M.O. Form 2373

SECRET

# THE DAILY WEATHER REPORT

BRITISH SECTION

## 1st October to 31st December

## 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. | | |
| 2 ... | 1 tenth. | 8 ... | 10 tenths. |
| 3 ... | 2, 3 tenths. | 9 ... | Sky obscured by fog, dust storm or other phenomenon. |
| 4 ... | 4, 5, 6 tenths. | | |
| 5 ... | 7, 8 tenths. | | |
| 6 ... | 9 tenths. | | |

**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 | 1½ 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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix ₀ indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
< , less than (for cloud height).
⸗ , gale.
⊕, Solar halo. ⊙, lunar halo. ⌓ Aurora.

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

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

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.

**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. | |

## 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.

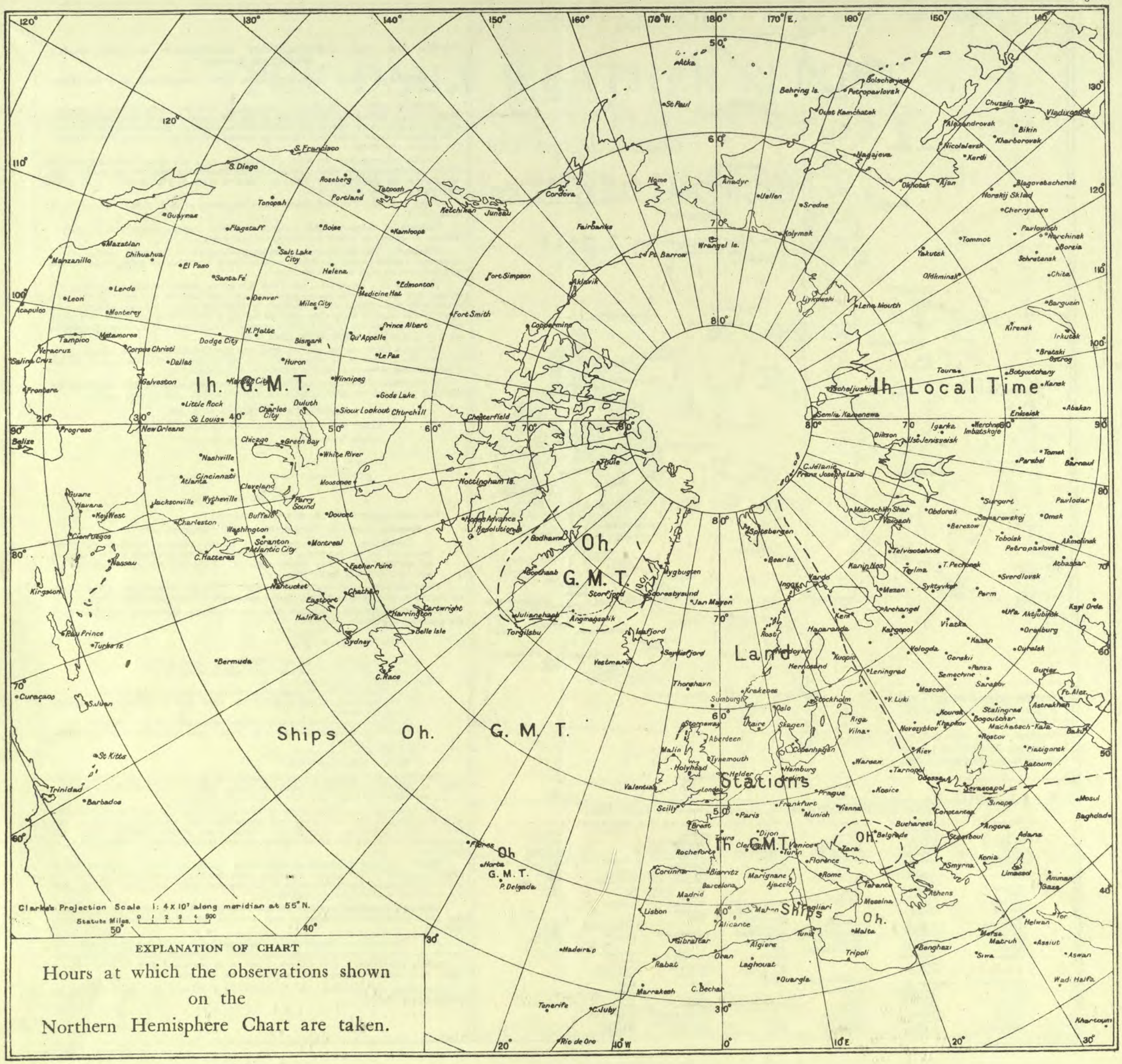
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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.


1h. G. M. T.
1h. Local Time
Ships Oh. G. M. T.
Oh. G. M. T.
Land Stations
Oh. 1h. G. M. T.
Oh. G. M. T.
Ships Oh.
Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.
Statute Miles.
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.

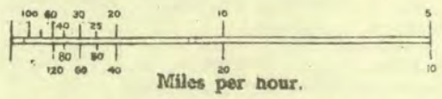
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

P. 427/44/7. Wt. 8143A. D. 2859. Gp. 940/3. 250. 2/45.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON

MONTHLY SUPPLEMENT,

October 1942 No. 310

### Mainly Fair and Mild.

Anticyclonic conditions prevailed over Southern England for most of the month whilst pressure was low to the north of the British Isles. On the 25th: a depression west of Ireland moved eastwards over England to Denmark and pressure remained low to the south and high to the north for the rest of the month.

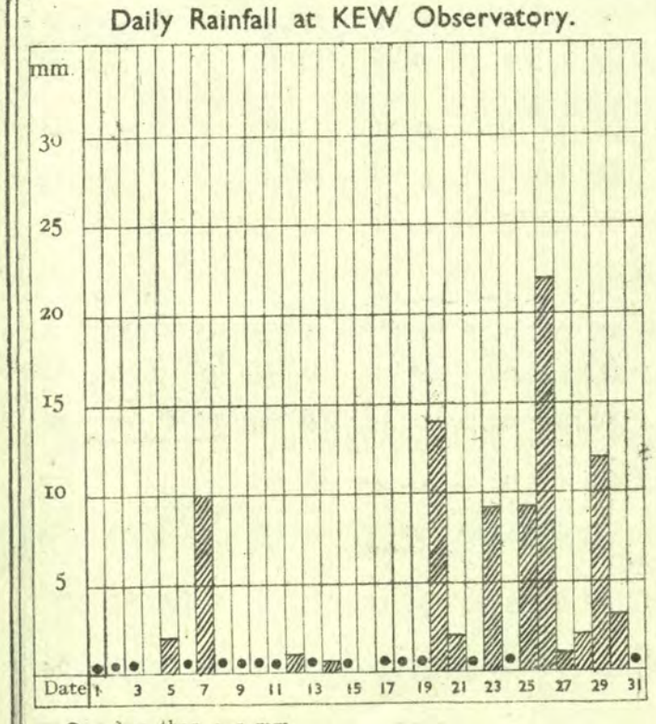
Winds reached gale force in many areas between the 7th: and 9th: and were renewed on the 21st: and 29th: Thunderstorms occurred in the East and Northeast of England during the month.

The first half of the month was mild. On the 2nd: a maximum temperature of 71°F was recorded at Croydon and 71°F at Manston and Shoeburyness on the 7th: By the 26th: a complex low pressure system to the north of the country brought cooler conditions, several stations in the North reporting minima below freezing, outstanding being Dalwhinnie falling to 23°F on the night of 27-28th: High night temperatures were recorded on the night of 22nd-23rd; (60°F at 0100 at Croydon, Kew, Thorney Island, Felixstowe, Gorleston). It was one of the warmest late October nights in the South on record, the previous record being at Kew, 58·6°F in 1898.

Persistent fog occurred in parts of the Midlands on the 31st: Sunshine records were below average, except for a few stations in Scotland and South Ireland, where the normal was exceeded slightly.

Rainfall amounts at some stations were above the average, notably in Scotland. Some heavy falls occurred, at Tynemouth 30 mm. during the night of 25-26th; and 26 mm. at Lizard during the day of the 29th:

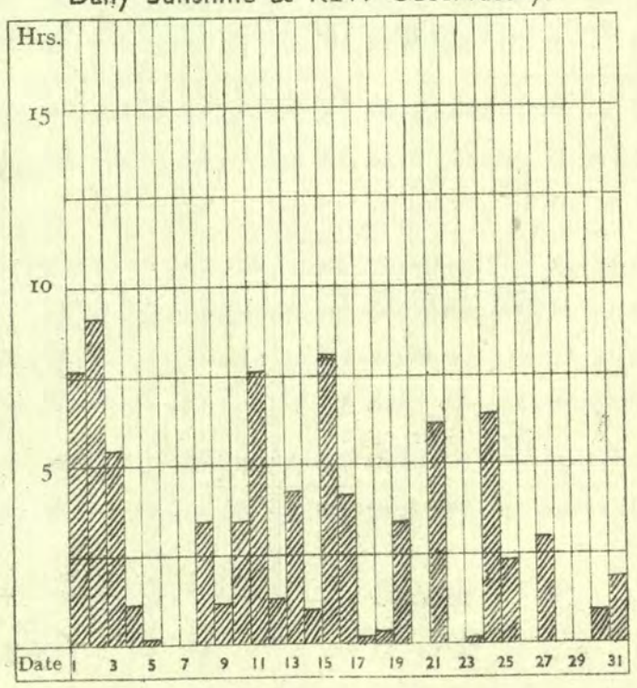
Daily Rainfall at KEW Observatory.




● = less than 0·5 mm.

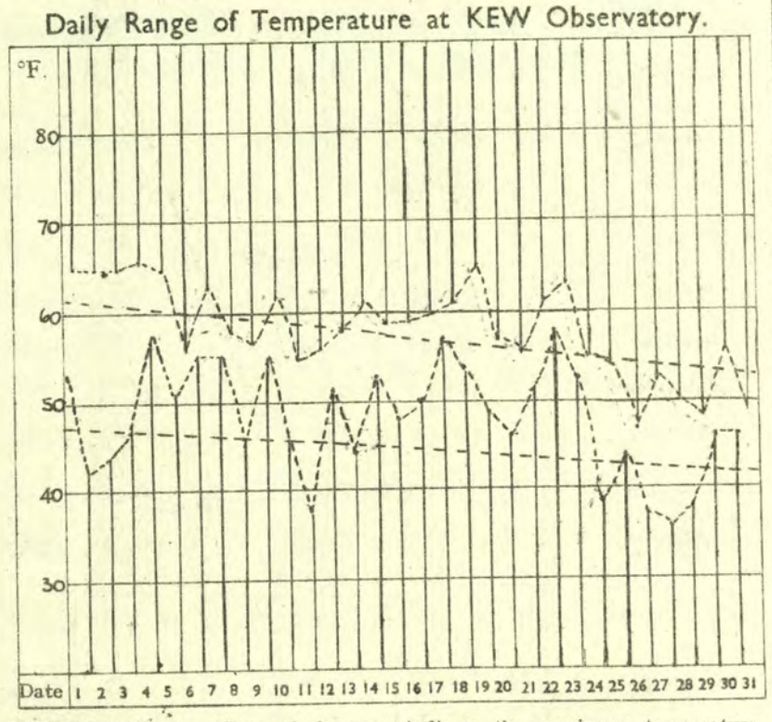
RAINFALL. Total for Month. 87 mm.

Daily Sunshine at KEW Observatory.




SUNSHINE. Total for Month. 83 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.

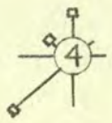
### MEAN VALUES FOR THE MONTH.*

| STATIONS. | PRESSURE Mean | PRESSURE Difference from average | TEMPERATURE Mean | TEMPERATURE Difference from average |
|---|---|---|---|---|
| | mb | mb. | °F. | °F. |
| Kew | 1014·1 | +0·1 | 53·1 | +1·5 |
| Aberdeen | 1006·3 | −4·7 | 48·6 | +0·8 |
| Valentia | 1014·2 | +1·6 | 51·1 | −1·6 |

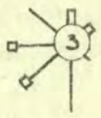
* Pressure—The mean is for the 24 hours. It is derived from values at 7 h. and 18 h. duly corrected.
Temperature—mean of Max. and Min.

### WIND FREQUENCIES at 7 hr.

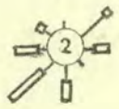
Kew




Aberdeen




Valentia




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 ... | 5421 |
| Aberdeen ... | 5243 |
| Lerwick ... | 16202 |
| Valentia ... | |

# SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

| District | Stations. | † Temperature. Number of daily readings within fixed limits. Maximum. 33°-41° | 42°-50° | 51°-59° | 60°-68° | 63°-77° | 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 | 4 | 14 | 13 | 0 | 57.5 | 0 | 5 | 13 | 13 | 0 | 45.7 | 66 | 4 | 47 | 26 | 58 | 23 | 36 | 28 | 6 | 6 | 21 | 0 | 0 | 28 | 0 | 1 | 25 | 1 | 0 | 4 | 4 | 1 | 11 | 0 | 0 | 1 | 2 | 17 |
| | Croydon ... | 0 | 3 | 14 | 12 | 2 | 57.0 | 0 | 5 | 14 | 12 | 0 | 45.1 | 71 | 2 | 47 | 29 | 57 | 5 | 36 | 27 | 0 | 10 | 14 | 1 | 5 | 25 | 1 | 9 | 17 | 0 | 0 | 1 | 6 | 2 | 4 | 0 | 0 | 3 | 3 | 13 |
| | Thorney Island | 0 | 1 | 14 | 15 | 1 | 57.8 | 0 | 5 | 13 | 13 | 0 | 47.4 | 69 | 3 | 50 | 29 | 58 | 23 | 33 | 27 | 2 | 6 | 21 | 0 | 2 | 28 | 1 | 3 | 23 | 1 | 1 | 1 | 1 | 0 | 24 | 0 | 0 | 2 | 0 | 23 |
| | Lympne ... | 0 | 0 | 19 | 11 | 1 | 56.5 | 0 | 6 | 13 | 12 | 0 | 45.4 | 69 | 7 | 51 | 28, 29, 31 | 57 | 23 | 37 | 25 | 2 | 11 | 11 | 3 | 8 | 21 | 0 | 6 | 11 | 3 | 0 | 5 | 2 | 0 | 17 | 0 | 0 | 0 | 1 | 22 |
| 2 | Shoeburyness... | 0 | 2 | 8 | 19 | 2 | 58.4 | 0 | 3 | 14 | 14 | 0 | 45.1 | 71 | 7 | 50 | 28, 29 | 59 | 23 | 38 | 28 | 3 | 5 | 15 | 1 | 2 | 25 | 1 | 2 | 23 | 1 | 0 | 1 | 2 | 1 | 11 | 0 | 0 | 2 | 0 | 21 |
| | Gorleston ... | 0 | 1 | 15 | 15 | 0 | 57.1 | 0 | 3 | 15 | 13 | 0 | 46.5 | 65 | 1, 4, 20 | 50 | 29 | 59 | 8 | 37 | 27 | 0 | 8 | 20 | 0 | 6 | 23 | 0 | 6 | 18 | 0 | 0 | 1 | 1 | 0 | 14 | 0 | 0 | 0 | 1 | 20 |
| | Cranwell ... | 0 | 5 | 11 | 15 | 0 | 56.1 | 1 | 13 | 9 | 8 | 0 | 43.0 | 66 | 4, 14 | 46 | 29 | 56 | 5 | 30 | 28 | 4 | 4 | 14 | 0 | 2 | 23 | 1 | 1 | 21 | 0 | 0 | 1 | 1 | 2 | 14 | 0 | 0 | 0 | 0 | 19 |
| 3 | Birmingham ... (Edgbaston) | 0 | 6 | 13 | 11 | 1 | 54.5 | 0 | 9 | 15 | 7 | 0 | 44.2 | 69 | 19 | 45 | 29, 30 | 56 | 5, 18 | 36 | 27, 28, 29 | 5 | 10 | 9 | 0 | 3 | 23 | 0 | 3 | 20 | 0 | 0 | 1 | 5 | 6 | 12 | 0 | 0 | 1 | 3 | 24 |
| 4 | Ross-on-Wye... | 0 | 6 | 10 | 14 | 1 | 56.7 | 1 | 8 | 14 | 8 | 0 | 44.2 | 70 | 19 | 45 | 26 | 58 | 23 | 30 | 28 | 4 | 7 | 20 | 0 | 3 | 25 | 0 | 2 | 25 | 0 | 0 | 1 | 6 | 0 | 18 | 0 | 0 | 1 | 2 | 24 |
| 5 | The Lizard ... | 0 | 0 | 23 | 8 | 0 | * | 0 | 0 | 18 | 13 | 0 | * | 62 | 1, 2 | 51 | 31 | 56 | 5, 23 | 44 | 28 | * | 7 | 24 | 0 | 3 | 28 | 0 | 7 | 24 | 0 | 0 | 2 | 2 | 2 | 24 | 0 | 0 | 1 | 0 | 25 |
| 7 | Holyhead ... (Valley) | 0 | 4 | 24 | 3 | 0 | 55.5 | 0 | 5 | 14 | 12 | 0 | 49.5 | 63 | 6 | 48 | 25 | 55 | 4, 5, 18 | 36 | 28 | 3 | 4 | 27 | 0 | 5 | 26 | 0 | 7 | 22 | 0 | 0 | 0 | 0 | 1 | 27 | 0 | 0 | 0 | 1 | 26 |
| 8 | Chester ... (Sealand) | 0 | 6 | 8 | 15 | 2 | 56.5 | 0 | 7 | 15 | 9 | 0 | 43.8 | 71 | 14, 19 | 47 | 31 | 58 | 18 | 34 | 29 | 6 | 1 | 27 | 0 | 0 | 28 | 1 | 1 | 24 | 0 | 0 | 1 | 1 | 2 | 12 | 0 | 0 | 0 | 1 | 17 |
| 10 | Tynemouth ... | 0 | 6 | 18 | 7 | 0 | 54.6 | 0 | 5 | 15 | 11 | 0 | 45.3 | 65 | 14 | 48 | 26, 31 | 58 | 8, 18 | 36 | 28 | 0 | 0 | 25 | 1 | 0 | 30 | 0 | 0 | 31 | 0 | 0 | 0 | 1 | 1 | 11 | 0 | 0 | 0 | 2 | 16 |
| 11 | Leuchars ... | 0 | 5 | 21 | 5 | 0 | 53.8 | 1 | 10 | 20 | 0 | 0 | 41.4 | 63 | 14 | 49 | 29, 30, 31 | 50 | 4, 19 | 32 | 31 | 6 | 4 | 23 | 1 | 4 | 27 | 0 | 3 | 27 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 1 | 23 |
| 12 | Renfrew ... | 0 | 8 | 21 | 2 | 0 | 53.6 | 2 | 4 | 18 | 7 | 0 | 41.9 | 63 | 14 | 48 | 23, 26, 28, 30, 31. | 55 | 18, 19 | 27 | 31 | 3 | 3 | 30 | 0 | 5 | 26 | 0 | 4 | 27 | 0 | 0 | 0 | 1 | 2 | 19 | 0 | 0 | 0 | 0 | 25 |
| | Eskdalemuir ... | 0 | 10 | 21 | 0 | 0 | 51.1 | 1 | 16 | 12 | 2 | 0 | 39.6 | 58 | 18 | 43 | 31 | 54 | 18 | 32 | 27 | 8 | 12 | 18 | 1 | 8 | 23 | 0 | 9 | 22 | 0 | 0 | 1 | 0 | 1 | 21 | 0 | 0 | 0 | 0 | 25 |
| 13B | Stornoway ... | 0 | 12 | 19 | 0 | 0 | 51.7 | 1 | 4 | 24 | 2 | 0 | 42.7 | 58 | 19 | 44 | 30 | 52 | 1 | 29 | 30 | * | 2 | 29 | 0 | 3 | 28 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 28 |
| 15 | Aberdeen ... | 0 | 7 | 22 | 2 | 0 | 53.0 | 0 | 10 | 21 | 0 | 0 | 42.6 | 63 | 14 | 46 | 30, 31 | 50 | 4, 20 | 34 | 28 | 3 | 6 | 22 | 1 | 3 | 26 | 0 | 2 | 23 | 1 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 1 | 0 | 24 |
| 18 | Aldergrove ... | 0 | 7 | 23 | 1 | 0 | 54.0 | 1 | 12 | 15 | 3 | 0 | 43.2 | 62 | 14 | 44 | 25 | 54 | 18 | 31 | 31 | 5 | 7 | 26 | 0 | 9 | 24 | 0 | 9 | 23 | 0 | 0 | 0 | 1 | 1 | 26 | 0 | 0 | 0 | 0 | 26 |
| 19 | Birr Castle ... | 0 | 6 | 20 | 5 | 0 | 55.8 | 4 | 8 | 15 | 4 | 0 | 43.7 | 67 | 14 | 46 | 28 | 56 | 22 | 28 | 26 | 6 | 4 | 24 | 0 | 3 | 26 | 0 | 7 | 21 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 31 |
| 20 | Valentia ... (Cahirciveen) | 0 | 7 | 22 | 2 | 0 | 56.5 | 0 | 7 | 11 | 13 | 0 | 48.8 | 61 | 19 | 47 | 31 | 56 | 21 | 33 | 26 | 3 | 6 | 24 | 0 | 7 | 23 | 0 | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 24 |

## 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 | 1760 | 46.6 | 47.3 | 61 | 44.4 | 62 | 43.8 | 31 |
| 850 | 4740 | 37.9 | 40.3 | 62 | 36.5 | 62 | 44.2 | 31 |
| 750 | 8040 | 30.1 | 31.8 | 62 | 29.4 | 62 | 39.0 | 31 |
| 650 | 11750 | 19.4 | 20.9 | 62 | 17.7 | 62 | 24.4 | 31 |
| 550 | 15980 | 5.7 | 5.4 | 62 | 3.2 | 62 | 10.2 | 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 | Station. Height. Metres. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kilometres per hour. | | | | | | kilometres per hour. | | | | | | kilometres per hour. | | | | | | kilometres per hour. | | | | | |
| 500 above ground | 38 | 13 | 14 | 8 | 1 | 0 | 38 | 16 | 20 | 2 | 0 | 0 | 17 | 9 | 5 | 1 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 500 above ground. |
| 1000 above M.S.L. | 33 | 11 | 13 | 7 | 1 | 0 | 23 | 9 | 9 | 4 | 0 | 0 | 7 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 above M.S.L. |
| 2000 ,, ,, | 21 | 6 | 7 | 6 | 1 | 0 | 3 | 3 | 4 | 2 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2000 ,, ,, |
| 3000 ,, ,, | 9 | 4 | 2 | 3 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3000 ,, ,, |
| 4000 ,, ,, | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4000 ,, ,, |

† 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 October 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). | 7 | 12 | 6 | 5 | 1 | 9.1 | 2 | 1398 | -71 | 83 | -13 | 1880 | 153 | 1921 | 50 | 1894 | 16 | 5 | 4 | 5 | 1 | 0 | 22 | 26 | 570 | -36 | 87 | +18 | 1856 | 156 | 1865 | 11 | 1921 | 1 | 0 |
| | Croydon | 5 | 13 | 7 | 5 | 1 | 9.7 | 2 | 1520 | -5 | 89 | -15 | 1922 | 184 | 1921 | 75 | 1934 | 17 | 2 | 8 | 2 | 1 | 1 | 28 | 26 | 694 | +15 | 105 | +29 | 1921 | 154 | 1939 | 17 | 1921 | 0 | 0 |
| | Thorney Island** | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 14 | 8 | 4 | 3 | 2 | 0 | 19 | 26 | 633 | -60 | 82 | -10 | 1881 | 201 | 1903 | 10 | 1897 | 2 | 0 |
| | Lympne | 7 | 13 | 5 | 5 | 1 | 9.5 | 2 | 1703 | -62 | 79 | -40 | 1921 | 184 | 1921 | 76 | 1934 | 9 | 11 | 3 | 7 | 1 | 0 | 18 | 26 | 635 | -109 | 87 | -12 | 1920 | 276 | 1939 | 7 | 1921 | 0 | 0 |
| 2 | Shoeburyness | 4 | 17 | 4 | 6 | 0 | 8.5 | 11 | 1569 | -147 | 84 | -35 | 1919 | 191 | 1920 | 77 | 1934 | 15 | 5 | 4 | 7 | 0 | 0 | 15 | 30 | 533 | +30 | 83 | +23 | 1920 | 173 | 1939 | 12 | 1931 | 0 | 0 |
| | Gorleston | 3 | 13 | 9 | 5 | 0 | 9.0 | 6 | * | * | 84 | -31 | 1908 | 183 | 1920 | 71 | 1932 | 13 | 7 | 5 | 4 | 1 | 1 | 26 | 30 | 566 | -56 | 107 | +33 | 1871 | 219 | 1892 | 7 | 1920 | 1 | 0 |
| | | * No record for 21st. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cranwell | 6 | 11 | 7 | 6 | 1 | 9.6 | 6 | 1528 | -10 | 95 | -19 | 1921 | 160 | 1931 | 75 | 1937 | 16 | 3 | 8 | 4 | 0 | 0 | 11 | 20 | 561 | -29 | 55 | -18 | 1917 | 114 | 1924 | 14 | 1931 | 0 | 0 |
| 3 | Birmingham (Edgbaston) | 7 | 11 | 8 | 4 | 1 | 9.3 | 6 | 1286 | -18 | 90 | -1 | 1887 | 149 | 1921 | 27 | 1894 | 12 | 6 | 9 | 3 | 1 | 0 | 17 | 25 | 695 | +21 | 71 | 0 | 1893 | 166 | 1903 | 12 | 1922 | 1 | 0 |
| 4 | Ross-on-Wye | 3 | 17 | 3 | 7 | 1 | 10.0 | 1 | 1431 | -54 | 93 | -6 | 1915 | 156 | 1919 | 37 | 1915 | 18 | 7 | 3 | 3 | 0 | 0 | 10 | 25 | 595 | -122 | 39 | -45 | 1859 | 216 | 1907 | 14 | 1904, 1922 | 0 | 0 |
| 5 | Falmouth (Observatory) | 8 | 10 | 6 | 4 | 3 | 8.9 | 1 | 1622 | -88 | 96 | -17 | 1881 | 159 | 1919 | 81 | 1886, 1924 | 10 | 6 | 11 | 3 | 1 | 0 | 15 | 23 | 970 | -137 | 78 | -48 | 1871 | 274 | 1924 | 18 | 1931 | 2 | 0 |
| 7 | Holyhead (Valley) | * | * | * | * | * | * | * | * | * | * | * | 1914 | 128 | 1922, 1931 | 61 | 1916 | 12 | 5 | 10 | 3 | 0 | 1 | 44 | 25 | 859 | -28 | 106 | +5 | 1871 | 265 | 1872 | 37 | 1879 | 0 | 0 |
| 8 | Chester (Sealand) | 7 | 12 | 6 | 6 | 0 | 8.0 | 6 | 1394 | +18 | 83 | -8 | 1923 | 127 | 1931 | 68 | 1940 | 15 | 5 | 8 | 3 | 0 | 0 | 13 | 20 | 604 | -34 | 56 | -18 | 1922 | 121 | 1932 | 11 | 1922 | 0 | 0 |
| 10 | Tynemouth | * | * | * | * | * | * | * | * | * | * | * | 1935 | * | * | * | * | 15 | 8 | 5 | 2 | 0 | 1 | 30 | 25 | 531 | -30 | 58 | -18 | 1915 | 144 | 1939 | 31 | 1922 | 4 | 0 |
| 11 | Leuchers | 5 | 9 | 7 | 9 | 1 | 9.2 | 5 | 1537 | +67 | 120 | +14 | 1922 | 139 | 1926 | 63 | 1940 | 12 | 11 | 4 | 4 | 0 | 0 | 12 | 28 | 619 | -34 | 45 | -21 | 1922 | 158 | 1932 | 25 | 1931 | 0 | 0 |
| 12 | Renfrew | 6 | 15 | 9 | 1 | 0 | 7.5 | 5 | 1142 | -51 | 60 | -18 | 1921 | 102 | 1923 | 30 | 1940 | 8 | 4 | 11 | 6 | 1 | 1 | 26 | 9 | 1016 | +77 | 124 | +37 | 1921 | 211 | 1935 | 51 | 1922 | 0 | 0 |
| | Eskdalemuir | 11 | 11 | 6 | 3 | 0 | 8.5 | 5 | 1248 | +47 | 62 | -21 | 1910 | 119 | 1931 | 48 | 1940 | 7 | 5 | 6 | 11 | 1 | 1 | 30 | 9 | 1456 | +27 | 170 | +33 | 1910 | 300 | 1928 | 46 | 1914 | 0 | 0 |
| 13B | Stornoway | 8 | 13 | 8 | 2 | 0 | 6.2 | 5 | 1119 | -96 | 62 | -15 | 1881 | 135 | 1898 | 34 | 1921 | 1 | 3 | 16 | 10 | 1 | 0 | 17 | 3 | 1091 | -110 | 150 | +25 | 1870 | 259 | 1874 | 47 | 1915 | 0 | 2 |
| 15 | Aberdeen | 8 | 7 | 10 | 5 | 1 | 9.1 | 15 | 1263 | -66 | 95 | +1 | 1881 | 139 | 1923 | 47 | 1886 | 11 | 8 | 7 | 3 | 2 | 0 | 20 | 17 | 777 | +29 | 98 | +22 | 1871 | 169 | 1932 | 18 | 1899 | 1 | 0 |
| 18 | Aldergrove | 9 | 11 | 6 | 5 | 0 | 8.5 | 31 | 1260 | -66 | 68 | -17 | 1927 | 117 | 1939 | 54 | 1940 | 7 | 5 | 12 | 6 | 1 | 0 | 19 | 26 | 994 | +156 | 95 | +19 | 1926 | 146 | 1938 | 51 | 1939 | 0 | 0 |
| 19 | Birr Castle | 7 | 11 | 10 | 3 | 0 | 7.2 | 6 | * | * | 79 | -11 | 1881 | 138 | 1899 | 45 | 1916 | 12 | 7 | 7 | 5 | 0 | 0 | 15 | 21 | * | * | 63 | -11 | 1862 | 185 | 1870, 1938 | 16 | 1869 | 0 | 0 |
| 20 | Valentia (Cahirciveen) | 9 | 8 | 7 | 7 | 0 | 8.7 | 6 | * | * | 97 | +7 | 1880 | 166 | 1880 | 50 | 1916 | 11 | 5 | 10 | 5 | 0 | 0 | 11 | 19 | * | * | 77 | -65 | 1866 | 272 | 1916 | 51 | 1905 | 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 | 8 | 6 | 7 | 7 | 3 | 0 | 0 | 0 |
| Ross-on-Wye | 0 | 1 | 4 | 10 | 9 | 4 | 3 | 0 | 0 | 0 |
| Falmouth (Obsy.) | 3 | 6 | 6 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| Renfrew | 0 | 0 | 4 | 12 | 9 | 5 | 1 | 0 | 0 | 0 |
| Eskdalemuir | 0 | 1 | 7 | 4 | 15 | 3 | 1 | 0 | 0 | 0 |
| Aberdeen | 2 | 0 | 2 | 2 | 10 | 9 | 4 | 2 | 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) | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ross-on-Wye | 8 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Renfrew | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Eskdalemuir | 2 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aberdeen | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Valentia | | | | | | | | | | |

**CODE for State of Ground.**

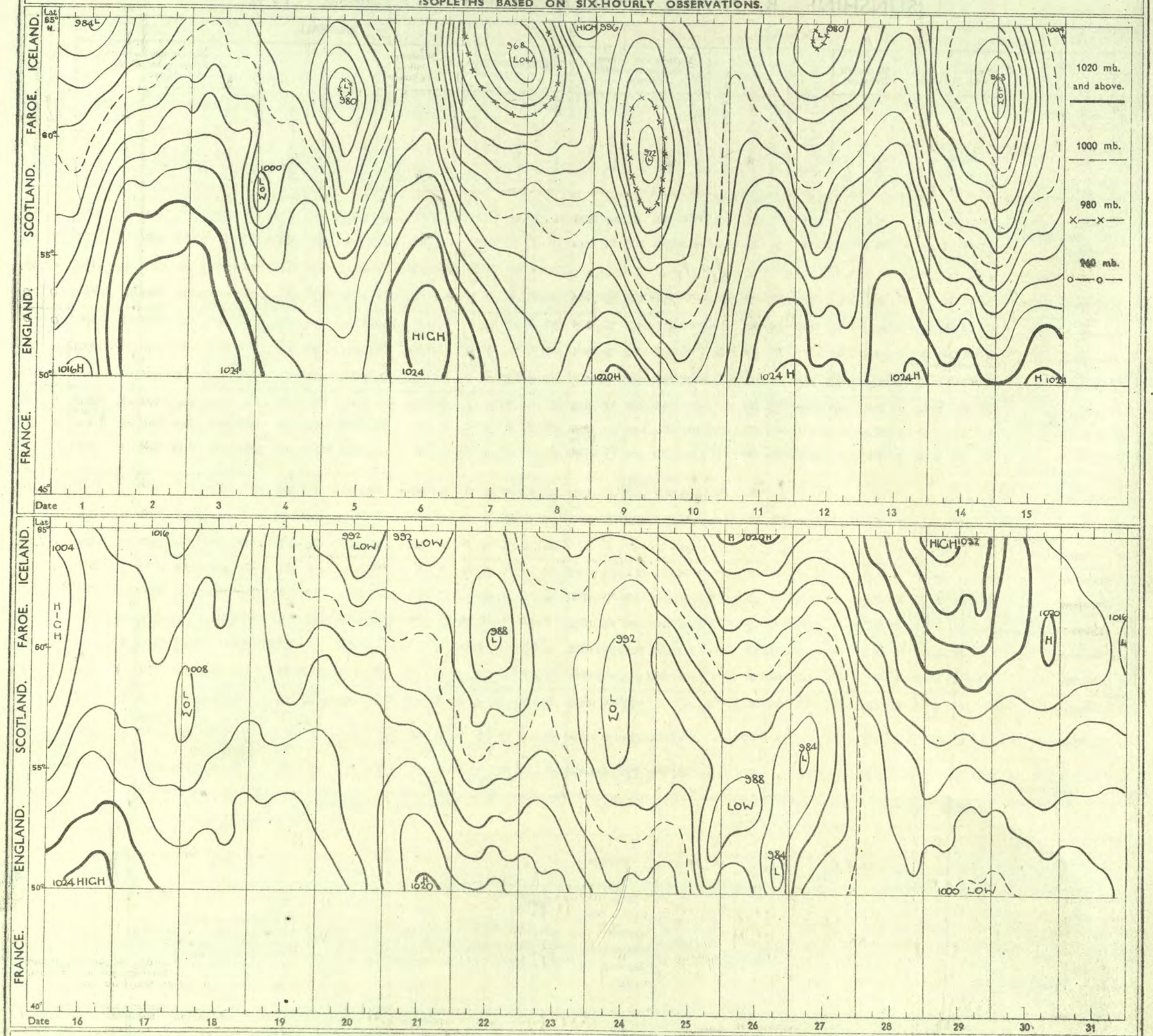
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen.
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6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

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

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

# PRESSURE: ICELAND TO GULF OF LIONS ..... October 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.

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

BRITISH SECTION

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

SECRET

Thursday 1st October 1942

No. 29533

## OBSERVATIONS at 13h. G.M.T. 30th September

| 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) | 11·9 | +10 | S'E | 2 | Zo | 58 | 85 | 52 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Croydon ... | 12·1 | +10 | ESE | 2 | Zo | 57 | 85 | 53 | 6 | 5 | 7 | - | 4-6 | 9+ | 3000 |
| | S. Farnborough | 11·4 | +10 | SE'S | 3 | c | 59 | 75 | 52 | 8 | 8 | 7 | 2 | 4-6 | 9 | 3500 |
| | Boscombe Down | 10·3 | +6 | S'W | 4 | c-bc | 61 | 65 | 50 | 8 | 2 | 6 | 6 | 4-6 | 7-8 | 2000 |
| | Thorney Island | 11·1 | +10 | SE'S | 3 | c-bc | 63 | 65 | 52 | 9 | 1 | - | 8 | 2-3 | 7-8 | 4000 |
| | Lympne ... | 12·4 | +12 | SE | 1 | c | 57 | 85 | 53 | 8 | 2 | 4 | - | 7-8 | 10 | 3000 |
| | Manston ... | 12·3 | +12 | - | 0 | c | 57 | 88 | 53 | 8 | 8 | 7 | 6 | 7-8 | 9+ | 1200 |
| 2 | Shoeburyness ... | 13·0 | +14 | SE | 2 | c | 57 | 85 | 53 | 8 | 5 | 2 | - | 4-6 | 9 | 2500 |
| | Felixstowe ... | 12·5 | +18 | SE | 1 | c | 57 | 75 | 50 | 8 | 5 | 7 | - | 4-6 | 9+ | 3500 |
| | Gorleston ... | 12·4 | +30 | NW'W | 2 | c | 56 | 85 | 52 | 7 | 5 | 7 | - | 4-6 | 4-6 | 2000 |
| | Mildenhall ... | 12·0 | +10 | SSE | 3 | bc | 57 | 75 | 50 | 8 | 1 | 3 | 8 | 2-3 | 9 | 2000 |
| | Cranwell ... | 10·9 | +6 | SSE | 3 | c | 56 | 75 | 50 | 7 | 8 | - | 2 | 7-8 | 9 | 2000 |
| 3 | Birmingham ... | 09·4 | +4 | SE | 3 | c-bc | 59 | 75 | 50 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| | Upper Heyford | 10·1 | +10 | S | 2 | c | 58 | 75 | 50 | 7 | 2 | 3 | 6 | 7-8 | 9 | 2600 |
| 4 | Ross-on-Wye | 08·6 | 0 | S | 3 | bc | 62 | 65 | 49 | 8 | 2 | 6 | - | 4-6 | 4-6 | 3500 |
| 5 | Hartland Point | 06·2 | +6 | S | 3 | bc | 60 | 65 | 46 | 9 | 2 | 6 | 4 | 4-6 | 4-6 | 2000 |
| | Bristol ... | 09·8 | +6 | SSE | 3 | pr | 59 | 75 | 50 | 8 | 8 | 6 | - | 7-8 | 7-8 | 2500 |
| | Portland Bill ... | 09·1 | +22 | S | 4 | c | 50 | 92 | 47 | 8 | 2 | - | - | 9 | 9 | 4000 |
| | Plymouth ... | 08·3 | +10 | S | 3 | bc | 62 | 75 | 55 | 8 | 2 | 6 | - | 4-6 | 4-6 | 3000 |
| | The Lizard ... | 06·7 | +12 | S'W | 4 | bc | 57 | 85 | 53 | 8 | 8 | 4 | - | 4-6 | 4-6 | 2500 |
| | Scilly (St. Mary's) | 05·5 | +12 | S'W | 4 | c-bc | 54 | 65 | 48 | 8 | 8 | 6 | 3 | 4-6 | 7-8 | 1500 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 05·2 | +6 | SSE | 7 | c/pr | 58 | 75 | 47 | 8 | 8 | 4 | - | 7-8 | 9 | 2500 |
| 7 | Holyhead (Valley) | 06·0 | 0 | SE | 5 | bc | 61 | 55 | 48 | 9 | 8 | 6 | 3 | 2-3 | 4-6 | 2500 |
| | Chester (Sealand) | 08·0 | -12 | SE | 3 | c-bc | 61 | 65 | 50 | 6 | 8 | - | - | 7-8 | 7-8 | 3500 |
| 8 | Manchester ... | 09·0 | 0 | SE | 4 | Zo | 60 | 65 | 47 | 6 | 2 | 6 | - | 2-3 | 2-3 | 3000 |
| 10 | Spurn Head ... | 11·2 | +6 | S'E | 2 | c | 58 | 85 | 52 | 7 | 2 | 3 | 1 | 4-6 | 4-6 | 2500 |
| | Catterick ... | 10·0 | 0 | S'E | 1 | Zo | 55 | 85 | 49 | 5 | 2 | 6 | 2 | 1 | 4-6 | 2500 |
| | Tynemouth ... | 10·5 | +2 | S | 3 | c/f | 52 | 97 | 51 | 4 | - | 2 | - | 10 | 10 | 1800 |
| 11 | St. Abbs Head | 09·0 | -8 | S | 3 | ir | 50 | 92 | 48 | 7 | 5 | - | - | 9+ | 9+ | 2000 |
| | Leuchars ... | 08·1 | -12 | SSE | 1 | c/f | 53 | 85 | 50 | 6 | 5 | 7 | - | 9 | 10 | 2000 |
| 12 | Renfrew (Abbots I.) | 07·7 | -12 | ESE | 2 | Zo | 58 | 65 | 45 | 5 | 8 | 1 | - | 2-3 | 9+ | 3000 |
| | Eskdalemuir ... | 08·0 | -12 | S'E | 1 | c | 53 | 75 | 48 | 8 | 5 | 7 | - | 7-8 | 9 | 2800 |
| | Point of Ayre ... | 06·6 | -6 | S'E | 6 | bc | 61 | 75 | 52 | 7 | 2 | - | - | 1 | 1 | 2500 |
| 13A | Tiree ... ... | 05·8 | -8 | SE | 3 | b-bc | 58 | 75 | 51 | 8 | 1 | - | 5 | 1 | 2-3 | 3500 |
| 13B | Stornoway ... | 06·3 | -14 | SE | 1 | c-bc | 57 | 85 | 53 | 8 | 2 | 4 | 8 | 1 | 7-8 | 3000 |
| 15 | Dalwhinnie ... | 07·6 | -2 | SSE | 3 | o | 51 | 75 | 42 | 8 | 5 | 7 | - | 2-3 | 10 | 2500 |
| | Aberdeen ... | 08·7 | -14 | SSW | 1 | ir | 53 | 85 | 50 | 4 | 6 | 2 | - | 7-8 | 10 | 900 |
| | Wick ... | 09·4 | -6 | SE | 3 | ir | 55 | 92 | 51 | 5 | 5 | - | - | 10 | 10 | 300 |
| 16 | Sumburgh ... | 11·8 | -8 | SE | 4 | c | 55 | 88 | 53 | 7 | 5 | 1 | - | 9 | 10 | 700 |
| 17 | Blacksod Point | 00·8 | -8 | E | 3 | c | 55 | 85 | 51 | 8 | 5 | - | - | 9 | 10 | 2500 |
| 18 | Malin Head ... | 03·3 | -14 | SE | 4 | b-bc | 58 | 65 | 46 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 |
| | Aldergrove ... | 05·0 | -8 | SE | 4 | c-bc/pr | 57 | 75 | 49 | 8 | 8 | 3 | - | 4-6 | 7-8 | 2500 |
| 19 | Birr Castle ... | 99·6 | +6 | SSE | 3 | c | 55 | 75 | 48 | 7 | 9 | 2 | - | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 01·4 | +10 | W'N | 2 | ir | 54 | 92 | 52 | 8 | 6 | - | - | 10 | 10 | 2500 |
| | Roches Point | 00·9 | +10 | WSW | 3 | c-bc | 56 | 85 | 52 | 8 | 8 | - | 5 | 4-6 | 7-8 | 1500 |

## OBSERVATIONS at 18h. G.M.T. 30th September

| District | Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | Dew Point. °F. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 12·9 | +12 | SE | 2 | Zo | 57 | 85 | 51 | 6 | 5 | - | 8 | 4-6 | 9+ | 2500 | 1 | * |
| | Croydon ... | 13·2 | +10 | ESE | 2 | Zo | 55 | 92 | 53 | 6 | 2 | 7 | 6 | Tr | 9 | 3000 | 1 | * |
| | S. Farnborough | 12·5 | +10 | ESE | 1 | c | 56 | 85 | 51 | 7 | 8 | 7 | - | 2-3 | 9+ | 3500 | 1 | * |
| | Boscombe Down | 12·4 | +18 | SE'S | 3 | c | 54 | 92 | 51 | 8 | 4 | 7 | - | 1 | 9 | 2500 | 0 | * |
| | Thorney Island | 12·1 | +6 | SE | 2 | c | 57 | 85 | 51 | 9 | 8 | 4* | 8 | 1 | 9+ | 2500 | 0 | * |
| | Lympne ... | 13·5 | +6 | SSE | 1 | c/f | 57 | 92 | 55 | 8 | 4 | - | 9 | 7-8 | 9 | 5000 | 1 | * |
| | Manston ... | 13·8 | +10 | ESE | 2 | c-bc | 57 | 85 | 53 | 8 | 5 | - | - | 7-8 | 7-8 | 1800 | 1 | § |
| 2 | Shoeburyness ... | 13·9 | +8 | SE | 3 | c | 58 | 85 | 54 | 8 | 5 | - | - | 9 | 9 | 4500 | 1 | * |
| | Felixstowe ... | 13·5 | +8 | ESE | 2 | c | 58 | 85 | 53 | 7 | 5 | 7 | - | 4-6 | 9+ | 3500 | 1 | 1 |
| | Gorleston ... | 14·5 | +14 | S | 3 | c | 56 | 92 | 53 | 7 | 5 | 7 | - | 4-6 | 9+ | 1800 | 1 | |
| | Mildenhall ... | 13·6 | +12 | SE | 3 | c | 55 | 92 | 52 | 8 | 5 | 3 | 8 | 2-3 | 9+ | 3500 | 1 | * |
| | Cranwell ... | 12·4 | +14 | SE | 4 | c | 55 | 85 | 50 | 6 | - | 1 | - | 0 | 9 | - | 0 | * |
| 3 | Birmingham ... | 11·0 | +18 | SSE | 3 | bc | 58 | 65 | 46 | 8 | 8 | 7 | - | 4-6 | 4-6 | 1500 | 1 | * |
| | Upper Heyford | 11·6 | +12 | SE | 2 | c | 56 | 85 | 50 | 8 | 2 | 1 | - | Tr | 9 | 2500 | 1 | * |
| 4 | Ross-on-Wye | 10·5 | +14 | S | 2 | bc | 56 | 85 | 50 | 8 | 8 | - | 3 | 1 | 1 | 3500 | 1 | * |
| 5 | Hartland Point | 08·6 | +20 | S | 3 | c-bc | 55 | 92 | 53 | 8 | 2 | 4 | 6 | 1 | 7-8 | 2000 | 1 | 4 |
| | Bristol ... | 11·6 | +18 | S | 4 | bc | 56 | 85 | 52 | 8 | 1 | 7 | - | Tr | 4-6 | 2500 | 1 | * |
| | Portland Bill ... | 11·1 | +22 | S | 4 | c | 58 | 92 | 56 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 4 |
| | Plymouth ... | 10·2 | +14 | S | 4 | bc | 57 | 85 | 54 | 8 | 2 | 4 | 3 | 2-3 | 4-6 | 2800 | 0 | 3 |
| | The Lizard ... | 09·2 | +20 | S | 4 | c-bc | 57 | 92 | 54 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1200 | 1 | 4 |
| | Scilly (St. Mary's) | 07·8 | +20 | S'W | 4 | c | 55 | 75 | 49 | 8 | 8 | 7 | - | 4-6 | 9 | 1200 | 1 | 4 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 06·7 | +12 | S'W | 6 | c/pr | 57 | 75 | 48 | 7 | 8 | 2 | - | 9 | 10 | 2500 | 1 | 5 |
| 7 | Holyhead (Valley) | 06·6 | +12 | ENE | 5 | pr | 55 | 85 | 51 | 5 | 9 | - | - | 10 | 10 | 600 | 1 | 4 |
| | Chester (Sealand) | 09·0 | +12 | E'S | 2 | bc | 57 | 75 | 49 | 8 | 8 | 4 | - | 2-3 | 4-6 | 4000 | 0 | * |
| 8 | Manchester ... | 10·1 | +14 | SE'E | 3 | bc | 57 | 75 | 48 | 7 | 4 | 6 | 8 | 2-3 | 4-6 | 4000 | 0 | * |
| 10 | Spurn Head ... | 12·5 | +4 | SE | 4 | c-bc | 55 | 85 | 51 | 8 | 7 | 3 | - | 4-6 | 7-8 | 4000 | 1 | 3 |
| | Catterick ... | 11·2 | +10 | SE | 2 | b | 53 | 85 | 49 | 7 | - | 3 | - | 0 | 1 | - | 0 | * |
| | Tynemouth ... | 11·4 | -12 | S | 3 | Zo | 57 | 85 | 50 | 5 | - | 3 | - | 0 | 2-3 | - | 1 | 3 |
| 11 | St. Abbs Head | 08·7 | +6 | ESE | 3 | m | 52 | 97 | 51 | 4 | 5 | - | - | 7-8 | 7-8 | 3500 | 1 | 2 |
| | Leuchars ... | 08·4 | +6 | - | 0 | b-bc | 51 | 85 | 47 | 6 | 5 | - | 8 | 2-3 | 2-3 | 3500 | 1 | * |
| 12 | Renfrew (Abbots I.) | 07·4 | +8 | SE'E | 2 | Zo | 56 | 75 | 47 | 5 | 5 | 4 | 2 | 2-3 | 4-6 | 3500 | 1 | * |
| | Eskdalemuir ... | 08·5 | +14 | - | 0 | b-bc | 51 | 85 | 46 | 6 | 5 | 4 | 1 | 1 | 2-3 | 2800 | 1 | * |
| | Point of Ayre ... | 06·9 | +8 | SW'S | 4 | c/pr | 54 | 92 | 52 | 8 | 9 | - | - | 9+ | 9+ | 2500 | 1 | 4 |
| 13A | Tiree ... ... | 04·9 | 0 | SSE | 3 | b-bc | 55 | 85 | 50 | 8 | 7 | 3 | 3 | Tr | 2-3 | 3500 | 0 | 4 |
| 13B | Stornoway ... | 05·1 | +2 | SW | 1 | c | 56 | 75 | 48 | 8 | 1 | 9 | - | Tr | 9+ | 3500 | 1 | 1 |
| 15 | Dalwhinnie ... | 06·8 | +2 | SSW | 3 | c-bc | 49 | 85 | 45 | 8 | 7 | - | - | 7-8 | 7-8 | 2500 | 0 | * |
| | Aberdeen ... | 05·6 | +4 | SW'S | 3 | b-bc | 48 | 85 | 44 | 6 | 5 | - | - | 1 | 2-3 | 400 | 1 | 3 |
| | Wick ... | 06·4 | -14 | SSW | 1 | ++ | 50 | 92 | 49 | 6 | 5 | 2 | - | 9+ | 10 | 600 | 1 | * |
| 16 | Sumburgh ... | 06·5 | -36 | ESE | 5 | dd | 53 | 97 | 52 | 6 | 5 | 2 | - | 7-8 | 10 | 800 | 1 | 3 |
| 17 | Blacksod Point | 01·5 | +10 | W | 1 | c | 54 | 92 | 52 | 8 | 5 | 3 | - | 7-8 | 9 | 2500 | 1 | 1 |
| 18 | Malin Head ... | 03·1 | +2 | SSE | 4 | c-bc | 55 | 65 | 44 | 8 | 4 | - | - | 7-8 | 7-8 | 2500 | 1 | 3 |
| | Aldergrove ... | 04·4 | +2 | SE | 3 | c | 52 | 85 | 48 | 7 | 5 | 4 | 8 | 7-8 | 9+ | 2000 | 1 | * |
| 19 | Birr Castle ... | 01·5 | +18 | SSW | 2 | c | 54 | 85 | 50 | 8 | 9 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| 20 | Valentia Obsy. | 04·8 | +28 | W'N | 3 | c | 54 | 85 | 50 | 8 | 9 | 7 | - | 7-8 | 10 | 1500 | 1 | 3 |
| | Roches Point | 03·4 | +22 | SW'W | 3 | bc | 57 | 85 | 52 | 8 | 3 | 3 | - | 2-3 | 4-6 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| District | Stations | Weather 7h.—13h. 30th (39) | Weather 13h.—18h. 30th (40) | Weather 18h. 30th to 1h. 1st (41) | Weather 1h.—7h. 1st (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | cr₀rcm₀ | cm₀ | cmm₀ | cir₀cm₀ |
| | Croydon ... | cid₀m₀ | cm₀ccm₀ | cmm₀r₀r₀ | r₀r₀m₀cm₀ |
| | S. Farnborough | cm₀r₀r₀bcc | c | cid₀m₀ | cm₀bc |
| | Boscombe Down | bc | bcc | c₀cm₀w | cm₀w₀f₀g |
| | Thorney Island | cr₀r₀m₀cir₀cm₀ | bcc | cd₀d₀r₀r₀ | crr₀fg |
| | Lympne ... | cr₀r₀m₀c | c | ccm₀r | cm₀m |
| | Manston ... | crd₀d₀m₀ | c | cm₀r₀ | r₀r₀RR |
| 2 | Shoeburyness ... | cr₀r₀d₀m₀c | c | | r₀r₀m₀c |
| | Felixstowe ... | r₀r₀m₀cddmc | cr₀r₀m₀cyc | cbccm₀ | cm₀r₀r₀ir₀ |
| | Gorleston ... | cir₀c | bcc | cm₀ | r₀r₀r₀ |
| | Mildenhall ... | cir₀,c | c | cm₀pm₀ | m₀m₀ir₀cm |
| | Cranwell ... | c-br₀mc | c | cm₀ | cm₀cmcff |
| 3 | Birmingham ... | cp₀rbc | bc | bc | bc |
| | Upper Heyford | cir₀m₀bc | c | cm₀ | cm₀f₀f |
| 4 | Ross-on-Wye | bbcpbc | p₀cbc | bbc | cbcbw |
| 5 | Hartland Point | cbcr | bccr | cbcl | bccbc |
| | Bristol ... | bbccpr₀ | pr₀cbc | bcc | bcpr₀g |
| | Portland Bill ... | c | c | c | c |
| | Plymouth ... | bc | bc | bcbwm₀ | bm₀wFb |
| | The Lizard ... | bcpr₀ | bcc | bcw | bcw |
| | Scilly (St. Mary's) | crr₀c | c | cbc | bcw |
| | Guernsey ... | | | | |
| 6 | Pembroke ... | cqpr | cpr₀q | cpr₀bc | cbc |
| 7 | Holyhead (Valley) | bcvy | cpr | crrirm₀ | cpr₀ |
| | Chester (Sealand) | cz₀ | bcz₀c | bcm₀cm₀ | cr₀r₀cm₀ |
| 8 | Manchester ... | bcz₀ | bcz₀bc | bc | cir₀m₀ |
| 10 | Spurn Head ... | cr₀c | bc | c | cm₀ |
| | Catterick ... | ofcfcm | bcm₀b | cm₀ | cir₀bcf |
| | Tynemouth ... | or₀rom | bcm₀ | bcm₀c | cpm₀ |
| 11 | St. Abbs Head | cm₀irc | cir₀m₀bc | cm₀bc | bccbcm₀ |
| | Leuchars ... | cir₀m₀ | cm₀ccm₀ | m₀cbbc | cpr₀m₀m₀ |
| 12 | Renfrew (Abbots I.) | cmz₀ | bczy | cir₀bc | cm₀bcm |
| | Eskdalemuir ... | c | cbcz₀ | bcbpr₀c | pr₀pre |
| | Point of Ayre ... | b | cPRq | pirrc | bbcc |
| 13A | Tiree ... ... | bc | bcbbc | cprc | cbc |
| 13B | Stornoway ... | c | c | c | cpr₀ |
| 15 | Dalwhinnie ... | oco | oc | | cir |
| | Aberdeen ... | comir₀ | ++cbcbm₀ | bcir₀cm₀ | cm₀ |
| | Wick ... | cm₀ir₀ | crrm₀ | cbbc | bc |
| 16 | Sumburgh ... | c | cr₀r₀d₀d₀m₀ | cr₀r₀d₀d₀ | bcm₀ |
| 17 | Blacksod Point | bc | c | bc | c |
| 18 | Malin Head ... | pr | bc | bc | c |
| | Aldergrove ... | cm₀cprc | cpr₀c | cir₀bcc | c |
| 19 | Birr Castle ... | r | pr | | pr |
| 20 | Valentia Obsy. | pr | pr | pr | pr |
| | Roches Point | r | pr | pr | bc |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 1st October, 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England | Light variable wind; fair apart from mist and fog in early morning; rather mild. |
| 2 E. England ... | Light, variable or westerly wind; fair apart from local mist and fog in early morning; rather mild. |
| 3 E. Midlands ... | |
| 4 W. Midlands | |
| 5 S.W. England | |
| 6 South Wales | |
| 7 North Wales | Light or moderate Southwest wind; cloudy with local rain today but some bright intervals, cloud increasing with occasional rain tomorrow; 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 ... | Moderate or fresh Southwest wind; cloudy, some rain later; average temperature. |
| 13B N.W. Scotland | |
| 14 Mid Scotland | |
| 15 N.E. Scotland | |
| 16 Orkneys and Shetlands | As 13A–15 |
| 17 N. W. Ireland | Moderate or fresh Southwest wind; cloudy; some rain later; average temperature |
| 18 N. E. Ireland | |
| 19 S. E. Ireland | Moderate Southwest wind; bright periods today; occasional rain tomorrow, rather mild. |
| 20 S. W. Ireland | |

### GENERAL INFERENCE

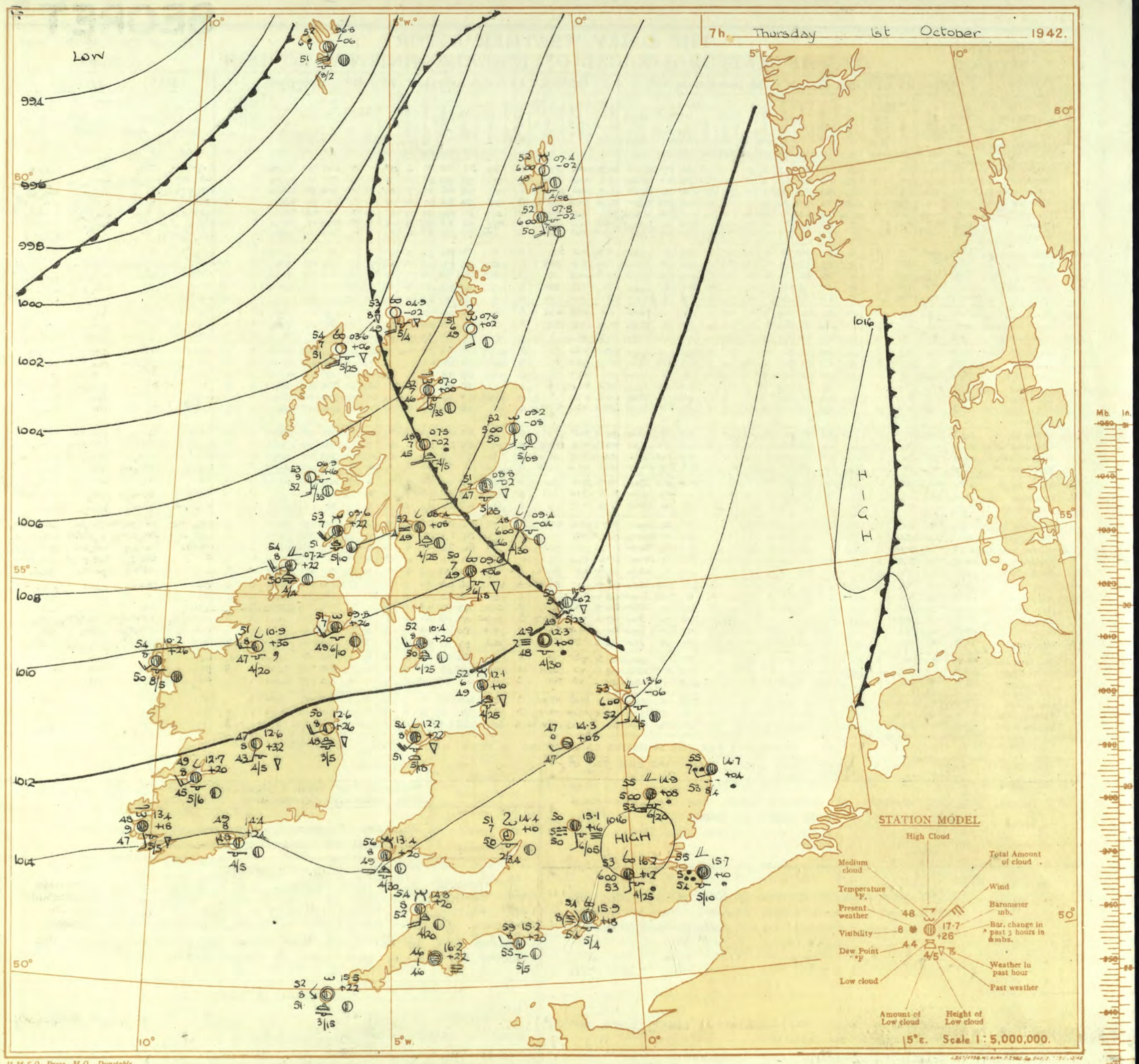
Pressure is low over Iceland and a trough of low pressure off Northwest Scotland is moving slowly southeast. A depression off Portugal is filling up, and a ridge of high pressure is building up from the Azores to southward of the British Isles. Weather will be fair, apart from some early morning fog in the south, but cloudy with rain at times in the north.

### FURTHER OUTLOOK

Westerly winds; fair in the south after a slight temporary break; unsettled 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




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

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

**Explanation of Frontal Lines shown on Charts**

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

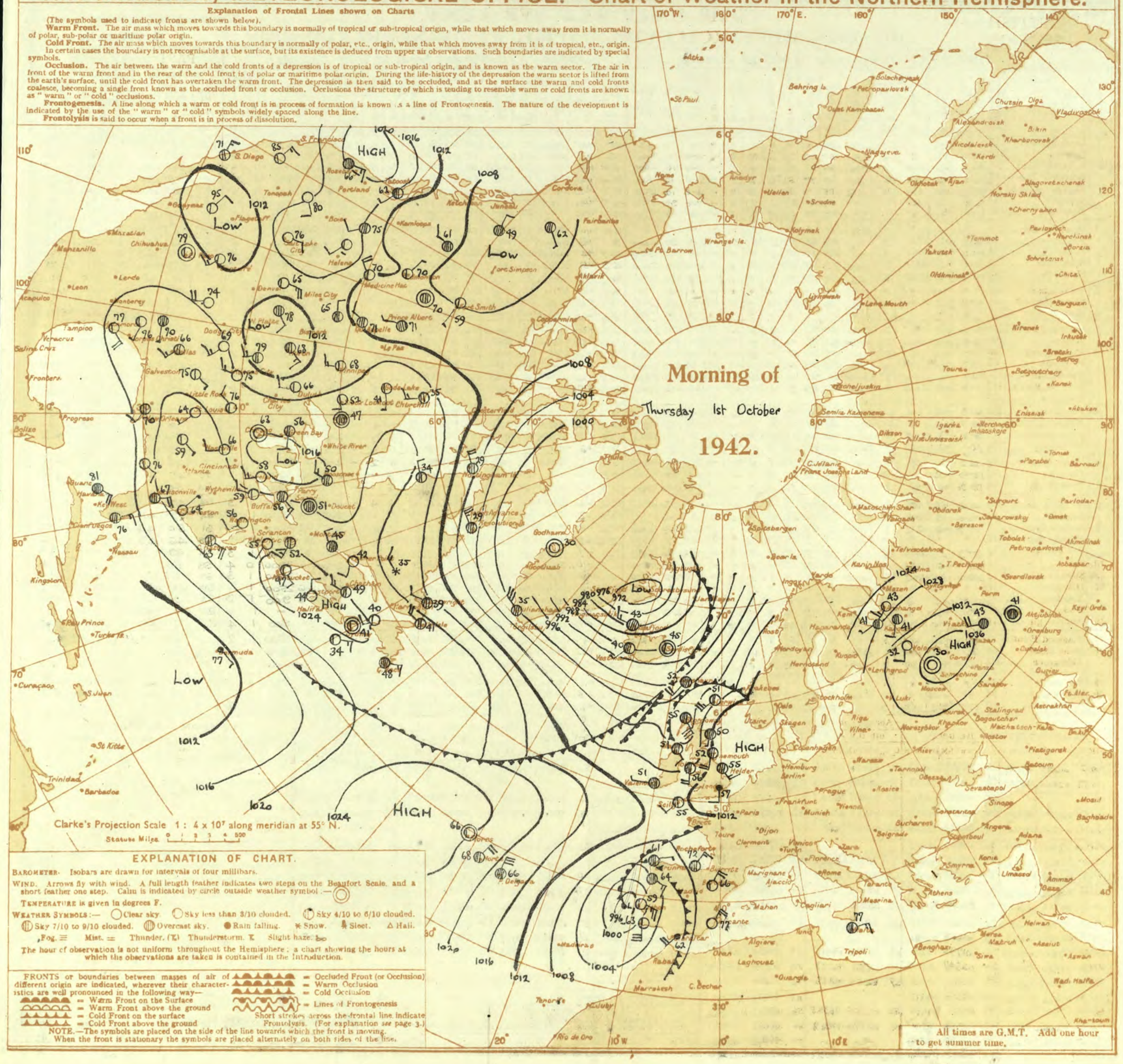
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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.

Thursday 1st October 1942

No. 29533

## OBSERVATIONS at 1 hr. G.M.T. 1st October

| 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 | 14·6 | -2 | S | 2 | r₀r₀ | 57 | 92 | 55 | 6 | 5 | 2 | - | 4-6 | 10 | 3000 |
| | S. Farnborough | 226 | 14·1 | +2 | SSE | 2 | c/d | 55 | 92 | 52 | 6 | 5 | 2 | - | 2-3 | 10 | 2500 |
| | Boscombe Down | 417 | 14·0 | +6 | S'E | 2 | z₀ | 52 | 97 | 52 | 6 | 5 | 7 | - | 2-3 | 10 | 800 |
| | Thorney Island | 10 | 13·2 | +4 | S'W | 2 | r₀r₀ | 58 | 97 | 57 | 7 | 5 | 2 | - | 4-6 | 10 | 2500 |
| | Lympne | 283 | 14·8 | -2 | SE | 1 | rr | 57 | 97 | 57 | 6 | 6 | 2 | - | 7-8 | 9+ | 1500 |
| | Manston | 154 | 14·8 | -2 | S | 1 | r₀r₀ | 57 | 97 | 56 | 5 | 5 | - | - | 10 | 10 | 700 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 14·9 | +2 | SSE | 2 | z₀ | 59 | 92 | 57 | 6 | 5 | 7 | - | 2-3 | 9+ | 4000 |
| | Gorleston | 5 | 14·9 | -2 | SSW | 2 | c | 59 | 92 | 57 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Mildenhall | 15 | 14·4 | -2 | SE'E | 2 | z₀ | 53 | 97 | 53 | 6 | 5 | 2 | - | 4-6 | 10 | 2000 |
| | Cranwell | 203 | 14·2 | +2 | SSE | 2 | z₀ | 50 | 97 | 50 | 5 | - | 1 | - | 0 | 10 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 13·6 | +2 | - | 0 | z₀ | 51 | 92 | 49 | 6 | - | 1 | - | 0 | 10 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 11·6 | +6 | S | 3 | b-bc | 53 | 92 | 51 | 8 | 5 | 4 | - | 1 | 2-3 | 2500 |
| | Bristol | 209 | 13·5 | +8 | SSW | 2 | c-bc | 54 | 92 | 51 | 8 | 5 | 7 | 8 | Tr | 7-8 | 4000 |
| | Portland Bill | 32 | 12·7 | +6 | S | 4 | c | 59 | 92 | 57 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | 12·7 | +6 | - | 0 | z₀ | 53 | 97 | 52 | 6 | 2 | - | 6 | Tr | 2-3 | 3000 |
| | The Lizard | 240 | 12·1 | +6 | SSW | 3 | b-bc | 53 | 97 | 52 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 |
| | Scilly (St. Mary's) | 163 | 11·8 | +10 | SW'S | 2 | bc | 55 | 85 | 51 | 8 | 5 | 4 | - | 2-3 | 4-6 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 10·8 | +12 | SW | 6 | bc | 56 | 85 | 52 | 7 | 2 | 6 | - | 4-6 | 4-6 | 3000 |
| 7 | Holyhead (Valley) | 32 | 08·7 | +6 | S | 4 | r₀r₀ | 56 | 92 | 53 | 7 | 3 | - | - | 7-8 | 7-8 | 1500 |
| | Chester (Sealand) | 16 | 10·8 | -2 | ESE | 3 | r₀r₀ | 53 | 85 | 49 | 6 | 5 | 7 | - | 9 | 10 | 2500 |
| 8 | Manchester | 235 | 12·1 | +2 | SE | 3 | c | 52 | 85 | 48 | 7 | 5 | 3 | - | 2-3 | 9 | 4000 |
| 10 | Spurn Head | 29 | 14·2 | 0 | S'E | 3 | c | 55 | 92 | 52 | 7 | 4 | 3 | - | 2-3 | 9+ | 2500 |
| | Catterick | 175 | 12·9 | -2 | S | 3 | z₀ | 50 | 97 | 50 | 5 | 5 | - | - | 9+ | 9+ | 1000 |
| | Tynemouth | 108 | 12·3 | -4 | S | 4 | c-bc | 52 | 92 | 50 | 6 | 5 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 10·4 | +2 | SE | 1 | bc | 50 | 92 | 48 | 7 | 5 | 4 | - | 4-6 | 4-6 | 4000 |
| | Leuchars | 36 | 09·4 | -2 | SSE | 3 | z₀ | 52 | 85 | 48 | 6 | - | 4 | 8 | 0 | 2-3 | - |
| 12 | Renfrew (Abbots I.) | 19 | 07·9 | -6 | E'S | 1 | c-bc | 51 | 85 | 47 | 7 | 7 | 7 | 2 | 2-3 | 7-8 | 3000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 07·7 | 0 | SW'S | 5 | rr | 54 | 97 | 52 | 7 | 6 | 2 | - | 7-8 | 10 | 1000 |
| 13A | Tiree | 22 | 05·1 | -2 | SSE | 4 | c-bc | 55 | 85 | 52 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| 13B | Stornoway | 80 | 03·0 | -10 | SSE | 6 | c-bc | 55 | 85 | 49 | 8 | 5 | 3 | - | 2-3 | 7-8 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 10·5 | +6 | S | 2 | z₀ | 50 | 97 | 48 | 5 | 5 | - | - | 7-8 | 9 | 300 |
| | Wick | 114 | 08·3 | +6 | S | 4 | bc | 51 | 85 | 47 | 7 | 5 | 3 | - | 4-6 | 4-6 | 3000 |
| 16 | Sumburgh | 19 | 08·5 | +10 | SW | 5 | b | 51 | 92 | 48 | 7 | 1 | - | - | 1 | 1 | 2500 |
| 17 | Blacksod Point | 18 | 06·2 | +20 | W'N | 3 | c | 53 | 92 | 51 | 8 | 5 | - | - | 9 | 9 | 2500 |
| 18 | Malin Head | 84 | 04·2 | +14 | SSE | 2 | c-bc | 51 | 85 | 47 | 8 | 4 | 5 | - | 2-3 | 7-8 | 2500 |
| | Aldergrove | 268 | 05·7 | +6 | SE | 2 | c-bc | 51 | 92 | 49 | 8 | 8 | 6 | - | 2-3 | 7-8 | 3000 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 10·1 | +14 | W | 1 | c/pr | 51 | 92 | 49 | 8 | 5 | - | - | 9+ | 9+ | 1500 |
| | Roches Point | 22 | 09·9 | +22 | W'S | 3 | bc | 53 | 92 | 51 | 8 | 5 | - | 5 | 2-3 | 4-6 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 1st October

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 15·9 | +14 | SSW | 1 | z₀ | 53 | 97 | 52 | 6 | 8 | - | - | 9+ | 9+ | 1500 |
| Croydon | 16·2 | +12 | SSE | 2 | z₀ | 53 | 97 | 53 | 6 | 5 | 7 | - | 4-6 | 9 | 2500 |
| S. Farnborough | 15·8 | +16 | SSW | 2 | b-bc | 52 | 97 | 51 | 7 | 7 | 7 | - | 2-3 | 2-3 | 2500 |
| Boscombe Down | 15·6 | +14 | S | 1 | fg | 53 | 97 | 49 | 6 | 5 | 3 | - | 4-6 | 9 | 600 |
| Thorney Island | 15·9 | +18 | - | 0 | fg | 54 | 97 | 54 | 8 | 5 | 7 | - | 7-8 | 10 | 1500 |
| Lympne | 16·5 | +14 | - | 0 | rr | 54 | 97 | 53 | 5 | 6 | 2 | - | 4-6 | 9+ | 300 |
| Manston | 15·7 | +10 | - | 0 | rr | 55 | 92 | 54 | 5 | 5 | 2 | - | 7-8 | 10 | 1000 |
| Shoeburyness | 15·8 | +10 | WSW | 1 | c | 54 | 97 | 53 | 5 | 5 | 2 | - | 2-3 | 9+ | 3500 |
| Felixstowe | 15·1 | +6 | SW'W | 1 | ir₀ | 55 | 92 | 53 | 6 | 5 | 2 | - | 7-8 | 10 | 3000 |
| Gorleston | 14·7 | +4 | WSW | 1 | r₀r₀ | 55 | 92 | 53 | 7 | 6 | - | - | 10 | 10 | 1500 |
| Mildenhall | 14·9 | +8 | SW'S | 3 | z₀ | 55 | 92 | 53 | 6 | 5 | 2 | - | 9 | 9+ | 2000 |
| Cranwell | 14·1 | +6 | SW | 3 | z₀ | 49 | 97 | 48 | 5 | - | 7 | - | 0 | 2-3 | - |
| Birmingham | 14·8 | +10 | SSW | 2 | z₀ | 48 | 97 | 47 | 5 | - | 3 | 1 | 0 | 4-6 | - |
| Upper Heyford | 15·1 | +16 | S | 1 | if | 50 | 97 | 50 | 5 | 5 | - | - | 9 | 9 | 500 |
| Ross-on-Wye | 14·4 | +10 | SW | 1 | b | 51 | 97 | 50 | 7 | 5 | - | 9 | 1 | 1 | 3400 |
| Hartland Point | 14·8 | +20 | SSW | 3 | c-bc | 54 | 92 | 52 | 8 | 2 | 6 | - | 4-6 | 7-8 | 2000 |
| Bristol | 16·0 | +22 | SSW | 1 | fg | 49 | 97 | 48 | 7 | 5 | 4 | - | Tr | 1 | 2500 |
| Portland Bill | 15·2 | +20 | W | 4 | c-bc | 59 | 85 | 55 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 |
| Plymouth | 16·2 | +22 | - | 0 | bF | 46 | 97 | 46 | 1 | - | - | - | 0 | 0 | - |
| The Lizard | 14·9 | +16 | - | 0 | b-bc | 53 | 97 | 53 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 |
| Scilly (St. Mary's) | 15·5 | +22 | - | 0 | bcl | 52 | 92 | 51 | 8 | 8 | 3 | - | 2-3 | 4-6 | 1500 |
| Guernsey | | | | | | | | | | | | | | | |
| Pembroke | 13·4 | +20 | SW | 4 | c-bc | 56 | 75 | 49 | 8 | 8 | 6 | - | 4-6 | 7-8 | 3000 |
| Holyhead (Valley) | 12·2 | +22 | SW'S | 5 | c | 54 | 92 | 51 | 8 | 7 | 4 | - | 7-8 | 9+ | 1800 |
| Chester (Sealand) | 12·8 | +2 | ESE | 1 | c-bc | 51 | 92 | 48 | 7 | 5 | 7 | 1 | 4-6 | 7-8 | 3500 |
| Manchester | 12·7 | +6 | SSE | 3 | bc | 51 | 92 | 48 | 6 | 5 | 3 | - | 2-3 | 4-6 | 4000 |
| Spurn Head | 13·6 | -6 | SSW | 3 | z₀ | 53 | 97 | 52 | 6 | 5 | 2 | - | 4-6 | 10 | 2500 |
| Catterick | 12·3 | 0 | - | 0 | bcf | 49 | 97 | 48 | 2 | 5 | - | - | 4-6 | 4-6 | 3000 |
| Tynemouth | 11·8 | -2 | SW | 3 | c-bc/pr | 50 | 97 | 49 | 5 | 5 | - | - | 7-8 | 7-8 | 2300 |
| St. Abbs Head | 09·4 | -4 | SSE | 3 | z₀ | 48 | 92 | 46 | 6 | 5 | 4 | - | 4-6 | 4-6 | 3000 |
| Leuchars | 08·8 | -2 | - | 0 | c-bc | 51 | 85 | 47 | 7 | 5 | - | - | 7-8 | 7-8 | 3500 |
| Renfrew (Abbots I.) | 08·4 | +8 | S | 1 | m | 52 | 92 | 49 | 4 | 8 | 4 | - | 4-6 | 7-8 | 2500 |
| Eskdalemuir | 09·6 | +6 | S | 3 | c | 50 | 97 | 49 | 7 | 5 | 7 | - | 9 | 9+ | 1800 |
| Point of Ayre | 10·4 | +20 | W'S | 3 | c | 52 | 92 | 48 | 8 | 8 | - | - | 9 | 9 | 2500 |
| Tiree | 06·9 | +16 | SSW | 3 | bc | 53 | 92 | 52 | 9 | 5 | - | - | 4-6 | 4-6 | 3500 |
| Stornoway | 03·6 | +6 | SSW | 5 | c | 54 | 85 | 51 | 7 | 5 | 7 | - | 7-8 | 9 | 2500 |
| Dalwhinnie | 07·2 | -2 | SSW | 3 | bc | 48 | 85 | 45 | 7 | 9 | - | - | 4-6 | 4-6 | 2500 |
| Aberdeen † | 09·2 | -8 | S'W | 3 | z₀ | 52 | 92 | 50 | 5 | 5 | 3 | - | 7-8 | 7-8 | 900 |
| Wick | 07·6 | +2 | SSE | 4 | bc | 51 | 92 | 49 | 6 | - | 3 | 6 | 0 | 4-6 | - |
| Sumburgh | 07·8 | -2 | S'E | 5 | z₀ | 52 | 92 | 50 | 6 | 5 | - | - | 9+ | 9+ | 800 |
| Blacksod Point | 10·2 | +26 | SW | 3 | c | 54 | 85 | 50 | 8 | 5 | - | - | 10 | 10 | 2500 |
| Malin Head | 07·2 | +22 | W'S | 4 | c-bc | 54 | 85 | 50 | 8 | 8 | 2 | - | 4-6 | 7-8 | 1500 |
| Aldergrove | 09·8 | +26 | SW | 3 | c | 51 | 92 | 49 | 7 | 5 | 3 | - | 9 | 9+ | 1000 |
| Birr Castle | 12·6 | +32 | SSW | 2 | bc | 47 | 85 | 43 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 |
| Valentia Obsy. | 13·4 | +18 | S'E | 1 | c | 48 | 92 | 46 | 9 | 5 | 3 | 1 | 7-8 | 9+ | 2500 |
| Roches Point | 14·4 | +24 | W | 1 | bc | 49 | 97 | 47 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 |

## PAST 24 HOURS.

| Stations | 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 30th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1 | * | 59 | 53 | 47 | 1 | 0·1 | 0·0 |
| Croydon | 1 | * | 60 | 53 | 50 | 1 | 4 | 0·3 |
| S. Farnborough | 1 | * | 60 | 52 | 45 | 4 | Tr | 1·7 |
| Boscombe Down | 0 | * | 61 | 50 | 45 | - | Tr | 4·9 |
| Thorney Island | 1 | * | 63 | 54 | 49 | Tr | 4 | * |
| Lympne | 1 | §1 | 60 | 53 | 50 | 1 | 9 | 1·5 |
| Manston | 1 | * | 59 | 54 | 51 | 0·6 | 7 | 0·9 |
| Shoeburyness | 1 | * | 59 | 53 | 52 | 3 | 5 | 0·4 |
| Felixstowe | 1 | 1 | 60 | 54 | 53 | 1 | 4 | 2·2 |
| Gorleston | 1 | 2 | 57 | 55 | 52 | 2 | 3 | 1·4 |
| Mildenhall | 1 | * | 59 | 53 | 50 | 3 | 0·4 | 0·9 |
| Cranwell | 1 | * | 59 | 48 | 43 | 2 | Tr | 3·1 |
| Birmingham | 1 | * | 60 | 46 | 34 | 0·1 | - | 5·6 |
| Upper Heyford | 0 | * | 61 | 50 | 45 | Tr | - | * |
| Ross-on-Wye | 1 | * | 62 | 50 | 41 | 0·6 | - | 7·1 |
| Hartland Point | 1 | 3 | 61 | 52 | 49 | - | - | 7·7 |
| Bristol | 1 | * | 63 | 46 | 36 | 0·3 | Tr | 8·5 |
| Portland Bill | 1 | 4 | 59 | 57 | * | - | - | * |
| Plymouth | 1 | 1 | 62 | 45 | 36 | - | - | 9·9 |
| The Lizard | 1 | 3 | 60 | 50 | * | Tr | - | 7·2 |
| Scilly (St. Mary's) | 1 | 2 | 60 | 52 | * | 1 | - | 2·9 |
| Guernsey | | | | | | | | |
| Pembroke | 1 | 3 | 59 | 52 | * | 1 | 2 | 1·3 |
| Holyhead (Valley) | 1 | 4 | 62 | 53 | 50 | 2 | 7 | * |
| Chester (Sealand) | 1 | * | 63 | 50 | 42 | 0·1 | 0·3 | 7·2 |
| Manchester | 1 | * | 61 | 50 | 46 | - | 0·3 | * |
| Spurn Head | 1 | 3 | 58 | 52 | * | 4 | Tr | 3·6 |
| Catterick | 1 | * | 57 | 47 | 42 | - | 0·1 | 3·5 |
| Tynemouth | 1 | 3 | 54 | 50 | | 2 | Tr | * |
| St. Abbs Head | 1 | 3 | 54 | 47 | * | 2 | - | * |
| Leuchars | 1 | * | 54 | 49 | 41 | Tr | Tr | 1·4 |
| Renfrew (Abbots I.) | 1 | * | 61 | 50 | 44 | - | 1 | 2·5 |
| Eskdalemuir | 2½ | * | 58 | 46 | 43 | - | 1 | 2·6 |
| Point of Ayre | 1 | 3 | 61 | 49 | * | 2 | 10 | 5·8 |
| Tiree | 0 | 4 | 58 | 50 | * | - | - | 9·8 |
| Stornoway | 1 | 3 | 58 | 52 | * | - | Tr | 3·0 |
| Dalwhinnie | 1 | * | 55 | 46 | 40 | - | 1 | 0·2 |
| Aberdeen † | 1 | 3 | 54 | 47 | 44 | 9 | Tr | 0·0 |
| Wick | 1 | * | 55 | 47 | 43 | 7 | 2 | * |
| Sumburgh | 1 | 4 | 54 | 51 | 48 | 0·6 | 0·6 | 0·2 |
| Blacksod Point | 1 | 2 | 56 | 49 | * | 0·1 | 0·2 | * |
| Malin Head | 1 | 2 | 60 | 48 | | - | - | 9·5 |
| Aldergrove | 1 | * | 58 | 49 | 45 | Tr | - | 5·5 |
| Birr Castle | 1 | * | 57 | 45 | 41 | 0·3 | 2 | 0·3 |
| Valentia Obsy. | 1 | 2 | 56 | 47 | 41 | 12 | 0·4 | 0·3 |
| Roches Point | 1 | 3 | 60 | (40) | * | 0·2 | 0·3 | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| IIIC_L C_M (13h. G.M.T. 30th September) | wwVhN_h (13h) | DDFWN (13h) | C_L C_M (18h. G.M.T.) | wwVhN_h (18h) | DDFWN (18h) | C_L C_M (01h. G.M.T. 1st October) | wwVhN_h (01h) | DDFWN (01h) | C_L C_M (07h. G.M.T.) | wwVhN_h (07h) | DDFWN (07h) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 52 | 61627 | 12328 | 02 | 58658 | 00068 | 01 | 02690 | 15364 | 5- | 05662 | 48414 |
| 115 52 | 02844 | 12427 | 52 | 02844 | 22127 | 53 | 02844 | 16326 | 57 | 81845 | 16488 |
| 203 | | | 57 | 02953 | 12126 | 53 | 02845 | 16327 | 8- | 02847 | 16427 |
| 206 5- | 02777 | 08127 | 51 | 02775 | 00028 | 5- | 05667 | 07217 | 53 | 02765 | 16215 |
| 210 52 | 64762 | 07368 | 67 | 22854 | 12266 | 53 | 02765 | 12167 | 53 | 01862 | 12313 |
| 220 76 | 02863 | 12314 | 70 | 01853 | 12403 | | | | 82 | 03736 | 21428 |
| 230 16 | 02861 | 00025 | 23 | 01863 | 00014 | 8- | 25856 | 00086 | 82 | 81856 | 18187 |
| 245 02 | 64648 | 12168 | 5- | 01752 | 16262 | 50 | 05664 | 16214 | 5- | 05667 | 16317 |
| 260 52 | 05655 | 00028 | 46 | 17664 | 07225 | 5- | 05666 | 16316 | 5- | 02865 | 18115 |
| 278 20 | 01754 | 13414 | 9- | 82637 | 83487 | 87 | 25846 | 14487 | 57 | 25846 | 21387 |
| 279 14 | 02763 | 12325 | 70 | 05663 | 12213 | 02 | 61578 | 12218 | 8- | 05655 | 20367 |
| 285 27 | 02755 | 12427 | 53 | 05625 | 02416 | | | | | | |
| 288 20 | 05664 | 00028 | 00 | 01790 | 13312 | 03 | 01790 | 14415 | 04 | 01690 | 16311 |
| 575 86 | 81746 | 08387 | 5- | 02947 | 12327 | 53 | 02755 | 16128 | 54 | 01854 | 24354 |
| 301 20 | 05664 | 16424 | 59 | 05661 | 14313 | 57 | 62654 | 14468 | 86 | 25654 | 18365 |
| 321 74 | 01764 | 14364 | 40 | 02852 | 14315 | | | | 01 | 41490 | 17242 |
| 299 54 | 02764 | 00013 | 43 | 01762 | 14414 | 50 | 02755 | 16325 | 5- | 08428 | 22328 |
| 292 10 | 85654 | 15261 | 45 | 05662 | 11314 | 81 | 05590 | 14218 | -- | 46109 | 15149 |
| 310 -- | 01624 | 08214 | -- | 01634 | 16314 | | | | -- | 46209 | 20319 |
| 614 | | | 50 | 05553 | 14226 | 01 | 05490 | 14228 | -- | 48009 | 22129 |

| IIIC_L C_M (13h. G.M.T. 30th September) | wwVhN_h (13h) | DDFWN (13h) | C_L C_M (18h. G.M.T.) | wwVhN_h (18h) | DDFWN (18h) | C_L C_M (01h. G.M.T. 1st October) | wwVhN_h (01h) | DDFWN (01h) | C_L C_M (07h. G.M.T.) | wwVhN_h (07h) | DDFWN (07h) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | | | 86 | 81944 | 18486 | 52 | 22644 | 18467 | 83 | 81755 | 12854 |
| 334 -- | 02754 | 12215 | | | | | | | | | |
| 340 2- | 02856 | 15426 | 23 | 01863 | 10155 | 53 | 02764 | 15427 | 53 | 02873 | 17314 |
| 136 | | | 57 | 02844 | 14228 | 51 | 02754 | 12228 | 07 | 05690 | 15266 |
| 336 70 | 10754 | 16414 | | | | | | | 10 | 01753 | 20213 |
| 350 23 | 05653 | 15326 | 21 | 05662 | 13326 | 97 | 08490 | 12128 | 57 | 05544 | 20124 |
| 368 | | | | | | 53 | 01764 | 18214 | 83 | 01753 | 18114 |
| 379 2- | 02855 | 14315 | 20 | 02853 | 14426 | 07 | 01790 | 10314 | 03 | 43290 | 10144 |
| 390 5- | 05545 | 12168 | 57 | 05561 | 12325 | 57 | 61452 | 12268 | 57 | 47364 | 16166 |
| 382 87 | 02764 | 12326 | 22 | 02862 | 14225 | 07 | 05690 | 00028 | 57 | 45242 | 00044 |
| 438 87 | 02854 | 20226 | 87 | 02853 | 14216 | 5- | 62648 | 16268 | 87 | 22744 | 20266 |
| 430 86 | 02864 | 16325 | 17 | 02852 | 14127 | 52 | 64678 | 12168 | 57 | 05664 | 00028 |
| 409 83 | 02955 | 17515 | 23 | 81954 | 17585 | 54 | 01851 | 16202 | 84 | 01851 | 16112 |

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 1st October
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 * | | | |
| Croydon | | | |
| Greenwich | r₀c | c | cr₀r₀rrc |
| Camden Square | o | c | * |
| *Kensington | bccor | cor | * |
| Hampstead | orbc | or | o |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·2 Time 18-24h. Min. Lo1 Time 30th 4h 1st

| 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 | | 53 | 47 | 1 | 0·1 | 0·0 | * | * |
| Croydon | | 53 | 50 | 1 | 4 | 0·3 | * | * |
| Greenwich | 60 | 52 | 48 | Tr | 5 | 0·4 | 69 | 91 |
| Westminster | 60 | 53 | 51 | · | 3 | | 79 | 97 |
| Regents Park | 59 | 51 | 50 | Tr | 1 | | 79 | 87 |
| Camden Square | 60 | 52 | 49 | - | 1 | * | * | 94 |
| Kensington | 60 | 52 | 45 | Tr | 1 | | 76 | 92 |
| Hampstead | 59 | 52 | 49 | 0·1 | 0·2 | | * | 81 |

BRITISH SECTION

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

**SECRET**

Friday 2nd October 1942

No. 29534

## OBSERVATIONS at 13h. G.M.T. 1st October

| 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) | 18·4 | +10 | WSW | 2 | c-bc | 64 | 65 | 51 | 8 | 2 | - | - | 7·8 | 7·8 | 2500 |
| | Croydon ... | 18·8 | +6 | SSW | 2 | c-bc | 63 | 75 | 54 | 7 | 2 | 6 | - | 7·8 | 7·8 | 3000 |
| | S. Farnborough | 18·4 | +10 | WNW | 3 | bc | 64 | 65 | 52 | 8 | 8 | 5 | - | 4·6 | 4·6 | 3000 |
| | Boscombe Down | 18·9 | +12 | W'S | 3 | b-bc | 66 | 75 | 58 | 8 | 1 | 4 | - | 2·3 | 2·3 | 2500 |
| | Thorney Island | 18·7 | +12 | SW | 3 | b-bc | 66 | 65 | 55 | 9 | 8 | - | - | 2·3 | 2·3 | 2500 |
| | Lympne ... | 18·8 | +10 | SW | 2 | b-bc | 65 | 65 | 52 | 8 | 2 | - | - | 2·3 | 2·3 | 2600 |
| | Manston ... | 18·7 | +14 | WNW | 2 | b-bc | 63 | 75 | 55 | 8 | 2 | - | - | 2·3 | 2·3 | 2800 |
| 2 | Shoeburyness ... | 18·7 | +4 | WSW | 1 | bc | 66 | 65 | 55 | 8 | 2 | - | - | 4·6 | 4·6 | 5000 |
| | Felixstowe ... | 18·0 | +8 | W | 3 | zo | 65 | 75 | 55 | 6 | 2 | - | - | 2·3 | 2·3 | 4000 |
| | Gorleston ... | 17·9 | +16 | WNW | 3 | bc | 66 | 65 | 51 | 7 | 8 | - | - | 4·6 | 4·6 | 2500 |
| | Mildenhall ... | 17·7 | +14 | WSW | 3 | bc | 65 | 65 | 52 | 8 | 2 | - | - | 4·6 | 4·6 | 2500 |
| | Cranwell ... | 17·1 | +16 | W | 4 | bc | 60 | 65 | 48 | 7 | 2 | - | - | 4·6 | 4·6 | 2500 |
| 3 | Birmingham ... | 17·5 | +14 | W | 3 | bc | 62 | 45 | 41 | 8 | 7 | - | - | 4·6 | 4·6 | 2500 |
| | Upper Heyford | 17·7 | +8 | N'S | 4 | bc | 61 | 65 | 50 | 8 | 2 | - | - | 4·6 | 4·6 | 2200 |
| 4 | Ross-on-Wye | 17·9 | +14 | W'S | 3 | b-bc | 63 | 55 | 48 | 8 | 7 | - | - | 2·3 | 2·3 | 4000 |
| 5 | Hartland Point | 19·0 | +16 | W | 3 | bc | 58 | 85 | 52 | 8 | 1 | - | - | 4·6 | 4·6 | 2500 |
| | Bristol ... | 19·3 | +16 | W | 3 | bc | 65 | 55 | 50 | 8 | 2 | - | - | 4·6 | 4·6 | 4000 |
| | Portland Bill ... | 20·3 | +12 | W | 3 | bc | 61 | 85 | 56 | 8 | 2 | - | - | 4·6 | 4·6 | 4000 |
| | Plymouth ... | 19·6 | +18 | SSW | 2 | b-bc | 62 | 75 | 54 | 8 | 1 | - | - | 2·3 | 2·3 | 3000 |
| | The Lizard ... | 17·8 | +8 | WNW | 2 | b-bc | 61 | 85 | 53 | 8 | 2 | - | - | 2·3 | 2·3 | 2500 |
| | Scilly (St. Mary's) | 19·7 | +16 | NW'N | 2 | b-bc | 63 | 75 | 54 | 8 | 1 | - | - | 2·3 | 2·3 | 1600 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 191 | +18 | WSW | 4 | bc | 58 | 75 | 51 | 8 | 2 | - | - | 4·6 | 4·6 | 3000 |
| 7 | Holyhead (Valley) | 17·2 | +18 | WSW | 4 | b-bc | 59 | 65 | 49 | 9 | 2 | 4 | 1 | 1 | 2·3 | 2500 |
| | Chester (Sealand) | 16·7 | +22 | NW | 3 | c | 59 | 65 | 49 | 8 | 8 | 3 | - | 7·8 | 9 | 3500 |
| 8 | Manchester ... | 17·0 | +26 | SW'W | 4 | c-bc | 58 | 75 | 50 | 6 | 2 | 6 | - | 4·6 | 7·8 | 2500 |
| 10 | Spurn Head ... | 16·2 | +10 | W'S | 4 | zo | 60 | 75 | 51 | 6 | 7 | - | - | 4·6 | 4·6 | 2500 |
| | Catterick ... | 15·3 | +16 | W'S | 4 | c-bc | 61 | 65 | 47 | 8 | 8 | 3 | - | 4·6 | 7·8 | 4000 |
| | Tynemouth ... | 14·4 | +14 | W | 3 | c-bc | 60 | 65 | 48 | 7 | 5 | - | - | 7·8 | 7·8 | 2400 |
| 11 | St. Abbs Head | 11·9 | +20 | W | 3 | c | 58 | 75 | 47 | 8 | 5 | 4 | - | 7·8 | 9+ | 3000 |
| | Leuchars ... | 10·9 | +12 | SW | 4 | c | 58 | 75 | 49 | 7 | 5 | 7 | - | 4·6 | 9+ | 2500 |
| 12 | Renfrew (Abbots I.) | 12·6 | +22 | WSW | 4 | c | 57 | 75 | 50 | 8 | 8 | 7 | - | 4·6 | 9 | 2000 |
| | Eskdalemuir ... | 13·4 | +16 | SW'W | 3 | c/pr | 53 | 85 | 48 | 8 | 8 | 7 | - | 7·8 | 9+ | 1100 |
| | Point of Ayre... | 15·1 | +18 | W | 5 | b | 59 | 75 | 50 | 8 | 1 | 4 | - | 1 | 1 | 3000 |
| 13A | Tiree ... ... | 12·2 | +24 | NW | 4 | fo/o | 53 | 92 | 50 | 7 | - | 2 | - | 9+ | 9+ | 1500 |
| 13B | Stornoway ... | 09·0 | +42 | WNW | 5 | c/pr | 53 | 85 | 47 | 7 | 5 | 7 | - | 9+ | 9+ | 2000 |
| 15 | Dalwhinnie ... | 10·4 | +14 | WSW | 3 | c | 52 | 85 | 48 | 8 | 8 | - | - | 9+ | 9+ | 2500 |
| | Aberdeen ... | 09·8 | +2 | SW | 3 | b-bc | 60 | 65 | 48 | 8 | 8 | 4 | - | 2·3 | 2·3 | 3000 |
| | Wick ... | 08·0 | +2 | S'E | 3 | c | 56 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| 16 | Sumburgh ... | 07·3 | -6 | S | 5 | zo | 53 | 92 | 51 | 6 | 5 | - | - | 10 | 10 | 4000 |
| 17 | Blacksod Point | 16·7 | +42 | NW | 3 | c | 55 | 75 | 48 | 8 | 5 | - | - | 10 | 10 | 1500 |
| 18 | Malin Head ... | 12·7 | +22 | SW'S | 3 | c/r | 55 | 85 | 51 | 8 | 6 | 2 | - | 4·6 | 9+ | 2500 |
| | Aldergrove ... | 14·9 | +22 | SW | 3 | c | 55 | 75 | 47 | 9 | 5 | 7 | - | 9+ | 10 | 3000 |
| 19 | Birr Castle ... | 16·5 | +14 | SSW | 3 | c | 57 | 75 | 50 | 8 | 5 | 1 | - | 7·8 | 10 | 2500 |
| 20 | Valentia Obsy. | 18·1 | +18 | S'W | 3 | do/o | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Roches Point | 18·7 | +16 | W'S | 2 | bc | 58 | 75 | 50 | 8 | 5 | - | - | 4·6 | 4·6 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 1st October

| 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) | 21·9 | +24 | WNW | 1 | zo | 59 | 75 | 51 | 5 | 5 | - | - | 2·3 | 2·3 | 2500 | 1 | * |
| | Croydon ... | 21·6 | +12 | SW'W | 2 | fg | 60 | 65 | 46 | 6 | 4 | 4 | 1 | Tr | 1 | 3000 | 1 | * |
| | S. Farnborough | 21·5 | +10 | W'N | 2 | b-bc | 62 | 65 | 50 | 8 | 7 | 4 | - | 1 | 2·3 | 3000 | 0 | * |
| | Boscombe Down | 21·8 | +20 | NW'N | 2 | b-bc | 57 | 85 | 52 | 8 | 1 | 6 | 9 | Tr | 2·3 | 3500 | 0 | * |
| | Thorney Island | 21·5 | +18 | SW | 3 | b | 59 | 85 | 55 | 9 | 4 | 6 | - | 1 | 1 | 2500 | 0 | * |
| | Lympne ... | 22·2 | +18 | SW | 2 | b | 56 | 92 | 54 | 9 | 4 | - | - | 1 | 1 | 3000 | 1 | § 1 |
| | Manston ... | 21·4 | +18 | SW | 2 | b-bc | 58 | 85 | 54 | 8 | 2 | - | - | 2·3 | 2·3 | 2500 | 1 | * |
| 2 | Shoeburyness ... | 21·2 | +8 | SW | 1 | b | 60 | 85 | 55 | 6 | 5 | - | - | 1 | 1 | 7000 | 1 | * |
| | Felixstowe ... | 20·4 | +12 | S | 1 | zo | 59 | 85 | 55 | 6 | 5 | - | - | 4·6 | 4·6 | 4000 | 1 | 2 |
| | Gorleston ... | 20·8 | +16 | SW'W | 1 | b-bc | 61 | 75 | 53 | 6 | - | 4 | - | 0 | 2·3 | - | 1 | 2 |
| | Mildenhall ... | 20·8 | +20 | WSW | 2 | b-bc | 59 | 75 | 49 | 8 | 4 | 6 | 1 | 1 | 2·3 | 2500 | 1 | * |
| | Cranwell ... | 20·4 | +24 | W'S | 1 | b | 55 | 75 | 49 | 7 | - | 4 | - | 0 | 1 | - | 0 | * |
| 3 | Birmingham ... | 20·9 | +14 | W | 2 | zo | 57 | 65 | 46 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| | Upper Heyford | 20·6 | +20 | - | 0 | b-bc | 58 | 75 | 51 | 7 | 4 | 4 | - | 2·3 | 2·3 | 4000 | 0 | * |
| 4 | Ross-on-Wye | 20·8 | +14 | SW | 2 | b | 57 | 75 | 47 | 8 | 4 | - | 1 | Tr | Tr | 3500 | 1 | * |
| 5 | Hartland Point | 22·0 | +16 | WNW | 2 | b-bc | 56 | 85 | 50 | 9 | 1 | - | 4 | 1 | 2·3 | 3000 | 0 | 3 |
| | Bristol ... | 22·4 | +22 | - | 0 | b | 55 | 85 | 49 | 8 | - | - | 9 | 0 | Tr | - | 0 | * |
| | Portland Bill ... | 21·4 | +12 | W | 3 | bc | 60 | 85 | 54 | 8 | 2 | - | - | 4·6 | 4·6 | 4000 | 1 | 4 |
| | Plymouth ... | 21·8 | +12 | NW | 2 | b | 59 | 75 | 52 | 8 | 4 | 4 | - | Tr | Tr | 3000 | 0 | 1 |
| | The Lizard ... | 21·1 | +14 | N | 2 | bc | 59 | 85 | 54 | 8 | 8 | 4 | - | 2·3 | 4·6 | 2500 | 0 | 3 |
| | Scilly (St. Mary's) | 22·0 | +14 | N | 1 | bc | 57 | 75 | 49 | 8 | 5 | 4 | 4 | 1 | 4·6 | 1500 | 1 | 2 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 22·5 | +4 | WSW | 3 | bc | 57 | 85 | 50 | 8 | 2 | - | - | 4·6 | 4·6 | 3000 | 1 | 3 |
| 7 | Holyhead (Valley) | 20·3 | +18 | SW'S | 3 | c | 57 | 85 | 51 | 9 | 2 | 7 | - | Tr | 9 | 3000 | 1 | 3 |
| | Chester (Sealand) | 20·2 | +22 | SW'W | 1 | b-bc | 56 | 75 | 48 | 8 | - | 4 | - | 0 | 2·3 | - | 0 | * |
| 8 | Manchester ... | 20·3 | +22 | W | 3 | zo | 53 | 85 | 47 | 6 | 4 | 3 | - | 2·3 | 4·6 | 4000 | 0 | * |
| 10 | Spurn Head ... | 20·0 | +30 | WSW | 2 | zo | 58 | 75 | 51 | 6 | - | 8 | - | 0 | Tr | 4000 | 0 | 2 |
| | Catterick ... | 19·0 | +18 | WSW | 1 | c-bc | 55 | 75 | 48 | 8 | 5 | 4 | - | 4·6 | 7·8 | 5800 | 0 | * |
| | Tynemouth ... | 17·4 | +16 | W | 2 | b-bc | 57 | 75 | 49 | 6 | 2 | - | - | 2·3 | 2·3 | 2500 | 1 | 3 |
| 11 | St. Abbs Head | 14·9 | +10 | W | 3 | bc | 54 | 85 | 48 | 7 | 5 | 4 | - | 2·3 | 4·6 | 3000 | 0 | 3 |
| | Leuchars ... | 15·3 | +18 | SW | 3 | c-bc | 54 | 85 | 49 | 8 | 5 | 3 | - | 2·3 | 7·8 | 4000 | 1 | * |
| 12 | Renfrew (Abbots I.) | 16·1 | +22 | SW | 3 | do | 55 | 85 | 51 | 6 | 5 | 2 | - | 7·8 | 10 | 1500 | 1 | * |
| | Eskdalemuir ... | 17·7 | +22 | SWS | 3 | c | 52 | 85 | 48 | 7 | 5 | - | - | 9+ | 9+ | 1200 | 1 | * |
| | Point of Ayre... | 18·7 | +12 | W'S | 3 | c | 55 | 92 | 53 | 8 | 5 | 2 | - | 7·8 | 10 | 2500 | 1 | 3 |
| 13A | Tiree ... ... | 17·2 | +10 | NW | 4 | bc | 52 | 75 | 43 | 8 | 8 | - | - | 4·6 | 4·6 | 2500 | 0 | 4 |
| 13B | Stornoway ... | 13·7 | +18 | WSW | 3 | b-bc | 50 | 75 | 42 | 8 | 2 | - | - | 2·3 | 2·3 | 2500 | 1 | 2 |
| 15 | Dalwhinnie ... | 15·2 | +32 | WSW | 3 | c | 48 | 92 | 46 | 7 | 8 | - | - | 4·6 | 4·6 | 1500 | 1 | * |
| | Aberdeen ... | 14·0 | +32 | WSW | 3 | zo | 57 | 75 | 47 | 6 | 5 | - | - | 4·6 | 4·6 | 3500 | 1 | 2 |
| | Wick ... | 13·1 | +30 | W'N | 2 | bc | 49 | 85 | 46 | 8 | 8 | - | - | 4·6 | 4·6 | 3000 | 1 | * |
| 16 | Sumburgh ... | 09·8 | +30 | WNW | 5 | bc/d | 51 | 75 | 43 | 8 | 2 | 4 | - | 4·6 | 4·6 | 2500 | 1 | 4 |
| 17 | Blacksod Point | 21·1 | +24 | NW | 2 | b | 51 | 75 | 44 | 8 | 8 | - | - | 1 | 1 | 2500 | 1 | 2 |
| 18 | Malin Head ... | 18·1 | +34 | NW'N | 4 | c | 53 | 65 | 42 | 8 | 8 | - | - | 9 | 9 | 2500 | 1 | 3 |
| | Aldergrove ... | 18·8 | +26 | NW | 1 | c/r | 53 | 92 | 51 | 9 | 5 | 2 | - | 9 | 10 | 1000 | 1 | * |
| 19 | Birr Castle ... | 19·9 | +30 | SSW | 2 | c | 54 | 92 | 52 | 7 | 5 | 2 | - | 7·8 | 10 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 21·6 | +18 | NNE | 4 | c | 54 | 85 | 50 | 7 | 5 | 7 | 3 | 7·8 | 9+ | 2500 | 1 | 3 |
| | Roches Point | 21·2 | +18 | WSW | 3 | c | 57 | 85 | 52 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 3 |

## PAST 24 HOURS.

| District | Stations. | Weather. 7h.—13h. 1st (39) | Weather. 13h.—18h. 1st (40) | Weather. 18h. 1st to 1h. 2nd (41) | Weather. 1h.—7h. 2nd (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | cbcm₀ | bybcz₀ | ffw | bbc |
| | Croydon ... | cbcc | cbcb | m₀ | bm₀cm₀m |
| | S. Farnborough | bc | bcybc | bwm₀ | bwcm₀m |
| | Boscombe Down | cm₀webbc | bc | b,bm₀w | bm₀bfw |
| | Thorney Island | efgebc | bcb | bwfg | bcw jfg |
| | Lympne ... | cm₀rrbc | bbcrbr | bvbwFF | bFm₀w |
| | Manston ... | crvm₀bcb | bbc | bm₀ | bmfm |
| 2 | Shoeburyness ... | cbc | bcb | bcm₀w | bc |
| | Felixstowe ... | bifocm₀bcz₀ | bcm₀bm₀bcm₀ | bcmbm₀w | bmbcm₀ |
| | Gorleston ... | bc | bcz₀ | bz₀b | bbcm₀w |
| | Mildenhall ... | cbcm₀bc | bcbybcyb | bm₀ | bm₀wbcf |
| | Cranwell ... | bm₀bc | bcc,b | bm₀bm | bmbcm₀w |
| 3 | Birmingham ... | bc | bcb | b | b |
| | Upper Heyford | cbm₀bc | bc | bcbm₀ | bm₀bcm |
| 4 | Ross-on-Wye | bbc | bcybr | bbw | bfw |
| 5 | Hartland Point | cbc | bc | bcbc | bc |
| | Bristol ... | bfgwbc | bcb | bm₀bbcw | bcm₀fw |
| | Portland Bill ... | bc | bcbc | b | c |
| | Plymouth ... | bFm₀b | bcb | bm₀bfg | bcfm₀w |
| | The Lizard ... | bc | bc | bc | bcw |
| | Scilly (St. Mary's) | bc | bc | bcbw | bbcw |
| | Guernsey ... | | | | |
| 6 | Pembroke ... | bc | bc | bccw | cir₀ |
| 7 | Holyhead (Valley) | bcb | bbcrc | cd₀d₀ | cd₀d₀b |
| | Chester (Sealand) | cbcc | cbcb | bcbcc | ccm₀ |
| 8 | Manchester ... | bcz₀ | bcz₀ | bcbm₀ | cir₀m₀ |
| 10 | Spurn Head ... | cm₀ | bcm₀ | bz₀ | cm₀ |
| | Catterick ... | bcfbp₀robc | bccbc | bbcc | cm₀ |
| | Tynemouth ... | bcc | cbc | bcc | c |
| 11 | St. Abbs Head | obcm₀c | bccbc | bcb | bbcc |
| | Leuchars ... | bccbcc | cbc | cm₀bc | bcccw |
| 12 | Renfrew (Abbots I.) | c | c | bbcm₀ | ccm₀ |
| | Eskdalemuir ... | cproc | cpromo | cm₀w | cwc |
| | Point of Ayre... | cbcb | bccpro | cddcb | bbcc |
| 13A | Tiree ... ... | cifo odm₀ | r₀cbc | bcc | c |
| 13B | Stornoway ... | cpr | cbc | bc | cpr |
| 15 | Dalwhinnie ... | cifo | cidobc | * | bcpr₀o |
| | Aberdeen ... | cbcm₀b | bbc | bcz₀bbc | bcwc |
| | Wick ... | bcc | cpro bc | bc | bc |
| 16 | Sumburgh ... | cm₀ | crr,bc | bcb | bcprc |
| 17 | Blacksod Point | c | bc | bc | c |
| 18 | Malin Head ... | pr | r | c | r |
| | Aldergrove ... | c | cddfofoc | cb | cmoc |
| 19 | Birr Castle ... | c | pr | * | c |
| 20 | Valentia Obsy. | r | bc | c | c |
| | Roches Point | c | c | d | d |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 2nd October, 1942.

| Districts. | Forecast |
|---|---|
| 1 S.E. England<br>2 E. England ...<br>3 E. Midlands ...<br>4 W. Midlands | Light variable wind; fine, mist and fog in the morning; rather warm during day. |
| 5 S.W. England<br>6 South Wales<br>7 North Wales | Light variable wind; mainly fine, mist and fog in valleys in the morning; rather warm during day. |
| 8 N.W. England<br>9 N. Midlands ...<br>10 N.E. England | Light West to Southwest wind; fair, local fog in morning; rather warm during day. |
| 11 S.E. Scotland<br>12 S.W. Scotland & Isle of Man | Light or moderate West to Southwest wind; fair, but considerable cloud at times; average temperature. |
| 13A W. Scotland ...<br>13B N.W. Scotland | Moderate Southwest wind, fresh locally; cloudy, occasional rain; average temperature. |
| 14 Mid Scotland | As 11–12. |
| 15 N.E. Scotland | As 13 |
| 16 Orkneys and Shetlands | As 13. |
| 17 N. W. Ireland | As 11–12. |
| 18 N. E. Ireland<br>19 S. E. Ireland | As 8–10. |
| 20 S. W. Ireland | As 1–4. |

### GENERAL INFERENCE

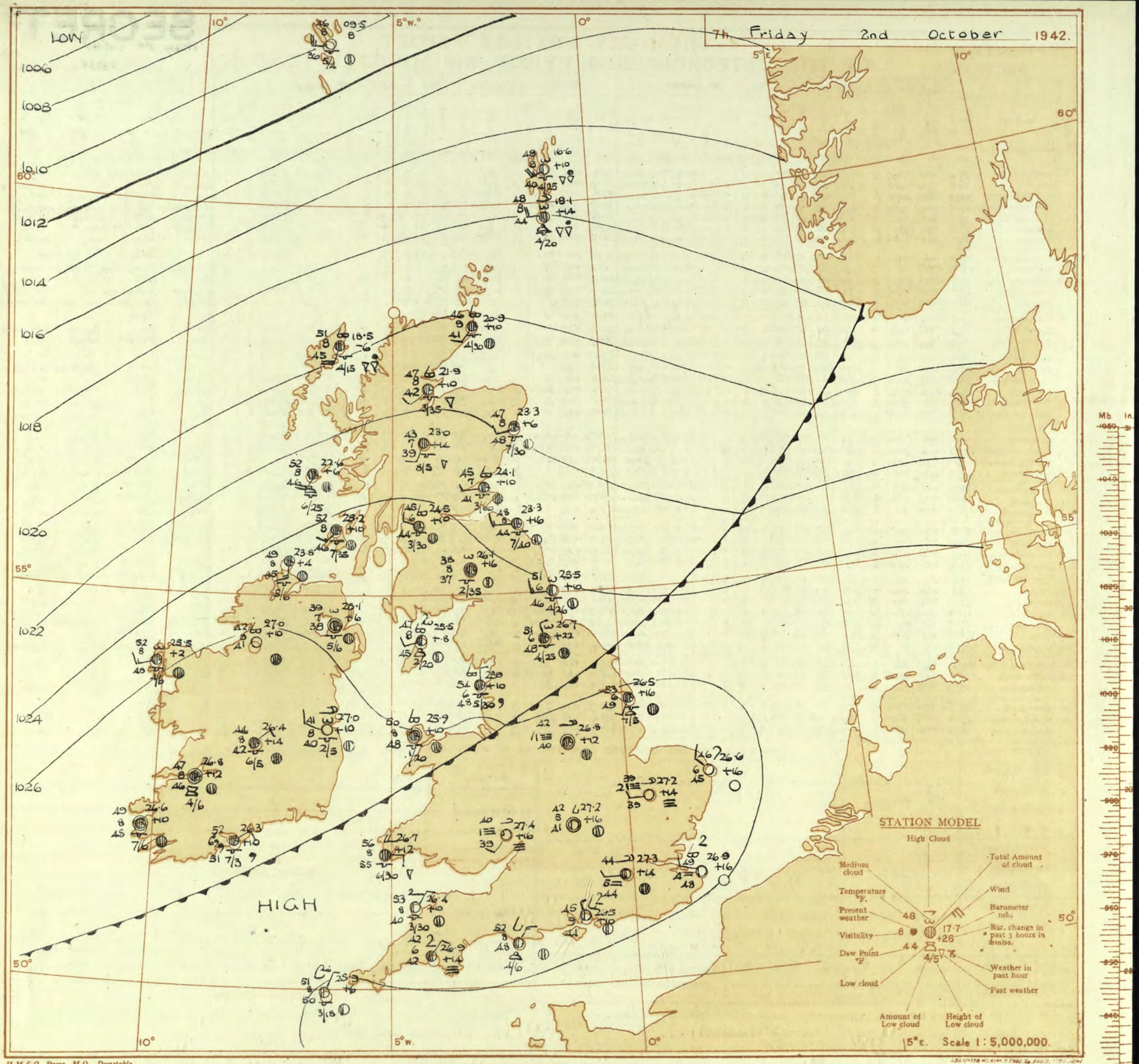
An anticyclone covers England, Wales and Ireland. Pressure is low near Iceland and feeble secondary disturbances off our northwest seaboard are moving northeast. Weather will be cloudy with occasional rain in the extreme northwest. Elsewhere it will be fair or fine apart from mist or fog in the morning.

### FURTHER OUTLOOK

Similar; fair or fine for two or three days over most of England and Wales

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

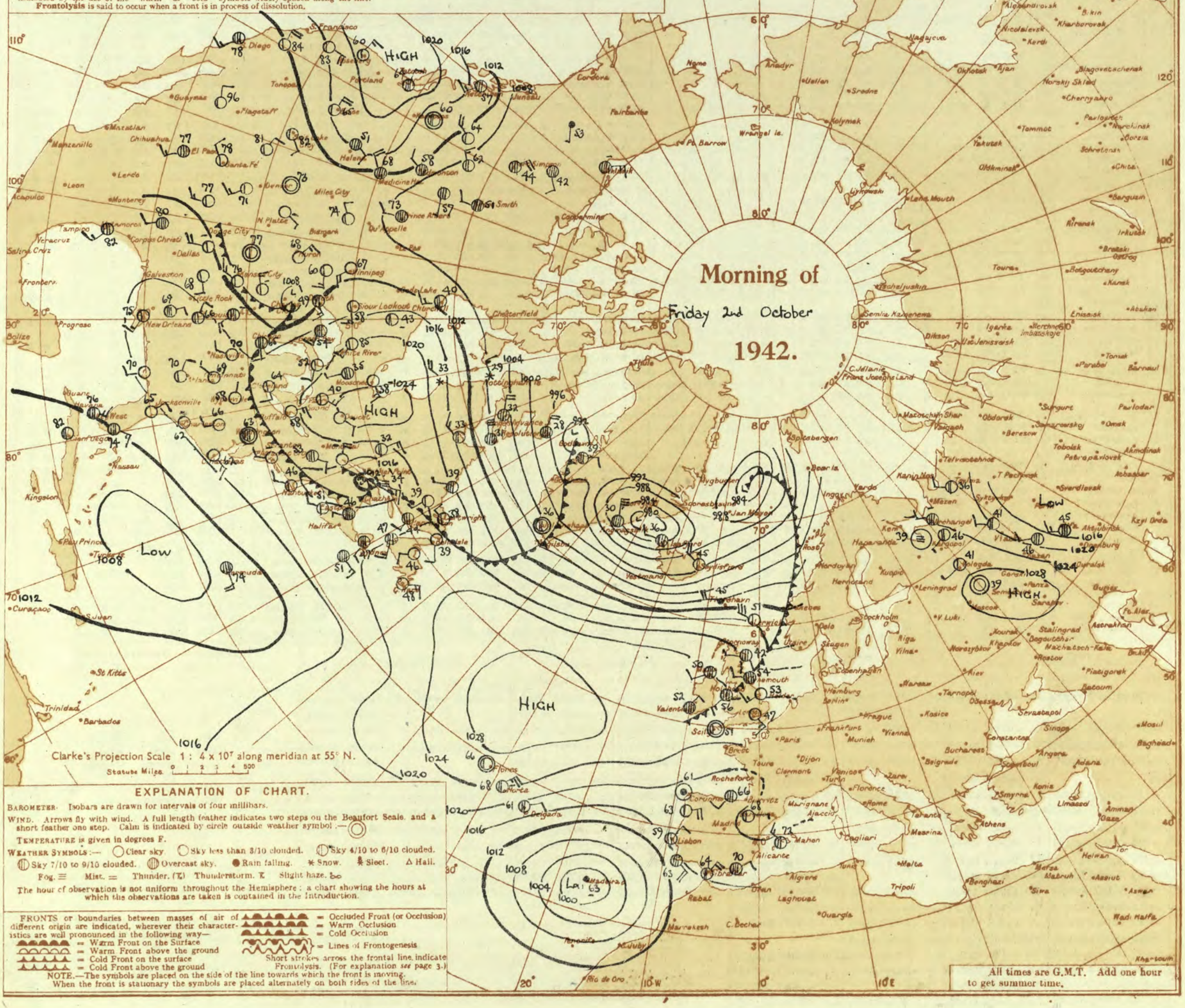
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Friday 2nd October 1942

No. 29534

## OBSERVATIONS at 1 hr. G.M.T. 2nd October

| 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 | * | * | * | * | * | 48 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 25·6 | +8 | SE | 3 | $z_0$ | 47 | 97 | 45 | 5 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 226 | 25·6 | +10 | - | 0 | $f_g$ | 44 | 97 | 43 | 6 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 417 | 25·3 | +6 | NW'N | 1 | $z_0$ | 46 | 97 | 45 | 6 | - | - | - | 0 | 0 | - |
| | Thorney Island | 10 | 25·1 | +8 | N'W | 1 | $f_g$ | 47 | 97 | 46 | 7 | - | - | - | 0 | 0 | - |
| | Lympne | 283 | 24·9 | +6 | - | 0 | bF | 49 | 97 | 49 | 1 | - | - | - | 0 | 0 | - |
| | Manston | 154 | 24·8 | +6 | WNW | 1 | m | 51 | 97 | 50 | 4 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 24·9 | +10 | W'N | 1 | m | 52 | 97 | 52 | 4 | - | - | - | 0 | 0 | - |
| | Gorleston | 5 | 24·0 | +12 | WNW | 2 | b | 51 | 85 | 47 | 7 | - | - | - | 0 | 0 | - |
| | Mildenhall | 15 | 25·0 | +12 | SW | 2 | $z_0$ | 43 | 97 | 43 | 5 | - | - | - | 0 | 0 | - |
| | Cranwell | 203 | 24·4 | +12 | WSW | 2 | m | 46 | 92 | 44 | 4 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 25·2 | +10 | - | 0 | $z_0$ | 47 | 97 | 45 | 6 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 24·9 | +4 | NW | 2 | b-bc | 53 | 85 | 50 | 8 | - | - | 3 | 0 | 2-3 | - |
| | Bristol | 209 | 26·2 | +10 | - | 0 | $z_0$ | 48 | 92 | 46 | 6 | - | - | 6 | 0 | 7-8 | - |
| | Portland Bill | 32 | 24·7 | +10 | NW | 3 | b | 55 | 85 | 51 | 8 | - | - | - | 0 | 0 | - |
| | Plymouth | 82 | 25·5 | +6 | SE | 1 | $f_s$ | 46 | 97 | 45 | 6 | - | - | 1 | 0 | 1 | - |
| | The Lizard | 240 | 24·9 | +2 | N'E | 3 | b-bc | 50 | 85 | 46 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 |
| | Scilly (St. Mary's) | 163 | 25·2 | +6 | - | 0 | b | 51 | 92 | 49 | 8 | - | - | 2 | 0 | Tr | - |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 25·2 | +8 | SW | 2 | c | 56 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 3000 |
| 7 | Holyhead (Valley) | 32 | 24·0 | +8 | SW | 3 | c/d | 56 | 92 | 53 | 7 | 5 | 3 | - | 4-6 | 9+ | 2800 |
| | Chester (Sealand) | 16 | 24·2 | +8 | - | 0 | c | 50 | 92 | 47 | 7 | 5 | 4 | - | 9 | 9+ | 3000 |
| 8 | Manchester | 235 | 24·3 | +10 | SE'S | 2 | $z_0$ | 47 | 92 | 45 | 5 | 5 | 3 | - | 2-3 | 9+ | 4000 |
| 10 | Spurn Head | 29 | 23·9 | +6 | WSW | 3 | $z_0$ | 53 | 75 | 47 | 6 | - | - | - | 0 | 0 | - |
| | Catterick | 175 | 23·5 | +14 | SSW | 2 | c | 53 | 85 | 51 | 7 | 5 | 3 | - | 7-8 | 9 | 2000 |
| | Tynemouth | 108 | 22·5 | +14 | W | 2 | c | 54 | 85 | 50 | 6 | 5 | - | - | 9 | 9 | 2500 |
| 11 | St. Abbs Head | 280 | 19·7 | +12 | W | 4 | b | 50 | 65 | 41 | 7 | 4 | - | - | 1 | 1 | 4000 |
| | Leuchars | 36 | 21·3 | +20 | W | 2 | c-bc | 48 | 85 | 44 | 8 | 5 | 3 | - | 2-3 | 7-8 | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 22·5 | +18 | W | 1 | $z_0$ | 43 | 92 | 41 | 6 | - | 3 | - | c | 4-6 | - |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 23·5 | +16 | N | 3 | b-bc | 53 | 75 | 48 | 8 | 5 | 4 | - | 1 | 2-3 | 4000 |
| 13A | Tiree | 22 | 22·0 | +12 | WNW | 1 | c | 48 | 85 | 43 | 8 | 8 | 5 | - | 4-6 | 9 | 2500 |
| 13B | Stornoway | 80 | 19·0 | +18 | WSW | 3 | b-bc | 47 | 85 | 43 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 20·7 | +18 | W | 1 | c-bc | 42 | 92 | 39 | 8 | 5 | 7 | - | 2-3 | 7-8 | 4000 |
| | Wick | 114 | 18·5 | +20 | SW | 2 | b-bc | 45 | 85 | 40 | 7 | 5 | 3 | - | 1 | 2-3 | 3000 |
| 16 | Sumburgh | 19 | 15·5 | +22 | WNW | 6 | b-bc | 51 | 65 | 40 | 8 | 1 | - | - | 2-3 | 2-3 | 2500 |
| 17 | Blacksod Point | 18 | 25·0 | +12 | - | 0 | c-bc | 45 | 92 | 43 | 8 | 5 | 5 | - | 2-3 | 7-8 | 2500 |
| 18 | Malin Head | 84 | 22·9 | +14 | W'S | 2 | c-bc | 50 | 85 | 45 | 8 | 8 | 5 | - | 2-3 | 7-8 | 2500 |
| | Aldergrove | 268 | 24·5 | +16 | - | 0 | b | 40 | 97 | 40 | 8 | - | 5 | - | 0 | 1 | - |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 25·2 | +6 | NE'N | 2 | c | 52 | 85 | 48 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| | Roches Point | 22 | 25·1 | +8 | N | 2 | c/d | 53 | 97 | 52 | 8 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 7 hr. G.M.T. 2nd October

| 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) | 27·5 | +10 | - | 0 | b-bcf | 43 | 97 | 42 | 2 | - | - | 6 | 0 | 2-3 | - | 1 | * |
| Croydon | 27·3 | +14 | W | 1 | $f_g$ | 44 | 97 | 44 | 5 | - | - | 2 | 0 | 7-8 | - | 1 | * |
| S. Farnborough | 27·7 | +18 | - | 0 | m | 40 | 92 | 38 | 4 | - | - | 2 | 0 | 7-8 | - | 1 | * |
| Boscombe Down | 27·5 | +14 | - | 0 | bcf+ | 39 | 97 | 39 | 3 | - | - | 8 | 0 | 4-6 | - | 0 | * |
| Thorney Island | 26·5 | +10 | NNW | 1 | bc | 45 | 97 | 44 | 9 | - | 4 | 6 | 0 | 4-6 | - | 0 | * |
| Lympne | 27·3 | +20 | - | 0 | $z_0$ | 47 | 97 | 47 | 6 | - | - | 1 | 0 | 2-3 | - | 1 | §1 |
| Manston | 26·9 | +16 | WNW | 1 | m | 49 | 97 | 48 | 4 | - | 7 | 6 | 0 | 2-3 | - | 1 | * |
| Shoeburyness | 26·7 | +8 | NW | 2 | b-bc | 47 | 97 | 45 | 5 | - | - | 3 | 0 | 2-3 | - | 1 | * |
| Felixstowe | 26·7 | +12 | NW'N | 2 | $z_0$ | 48 | 92 | 47 | 5 | - | - | 1 | 0 | 4-6 | - | 1 | 1 |
| Gorleston | 26·6 | +16 | NW | 2 | $z_0$ | 46 | 97 | 45 | 6 | - | - | 4 | 0 | 2-3 | - | 1 | 2 |
| Mildenhall | 27·2 | +14 | W'S | 1 | bf+ | 39 | 97 | 39 | 2 | - | - | 2 | 0 | Tr | - | 1 | * |
| Cranwell | 26·1 | +10 | SW'W | 2 | $f_g$ | 47 | 92 | 45 | 6 | - | 7 | 4 | 0 | 4-6 | - | 0 | * |
| Birmingham | 27·3 | +12 | SW | 1 | b-bc | 45 | 97 | 44 | 6 | - | - | 1 | 0 | 2-3 | - | 1 | * |
| Upper Heyford | 27·2 | +16 | - | 0 | $z_0$ | 42 | 97 | 41 | 5 | - | 4 | 4 | 0 | 2-3 | - | 0 | * |
| Ross-on-Wye | 27·4 | +16 | SW | 2 | bF | 40 | 97 | 39 | 1 | - | - | 1 | 0 | Tr | - | 1 | * |
| Hartland Point | 26·4 | +10 | NE | 2 | bc | 53 | 85 | 50 | 8 | 4 | - | 5 | 2-3 | 4-6 | 3000 | 0 | 2 |
| Bristol | 27·9 | +14 | - | 0 | b-bcf+ | 39 | 97 | 39 | 1 | - | - | 1 | 0 | 2-3 | - | 1 | * |
| Portland Bill | 26·0 | +10 | NE | 3 | c-bc | 52 | 85 | 48 | 8 | 2 | 4 | - | 4-6 | 7-8 | 4000 | 1 | 4 |
| Plymouth | 26·9 | +14 | NE | 1 | $z_0$ | 42 | 97 | 42 | 6 | - | - | 6 | 0 | 7-8 | - | 1 | 1 |
| The Lizard | 25·5 | +6 | NE | 3 | bc | 50 | 92 | 48 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| Scilly (St. Mary's) | 25·9 | +6 | NE'N | 2 | bc | 51 | 97 | 50 | 8 | 5 | 4 | 5 | 2-3 | 4-6 | 1800 | 1 | 1 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 26·7 | +12 | E'S | 2 | c | 56 | 97 | 55 | 8 | 5 | 2 | - | 9 | 10 | 3000 | 1 | 2 |
| Holyhead (Valley) | 25·9 | +10 | - | 0 | c | 50 | 97 | 48 | 8 | 5 | 7 | - | Tr | 9 | 2000 | 1 | 2 |
| Chester (Sealand) | 25·8 | +8 | SE | 1 | $z_0$ | 49 | 92 | 47 | 6 | 5 | 7 | 1 | 9 | 9+ | 2500 | 0 | * |
| Manchester | 26·0 | +6 | WSW | 2 | c | 50 | 92 | 48 | 7 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | * |
| Spurn Head | 26·5 | +16 | SW'S | 2 | c | 53 | 85 | 49 | 6 | 7 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| Catterick | 26·7 | +22 | NNW | 1 | $z_0$ | 51 | 85 | 48 | 6 | 5 | 3 | - | 4-6 | 9 | 2500 | 1 | * |
| Tynemouth | 25·5 | +10 | W | 3 | c-bc | 51 | 85 | 46 | 6 | 5 | 3 | - | 4-6 | 7-8 | 2600 | 1 | 2 |
| St. Abbs Head | 23·3 | +16 | W | 3 | c | 48 | 85 | 44 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 0 | 3 |
| Leuchars | 24·1 | +10 | W | 1 | c | 45 | 85 | 41 | 8 | 5 | 7 | - | 2-3 | 9+ | 6000 | 1 | * |
| Renfrew (Abbots I.) | 24·5 | +10 | WNW | 1 | $z_0$ | 45 | 92 | 44 | 6 | 5 | 7 | - | 2-3 | 9+ | 3000 | 1 | * |
| Eskdalemuir | 26·1 | +16 | - | 0 | c | 38 | 92 | 37 | 8 | 5 | 3 | - | 1 | 9 | 3500 | 1 | * |
| Point of Ayre | 25·5 | +8 | W'S | 2 | c-bc | 47 | 92 | 45 | 8 | 2 | 7 | 9 | 1 | 7-8 | 2000 | 1 | 2 |
| Tiree | 22·6 | +6 | SW'W | 4 | c | 52 | 85 | 46 | 8 | 8 | - | - | 9 | 9 | 2500 | 0 | 4 |
| Stornoway | 18·5 | -6 | SSW | 4 | c-bc/pr | 51 | 75 | 45 | 8 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 3 |
| Dalwhinnie | 23·3 | +14 | SSW | 2 | o | 43 | 85 | 39 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Aberdeen † | 23·3 | +6 | WSW | 2 | c | 47 | 75 | 38 | 8 | 5 | - | - | 9+ | 9+ | 3000 | 1 | 1 |
| Wick | 20·9 | +10 | SW | 2 | c | 46 | 85 | 41 | 9 | 5 | 7 | - | 4-6 | 9 | 3000 | 1 | * |
| Sumburgh | 18·1 | +14 | W | 4 | c-bc/pr | 48 | 85 | 43 | 8 | 8 | 3 | 2 | 4-6 | 7-8 | 2000 | 1 | 3 |
| Blacksod Point | 25·5 | +2 | WSW | 3 | c | 52 | 85 | 48 | 8 | 5 | 5 | - | 4-6 | 9+ | 4000 | 1 | 2 |
| Malin Head | 23·8 | +4 | S | 3 | c | 49 | 85 | 47 | 8 | 8 | - | - | 9 | 9 | 2500 | 1 | 3 |
| Aldergrove | 28·1 | +6 | - | 0 | c | 39 | 97 | 38 | 7 | 5 | 3 | - | 7-8 | 9+ | 3000 | 1 | * |
| Birr Castle | 26·4 | +14 | NE | 1 | c | 44 | 92 | 42 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 26·6 | +10 | - | 0 | c | 49 | 92 | 47 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 1 |
| Roches Point | 26·3 | +10 | NE | 2 | id | 52 | 97 | 51 | 6 | 5 | - | - | 9+ | 9+ | 800 | 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 1st Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 65 | 42 | 30 | - | Tr | 7·7 |
| Croydon | 67 | 43 | 39 | Tr | - | 6·6 |
| S. Farnborough | 69 | 38 | 30 | 0·1 | Tr | 7·7 |
| Boscombe Down | 66 | 38 | 36 | - | Tr | 8·0 |
| Thorney Island | 67 | 44 | 38 | - | - | 8·0 |
| Lympne | 68 | 46 | 37 | 1 | Tr | 6·9 |
| Manston | 63 | 47 | 39 | 2 | - | 5·0 |
| Shoeburyness | 68 | 39 | 34 | - | - | 6·8 |
| Felixstowe | 67 | 47 | 42 | Tr | - | 6·7 |
| Gorleston | 65 | 46 | 43 | 0·1 | - | 5·7 |
| Mildenhall | 67 | 38 | 33 | - | Tr | 7·9 |
| Cranwell | 64 | 43 | 37 | - | - | 8·3 |
| Birmingham | 64 | 44 | 31 | - | - | 7·6 |
| Upper Heyford | 64 | 41 | 37 | - | - | * |
| Ross-on-Wye | 64 | 39 | 37 | - | - | 10·0 |
| Hartland Point | 60 | 49 | 43 | - | - | 8·8 |
| Bristol | 66 | 38 | 31 | - | Tr | 9·7 |
| Portland Bill | 63 | 49 | * | - | - | * |
| Plymouth | 63 | 41 | 32 | - | - | 9·0 |
| The Lizard | 62 | 48 | * | - | - | 10·7 |
| Scilly (St. Mary's) | 64 | 50 | * | - | - | 9·7 |
| Guernsey | | | | | | |
| Pembroke | 59 | 51 | * | Tr | Tr | 8·9 |
| Holyhead (Valley) | 60 | 49 | 43 | - | 0·3 | * |
| Chester (Sealand) | 64 | 49 | 39 | Tr | - | 7·9 |
| Manchester | 60 | 45 | 38 | - | Tr | * |
| Spurn Head | 63 | 51 | * | Tr | - | 6·9 |
| Catterick | 61 | 51 | 42 | Tr | 0·5 | 6·3 |
| Tynemouth | 61 | 51 | 47 | - | - | * |
| St. Abbs Head | 59 | 48 | * | - | - | * |
| Leuchars | 61 | 43 | 35 | - | Tr | 5·3 |
| Renfrew (Abbots I.) | 58 | 42 | 37 | Tr | Tr | 0·6 |
| Eskdalemuir | 55 | 36 | 31 | 3 | - | 0·1 |
| Point of Ayre | 60 | 46 | * | Tr | 0·6 | 3·7 |
| Tiree | 56 | 46 | * | 0·5 | - | 3·0 |
| Stornoway | 56 | 44 | * | 0·6 | Tr | 3·3 |
| Dalwhinnie | 52 | 38 | 31 | 0·5 | 0·1 | 1·0 |
| Aberdeen † | 62 | 44 | 36 | - | - | 4·6 |
| Wick | 58 | 42 | 34 | 1 | Tr | * |
| Sumburgh | 55 | 47 | 47 | 1 | 2 | 0·7 |
| Blacksod Point | 57 | (45) | * | 0·5 | - | * |
| Malin Head | 57 | 47 | | 0·2 | Tr | 1·1 |
| Aldergrove | 57 | 38 | 32 | 1 | Tr | 1·0 |
| Birr Castle | 58 | 43 | 37 | 0·4 | - | 0·9 |
| Valentia Obsy. | 58 | 49 | 44 | 0·1 | Tr | 0·5 |
| Roches Point | 60 | 54 | * | - | 1 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| III $C_L C_M$ (13h. G.M.T. 1st October) | wwVh$N_h$ | DDFWN | $C_L C_M$ (18h. G.M.T.) | wwVh$N_h$ | DDFWN | $C_L C_M$ (01h. G.M.T. 2nd October) | wwVh$N_h$ | DDFWN | $C_L C_M$ (07h. G.M.T.) | wwVh$N_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 57 | 05675 | 17426 | 20 | 01853 | 23463 | 8- | 10764 | 22484 | 8- | 25857 | 19487 |
| 115 | | | | | | 87 | 10844 | 57525 | | | |
| 203 8- | 81837 | 24467 | 70 | 02846 | 24416 | 5! | 02844 | 20418 | 8- | 02954 | 20528 |
| 206 5· | 02867 | 20427 | 40 | 01963 | 26323 | 50 | 01861 | 22211 | 57 | 02863 | 20287 |
| 210 86 | 02864 | 22317 | 5- | 02943 | 22385 | 53 | 02861 | 18315 | 52 | 02963 | 18328 |
| 220 | | | 20 | 01854 | 25414 | | | | 87 | 02854 | 23417 |
| 230 82 | 02855 | 19487 | 9- | 02956 | 26486 | 52 | 02865 | 00028 | 87 | 02854 | 18125 |
| 245 23 | 02755 | 20416 | 4- | 02966 | 23216 | 5- | 02768 | 24157 | 07 | 02990 | 26227 |
| 260 87 | 02744 | 23427 | 5- | 02757 | 23427 | 05 | 05690 | 21315 | • | | |
| 278 73 | 02854 | 22427 | 5- | 21748 | 20358 | 53 | 01852 | 14263 | 13 | 02751 | 20217 |
| 279 87 | 02854 | 22487 | 87 | 02854 | 22327 | 5- | 02867 | 00057 | 03 | 02890 | 00027 |
| 285 27 | 81745 | 22587 | 23 | 01744 | 24415 | | | | 5- | 02857 | 24127 |
| 288 16 | 01863 | 53414 | 07 | 01890 | 20413 | 5- | 02755 | 16216 | 53 | 02764 | 00027 |
| 575 52 | 31847 | 22328 | 53 | 02854 | 28357 | 03 | 01890 | 16113 | 07 | 02890 | 10127 |
| 301 53 | 01864 | 26325 | 43 | 02763 | 24316 | 57 | 02756 | 22357 | 57 | 05665 | 32156 |
| 321 86 | 02756 | 21327 | 54 | 05652 | 26213 | 03 | 08490 | 19105 | | | |
| 299 50 | 05623 | 20103 | 40 | 01763 | 22213 | 00 | 00790 | 22200 | 53 | 05644 | 22217 |
| 292 2- | 02856 | 22326 | 50 | 01854 | 22214 | 03 | 05690 | 20114 | 5- | 45357 | 00047 |
| 310 | | | -- | 05633 | 24313 | | | | -· | 01634 | 24214 |
| 614 20 | 01765 | 18125 | 52 | 05653 | 00023 | 00 | 08490 | 22100 | 00 | 47190 | 00027 |

| III $C_L C_M$ (13h. G.M.T. 1st October) | wwVh$N_h$ | DDFWN | $C_L C_M$ (18h. G.M.T.) | wwVh$N_h$ | DDFWN | $C_L C_M$ (01h. G.M.T. 2nd October) | wwVh$N_h$ | DDFWN | $C_L C_M$ (07h. G.M.T.) | wwVh$N_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 8- | 01954 | 24315 | 55 | 02952 | 20116 | 62 | 64625 | 18468 | 53 | 02865 | 00026 |
| 334 -- | 02646 | 24217 | -- | 01763 | 24314 | | | | -- | 03437 | 22128 |
| 340 8- | 02966 | 22326 | 40 | 01961 | 22211 | 00 | 01790 | 17103 | 53 | 04864 | 17126 |
| 136 20 | 01844 | 22314 | 46 | 01761 | 24111 | 00 | 05690 | 22100 | 5- | 41456 | 25146 |
| 336 70 | 01753 | 24415 | 10 | 01752 | 28312 | | | | -- | 46309 | 32249 |
| 350 26 | 02754 | 26415 | 80 | 01753 | 22214 | 00 | 05595 | 22210 | 03 | 08490 | 24142 |
| 368 84 | 01954 | 18314 | 14 | 00961 | 28112 | 07 | 05690 | 00014 | 50 | 04562 | 00015 |
| 379 2- | 01835 | 22345 | 40 | 01851 | 24311 | 00 | 05690 | 24200 | 04 | 01890 | 00013 |
| 390 20 | 05654 | 18214 | 40 | 01654 | 20114 | 00 | 45390 | 00040 | 00 | 43390 | 00044 |
| 382 60 | 02865 | 22225 | 00 | 01890 | 00011 | 00 | 05690 | 00000 | 00 | 43190 | 00011 |
| 438 20 | 01854 | 20214 | 10 | 01863 | 20213 | 00 | 00690 | 02100 | 00 | 01790 | 32214 |
| 430 20 | 01864 | 18314 | 40 | 01853 | 22113 | 00 | 41590 | 00000 | 00 | 04890 | 32125 |
| 409 1- | 02845 | 25315 | 00 | 00890 | 31212 | 04 | 01890 | 00001 | 04 | 02990 | 06216 |

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 2nd October

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 * | cbcm$_0$ | bybcz$_0$ | ffobbc |
| Croydon | obcc | cbcb | m$_0$cm$_0$m |
| Greenwich | c | cbcyb | bmwbcm |
| Camden Square | c | b | * |
| *Kensington | bc | bc | * |
| Hampstead | bc | bcm | bc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. 0·4 Time 20h 1st. Min. <0·1 Time 12-14h 1st

| 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 | 42 | 30 | - | Tr | 7·7 | * | * |
| Croydon | 67 | 43 | 39 | Tr | - | 6·6 | * | * |
| Greenwich | 68 | 42 | 30 | - | Tr | 6·1 | 55 | 84 |
| Westminster | 67 | 50 | 40 | Tr | | | 61 | 98 |
| Regents Park | 67 | 43 | 38 | - | - | | 44 | 81 |
| Camden Square | 69 | 44 | 37 | - | - | * | * | 86 |
| Kensington | 68 | 44 | 30 | - | Tr | | 66 | 88 |
| Hampstead | 66 | 45 | 40 | - | - | | * | 75 |

**SECRET**

Page 1 **BRITISH SECTION**

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

Saturday 3rd October 1942

No. 29535

## OBSERVATIONS at 13h. G.M.T. 2nd October

| 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) | Med. (11) | High (12) | Amount Low 0–10 (13) | Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 26·9 | -8 | SW'S | 2 | bc | 61 | 65 | 48 | 7 | - | 5 | 4 | 0 | 4-6 | - |
| | Croydon | 26·8 | -6 | S'W | 2 | zo | 69 | 55 | 54 | 6 | 1 | - | 3 | 1 | 4-6 | 3500 |
| | S. Farnborough | 26·8 | -6 | WSW | 2 | bc | 68 | 55 | 50 | 8 | 1 | - | 2 | 1 | 4-6 | 3500 |
| | Boscombe Down | 26·8 | -6 | SW | 1 | c-bc | 66 | 65 | 53 | 8 | 1 | - | 4 | Tv | 7-8 | 4000 |
| | *Thorney Island | 26·8 | -4 | S | 3 | b-bc | 66 | 65 | 54 | 8 | 1 | - | 2 | 1 | 2-3 | 4000 |
| | Lympne | 27·0 | -6 | SE | 2 | zo | 64 | 75 | 56 | 6 | 2 | 6 | 1 | 1 | 1 | 3000 |
| | Manston | 26·6 | -10 | SSE | 1 | zo | 66 | 65 | 52 | 6 | 1 | - | 4 | Tv | 1 | 2500 |
| 2 | Shoeburyness | 27·0 | -10 | SE | 1 | b-bc | 65 | 75 | 55 | 6 | 1 | - | 4 | Tv | 2-3 | 3500 |
| | Felixstowe | 26·9 | -6 | E'S | 2 | zo | 64 | 75 | 54 | 6 | 1 | - | 4 | Tv | 4-6 | 4000 |
| | Gorleston | 27·2 | 0 | SSE | 1 | bc | 62 | 65 | 52 | 6 | 1 | 7 | 1 | 2-3 | 4-6 | 2000 |
| | Mildenhall | 26·8 | -6 | W | 1 | bc | 67 | 55 | 52 | 7 | 1 | - | 2 | Tv | 4-6 | 4000 |
| | Cranwell | 26·2 | -10 | WSW | 2 | c | 64 | 65 | 51 | 8 | 7 | - | - | 9+ | 9+ | 3000 |
| 3 | Birmingham | 26·5 | -2 | SW | 2 | bc | 62 | 55 | 46 | 8 | - | - | 8 | 0 | 9 | - |
| | Upper Heyford | 26·7 | -6 | WSW | 1 | zo | 64 | 55 | 47 | 6 | - | - | 6 | 0 | 7-8 | - |
| 4 | Ross-on-Wye | 26·4 | -8 | N'W | 2 | b-bc | 60 | 75 | 52 | 8 | 1 | - | 2 | Tv | 2-3 | 3500 |
| 5 | Hartland Point | 26·8 | -14 | NE | 2 | bc | 59 | 85 | 53 | 8 | 1 | 4 | 2 | 0 | 4-6 | 4000 |
| | Bristol | 27·3 | -6 | SW | 1 | zo | 64 | 65 | 53 | 6 | 1 | 8 | 4 | Tv | 4-6 | 4000 |
| | Portland Bill | 26·9 | -4 | NE | 3 | c-bc | 60 | 85 | 56 | 8 | 2 | 4 | - | 4-6 | 7-8 | 4000 |
| | Plymouth | 27·1 | +2 | SSW | 2 | bc | 63 | 65 | 52 | 8 | 1 | 4 | 4 | 1 | 4-6 | 3000 |
| | The Lizard | 26·0 | +4 | NE | 2 | bc | 61 | 85 | 56 | 8 | 2 | 6 | - | 4-6 | 4-6 | 3500 |
| | Scilly (St. Mary's) | 26·9 | 0 | NE'E | 2 | b-bc | 62 | 75 | 53 | 8 | 8 | 4 | 6 | 2-3 | 2-3 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 27·5 | -4 | S'W | 1 | c | 58 | 92 | 55 | 8 | 5 | 2 | - | 9 | 10 | 3000 |
| 7 | Holyhead (Valley) | 26·8 | +2 | W'S | 3 | c | 59 | 75 | 52 | 8 | 5 | 7 | - | Tv | 10 | 2500 |
| | Chester (Sealand) | 26·2 | -6 | S | 1 | ido | 58 | 85 | 54 | 6 | 5 | 2 | - | 9 | 10 | 3500 |
| 8 | Manchester | 26·3 | -6 | S | 2 | c | 57 | 85 | 53 | 6 | 5 | 7 | - | 2-3 | 10 | 4000 |
| 10 | Spurn Head | 26·5 | -4 | SW | 2 | c | 60 | 75 | 51 | 7 | 5 | 3 | - | 4-6 | 9+ | 2800 |
| | Catterick | 26·0 | -6 | W'S | 2 | c | 59 | 65 | 45 | 7 | 5 | - | 8 | 4-6 | 9+ | 3000 |
| | Tynemouth | 25·8 | -6 | E | 3 | c-bc | 56 | 75 | 48 | 7 | 5 | 3 | - | 4-6 | 7-8 | 3200 |
| 11 | St. Abbs Head | 24·7 | +2 | SW | 2 | c | 53 | 75 | 47 | 7 | 5 | 4 | - | 7-8 | 9+ | 3000 |
| | Leuchars | 24·0 | -6 | WSW | 3 | zo | 55 | 75 | 49 | 6 | 1 | 3 | - | 2-3 | 9+ | 4500 |
| 12 | Renfrew (Abbots I.) | 24·7 | -6 | WSW | 4 | c | 57 | 55 | 43 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| | Eskdalemuir | 25·3 | -2 | SW | 3 | voyo | 52 | 85 | 48 | 8 | 8 | 7 | - | 2-3 | 7-8 | 2500 |
| | Point of Ayre | 26·5 | 0 | NWW | 3 | c | 57 | 75 | 47 | 8 | 8 | 3 | 6 | Tv | 9+ | 3000 |
| 13A | Tiree | 23·0 | +2 | W'S | 4 | c/pv | 53 | 92 | 51 | 8 | 8 | - | - | 9+ | 9+ | 3000 |
| 13B | Stornoway | 19·1 | +8 | WSW | 5 | c | 53 | 85 | 48 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| 15 | Dalwhinnie | 22·6 | -4 | SW | 3 | c | 53 | 75 | 46 | 8 | 5 | 4 | - | 7-8 | 9 | 2500 |
| | Aberdeen | 22·7 | -8 | SSW | 2 | bc | 56 | 65 | 45 | 8 | - | 7 | - | 0 | 4-6 | - |
| | Wick | 20·2 | -6 | SSW | 3 | c | 53 | 75 | 46 | 9 | 5 | 3 | - | 4-6 | 9+ | 3500 |
| 16 | Sumburgh | 17·5 | -2 | SW | 7 | pv | 51 | 85 | 45 | 8 | 3 | 7 | - | 7-8 | 9+ | 2500 |
| 17 | Blacksod Point | 26·4 | 0 | WSW | 3 | o | 56 | 85 | 52 | 8 | 8 | - | - | 10 | 10 | 2500 |
| 18 | Malin Head | 24·7 | +2 | SW'S | 3 | c | 54 | 75 | 47 | 8 | 5 | 2 | - | 7-8 | 9+ | 1500 |
| | Aldergrove | 27·7 | +10 | SW | 2 | c | 54 | 75 | 46 | 7 | 8 | 7 | 1 | 2-3 | 9+ | 3000 |
| 19 | *Birr Castle | 27·0 | -2 | N | 2 | c | 57 | 65 | 46 | 8 | 8 | 7 | - | 7-8 | 10 | 2500 |
| 20 | Valentia Obsy. | 27·5 | 0 | W'N | 2 | c | 57 | 75 | 50 | 8 | 8 | - | 2 | 7-8 | 9 | 4000 |
| | Roches Point | 26·9 | 0 | N | 2 | c | 56 | 85 | 52 | 8 | 5 | - | - | 9+ | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 2nd October

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 25·8 | -4 | — | 0 | zo | 57 | 85 | 51 | 5 | — | — | 6 | 0 | 7-8 | — | 1 | · |
| Croydon | 26·2 | -2 | SW | 1 | fg | 61 | 75 | 52 | 5 | — | 4 | 2 | 0 | 4-6 | — | 1 | · |
| S. Farnborough | 25·8 | -8 | — | 0 | b-bc | 62 | 75 | 53 | 7 | — | 5 | 4 | 0 | 2-3 | — | 0 | · |
| Boscombe Down | 25·9 | -4 | WNW | 1 | c-bc | 60 | 75 | 53 | 8 | 5 | 3 | 2 | 2-3 | 7-8 | 4000 | 0 | · |
| *Thorney Island | 26·0 | -6 | — | 0 | b-bc | 59 | 85 | 52 | 7 | — | - | 2 | 0 | 2-3 | — | 0 | · |
| Lympne | 26·5 | -2 | SE | 1 | zo | 55 | 92 | 53 | 6 | — | — | - | 0 | 2-3 | — | 1 | 1 |
| Manston | 26·1 | -4 | E'S | 1 | zo | 59 | 92 | 56 | 6 | — | — | 2 | 0 | 2-3 | — | 1 | · |
| Shoeburyness | 26·4 | -4 | SE | 2 | c-bc | 60 | 85 | 57 | 6 | — | - | 2 | 0 | 7·8 | — | 0 | · |
| Felixstowe | 26·2 | -4 | SSE | 1 | zo | 59 | 92 | 55 | 7 | — | — | 6 | 0 | 7-8 | — | 0 | · |
| Gorleston | 26·6 | 0 | SW'S | 1 | bc | 59 | 85 | 53 | 6 | — | 7 | 1 | 0 | 4-6 | — | 0 | 2 |
| Mildenhall | 26·0 | -2 | — | 0 | c-bc | 60 | 85 | 54 | 6 | — | — | 2 | 0 | 7-8 | — | 0 | · |
| Cranwell | 25·5 | -2 | W | 1 | zo | 60 | 85 | 54 | 6 | 5 | — | — | 9+ | 9+ | 5000 | 0 | · |
| Birmingham | 26·1 | -2 | SW | 2 | zo | 60 | 75 | 52 | 6 | 5 | 7 | - | 4-6 | 9 | 2500 | 1 | · |
| Upper Heyford | 26·0 | -2 | W'N | 1 | zo | 57 | 75 | 49 | 6 | — | 5 | 6 | 0 | 4-6 | - | 0 | · |
| Ross-on-Wye | 25·7 | -4 | SW'S | 1 | zo | 57 | 75 | 50 | 5 | - | - | 9 | 0 | 1 | — | 1 | · |
| Hartland Point | 26·1 | -2 | NNE | 2 | bc | 57 | 85 | 53 | 8 | 4 | — | — | 2-3 | 4-6 | 3000 | 0 | 3 |
| Bristol | 26·6 | -2 | W'S | 1 | bcjf | 58 | 85 | 52 | 6 | — | 8 | 4 | 0 | 4·6 | - | 1 | · |
| Portland Bill | 25·3 | -6 | E | 2 | c | 59 | 85 | 56 | 8 | 5 | 4 | — | 4-6 | 9 | 4000 | 1 | 3 |
| Plymouth | 26·3 | -2 | — | 0 | bc | 57 | 92 | 56 | 7 | — | 6 | 4 | 0 | 4-6 | - | 0 | 2 |
| The Lizard | 25·5 | -4 | — | 0 | bc | 56 | 92 | 54 | 8 | 7 | 6 | - | 4-6 | 4-6 | 3000 | 0 | 3 |
| Scilly (St. Mary's) | 26·3 | 0 | NNE | 1 | c-bc | 56 | 85 | 52 | 7 | 5 | 4 | - | 9 | 9 | 1800 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 26·9 | -4 | W'N | 2 | c | 57 | 85 | 53 | 8 | 8 | 7 | - | 7-8 | 9 | 3000 | 1 | 2 |
| Holyhead (Valley) | 27·0 | +4 | — | 0 | c | 53 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 2000 | 1 | 2 |
| Chester (Sealand) | 26·6 | +4 | NNW | 2 | zo | 55 | 85 | 50 | 6 | 5 | 7 | - | 9+ | 10 | 3000 | 0 | · |
| Manchester | 26·2 | 0 | W | 2 | m | 55 | 85 | 51 | 4 | 5 | 7 | - | 4-6 | 10 | 1000 | 1 | · |
| Spurn Head | 26·3 | 0 | NW'N | 2 | o | 58 | 85 | 54 | 5 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| Catterick | 26·1 | 0 | SW | 1 | c-bc | 55 | 75 | 45 | 7 | 5 | 9 | 2 | 2-3 | 7-8 | 5000 | 0 | · |
| Tynemouth | 25·0 | +2 | W | 2 | c | 54 | 75 | 42 | 6 | 5 | - | - | 9 | 9 | 3200 | 1 | 2 |
| St. Abbs Head | 24·8 | +8 | W | 3 | c | 53 | 65 | 42 | 7 | 5 | 6 | - | 7-8 | 9+ | 3000 | 0 | 3 |
| Leuchars | 24·1 | +8 | WSW | 3 | c-bc | 53 | 75 | 45 | 7 | 5 | 9 | - | 2-3 | 7-8 | 5000 | 0 | · |
| Renfrew (Abbots I.) | 24·6 | +6 | WSW | 3 | c/pr | 52 | 85 | 47 | 8 | 8 | 7 | 2 | 4-6 | 9+ | 2000 | 1 | · |
| Eskdalemuir | 25·6 | +6 | SW'W | 3 | c | 49 | 75 | 42 | 8 | 5 | 7 | - | 7-8 | 9 | 2500 | 1 | · |
| Point of Ayre | 26·2 | -2 | WNW | 3 | c | 52 | 85 | 47 | 8 | 5 | 4 | 5 | 7-8 | 9 | 7000 | 0 | 2 |
| Tiree | 23·5 | +6 | NW'W | 4 | cjp | 52 | 85 | 48 | 8 | 8 | - | - | 9 | 9 | 2500 | 0 | 5 |
| Stornoway | 20·7 | +8 | WNW | 5 | bc/pr | 47 | 92 | 44 | 8 | 2 | 4 | - | 2-3 | 4-6 | 2500 | 1 | 2 |
| Dalwhinnie | 23·2 | +4 | SW | 2 | c | 47 | 85 | 43 | 7 | 5 | 1 | - | 7-8 | 10 | 1500 | 1 | · |
| Aberdeen | 22·1 | +2 | WSW | 2 | c | 54 | 75 | 45 | 7 | 5 | 3 | - | 9 | 9+ | 6000 | 1 | 1 |
| Wick | 20·8 | +4 | SW | 3 | c/pr | 49 | 85 | 45 | 9 | 8 | 1 | - | 7-8 | 10 | 2000 | 1 | · |
| Sumburgh | 17·6 | +4 | W | 6 | bc/pr | 50 | 75 | 42 | 8 | 8 | 3 | - | 4-6 | 4-6 | 2000 | 1 | 4 |
| Blacksod Point | 26·9 | +2 | — | 0 | c | 53 | 92 | 51 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 1 |
| Malin Head | 25·0 | +4 | W | 3 | c-bc | 52 | 85 | 48 | 8 | 8 | 2 | - | 4-6 | 7-8 | 2500 | 1 | 4 |
| Aldergrove | 26·3 | -2 | WNW | 2 | c | 53 | 75 | 45 | 8 | 8 | 7 | - | 1 | 9+ | 3000 | 1 | · |
| *Birr Castle | 23·6 | -2 | NW | 1 | bc | 51 | 97 | 50 | 8 | 5 | - | 8 | 2-3 | 4-6 | 2500 | 1 | · |
| Valentia Obsy. | 27·5 | +2 | NW | 2 | b-bc | 54 | 75 | 46 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 | 1 | 2 |
| Roches Point | 26·7 | 0 | N | 1 | bc | 55 | 85 | 51 | 8 | 5 | 3 | 1 | 2-3 | 4-6 | 2500 | 1 | 2 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 2nd (39) | 13h.—18h. 2nd (40) | 18h. 2nd to 1h. 3rd (41) | 1h.–7h. 3rd. (42) |
|---|---|---|---|---|
| London (Kew) | ffwbc | cbcmo | bffFw | oFew |
| Croydon | bfgbozom | bczocybczo | bcfg bm | bmbf |
| S. Farnborough | cmbcmoy | bcybc | bcbmow | bm w F |
| Boscombe Down | bfwcbcc | bc | bcwbf | bfbcf |
| *Thorney Island | bcwbc | bcybfg | bfgbmow | bm bfgw |
| Lympne | bcmobzo | bzobbc | bcbwff | bfFeFe |
| Manston | bcmobmo | bzobcmo | bf | of- |
| Shoeburyness | bcmobczo | bczocmo | bcmo | FeFe |
| Felixstowe | bcmobczo | czo | cbmobfbzo | cmo wcm |
| Gorleston | bczo | ccbbczo | bczowb | off |
| Mildenhall | bfwbzbcy | bcycyc | cmobcmob | bfbFwoFw |
| Cranwell | bcmoc | cczo | cmcirom | cm |
| Birmingham | bbc | bcc | co | om |
| Upper Heyford | bcz | bczoy | bczomdom | bfoF |
| Ross-on-Wye | bbc | bc | cmbmb | bwmcf |
| Hartland Point | bc | bc | bc | bbcw |
| Bristol | bcfFgbczo | czocc | bcmojfbm | bmoFw |
| Portland Bill | bcc | c | bcb | bcc |
| Plymouth | bmobbc | cb | bmbmw | bmbmow |
| The Lizard | bc | bc | bcw | bcw |
| Scilly (St. Mary's) | bc | cbc | bcbw | bbcw |
| Guernsey | | | | |
| Pembroke | c | c | cbcw | bccw |
| Holyhead (Valley) | c | cidoc | c | cmo |
| Chester (Sealand) | cobmo | cmoido | bmocm | cmmo ido |
| Manchester | cmido | cidomom | cxmmo | cmomw |
| Spurn Head | cmo | omo | cm. | cmo |
| Catterick | cbcc | c | bcmocmo | cmoc |
| Tynemouth | cbcc | c | cbc | bc |
| St. Abbs Head | c | c | cbc | bcc |
| Leuchars | c | cmocbcc | cbcmo | cmocwd |
| Renfrew (Abbots I.) | cmo | cproc | cbcbbc | bccmocm |
| Eskdalemuir | c | c | cm | cmomc |
| Point of Ayre | c | cbcb | cbcc | c |
| Tiree | cpr | cjp | bc | probcc |
| Stornoway | crrc | cprbc | bbc | bccpr |
| Dalwhinnie | oirocc | ciroo | · | oirc |
| Aberdeen | bc | c | c | c |
| Wick | c | cproc | bc | bc |
| Sumburgh | bccpro | crorrprc | cprprhb | bcprphpr |
| Blacksod Point | c | c | c | r |
| Malin Head | r | pr | pr | r |
| Aldergrove | c | e | cbccbc | bcc |
| *Birr Castle | c | bc | · | c |
| Valentia Obsy. | c | bc | bc | bc |
| Roches Point | d | c | b | bc |

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

**DISTRICTS.**

1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England, 6 South Wales:
Light variable winds, mainly Easterly in the South. Fine but rather hazy except in Southwest. Fairly general fog developing tonight. Day temperatures above average but some ground frost at night.

7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England:
Light variable winds becoming moderate Southerly veering Southwest, cloudy, local slight rain or drizzle but probably rather more continuous rain in North this evening; moderate visibility; average temperature.

11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland:
Moderate to fresh Southwest to South wind veering West-north-west in the Northwest later. Fair in East at first but rain spreading from West to all districts during today; some improvement spreading slowly southeast to the Northwest of the area during tonight and tomorrow morning; visibility good except in rain; average temperature.

16 Orkneys and Shetlands:
Fresh westerly wind, decreasing somewhat, fair becoming cloudy with local slight rain tonight; good visibility; average temperature.

17 N. W. Ireland, 18 N. E. Ireland:
Moderate to fresh South wind, veering Northwest later; rain, but improving from Northwest during the night; moderate to good visibility; average temperature.

19 S. E. Ireland, 20 S. W. Ireland:
Light to moderate Southerly wind, veering Northwest in the Southwest tomorrow; cloudy with some local rain in Southwest; visibility mainly good; average temperature.

**GENERAL INFERENCE**

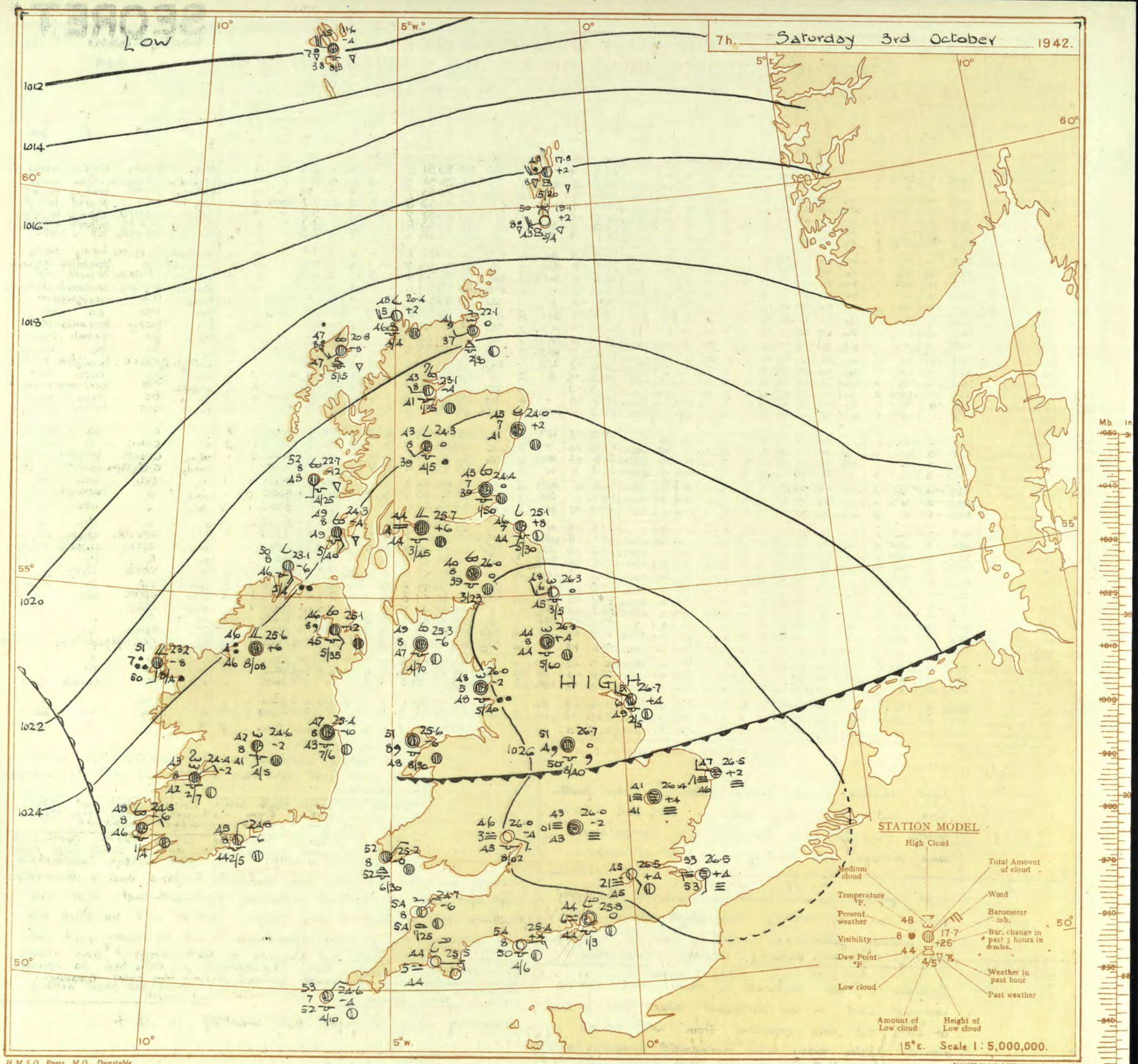
Pressure is high over East and Southeast England and a depression West-north-west of Ireland is moving East-north-east. Over the Southern half of England and Wales, weather will be fine but with extensive fog at night. Elsewhere it will be cloudy with rain spreading from West, but amounts in North England and Wales will possibly be slight. Some improvement is expected to spread slowly Southeast from Northwest Scotland during the night. Average temperatures in the north; day temperatures above average in South but some ground frost at night.

**FURTHER OUTLOOK**

Remaining fine in South but unsettled in 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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

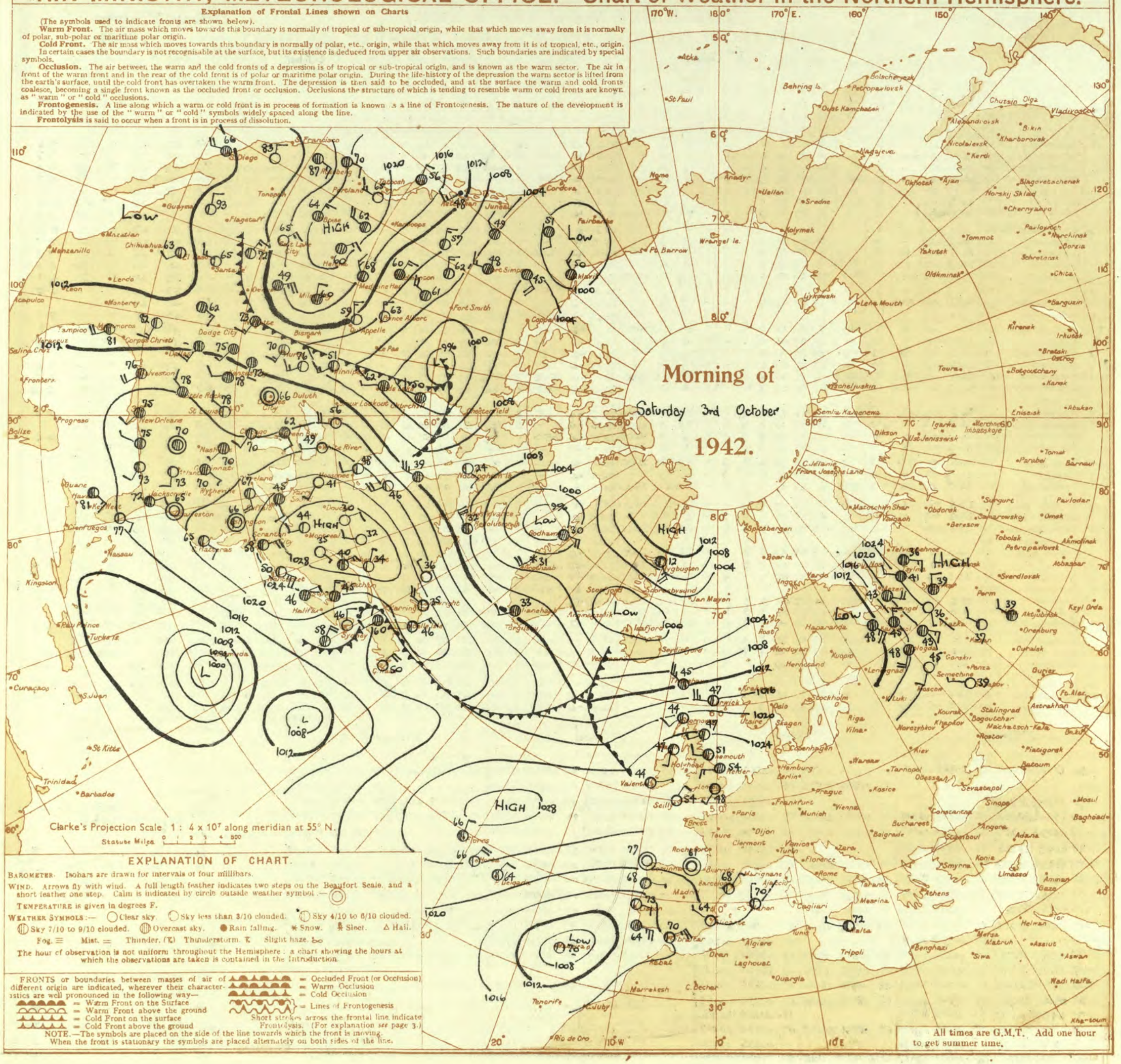
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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




## 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.

Saturday 3rd October 1942

No. 29535

## OBSERVATIONS at 1 hr. G.M.T. 3rd October

| 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 | * | * | * | * | * | 48 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 26·5 | +2 | SSW | 1 | m | 48 | 97 | 48 | 4 | – | – | 1 | 0 | Tr | – |
| | S. Farnborough | 226 | 26·6 | +2 | – | 0 | fg | 44 | 97 | 43 | 5 | – | – | – | 0 | 0 | – |
| | Boscombe Down | 417 | 26·7 | +2 | – | 0 | bf | 46 | 97 | 46 | 3 | – | 3 | – | 0 | Tr | – |
| | Thorney Island | 10 | 26·1 | -2 | N'W | 1 | z0 | 48 | 92 | 47 | 6 | – | – | 1 | 0 | 1 | – |
| | Lympne | 283 | 26·8 | -2 | – | 0 | b-bcF+ | 50 | 97 | 50 | 1 | – | – | 1 | 0 | 2-3 | – |
| | Manston | 154 | 26·4 | -4 | – | 0 | F | 52 | 97 | 52 | 0 | – | – | – | 10 | 10 | <150 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 26·2 | -2 | – | 0 | z0 | 55 | 97 | 55 | 5 | – | – | 6 | 0 | 9 | – |
| | Gorleston | 5 | 26·2 | -2 | W | 2 | z0 | 55 | 92 | 53 | 6 | – | 7 | – | 0 | 2-3 | – |
| | Mildenhall | 15 | 26·0 | -2 | SW | 1 | bf+ | 46 | 97 | 46 | 3 | – | – | – | 0 | 0 | – |
| | Cranwell | 203 | 26·4 | -2 | N'W | 1 | m/r | 55 | 85 | 51 | 4 | 5 | – | – | 10 | 10 | 3000 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 26·2 | -2 | NW | 1 | m | 47 | 97 | 46 | 4 | – | – | – | 0 | 0 | – |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 26·2 | -4 | NE | 1 | bc | 56 | 92 | 55 | 8 | 1 | – | – | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 27·0 | -4 | – | 0 | m | 45 | 97 | 45 | 4 | – | – | – | 0 | 0 | – |
| | Portland Bill | 32 | 25·5 | -2 | E | 2 | b | 54 | 85 | 50 | 8 | – | – | – | 0 | 0 | – |
| | Plymouth | 82 | 26·5 | -2 | – | 0 | m | 48 | 97 | 47 | 4 | – | – | – | 0 | 0 | – |
| | The Lizard | 240 | 25·2 | -2 | NE'N | 2 | b-bc | 52 | 92 | 50 | 8 | 4 | – | – | 2-3 | 2-3 | 2500 |
| | Scilly (St. Mary's) | 163 | 26·0 | -6 | NEN | 2 | b | 54 | 97 | 53 | 8 | – | – | – | 0 | 0 | – |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 26·5 | -6 | W'N | 1 | b-bc | 55 | 85 | 51 | 8 | 4 | – | – | 2-3 | 2-3 | 4000 |
| 7 | Holyhead (Valley) | 32 | 26·5 | -2 | – | 0 | c | 51 | 92 | 49 | 8 | 5 | 3 | – | 7-8 | 9+ | 4000 |
| | Chester (Sealand) | 16 | 26·7 | -2 | – | 0 | m | 52 | 92 | 48 | 4 | 5 | – | – | 9 | 9 | 4000 |
| 8 | Manchester | 235 | 26·6 | -2 | S'E | 1 | z0 | 50 | 97 | 49 | 5 | 5 | – | – | 9 | 9 | 3300 |
| 10 | Spurn Head | 29 | 16·5 | 0 | W'N | 3 | c | 54 | 85 | 50 | 6 | 7 | 3 | – | 7-8 | 9+ | 2500 |
| | Catterick | 175 | 26·7 | -2 | – | 0 | z0 | 46 | 97 | 46 | 6 | – | 3 | – | 0 | 9 | – |
| | Tynemouth | 108 | 25·9 | 0 | W | 2 | bc | 51 | 85 | 47 | 6 | 5 | 3 | – | 2-3 | 4-6 | 2500 |
| 11 | St. Abbs Head | 280 | 23·8 | +2 | W | 3 | b-bc | 48 | 85 | 44 | 7 | 5 | – | – | 2-3 | 2-3 | 2500 |
| | Leuchars | 36 | 24·0 | +2 | – | 0 | z0 | 47 | 92 | 45 | 6 | – | 7 | – | 0 | 7-8 | – |
| 12 | Renfrew (Abbots I.) | 19 | 25·1 | +4 | – | 0 | bc | 48 | 92 | 46 | 7 | 5 | 3 | – | 4-6 | 4-6 | 2800 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 26·1 | 0 | NW'N | 3 | c-bc | 53 | 85 | 48 | 8 | 5 | – | – | 7-8 | 7-8 | 6000 |
| 13A | Tiree | 22 | 24·6 | 0 | – | 0 | b-bc | 45 | 97 | 44 | 7 | 5 | 7 | – | 1 | 2-3 | 2500 |
| 13B | Stornoway | 80 | 22·1 | +6 | SW | 2 | bc | 44 | 92 | 42 | 7 | 2 | 4 | – | 2-3 | 4-6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 23·6 | +2 | W'S | 1 | bc | 47 | 92 | 46 | 9 | 5 | 7 | – | 2-3 | 4-6 | 3000 |
| | Wick | 114 | 21·9 | +6 | SW | 1 | bc | 42 | 85 | 38 | 8 | 5 | 3 | – | 1 | 4-6 | 3000 |
| 16 | Sumburgh | 19 | 18·6 | +4 | W | 6 | b-bc | 50 | 75 | 41 | 8 | 2 | – | – | 2-3 | 2-3 | 2000 |
| 17 | Blacksod Point | 18 | 25·5 | -10 | SW | 2 | c | 52 | 92 | 50 | 8 | 5 | – | – | 10 | 10 | 1500 |
| 18 | Malin Head | 84 | 24·6 | -6 | S | 1 | bc | 47 | 85 | 45 | 8 | 8 | 5 | – | 1 | 4-6 | 1500 |
| | Aldergrove | 268 | 26·7 | 0 | ESE | 1 | b | 42 | 92 | 40 | 7 | – | 3 | – | 0 | Tr | – |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 26·1 | -12 | ENE | 1 | b | 44 | 92 | 42 | 8 | 5 | – | 4 | Tr | 1 | 4000 |
| | Roches Point | 22 | 26·8 | -2 | NNE | 2 | b | 47 | 92 | 45 | 8 | – | – | – | 0 | 0 | – |

## OBSERVATIONS at 7 hr. G.M.T. 3rd October

| 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) | 26·4 | +2 | – | 0 | F | 45 | 97 | 44 | 1 | – | – | – | 10 | 10 | <150 | 1 | * |
| Croydon | 26·5 | +4 | SSE | 2 | b-bcF+ | 45 | 97 | 45 | 2 | – | – | 2 | 0 | 2-3 | – | 1 | * |
| S. Farnborough | 26·5 | -2 | – | 0 | b-bcF+ | 38 | 97 | 37 | 0 | 5 | – | 1 | 2-3 | 2-3 | 2000 | 0 | * |
| Boscombe Down | 25·7 | -6 | NNE | 3 | b-bcf | 41 | 97 | 40 | 2 | – | 7 | 1 | 0 | 2-3 | – | 0 | * |
| Thorney Island | 25·8 | 0 | – | 0 | fg | 44 | 97 | 44 | 6 | 5 | 4 | 1 | Tr | 1 | 800 | 1 | * |
| Lympne | 26·5 | +2 | – | 0 | bF+ | 50 | 97 | 50 | 1 | – | – | – | 0 | 0 | – | 1 | § 1 |
| Manston | 26·5 | +4 | S | 1 | F– | 53 | 97 | 53 | 1 | – | – | – | 10 | 10 | <150 | 1 | * |
| Shoeburyness | 26·2 | 0 | – | 0 | F+ | 50 | 97 | 49 | 1 | – | – | – | 10 | 10 | <150 | 0 | * |
| Felixstowe | 26·3 | +2 | – | 0 | m | 56 | 97 | 55 | 4 | 5 | – | – | 10 | 10 | 400 | 1 | 1 |
| Gorleston | 26·5 | +2 | NW'W | 2 | F+ | 47 | 97 | 46 | 1 | – | – | – | 10 | 10 | <150 | 0 | 2 |
| Mildenhall | 26·4 | +4 | – | 0 | F | 41 | 97 | 41 | 1 | – | – | – | 10 | 10 | <150 | 1 | * |
| Cranwell | 26·4 | +2 | N'W | 2 | m | 52 | 92 | 50 | 4 | 5 | 3 | – | 7-8 | 9+ | 4000 | 0 | * |
| Birmingham | 26·3 | -2 | E | 1 | m | 53 | 92 | 51 | 4 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| Upper Heyford | 26·0 | -2 | – | 0 | F+ | 43 | 97 | 43 | 0 | – | – | – | 10 | 10 | <150 | 0 | * |
| Ross-on-Wye | 26·0 | -4 | ESE | 1 | cf | 46 | 97 | 45 | 3 | 5 | – | – | 10 | 10 | 200 | 1 | * |
| Hartland Point | 24·7 | -6 | NE | 1 | bc | 54 | 97 | 54 | 8 | 1 | – | 5 | Tr | 4-6 | 2500 | 1 | 2 |
| Bristol | 26·5 | -2 | – | 0 | F+ | 47 | 97 | 47 | 1 | – | – | – | 10 | 10 | <150 | 1 | * |
| Portland Bill | 25·4 | +4 | E | 3 | bc | 54 | 85 | 50 | 8 | 5 | – | – | 4-6 | 4-6 | 4000 | 1 | 4 |
| Plymouth | 25·5 | -6 | E | 1 | fg | 44 | 97 | 44 | 5 | – | 4 | 2 | 0 | 2-3 | – | 1 | 1 |
| The Lizard | 24·1 | -10 | ENE | 2 | b-bc | 52 | 97 | 52 | 8 | 4 | – | – | 2-3 | 2-3 | 2500 | 1 | 3 |
| Scilly (St. Mary's) | 24·6 | -4 | NE | 2 | bc | 53 | 97 | 52 | 7 | 5 | – | – | 4-6 | 4-6 | 1000 | 1 | 2 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 25·2 | -6 | NE | 2 | c | 52 | 97 | 52 | 8 | 8 | – | – | 9 | 9 | 3000 | 1 | 2 |
| Holyhead (Valley) | 25·6 | -6 | – | 0 | id0 | 51 | 85 | 48 | 8 | 5 | – | – | 10 | 10 | 3000 | 1 | 2 |
| Chester (Sealand) | 25·8 | -4 | SE'S | 1 | id0 | 51 | 97 | 50 | 4 | 5 | 7 | – | 7-8 | 9+ | 5000 | 0 | * |
| Manchester | 26·1 | -2 | – | 0 | fg | 50 | 97 | 49 | 4 | 5 | 3 | – | 9 | 9+ | 4000 | 1 | * |
| Spurn Head | 26·7 | +4 | NW'W | 2 | z0 | 51 | 92 | 49 | 6 | 5 | 5 | – | 1 | 7-8 | 2500 | 0 | 2 |
| Catterick | 26·8 | +4 | – | 0 | c | 44 | 97 | 44 | 8 | 5 | 3 | – | 7-8 | 9+ | 6000 | 1 | * |
| Tynemouth | 26·3 | 0 | W | 3 | bc | 48 | 85 | 45 | 6 | 5 | 3 | – | 2-3 | 4-6 | 2500 | 1 | 2 |
| St. Abbs Head | 25·1 | +8 | SSW | 2 | c | 46 | 92 | 44 | 7 | 5 | 4 | – | 7-8 | 9 | 3000 | 0 | 3 |
| Leuchars | 24·4 | 0 | – | 0 | c | 45 | 97 | 39 | 7 | 5 | 7 | – | Tr | 9+ | 5000 | 1 | * |
| Renfrew (Abbots I.) | 25·7 | +6 | – | 0 | m | 44 | 97 | 44 | 4 | 5 | 2 | – | 2-3 | 10 | 4500 | 1 | * |
| Eskdalemuir | 26·0 | 0 | – | 0 | c | 40 | 97 | 39 | 8 | 5 | 7 | – | 2-3 | 9 | 2300 | 1 | * |
| Point of Ayre | 25·3 | -6 | – | 0 | c | 49 | 92 | 47 | 8 | 5 | 7 | – | 4-6 | 9+ | 7000 | 0 | 1 |
| Tiree | 22·1 | -12 | SW'S | 2 | c | 51 | 97 | 50 | 9 | 8 | – | – | 9+ | 9+ | 2000 | 0 | 3 |
| Stornoway | 20·8 | -8 | SW | 3 | pr | 47 | 97 | 47 | 8 | 8 | 7 | – | 7-8 | 10 | 1500 | 1 | 2 |
| Dalwhinnie | 23·8 | 0 | SW | 2 | c | 43 | 85 | 39 | 8 | 5 | 1 | – | 4-6 | 9+ | 2500 | 1 | * |
| Aberdeen † | 24·0 | +2 | – | 0 | c | 45 | 85 | 41 | 7 | – | 9 | – | 0 | 9+ | – | 1 | 1 |
| Wick | 22·1 | 0 | WSW | 1 | c-bc | 41 | 85 | 37 | 9 | 8 | 3 | 5 | 1 | 7-8 | 3000 | 1 | * |
| Sumburgh | 19·1 | +2 | W'S | 5 | pr | 50 | 75 | 43 | 8 | 3 | 6 | 3 | 7-8 | 7-8 | 2000 | 1 | 5 |
| Blacksod Point | 23·2 | -8 | S | 2 | rr | 51 | 97 | 50 | 7 | – | 2 | – | 10 | 10 | 1500 | 1 | 2 |
| Malin Head | 23·1 | -6 | S'E | 3 | d/r | 50 | 85 | 46 | 8 | 5 | 1 | – | 7-8 | 10 | 1500 | 1 | 3 |
| Aldergrove | 25·1 | -12 | SE | 1 | id0 | 46 | 92 | 45 | 8 | 5 | 7 | – | 7-8 | 10 | 3500 | 1 | * |
| Birr Castle | 24·6 | -2 | SSE | 1 | c | 42 | 97 | 41 | 8 | 5 | 3 | – | 4-6 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 24·7 | -6 | NE'E | 2 | c | 45 | 92 | 43 | 8 | 5 | 7 | – | Tr | 9+ | 1500 | 1 | 2 |
| Roches Point | 24·8 | -6 | NE | 2 | bc | 45 | 97 | 44 | 8 | 5 | – | 5 | 1 | 4-6 | 2500 | 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 2nd Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 65 | 43 | 32 | – | Tr | 9·1 |
| Croydon | 71 | 45 | 37 | – | – | 9·7 |
| S. Farnborough | 70 | 37 | 30 | Tr | Tr | 9·0 |
| Boscombe Down | 67 | 38 | 37 | – | Tr | 8·9 |
| Thorney Island | 67 | 43 | 38 | – | – | * |
| Lympne | 65 | 46 | 39 | – | 0·2 | 9·5 |
| Manston | 66 | 51 | 45 | – | Tr | 8·8 |
| Shoeburyness | 66 | 49 | 42 | – | – | 8·3 |
| Felixstowe | 66 | 51 | 46 | – | – | 9·7 |
| Gorleston | 62 | 47 | 42 | – | – | 7·8 |
| Mildenhall | 69 | 40 | 36 | – | Tr | 8·1 |
| Cranwell | 65 | 52 | 49 | Tr | Tr | 4·1 |
| Birmingham | 64 | 53 | 44 | – | – | 8·5 |
| Upper Heyford | 67 | 42 | 40 | – | – | * |
| Ross-on-Wye | 66 | 43 | 39 | – | – | 8·1 |
| Hartland Point | 61 | 51 | 49 | – | Tr | 9·2 |
| Bristol | 66 | 43 | 35 | – | 0·1 | 6·9 |
| Portland Bill | 61 | 51 | * | – | – | * |
| Plymouth | 65 | 43 | 36 | – | – | 9·4 |
| The Lizard | 62 | 49 | * | – | – | 9·9 |
| Scilly (St. Mary's) | 65 | 51 | * | – | Tr | 9·6 |
| Guernsey | | | | | | |
| Pembroke | 59 | 50 | * | – | – | 0·0 |
| Holyhead (Valley) | 58 | 50 | 49 | Tr | Tr | * |
| Chester (Sealand) | 60 | 51 | 48 | – | – | 0·0 |
| Manchester | 58 | 49 | 46 | Tr | – | * |
| Spurn Head | 62 | 50 | * | – | – | 2·5 |
| Catterick | 60 | 43 | 37 | – | – | 1·4 |
| Tynemouth | 58 | 47 | 45 | – | – | * |
| St. Abbs Head | 57 | 46 | * | – | – | |
| Leuchars | 57 | 45 | 40 | – | – | 2·1 |
| Renfrew (Abbots I.) | 57 | 42 | 40 | Tr | Tr | 0·5 |
| Eskdalemuir | 53 | 39 | 30 | – | – | 0·4 |
| Point of Ayre | 58 | 47 | * | – | – | 4·2 |
| Tiree | 56 | (45) | * | Tr | Tr | 0·0 |
| Stornoway | 47 | 44 | * | 3 | 0·4 | 1·7 |
| Dalwhinnie | 54 | 40 | 36 | 0·1 | 1 | 2·2 |
| Aberdeen † | 56 | 45 | 39 | – | – | 1·0 |
| Wick | 54 | 39 | 30 | 0·2 | 0·2 | * |
| Sumburgh | 52 | 46 | 39 | 3 | 3 | 3·1 |
| Blacksod Point | 56 | 45 | * | – | 5 | * |
| Malin Head | 55 | 45 | | 0·3 | 0·3 | 0·1 |
| Aldergrove | 58 | 40 | 35 | – | – | 2·3 |
| Birr Castle | 59 | 40 | 36 | – | – | 2·9 |
| Valentia Obsy. | 57 | 42 | 37 | Tr | 0·1 | 3·0 |
| Roches Point | 57 | 45 | * | 0·5 | Tr | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 2nd October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 3rd October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 52 | 61755 | 53468 | 87 | 25845 | 23586 | 20 | 02854 | 23584 | 30 | 02853 | 20384 |
| 115 | | | | | | | 87 | 02844 | 57526 | 84 | 02544 | 24425 |
| 203 | 5- | 81848 | 24528 | | | | | | | 6- | 25838 | 16428 |
| 206 | 53 | 25866 | 22387 | 52 | 22855 | 22367 | 5- | 02864 | 28325 | 57 | 02861 | 24125 |
| 210 | 57 | 02954 | 20325 | 57 | 61854 | 20358 | 07 | 02890 | 20228 | 03 | 02990 | 19226 |
| 220 | 82 | 81415 | 27428 | 83 | 25854 | 25385 | | | | 82 | 03845 | 19228 |
| 230 | 87 | 81856 | 20387 | 82 | 81856 | 20488 | 53 | 01853 | 00015 | 57 | 02963 | 10116 |
| 245 | 57 | 02751 | 23327 | 57 | 02952 | 22227 | 57 | 02861 | 24127 | 57 | 02961 | 24127 |
| 260 | 27 | 02864 | 24315 | 52 | 02755 | 23318 | 5- | 02766 | 22116 | 57 | 02774 | 24127 |
| 278 | 73 | 02864 | 22227 | 57 | 02665 | 20326 | 54 | 01861 | 26111 | | | |
| 279 | 17 | 02862 | 20226 | 17 | 02851 | 20327 | 03 | 01790 | 00012 | 57 | 02863 | 01727 |
| 285 | | | | 57 | 02755 | 28327 | | | | 5- | 02857 | 14227 |
| 288 | 12 | 02765 | 18127 | 09 | 05690 | 22226 | 03 | 05690 | 19224 | 57 | 02865 | 18227 |
| 575 | 17 | 02854 | 24227 | 87 | 10855 | 24327 | 03 | 01790 | 08113 | 02 | 63438 | 00058 |
| 301 | 52 | 05666 | 28128 | 5- | 51658 | 26128 | 03 | 05690 | 28116 | 53 | 22565 | 00066 |
| 321 | 5- | 05667 | 22227 | 57 | 17666 | 00027 | 03 | 45390 | 00044 | 03 | 43390 | 00047 |
| 299 | 5- | 04557 | 22227 | 5- | 05548 | 00028 | | | | 17 | 01764 | 26115 |
| 292 | 52 | 05664 | 00028 | 57 | 05654 | 00025 | 53 | 05561 | 00027 | 07 | 05590 | 00017 |
| 310 | -- | 02628 | 20326 | -- | 51428 | 20228 | | | | -- | 02626 | 08216 |
| 614 | 07 | 05590 | 18126 | 53 | 05563 | 28127 | 51 | 47365 | 27128 | 5- | 51468 | 00058 |
| 333 | 57 | 02866 | 28128 | 57 | 02855 | 28127 | 54 | 21865 | 00056 | 5- | 51725 | 00058 |
| 334 | -- | 02646 | 24217 | -- | 02645 | 28116 | | | | -- | 53437 | 24188 |
| 340 | 8- | 02757 | 00027 | 62 | 51644 | 31128 | 5- | 05568 | 00028 | 5- | 05648 | 00028 |
| 136 | 53 | 02764 | 22116 | 03 | 05690 | 09113 | 03 | 05590 | 32117 | 5- | 05657 | 32247 |
| 336 | 57 | 02754 | 32327 | 57 | 02756 | 32328 | | | | -- | 46249 | 32249 |
| 350 | 00 | 05690 | 15114 | 05 | 05690 | 25125 | 00 | 47390 | 00000 | -- | 47009 | 00049 |
| 368 | 04 | 05690 | 16113 | 00 | 01690 | 22114 | 00 | 08490 | 00010 | -- | 46209 | 08140 |
| 379 | 00 | 01890 | 12115 | 00 | 01790 | 24114 | 00 | 00790 | 18200 | -- | 46109 | 00049 |
| 390 | 00 | 02790 | 00015 | 00 | 08490 | 00015 | 00 | 47390 | 14140 | 99 | 45309 | 00042 |
| 382 | 00 | 01790 | 09114 | 04 | 01790 | 00014 | 00 | 08490 | 00002 | -- | 46009 | 00040 |
| 438 | 04 | 05690 | 00013 | 44 | 05762 | 00014 | 00 | 01690 | 32214 | 00 | 00590 | 32101 |
| 430 | 40 | 01861 | 08112 | 07 | 02790 | 00015 | | | | 00 | 05690 | 32102 |
| 409 | 10 | 01853 | 18114 | 16 | 01851 | 32124 | 04 | 01890 | 04211 | 00 | 01990 | 12113 |

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.

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 3rd October
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 * | ffwbc | cbem. | bffFew |
| Croydon | bfgbezm | bezcybez. | befgbmbf |
| Greenwich | by | bwuf | |
| Camden Square | c | c | * |
| *Kensington | bem | be | * |
| Hampstead | be | be | be |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·7 Time 9h 2nd
Min. 0·1 Time 11-19h 2nd

| 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 | 43 | 32 | – | Tr | 9·1 | * | * |
| Croydon | 71 | 45 | 37 | – | – | 9·7 | * | * |
| Greenwich | 69 | 43 | 31 | – | Tr | 9·0 | 50 | 91 |
| Westminster | 67 | 45 | 41 | – | – | | 65 | 98 |
| Regents Park | 68 | 43 | 38 | – | – | | 51 | 93 |
| Camden Square | 68 | 44 | 38 | – | – | * | * | 94 |
| Kensington | 68 | 44 | 31 | – | Tr | | 77 | 93 |
| Hampstead | 67 | 49 | 42 | – | – | | * | 84 |

Page 1 BRITISH SECTION

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

SECRET

Sunday 4th October 1942

No. 29536

## OBSERVATIONS at 13h. G.M.T. 3rd October

| 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) | 24·5 | -12 | W'S | 1 | obc/f | 62 | 65 | 50 | 5 | - | - | 6 | 0 | 7-8 | - |
| | Croydon | 25·0 | -14 | - | 0 | zo | 68 | 65 | 55 | 5 | 1 | - | 2 | 4-6 | 7-8 | 4000 |
| | S. Farnborough | 24·6 | -12 | SSE | 2 | zo | 68 | 55 | 52 | 6 | 1 | - | 8 | 1 | 7-8 | 2500 |
| | Boscombe Down | 24·5 | -16 | SSW | 1 | c | 67 | 65 | 55 | 7 | - | - | 2 | 0 | 9 | - |
| | Thorney Island | 25·0 | -6 | SE | 2 | c-bc | 67 | 68 | 55 | 7 | 1 | - | 6 | 1 | 7-8 | 4000 |
| | Lympne | 25·4 | -10 | SE | 2 | zo | 63 | 65 | 52 | 6 | 1 | - | 2 | Tr | 4-6 | 3000 |
| | Manston | 25·4 | -6 | SE | 1 | zo | 62 | 75 | 55 | 6 | 5 | - | 8 | 4-6 | 7-8 | 1200 |
| 2 | Shoeburyness | 25·7 | -6 | - | 0 | f | 55 | 97 | 54 | 3 | - | - | - | 10 | 10 | <150 |
| | Felixstowe | 25·7 | -6 | S'E | 1 | zo | 60 | 85 | 55 | 6 | 5 | - | - | 10 | 10 | 1200 |
| | Gorleston | 25·9 | -8 | SE'S | 2 | c/f | 56 | 92 | 53 | 4 | 5 | - | - | 9 | 9 | 200 |
| | Mildenhall | 25·1 | -14 | E'S | 2 | zo | 63 | 75 | 54 | 6 | 1 | - | 2 | Tr | 4-6 | 4000 |
| | Cranwell | 25·2 | -12 | ESE | 1 | zo | 58 | 75 | 51 | 6 | 5 | - | - | 9 | 9+ | 6000 |
| 3 | Birmingham | 24·5 | -14 | S | 2 | zo | 62 | 65 | 51 | 6 | 8 | 7 | - | 7-8 | 9+ | 4000 |
| | Upper Heyford | 24·7 | -18 | SE | 1 | zo | 63 | 55 | 49 | 6 | - | - | 6 | 0 | 7-8 | - |
| 4 | Ross-on-Wye | 23·7 | -20 | WNW | 1 | c-bc/f | 52 | 85 | 54 | 4 | - | - | 2 | 0 | 7-8 | - |
| 5 | Hartland Point | 23·6 | -14 | - | 0 | b-bc | 61 | 85 | 56 | 7 | 1 | - | 4 | Tr | 2-3 | 2500 |
| | Bristol | 24·6 | -18 | SE | 1 | zo | 63 | 75 | 50 | 6 | 1 | - | 6 | Tr | 7-8 | 4000 |
| | Portland Bill | 24·4 | -12 | E | 2 | c | 62 | 85 | 59 | 8 | 5 | - | - | 9 | 9 | 4000 |
| | Plymouth | 24·6 | -6 | ESE | 2 | zo | 64 | 85 | 61 | 7 | 1 | - | 2 | 2-3 | 7-8 | 2500 |
| | The Lizard | 23·4 | -4 | E | 3 | c | 59 | 92 | 57 | 7 | 5 | 2 | - | 9 | 10 | 800 |
| | Scilly (St. Mary's) | 23·8 | -8 | ESE | 2 | c | 61 | 85 | 52 | 6 | 5 | - | 2 | 7-8 | 9 | 800 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 24·2 | -16 | SE | 2 | c-bc | 59 | 85 | 54 | 7 | 8 | 7 | 2 | 4-6 | 7-8 | 3000 |
| 7 | Holyhead (Valley) | 23·3 | -14 | SW'W | 3 | c | 57 | 85 | 53 | 8 | 8 | 6 | 8 | 7-8 | 9+ | 2000 |
| | Chester (Sealand) | 23·1 | -22 | S'E | 2 | c | 60 | 75 | 53 | 6 | 5 | 7 | - | 4-6 | 9+ | 5700 |
| 8 | Manchester | 24·3 | -14 | SE | 2 | c/d | 57 | 85 | 53 | 6 | 5 | 2 | - | 4-6 | 10 | 1600 |
| 10 | Spurn Head | 25·7 | -10 | ESE | 2 | zo | 57 | 75 | 49 | 6 | 7 | 3 | - | 2-3 | 7-8 | 2500 |
| | Catterick | 24·4 | -18 | S | 2 | c | 56 | 65 | 46 | 7 | - | 3 | - | 0 | 9+ | - |
| | Tynemouth | 25·1 | -12 | S | 3 | m | 53 | 85 | 49 | 4 | 5 | - | - | 9 | 9 | 2800 |
| 11 | St. Abbs Head | 22·7 | -20 | SW | 3 | rr | 50 | 92 | 48 | 7 | 5 | 2 | - | 7-8 | 10 | 3000 |
| | Leuchars | 22·7 | -16 | - | 0 | roro | 52 | 85 | 49 | 6 | 5 | 2 | - | 4-6 | 10 | 3000 |
| 12 | Renfrew (Abbots I.) | 22·3 | -20 | SSE | 1 | iro | 52 | 85 | 48 | 5 | 5 | 2 | - | 4-6 | 10 | 3000 |
| | Eskdalemuir | 22·7 | -26 | S'E | 2 | roro | 49 | 85 | 45 | 8 | 5 | 2 | - | 7-8 | 10 | 1100 |
| | Point of Ayre | 22·4 | -22 | S | 4 | iro | 56 | 85 | 51 | 7 | 6 | 2 | - | 4-6 | 10 | 800 |
| 13A | Tiree | 18·5 | -24 | SSW | 5 | roro | 51 | 97 | 50 | 7 | 8 | 1 | - | 7-8 | 10 | 1500 |
| 13B | Stornoway | 17·3 | -22 | SSW | 5 | rr | 52 | 92 | 50 | 7 | 5 | 2 | - | 7-8 | 10 | 1200 |
| 15 | Dalwhinnie | 21·9 | -16 | SW | 3 | rr | 45 | 92 | 43 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Aberdeen | 22·1 | -10 | S | 3 | c | 52 | 75 | 43 | 8 | - | 7 | - | 0 | 10 | - |
| | Wick | 20·4 | -18 | SSW | 2 | c | 51 | 85 | 47 | 9 | 5 | 7 | - | 4-6 | 10 | 4000 |
| 16 | Sumburgh | 19·6 | -2 | WSW | 5 | c-bc | 52 | 75 | 43 | 8 | 8 | 6 | 1 | 4-6 | 7-8 | 2000 |
| 17 | Blacksod Point | 18·4 | -26 | S | 5 | DR | 55 | 97 | 54 | 6 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head | 18·8 | -30 | S'E | 3 | c/r | 51 | 85 | 47 | 8 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Aldergrove | 21·5 | -26 | S | 2 | c/ro | 53 | 86 | 48 | 7 | 5 | 7 | - | 9 | 10 | 1500 |
| 19 | Birr Castle | 21·9 | -18 | SSE | 2 | c | 58 | 75 | 51 | 8 | 5 | 1 | - | 7-8 | 9r | 2500 |
| 20 | Valentia Obsy. | 22·5 | -10 | S | 4 | c-bc | 56 | 75 | 48 | 8 | 5 | 4 | 3 | 1 | 7-8 | 2500 |
| | Roches Point | 23·2 | -10 | SSE | 1 | c | 57 | 92 | 52 | 8 | 5 | - | - | 9+ | 9+ | 2500 |

## OBSERVATIONS at 18h. G.M.T. 3rd October — 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. 3rd (39) | Weather 13h.—18h. 3rd (40) | Weather 18h. 3rd to 1h. 4th (41) | Weather 1h.–7h. 4th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 22·8 | -6 | S. | 1 | zo | 58 | 85 | 52 | 6 | - | 6 | 6 | 0 | 7-8 | - | 1 | * | bcf zow | CCzow | bffFw | oFew |
| Croydon | 23·6 | -2 | SSW | 1 | zo | 60 | 85 | 55 | 6 | 5 | - | 4 | 1 | 7-8 | 3000 | 1 | * | bcf bcmbm | CZobcZomo | bcmobfe | bfeoFe |
| S. Farnborough | 22·7 | -6 | ESE | 2 | zo | 60 | 85 | 55 | 6 | - | 7 | 2 | 0 | 7-8 | - | 0 | * | bmowF | bczocmo | cbmow | bmowoFe |
| Boscombe Down | 22·8 | -10 | SE'S | 3 | zo | 57 | 92 | 55 | 6 | - | - | 8 | 0 | 7-8 | - | 0 | * | cmoc | cbcmo | bcmooFew | oFe |
| Thorney Island | 22·9 | -10 | E'S | 1 | zo | 59 | 75 | 51 | 6 | - | - | 2 | 0 | 7-8 | - | 0 | * | bfgubo | bcmo | bfgff | bFw |
| Lympne | 23·1 | -14 | - | 0 | zo | 54 | 92 | 52 | 6 | - | - | 1 | 0 | 2-3 | - | 1 | §1 | Feczo | bczobc⊕ | bebmow | bmFe ofe |
| Manston | 23·9 | -6 | - | 0 | zo | 56 | 92 | 53 | 5 | - | - | 8 | 0 | 2-3 | - | 1 | * | oFfmbcm | CZomo | befmo | bmofe |
| Shoeburyness | 23·7 | -6 | SE | 3 | bc | 59 | 92 | 56 | 6 | - | 7 | 2 | 0 | 4-6 | - | 0 | * | ofsof | ofbcmo | bcmobmo | bmoFf |
| Felixstowe | 24·1 | -8 | SE'E | 1 | zo | 55 | 92 | 53 | 6 | - | - | - | 0 | 0 | - | 0 | 1 | cmcmo | cmocmow | cbmow | bmowbm |
| Gorleston | 23·8 | -4 | S | 3 | zo | 57 | 85 | 53 | 6 | - | 4 | - | 0 | 4-6 | - | 0 | 3 | offcm | cbczo | blwzo | bifmo |
| Mildenhall | 23·0 | -10 | ESE | 2 | m | 55 | 97 | 53 | 4 | - | - | 1 | 0 | 2-3 | - | 0 | * | oFbcmozo | bczobcm | bembfbF | oFbfwoFw |
| Cranwell | 22·2 | -10 | SE'E | 2 | c | 55 | 92 | 52 | 6 | - | - | 2 | 0 | 9 | - | 0 | * | cmocmo | ccmo | oFbf | bFoFbFo |
| Birmingham | 21·7 | -12 | SSW | 2 | zo | 59 | 75 | 51 | 6 | - | 4 | 2 | 0 | 7-8 | - | 1 | * | cbccz | cbcz | bc | bcf |
| Upper Heyford | 23·4 | -2 | - | 0 | zo | 60 | 75 | 52 | 6 | - | - | 8 | 0 | 4-6 | - | 0 | * | Fcmcmo | bczoy | bczobmo | bmocfe |
| Ross-on-Wye | 21·7 | -12 | S | 1 | bc | 59 | 85 | 54 | 7 | - | - | 2 | 0 | 4-6 | - | 1 | * | oFFcF | bczo | bmow | bwrrwcmo |
| Hartland Point | 21·0 | -12 | NE | 2 | bc | 59 | 85 | 53 | 7 | - | - | 2 | 0 | 2-3 | - | 0 | 3 | bc | bbc | bcb | bc |
| Bristol | 22·6 | -24 | S'E | 1 | bc | 59 | 75 | 50 | 6 | - | - | 2 | 0 | 4-6 | - | 1 | * | Fcf | cmocbc | bcmowo | ofcfm |
| Portland Bill | 21·4 | -12 | E | 2 | c-bc | 60 | 85 | 56 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 2 | 3 | c | c | bbc | bcoff |
| Plymouth | 21·9 | -10 | ESE | 2 | zo | 59 | 85 | 56 | 6 | - | - | 4 | 0 | 2-3 | - | 0 | 2 | cbmo | bcmo | bmFF | oFcfbcm |
| The Lizard | 20·6 | -4 | ESE | 3 | oF+ | 58 | 97 | 58 | 1 | 5 | - | - | 10 | 10 | 400 | 0 | 3 | bccoc | ocFe | oFfe | mFfe |
| Scilly (St. Mary's) | 21·3 | -8 | E'S | 2 | zo | 57 | 92 | 55 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 2 | bcc | c | coffe | odfe |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 21·5 | -8 | SE | 2 | bc | 57 | 97 | 56 | 7 | 5 | 4 | 1 | 2-3 | 4-6 | 3000 | 1 | 1 | c | cbcmo | cbc | coido |
| Holyhead (Valley) | 20·8 | -16 | SW | 4 | c | 56 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 4 | domoc | c | cbc | bcebbc |
| Chester (Sealand) | 20·6 | -14 | - | 0 | m? | 57 | 75 | 49 | 4 | - | - | 3 | 0 | 4-6 | - | 0 | * | cmidomo | CZo | bczobf | bm |
| Manchester | 20·6 | -14 | SE | 2 | m | 58 | 85 | 54 | 4 | - | 3 | 2 | 0 | 7-8 | - | 0 | * | cmwido | cmom | bmmo | bmw |
| Spurn Head | 22·9 | -10 | SE'S | 3 | c-bc | 56 | 85 | 52 | 7 | 7 | 3 | 2 | 7-8 | 7-8 | 2500 | 0 | 3 | cmo | c | omo | bmo |
| Catterick | 21·4 | -20 | S | 2 | m | 53 | 85 | 49 | 4 | 5 | 2 | - | 9 | 10 | 700 | 0 | * | cmoc | ocmo | cmfbf | bfbcmo |
| Tynemouth | 21·5 | -18 | S | 3 | c | 54 | 85 | 51 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 2 | bccm | c | bcc | cbc |
| St. Abbs Head | 18·7 | -18 | SSE | 4 | iro | 49 | 92 | 47 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | cr | crp | orc | cq |
| Leuchars | 18·4 | -34 | SSE | 2 | ido | 50 | 97 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 2800 | 1 | * | civomocrvom | Crorocdodo | domdemoirc | ccevro |
| Renfrew (Abbots I.) | 16·9 | -28 | - | 0 | dodo | 51 | 97 | 51 | 4 | 5 | 2 | - | 9 | 10 | 1200 | 1 | * | cfcmoiro | crdodo | cmrorormo | cmcmoiro |
| Eskdalemuir | 18·8 | -18 | S'W | 2 | roro | 50 | 97 | 49 | 2 | - | 2 | - | 10 | 10 | 100 | 1 | * | crolo | Crorf | ofrm | ciro |
| Point of Ayre | 19·0 | -22 | SW | 2 | c | 55 | 85 | 50 | 8 | 6 | 7 | - | 2-3 | 10 | 800 | 0 | 2 | c | mirc | cbc | bbccb |
| Tiree | 11·4 | -44 | SSW | 6 | rr | 52 | 97 | 52 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 5 | croro | orr | orrm. | oRRc |
| Stornoway | 10·3 | -26 | SSW | 7 | rr | 51 | 97 | 51 | 7 | 5 | 2 | - | 9 | 10 | 1000 | 1 | 4 | cprrr | crr | crr | crrir |
| Dalwhinnie | 15·8 | -30 | SSW | 3 | c | 47 | 85 | 44 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | * | crro | oir | * | orr |
| Aberdeen | 14·7 | -26 | S | 3 | iro | 50 | 92 | 48 | 6 | 6 | 7 | - | 7-8 | 10 | 1000 | 1 | 2 | czoc | cirrozo | cirozoc | czoc |
| Wick | 16·2 | -20 | S | 3 | roro | 49 | 92 | 47 | 8 | 6 | 2 | - | 4-6 | 10 | 1000 | 1 | * | bcc | croro | ciro | c |
| Sumburgh | 15·9 | -32 | S'W | 4 | iro | 51 | 85 | 46 | 8 | 5 | 7 | - | 4-6 | 10 | 3000 | 1 | 4 | cprobc | scilo | crororrmo | crorodorom |
| Blacksod Point | 14·8 | -16 | S | 5 | ido | 56 | 97 | 55 | 6 | - | 2 | - | 10 | 10 | 800 | 2 | 4 | r | d | r | r |
| Malin Head | 13·2 | -32 | S | 5 | c | 53 | 85 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | 3 | r | r | r | r |
| Aldergrove | 17·3 | -28 | SSE | 1 | ido | 54 | 85 | 50 | 8 | 5 | 2 | - | 9+ | 10 | 1500 | 1 | * | crroiro | ccido | c | ecir |
| Birr Castle | 18·1 | -18 | SSW | 2 | c | 57 | 85 | 53 | 8 | 5 | 7 | - | 7-8 | 9 | 2500 | 1 | * | c | c | * | bc |
| Valentia Obsy. | 19·2 | -16 | S'W | 4 | c | 54 | 92 | 52 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | bc | bc | d | c |
| Roches Point | 20·2 | -16 | SSW | 2 | c | 55 | 92 | 53 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 3 | c | c | d | c |

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

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands | Light to moderate South to Southwest winds. Fine; fog locally on coasts today and developing fairly generally overland to-night. Visibility moderate to-day, mainly bad to-night. Day temperatures above average. |
| 5 S.W. England; 6 South Wales | Light to moderate South to Southwest wind. Cloudy with local slight drizzle on coasts, fair or fine well inland during day. Visibility very poor on coasts, moderate inland today. Temperatures above average. |
| 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man | Fresh Southwest wind veering Northwest in North today, backing again later. Fair in South at first but a narrow, weakening rain belt moving from the North southwards will affect all areas except possibly 7 & 9. Becoming fair in rear, but renewed rain again to-night. Visibility good, moderate in rain. Temperature rather above average. |
| 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Moderate to fresh Northwest wind backing Southeast to-night, veering again later. Mainly fair with scattered showers in North to-day, rain spreading from Southwest during night. Further improvement in West to-morrow. Visibility very good, moderate in rain. Temperature rather above average. |
| 16 Orkneys and Shetlands | As 13A - 15. |
| 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland | Fresh Southwest wind Northwest temporarily in North. Cloudy, some rain except possibly in 19. Visibility good, moderate in rain. Temperature about average. |

### GENERAL INFERENCE

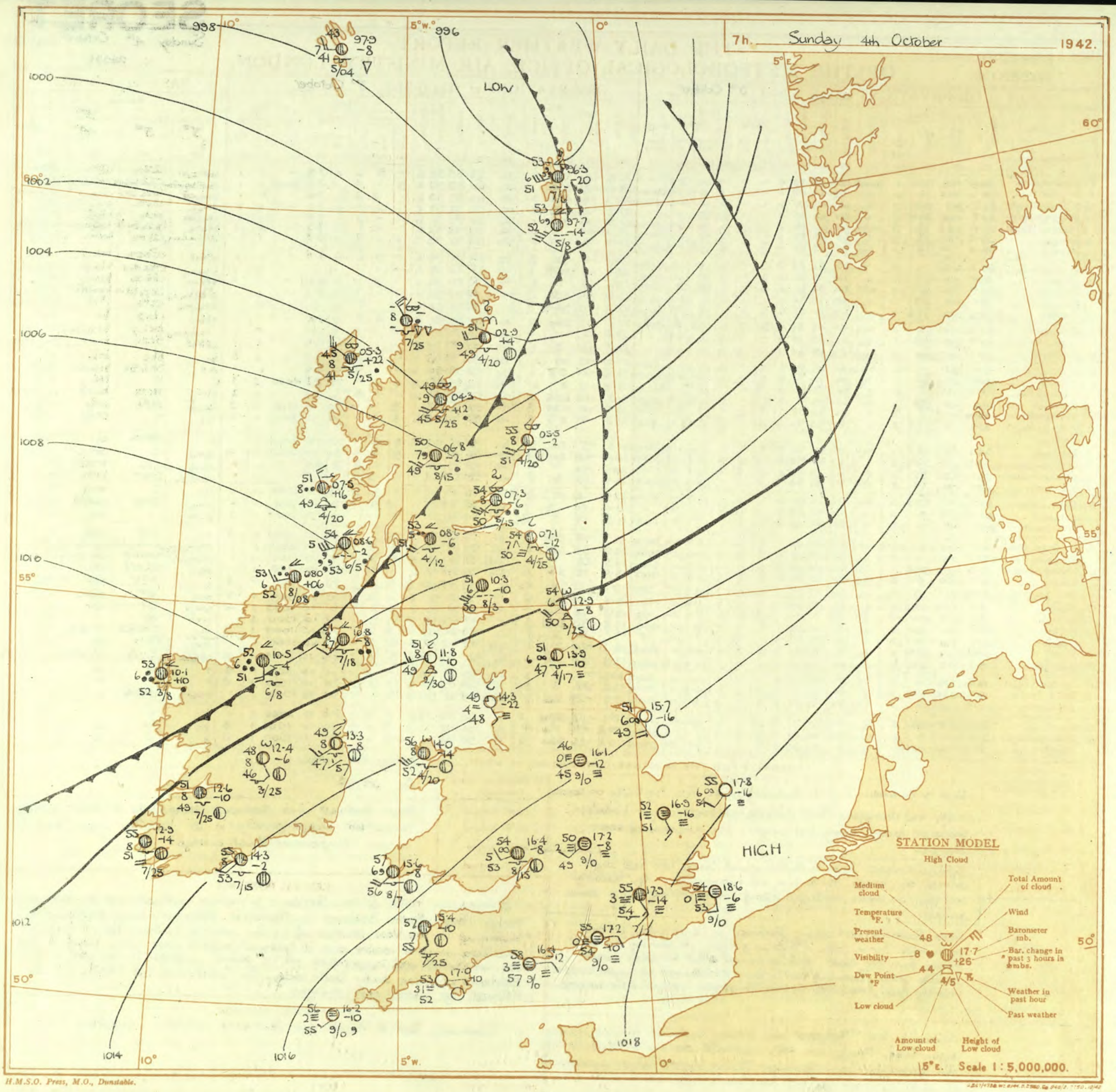
A depression north of the Shetlands is moving northeast and an associated trough from North Scotland to Northwest Ireland is moving southeast, but slowing up in the West. Weather will be fine over the southern half of England and Wales except in coastal areas of Southwest England where much cloud or sea fog will persist and temperature will be above average. A rain belt over South Scotland will move slowly South to-day. Fair weather in the North will be followed by further rain to-night.

### FURTHER OUTLOOK

Continuing fair in South and Southeast; unsettled elsewhere.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

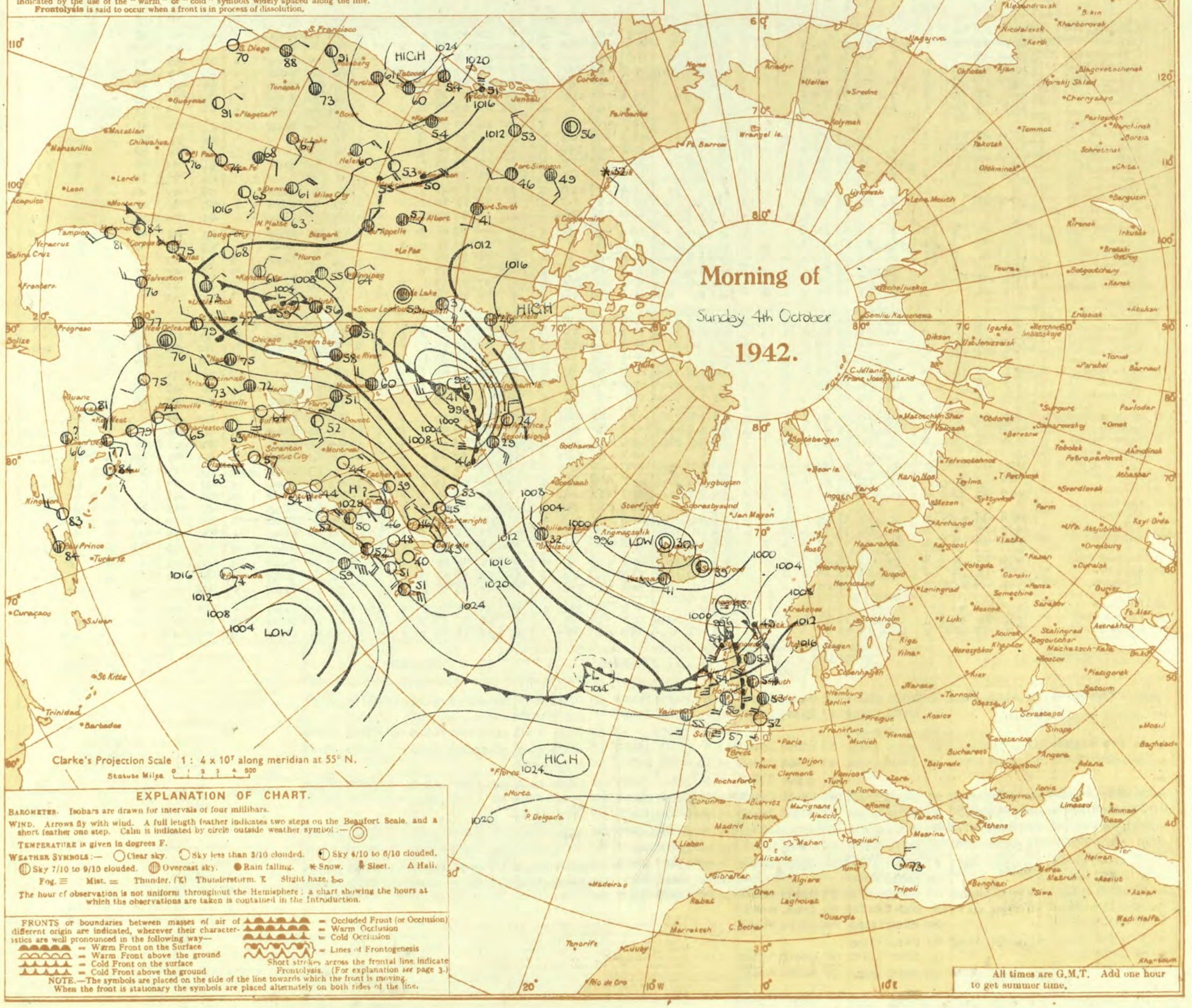
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Sunday 4th October 1942

No. 29536

## OBSERVATIONS at 1 hr. G.M.T. 4th October

| 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 | * | * | * | * | * | 48 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 20.6 | -22 | SSW | 1 | bf+ | 52 | 97 | 52 | 3 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 226 | 12.0 | -18 | - | 0 | fg | 44 | 92 | 42 | 5 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 417 | 20.8 | -12 | - | 0 | F | 51 | 97 | 51 | 1 | - | - | - | 10 | 10 | <150 |
| | Thorney Island | 10 | 20.8 | -10 | E'N | 2 | bf+ | 52 | 97 | 51 | 3 | - | - | - | 0 | 0 | - |
| | Lympne | 283 | 21.1 | -18 | SE | 2 | zo | 54 | 97 | 54 | 5 | - | - | - | 0 | 0 | - |
| | Manston | 154 | 21.9 | -6 | SSE | 2 | zo | 55 | 97 | 54 | 5 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 21.1 | -18 | SSE | 2 | zo | 58 | 97 | 57 | 5 | - | - | - | 0 | 0 | - |
| | Gorleston | 5 | 21.6 | -12 | SW'W | 2 | zo | 55 | 97 | 53 | 6 | - | - | - | 0 | 0 | - |
| | Mildenhall | 15 | 20.3 | -14 | SE | 2 | bF+ | 49 | 97 | 49 | 0 | - | - | - | 0 | 0 | - |
| | Cranwell | 203 | 19.2 | -16 | S | 2 | f- | 47 | 97 | 47 | 2 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 09.6 | -20 | S | 1 | zo | 51 | 92 | 49 | 5 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 18.4 | -16 | S | 3 | b | 54 | 97 | 52 | 7 | - | - | - | 0 | 0 | - |
| | Bristol | 209 | 20.3 | -14 | E | 2 | cf+ | 51 | 97 | 51 | 2 | - | - | - | 10 | 10 | <150 |
| | Portland Bill | 32 | 19.2 | -16 | E | 2 | be | 58 | 85 | 54 | 8 | 5 | - | - | 4-6 | 4-6 | 4000 |
| | Plymouth | 82 | 19.8 | -10 | E | 3 | F+ | 55 | 97 | 55 | 1 | - | - | - | 10 | 10 | <150 |
| | The Lizard | 240 | 18.2 | -18 | ENE | 2 | f- | 56 | 97 | 56 | 3 | 5 | - | - | 10 | 10 | 600 |
| | Scilly (St. Mary's) | 163 | 18.8 | -12 | - | 0 | f | 57 | 97 | 57 | 2 | - | - | - | 10 | 10 | <150 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 19.0 | -10 | S | 3 | c-bc | 59 | 85 | 55 | 7 | 8 | 7 | 8 | 4-6 | 7-8 | 4000 |
| 7 | Holyhead (Valley) | 32 | 17.2 | -18 | SW'S | 4 | be | 56 | 85 | 52 | 8 | 5 | - | - | 4-6 | 4-6 | 1000 |
| | Chester (Sealand) | 16 | 17.9 | -14 | S'E | 2 | m/f | 51 | 97 | 50 | 4 | - | - | - | 0 | 0 | - |
| 8 | Manchester | 235 | 18.2 | -14 | SSE | 3 | zo | 50 | 97 | 48 | 5 | - | - | 1 | 0 | 1 | - |
| 10 | Spurn Head | 29 | 19.2 | -18 | SSW | 4 | zo | 53 | 97 | 52 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Catterick | 175 | 16.9 | -18 | S | 2 | bf | 54 | 85 | 50 | 3 | 5 | - | - | 1 | 1 | 2500 |
| | Tynemouth | 108 | 16.3 | -22 | S | 4 | c-bc | 54 | 92 | 52 | 6 | 5 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 11.2 | -20 | SW | 5 | c-bc | 54 | 85 | 50 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Leuchars | 36 | 10.6 | -26 | SW | 4 | c-bc/r | 54 | 85 | 51 | 7 | 5 | 7 | - | 4-6 | 7-8 | 2400 |
| 12 | Renfrew (Abbots I.) | 19 | 11.4 | -16 | SW | 4 | zo | 56 | 85 | 52 | 5 | 5 | 2 | - | 7-8 | 10 | 2800 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 15.1 | +16 | SW'W | 3 | bc | 53 | 92 | 50 | 8 | 8 | - | 6 | Tr | 2-3 | 1800 |
| 13A | Tiree | 22 | 06.6 | -20 | SSW | 7 | rr | 55 | 97 | 55 | 6 | 6 | 2 | - | 9+ | 10 | 800 |
| 13B | Stornoway | 80 | 00.4 | -22 | SSW | 6 | rr | 54 | 92 | 52 | 7 | 5 | 7 | - | 4-6 | 7-8 | 1200 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 08.6 | -38 | SW'S | 5 | zo | 53 | 97 | 53 | 7 | 5 | 7 | - | 7-8 | 10 | 1200 |
| | Wick | 114 | 04.7 | -54 | S | 5 | c | 52 | 92 | 49 | 6 | 5 | - | - | 4-6 | 10 | 1500 |
| 16 | Sumburgh | 19 | 04.6 | -64 | S | 6 | r.r. | 51 | 97 | 49 | 6 | 6 | 2 | - | 7-8 | 10 | 900 |
| 17 | Blacksod Point | 18 | 10.6 | -22 | S | 6 | rr | 55 | 97 | 54 | 7 | 6 | 2 | - | 4-6 | 10 | 800 |
| 18 | Malin Head | 84 | 08.7 | -18 | S | 5 | ir | 54 | 85 | 50 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| | Aldergrove | 268 | 13.4 | -14 | SW'S | 3 | c | 54 | 85 | 50 | 7 | 5 | - | - | 9 | 10 | 1000 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 15.6 | -26 | S'W | 3 | c | 55 | 85 | 51 | 8 | 5 | - | - | 9 | 9 | 2500 |
| | Roches Point | 22 | 16.8 | -18 | SSW | 2 | b-bc | 53 | 92 | 51 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 4th October

| 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) | 17.5 | -12 | - | 0 | F | 53 | 97 | 53 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Croydon | 17.9 | -14 | S'E | 3 | cf- | 55 | 97 | 55 | 3 | 5 | - | - | 9+ | 9+ | 200 | 1 | * |
| | S. Farnborough | 17.7 | -6 | SW | 1 | F | 51 | 97 | 51 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Boscombe Down | 17.7 | -6 | SW | 1 | F- | 55 | 97 | 55 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Thorney Island | 17.2 | -10 | E | 2 | F | 55 | 97 | 55 | 0 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Lympne | 18.8 | -10 | SSE | 1 | f- | 58 | 97 | 58 | 2 | - | - | - | 10 | 10 | <150 | 1 | § 1 |
| | Manston | 18.6 | -6 | S | 2 | F+ | 54 | 97 | 53 | 0 | - | - | - | 10 | 10 | <150 | 1 | * |
| 2 | Shoeburyness | 18.7 | -10 | SW | 3 | f- | 56 | 97 | 55 | 2 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Felixstowe | 18.3 | -14 | SW'S | 2 | m | 57 | 97 | 56 | 4 | - | - | - | 0 | 0 | - | 1 | 1 |
| | Gorleston | 17.8 | -16 | SSW | 2 | zo | 55 | 97 | 54 | 6 | - | - | - | 0 | 0 | - | 0 | 3 |
| | Mildenhall | 16.9 | -16 | SSE | 3 | F | 52 | 97 | 52 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Cranwell | 16.1 | -14 | S'E | 3 | bF- | 45 | 97 | 45 | 1 | - | - | - | 0 | 0 | - | 1 | * |
| 3 | Birmingham | 16.4 | -4 | SSW | 2 | f+ | 49 | 92 | 47 | 2 | - | - | - | 10 | 10 | <150 | 1 | * |
| | Upper Heyford | 17.2 | -8 | SW | 2 | f- | 50 | 97 | 50 | 2 | - | - | - | 10 | 10 | <150 | 0 | * |
| 4 | Ross-on-Wye | 16.4 | -8 | SW'W | 2 | zo | 54 | 97 | 53 | 5 | 5 | - | - | 10 | 10 | 5300 | 1 | * |
| 5 | Hartland Point | 15.4 | -10 | S | 2 | c | 57 | 92 | 55 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 |
| | Bristol | 17.3 | -12 | S | 2 | zo | 53 | 97 | 52 | 6 | 5 | 3 | - | Tr | 1 | 300 | 1 | * |
| | Portland Bill | 16.4 | -12 | E | 2 | f | 58 | 85 | 54 | 3 | - | - | - | 10 | 10 | <150 | 1 | 3 |
| | Plymouth | 17.0 | -10 | E | 2 | bf+ | 53 | 97 | 53 | 3 | - | - | - | 0 | 0 | - | 0 | 2 |
| | The Lizard | 15.6 | -10 | SSE | 2 | cF | 57 | 97 | 57 | 1 | 5 | - | - | 10 | 10 | 200 | 1 | 3 |
| | Scilly (St. Mary's) | 16.2 | -10 | SW | 1 | f | 56 | 97 | 56 | 2 | - | - | - | 10 | 10 | <150 | 1 | 2 |
| | Guernsey | | | | | | | | | | | | | | | | | |
| 6 | Pembroke | 15.6 | -8 | SW'S | 4 | id. | 57 | 99 | 57 | 6 | 5 | - | - | 10 | 10 | 700 | 1 | 2 |
| 7 | Holyhead (Valley) | 14.0 | -14 | SW | 5 | c | 56 | 85 | 51 | 8 | 5 | 3 | - | 4-6 | 9 | 2000 | 0 | 3 |
| | Chester (Sealand) | 14.4 | -10 | ESE | 3 | zo | 49 | 97 | 47 | 5 | 5 | 4 | 2 | Tr | 4-6 | 3000 | 0 | * |
| 8 | Manchester | 15.4 | -10 | SE | 4 | m | 51 | 92 | 49 | 4 | - | 3 | - | 0 | 1 | - | 1 | * |
| 10 | Spurn Head | 15.7 | -16 | S | 4 | zo | 51 | 92 | 49 | 6 | - | - | - | 0 | 0 | - | 0 | 3 |
| | Catterick | 13.9 | -10 | NE | 1 | zo | 51 | 85 | 47 | 6 | 5 | - | 1 | 4-6 | 4-6 | 1700 | 0 | * |
| | Tynemouth | 12.9 | -8 | SW | 4 | be | 54 | 85 | 48 | 6 | 2 | 3 | - | 2-3 | 4-6 | 2500 | 1 | 2 |
| 11 | St. Abbs Head | 07.1 | -12 | SSW | 6 | c-bcq | 54 | 85 | 50 | 7 | 5 | 4 | - | 4-6 | 7-8 | 2500 | 0 | 5 |
| | Leuchars | 07.3 | -6 | SW | 5 | c/r | 54 | 85 | 52 | 8 | 5 | 7 | 6 | 7-8 | 9+ | 1500 | 1 | * |
| 12 | Renfrew (Abbots I.) | 08.6 | -6 | SW | 4 | r.r. | 53 | 92 | 51 | 5 | 5 | 2 | - | 4-6 | 10 | 1200 | 1 | * |
| | Eskdalemuir | 10.3 | -10 | SW'S | 5 | id. | 51 | 97 | 50 | 6 | 6 | - | - | 10 | 10 | 300 | 1 | * |
| | Point of Ayre | 11.8 | -10 | W'S | 3 | b-bc | 51 | 92 | 49 | 8 | 2 | 4 | 1 | 1 | 2-3 | 3000 | 0 | 3 |
| 13A | Tiree | 07.5 | +16 | NNW | 3 | r.r. | 51 | 92 | 49 | 8 | 8 | - | 8 | 4-6 | 7-8 | 2000 | 1 | 5 |
| 13B | Stornoway | 05.3 | +22 | WNW | 5 | c | 48 | 85 | 43 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | 2 |
| 15 | Dalwhinnie | 06.8 | -2 | SW | 3 | id. | 50 | 97 | 49 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Aberdeen † | 05.5 | -2 | SW'S | 4 | c | 55 | 85 | 50 | 8 | 5 | 7 | - | 4-6 | 9 | 2000 | 1 | 2 |
| | Wick | 02.9 | +4 | W | 4 | c-bc | 51 | 92 | 51 | 9 | 5 | 8 | 6 | 4-6 | 7-8 | 2000 | 1 | * |
| 16 | Sumburgh | 97.7 | -14 | SW | 7 | id. | 53 | 97 | 52 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | 5 |
| 17 | Blacksod Point | 10.1 | +10 | N | 4 | rr | 53 | 97 | 52 | 6 | 6 | 2 | - | 2-3 | 10 | 800 | 1 | 3 |
| 18 | Malin Head | 08.0 | +6 | W'S | 3 | rr | 53 | 97 | 52 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 4 |
| | Aldergrove | 10.8 | -8 | SSW | 2 | c/r | 51 | 85 | 47 | 8 | 5 | 2 | - | 9+ | 10 | 1800 | 1 | * |
| 19 | Birr Castle | 12.4 | -6 | SSE | 1 | bc | 48 | 92 | 46 | 8 | 5 | 3 | • | 2-3 | 4-6 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 12.9 | -14 | S | 4 | c | 55 | 85 | 51 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| | Roches Point | 14.3 | -2 | SSW | 2 | c | 55 | 92 | 53 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 3 |

## PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h–18h °F. (33) | Temperature Min. Night 18h–7h °F. (34) | Temperature Min. on Grass °F. (35) | Rainfall Day 7h–18h mm. (36) | Rainfall Night 18h–7h mm. (37) | Sunshine 3rd Hrs. (38) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 65 | 46 | 37 | - | 0.1 | 5.4 |
| | Croydon | 70 | 49 | 42 | - | Tr | 7.4 |
| | S. Farnborough | 69 | 43 | 34 | - | 0.1 | 7.5 |
| | Boscombe Down | 68 | 49 | 42 | 0.1 | 0.2 | 6.1 |
| | Thorney Island | 69 | 49 | 45 | - | 0.2 | * |
| | Lympne | 64 | 53 | 43 | - | 0.1 | 4.8 |
| | Manston | 62 | 54 | 43 | Tr | Tr | 5.6 |
| 2 | Shoeburyness | 60 | 49 | 39 | - | - | 1.2 |
| | Felixstowe | 60 | 56 | 46 | - | 0.3 | 0.5 |
| | Gorleston | 57 | 53 | 48 | - | - | 1.5 |
| | Mildenhall | 66 | 48 | 43 | - | Tr | 5.1 |
| | Cranwell | 60 | 44 | 37 | - | Tr | 1.0 |
| 3 | Birmingham | 63 | 49 | 43 | - | - | 4.1 |
| | Upper Heyford | 65 | 47 | 41 | - | - | * |
| 4 | Ross-on-Wye | 66 | 50 | 42 | - | - | 2.4 |
| 5 | Hartland Point | 62 | 52 | 49 | - | - | 8.9 |
| | Bristol | 66 | 47 | 37 | - | Tr | 7.5 |
| | Portland Bill | 61 | 55 | * | - | - | * |
| | Plymouth | 65 | 45 | 45 | - | - | 8.4 |
| | The Lizard | 60 | 55 | * | - | - | 3.3 |
| | Scilly (St. Mary's) | 64 | 55 | * | - | 1 | 4.7 |
| | Guernsey | | | | | | |
| 6 | Pembroke | 61 | 50 | * | - | Tr | 4.6 |
| 7 | Holyhead (Valley) | 59 | 55 | 50 | Tr | - | * |
| | Chester (Sealand) | 62 | 48 | 39 | Tr | - | 0.0 |
| 8 | Manchester | 60 | 49 | 42 | Tr | - | * |
| 10 | Spurn Head | 59 | 50 | * | - | - | 3.1 |
| | Catterick | 57 | 48 | 43 | - | - | 0.4 |
| | Tynemouth | 54 | 52 | 47 | - | - | * |
| 11 | St. Abbs Head | 54 | 47 | * | 0.6 | 0.4 | * |
| | Leuchars | 52 | 50 | 49 | 1 | 0.1 | 0.0 |
| 12 | Renfrew (Abbots I.) | 52 | 51 | 49 | 4 | 5 | 0.0 |
| | Eskdalemuir | 50 | 49 | 49 | * | 3 | 0.0 |
| | Point of Ayre | 57 | 50 | 50 | Tr | - | |
| 13A | Tiree | 51 | 51 | * | 5 | 18 | 0.0 |
| 13B | Stornoway | 52 | 42 | * | 6 | 11 | 0.0 |
| 15 | Dalwhinnie | 47 | 45 | 44 | 3 | 11 | 0.0 |
| | Aberdeen † | 55 | 50 | 47 | 3 | 0.4 | 0.0 |
| | Wick | 52 | 49 | 46 | 1 | 4 | * |
| 16 | Sumburgh | 53 | 49 | 46 | Tr | 8 | 5.5 |
| 17 | Blacksod Point | 56 | 52 | * | 6 | 15 | * |
| 18 | Malin Head | 54 | 52 | | 3 | 4 | 0.0 |
| | Aldergrove | 54 | 50 | 49 | 2 | 0.2 | 0.0 |
| 19 | Birr Castle | 63 | 46 | 41 | - | - | 1.4 |
| 20 | Valentia Obsy. | 59 | 53 | 50 | Tr | 0.1 | 6.0 |
| | Roches Point | 58 | 53 | * | Tr | 0.2 | * |

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 3rd October 18h. G.M.T. — 01h. G.M.T. 4th October 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 82 | 10864 | 16314 | 52 | 62744 | 49568 | 6- | 62638 | 49668 | 62 | 61636 | 55668 |
| 115 | | | | | | | 52 | 64736 | 54368 | 57 | 25844 | 28587 |
| 203 | | | | | | | 6- | 66728 | 16668 | | | |
| 206 | 62 | 62864 | 23368 | 62 | 62754 | 13468 | 5- | 62658 | 24168 | 57 | 02955 | 20467 |
| 210 | 02 | 62890 | 15268 | 62 | 10268 | 14748 | 02 | 61890 | 51468 | 53 | 21864 | 20365 |
| 220 | | | | | | | | | | 53 | 01854 | 27365 |
| 230 | 52 | 62855 | 17168 | 52 | 62645 | 17168 | 02 | 64648 | 20468 | 02 | 64638 | 23468 |
| 245 | 52 | 61642 | 20168 | 62 | 62768 | 16468 | 5- | 02758 | 20468 | 57 | 02745 | 54427 |
| 260 | 52 | 22875 | 18168 | 52 | 02745 | 12228 | 50 | 01764 | 53514 | 57 | 61765 | 55417 |
| 278 | 52 | 53635 | 14268 | 57 | 02854 | 12258 | 50 | 01763 | 18323 | 57 | 61854 | 16368 |
| 279 | 57 | 22665 | 07168 | 57 | 05665 | 18458 | 57 | 02755 | 22527 | 54 | 01844 | 20564 |
| 285 | 5- | 02857 | 14327 | | | | 00 | 08490 | 12100 | | | |
| 288 | 57 | 02851 | 16327 | 52 | 02447 | 15328 | 07 | 08490 | 16423 | 04 | 05590 | 00011 |
| 575 | 52 | 02734 | 14258 | 5- | 02846 | 51457 | 5- | 02845 | 51525 | 52 | 64636 | 16468 |
| 301 | 57 | 05565 | 16327 | | | | 00 | 43390 | 10100 | 04 | 41490 | 14242 |
| 321 | 5- | 05668 | 17248 | 07 | 05690 | 12226 | 00 | 08490 | 17200 | | | |
| 299 | 54 | 01764 | 22115 | | | | 00 | 05690 | 22300 | 00 | 08490 | 22300 |
| 292 | 53 | 05663 | 14127 | 57 | 05567 | 13228 | 00 | 08490 | 10200 | 00 | 46390 | 11140 |
| 310 | | | | | | | | | | | | |
| 614 | 57 | 05556 | 00028 | 04 | 05590 | 14124 | 00 | 45390 | 18200 | -- | 48009 | 22149 |

13h. G.M.T. 3rd October 18h. G.M.T. — 01h. G.M.T. 4th October 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 27 | 02754 | 18357 | 50 | 02844 | 18115 | 5- | 02758 | 18228 | 53 | 02754 | 16225 |
| 334 | -- | 02546 | 24117 | -- | 05572 | 28103 | | | | | | |
| 340 | 57 | 05555 | * * | 00 | 05690 | 16223 | 00 | 05590 | 16200 | 00 | 47190 | 13240 |
| 136 | 5- | 02773 | 05226 | 03 | 05590 | 14313 | 00 | 05590 | 18140 | -- | 46109 | 24249 |
| 336 | 13 | 01763 | 20314 | 54 | 01763 | 20314 | | | | | | |
| 350 | 5- | 05663 | 09245 | 00 | 05690 | 16125 | 00 | 47390 | 14240 | -- | 46009 | 19249 |
| 368 | 33 | 05544 | 04194 | 00 | 01690 | 08114 | 00 | 47190 | 00040 | -- | 48209 | 00049 |
| 379 | 00 | 05690 | 16345 | 00 | 05690 | 20114 | | | | | | |
| 390 | 00 | 41590 | 00045 | 00 | 47390 | 12244 | ** | 45090 | 00040 | -- | 46009 | 16149 |
| 382 | 00 | 05690 | 00025 | 00 | 05790 | 00025 | 00 | 08490 | 00000 | -- | 44209 | 00049 |
| 438 | 54 | 43453 | 00045 | 54 | 05653 | 04204 | 50 | 01642 | 00012 | -- | 46009 | 00049 |
| 430 | 10 | 05662 | 12115 | 00 | 05690 | 00025 | 00 | 47390 | 00010 | -- | 48009 | 00049 |
| 409 | 10 | 01852 | 15314 | 50 | 05642 | 18213 | 5- | 05638 | 14128 | 5- | 47308 | 16228 |

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 October.
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 * | bczow | cczow | bffFw |
| Croydon | bc,bm. | cz.bc,m. | bcfeofe |
| Greenwich | bmbczy | bczoy | bwctm |
| Camden Square | c | c | * |
| *Kensington | bcz | bcz | * |
| Hampstead | bcm | of | of |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.8 Time 11h on 3rd
Min. 0.4 Time 14-18h on 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 | 65 | 46 | 37 | - | 0.1 | 5.4 | * | * |
| Croydon | 70 | 49 | 42 | - | Tr | 7.4 | * | * |
| Greenwich | 68 | 49 | 34 | - | Tr | 4.9 | 63 | 96 |
| Westminster | 67 | 50 | 44 | - | - | | 82 | 98 |
| Regents Park | | | | | | | | |
| Camden Square | 67 | 48 | 40 | - | - | * | * | 99 |
| Kensington | 67 | 48 | 35 | - | Tr | | 87 | 98 |
| Hampstead | 67 | 51 | 48 | - | - | | * | 99 |

Page 1 **BRITISH SECTION**

SECRET

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

Monday 5th October 1942

No. 29557

## OBSERVATIONS at 13h. G.M.T. 4th October

| 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) | 15·7 | −16 | SW'W | 1 | Zo | 62 | 85 | 59 | 5 | 5 | – | – | 9+ | 9+ | 2500 |
| | Croydon | 16·5 | −14 | SSW | 2 | Zo | 65 | 85 | 60 | 6 | 5 | – | – | 9+ | 9+ | 1000 |
| | S. Farnborough | 15·5 | −16 | S | 2 | Zo | 65 | 85 | 61 | 6 | 5 | 1 | – | 9+ | 9+ | 2000 |
| | Boscombe Down | 16·0 | −12 | SSW | 1 | Zo | 60 | 92 | 58 | 6 | 5 | – | – | 10 | 10 | 600 |
| | Thorney Island | 15·9 | −10 | S | 3 | f+ | 62 | 92 | 60 | 2 | – | – | – | 10 | 10 | <150 |
| | Lympne | 16·3 | −16 | SSW | 1 | °/f | 60 | 92 | 58 | 5 | 5 | – | – | 10 | 10 | 200 |
| | Manston | 16·1 | −14 | W | 1 | Zo | 68 | 75 | 59 | 5 | 5 | – | – | Tr | Tr | 1500 |
| 2 | Shoeburyness | 16·6 | −14 | S'W | 1 | c-bc | 65 | 85 | 59 | 6 | 5 | – | – | 7·8 | 7·8 | 3500 |
| | Felixstowe | 16·1 | −14 | SSW | 2 | Zo | 63 | 85 | 58 | 5 | 5 | – | – | 7·8 | 7·8 | 1000 |
| | Gorleston | 17·6 | −8 | SW | 3 | Zo | 63 | 75 | 53 | 6 | – | – | – | 0 | 7·8 | – |
| | Mildenhall | 15·2 | −16 | SW | 2 | Zo | 67 | 75 | 57 | 6 | – | – | – | 0 | 0 | – |
| | Cranwell | 13·7 | −16 | WSW | 4 | Zo | 61 | 85 | 56 | 6 | – | 3 | – | 0 | 9+ | – |
| 3 | Birmingham | 14·3 | −8 | SSW | 3 | c-bc | 62 | 75 | 54 | 7 | 5 | 7 | – | 4-6 | 7·8 | 2500 |
| | Upper Heyford | 14·9 | −18 | SW | 2 | Zo | 66 | 65 | 55 | 6 | – | – | – | 0 | 0 | – |
| 4 | Ross-on-Wye | 14·8 | −10 | WSW | 2 | Zo | 61 | 85 | 57 | 6 | 5 | – | – | 10 | 10 | 1500 |
| 5 | Hartland Point | 14·8 | −2 | SW | 1 | Zo | 58 | 97 | 58 | 6 | 5 | – | – | 10 | 10 | 600 |
| | Bristol | 15·7 | −8 | SSW | 1 | Zo | 65 | 85 | 59 | 6 | 5 | 3 | – | 7·8 | 9+ | 2500 |
| | Portland Bill | 16·0 | −2 | SE | 2 | f | 60 | 85 | 54 | 3 | 5 | – | – | 10 | 10 | <150 |
| | Plymouth | 15·7 | −6 | SSW | 2 | ido | 58 | 97 | 58 | 4 | 5 | – | – | 10 | 10 | <150 |
| | The Lizard | 14·5 | −10 | – | 0 | c | 58 | 97 | 58 | 7 | 5 | 2 | – | 9 | 10 | 1000 |
| | Scilly (St. Mary's) | 14·7 | −12 | W'S | 1 | c | 60 | 97 | 59 | 7 | 8 | – | – | 10 | 10 | 800 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 14·6 | +4 | SW'W | 3 | df | 57 | 92 | 57 | 3 | – | – | – | 10 | 10 | <150 |
| 7 | Holyhead (Valley) | 13·4 | −4 | S | 5 | c | 58 | 85 | 54 | 7 | 5 | – | – | 9+ | 9+ | 2500 |
| | Chester (Sealand) | 12·6 | −8 | SW | 2 | c-bc | 64 | 85 | 60 | 7 | 8 | – | – | 7·8 | 7·8 | 4500 |
| 8 | Manchester | 12·9 | −18 | S'E | 4 | Zo | 62 | 85 | 56 | 6 | 5 | 7 | – | 4-6 | 9 | 2500 |
| 10 | Spurn Head | 13·7 | −14 | SW'W | 3 | Zo | 63 | 65 | 51 | 6 | – | – | – | 0 | 0 | – |
| | Catterick | 12·2 | −10 | WSW | 3 | Zo | 63 | 75 | 54 | 6 | – | 3 | 9 | 0 | 4-6 | – |
| | Tynemouth | 11·8 | ● | WSW | 4 | c-bc | 64 | 65 | 52 | 6 | 5 | 3 | – | 4-6 | 7·8 | 2800 |
| 11 | St. Abbs Head | 08·8 | +6 | SW | 4 | c | 57 | 85 | 51 | 8 | 5 | 4 | – | 7·8 | 9+ | 3000 |
| | Leuchars | 08·5 | +8 | SW | 4 | ifo | 56 | 85 | 53 | 6 | 5 | 7 | – | 2-3 | 9+ | 1500 |
| 12 | Renfrew (Abbots I.) | 09·6 | +8 | WNW | 3 | c | 54 | 85 | 60 | 8 | 5 | 2 | – | 7·8 | 9+ | 1600 |
| | Eskdalemuir | 10·5 | 0 | SW'S | 5 | roro | 53 | 92 | 51 | 6 | 6 | – | – | 10 | 10 | 700 |
| | Point of Ayre | 11·6 | 0 | W'S | 4 | dodo | 56 | 97 | 54 | 6 | 6 | 2 | – | 10 | 10 | 2500 |
| 13A | Tiree | 11·5 | +6 | NNW | 3 | bc | 53 | 65 | 41 | 9 | 1 | – | 6 | 2-3 | 4-6 | 3500 |
| 13B | Stornoway | 07·6 | +2 | WSW | 5 | c-bc | 53 | 75 | 45 | 8 | 2 | 6 | – | 4-6 | 7·8 | 2500 |
| 15 | Dalwhinnie | 08·8 | +12 | SSW | 3 | bc | 55 | 55 | 41 | 8 | 8 | 4 | 4 | 4-6 | 4-6 | 2500 |
| | Aberdeen | 08·5 | +16 | N | 1 | °/d | 54 | 92 | 51 | 8 | 5 | 7 | – | 7·8 | 9+ | 2000 |
| | Wick | 07·8 | +14 | WNW | 2 | bc | 55 | 92 | 51 | 9 | 8 | – | – | 4-6 | 4-6 | 3000 |
| 16 | Sumburgh | 00·4 | +26 | W | 6 | pr | 51 | 75 | 42 | 8 | 8 | – | – | 7·8 | 7·8 | 1600 |
| 17 | Blacksod Point | 12·6 | +6 | N'E | 3 | c | 55 | 75 | 47 | 8 | 8 | – | – | 9 | 9 | 2500 |
| 18 | Malin Head | 11·1 | +6 | NNW | 3 | c-bc | 53 | 65 | 42 | 8 | 8 | 5 | 1 | 4-6 | 7·8 | 1500 |
| | Aldergrove | 11·3 | +6 | SW'W | 2 | rr | 53 | 97 | 51 | 5 | 6 | – | – | 10 | 10 | 600 |
| 19 | *Birr Castle | 11·9 | −2 | SSW | 3 | c | 58 | 85 | 54 | 8 | 5 | – | – | 10 | 10 | 2500 |
| 20 | Valentia Obsy. | 12·5 | −6 | S | 3 | dodo | 56 | 97 | 55 | 6 | 5 | 2 | – | 9+ | 10 | 450 |
| | Roches Point | 13·1 | −8 | WSW | 2 | c | 57 | 85 | 53 | 8 | 5 | – | – | 9+ | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 4th October — 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. 4th (39) | Weather 13h.–18h. 4th (40) | Weather 18h. 4th to 1h. 5th (41) | Weather 1h.–7h. 5th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 14·3 | −4 | SSW | 2 | Zo | 62 | 92 | 59 | 5 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * | cfmow | cmo | cmo | cmo |
| Croydon | 15·2 | −6 | SSW | 2 | Zo | 62 | 92 | 61 | 5 | 5 | 3 | – | 7·8 | 9 | 1800 | 1 | * | cfecmmo | cmobcmo | oidofodom | ododoom |
| S. Farnborough | 14·5 | −2 | NW | 1 | m | 63 | 85 | 60 | 4 | 5 | 7 | – | 9 | 10 | 1800 | D | * | bmowofecm | cmobczocm | cmfeidom | ocdomoirom |
| Boscombe Down | 14·8 | −6 | S'E | 3 | of+ | 60 | 97 | 59 | 2 | 5 | – | – | 10 | 10 | 400 | 0 | * | ofe, cmo | cmoomofe | fdommo | modommo |
| Thorney Island | 15·0 | −2 | SW'S | 1 | ido | 60 | 97 | 60 | 3 | 5 | • | – | 10 | 10 | 200 | 1 | * | Fffcmof | fe odo | ffdocmo | cmo |
| Lympne | 15·4 | −2 | – | 0 | Zo | 58 | 97 | 58 | 5 | 5 | – | – | 10 | 10 | 200 | 1 | § | ofeff | pcmo | of feof | offF |
| Manston | 15·0 | −6 | SSW | 1 | Zo | 59 | 92 | 56 | 5 | – | 4 | – | 0 | Tr | – | 0 | * | ofcmbmozo | bb czo | ofdodo | ofndodo |
| Shoeburyness | 15·5 | −4 | S'W | 1 | c-bc | 61 | 92 | 59 | 5 | 5 | – | – | 7·8 | 7·8 | 3500 | 1 | * | fcmcmo | cmo | cmo | omoidoo |
| Felixstowe | 14·5 | −6 | S'W | 1 | Zo | 60 | 92 | 58 | 5 | – | – | 2 | 0 | 4-6 | – | 0 | | bmofomcm | bcmocmo | bcmobcbmo | wfubfwomoomo |
| Gorleston | 14·3 | −2 | SSW | 2 | Zo | 60 | 92 | 58 | 5 | 5 | 3 | – | 4-6 | 4-6 | 1500 | 0 | 3 | cbcbzo | bbczomo | f | b ffedo |
| Mildenhall | 14·0 | −2 | SW | 2 | Zo | 63 | 85 | 58 | 5 | – | 4 | – | 0 | Tr | – | 0 | * | cbcbmo | bzobmo | bmbfof | ofofwcmo |
| Cranwell | 13·3 | +2 | SW'W | 2 | Zo | 61 | 85 | 57 | 6 | – | 3 | – | 0 | 9 | – | 0 | * | bfeb, cmo | cbccmo | bccmo | cmo ifomo |
| Birmingham | 13·6 | −2 | SSW | 1 | Zo | 61 | 85 | 57 | 6 | 5 | – | – | 9+ | 9+ | 4000 | 1 | * | fobc | bccz | cmo | crom |
| Upper Heyford | 13·7 | −4 | – | 0 | Zo | 63 | 85 | 59 | 6 | – | 4 | 1 | 0 | 1 | – | 0 | * | ofcmob | bzocmo | cmooidom | idozo |
| Ross-on-Wye | 13·7 | −10 | WSW | 1 | c | 61 | 85 | 58 | 6 | 5 | – | – | 10 | 10 | 3000 | 1 | * | czbcc | omoczoo | cmo | cpoodoo |
| Hartland Point | 13·9 | +4 | WSW | 2 | c/d | 56 | 97 | 56 | 7 | 5 | 2 | – | 7·8 | 9+ | 1500 | 1 | 3 | cododomo | dfd fc | c | cproc |
| Bristol | 14·5 | −10 | S'W | 1 | Zo | 62 | 92 | 59 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * | bbccmo | cmo ido | cmomomo | omoido |
| Portland Bill | 14·5 | −2 | WSW | 2 | o | 59 | 92 | 57 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | 3 | f | o | o | o |
| Plymouth | 14·4 | +2 | SSW | 2 | Zo | 58 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 1000 | 1 | 2 | omfido | cmo | cmoidomo | cidoforom |
| The Lizard | 13·5 | −4 | SSE | 1 | oF | 57 | 97 | 57 | 1 | 5 | – | – | 10 | 10 | 200 | 1 | 3 | ffmc | cffe | pmffe | cfido |
| Scilly (St. Mary's) | 13·6 | −4 | SE'S | 2 | c | 58 | 97 | 57 | 8 | 8 | 7 | – | 4-6 | 10 | 1200 | 1 | 2 | ofc | c | c | copc |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 13·5 | −10 | S | 3 | c-bc | 58 | 97 | 58 | 7 | 8 | – | – | 10 | 10 | 2500 | 1 | 2 | odfdf | c | iroc | ciromo |
| Holyhead (Valley) | 12·4 | −8 | SW'S | 4 | c | 57 | 92 | 54 | 7 | 8 | 7 | – | 9 | 10 | 1500 | 0 | 4 | c | c | cdodom | c |
| Chester (Sealand) | 12·6 | 0 | SSW | 1 | c | 60 | 85 | 55 | 7 | 5 | 7 | – | 7·8 | 9 | 3000 | 0 | * | bcmozoc | ccmo | cromo | cbc iro |
| Manchester | 13·1 | +2 | SE | 1 | Zo | 57 | 92 | 54 | 5 | 5 | 2 | – | 9 | 10 | 2500 | 0 | * | bcmcmo | cmoidom | cidomo | bbciromo |
| Spurn Head | 13·2 | +2 | SW | 4 | Zo | 62 | 85 | 56 | 5 | 7 | 2 | – | 7·8 | 10 | 2500 | 0 | 3 | czo | cm | cmo | cmo |
| Catterick | 12·2 | +2 | – | 0 | c-bc | 57 | 85 | 51 | 7 | 5 | 9 | 4 | 1 | 7·8 | 3000 | 0 | * | bcmo | bcmoc | cmo | |
| Tynemouth | 12·2 | +4 | SW | 3 | c-bc | 58 | 85 | 52 | 6 | 5 | – | – | 7·8 | 7·8 | 2800 | 1 | 2 | bcc | c | roro | |
| St. Abbs Head | 10·3 | +10 | WNW | 2 | ido | 55 | 85 | 51 | 6 | 5 | – | – | 10 | 10 | 2500 | 0 | | ciroc | cido | rr | |
| Leuchars | 09·7 | +8 | SW | 1 | c | 55 | 85 | 51 | 7 | 5 | 4 | 8 | 1 | 10 | 4500 | 1 | * | crorociro | irocmoc | ociro | cirocmobc |
| Renfrew (Abbots I.) | 10·5 | +6 | SW'W | 2 | c | 51 | 75 | 43 | 8 | 5 | 1 | – | 7·8 | 9+ | 5700 | 1 | * | cmororoc | c | cmoiroc | cmoiroc |
| Eskdalemuir | 11·0 | +6 | SW | 3 | roro | 52 | 97 | 51 | 6 | – | 2 | – | 10 | 10 | 200 | 1 | * | crromo | crpro | oromo | orrcbc |
| Point of Ayre | 11·4 | +2 | WSW | 2 | dodo | 55 | 97 | 55 | 6 | 6 | 2 | – | 7·8 | 10 | 800 | 1 | 3 | cdodo | cdodo | ororodo | roroc |
| Tiree | 10·2 | −4 | W | 2 | c-bc | 53 | 85 | 49 | 9 | 8 | 3 | 8 | 2-3 | 7·8 | 3000 | 0 | 3 | bc | bcc | cbc | cirbc |
| Stornoway | 08·3 | −2 | WSW | 3 | c-bc | 48 | 85 | 44 | 8 | 2 | 4 | 8 | 2-3 | 7·8 | 2500 | 1 | 2 | c | cpr | bccpr | crrq |
| Dalwhinnie | 10·4 | +10 | W | 2 | c-bc | 48 | 75 | 39 | 8 | 5 | 3 | – | 4-6 | 7·8 | 2500 | 0 | * | oidobcy | bcc | * | coiroc |
| Aberdeen | 10·3 | +8 | – | 0 | c | 52 | 85 | 48 | 8 | – | 7 | – | 0 | 9+ | – | 1 | 1 | ODDZoc | cidoc | ciroc | cbcb |
| Wick | 09·3 | +6 | – | 0 | c | 48 | 75 | 42 | 9 | 5 | 7 | – | 2-3 | 10 | 2500 | 1 | * | cbc | c | bc | bc |
| Sumburgh | 06·6 | +14 | N | 6 | c-bc | 50 | 75 | 42 | 9 | 2 | 6 | 2 | 4-6 | 7·8 | 2000 | 1 | 5 | cidonopro | cprobcc | bccprocpc | cprir |
| Blacksod Point | 11·9 | −2 | N'E | 3 | c | 53 | 75 | 45 | 8 | 5 | – | – | 10 | 10 | 4000 | 1 | 3 | c | c | bc | pr |
| Malin Head | 10·8 | +2 | N | 1 | c | 51 | 65 | 40 | 8 | 5 | – | – | 9 | 9 | 2500 | 2 | 2 | r | c | c | r |
| Aldergrove | 11·7 | +6 | NE | 2 | dd | 49 | 97 | 49 | 4 | 6 | – | – | 10 | 10 | 500 | 1 | * | crrmo | crrddm | croromo | crorombc |
| *Birr Castle | 11·0 | −4 | SSW | 1 | rr | 57 | 97 | 56 | 7 | 6 | 2 | – | 7·8 | 10 | 800 | 1 | * | c | r | ● | d |
| Valentia Obsy. | 12·0 | +2 | S | 3 | roro | 56 | 97 | 55 | 6 | 5 | – | – | 10 | 10 | 450 | 1 | 2 | r | r | r | pr |
| Roches Point | 12·0 | −6 | SW | 2 | c | 56 | 92 | 54 | 8 | 5 | – | – | 9+ | 9+ | 1500 | 1 | | c | c | r | c |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 5th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England | Light variable winds becoming North to North East moderate; cloudy; occasional rain; cooler. |
| 2 E. England; 3 E. Midlands; 4 W. Midlands | Light variable winds becoming North to North East light or moderate; occasional rain at first; fair later; cooler. |
| 5 S.W. England; 6 South Wales | As 1. |
| 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England | Moderate North West wind backing and decreasing; fair, much cooler, local night frost. |
| 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man | Moderate or fresh West to North West wind, strong to gale locally on coast decreasing; bright intervals, showers at first, fair later much cooler local night frost. |
| 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Fresh or strong West to North West wind, gale on coasts decreasing later; bright intervals, showers of rain or hail, local thunder; very cool. |
| 16 Orkneys and Shetlands | As 13a–15 |
| 17 N. W. Ireland; 18 N. E. Ireland | As 11–12 |
| 19 S. E. Ireland; 20 S. W. Ireland | As 7–10 |

### GENERAL INFERENCE

A deep depression near Faeroes is moving East South East and an associated trough over the Midlands is moving South East. An anticyclone is approaching West Ireland. There will be much cloud in the South with occasional rain; in the North there will be variable cloud and showers of rain or hail with local thunderstorms. It will become much cooler than of late particularly in the North.

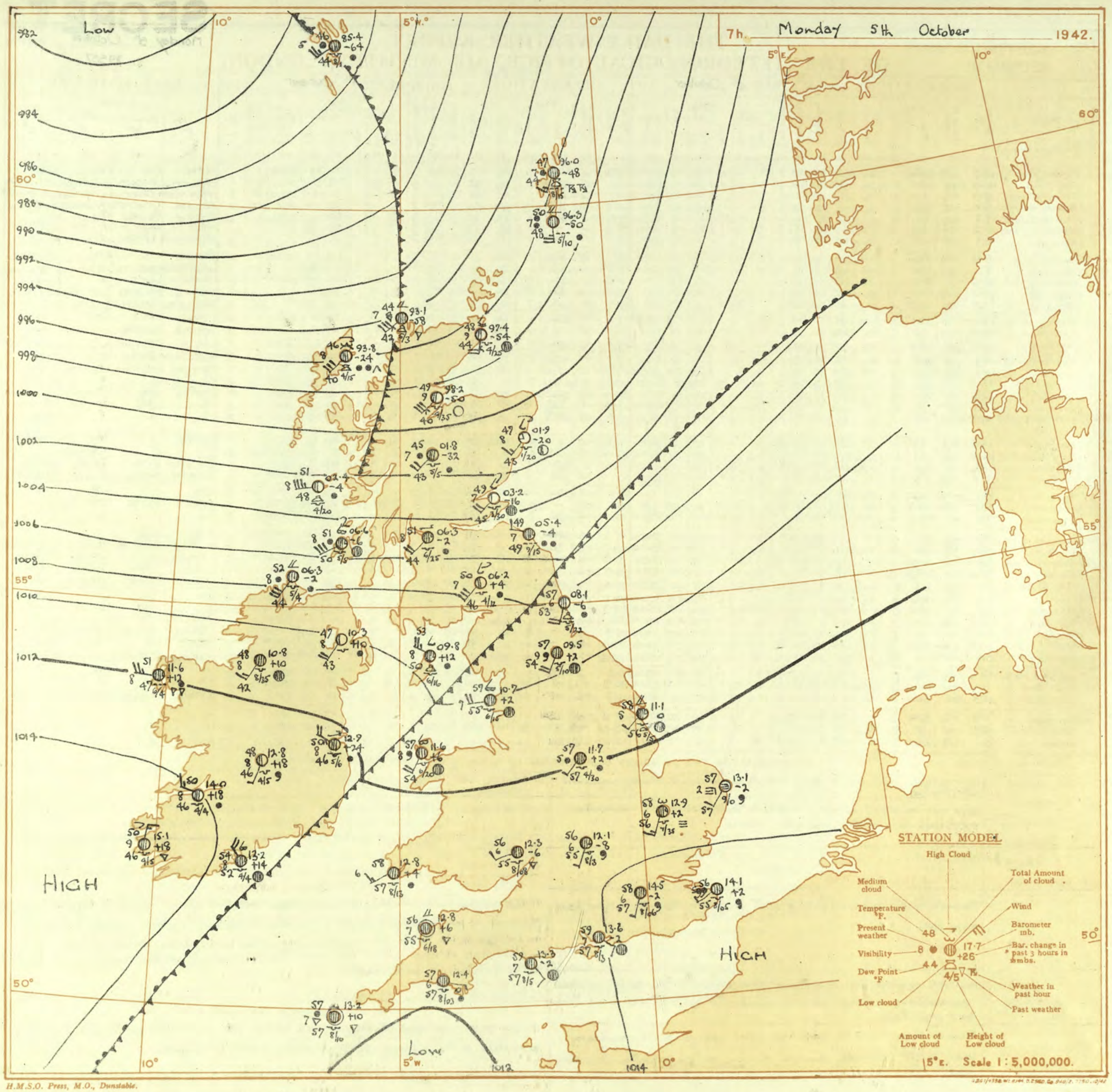
### FURTHER OUTLOOK

Mainly fair over most of England and Wales with local night frosts; cloud perhaps persisting in the extreme South of England 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




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

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

**Explanation of Frontal Lines shown on Charts**

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

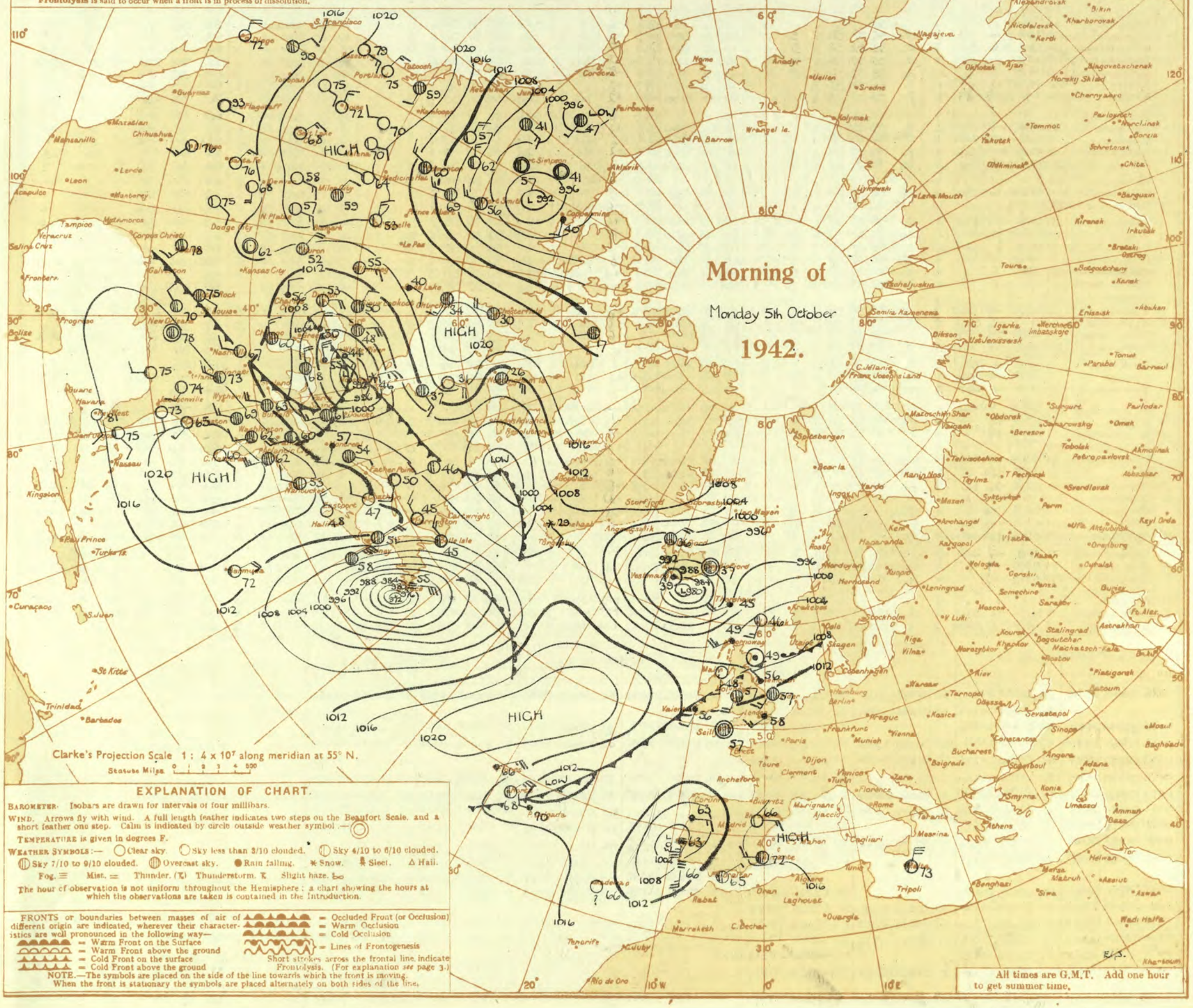
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Monday 5th October 1942

No. 29537

## OBSERVATIONS at 1 hr. G.M.T. 5th October

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | °F. Dew Point. (8) | Visibility. 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base. (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 58 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 14·8 | −6 | SW | 3 | id. | 58 | 97 | 58 | 4 | 5 | − | − | 10 | 10 | 300 |
| | S. Farnborough | 226 | 13·9 | −6 | SW | 2 | $Z_o$ | 58 | 92 | 56 | 5 | 5 | − | − | 10 | 10 | 700 |
| | Boscombe Down | 417 | 14·8 | 0 | SW'S | 2 | $Z_o$ | 57 | 97 | 56 | 6 | 5 | − | − | 10 | 10 | 600 |
| | Thorney Island | 10 | 14·3 | −6 | S | 2 | $Z_o$ | 59 | 92 | 57 | 5 | 5 | − | − | 10 | 10 | 900 |
| | Lympne .. | 283 | 15·0 | +2 | W | 1 | f− | 56 | 97 | 56 | 3 | − | − | − | 10 | 10 | <150 |
| | Manston ... | 154 | 14·1 | −6 | SW'S | 2 | f− | 57 | 97 | 56 | 3 | − | − | − | 10 | 10 | <150 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 13·8 | −6 | S'W | 2 | f | 59 | 97 | 59 | 2 | − | − | − | 10 | 10 | 1500 |
| | Gorleston ... | 5 | 13·3 | −10 | SW'S | 1 | f+ | 56 | 97 | 55 | 1 | − | − | − | 10 | 10 | <150 |
| | Mildenhall ... | 15 | 12·3 | −2 | SW'W | 1 | f− | 59 | 97 | 58 | 2 | − | − | − | 10 | 10 | <150 |
| | Cranwell ... | 203 | 12·2 | −6 | SW | 3 | $Z_o$ | 59 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 2200 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 13·2 | −6 | SW | 2 | id. | 58 | 97 | 57 | 5 | 5 | − | − | 10 | 10 | 400 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 13·2 | 0 | WSW | 3 | c | 58 | 97 | 57 | 7 | 5 | 2 | − | 7·8 | 10 | 2500 |
| | Bristol ... | 209 | 14·4 | +2 | SW | 2 | $Z_o$ | 58 | 92 | 56 | 6 | 5 | − | − | 10 | 10 | 1000 |
| | Portland Bill ... | 32 | 14·2 | 0 | SE | 2 | 0 | 59 | 92 | 57 | 7 | 5 | − | − | 10 | 10 | 2500 |
| | Plymouth ... | 82 | 14·2 | 0 | − | 0 | id. | 58 | 97 | 57 | 6 | 5 | − | − | 7·8 | 10 | 800 |
| | The Lizard ... | 240 | 12·9 | −6 | − | 0 | of+ | 57 | 97 | 57 | 2 | 5 | − | − | 10 | 10 | 400 |
| | Scilly (St. Mary's) | 163 | 13·1 | −2 | − | 0 | 0 | 57 | 97 | 57 | 8 | 5 | − | − | 10 | 10 | 1200 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 13·0 | −4 | SW'S | 3 | c | 57 | 97 | 57 | 7 | 5 | − | − | 9 | 9 | 2500 |
| 7 | Holyhead (Valley) | 32 | 11·6 | −6 | SSW | 4 | 9d. | 57 | 92 | 54 | 6 | 5 | − | − | 10 | 10 | 1200 |
| | Chester (Sealand) | 16 | 10·9 | −4 | S'E | 1 | c | 59 | 85 | 55 | 7 | 5 | 3 | − | 4·6 | 9+ | 1600 |
| 8 | Manchester ... | 235 | 11·8 | −4 | SSE | 3 | $Z_o$ | 57 | 97 | 56 | 5 | 5 | − | − | 10 | 10 | 1800 |
| 10 | Spurn Head ... | 29 | 12·4 | −4 | SSW | 3 | $Z_o$ | 57 | 97 | 55 | 5 | 7 | 2 | − | 4·6 | 10 | 2500 |
| | Catterick ... | 175 | 10·8 | −10 | SSW | 1 | $Z_o$ | 58 | 85 | 53 | 6 | 5 | 7 | − | 7·8 | 9+ | 1300 |
| | Tynemouth ... | 108 | 11·2 | −6 | NW | 2 | rofo | 56 | 85 | 52 | 6 | − | 2 | − | 10 | 10 | 2500 |
| 11 | St. Abbs Head | 280 | 08·5 | −10 | SW | 1 | rr | 52 | 97 | 52 | 6 | 5 | − | − | 10 | 10 | 1500 |
| | Leuchars ... | 36 | 07·9 | −14 | − | 0 | ifo | 49 | 85 | 45 | 7 | 5 | − | − | 10 | 10 | 3200 |
| 12 | Renfrew (Abbots I.) | 19 | 08·0 | −18 | − | 0 | c/r | 49 | 92 | 46 | 6 | 5 | 2 | − | 7·8 | 10 | 3000 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 09·4 | −10 | SW'W | 2 | dbd | 56 | 97 | 56 | 6 | − | 2 | − | 10 | 10 | 1500 |
| 13a | Tiree ... ... | 22 | 06·7 | −24 | W | 2 | b-bc | 49 | 75 | 41 | 8 | 5 | − | − | 2-3 | 2-3 | 2500 |
| 13b | Stornoway ... | 80 | 02·4 | −36 | SW | 5 | pr | 49 | 75 | 42 | 7 | 8 | 7 | − | 7·8 | 9+ | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 06·8 | −24 | − | 0 | dodo | 49 | 97 | 49 | 4 | 5 | − | − | 10 | 10 | 300 |
| | Wick ... | 114 | 07·0 | −14 | SW | 1 | bc | 48 | 92 | 46 | 9 | 5 | − | − | 4·6 | 4·6 | 2000 |
| 16 | Sumburgh .. | 19 | 05·6 | −14 | WSW | 4 | c/pr | 49 | 85 | 44 | 7 | 8 | − | − | 9 | 9 | 1500 |
| 17 | Blacksod Point | 18 | 10·9 | −6 | WSW | 3 | b-bc | 51 | 85 | 47 | 8 | 2 | − | − | 2-3 | 2-3 | 2500 |
| 18 | Malin Head ... | 84 | 08·0 | −14 | S | 3 | b-bc | 48 | 85 | 44 | 8 | 5 | − | − | 2-3 | 2-3 | 2500 |
| | Aldergrove ... | 268 | 09·3 | −10 | − | 0 | rofo | 50 | 97 | 49 | 5 | 5 | − | − | 10 | 10 | 200 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 11·9 | −2 | SSW | 2 | dodo | 56 | 97 | 55 | 5 | 5 | 1 | − | 10 | 10 | 450 |
| | Roches Point | 22 | 12·4 | −2 | SW'W | 2 | c | 55 | 92 | 53 | 8 | 8 | − | − | 9 | 9 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 5th October

| District | Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | °F. Dew Point. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea. 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 13·2 | −6 | S | 2 | $Z_o$ | 58 | 97 | 56 | 6 | 5 | − | − | 10 | 10 | 1500 | 1 | * |
| | Croydon ... | 14·5 | −2 | S | 1 | $Z_o$ | 58 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 600 | 1 | * |
| | S. Farnborough | 13·3 | −2 | SSE | 1 | ifo | 57 | 92 | 56 | 4 | 5 | − | − | 10 | 10 | 600 | 1 | * |
| | Boscombe Down | 13·6 | −2 | SSW | 2 | $Z_o$ | 57 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 300 | 1 | * |
| | Thorney Island | 13·6 | −2 | SE | 2 | 0 | 59 | 97 | 57 | 7 | 5 | − | − | 10 | 10 | 800 | 0 | * |
| | Lympne .. | 14·3 | +2 | − | 0 | f | 56 | 97 | 56 | 1 | − | − | − | 10 | 10 | <150 | 1 | § 0 |
| | Manston ... | 14·1 | +2 | W'S | 1 | dodo | 56 | 97 | 55 | 5 | 5 | − | − | 10 | 10 | 500 | 0 | * |
| 2 | Shoeburyness ... | 14·3 | 0 | SW'S | 2 | id. | 5 | 97 | 56 | 4 | 5 | − | − | 10 | 10 | 500 | 1 | * |
| | Felixstowe ... | 13·6 | +2 | WSW | 2 | m | 57 | 97 | 57 | 4 | 5 | − | − | 10 | 10 | 400 | 1 | 1 |
| | Gorleston ... | 13·1 | −2 | SW | 1 | f− | 57 | 97 | 57 | 2 | − | − | − | 10 | 10 | <150 | 1 | * |
| | Mildenhall ... | 12·9 | +2 | SSW | 3 | $Z_o$ | 58 | 97 | 56 | 6 | 5 | 3 | − | 9+ | 9+ | 3500 | 0 | * |
| | Cranwell ... | 11·2 | 0 | SW | 2 | ifo | 57 | 97 | 56 | 6 | 5 | − | − | 9+ | 9+ | 3500 | 1 | * |
| 3 | Birmingham ... | 12·0 | −4 | WSW | 3 | m | 56 | 92 | 54 | 4 | 5 | − | − | 10 | 10 | 800 | 1 | * |
| | Upper Heyford | 12·1 | −8 | SSW | 1 | $Z_o$ | 56 | 97 | 55 | 6 | 5 | − | − | 10 | 10 | 800 | 0 | * |
| 4 | Ross-on-Wye | 12·3 | −6 | W'S | 1 | $Z_o$ | 56 | 97 | 55 | 6 | 5 | − | − | 10 | 10 | 800 | 1 | * |
| 5 | Hartland Point | 12·8 | +6 | − | 0 | c | 56 | 97 | 55 | 7 | 5 | 2 | − | 9 | 10 | 1800 | 1 | |
| | Bristol ... | 13·7 | −4 | − | 0 | 0/d | 57 | 97 | 56 | 6 | 5 | − | − | 10 | 10 | 800 | 1 | * |
| | Portland Bill ... | 13·3 | −2 | SE | 2 | 0 | 59 | 92 | 57 | 7 | 5 | − | − | 10 | 10 | 2500 | 0 | 3 |
| | Plymouth ... | 12·4 | 0 | E'S | 1 | $Z_o$ | 57 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 300 | 1 | 2 |
| | The Lizard ... | 11·4 | +4 | NE | 2 | of+ | 57 | 97 | 57 | 3 | 5 | − | − | 10 | 10 | 400 | 1 | 3 |
| | Scilly (St. Mary's) | 13·2 | +10 | − | 0 | pr | 57 | 97 | 57 | 7 | 5 | − | − | 10 | 10 | 1000 | 1 | |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 12·8 | +4 | WSW | 3 | $Z_o$ | 58 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 1300 | 1 | 2 |
| 7 | Holyhead (Valley) | 11·6 | +6 | SW | 4 | id. | 57 | 92 | 54 | 8 | 5 | 7 | − | 9 | 10 | 2000 | 1 | 3 |
| | Chester (Sealand) | 11·2 | −6 | W'N | 1 | ifo | 59 | 85 | 54 | 7 | 5 | 9 | − | 4·6 | 9 | 2000 | 1 | * |
| 8 | Manchester ... | 11·2 | 0 | S | 3 | $Z_o$ | 55 | 97 | 54 | 6 | 5 | 3 | 9 | 4·6 | 7·8 | 2500 | 1 | * |
| 10 | Spurn Head ... | 11·1 | 0 | WSW | 2 | $Z_o$ | 58 | 92 | 56 | 5 | 7 | 2 | − | 7·8 | 9 | 2500 | 0 | 3 |
| | Catterick ... | 09·5 | +2 | SW | 4 | id. | 57 | 92 | 54 | 9 | 5 | − | − | 7·8 | 10 | 1000 | 0 | * |
| | Tynemouth ... | 08·1 | −6 | SSW | 4 | $Z_o$ | 57 | 85 | 53 | 6 | 8 | − | − | 7·8 | 7·8 | 2200 | 1 | |
| 11 | St. Abbs Head | 05·4 | −4 | WNW | 2 | c/r | 49 | 97 | 49 | 7 | 6 | − | − | 9+ | 9+ | 1500 | 1 | |
| | Leuchars ... | 03·2 | −16 | SW | 4 | b-bc | 49 | 85 | 45 | 7 | 5 | 4 | 4 | 2-3 | 2-3 | 3000 | 1 | * |
| 12 | Renfrew (Abbots I.) | 06·3 | −2 | SW | 4 | c | 51 | 75 | 43 | 8 | 5 | − | 8 | 9 | 9+ | 2500 | 1 | * |
| | Eskdalemuir ... | 06·2 | +4 | WSW | 6 | bc | 50 | 85 | 46 | 7 | 5 | 4 | 1 | 4·6 | 4·6 | 1200 | 1 | * |
| | Point of Ayre... | 09·8 | +12 | NW'N | 5 | c | 53 | 92 | 50 | 8 | 8 | 4 | − | 9 | 9+ | 1600 | 1 | |
| 13a | Tiree ... ... | 02·4 | −4 | W | 7 | bc | 51 | 85 | 48 | 8 | 8 | − | − | 4·6 | 4·6 | 2000 | 1 | 6 |
| 13b | Stornoway ... | 03·8 | +24 | SW | 6 | c-bc/r | 46 | 85 | 40 | 8 | 3 | 6 | 3 | 4-6 | 7·8 | 1600 | 1 | 4 |
| 15 | Dalwhinnie ... | 02·0 | −32 | SW | 4 | ifo | 45 | 85 | 40 | 7 | 5 | − | − | 7·8 | 7·8 | 2500 | 1 | * |
| | Aberdeen † ... | 01·9 | −20 | SW'S | 3 | b | 47 | 85 | 43 | 8 | 5 | 4 | 1 | Tr | 1 | 2000 | 1 | 2 |
| | Wick ... | 97·4 | −54 | S | 4 | bc | 48 | 75 | 41 | 9 | 5 | 9 | − | 4·6 | 4·6 | 2500 | 0 | * |
| 16 | Sumburgh .. | 96·3 | −50 | S | 5 | ir | 50 | 92 | 48 | 7 | 6 | 2 | − | 7·8 | 10 | 1000 | 1 | 3 |
| 17 | Blacksod Point | 11·6 | +12 | W | 5 | c/pr | 51 | 85 | 47 | 8 | 6 | − | − | 9 | 9 | 1500 | 1 | + |
| 18 | Malin Head ... | 06·3 | −2 | SW | 6 | r | 52 | 75 | 44 | 8 | 5 | 2 | − | 7·8 | 10 | 1500 | 1 | 5 |
| | Aldergrove ... | 10·3 | +10 | SW | 4 | b-bc | 46 | 85 | 39 | 8 | 5 | − | 5 | 1 | 2-3 | 2500 | 1 | * |
| 19 | Birr Castle ... | 12·8 | +18 | SSW | 1 | bc | 48 | 92 | 46 | 8 | 5 | − | − | 4·6 | 4·6 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 15·4 | +18 | N'E | 3 | c-bc | 51 | 85 | 47 | 9 | 5 | − | 3 | 4-6 | 7·8 | 2500 | 1 | 3 |
| | Roches Point | 13·2 | +14 | NNW | 4 | c | 54 | 92 | 52 | 8 | 8 | 7 | − | 4-6 | 9 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| District | Stations | Temperature. Max. Day 7h–18h °F. (33) | Min. Night 18h–7h °F (34) | Min. on Grass °F. (35) | Rainfall. Day 7h–18h mm. (36) | Night 18h–7h. mm. (37) | Sunshine 4th Hrs. (38) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 66 | 57 | 57 | − | − | 1·1 |
| | Croydon ... | 68 | 57 | 56 | − | Tr | 2·0 |
| | S. Farnborough | 69 | 56 | 56 | Tr | Tr | 1·6 |
| | Boscombe Down | 62 | 56 | 55 | Tr | 0·3 | 0·0 |
| | Thorney Island | 64 | 56 | | Tr | 0·2 | * |
| | Lympne .. | 62 | 55 | 55 | 0·1 | 0·1 | 0·0 |
| | Manston ... | 70 | 55 | 49 | − | Tr | 6·4 |
| 2 | Shoeburyness ... | 69 | 56 | 50 | − | Tr | 2·9 |
| | Felixstowe ... | 67 | 55 | 48 | − | 0·3 | 3·3 |
| | Gorleston ... | 65 | 55 | 52 | − | 0·1 | 7·7 |
| | Mildenhall ... | 69 | 56 | | − | Tr | 5·3 |
| | Cranwell ... | 66 | 56 | 52 | Tr | 0·3 | 5·2 |
| 3 | Birmingham ... | 63 | 56 | 51 | − | 1 | 1·4 |
| | Upper Heyford | 69 | 56 | 54 | − | Tr | * |
| 4 | Ross-on-Wye | 63 | 56 | 53 | − | 0·1 | 1·6 |
| 5 | Hartland Point | 59 | 56 | 55 | 0·2 | 0·6 | 0·0 |
| | Bristol ... | 67 | 56 | 49 | 5 | 0·1 | 2·6 |
| | Portland Bill ... | 60 | 57 | * | − | − | * |
| | Plymouth ... | 59 | 56 | 54 | 0·2 | Tr | 0·0 |
| | The Lizard ... | 56 | 56 | * | 0·6 | Tr | 0·0 |
| | Scilly (St. Mary's) | 61 | 56 | * | − | 0·2 | 0·0 |
| | Guernsey ... | | | | | | |
| 6 | Pembroke ... | 58 | 55 | * | Tr | 0·2 | 0·0 |
| 7 | Holyhead (Valley) | 60 | 55 | 55 | − | Tr | * |
| | Chester (Sealand) | 67 | 57 | 49 | − | 0·1 | 2·8 |
| 8 | Manchester ... | 63 | 55 | 51 | Tr | 0·4 | * |
| 10 | Spurn Head ... | 62 | 56 | * | − | − | 8·1 |
| | Catterick ... | 64 | 55 | 50 | − | − | 7·3 |
| | Tynemouth ... | 64 | 55 | 52 | − | 2 | * |
| 11 | St. Abbs Head | 58 | 48 | * | Tr | 7 | |
| | Leuchars ... | 58 | 48 | 49 | 0·3 | 0·2 | 1·0 |
| 12 | Renfrew (Abbots I.) | 56 | 48 | 44 | 5 | Tr | 0·5 |
| | Eskdalemuir ... | 53 | 49 | 47 | 3 | 10 | 0·0 |
| | Point of Ayre... | 61 | 53 | * | 0·3 | 3 | 2·7 |
| 13a | Tiree ... ... | 56 | 47 | * | − | 1 | 7·7 |
| 13b | Stornoway ... | 54 | 44 | * | 0·4 | 4 | 4·3 |
| 15 | Dalwhinnie ... | 56 | 40 | 29 | Tr | Tr | 4·6 |
| | Aberdeen † ... | 56 | 46 | 41 | 0·6 | 0·2 | 0·0 |
| | Wick ... | 55 | 42 | 34 | 0·1 | − | * |
| 16 | Sumburgh .. | 54 | 46 | 41 | 0·1 | 3 | 5·2 |
| 17 | Blacksod Point | 55 | 45 | * | 0·4 | Tr | * |
| 18 | Malin Head ... | 54 | 47 | | 1 | Tr | 3·3 |
| | Aldergrove ... | 53 | 53 | 42 | 7 | 2 | 0·0 |
| 19 | Birr Castle ... | 58 | 47 | 43 | 3 | 3 | 0·0 |
| 20 | Valentia Obsy. | 56 | 50 | 45 | 5 | 4 | 0·0 |
| | Roches Point | 58 | 53 | * | − | 1 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 4th October | | | | 18h. G.M.T. | | | 01h. G.M.T. 5th October | | | | 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 |
| 100 | 26 | 01954 | 23414 | 36 | 81855 | 57427 | 50 | 01853 | 19213 | 70 | 02866 | 50516 |
| 115 | | | | 84 | 02844 | 24525 | 74 | 81844 | 20386 | 82 | 88735 | 53688 |
| 203 | 84 | 02944 | 29426 | 54 | 02844 | 20426 | | | | 8- | 82846 | 16686 |
| 206 | 27 | 01863 | 24414 | 47 | 02861 | 23315 | 00 | 00890 | 22100 | 50 | 01864 | 53604 |
| 210 | 83 | 02945 | 25326 | 43 | 02963 | 26228 | 53 | 01864 | 16224 | 53 | 02963 | 15315 |
| 220 | 73 | 01954 | 24314 | 57 | 01854 | 23216 | | | | 80 | 25755 | 21685 |
| 230 | 10 | 01962 | 25323 | 47 | 02961 | 28227 | 5- | 02966 | 00026 | 5- | 61748 | 51688 |
| 245 | 57 | 02844 | 20367 | 52 | 02747 | 06468 | 52 | 51634 | 22158 | 53 | 01753 | 20453 |
| 260 | 57 | 22855 | 53466 | 52 | 05654 | 20325 | | | | 57 | 01861 | 20362 |
| 278 | 62 | 51637 | 22368 | 52 | 51847 | 30368 | 52 | 52734 | 00068 | 87 | 01941 | 20453 |
| 279 | 62 | 62645 | 54467 | 62 | 54426 | 18268 | | | | 61 | 21737 | 24567 |
| 285 | | | | | | | | | | | | |
| 288 | 27 | 01761 | 52413 | 14 | 01761 | 13313 | | | | 59 | 02746 | 18427 |
| 575 | 5- | 21948 | 28158 | 5- | 02868 | 04258 | 50 | 02855 | 16165 | 5- | 02868 | 22428 |
| 301 | 77 | 02766 | 24328 | 5- | 05656 | 22328 | 5- | 05548 | 20158 | 57 | 02746 | 24428 |
| 321 | 00 | 05690 | 16300 | 5- | 22658 | 21368 | 02 | 08490 | 17228 | 53 | 22753 | 23266 |
| 299 | 00 | 05690 | 20200 | 00 | 05580 | 20200 | | | | 57 | 05553 | 22314 |
| 292 | 04 | 05690 | 23113 | 51 | 05667 | 22118 | 5- | 05568 | 15128 | 57 | 05654 | 20227 |
| 310 | | | | | | | | | | | | |
| 614 | 52 | 05535 | 20247 | 52 | 05556 | 22128 | 5- | 41458 | 20148 | 5- | 61564 | 22168 |

| 13h. G.M.T. 4th October | | | | 18h. G.M.T. | | | 01h. G.M.T. 5th October | | | | 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- | 21628 | 20258 | 52 | 51625 | 18158 | 57 | 63745 | 18158 | 59 | 02744 | 20366 |
| 334 | | | | | | | | | | | | |
| 340 | 5- | 05645 | 17418 | 5- | 05667 | 22127 | 5- | 05558 | 16128 | 57 | 61857 | 18368 |
| 136 | 00 | 05590 | 19340 | 03 | 05630 | 18214 | 5- | 45208 | 20248 | 5- | 05644 | 20347 |
| 336 | | | | | | | | | | 57 | 21756 | 24358 |
| 350 | 00 | 00790 | 18240 | 53 | 05645 | 16216 | 5- | 57338 | 19258 | 5- | 05638 | 20358 |
| 368 | 53 | 05645 | 16148 | 5- | 05648 | 00028 | 5- | 05547 | 26127 | 5- | 21548 | 00068 |
| 379 | | | | 57 | 05644 | 16217 | 5- | 08418 | 24358 | -- | 46209 | 20249 |
| 390 | 5- | 43348 | 16248 | 00 | 47290 | 00040 | -- | 57209 | 16249 | 5- | 41535 | 20258 |
| 389 | 0 | 05642 | 15768 | 44 | 05661 | 00023 | 5- | 08438 | 20158 | 5- | 02838 | 21158 |
| 438 | -- | 46009 | 22149 | -- | 46009 | 17149 | -- | 48109 | 20249 | 5- | 05538 | 20248 |
| 430 | 5- | 05538 | 18248 | -- | 57109 | 14149 | 5- | 43338 | 20148 | 5- | 05638 | 14148 |
| 409 | 5- | 21408 | 22258 | 57 | 02857 | 10128 | 5- | 52618 | 00058 | 52 | 21627 | 00058 |

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 October

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 | Min. Time |
|---|---|---|---|---|---|
| Kew * ... ... | cfmow | cmo | cmo | 0·2 | 0·1 |
| Croydon .. | cfecm | cmobcmo | fodobo | 8-10h | 0-7h |
| Greenwich ... | cmo | cb | cbc | 4th | 5th |
| Camden Square | 0 | c | * | | |
| *Kensington ... | bcz | bcz | * | | |
| Hampstead ... | bc | omp | 0 | | |

| 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 ... | 66 | 57 | 57 | − | − | 1·1 | * | * |
| Croydon ... | 68 | 57 | 56 | − | Tr | 2·0 | * | * |
| Greenwich .. | 69 | 57 | 53 | − | Tr | 1·5 | 76 | 89 |
| Westminster .. | 67 | 56 | 55 | − | − | | 85 | 95 |
| Regents Park .. | 67 | 57 | 57 | − | − | | 69 | 88 |
| Camden Square | 66 | 56 | 55 | − | − | * | * | 90 |
| Kensington ... | 68 | 55 | 54 | − | Tr | | 83 | 91 |
| Hampstead .. | 65 | 55 | 54 | − | Tr | | * | 96 |

SECRET

Page 1 BRITISH SECTION

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

Tuesday 6th October 1942

No. 29538

## OBSERVATIONS at 13h. G.M.T. 5th October

| 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) | 14.4 | -2 | WSW | 1 | $z_o$ | 62 | 85 | 59 | 6 | 5 | 3 | · | 7-8 | 9+ | 2500 |
| | Croydon | 13.0 | -8 | WSW | 2 | c/+ | 63 | 85 | 59 | 6 | 5 | 7 | - | 4-6 | 9+ | 3500 |
| | S. Farnborough | 14.4 | +2 | WSW | 1 | $z_o$ | 65 | 85 | 59 | 6 | 5 | 7 | - | 7-8 | 9+ | 2000 |
| | Boscombe Down | 14.5 | 0 | - | 0 | e | 62 | 97 | 59 | 7 | 5 | - | - | 9+ | 10 | 1200 |
| | Thorney Island | 14.4 | -2 | NE | 1 | e | 63 | 85 | 60 | 7 | 5 | 7 | · | 4-6 | 10 | 1500 |
| | Lympne | 15.3 | -2 | SE | 1 | $z_o$ | 63 | 85 | 59 | 6 | - | 7 | - | 0 | 9 | - |
| | Manston | 14.4 | -2 | S | 3 | $z_o$ | 66 | 75 | 59 | 6 | 2 | 8 | 6 | Tr | 9 | 1500 |
| 2 | Shoeburyness | 15.6 | -6 | SSW | 2 | c | 68 | 85 | 58 | 6 | 5 | 7 | - | 7-8 | 9 | 2500 |
| | Felixstowe | 14.2 | -2 | S'E | 2 | c-bc/+ | 61 | 85 | 57 | 6 | 5 | 7 | 1 | 4-6 | 7-8 | 4000 |
| | Gorleston | 14.5 | +8 | SW'W | 3 | $r_or_o$ | 61 | 85 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Mildenhall | 14.1 | +2 | WSW | 3 | $z_o$ | 63 | 85 | 58 | 6 | 5 | - | - | 9+ | 9+ | 2000 |
| | Cranwell | 13.4 | +10 | W'N | 4 | $z_o$ | 64 | 75 | 55 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| 3 | Birmingham | 14.5 | +4 | WNW | 3 | c | 60 | 85 | 56 | 7 | 8 | - | · | 9+ | 9+ | 1500 |
| | Upper Heyford | 13.8 | 0 | SW | 3 | $ir_o$ | 60 | 85 | 57 | 6 | 5 | - | - | 10 | 10 | 1000 |
| 4 | Ross-on-Wye | 14.5 | +6 | NW'N | 2 | c | 62 | 85 | 57 | 8 | 5 | - | · | 10 | 10 | 2000 |
| 5 | Hartland Point | 14.6 | +4 | NE | 2 | $id_o$ | 67 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Bristol | 14.0 | +2 | NW | 2 | $ir_o$ | 60 | 85 | 57 | 6 | 5 | - | - | 9+ | 9+ | 800 |
| | Portland Bill | 13.2 | -4 | ENE | 2 | ir | 61 | 92 | 59 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 13.5 | -6 | N | 2 | c | 62 | 85 | 59 | 7 | 5 | 7 | - | 7-8 | 10 | 3000 |
| | The Lizard | 12.4 | -6 | N | 2 | c/f | 59 | 97 | 59 | 7 | 8 | 2 | - | 7-8 | 9+ | 1000 |
| | Scilly (St. Mary's) | 14.3 | +6 | N'E | 4 | c | 59 | 92 | 57 | 8 | 8 | 8 | - | 7-8 | 10 | 500 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 16.7 | +4 | N | 4 | c | 58 | 92 | 56 | 8 | 5 | - | · | 10 | 10 | 2500 |
| 7 | Holyhead (Valley) | 16.0 | +16 | WNW | 3 | bc | 58 | 65 | 47 | 8 | 1 | 4 | - | Tr | 4-6 | 3000 |
| | Chester (Sealand) | 14.6 | +14 | NW | 3 | c-bc | 58 | 65 | 44 | 8 | - | 2 | 6 | 0 | 7-8 | - |
| 8 | Manchester | 14.5 | +16 | W | 4 | c-bc | 55 | 75 | 47 | 7 | 1 | 3 | 3 | 4-6 | 7-8 | 2500 |
| 10 | Spurn Head | 13.2 | +14 | WNW | 4 | $z_o$ | 61 | 85 | 55 | 6 | 7 | - | - | 9+ | 9+ | 1800 |
| | Catterick | 12.6 | +16 | W | 4 | bc | 60 | 55 | 46 | 9 | 7 | 7 | · | 4-6 | 4-6 | 2500 |
| | Tynemouth | 12.5 | +16 | W | 5 | bc | 58 | 65 | 46 | 6 | 2 | - | - | 4-6 | 4-6 | 2800 |
| 11 | St. Abbs Head | 07.4 | +24 | WNW | 5 | bc | 54 | 85 | 48 | 8 | 1 | 0 | · | 4-6 | 4-6 | 3500 |
| | Leuchars | 05.8 | +20 | W | 6 | b-bc | 56 | 65 | 46 | 8 | 1 | 6 | - | 2-3 | 2-3 | 3500 |
| 12 | Renfrew (Abbots I.) | 09.7 | +16 | W | 6 | b-bc | 55 | 45 | 36 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| | Eskdalemuir | 09.5 | +30 | WSW | 5 | b-bc | 53 | 55 | 37 | 8 | 7 | - | - | 2-3 | 2-3 | 2500 |
| | Point of Ayre | 13.6 | +16 | NW'W | 5 | bc | 57 | 75 | 47 | 8 | 1 | - | 5 | Tr | 1 | 3000 |
| 13A | Tiree | 10.1 | +42 | NW'W | 7 | bc/pr | 51 | 75 | 41 | 8 | 8 | - | · | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 01.9 | +42 | WSW | 7 | c/pr | 48 | 85 | 44 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| 15 | Dalwhinnie | 06.8 | +26 | WSW | 5 | bc | 46 | 65 | 35 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| | Aberdeen | 05.3 | +40 | W'N | 4 | c-bc/jp | 53 | 55 | 35 | 9 | 8 | 6 | - | 7-8 | 7-8 | 2500 |
| | Wick | 00.7 | +38 | W'S | 7 | bc | 50 | 65 | 38 | 9 | 8 | - | - | 4-6 | 4-6 | 2000 |
| 16 | Sumburgh | 93.7 | +12 | WSW | 7 | c/+ | 47 | 85 | 42 | 8 | 9 | 6 | 3 | 7-8 | 9 | 1500 |
| 17 | Blacksod Point | 17.3 | +22 | NW | 5 | b-bc | 55 | 65 | 44 | 8 | 8 | - | · | 2-3 | 2-3 | 2500 |
| 18 | Malin Head | 13.2 | +34 | WNW | 8 | bc | 54 | 65 | 43 | 8 | 9 | - | · | 4-6 | 4-6 | 1500 |
| | Aldergrove | 14.4 | +20 | W | 4 | b-bc | 55 | 55 | 39 | 8 | 1 | - | · | 2-3 | 2-3 | 2500 |
| 19 | *Birr Castle | 16.6 | +18 | WNW | 2 | b-bc | 56 | 75 | 48 | 8 | 2 | - | - | 2-3 | 2-3 | 1500 |
| 20 | Valentia Obsy. | 18.3 | +14 | N'W | 4 | bc | 57 | 75 | 49 | 8 | 1 | 4 | - | 2-3 | 4-6 | 2500 |
| | Roches Point | 16.8 | +10 | N | 4 | bc | 59 | 75 | 51 | 8 | 5 | - | 5 | 4-6 | 4-6 | 4000 |

## OBSERVATIONS at 18h. G.M.T. 5th October

| 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) | 16.1 | +14 | NNW | 2 | $r_or_o$ | 62 | 85 | 58 | 5 | 5 | 3 | - | 9 | 10 | 2500 | 1 | · |
| Croydon | 16.3 | +10 | - | 0 | cf+ | 62 | 92 | 60 | 3 | - | 7 | - | 0 | 10 | - | 1 | · |
| S. Farnborough | 15.7 | +14 | NE'N | 1 | RR | 61 | 85 | 58 | 5 | 5 | 7 | - | 7-8 | 10 | 1800 | 1 | · |
| Boscombe Down | 15.9 | +14 | N | 1 | c | 59 | 97 | 59 | 6 | 6 | 2 | - | 9+ | 10 | 800 | 1 | · |
| Thorney Island | 14.9 | +8 | SE | 1 | $z_o$ | 62 | 92 | 60 | 5 | 5 | 7 | 8 | 7-8 | 9+ | 5700 | 1 | · |
| Lympne | 16.0 | +14 | - | 0 | $z_o$ | 59 | 97 | 59 | 6 | - | 8 | - | 0 | 7-8 | - | 1 | § |
| Manston | 16.2 | +30 | - | 0 | $z_o$ | 61 | 92 | 59 | 5 | 5 | - | - | 9+ | 9+ | 3200 | 1 | · |
| Shoeburyness | | | | | | | | | | | | | | | | | · |
| Felixstowe | 15.9 | +14 | N'W | 1 | c/+ | 62 | 92 | 59 | 4 | 5 | 2 | - | 9 | 10 | 4000 | 1 | 1 |
| Gorleston | 15.9 | +12 | NW'N | 1 | $r_or_o$ | 62 | 92 | 59 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | 2 |
| Mildenhall | 15.9 | +12 | NNW | 1 | c/+ | 61 | 92 | 59 | 5 | 5 | 7 | - | 2-3 | 10 | 5000 | 1 | · |
| Cranwell | 16.2 | +16 | NW | 2 | $z_o$ | 55 | 75 | 47 | 6 | - | 7 | - | 0 | 7-8 | - | 0 | · |
| Birmingham | 17.8 | +20 | NNW | 3 | c | 55 | 75 | 47 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | · |
| Upper Heyford | 16.3 | +14 | N'W | 3 | $r_or_o$ | 57 | 92 | 55 | 4 | 5 | - | - | 10 | 10 | 4500 | 1 | · |
| Ross-on-Wye | 16.6 | +16 | NE | 2 | c | 57 | 85 | 52 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | · |
| Hartland Point | 15.6 | +12 | NE | 4 | ir | 57 | 97 | 56 | 8 | 5 | 2 | 8 | 1 | 9+ | 1000 | 1 | 3 |
| Bristol | 16.4 | +12 | - | 0 | +f | 58 | 97 | 58 | 3 | - | 2 | - | 10 | 10 | 800 | 1 | · |
| Portland Bill | 15.3 | +6 | NE | 2 | o | 60 | 92 | 58 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 |
| Plymouth | 15.2 | +14 | NNE | 1 | e/+ | 61 | 92 | 58 | 7 | 5 | 7 | - | 7-8 | 9+ | 4000 | 1 | 2 |
| The Lizard | 13.2 | +6 | NE | 3 | c-bc/pr | 59 | 92 | 57 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| Scilly (St. Mary's) | 16.2 | +16 | N'E | 4 | c | 56 | 92 | 54 | 8 | 8 | - | - | 10 | 10 | 800 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 18.0 | +14 | N | 3 | bc | 55 | 85 | 49 | 8 | 5 | 4 | - | 4-6 | 4-6 | 3500 | 1 | 2 |
| Holyhead (Valley) | 18.7 | +22 | NW'W | 2 | bc | 53 | 75 | 48 | 7 | - | 4 | 2 | 0 | 4-6 | - | 0 | 2 |
| Chester (Sealand) | 17.4 | +18 | NNW | 2 | c | 52 | 85 | 47 | 8 | 8 | 6 | 6 | 4-6 | 9 | 3000 | 0 | · |
| Manchester | 18.3 | +20 | W | 4 | c-bc | 49 | 85 | 45 | 6 | 4 | - | 2 | 1 | 7-8 | 4000 | 1 | · |
| Spurn Head | 16.0 | +12 | NW'W | 4 | c-bc | 57 | 75 | 49 | 7 | 5 | 4 | 1 | 2-3 | 7-8 | 2500 | 0 | 3 |
| Catterick | 16.9 | +22 | NW | 2 | c-bc | 51 | 65 | 41 | 8 | - | - | 4 | 0 | 7-8 | - | 0 | · |
| Tynemouth | 15.6 | +16 | W | 3 | bc | 53 | 65 | 42 | 6 | 2 | 3 | - | 2-3 | 4-6 | 2800 | 1 | 2 |
| St. Abbs Head | 12.7 | +28 | WSW | 3 | bc | 49 | 65 | 38 | 8 | 5 | 4 | - | 4-6 | 4-6 | 3500 | 0 | 3 |
| Leuchars | 12.5 | +38 | W | 4 | c-bc | 51 | 62 | 38 | 8 | 4 | 4 | 2 | 2-3 | 7-8 | 2500 | 0 | · |
| Renfrew (Abbots I.) | 14.2 | +28 | WSW | 4 | $ir_o$ | 49 | 75 | 39 | 8 | 6 | 4 | 2 | 4-6 | 9 | 2000 | 1 | · |
| Eskdalemuir | 15.8 | +30 | WSW | 2 | c-bc | 47 | 75 | 38 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | · |
| Point of Ayre | 17.6 | +24 | N'W | 5 | bc | 54 | 65 | 43 | 8 | 2 | - | 5 | 2-3 | 4-6 | 3000 | 0 | 4 |
| Tiree | 14.9 | +28 | NW | 6 | bc/pr | 48 | 75 | 43 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | 6 |
| Stornoway | 08.4 | +18 | W | 5 | c-bc/pr | 45 | 92 | 43 | 8 | 8 | 7 | 4 | 4-6 | 7-8 | 2000 | 1 | 3 |
| Dalwhinnie | 11.9 | +28 | W | 4 | c-bc | 42 | 85 | 37 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | · |
| Aberdeen | 11.0 | +20 | SSW | 2 | c-bc | 50 | 65 | 39 | 7 | 5 | 9 | - | 7-8 | 7-8 | 2000 | 1 | 2 |
| Wick | 06.4 | +44 | W | 6 | bc/pr | 45 | 65 | 34 | 8 | 8 | - | 1 | 2-3 | 4-6 | 2500 | 0 | · |
| Sumburgh | 97.7 | +38 | W | 9 | c-bc/pr | 49 | 75 | 45 | 7 | 3 | - | - | 7-8 | 7-8 | 1500 | 1 | 6 |
| Blacksod Point | 20.8 | +18 | NNW | 3 | bc | 50 | 75 | 43 | 8 | 8 | - | 6 | 2-3 | 4-6 | 4000 | 1 | 2 |
| Malin Head | 17.1 | +24 | W'N | 5 | bc | 50 | 65 | 39 | 8 | 9 | - | - | 4-6 | 4-6 | 2500 | 1 | 5 |
| Aldergrove | 18.3 | +26 | W | 4 | b-bc | 50 | 85 | 46 | 7 | 4 | - | - | 2-3 | 2-3 | 2500 | 1 | · |
| *Birr Castle | 19.9 | +18 | N | 1 | bc | 51 | 75 | 44 | 8 | 1 | 1 | - | 2-3 | 4-6 | 2500 | 1 | · |
| Valentia Obsy. | 21.3 | +20 | NNE | 3 | b | 53 | 65 | 42 | 8 | 1 | 3 | - | Tr | 1 | 2500 | 1 | 2 |
| Roches Point | 19.0 | +14 | N | 4 | bc | 56 | 75 | 48 | 8 | 5 | - | 5 | 1 | 4-6 | 2500 | 1 | 3 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 5th (39) | Weather 13h.—18h. 5th (40) | Weather 18h. 5th to 1h. 6th (41) | Weather 1h.—7h. 6th (42) |
|---|---|---|---|---|
| London (Kew) | $cr_orcm_o$ | $cm_ocr_om_o$ | $cr_orcm_o$ | $cz_o$ |
| Croydon | $omcm_ocd_o$ | $cm_oir_ocm$ | $cf ir_oof$ | $omcm_o$ |
| S. Farnborough | $cr_om_o$ | eirbrrm | $cRm_ocm_o$ | $cm_oz_o$ |
| Boscombe Down | $crrm_oc$ | $crrcm_o$ | $crrcm_o$ | $cirom_oc$ |
| Thorney Island | $ciririm_oc$ | $cm_o$ | $cbcLcm_o$ | $cm_oir_oc$ |
| Lympne | $Fir_ocm_o$ | $cr_obcm_o$ | $bcm_ocm_ow$ | $cm_owcm_o$ |
| Manston | $pm_od_od_oc$ | $cz_oir_om_o$ | $cm_oir_obm_o$ | $omcm_o$ |
| Shoeburyness | $omircm_o$ | | $cmrr_o$ | $cmcm_oc$ |
| Felixstowe | $om_oir_ocm_o$ | $cm_oir_omcm$ | $cm_ocirbcm$ | $bcm_obm_oc$ |
| Gorleston | $\cdot pr_ocr_or$ | $bobr_obr$ | $ir_o$ | $oir_or_oc$ |
| Mildenhall | $cm_oir_ocm_o$ | $ir_om_ocm_o$ | $crm_ocm_o$ | $cm_ocbcm_o$ |
| Cranwell | $cir_ocm_o$ | $cm_o$ | $cbcm_o$ | $bbcm_o$ |
| Birmingham | omc | c | bc | bm |
| Upper Heyford | $om_ocid_o$ | $eir_or_om$ | $cr_or_om$ | $cm_ocz_o$ |
| Ross-on-Wye | $r_oom_oc$ | c | c | bcbw |
| Hartland Point | $id_oro$ | oidcir | irrc | cbcc |
| Bristol | $cm_oir$ | cRRmf | $cm_orrr_o$ | $cm_oid_om_o$ |
| Portland Bill | oir | o | co | o |
| Plymouth | $crrm_oid_oc$ | $id_oir_oc$ | $cm_o$ | $crcm_o$ |
| The Lizard | FFec | cprc | cbc | bcco |
| Scilly (St. Mary's) | crc | $cp_oc$ | cbc | bbcc |
| Guernsey | | | | |
| Pembroke | cs | cbc | cbc | bbc |
| Holyhead (Valley) | bc | bc | b | $bwf_gb$ |
| Chester (Sealand) | $cir_od_o$ | c | $bcm_o$ | $bcm_ob$ |
| Manchester | $cr_or_om_o$ | bcc | $bcm_obm$ | bmwx |
| Spurn Head | c | c | bc | $cz_o$ |
| Catterick | cbcy | bcyc | cbcb | bwbc |
| Tynemouth | cbc | bc | bc | bbc |
| St. Abbs Head | cbbc | bc | bcb | bbc |
| Leuchars | bcb | bbcc | cbcbbcb | bbccw |
| Renfrew (Abbots I.) | $cir_obcy$ | cy | bcb | $bpr_obcc$ |
| Eskdalemuir | bcy | bcybc | bc | bcc |
| Point of Ayre | cbcb | bbc | bcb | bbcc |
| Tiree | bcprq | bcprq | cprbc | $bcpr_o$ |
| Stornoway | cphrq | cprPRq | bccpr | cpr |
| Dalwhinnie | cprbc | bcprc | | cbcprc |
| Aberdeen | $bcir_oyjp$ | cbcc | $cir_o$ | bbc |
| Wick | cbc | $bcpr_obc$ | bc | bcc |
| Sumburgh | cprc | cpr | bcprbc | bcc |
| Blacksod Point | bc | bc | b | bc |
| Malin Head | pr | bc | r | pr |
| Aldergrove | bcby | by | b | bcbbc |
| *Birr Castle | bc | bc | | c |
| Valentia Obsy. | pr | bc | b | bc |
| Roches Point | bc | bc | b | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 6th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England | Light or moderate Northeast wind decreasing; cloudy at first; fine later; cool; local night frost. |
| 2 E. England; 3 E. Midlands; 4 W. Midlands | Light variable winds; fine; local morning fog; cool; local night frost. |
| 5 S.W. England | As 1. |
| 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England | Light variable or Southwest wind; fine; local morning fog; cool; local night frost. |
| 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man | Light or moderate Southwest wind; mainly fair; cool. |
| 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Moderate Southwest wind, fresh locally on coasts; cloudy; occasional rain; average temperature. |
| 16 Orkneys and Shetlands | As 13A-15. |
| 17 N. W. Ireland; 18 N. E. Ireland | As 11-12. |
| 19 S. E. Ireland; 20 S. W. Ireland | As 6-10. |

### GENERAL INFERENCE

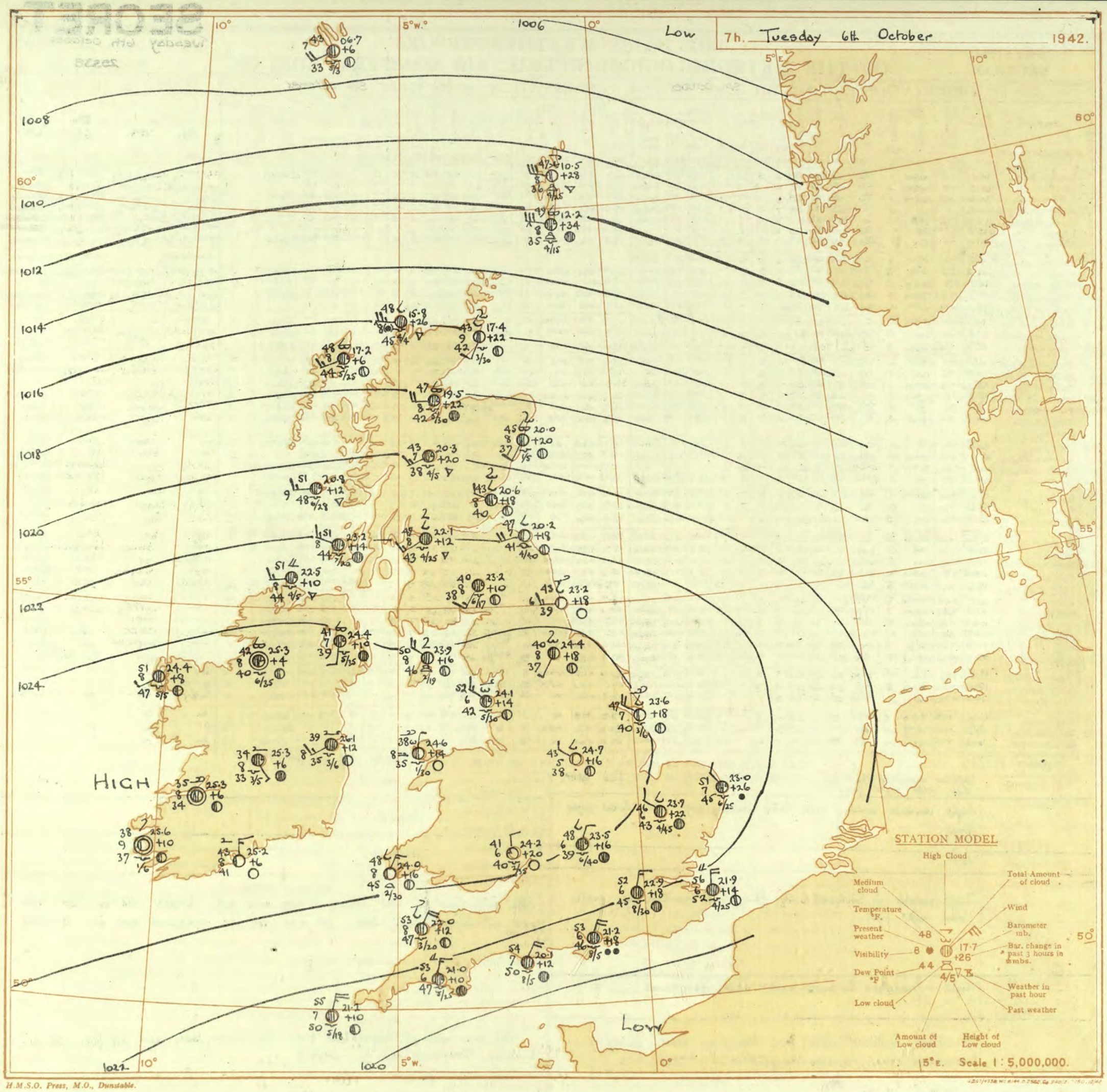
An anticyclone off west Ireland is spreading east. Weather will be fair over most of England and Wales, but there will be occasional rain in Scotland.

### FURTHER OUTLOOK

Fair over most of England and Wales for two or three days but fog night and morning. Occasional rain in Scotland.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

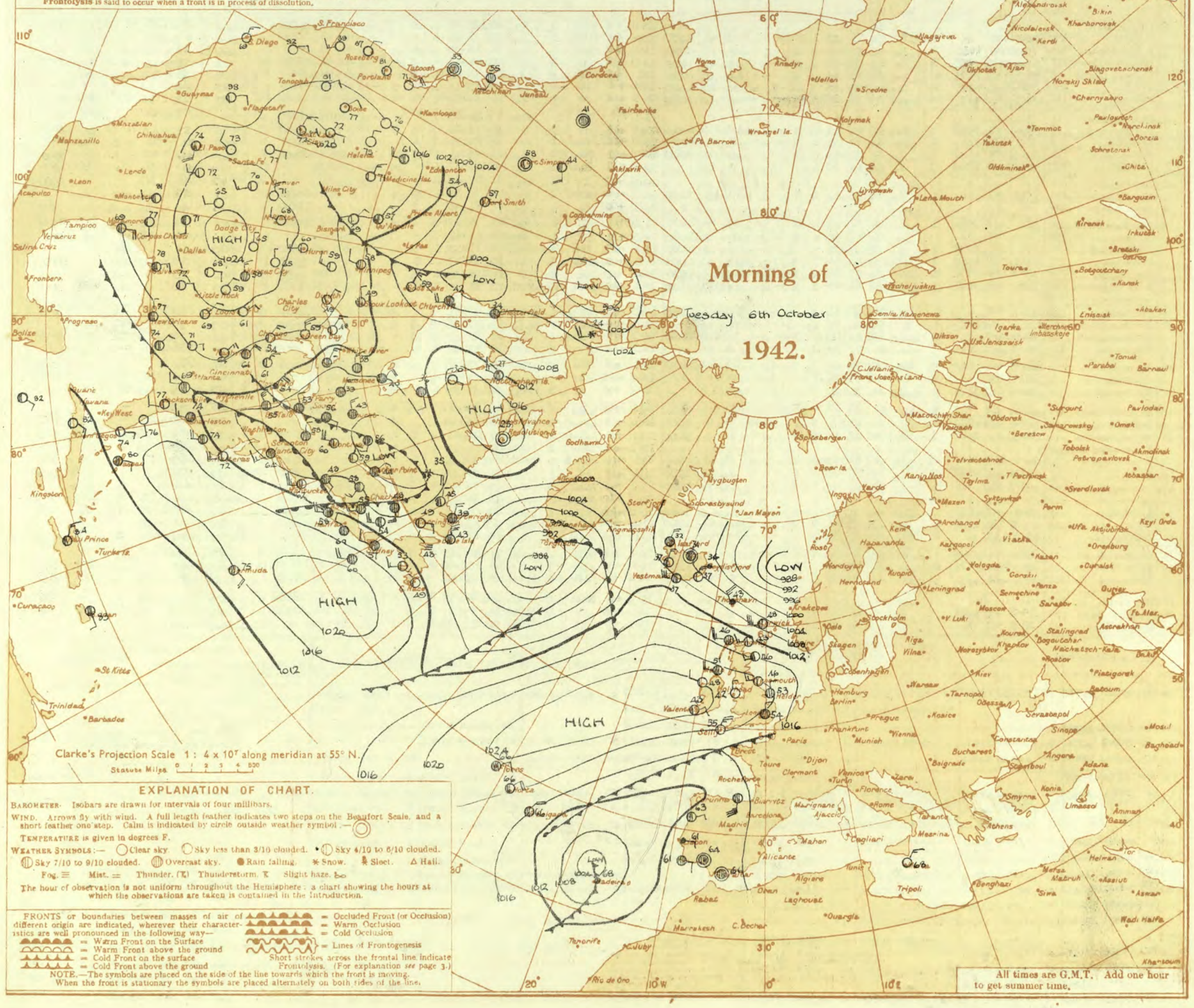
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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 shows 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 one hour to get summer time.

BRITISH SECTION

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

Tuesday 6th October 1942

No. 29538

## OBSERVATIONS at 1 hr. G.M.T. 6th October

| 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 | * | * | * | * | * | 54 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 20.8 | +22 | N | 2 | cf | 54 | 85 | 49 | 3 | S | - | - | 7-8 | 10 | 800 |
| | S. Farnborough | 226 | 20.0 | +10 | NNE | 3 | Zo | 55 | 85 | 49 | 5 | S | - | - | 10 | 10 | 1500 |
| | Boscombe Down | 417 | 19.9 | +10 | NNE | 3 | Zo | 52 | 85 | 48 | 6 | S | - | - | 10 | 10 | 1800 |
| | Thorney Island | 10 | 18.1 | +12 | NEN | 4 | Zo | 58 | 85 | 54 | 6 | S | - | - | 4-6 | 10 | 1000 |
| | Lympne | 283 | 18.1 | +6 | NNE | 3 | Zo | 60 | 97 | 59 | S | S | 2 | - | 9+ | 10 | 2500 |
| | Manston | 154 | 18.4 | +10 | N'E | 4 | m | 58 | 92 | 55 | 4 | S | - | - | 10 | 10 | 1000 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 19.4 | +18 | NNW | 2 | Zo | 55 | 92 | 52 | 5 | S | - | - | 2-3 | 2-3 | 4000 |
| | Gorleston | 5 | 19.2 | +6 | N | 2 | iro | 55 | 92 | 50 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Mildenhall | 15 | 20.2 | +8 | NNW | 2 | Zo | 51 | 92 | 49 | 6 | S | - | - | 10 | 10 | 4000 |
| | Cranwell | 203 | 21.1 | +10 | WNW | 2 | Zo | 45 | 85 | 40 | 6 | - | 3 | - | 0 | 2-3 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 20.8 | +12 | N | 2 | Zo | 50 | 85 | 46 | 6 | S | - | - | 10 | 10 | 2500 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 19.6 | +12 | NE | 3 | c | 55 | 92 | 53 | 8 | S | 2 | - | 7-8 | 9+ | 2500 |
| | Bristol | 209 | 21.0 | +6 | NE | 1 | Zo | 51 | 92 | 49 | 5 | S | - | - | 10 | 10 | 3000 |
| | Portland Bill | 32 | 17.1 | +8 | ENE | 4 | o | 59 | 85 | 55 | 7 | S | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | 18.2 | +10 | NEN | 3 | ido | 57 | 85 | 54 | 7 | 5 | 7 | - | 7-8 | 10 | 2000 |
| | The Lizard | 240 | 17.8 | +4 | N'E | 5 | bc | 54 | 85 | 50 | 8 | 8 | - | - | 4-6 | 4-6 | 1500 |
| | Scilly (St. Mary's) | 163 | 20.1 | +10 | NNE | 5 | b-bc | 55 | 85 | 49 | 8 | S | - | - | 2-3 | 2-3 | 1500 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 22.1 | +10 | N | 4 | bc | 51 | 85 | 46 | 8 | S | 4 | - | 4-6 | 4-6 | 3500 |
| 7 | Holyhead (Valley) | 32 | 22.6 | +16 | N'E | 1 | b | 42 | 85 | 38 | 8 | - | - | - | 0 | 0 | - |
| | Chester (Sealand) | 16 | 22.0 | +14 | — | 0 | b-bc | 42 | 92 | 40 | 6 | S | - | - | 2-3 | 2-3 | 4000 |
| 8 | Manchester | 235 | 21.4 | +10 | S'W | 1 | m | 41 | 97 | 40 | 4 | - | - | - | 0 | 0 | - |
| 10 | Spurn Head | 29 | 20.5 | +14 | NW | 4 | bc | 50 | 75 | 41 | 7 | 7 | 4 | - | 2-3 | 4-6 | 2500 |
| | Catterick | 175 | 21.3 | +10 | - | 0 | b | 42 | 85 | 38 | 7 | - | 3 | - | 0 | 1 | - |
| | Tynemouth | 108 | 20.4 | +16 | W'S | 3 | b-bc | 46 | 85 | 40 | 7 | - | 4 | - | 0 | 2-3 | - |
| 11 | St. Abbs Head | 280 | 17.3 | +18 | W | 4 | bc | 47 | 65 | 37 | 7 | S | - | - | 2-3 | 4-6 | 4000 |
| | Leuchars | 36 | 17.4 | +20 | WSW | 3 | b | 42 | 85 | 38 | 8 | S | - | - | Tr | Tr | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 19.3 | +6 | SW | 2 | b | 46 | 85 | 41 | 8 | 4 | - | - | 1 | 1 | 3500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 21.6 | +20 | NW | 5 | b | 50 | 85 | 46 | 8 | S | - | - | Tr | Tr | 2500 |
| 13A | Tiree | 22 | 19.5 | +16 | WNW | 5 | bc | 49 | 75 | 40 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 80 | 14.7 | +30 | W | 5 | c/pr | 46 | 85 | 42 | 7 | 8 | 7 | - | 4-6 | 9+ | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 15.9 | +18 | W'S | 2 | bc | 46 | 75 | 36 | 8 | S | - | - | 4-6 | 4-6 | 3000 |
| | Wick | 114 | 12.8 | +30 | WSW | 3 | bc | 43 | 85 | 38 | 7 | S | - | - | 4-6 | 4-6 | 2500 |
| 16 | Sumburgh | 19 | 05.8 | +38 | W | 9 | bc | 49 | 55 | 35 | 7 | 2 | - | - | 4-6 | 4-6 | 1500 |
| 17 | Blacksod Point | 18 | 23.6 | +4 | WNW | 1 | b | 48 | 85 | 44 | 8 | S | - | - | 1 | 1 | 4000 |
| 18 | Malin Head | 84 | 20.9 | +10 | W'N | 4 | c | 51 | 65 | 40 | 8 | 9 | 2 | - | 4-6 | 9 | 2500 |
| | Aldergrove | 268 | 22.6 | +14 | W'S | 1 | b | 43 | 85 | 39 | 7 | S | - | - | Tr | Tr | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 24.5 | +2 | NE'E | 2 | b | 43 | 85 | 39 | 8 | - | - | 1 | 0 | Tr | - |
| | Roches Point | 22 | 23.9 | +12 | N | 3 | b | 47 | 85 | 39 | 8 | - | - | - | 0 | 0 | - |

## OBSERVATIONS at 7 hr. G.M.T. 6th October

| 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) | 23.1 | +14 | NNE | 3 | Zo | 52 | 65 | 41 | 6 | S | 7 | - | 9 | 10 | 2500 | 1 | * |
| Croydon | 22.9 | +18 | NNE | 3 | Zo | 52 | 75 | 45 | 6 | S | - | - | 10 | 10 | 3000 | 1 | * |
| S. Farnborough | 23.3 | +18 | NNE | 3 | Zo | 51 | 65 | 40 | 6 | S | - | - | 10 | 10 | 3000 | 0 | * |
| Boscombe Down | 23.0 | +18 | NE | 3 | | 50 | 85 | 47 | 7 | S | - | - | 10 | 10 | 5000 | 0 | * |
| Thorney Island | 21.2 | +18 | NE | 4 | °c/r | 53 | 75 | 46 | 6 | S | - | - | 10 | 10 | 2500 | 0 | * |
| Lympne | 20.4 | +4 | N | 4 | Zo | 54 | 85 | 51 | 6 | S | 2 | - | 9+ | 10 | 2500 | 1 | § 3 |
| Manston | 21.9 | +14 | N | 4 | Zo | 56 | 85 | 52 | 6 | S | 2 | - | 4-6 | 10 | 2500 | 1 | * |
| Shoeburyness | 22.2 | +14 | N'E | 3 | c | 52 | 85 | 47 | 7 | S | - | - | 10 | 10 | 2800 | 1 | * |
| Felixstowe | 22.8 | +18 | N | 3 | c | 52 | 75 | 46 | 7 | S | 7 | - | 9 | 10 | 3500 | 1 | 2 |
| Gorleston | 23.0 | +26 | NNW | 2 | c | 61 | 85 | 55 | 7 | S | - | - | 9 | 9 | 2500 | 1 | 2 |
| Mildenhall | 23.7 | +22 | NW | 2 | Zo | 46 | 85 | 43 | 6 | S | 4 | - | 4-6 | 7-8 | 4500 | 1 | * |
| Cranwell | 24.3 | +22 | WNW | 2 | Zo | 42 | 85 | 37 | 6 | - | 4 | 4 | 0 | 4-6 | - | 0 | * |
| Birmingham | 24.8 | +22 | N | 2 | m | 42 | 92 | 40 | 4 | - | - | 1 | 0 | Tr | - | 1 | |
| Upper Heyford | 23.5 | +16 | NEN | 2 | Zo | 48 | 75 | 39 | 6 | S | 4 | - | 9 | 9 | 4000 | 1 | * |
| Ross-on-Wye | 24.2 | +20 | N | 2 | Zo | 41 | 92 | 40 | 6 | S | - | 1 | 1 | 1 | 3500 | 1 | * |
| Hartland Point | 22.0 | +12 | NE | 4 | c-bc | 53 | 75 | 47 | 8 | S | 4 | 1 | 2-3 | 7-8 | 2000 | 1 | 3 |
| Bristol | 24.5 | +22 | NE | 2 | Zo | 49 | 85 | 46 | 5 | - | 7 | - | 0 | 10 | - | 1 | * |
| Portland Bill | 20.1 | +12 | NE | 4 | O | 54 | 85 | 50 | 7 | S | - | - | 10 | 10 | 2500 | 1 | |
| Plymouth | 21.0 | +10 | NNE | 3 | Zo | 53 | 75 | 47 | 6 | S | 2 | - | 7-8 | 9 | 2500 | 1 | 2 |
| The Lizard | 20.4 | +0 | NE | 4 | o | 54 | 85 | 50 | 8 | S | - | - | 10 | 10 | 1000 | 0 | |
| Scilly (St. Mary's) | 21.2 | +10 | NNE | 5 | c-bc | 55 | 85 | 50 | 7 | S | - | - | 7-8 | 7-8 | 1800 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 24.0 | +16 | NE'N | 3 | b-bc | 48 | 92 | 45 | 8 | 1 | 4 | - | 1 | 2-3 | 3000 | 0 | 2 |
| Holyhead (Valley) | 24.6 | +14 | N'E | 1 | bc fg | 38 | 92 | 35 | 8 | S | 3 | 2 | Tr | 4-6 | 3000 | 0 | 1 |
| Chester (Sealand) | 24.2 | +14 | NW'W | 1 | Zo | 39 | 92 | 37 | 6 | 1 | - | 6 | 2-3 | 7-8 | 3500 | 0 | * |
| Manchester | 24.3 | +14 | E | 2 | m | 37 | 97 | 35 | 4 | - | - | 1 | 0 | 2-3 | - | 0 | * |
| Spurn Head | 23.6 | +18 | NW | 4 | Zo | 47 | 75 | 40 | 7 | S | 4 | 2 | 2-3 | 4-6 | 4000 | 0 | 3 |
| Catterick | 24.4 | +18 | SW | 1 | c-bc | 40 | 92 | 37 | 8 | - | - | 9 | 0 | 7-8 | - | 0 | * |
| Tynemouth | 23.2 | +18 | W | 3 | b-bc | 43 | 85 | 39 | 6 | - | 4 | 1 | 0 | 2-3 | - | 1 | 2 |
| St. Abbs Head | 20.2 | +18 | WSW | 4 | bc | 47 | 75 | 41 | 7 | 4 | 4 | | 4-6 | 4-6 | 4000 | 0 | 4 |
| Leuchars | 20.6 | +18 | WNW | 2 | c | 43 | 85 | 40 | 8 | - | 4 | 9 | 0 | 9+ | - | 1 | * |
| Renfrew (Abbots I.) | 22.1 | +12 | WSW | 3 | c | 47 | 85 | 43 | 8 | S | 4 | 6 | 4-6 | 9 | 2500 | 1 | * |
| Eskdalemuir | 23.2 | +10 | SSW | 3 | c | 40 | 92 | 38 | 8 | S | - | - | 9 | 9 | 1700 | 1 | * |
| Point of Ayre | 23.9 | +16 | NWN | 4 | c-bc | 50 | 85 | 46 | 8 | 2 | - | 6 | 1 | 7-8 | 1900 | 0 | 4 |
| Tiree | 20.8 | +12 | W | 3 | c | 51 | 85 | 48 | 9 | S | - | - | 9 | 9 | 2800 | 0 | 4 |
| Stornoway | 17.2 | +6 | WSW | 3 | c | 48 | 85 | 44 | 8 | S | 7 | - | 7-8 | 9+ | 2500 | 1 | 2 |
| Dalwhinnie | 20.3 | +20 | WSW | 3 | c | 43 | 85 | 38 | 7 | S | - | 9 | 4-6 | 9 | 2500 | 1 | * |
| Aberdeen † | 20.0 | +20 | SSW | 2 | c-bc | 45 | 75 | 37 | 8 | S | 7 | 9 | Tr | 7-8 | 2500 | 1 | |
| Wick | 17.4 | +22 | SSW | 2 | c-bc | 43 | 85 | 39 | 9 | S | 4 | 9 | 2-3 | 7-8 | 3000 | 1 | * |
| Sumburgh | 12.2 | +34 | W'N | 6 | c | 49 | 55 | 35 | 8 | 8 | 7 | - | 4-6 | 9 | 1500 | 1 | 6 |
| Blacksod Point | 24.4 | +8 | WSW | 1 | c-bc | 51 | 85 | 47 | 8 | S | - | - | 7-8 | 7-8 | 2500 | 0 | 1 |
| Malin Head | 22.5 | +10 | W | 3 | c | 51 | 75 | 40 | 8 | S | 2 | - | 4-6 | 9+ | 2500 | 1 | 3 |
| Aldergrove | 24.4 | +10 | S'E | 1 | c | 41 | 92 | 39 | 7 | S | 7 | 1 | 7-8 | 9+ | 3500 | 1 | * |
| Birr Castle | 25.3 | +6 | SSE | 1 | c | 34 | 97 | 33 | 8 | S | - | 5 | 2-3 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 25.6 | +10 | - | 0 | b-bc | 38 | 97 | 37 | 9 | S | - | 4 | Tr | 2-3 | 4000 | 1 | 2 |
| Roches Point | 25.2 | +6 | N | 3 | b-bc | 43 | 92 | 41 | 8 | - | - | 5 | 0 | 2-3 | - | 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) | Night 18h–7h mm. (37) | Sunshine 5th. Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 65 | 51 | 33 | 1 | 1 | 0.1 |
| Croydon | 66 | 62 | 50 | 1 | 1 | 1.1 |
| S. Farnborough | 66 | 50 | 49 | 2 | 0.1 | 0.4 |
| Boscombe Down | 62 | 50 | 49 | 9 | 2 | 0.0 |
| Thorney Island | 67 | 52 | 50 | 0.5 | Tr | * |
| Lympne | 67 | 54 | 54 | 0.2 | - | 1.6 |
| Manston | 67 | 55 | 54 | Tr | 0.2 | 0.7 |
| Shoeburyness | | 52 | 51 | | 0.3 | 0.6 |
| Felixstowe | 75 | 52 | 49 | 1 | 6 | 0.5 |
| Gorleston | 63 | 51 | 51 | 0.5 | 10 | 0.2 |
| Mildenhall | 64 | 46 | 40 | 0.3 | 6 | 0.0 |
| Cranwell | 64 | 41 | 36 | Tr | Tr | 0.4 |
| Birmingham | 62 | 41 | 30 | - | - | 0.0 |
| Upper Heyford | 61 | 48 | 45 | 0.2 | 2 | * |
| Ross-on-Wye | 63 | 41 | 36 | 0.3 | - | 0.1 |
| Hartland Point | 58 | 52 | 50 | 0.3 | 1 | 0.0 |
| Bristol | 61 | 49 | 48 | 15 | 4 | 0.0 |
| Portland Bill | 60 | 51 | * | 3 | - | * |
| Plymouth | 63 | 52 | 50 | 0.3 | 1 | 0.0 |
| The Lizard | 61 | 53 | * | 0.5 | - | 0.2 |
| Scilly (St. Mary's) | 59 | 54 | * | 3 | - | 1.1 |
| Guernsey | | | | | | |
| Pembroke | 58 | 46 | * | Tr | - | 0.3 |
| Holyhead (Valley) | 59 | 37 | | Tr | - | * |
| Chester (Sealand) | 60 | 37 | 27 | Tr | - | 0.0 |
| Manchester | 58 | 35 | 28 | 0.2 | - | * |
| Spurn Head | 62 | 46 | | - | - | 0.5 |
| Catterick | 61 | 37 | 31 | Tr | - | 6.2 |
| Tynemouth | 58 | 43 | 39 | Tr | - | * |
| St. Abbs Head | 55 | 43 | | - | - | |
| Leuchars | 57 | 40 | 35 | - | - | 9.2 |
| Renfrew (Abbots I.) | 56 | 44 | 35 | 0.1 | 0.5 | 4.3 |
| Eskdalemuir | 56 | 36 | 29 | - | - | 8.5 |
| Point of Ayre | 58 | 49 | * | - | - | 8.1 |
| Tiree | 54 | 48 | * | 1 | 0.3 | 6.5 |
| Stornoway | 51 | 43 | | 3 | 0.6 | |
| Dalwhinnie | 49 | 41 | 35 | 3 | 0.5 | 4.3 |
| Aberdeen † | 56 | 44 | 40 | Tr | Tr | 65 |
| Wick | 51 | 41 | 35 | 1 | 2 | * |
| Sumburgh | 54 | 46 | 41 | 5 | Tr | 1.6 |
| Blacksod Point | 55 | 44 | * | - | - | |
| Malin Head | 54 | 49 | | 0.3 | 0.1 | 7.1 |
| Aldergrove | 56 | 40 | 33 | - | - | 0.0 |
| Birr Castle | 59 | 33 | 28 | - | - | 7.1 |
| Valentia Obsy. | 58 | 38 | 31 | Tr | Tr | 1.8 |
| Roches Point | 60 | 43 | * | - | - | * |

Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 5th October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 6th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 30 | 10755 | 55785 | 30 | 25654 | 57884 | 3- | 25853 | 57683 | 56 | 10855 | 24357 |
| 115 | | | | | | | 87 | 81844 | 91887 | 54 | 10844 | 51587 |
| 203 | 8- | 82846 | 24786 | | | | | | | 5- | 02848 | 24528 |
| 206 | 20 | 81862 | 55782 | 90 | 10854 | 55884 | 5- | 01854 | 24814 | 57 | 02865 | 24427 |
| 210 | 10 | 01964 | 55514 | 8- | 02845 | 54516 | | | | 46 | 02963 | 20327 |
| 220 | 80 | 25755 | 24585 | | | | | | | 57 | 02854 | 23418 |
| 230 | 2- | 25864 | 22584 | 3- | 81864 | 55585 | 3- | 25855 | 53385 | 7- | 02857 | 22127 |
| 245 | | | | 50 | 02953 | 24326 | 05 | 01990 | 23112 | 54 | 02951 | 20117 |
| 260 | | | | 1- | 01752 | 24614 | 50 | 01761 | 24211 | 50 | 02781 | 24318 |
| 278 | 10 | 01852 | 26512 | 1- | 01855 | 27415 | 00 | 00890 | 24410 | 5- | 02857 | 24317 |
| 279 | 14 | 01863 | 65423 | 14 | 01863 | 57413 | 50 | 01761 | 24211 | 30 | 02962 | 22227 |
| 285 | 23 | 01854 | 24514 | 23 | 01834 | 28514 | 02 | 05648 | 02358 | 13 | 01742 | 14214 |
| 288 | 12 | 01863 | 85414 | 00 | 01790 | 22114 | 00 | 05690 | 19200 | 00 | 02890 | 18215 |
| 575 | 10 | 01853 | 32513 | 40 | 01852 | 28413 | 40 | 01753 | 24113 | 57 | 02866 | 00017 |
| 301 | 37 | 01951 | 26455 | 10 | 05652 | 28314 | 00 | 05690 | 32210 | 53 | 05665 | 28317 |
| 321 | | | | | | | 10 | 05690 | 28325 | 00 | 04890 | 00044 |
| 299 | 64 | 01754 | 22215 | 40 | 01764 | 24214 | 00 | 00790 | 22200 | 44 | 01763 | 24214 |
| 292 | 59 | 01952 | 28464 | 08 | 01890 | 24324 | 50 | 01761 | 24201 | 04 | 02890 | 25105 |
| 310 | -- | ----- | 02688 | -- | 01634 | 24314 | | | | | | |
| 614 | 57 | 05645 | 24368 | 03 | 05680 | 00025 | 00 | 05590 | 28110 | 00 | 05590 | 28213 |

| III | 13h. G.M.T. 5th October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 6th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 53 | 01962 | 30855 | 56 | 01852 | 32225 | 00 | 00790 | 02200 | 30 | 02861 | 32206 |
| 334 | -- | 02758 | 24214 | | | | | | | -- | 04108 | 00028 |
| 340 | 57 | 02745 | 30368 | | | | 50 | 05662 | 00002 | 04 | 04190 | 00002 |
| 136 | 57 | 05645 | 21327 | 5- | 05568 | 29228 | 07 | 02790 | 30365 | | | |
| 336 | 57 | 21755 | 26356 | 14 | 01752 | 24314 | | | | 53 | 01752 | 28313 |
| 350 | 5- | 6748 | 16228 | | | | 52 | 22562 | 28268 | 54 | 05675 | 01227 |
| 368 | 5- | 51638 | 20258 | 52 | 61745 | 30168 | 5- | 05657 | 02367 | 5- | 05677 | 04227 |
| 379 | 5- | 02728 | 20368 | 62 | 63637 | 02468 | 5- | 05648 | 32368 | 5- | 05666 | 02326 |
| 390 | 57 | 41466 | 20267 | 52 | 97548 | 00098 | 5- | 08458 | 80398 | 57 | 05582 | 32328 |
| 382 | 62 | 62624 | 00067 | 32 | 62613 | 00068 | 5- | 22666 | 32168 | 5- | 05666 | 06227 |
| 438 | -- | 48009 | 06289 | | | | 5- | 05552 | 04483 | | | |
| 430 | | | | 00 | 05590 | 00027 | 5- | 05648 | 04428 | 57 | 61647 | 04428 |
| 409 | 52 | 61718 | 02368 | 5- | 51828 | 04528 | 5- | 51648 | 37468 | 5- | 02857 | 02427 |

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 October
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 * | cr₀rcm₀ | cr₀ rcm₀ | cz₀ |
| Croydon | omcmr₀ | cm₀ircm | cfirfcm₀ |
| Greenwich | cir | c | crc |
| Camden Square | c | c | * |
| *Kensington | bcz₀ | mbc | * |
| Hampstead | orbc | or | c |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time. 0.2 18–20hrs
Min. Time. <0.1 12hrs 5th

| 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 | 65 | 51 | 33 | 1 | 1 | 0.1 | * | * |
| Croydon | 66 | 62 | 50 | 1 | 1 | 1.1 | * | * |
| Greenwich | 66 | 51 | 49 | 1.3 | 0.8 | 0.2 | 80 | 67 |
| Westminster | 65 | 49 | 49 | 3.8 | | * | 85 | 62 |
| Regents Park | 64 | 51 | 50 | 0.6 | 6.8 | * | 81 | 67 |
| Camden Square | 64 | 51 | 49 | 5.1 | 1.3 | * | * | 68 |
| Kensington | 66 | 51 | 47 | 2.3 | 2.5 | * | 88 | 76 |
| Hampstead | 62 | 45 | 45 | 0.5 | 1.7 | * | * | 77 |

Page 1 BRITISH SECTION

SECRET

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

Wednesday 7th October 1942

No. 29539

## OBSERVATIONS at 13h. G.M.T. 6th October

| 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) | 25·0 | -2 | NE | 2 | zo | 55 | 65 | 46 | 6 | 5 | 7 | - | 2-3 | 10 | 2500 |
| | Croydon ... | 24·7 | -2 | E'N | 2 | zo | 56 | 75 | 47 | 6 | 5 | 7 | - | 7-8 | 10 | 3500 |
| | S. Farnborough | 24·6 | -6 | NE | 2 | zo | 54 | 65 | 40 | 6 | 5 | 7 | - | 4-6 | 10 | 3500 |
| | Boscombe Down | 24·6 | -2 | N'E | 2 | iwo | 52 | 92 | 50 | 7 | 5 | - | - | 10 | 10 | 5700 |
| | Thorney Island | 23·7 | +2 | NE | 3 | zo | 55 | 65 | 45 | 6 | 6 | - | - | 10 | 10 | 2500 |
| | Lympne ... | 24·3 | 0 | ENE | 3 | c | 57 | 75 | 49 | 8 | 5 | 7 | - | 9 | 10 | 5000 |
| | Manston ... | 24·6 | +2 | NE'N | 3 | c | 58 | 65 | 47 | 7 | 5 | 7 | - | 4-6 | 9+ | 2000 |
| 2 | Shoeburyness ... | 24·9 | 0 | NNE | 3 | c-bc | 58 | 75 | 48 | 8 | 5 | 7 | - | 2-3 | 7-8 | 3500 |
| | Felixstowe ... | 25·3 | +2 | NE | 3 | c | 56 | 65 | 45 | 7 | 5 | - | - | 10 | 10 | 4500 |
| | Gorleston ... | 25·7 | +10 | NNE | 2 | b-bc | 56 | 65 | 42 | 7 | 1 | 4 | - | 2-3 | 2-3 | 2500 |
| | Mildenhall ... | 25·6 | +6 | NE | 1 | b-bc | 58 | 55 | 43 | 8 | 1 | 3 | - | Tr | 2-3 | 2500 |
| | Cranwell ... | 25·5 | +6 | N'E | 1 | c-bc | 57 | 55 | 39 | 7 | - | - | 5 | 0 | 7-8 | - |
| 3 | Birmingham ... | 25·5 | 0 | E | 2 | bc | 56 | 55 | 41 | 7 | - | - | 2 | 0 | 4-6 | - |
| | Upper Heyford | 25·3 | -2 | ENE | 2 | c | 53 | 65 | 42 | 7 | 5 | 3 | - | 4-6 | 9 | 5000 |
| 4 | Ross-on-Wye | 24·9 | -6 | ENE | 3 | b-bc | 57 | 55 | 38 | 7 | - | 5 | 5 | 0 | 2-3 | - |
| 5 | Hartland Point | 23·4 | -4 | ENE | 4 | c-bc | 54 | 65 | 43 | 8 | - | 7 | 1 | 0 | 7-8 | - |
| | Bristol ... | 25·5 | 0 | NE'N | 3 | ivo | 52 | 75 | 43 | 7 | - | 7 | - | 0 | 10 | - |
| | Portland Bill ... | 22·6 | +6 | ENE | 5 | o | 54 | 92 | 52 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 23·7 | +6 | ENE | 4 | c | 53 | 85 | 48 | 8 | 5 | 7 | - | 7-8 | 10 | 3000 |
| | The Lizard ... | 22·5 | +4 | NE | 5 | c-bc | 53 | 92 | 51 | 8 | 8 | 2 | - | 7-8 | 7-8 | 1500 |
| | Scilly (St. Mary's) | 23·2 | +2 | NE | 3 | bc | 60 | 75 | 52 | 7 | 5 | 4 | 2 | 4-6 | 4-6 | 1200 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 25·0 | -4 | NE'E | 2 | b-bc | 57 | 75 | 49 | 8 | - | - | 9 | 0 | 2-3 | - |
| 7 | Holyhead (Valley) | 25·5 | -4 | E | 1 | b-bc | 58 | 55 | 43 | 8 | 5 | - | 1 | 1 | 2-3 | 3000 |
| | Chester (Sealand) | 25·3 | -6 | SE'S | 2 | zo | 61 | 55 | 43 | 6 | 2 | - | - | 4-6 | 4-6 | 3500 |
| 8 | Manchester ... | 25·6 | -8 | WSW | 1 | zo | 55 | 65 | 45 | 6 | - | - | - | 0 | 0 | - |
| 10 | Spurn Head ... | 25·8 | 0 | E'S | 2 | c | 54 | 65 | 43 | 7 | - | 3 | 2 | 0 | 4-6 | 4000 |
| | Catterick ... | 25·5 | -2 | - | 0 | bc | 59 | 55 | 43 | 8 | 1 | - | - | 4-6 | 4-6 | 4000 |
| | Tynemouth ... | 25·2 | +4 | W | 3 | bc | 55 | 55 | 41 | 7 | 2 | 3 | - | 2-3 | 4-6 | 2500 |
| 11 | St. Abbs Head | 22·8 | -4 | SW | 3 | bc | 56 | 65 | 42 | 8 | 1 | - | - | 4-6 | 4-6 | 4000 |
| | Leuchars ... | 22·5 | +2 | SW | 2 | c-bc | 56 | 65 | 44 | 7 | 1 | 3 | 9 | 1 | 7-8 | 3500 |
| 12 | Renfrew (Abbots I.) | 23·4 | 0 | WSW | 3 | bc | 56 | 65 | 44 | 8 | 1 | 3 | 1 | 4-6 | 4-6 | 2500 |
| | Eskdalemuir ... | 24·3 | 0 | SW | 2 | c-bc | 52 | 75 | 43 | 8 | 7 | - | - | 7-8 | 7-8 | 2100 |
| | Point of Ayre ... | 25·1 | 0 | N'E | 1 | c-bc | 56 | 65 | 46 | 8 | 2 | 4 | 5 | 7-8 | 7-8 | 2500 |
| 13A | Tiree ... | 21·2 | -6 | SW'W | 5 | o | 53 | 85 | 48 | 8 | 5 | - | - | 10 | 10 | 2500 |
| 13B | Stornoway ... | 17·7 | -4 | SW | 5 | c | 53 | 85 | 48 | 8 | 5 | 7 | 7 | 7-8 | 10 | 2500 |
| 15 | Dalwhinnie ... | 22·0 | 0 | SW | 3 | c-bc | 51 | 65 | 41 | 7 | 8 | 3 | - | 2-3 | 7-8 | 2500 |
| | Aberdeen ... | 22·0 | +4 | S | 3 | c-bc | 55 | 65 | 42 | 8 | 5 | - | 8 | Tr | 7-8 | 3500 |
| | Wick ... | 19·8 | +6 | WSW | 3 | c | 51 | 85 | 45 | 9 | 5 | 7 | - | 2-3 | 10 | 3000 |
| 16 | Sumburgh ... | 17·0 | +16 | WSW | 5 | c | 51 | 75 | 43 | 8 | 5 | 7 | - | 4-6 | 9+ | 2800 |
| 17 | Blacksod Point | 23·2 | -10 | S'E | 5 | c-bc | 55 | 75 | 48 | 8 | 8 | - | 6 | 4-6 | 7-8 | 4000 |
| 18 | Malin Head ... | 23·0 | 0 | SSW | 3 | c | 53 | 75 | 46 | 8 | 5 | - | - | 10 | 10 | 2500 |
| | Aldergrove ... | 24·7 | -6 | SW | 2 | c | 54 | 65 | 43 | 7 | 7 | 7 | - | 7-8 | 9+ | 4000 |
| 19 | *Birr Castle ... | 24·5 | -6 | S | 2 | c | 58 | 65 | 47 | 8 | 5 | - | 5 | 4-6 | 9 | 2500 |
| 20 | Valentia Obsy. | 24·8 | -14 | S'E | 3 | bc | 57 | 55 | 42 | 8 | - | - | 3 | 0 | 4-6 | - |
| | Roches Point | 24·2 | -12 | E | 3 | bc | 56 | 75 | 48 | 8 | - | - | 5 | 0 | 4-6 | - |

## OBSERVATIONS at 18h. G.M.T. 6th October

| 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) | 24·0 | -4 | ENE | 3 | zo | 56 | 75 | 47 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | • |
| Croydon | 24·1 | -6 | NE | 3 | zo | 55 | 85 | 50 | 5 | 5 | 7 | - | 9 | 10 | 3500 | 1 | • |
| S. Farnborough | 23·9 | -8 | NE'E | 1 | zo | 53 | 85 | 47 | 5 | 5 | - | - | 10 | 10 | 2400 | 1 | • |
| Boscombe Down | 23·6 | -6 | NE'E | 3 | zo | 51 | 92 | 49 | 6 | 5 | - | - | 10 | 10 | 5700 | 0 | • |
| Thorney Island | 23·1 | -4 | NE'E | 2 | rr | 55 | 85 | 49 | 5 | 5 | ⊤ | - | 10 | 10 | 1500 | 1 | • |
| Lympne | 24·1 | 0 | ENE | 3 | c/r | 55 | 85 | 52 | 6 | - | 7 | - | 0 | 10 | - | 1 | 3 |
| Manston | 24·1 | +2 | NE | 3 | zo | 57 | 75 | 48 | 6 | 5 | 7 | - | 7·8 | 10 | 4000 | 1 | § • |
| Shoeburyness | 24·4 | -4 | ENE | 3 | iro | 56 | 75 | 49 | 6 | 5 | 7 | - | 9 | 10 | 3500 | 1 | • |
| Felixstowe | 24·9 | +4 | NE'N | 2 | c | 54 | 75 | 47 | 7 | 5 | 3 | 2 | Tr | 9 | 5700 | 0 | 2 |
| Gorleston | 25·5 | 0 | E | 2 | bc | 59 | 75 | 51 | 7 | - | 4 | - | 0 | 4-6 | - | 0 | 3 |
| Mildenhall | 25·0 | 0 | E | 2 | b-bc | 53 | 75 | 47 | 8 | - | 4 | 1 | 0 | 2-3 | - | 1 | • |
| Cranwell | 24·8 | +4 | SE'E | 1 | b-bc | 48 | 85 | 44 | 7 | - | - | 5 | 0 | 2-3 | - | 0 | • |
| Birmingham | 24·4 | -6 | SE | 2 | zo | 53 | 65 | 42 | 5 | - | 3 | 1 | 0 | 2-3 | - | 1 | • |
| Upper Heyford | 24·3 | 0 | ENE | 1 | zo | 53 | 75 | 46 | 6 | 5 | - | - | 10 | 10 | 3000 | 0 | • |
| Ross-on-Wye | 23·9 | -10 | S | 1 | c | 54 | 75 | 45 | 7 | 5 | - | - | 10 | 10 | 3500 | 1 | • |
| Hartland Point | 22·5 | -4 | ENE | 3 | c | 52 | 85 | 46 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 3 |
| Bristol | 24·6 | -4 | - | 0 | zo | 52 | 85 | 46 | 6 | - | 7 | - | 0 | 10 | - | 1 | • |
| Portland Bill | 21·7 | -12 | E | 5 | o | 54 | 97 | 53 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| Plymouth | 22·9 | -6 | ENE | 2 | zo | 53 | 85 | 49 | 6 | 5 | 7 | - | 4-6 | 10 | 3000 | 0 | 2 |
| The Lizard | 21·4 | -14 | ENE | 5 | c | 53 | 92 | 52 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Scilly (St. Mary's) | 22·3 | -6 | E | 3 | c | 55 | 85 | 50 | 7 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 24·4 | -10 | SE'E | 4 | bc | 55 | 75 | 47 | 8 | 5 | 3 | - | 2-3 | 4-6 | 3000 | 0 | 2 |
| Holyhead (Valley) | 23·6 | -16 | - | 0 | bc | 52 | 85 | 46 | 8 | - | 4 | 2 | 0 | 4-6 | - | 0 | 1 |
| Chester (Sealand) | 23·7 | +4 | SW'S | 1 | zo | 51 | 85 | 47 | 6 | - | - | 9 | 0 | 2-3 | - | 0 | • |
| Manchester | 24·1 | -2 | - | 0 | zo | 50 | 85 | 45 | 5 | - | - | 2 | 0 | 1 | - | 0 | • |
| Spurn Head | 25·3 | 0 | SE | 3 | bc | 52 | 75 | 45 | 7 | 7 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| Catterick | 24·4 | 0 | SSE | 1 | bc | 51 | 75 | 44 | 8 | - | - | 8 | 0 | 4-6 | - | 0 | • |
| Tynemouth | 19·4 | 0 | S | 4 | bc | 52 | 85 | 47 | 6 | 2 | 3 | 2 | 4-6 | 4-6 | 2600 | 1 | 2 |
| St. Abbs Head | 21·7 | 0 | SW | 3 | c-bc | 51 | 75 | 45 | 7 | 5 | 4 | - | 4-6 | 7-8 | 4000 | 0 | 3 |
| Leuchars | 21·1 | -8 | SW | 2 | c | 51 | 85 | 45 | 7 | 4 | - | 7 | 2-3 | 10 | 4000 | 0 | • |
| Renfrew (Abbots I.) | 21·7 | -12 | SW | 1 | c | 52 | 75 | 44 | 7 | 5 | 4 | 1 | 7-8 | 9 | 3000 | 1 | • |
| Eskdalemuir | 22·9 | -8 | SW | 2 | bc | 48 | 85 | 41 | 8 | 5 | - | + | 4-6 | 4-6 | 2200 | 0 | • |
| Point of Ayre | 23·1 | -10 | WSW | 1 | c | 50 | 85 | 46 | 8 | 4 | 7 | 1 | Tr | 9 | 4000 | 0 | 2 |
| Tiree | 17·8 | -14 | SSW | 5 | c | 52 | 85 | 48 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 5 |
| Stornoway | 13·8 | -12 | SSW | 7 | c/pr | 52 | 85 | 48 | 8 | 8 | 7 | - | 9 | 10 | 1500 | 1 | 4 |
| Dalwhinnie | 19·5 | -10 | SSW | 4 | bc | 46 | 85 | 42 | 7 | 5 | 4 | - | 2-3 | 4-6 | 2500 | 0 | • |
| Aberdeen | 19·8 | -16 | S'E | 2 | zo | 52 | 75 | 46 | 5 | - | 7 | 7 | 0 | 9+ | - | 1 | 1 |
| Wick | 17·9 | -4 | SSW | 4 | c | 52 | 92 | 51 | 8 | 5 | 7 | - | 2-3 | 9+ | 2500 | 1 | • |
| Sumburgh | 15·6 | -4 | SW'S | 6 | c | 52 | 85 | 48 | 8 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| Blacksod Point | 19·6 | -20 | S | 6 | c | 53 | 85 | 48 | 8 | 8 | - | 6 | 4-6 | 9+ | 2500 | 0 | 5 |
| Malin Head | 19·0 | -20 | S'E | 3 | c | 52 | 75 | 45 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | 3 |
| Aldergrove | 22·0 | -10 | S | 2 | b-bc | 49 | 75 | 42 | 8 | 5 | 7 | 9 | 1 | 2-3 | 4000 | 1 | • |
| *Birr Castle | 22·2 | -10 | S | 1 | c-bc | 51 | 75 | 44 | 8 | - | - | 5 | 0 | 7-8 | - | 1 | • |
| Valentia Obsy. | 22·3 | -10 | S'E | 3 | c-bc | 50 | 85 | 45 | 8 | 1 | 3 | 5 | Tr | 7-8 | 2500 | 1 | 1 |
| Roches Point | 23·1 | -10 | SE | 2 | bc | 53 | 85 | 48 | 8 | 5 | - | 5 | 2-3 | 4-6 | 2500 | 1 | 3 |

## PAST 24 HOURS. WEATHER.

| Stations | 7h.—13h. 6th (39) | 13h.—18h. 6th (40) | 18h. 6th to 1h. 7th (41) | 1h.—7h. 7th (42) |
|---|---|---|---|---|
| London (Kew) | czo | cforczo | czoromo | codoFF |
| Croydon | czo | CZomo | cmoomo | cofidofe |
| S. Farnborough | czo | CZoidofomo | cmoidomo | cfidoofe |
| Boscombe Down | cido | Cifoc | ccmo | cmodf |
| Thorney Island | ccmo | CMorr | rrdocmo | dodoFF |
| Lympne | cmoc | Ciroircmo | comο | omomfe |
| Manston | c | CZo | omo | omoddF |
| Shoeburyness | c | Cidomo | ciromo | ododofo |
| Felixstowe | ccmoc | c,bbcc | cororomoc | irodoofe |
| Gorleston | cbc | bcc | bcc | coz |
| Mildenhall | bcmob | bbcyb | b,bccmo | cmoomow |
| Cranwell | bcmobmo | bcybc | b,cbcmow | emowcidmo |
| Birmingham | bmbc | bczo | bc | bcof |
| Upper Heyford | czoc | cbcczomo | idocmo | omododof |
| Ross-on-Wye | bzobb | bcyc | czo | cmpf |
| Hartland Point | c | c | c | c |
| Bristol | cmo | CZo | cmocm | offdofe |
| Portland Bill | o | o | o | o |
| Plymouth | cmoidoc | cmo | cmo | cmow |
| The Lizard | oc | bbc | opro o | om |
| Scilly (St. Mary's) | cbc | bbc | c | ooffec |
| Guernsey | | | | |
| Pembroke | bcb | bcc | c | c |
| Holyhead (Valley) | bcb | bbc | bcbw | cwc |
| Chester (Sealand) | bcmoczoy | bczocy | bczodmo | czobcm |
| Manchester | bfbcmmo | bbczo | bzomo | cmo |
| Spurn Head | bc | bc | b | c |
| Catterick | cbcy | cybc | bmobcf | bcfcf |
| Tynemouth | bc | bc | bcb | bccmo |
| St. Abbs Head | bc | bcc | bccbc | bccmo |
| Leuchars | c | c | bcmocmo | cbcmo |
| Renfrew (Abbots I.) | cbc | bcidoc | cmoc | bcmoc |
| Eskdalemuir | cbcc | cbc | bc | bccmo |
| Point of Ayre | c | c | cbcbw | bbccw |
| Tiree | c | c | bcc | coiro |
| Stornoway | crr | cpro | c | crr |
| Dalwhinnie | c | C | • | C |
| Aberdeen | bccyc | cczo | cbczo | bcc |
| Wick | c | c | crororc | c |
| Sumburgh | bcprоc | dodoc | crrroro | cmoiroc |
| Blacksod Point | c | c | c | c |
| Malin Head | c | c | c | c |
| Aldergrove | cbcmoc | cbc | bccbc | cbc |
| *Birr Castle | c | c | • | c |
| Valentia Obsy. | bc | bc | bc | c |
| Roches Point | bc | bc | bc | c |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 7th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales | Light or moderate South wind; mainly cloudy; local rain; local fog; rather warm and 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 ↓ | Light or moderate South wind, fresh locally later; cloudy; occasional rain later; local mist or fog; rather warm and close. |
| 13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland ↓; 15 N.E. Scotland ↓ | Fresh South-southwest wind, strong to gale on coasts; cloudy; occasional rain; bright intervals and showers later; becoming cooler. |
| 16 Orkneys and Shetlands ↓ | As 13A-15. |
| 17 N. W. Ireland; 18 N. E. Ireland ↓; 19 S. E. Ireland; 20 S. W. Ireland | Moderate or fresh South wind, strong locally on coasts veering later; cloudy; occasional rain; average temperature. |

### GENERAL INFERENCE

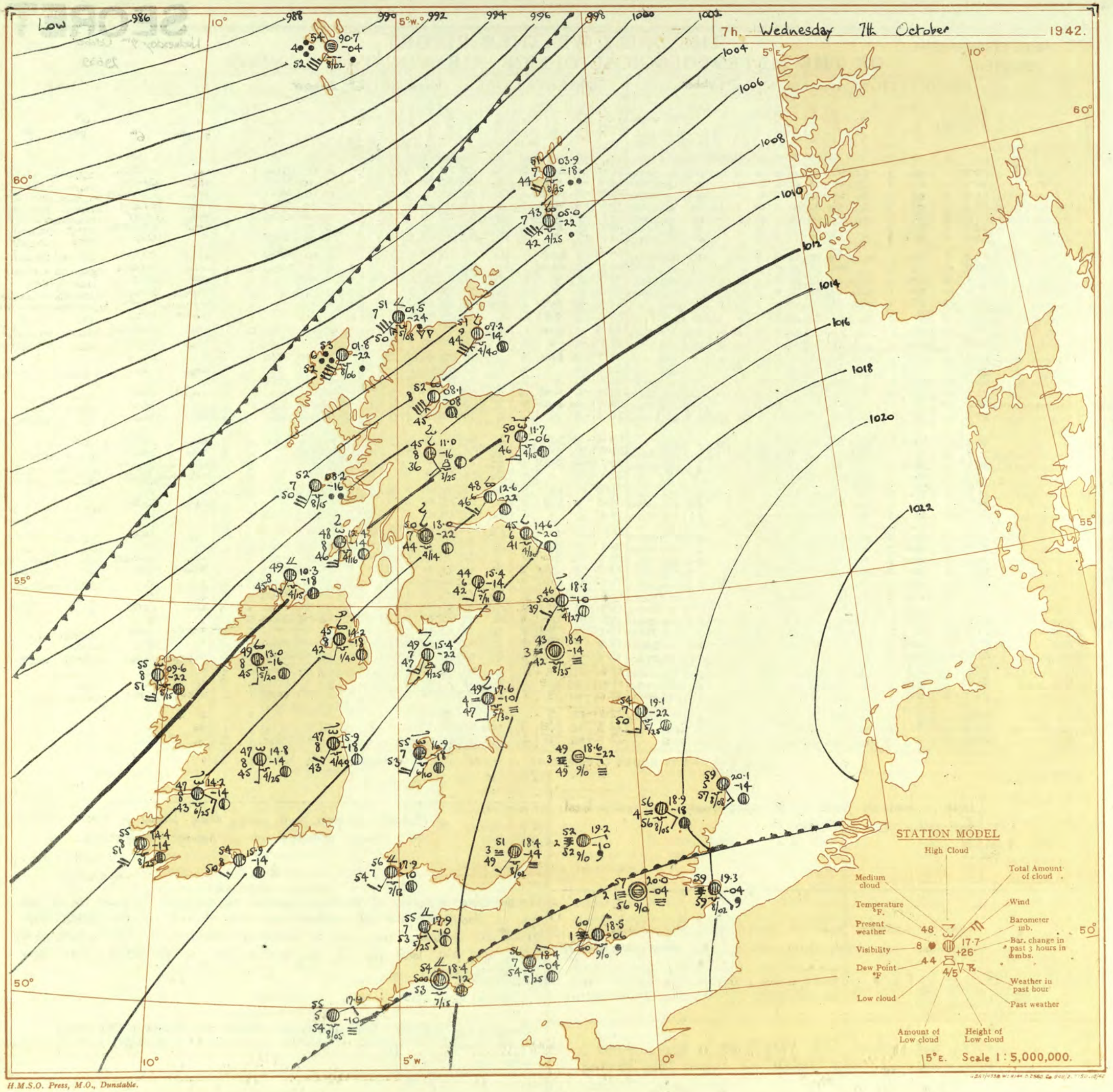
A very deep depression off Southeast Iceland is expected to move slowly east and an associated front off northwest and west districts of the British Isles slowly east-southeast. There will be considerable cloud in the East and South of the British Isles with local fog. In the North and West of the British Isles there will be occasional rain.

### FURTHER OUTLOOK

Cloudy in the South with local rain. Bright intervals and showers in the North
↓ Gale warnings in operation in districts 11, 12, 13A&B, 14, 15, 16, 18 (part of). Times of issue 1630 6/10, 2120 6/10.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

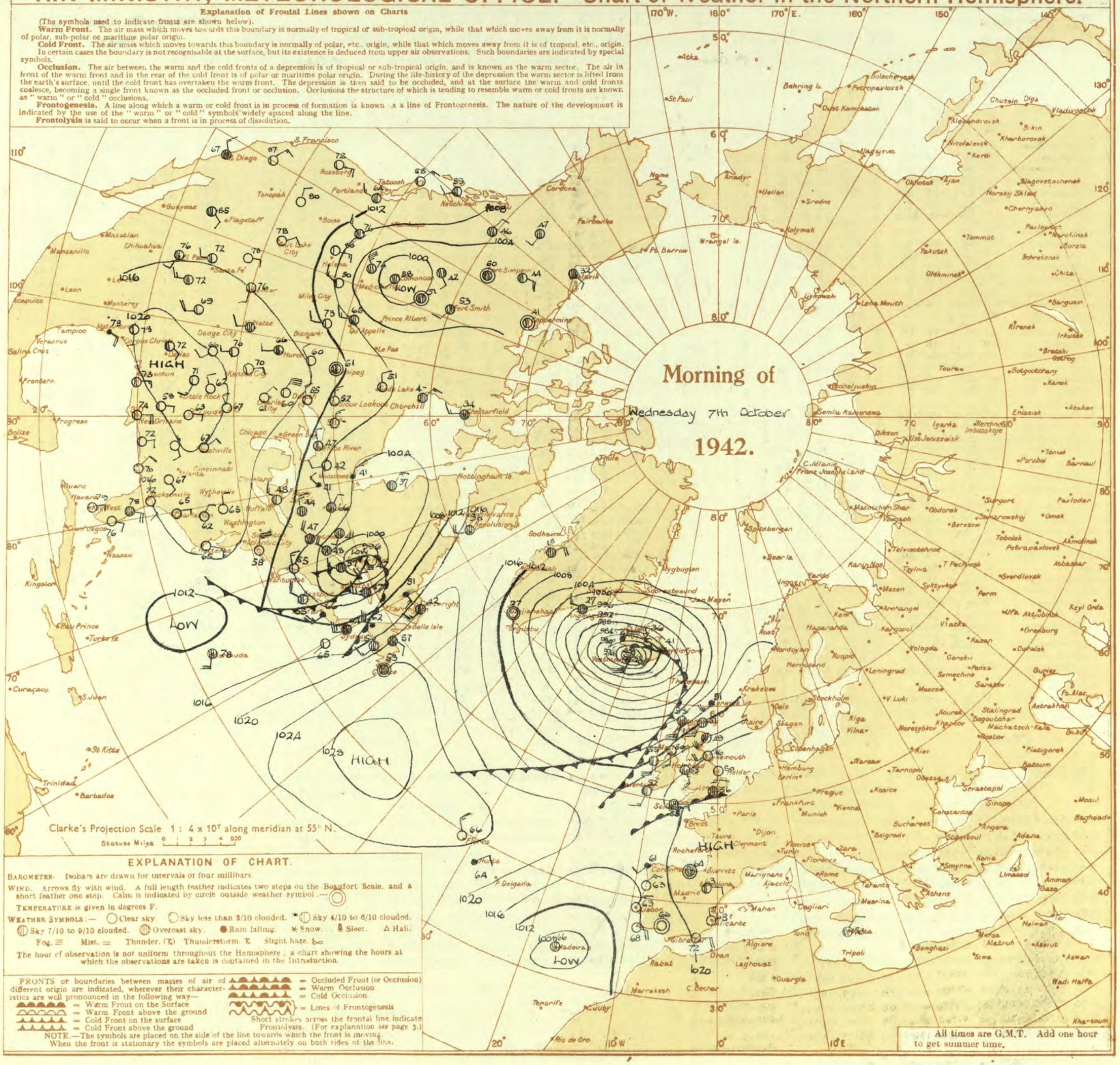
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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.

Wednesday 7th October 1942

No. 29539

## OBSERVATIONS at 1 hr. G.M.T. 7th October

| 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 | 22·7 | −14 | NE | 2 | zo | 56 | 85 | 49 | 5 | S | – | – | 10 | 10 | 600 |
| | S. Farnborough | 226 | 21·9 | −14 | NE'E | 2 | zo | 54 | 92 | 52 | 5 | S | – | – | 10 | 10 | 900 |
| | Boscombe Down | 417 | 22·1 | −14 | E'N | 2 | zo | 52 | 97 | 51 | 6 | S | – | – | 10 | 10 | 600 |
| | Thorney Island | 10 | 21·2 | −12 | E'N | 2 | c/d | 57 | 92 | 56 | 6 | S | – | – | 10 | 10 | 300 |
| | Lympne | 283 | 22·3 | −14 | E | 3 | zo | 58 | 97 | 57 | 6 | S | – | – | 10 | 10 | 500 |
| | Manston | 154 | 22·1 | −10 | ESE | 3 | zo | 58 | 92 | 56 | 5 | S | – | – | 10 | 10 | 300 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 22·7 | −18 | E | 3 | c/r | 59 | 85 | 55 | 6 | S | – | – | 10 | 10 | 2100 |
| | Gorleston | 5 | 23·5 | −16 | SSE | 3 | c-bc | 58 | 75 | 51 | 7 | S | – | – | 7-8 | 7-8 | 1500 |
| | Mildenhall | 15 | 22·6 | −22 | E'S | 1 | zo | 50 | 97 | 49 | 6 | S | – | – | 10 | 10 | 2300 |
| | Cranwell | 203 | 23·0 | −18 | SE'S | 1 | zo | 44 | 92 | 42 | 6 | S | – | – | 7-8 | 7-8 | 4000 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 22·1 | −14 | ENE | 1 | zo | 52 | 85 | 49 | 5 | S | – | – | 10 | 10 | 1000 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 20·6 | −18 | SE | 2 | bc | 52 | 85 | 49 | 7 | S | – | – | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 22·2 | −18 | – | 0 | m | 51 | 92 | 50 | 4 | S | – | – | 10 | 10 | 600 |
| | Portland Bill | 32 | 20·5 | −14 | E | 2 | o | 52 | 92 | 49 | 7 | S | – | – | 10 | 10 | 2500 |
| | Plymouth | 82 | 21·4 | −8 | NE | 1 | zo | 55 | 92 | 53 | 6 | S | – | – | 10 | 10 | 2400 |
| | The Lizard | 240 | 20·1 | −14 | ENE | 4 | o | 55 | 92 | 53 | 7 | S | – | – | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 20·7 | −14 | E | 2 | c | 55 | 92 | 53 | 6 | S | – | – | 10 | 10 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 21·0 | −16 | SE | 3 | c | 55 | 92 | 53 | 7 | 8 | 1 | – | 9 | 10 | 4000 |
| 7 | Holyhead (Valley) | 32 | 20·5 | −20 | SSE | 3 | bc | 53 | 85 | 49 | 8 | S | – | – | 4-6 | 4-6 | 3700 |
| | Chester (Sealand) | 16 | 21·4 | −6 | SSE | 2 | zo | 46 | 85 | 41 | 5 | S | – | – | 10 | 10 | 3500 |
| 8 | Manchester | 235 | 21·8 | −18 | SE | 2 | zo | 49 | 85 | 43 | 6 | S | – | – | 7-8 | 7-8 | 3000 |
| 10 | Spurn Head | 29 | 23·6 | −14 | S | 3 | b | 50 | 85 | 46 | 7 | – | – | – | 0 | 0 | – |
| | Catterick | 175 | 22·2 | −18 | SW'S | 2 | bc f | 41 | 97 | 41 | 3 | – | – | 2 | 0 | 4-6 | – |
| | Tynemouth | 108 | 22·0 | −16 | SW | 4 | zo | 46 | 85 | 42 | 6 | – | – | – | 0 | 0 | – |
| 11 | St. Abbs Head | 280 | 18·2 | −32 | S | 3 | bc | 45 | 97 | 44 | 7 | S | – | – | 4-6 | 4-6 | 4000 |
| | Leuchars | 36 | 18·0 | −14 | WSW | 3 | c | 48 | 75 | 44 | 7 | S | 1 | – | 4-6 | 9 | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 18·0 | −18 | SSW | 3 | c | 50 | 75 | 44 | 7 | S | 2 | – | 4-6 | 7-8 | 2000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 21·8 | −18 | SE | 2 | zo | 49 | 85 | 47 | 6 | S | – | – | 7-8 | 7-8 | 4000 |
| 13A | Tiree | 22 | 13·3 | −20 | SSW | 6 | c | 53 | 75 | 45 | 7 | S | 2 | – | 4-6 | 10 | 2500 |
| 13B | Stornoway | 80 | 06·5 | −22 | SSW | 8 | c | 53 | 85 | 48 | 7 | S | 7 | – | 7-8 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 14·8 | −18 | SSW | 6 | c | 49 | 85 | 44 | 8 | S | 7 | – | 2-3 | 9 | 3000 |
| | Wick | 114 | 11·3 | −26 | SSW | 5 | c | 51 | 75 | 44 | 8 | S | 7 | – | 4-6 | 10 | 3500 |
| 16 | Sumburgh | 19 | 10·5 | −26 | SSW | 5 | c/r | 51 | 92 | 49 | 6 | S | 7 | – | 9 | 9+ | 1000 |
| 17 | Blacksod Point | 18 | 14·6 | −22 | S | 6 | c | 55 | 85 | 51 | 8 | 9 | – | – | 9+ | 9+ | 1500 |
| 18 | Malin Head | 84 | 14·3 | −26 | S | 4 | b-bc | 50 | 75 | 42 | 8 | S | – | – | 2-3 | 2-3 | 2500 |
| | Aldergrove | 268 | 18·4 | −18 | S'E | 1 | c-bc | 47 | 85 | 43 | 8 | S | – | – | 7-8 | 7-8 | 4000 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 18·6 | −22 | S'W | 3 | c-bc | 52 | 85 | 48 | 8 | 2 | – | – | 7-8 | 7-8 | 2500 |
| | Roches Point | 22 | 19·6 | −22 | S'W | 4 | c-bc | 52 | 85 | 48 | 8 | S | – | – | 7-8 | 7-8 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 7th October — 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 6th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 19·1 | −10 | NE | 7 | df | 57 | 97 | 57 | 2 | – | – | – | 10 | 10 | <150 | 1 | * | 56 | 55 | 53 | 0·2 | 0·1 | 0·0 |
| Croydon | 20·0 | −4 | — | 0 | f+ | 57 | 97 | 57 | 2 | – | – | – | 10 | 10 | <150 | 1 | * | 56 | 53 | 53 | — | 0·1 | 0·0 |
| S. Farnborough | 19·0 | −6 | — | 0 | F | 54 | 97 | 54 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 54 | 52 | 51 | 0·5 | 0·3 | 0·0 |
| Boscombe Down | 19·1 | −12 | E'S | 1 | dF | 52 | 97 | 52 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 52 | 51 | 51 | Tr | 0·3 | 0·0 |
| Thorney Island | 18·5 | −6 | NE'E | 1 | dF | 60 | 97 | 60 | 1 | S | – | – | 10 | 10 | <150 | 1 | * | 56 | 53 | 52 | 0·2 | 0·6 | * |
| Lympne | 19·8 | −8 | SE | 2 | F | 60 | 97 | 59 | 1 | – | – | – | 10 | 10 | <150 | 1 | §1 | 59 | 55 | 54 | 0·4 | 0·1 | 0·0 |
| Manston | 19·3 | −4 | SSE | 1 | dF | 59 | 97 | 59 | 1 | S | – | – | 10 | 10 | 200 | 1 | * | 59 | 56 | 53 | — | 1 | 0·1 |
| Shoeburyness | 19·3 | −12 | SE | 2 | d.d. | 59 | 97 | 58 | 3 | S | – | – | 10 | 10 | 300 | 1 | * | 60 | 54 | 52 | Tr | 1 | 0·8 |
| Felixstowe | 19·8 | −10 | SE'S | 2 | f | 59 | 92 | 59 | 2 | S | – | – | 10 | 10 | 400 | 1 | 2 | 58 | 52 | 50 | — | 0·4 | 1·6 |
| Gorleston | 20·1 | −14 | SSE | 3 | o | 59 | 92 | 57 | 5 | S | – | – | 10 | 10 | 800 | 0 | 2 | 60 | 53 | 47 | — | — | 9·0 |
| Mildenhall | 18·9 | −18 | SE'S | 2 | m | 56 | 97 | 56 | 4 | S | – | – | 10 | 10 | 500 | 1 | * | 61 | 46 | | — | — | 9·0 |
| Cranwell | 18·6 | −18 | SE'S | 3 | id. | 49 | 92 | 48 | 5 | S | – | – | 10 | 10 | 700 | 1 | * | 59 | 41 | 29 | — | Tr | 9·6 |
| Birmingham | 18·5 | −14 | SSE | 2 | of | 50 | 92 | 48 | 2 | S | – | – | 10 | 10 | 450 | 1 | * | 57 | 47 | 34 | — | — | 9·3 |
| Upper Heyford | 19·2 | −10 | E | 1 | df | 52 | 97 | 52 | 2 | – | – | – | 10 | 10 | <150 | 1 | * | 55 | 51 | 50 | — | Tr | * |
| Ross-on-Wye | 18·4 | −14 | SW | 1 | of | 51 | 92 | 49 | 3 | S | – | – | 10 | 10 | 200 | 1 | * | 59 | 51 | 51 | — | — | 8·1 |
| Hartland Point | 17·9 | −10 | SSE | 1 | c | 55 | 92 | 52 | 7 | S | 2 | – | 7-8 | 10 | 2500 | 0 | 2 | 54 | 51 | 50 | — | — | 0·2 |
| Bristol | 19·3 | −12 | NE | 1 | m/f | 52 | 97 | 51 | 4 | S | – | – | 10 | 10 | 220 | 1 | * | 52 | 50 | 45 | Tr | 0·3 | 0·0 |
| Portland Bill | 18·4 | −4 | NE | 3 | o | 56 | 92 | 54 | 7 | S | – | – | 10 | 10 | 2500 | 1 | 4 | 59 | 51 | * | — | — | * |
| Plymouth | 18·4 | −12 | — | 0 | zo | 54 | 97 | 54 | 5 | S | 2 | – | 9+ | 10 | 2000 | 0 | 1 | 53 | 53 | 52 | Tr | — | 0·0 |
| The Lizard | 17·6 | −12 | ENE | 2 | m | 56 | 97 | 56 | 4 | S | – | – | 10 | 10 | 800 | 1 | 3 | 58 | 53 | * | — | — | 0·0 |
| Scilly (St. Mary's) | 17·9 | −10 | E'N | 2 | c | 55 | 97 | 55 | 5 | S | – | – | 10 | 10 | 500 | 1 | 3 | 62 | 54 | * | — | Tr | 3·9 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 17·9 | −10 | SW | 3 | c | 56 | 92 | 53 | 7 | S | 2 | – | 9+ | 10 | 1300 | 0 | 2 | 59 | 46 | * | — | — | 9·4 |
| Holyhead (Valley) | 16·9 | −18 | S'W | 4 | c | 55 | 92 | 53 | 7 | S | 3 | 1 | 9 | 9+ | 1000 | 0 | 2 | 62 | 41 | 34 | — | — | * |
| Chester (Sealand) | 17·5 | −14 | SE'S | 2 | c | 49 | 92 | 47 | 5 | S | 4 | 8 | 7-8 | 9+ | 5000 | 0 | * | 62 | 43 | 34 | — | — | 8·0 |
| Manchester | 18·2 | −12 | SSE | 2 | zo | 50 | 97 | 49 | 5 | S | 7 | – | 2-3 | 10 | 4000 | 0 | * | 57 | 45 | 37 | — | — | * |
| Spurn Head | 19·1 | −22 | S | 3 | c | 54 | 85 | 50 | 7 | S | 7 | – | 7-8 | 10 | 2500 | 1 | 3 | 55 | 49 | * | — | — | 8·7 |
| Catterick | 18·4 | −14 | — | 0 | cf | 43 | 97 | 42 | 3 | S | – | – | 10 | 10 | 3500 | 0 | * | 61 | 34 | 35 | — | — | 7·0 |
| Tynemouth | 18·3 | −10 | SW | 3 | zo | 46 | 75 | 36 | 5 | S | 4 | 1 | 4-6 | 7-8 | 2700 | 1 | 2 | 58 | 44 | 40 | — | — | * |
| St. Abbs Head | 14·6 | −20 | SE | 2 | c-bc | 45 | 85 | 40 | 6 | S | 4 | – | 4-6 | 7-8 | 3000 | 0 | 2 | 59 | 42 | * | — | — | * |
| Leuchars | 12·6 | −22 | SW | 3 | c | 48 | 92 | 46 | 6 | – | 7 | 7 | 0 | 9 | – | 1 | * | 59 | 47 | 41 | — | — | 5·8 |
| Renfrew (Abbots I.) | 13·0 | −22 | — | 0 | c | 50 | 85 | 44 | 7 | S | 4 | 6 | 4-6 | 9+ | 1400 | 1 | * | 58 | 48 | 42 | Tr | — | 3·5 |
| Eskdalemuir | 15·4 | −14 | S'W | 2 | c | 44 | 92 | 42 | 6 | S | – | – | 9+ | 9+ | 1100 | 1 | * | 53 | 39 | 28 | — | — | 2·4 |
| Point of Ayre | 15·4 | −22 | SW | 3 | c-bc | 49 | 92 | 47 | 7 | 2 | 4 | 5 | 2-3 | 7-8 | 2500 | 0 | 3 | 59 | 44 | * | — | — | 3·5 |
| Tiree | 08·2 | −16 | SSW | 6 | c/r | 52 | 92 | 50 | 7 | S | – | – | 10 | 10 | 1500 | 0 | 5 | 54 | 50 | * | — | 0·2 | 0·0 |
| Stornoway | 01·8 | −22 | SSW | 8 | rr | 53 | 97 | 52 | 6 | S | – | – | 10 | 10 | 600 | 1 | 6 | 53 | 50 | * | 0·4 | 2 | 0·1 |
| Dalwhinnie | 11·0 | −16 | SSE | 4 | c | 45 | 65 | 36 | 8 | 8 | 4 | 9 | 2-3 | 9+ | 2500 | 0 | * | 51 | 44 | 40 | — | — | 1·2 |
| Aberdeen † | 11·7 | −6 | S | 3 | c | 50 | 85 | 44 | 7 | S | 3 | 7 | 4-6 | 9+ | 1500 | 1 | 2 | 57 | 49 | 45 | — | — | 4·0 |
| Wick | 07·2 | −14 | SSW | 2 | c-bc | 51 | 75 | 45 | 9 | S | 4 | – | 4-6 | 7-8 | 4000 | 1 | * | 53 | 47 | 45 | Tr | 0·4 | * |
| Sumburgh | 05·0 | −22 | SW'S | 7 | c | 43 | 97 | 42 | 7 | S | 7 | 2 | 4-6 | 10 | 2500 | 1 | 4 | 52 | 51 | 48 | 0·2 | 2 | |
| Blacksod Point | 09·6 | −22 | S | 5 | c | 55 | 85 | 51 | 8 | S | 3 | – | 7-8 | 9 | 1500 | 0 | 4 | 56 | 52 | * | — | — | * |
| Malin Head | 10·3 | −18 | S'W | 3 | c | 49 | 85 | 45 | 8 | S | 2 | – | 4-6 | 9+ | 1500 | 1 | 2 | 56 | 46 | | Tr | — | 2·0 |
| Aldergrove | 14·2 | −18 | S'W | 2 | c | 45 | 92 | 42 | 8 | S | 7 | 2 | Tr | 9+ | 4000 | 1 | * | 56 | 43 | 39 | — | — | 6·0 |
| Birr Castle | 14·8 | −14 | S | 1 | c-bc | 47 | 92 | 45 | 8 | S | 3 | – | 4-6 | 7-8 | 2500 | 1 | * | 58 | 44 | 37 | — | — | 7·2 |
| Valentia Obsy. | 14·4 | −14 | S'W | 4 | o | 55 | 85 | 48 | 8 | S | – | – | 10 | 10 | 2500 | 1 | 3 | 58 | 49 | 44 | Tr | Tr | 8·7 |
| Roches Point | 15·9 | −14 | SSW | 3 | c | 54 | 85 | 50 | 8 | S | – | – | 9+ | 9+ | 1500 | 1 | 4 | 57 | 52 | * | — | — | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 6th October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 7th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 57 | 21755 | 20457 | 52 | 02657 | 17458 | 5- | 61748 | 17568 | 57 | 02854 | 51527 |
| 115 | | | | | | | 52 | 14844 | 87687 | 62 | 25735 | 87788 |
| 203 | | | | | | | 6- | 02848 | 16728 | | | |
| 206 | 33 | 02964 | 20326 | 57 | 02855 | 17428 | 57 | 02755 | 53626 | 07 | 02890 | 43725 |
| 210 | 59 | 02962 | 29328 | 54 | 02854 | 18328 | 57 | 22864 | 50467 | 09 | 02990 | 49427 |
| 220 | 82 | 03845 | 21488 | 52 | 03745 | 21588 | | | | 5- | 64418 | 20564 |
| 230 | 63 | 02956 | 19328 | 52 | 02857 | 00058 | 51 | 02854 | 49325 | 5- | 02856 | 15327 |
| 245 | 14 | 02961 | 22216 | 54 | 02861 | 18317 | 52 | 02763 | 18328 | 07 | 05690 | 19316 |
| 260 | 13 | 02864 | 22215 | 51 | 02867 | 22328 | 5- | 02764 | 20225 | | | |
| 278 | 50 | 01853 | 20224 | 07 | 02890 | 17227 | 57 | 02855 | 14316 | 57 | 02734 | 14327 |
| 279 | 02 | 02864 | 20225 | 34 | 01662 | 19324 | 50 | 0761 | 09101 | 57 | 05666 | 17327 |
| 285 | | | | 13 | 01891 | 26213 | | | | 5- | 02747 | 08127 |
| 288 | 10 | 01864 | 00014 | 00 | 01890 | 12213 | 00 | 05650 | 19300 | 5- | 05547 | 22328 |
| 575 | 5- | 02868 | 16116 | 5- | 02853 | 16215 | 50 | 01853 | 18313 | 57 | 02855 | 16127 |
| 301 | 13 | 01761 | 22225 | 00 | 47390 | 00043 | 00 | 43390 | 10140 | 50 | 08465 | 16247 |
| 321 | 00 | 02890 | 00015 | 00 | 02790 | 16125 | 03 | 05590 | 17264 | 5- | 05648 | 17228 |
| 299 | 74 | 01761 | 28212 | 50 | 01762 | 28202 | 00 | 00790 | 20300 | 53 | 02745 | 26316 |
| 292 | 10 | 02852 | 28128 | 00 | 01890 | 13114 | 00 | 05690 | 13110 | 5- | 05568 | 15128 |
| 310 | | | | | | | | | | -- | 46109 | 16149 |
| 614 | 00 | 05690 | 00025 | 00 | 01790 | 08214 | 5- | 08478 | 12128 | -- | 57309 | 10169 |

| III | 13h. G.M.T. 6th October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 7th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 14 | 01861 | 12113 | 04 | 01990 | 28113 | 5- | 02758 | 18218 | 5- | 05645 | 18327 |
| 334 | -- | 01781 | 06102 | | | | | | | -- | 02646 | 12117 |
| 340 | 10 | 05671 | 28114 | | | | 5- | 05468 | 14128 | - | 05548 | 14228 |
| 136 | 10 | 01852 | 32213 | 00 | 01790 | 06114 | 50 | 01773 | 10213 | 5- | 05628 | 11268 |
| 336 | 00 | 01790 | 12312 | 54 | 01752 | 04313 | | | | 57 | 05656 | 12328 |
| 350 | 53 | 02775 | 06326 | | | | 5- | 66548 | 07268 | 5- | 57308 | 12158 |
| 368 | 53 | 05654 | 04425 | 5- | 05668 | 12428 | 5- | 05648 | 08228 | -- | 46109 | 06149 |
| 379 | | | | 07 | 02790 | 06228 | 5- | 22528 | 04268 | -- | 57109 | 14159 |
| 390 | 57 | 05664 | 04427 | 57 | 05565 | 04127 | 5- | 00448 | 04168 | | | |
| 382 | 07 | 02720 | 04328 | 57 | 02775 | 00027 | 5- | 05638 | 00028 | -- | 46209 | 00059 |
| 438 | 32 | 62647 | 32568 | 57 | 02654 | 02588 | -- | 46009 | 06349 | -- | 46009 | 08149 |
| 430 | 57 | 05664 | 04427 | 5- | 51648 | 04328 | 5- | 51528 | 08128 | -- | 57109 | 04189 |
| 409 | 5- | 02768 | 08228 | 5- | 02768 | 06128 | 5- | 05648 | 04128 | -- | 46209 | 17149 |

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.

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 7th October.
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 * | czo | cro r rczo | czo r ff |
| Croydon | czo | czo m | cm o fe |
| Greenwich | c | c | cfmd |
| Camden Square | C | C | * |
| *Kensington | oz | cz | * |
| Hampstead | cop | o | odf |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·2 7-20hrs 6th. Min. Time 0·1 0-4hrs 7th.

| 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 | 56 | 55 | 53 | 0·2 | 0·1 | 0·0 | * | * |
| Croydon | 56 | 53 | 53 | — | 0·1 | 0·0 | * | * |
| Greenwich | 56 | 54 | 51 | — | 0·3 | 0·0 | 69 | 98 |
| Westminster | 60 | 53 | 53 | | 0·2 | * | 73 | 98 |
| Regents' Park | 60 | 55 | 53 | Tr | — | * | 62 | 94 |
| Camden Square | 53 | 53 | 53 | — | 0·3 | * | * | 96 |
| Kensington | 56 | 53 | 51 | — | 0·1 | * | 87 | 98 |
| Hampstead | 54 | 52 | 51 | Tr | 0·2 | * | * | 98 |

SECRET

Page 1 BRITISH SECTION

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

Thursday 8th October 1942

No. 23 540

## OBSERVATIONS at 13h. G.M.T. 7th October

| 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) | 16·6 | -14 | - | 0 | df | 61 | 97 | 60 | 3 | 6 | 2 | - | 9 | 10 | 1500 |
| | Croydon | 17·3 | -14 | SW | 2 | ido | 63 | 92 | 61 | 5 | 5 | - | - | 7·8 | 10 | 300 |
| | S. Farnborough | 16·6 | -14 | SW | 2 | Zo | 63 | 92 | 61 | 5 | 5 | - | - | 10 | 10 | 800 |
| | Boscombe Down | 17·6 | -14 | WSW | 1 | ido | 59 | 97 | 58 | 6 | 5 | 2 | - | 7·8 | 10 | 600 |
| | Thorney Island | 17·0 | -10 | SSW | 3 | f+ | 61 | 92 | 61 | 2 | - | - | - | 10 | 10 | <150 |
| | Lympne | 17·3 | -18 | SE | 2 | b | 69 | 75 | 62 | 7 | 1 | - | 1 | 1 | 1 | 2700 |
| | Manston | 17·1 | -14 | SW | 3 | Zo | 71 | 75 | 61 | 6 | 5 | 5 | - | 1 | 2-3 | 600 |
| 2 | Shoeburyness | 17·2 | -20 | SSE | 2 | bc | 66 | 85 | 62 | 6 | 5 | - | - | 4-6 | 4-6 | 3000 |
| | Felixstowe | 17·6 | -14 | SSW | 2 | f | 61 | 97 | 61 | 2 | 5 | - | - | 10 | 10 | 200 |
| | Gorleston | 17·3 | -16 | SSW | 3 | o/d | 60 | 75 | 53 | 5 | 5 | - | - | 10 | 10 | 1000 |
| | Mildenhall | 16·6 | -14 | SE | 3 | Zo | 61 | 92 | 59 | 5 | 5 | - | - | 10 | 10 | 500 |
| | Cranwell | 15·5 | -20 | SWS | 3 | Zo | 60 | 85 | 56 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| 3 | Birmingham | 16·0 | -16 | SW | 3 | c | 58 | 85 | 54 | 7 | 5 | 3 | - | 9 | 9+ | 800 |
| | Upper Heyford | 17·2 | -14 | SSW | 1 | Zo | 58 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 500 |
| 4 | Ross-on-Wye | 15·5 | -20 | SW | 3 | c-bc | 62 | 75 | 55 | 6 | 7 | - | - | 7-8 | 7-8 | 3500 |
| 5 | Hartland Point | 15·7 | -16 | SW | 1 | c | 57 | 92 | 55 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 |
| | Bristol | 17·0 | -18 | SSW | 1 | c | 62 | 85 | 56 | 8 | 5 | 4 | - | 9+ | 9+ | 2300 |
| | Portland Bill | 16·7 | -12 | ENE | 2 | f | 60 | 92 | 58 | 2 | 5 | - | - | 10 | 10 | <150 |
| | Plymouth | 16·4 | -16 | SE | 3 | o/d | 61 | 97 | 60 | 6 | 5 | - | - | 7-8 | 10 | 1200 |
| | The Lizard | 15·4 | -14 | NE'E | 2 | of | 59 | 97 | 59 | 3 | 5 | - | - | 10 | 10 | 400 |
| | Scilly (St. Mary's) | 16·5 | -12 | SSE | 1 | Zo | 58 | 97 | 58 | 5 | 5 | - | - | 10 | 10 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 16·7 | -10 | SW | 3 | c | 58 | 92 | 55 | 7 | 8 | 2 | - | 9+ | 10 | 1400 |
| 7 | Holyhead (Valley) | 14·2 | -22 | SSW | 5 | c | 59 | 75 | 51 | 7 | 5 | 4 | - | 7-8 | 9+ | 2000 |
| | Chester (Sealand) | 14·4 | -18 | SWS | 2 | Zo | 61 | 65 | 48 | 6 | 5 | - | - | 9+ | 9+ | 4500 |
| 8 | Manchester | 15·2 | -18 | SW | 3 | Zo | 59 | 75 | 52 | 6 | 5 | 3 | - | 4-6 | 9 | 4000 |
| 10 | Spurn Head | 16·3 | -16 | SW | 3 | Zo | 58 | 92 | 56 | 5 | 5 | 2 | - | 10 | 10 | 1500 |
| | Catterick | 14·1 | -22 | SW | 3 | Zo | 60 | 65 | 49 | 6 | 5 | 7 | 1 | 4-6 | 9 | 1800 |
| | Tynemouth | 14·3 | -24 | SW | 3 | Zo | 61 | 65 | 49 | 5 | 2 | 3 | 1 | 4-6 | 7-8 | 2200 |
| 11 | St. Abbs Head | 10·7 | -18 | SSW | 3 | Zo | 59 | 75 | 49 | 6 | 5 | 4 | - | 7-8 | 9 | 3000 |
| | Leuchars | 09·5 | -26 | WSW | 5 | c-bc | 59 | 75 | 49 | 7 | 5 | 7 | 6 | 4-6 | 7-8 | 2000 |
| 12 | Renfrew (Abbots I.) | 10·4 | -24 | SSW | 4 | c | 57 | 65 | 44 | 8 | 7 | 7 | 2 | 7-8 | 9+ | 2000 |
| | Eskdalemuir | 11·5 | -16 | SSW | 4 | Zo | 54 | 85 | 48 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Point of Ayre | 12·4 | -24 | WSW | 5 | c | 59 | 75 | 49 | 8 | 8 | - | - | 9+ | 9+ | 3000 |
| 13A | Tiree | 05·1 | -16 | SWS | 7 | dodo | 54 | 92 | 52 | 7 | - | 2 | - | 10 | 10 | 1500 |
| 13B | Stornoway | 99·9 | -18 | SSW | 7 | rr | 54 | 92 | 52 | 6 | 5 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie | 07·0 | -14 | SSW | 4 | c | 51 | 75 | 42 | 8 | 5 | 3 | 9 | 4-6 | 9 | 2500 |
| | Aberdeen | 08·6 | -10 | SW | 4 | Zo | 55 | 65 | 44 | 6 | 5 | 4 | 8 | tr | 9 | 1500 |
| | Wick | 05·5 | -10 | SSW | 5 | c | 54 | 85 | 48 | 8 | - | 7 | - | 0 | 9+ | - |
| 16 | Sumburgh | 03·8 | -14 | SWS | 6 | iro | 52 | 75 | 48 | 8 | 5 | 7 | - | 2-3 | 9+ | 3000 |
| 17 | Blacksod Point | 07·6 | -14 | S | 6 | Dr | 54 | 92 | 52 | 7 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head | 07·4 | -22 | SW | 6 | c | 55 | 75 | 47 | 8 | 5 | 2 | - | 2-3 | 10 | 2500 |
| | Aldergrove | 10·8 | -18 | SW | 3 | Zo | 55 | 75 | 46 | 6 | 5 | - | - | 10 | 10 | 3000 |
| 19 | *Birr Castle | 11·5 | -22 | SSW | 3 | c | 55 | 85 | 51 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 12·1 | -18 | SSW | 5 | c | 57 | 75 | 49 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Roches Point | 13·7 | -16 | SSW | 4 | ido | 57 | 85 | 53 | 8 | 5 | - | - | 9+ | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 7th October

| 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) | 14·4 | -10 | S | 2 | Zo | 62 | 92 | 60 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Croydon | 14·8 | -14 | S | 3 | Zo | 62 | 97 | 60 | 5 | 5 | 7 | - | 7·8 | 10 | 1800 | 1 | * |
| S. Farnborough | 13·9 | -12 | S | 3 | ido | 62 | 92 | 60 | 5 | 5 | 7 | - | 9+ | 10 | 900 | 1 | * |
| Boscombe Down | 13·2 | -28 | SW | 2 | Zo | 60 | 92 | 58 | 4 | 5 | - | - | 10 | 10 | 400 | 1 | * |
| Thorney Island | 14·9 | -10 | SSE | 2 | rr | 60 | 97 | 60 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Lympne | 16·1 | -6 | SW | 2 | c/r | 60 | 97 | 59 | 6 | 5 | 7 | - | 2-3 | 10 | 7000 | 1 | § |
| Manston | 15·2 | -8 | S | 2 | Zo | 63 | 85 | 60 | 6 | 5 | 7 | - | 7-8 | 9+ | 6000 | 1 | * |
| Shoeburyness | 15·7 | -12 | SSW | 3 | c | 63 | 85 | 60 | 6 | 5 | - | - | 9 | 9 | 3000 | 0 | * |
| Felixstowe | 15·3 | -10 | SW | 2 | Zo | 62 | 85 | 59 | 6 | - | 7 | - | 0 | 7-8 | - | 1 | 1 |
| Gorleston | 14·7 | -4 | SSW | 2 | F+ | 59 | 97 | 58 | 1 | - | - | - | 10 | 10 | <150 | 1 | |
| Mildenhall | 14·0 | -10 | SW | 2 | m | 63 | 92 | 61 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Cranwell | 12·5 | -6 | SSW | 3 | Zo | 59 | 85 | 55 | 6 | 5 | 4 | - | 9 | 9+ | 3000 | 0 | * |
| Birmingham | 13·3 | -14 | SSW | 3 | c | 59 | 85 | 55 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Upper Heyford | 15·1 | -12 | SSW | 1 | Zo | 60 | 92 | 57 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Ross-on-Wye | 13·2 | -12 | SSW | 1 | c | 59 | 85 | 54 | 6 | 5 | - | - | 10 | 10 | 3000 | 1 | * |
| Hartland Point | 12·9 | -16 | SW | 1 | df | 57 | 97 | 56 | 2 | 5 | - | - | 10 | 10 | <150 | 1 | 2 |
| Bristol | 14·0 | -10 | S | 2 | c | 61 | 85 | 57 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| Portland Bill | 13·8 | -6 | S | 2 | o | 60 | 92 | 58 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Plymouth | 13·7 | -14 | SW | 2 | df | 59 | 97 | 59 | 2 | 5 | - | - | 10 | 10 | <150 | 1 | 1 |
| The Lizard | 13·7 | -2 | WN | 3 | c | 55 | 97 | 55 | 7 | 5 | 2 | - | 9 | 10 | 1000 | 1 | 3 |
| Scilly (St. Mary's) | 14·4 | -8 | SW | 2 | d | 56 | 92 | 54 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 12·9 | -10 | SW | 4 | c | 56 | 92 | 53 | 7 | 5 | - | - | 10 | 10 | 2000 | 0 | 3 |
| Holyhead (Valley) | 11·5 | -14 | SW | 5 | c | 56 | 85 | 51 | 8 | 5 | 7 | - | 7-8 | 10 | 2000 | 1 | 3 |
| Chester (Sealand) | 12·0 | -12 | WSW | 2 | Zo | 58 | 75 | 50 | 6 | 5 | - | - | 9+ | 9+ | 3000 | 0 | * |
| Manchester | 12·0 | -14 | SE | 3 | c | 57 | 85 | 53 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | * |
| Spurn Head | 14·1 | 0 | SSW | 2 | c | 58 | 92 | 56 | 5 | 5 | 2 | - | 7-8 | 10 | 1500 | 0 | 2 |
| Catterick | 11·2 | -16 | S | 2 | Zo | 57 | 75 | 49 | 5 | 6 | 7 | - | 4-6 | 10 | 1500 | 0 | * |
| Tynemouth | 11·2 | -16 | WSW | 2 | Zo | 57 | 65 | 46 | 5 | 8 | - | - | 9 | 9 | 2500 | 1 | 2 |
| St. Abbs Head | 07·7 | -10 | SSW | 2 | c-bc | 54 | 85 | 48 | 7 | 5 | 4 | - | 7-8 | 7-8 | 2500 | 0 | 3 |
| Leuchars | 06·3 | -20 | SW | 1 | c | 54 | 75 | 45 | 7 | 5 | 7 | 8 | 2-3 | 9+ | 3000 | 0 | * |
| Renfrew (Abbots I.) | 06·8 | -18 | SSW | 4 | c | 55 | 75 | 47 | 7 | 5 | 2 | - | 7-8 | 10 | 2200 | 0 | * |
| Eskdalemuir | 08·2 | -16 | SSW | 3 | Zo | 51 | 92 | 48 | 6 | 5 | - | - | 10 | 10 | 1100 | 0 | * |
| Point of Ayre | 09·5 | -12 | SWW | 4 | c | 55 | 85 | 51 | 8 | 8 | 2 | - | 9+ | 10 | 3000 | 0 | 3 |
| Tiree | 03·1 | -6 | W | 4 | roro | 50 | 97 | 50 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 5 |
| Stornoway | 00·3 | +8 | SSW | 3 | c/f | 50 | 85 | 46 | 8 | 5 | 7 | - | 9 | 10 | 1500 | 1 | 2 |
| Dalwhinnie | 04·8 | -20 | S | 3 | c | 49 | 85 | 45 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| Aberdeen | 05·3 | -18 | W | 1 | c | 54 | 65 | 43 | 6 | - | 7 | - | 0 | 10 | - | 1 | |
| Wick | 02·8 | -6 | SW | 4 | iro | 53 | 85 | 49 | 9 | 5 | 7 | - | 2-3 | 9+ | 4000 | 1 | * |
| Sumburgh | 01·6 | -12 | SWS | 6 | roro | 53 | 92 | 50 | 7 | 5 | 2 | - | 9+ | 10 | 3500 | 1 | 4 |
| Blacksod Point | 02·6 | +2 | W | 3 | rr | 50 | 92 | 48 | 7 | - | 2 | - | 10 | 10 | 800 | 2 | 2 |
| Malin Head | 05·0 | -2 | SWS | 4 | rr | 52 | 92 | 50 | 6 | - | 2 | - | 10 | 10 | 460 | 1 | 4 |
| Aldergrove | 07·4 | -18 | SW | 3 | c | 54 | 85 | 48 | 7 | 5 | 2 | - | 7-8 | 10 | 2000 | 1 | * |
| *Birr Castle | 08·3 | -14 | SSW | 3 | c | 56 | 85 | 52 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 | 1 | * |
| Valentia Obsy. | 10·1 | -6 | NW | 4 | rr | 52 | 97 | 50 | 6 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 4 |
| Roches Point | 10·9 | -14 | SW | 3 | c | 56 | 92 | 54 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 7th (39) | Weather 13h.—18h. 7th (40) | Weather 18h. 7th to 1h. 8th (41) | Weather 1h.—7h. 8th (42) |
|---|---|---|---|---|
| London (Kew) | cidoff | cidocmo | cror ro | rorocmo |
| Croydon | ofromcmo | idozo | cmoidroro | cmoircmo |
| S. Farnborough | idofeomo | omocido | crorrom | crobcmoc |
| Boscombe Down | cmod | cidomom | cmocrrmo | crrnoidoc |
| Thorney Island | FdoF | fomrr | rorrmoro | roro cmo |
| Lympne | ofecmob | cmoirocmo | cmororom | ciromm |
| Manston | omobczo | bzo cmo | crrrom | croromm |
| Shoeburyness | odomo | bcc | cmororor | crrcmo |
| Felixstowe | ofeidoofc | ofedbdbbc | mocrr., rrm | ocrrmoc |
| Gorleston | om do | bcmof | ofmrrro | oro iro |
| Mildenhall | omocmo | cmo odod | dcmcmcrm | mcrorom |
| Cranwell | cidomofcmo | cmo | cmo | cromcmo |
| Birmingham | foc | c | comro | om |
| Upper Heyford | dodoformo | z | dodoidomo | roro idomo |
| Ross-on-Wye | ofomzo | c | c | c q p |
| Hartland Point | c | cdodofo | dodode | cpirc |
| Bristol | omcmoc | c | cmodoro | bbcebcid |
| Portland Bill | orf | offo | o | cir |
| Plymouth | cidomo | cfdodo | iddocmo | crorom |
| The Lizard | ffe | ffec | id prc | id prc |
| Scilly (St. Mary's) | offec | c | idobc | eidopoc |
| Guernsey | | | | |
| Pembroke | c | c | cprbc | crrbc |
| Holyhead (Valley) | c | ciroc | ciroc | roro cbc |
| Chester (Sealand) | cmozo | czobc | czomo | cmorr |
| Manchester | cmom | czo | ciromo | iroro |
| Spurn Head | cmo | cmo | cmo | c |
| Catterick | cfcmcmo | cmo | czobcmo | cmciro |
| Tynemouth | cmo | cmo | cmobc | cp |
| St. Abbs Head | cmo | cmo | cbcmo | bccrmo |
| Leuchars | cmoc | c | cmocidoc | cidocirb |
| Renfrew (Abbots I.) | c | c | cmororo | cmoprc |
| Eskdalemuir | cmo | czo | ccr | crrbc |
| Point of Ayre | iroc | c | cbcdd | roro cbc |
| Tiree | d | orr | orcbc | cbc |
| Stornoway | rr | crroro | cpr | cpr pt |
| Dalwhinnie | c | c | * | cprbc |
| Aberdeen | czo | c | czoc | crrc |
| Wick | c | ciro | crororo | cbc |
| Sumburgh | croroiro | croroo | crrmo | crorormo |
| Blacksod Point | r | r | bc | pr |
| Malin Head | c | r | r | pr |
| Aldergrove | c | c | crorocmo | cmdbcb |
| *Birr Castle | c | r | • | pr |
| Valentia Obsy. | pr | r | pr | pr |
| Roches Point | d | r | r | rc |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 8th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England | Moderate Southwest wind, becoming squally for a time and veering Westerly; cloudy with occasional rain at first; bright intervals and scattered showers later; rather cool. |
| 3 E. Midlands; 4 W. Midlands | Moderate Westerly winds; bright periods; some scattered showers; rather cool. |
| 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England | Fresh or strong squally Westerly winds; moderating later; occasional thundery showers and bright intervals; rather cool. |
| 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland | As 3-4. |
| 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | As 5-8. |
| 16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland | As 5-8. |

### GENERAL INFERENCE

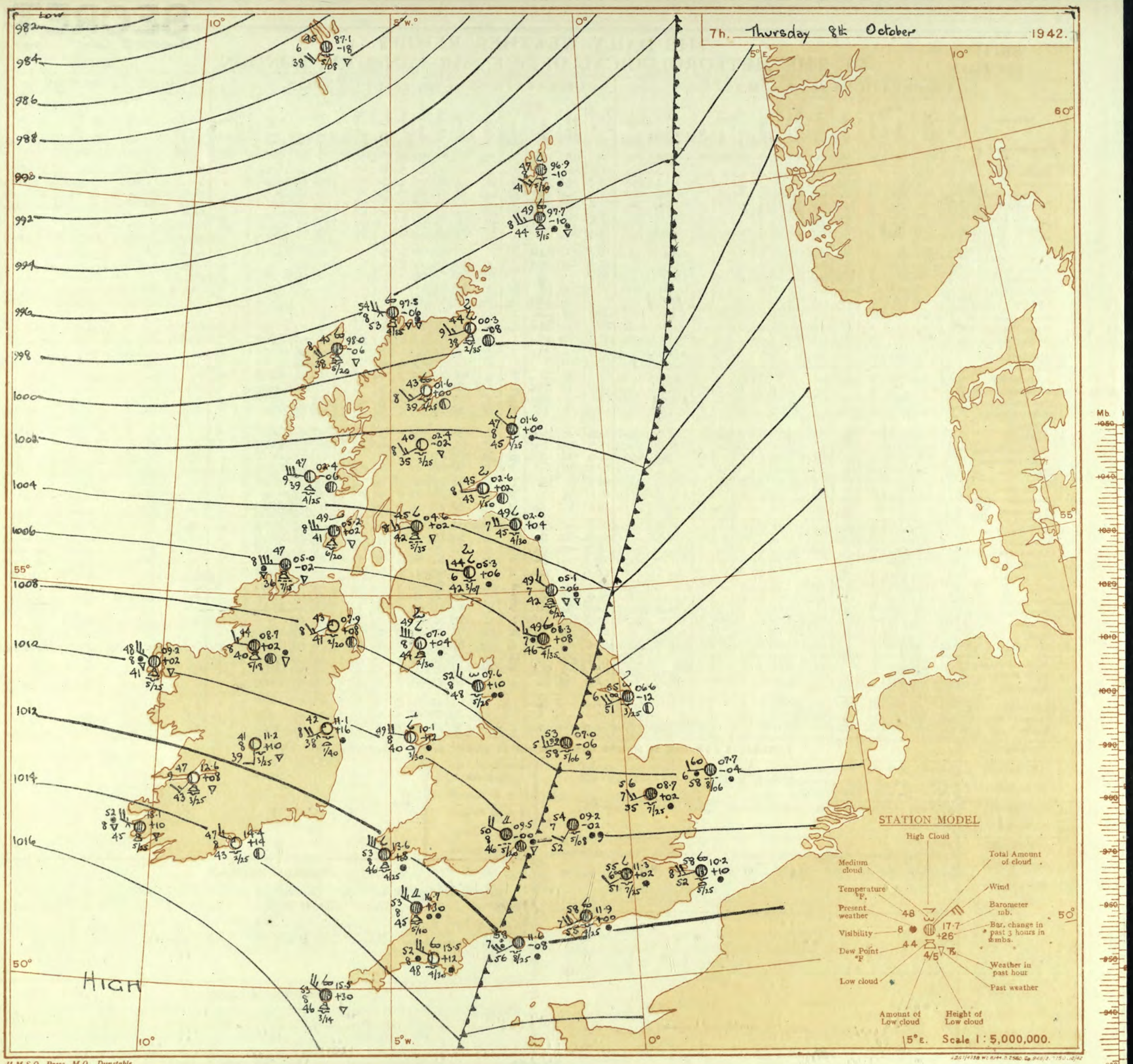
A very deep depression over Iceland is moving slowly east, and an associated trough is moving eastwards across England. Except in the extreme East and Southeast at first where weather will be dull with occasional rain, there will be showers and bright intervals in all districts, with temperatures rather below average.

### FURTHER OUTLOOK

Showery westerly type.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

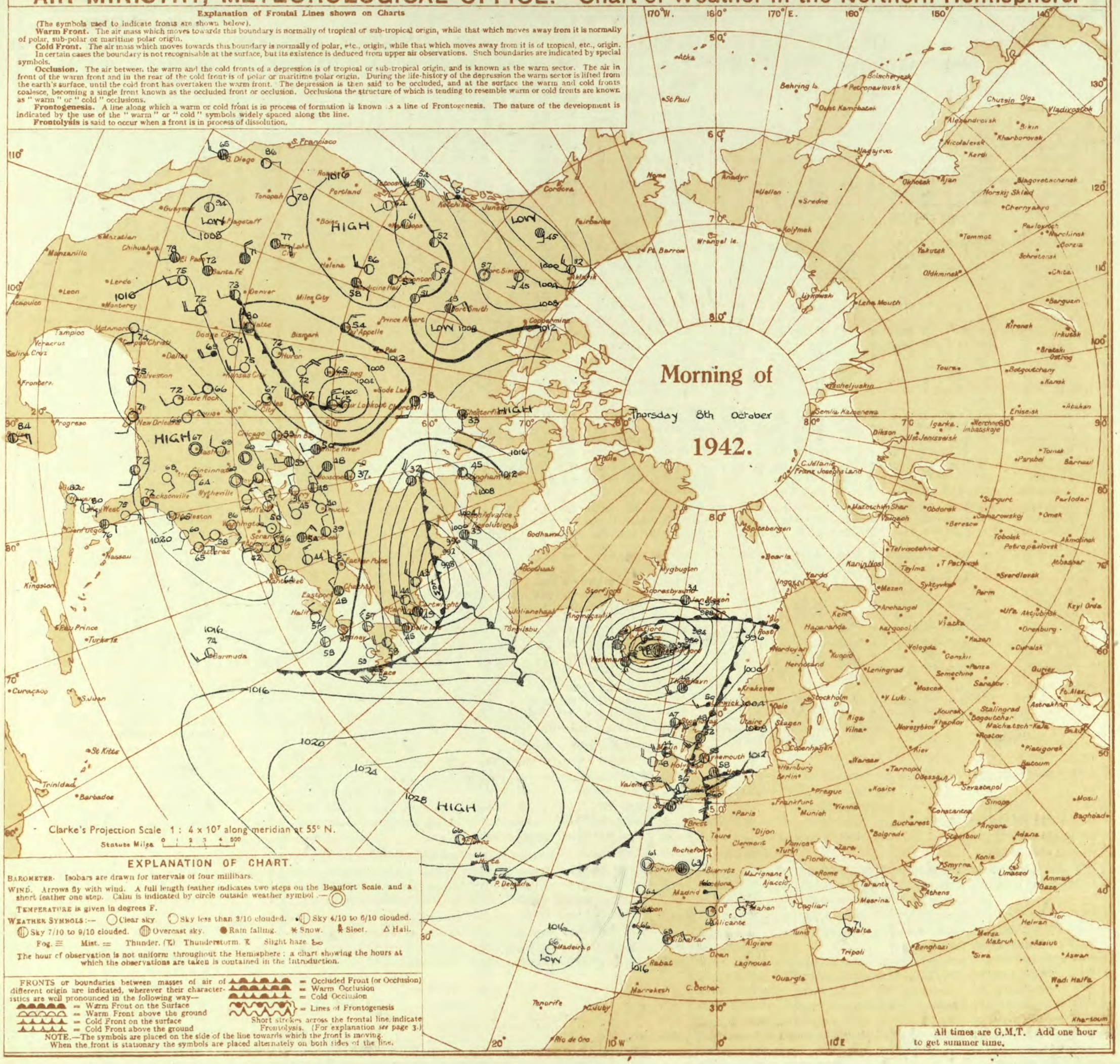
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Thursday 8th October 1942

No. 29,540.

## OBSERVATIONS at 1 hr. G.M.T. 8th October

| 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 | * | * | * | * | * | 59 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 12·1 | −18 | S | 3 | r₀r₀ | 60 | 97 | 59 | 5 | 5 | – | – | 7-8 | 10 | 700 |
| | S. Farnborough | 226 | 10·8 | −16 | SW | 2 | r₀r₀ | 60 | 97 | 59 | 5 | 5 | – | – | 10 | 10 | 2500 |
| | Boscombe Down | 417 | 12·3 | −6 | SW | 3 | rr | 58 | 97 | 58 | 6 | 6 | 2 | – | 9+ | 10 | 600 |
| | Thorney Island | 10 | 11·9 | −14 | SW'W | 3 | r₀r₀ | 60 | 97 | 60 | 6 | 5 | – | – | 10 | 10 | 600 |
| | Lympne | 283 | 11·2 | −10 | W | 2 | ir₀ | 61 | 97 | 61 | 4 | 5 | 2 | – | 9+ | 10 | 400 |
| | Manston | 154 | 11·5 | −26 | SSE | 2 | r₀r₀ | 61 | 97 | 61 | 4 | 6 | 2 | – | 9 | 10 | 600 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 11·3 | −26 | S'E | 2 | rr | 60 | 97 | 60 | 5 | 5 | – | – | 10 | 10 | 1700 |
| | Gorleston | 5 | 11·7 | −18 | SW'S | 3 | r₀r₀ | 59 | 97 | 58 | 5 | 6 | – | – | 10 | 10 | 800 |
| | Mildenhall | 15 | 10·5 | −22 | S'E | 3 | r₀r₀ | 60 | 97 | 59 | 4 | 5 | – | – | 4-6 | 10 | 900 |
| | Cranwell | 203 | 09·5 | −18 | S'W | 2 | z₀ | 56 | 92 | 54 | 5 | 5 | – | – | 10 | 10 | 3200 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 10·3 | −24 | WSW | 2 | id₀ | 58 | 97 | 58 | 5 | 5 | – | – | 9+ | 10 | 400 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 11·1 | −12 | WSW | 4 | c | 57 | 97 | 55 | 7 | 5 | 2 | – | 7-8 | 10 | 1500 |
| | Bristol | 209 | 12·3 | −4 | WNW | 3 | c | 55 | 97 | 54 | 6 | 5 | 4 | – | 9 | 9+ | 3800 |
| | Portland Bill | 32 | 12·5 | −2 | S | 4 | o | 58 | 92 | 57 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth | 82 | 13·3 | −6 | W | 4 | c-bc | 57 | 97 | 57 | 6 | 5 | – | – | 7-8 | 7-8 | 3000 |
| | The Lizard | 240 | 13·0 | −8 | SW | 3 | c | 56 | 97 | 56 | 8 | 8 | 2 | – | 9 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 13·1 | −6 | W | 4 | c | 57 | 92 | 55 | 7 | 5 | – | – | 9 | 9 | 1500 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 10·9 | −8 | SW | 5 | b-bc | 56 | 97 | 54 | 7 | 2 | – | – | 2-3 | 2-3 | 2500 |
| 7 | Holyhead (Valley) | 32 | 08·4 | −14 | SW | 5 | DR | 55 | 97 | 55 | 6 | 6 | 2 | – | 7-8 | 10 | 800 |
| | Chester (Sealand) | 16 | 09·2 | −28 | SSW | 2 | z₀ | 56 | 85 | 50 | 5 | 5 | 2 | – | 9 | 9+ | 3500 |
| 8 | Manchester | 235 | 09·8 | −12 | S'E | 3 | m | 54 | 92 | 52 | 4 | 5 | – | – | 10 | 10 | 1500 |
| 10 | Spurn Head | 29 | 10·1 | −26 | WSW | 2 | c | 58 | 85 | 54 | 5 | 5 | 2 | – | 7-8 | 10 | 2500 |
| | Catterick | 175 | 08·2 | −14 | SW | 3 | z₀ | 55 | 85 | 49 | 6 | 5 | – | – | 4-6 | 4-6 | 3200 |
| | Tynemouth | 108 | 07·7 | −12 | SW | 3 | bc | 55 | 75 | 47 | 6 | 8 | – | – | 4-6 | 4-6 | 2500 |
| 11 | St. Abbs Head | 280 | 03·5 | −24 | SSW | 4 | bc | 53 | 92 | 51 | 7 | 5 | – | – | 4-6 | 4-6 | 2500 |
| | Leuchars | 36 | 02·9 | −18 | SW | 2 | c/d | 53 | 92 | 51 | 7 | 5 | 2 | – | 7-8 | 10 | 1500 |
| 12 | Renfrew (Abbots I.) | 19 | 05·1 | +2 | W | 2 | r₀r₀ | 48 | 92 | 45 | 5 | 5 | – | – | 4-6 | 10 | 1500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 06·0 | −16 | W'S | 5 | DD | 54 | 97 | 54 | 6 | → | 2 | – | 10 | 10 | 1500 |
| 13A | Tiree | 22 | 04·0 | 0 | W | 3 | b-bc | 48 | 75 | 40 | 9 | 5 | – | – | 2-3 | 2-3 | 2000 |
| 13B | Stornoway | 80 | 99·8 | +10 | SSW | 4 | c-bc/pr | 47 | 85 | 43 | 7 | 6 | 7 | – | 4-6 | 7-8 | 2000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 02·2 | −14 | S'W | 5 | c | 52 | 92 | 50 | 7 | 5 | 2 | – | 9 | 10 | 1600 |
| | Wick | 114 | 02·1 | −2 | SW | 4 | ir₀ | 48 | 92 | 46 | 8 | 5 | – | – | 10 | 10 | 3300 |
| 16 | Sumburgh | 19 | 00·0 | −6 | SSW | 4 | r₀r₀ | 51 | 97 | 50 | 6 | 5 | – | – | 10 | 10 | 1000 |
| 17 | Blacksod Point | 18 | 09·0 | −4 | WNW | 4 | b-bc | 48 | 85 | 44 | 8 | 3 | – | – | 2-3 | 2-3 | 2500 |
| 18 | Malin Head | 84 | 05·7 | +2 | W | 4 | bc | 49 | 75 | 41 | 8 | 6 | – | – | 4-6 | 4-6 | 2500 |
| | Aldergrove | 268 | 07·5 | +6 | W | 2 | o/r | 48 | 97 | 46 | 6 | 5 | – | – | 10 | 10 | 1500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 13·3 | +8 | WNW | 4 | b/pr | 52 | 75 | 44 | 8 | 8 | – | – | 1 | 1 | 1500 |
| | Roches Point | 22 | 11·5 | +14 | NW | 4 | c | 51 | 92 | 49 | 8 | 7 | 2 | – | 4-6 | 9 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 8th October

| 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) | 10·3 | +4 | SSW | 3 | z₀ | 56 | 92 | 54 | 6 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Croydon | 11·3 | +2 | SW | 2 | z₀ | 55 | 85 | 51 | 6 | 5 | 4 | – | 9+ | 9+ | 2000 | 1 | * |
| S. Farnborough | 10·8 | +2 | SW'W | 3 | c | 55 | 92 | 53 | 7 | 5 | 7 | – | 4-6 | 9+ | 1400 | 1 | * |
| Boscombe Down | 11·0 | −8 | S'W | 3 | c | 54 | 97 | 54 | 7 | 5 | 7 | 2 | 7-8 | 9+ | 2000 | 1 | * |
| Thorney Island | 11·9 | 0 | SW'W | 4 | c | 58 | 92 | 55 | 7 | 5 | 7 | – | 4-6 | 9 | 2500 | 1 | * |
| Lympne | 11·7 | +10 | WSW | 3 | c | 56 | 92 | 54 | 8 | 5 | – | – | 10 | 10 | 7000 | 1 | §5 |
| Manston | 10·2 | +10 | W'S | 4 | c | 58 | 85 | 52 | 8 | 7 | 7 | – | 7-8 | 9+ | 2500 | 1 | * |
| Shoeburyness | 10·6 | +6 | W'S | 3 | c | 57 | 85 | 53 | 5 | 5 | – | – | 9 | 9 | 4000 | 1 | * |
| Felixstowe | 08·8 | +2 | SW | 4 | c | 60 | 92 | 57 | 7 | 5 | – | – | 9 | 9+ | 2500 | 1 | 2 |
| Gorleston | 07·7 | −4 | W | 2 | ir₀ | 60 | 97 | 58 | 6 | 6 | – | – | 10 | 10 | 600 | 1 | 3 |
| Mildenhall | 08·7 | +2 | SW'W | 3 | c | 56 | 92 | 55 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Cranwell | 07·2 | −6 | SW'W | 4 | z₀ | 55 | 85 | 52 | 6 | 5 | – | 5 | 4-6 | 7-8 | 4500 | 1 | * |
| Birmingham | 08·2 | −8 | SW | 3 | ir | 52 | 92 | 50 | 4 | 6 | – | – | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 09·2 | −2 | SW | 3 | c/d | 54 | 92 | 52 | 7 | 5 | – | – | 7-8 | 10 | 800 | 1 | * |
| Ross-on-Wye | 09·5 | 0 | NWW | 4 | c/pr | 50 | 85 | 46 | 8 | 6 | 2 | – | 7-8 | 10 | 2000 | 1 | * |
| Hartland Point | 16·7 | +30 | NW | 5 | c/r | 53 | 75 | 45 | 8 | 8 | 2 | – | 7-8 | 10 | 1000 | 1 | 4 |
| Bristol | 10·9 | −6 | SSW | 3 | id | 55 | 92 | 53 | 6 | 6 | – | – | 9+ | 9+ | 800 | 1 | * |
| Portland Bill | 11·6 | −8 | SW | 4 | ir | 58 | 92 | 56 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | 4 |
| Plymouth | 13·5 | +12 | NW | 5 | ir | 52 | 85 | 48 | 8 | 5 | 7 | – | 4-6 | 9+ | 3000 | 1 | 4 |
| The Lizard | 14·2 | +20 | NW | 4 | c/pr | 52 | 92 | 50 | 8 | 8 | 2 | – | 7-8 | 9+ | 1000 | 1 | 5 |
| Scilly (St. Mary's) | 15·5 | +30 | NW | 5 | c | 53 | 75 | 46 | 8 | 8 | 7 | – | 7-8 | 9+ | 1400 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 13·6 | +8 | NW'W | 6 | c-bc | 53 | 75 | 46 | 8 | 8 | 4 | – | 4-6 | 7-8 | 2500 | 1 | 4 |
| Holyhead (Valley) | 10·1 | +12 | W'N | 4 | bc | 49 | 75 | 40 | 8 | 1 | 4 | 8 | 2-3 | 4-6 | 3000 | 1 | 3 |
| Chester (Sealand) | 09·4 | +18 | N | 3 | c/r | 50 | 85 | 45 | 6 | 8 | 2 | – | 7-8 | 9+ | 3000 | 1 | * |
| Manchester | 00·4 | +10 | W'S | 3 | r₀r₀ | 48 | 92 | 46 | 6 | 5 | 7 | – | 7-8 | 9+ | 1500 | 1 | * |
| Spurn Head | 06·6 | −12 | SW'W | 4 | z₀ | 55 | 85 | 51 | 6 | 5 | 3 | 4 | 2-3 | 7-8 | 2500 | 0 | 3 |
| Catterick | 06·3 | +8 | WNW | 3 | ir₀ | 49 | 92 | 46 | 7 | 5 | 7 | – | 4-6 | 10 | 3500 | 1 | 2 |
| Tynemouth | 05·1 | −6 | NW | 3 | c/pr | 49 | 75 | 45 | 7 | 8 | – | – | 9 | 9 | 2200 | 1 | 2 |
| St. Abbs Head | 02·0 | +4 | W | 4 | c-bc | 49 | 85 | 45 | 7 | 5 | 4 | – | 4-6 | 7-8 | 3000 | 0 | 4 |
| Leuchars | 02·6 | +2 | W'S | 2 | bc | 45 | 92 | 43 | 8 | 5 | 7 | 9 | Tr | 4-6 | 5000 | 1 | * |
| Renfrew (Abbots I.) | 04·6 | +2 | WSW | 3 | c-bc | 45 | 85 | 42 | 8 | 9 | 4 | – | 7-8 | 7-8 | 3500 | 1 | * |
| Eskdalemuir | 05·3 | +6 | W'N | 2 | bc | 44 | 92 | 42 | 6 | 5 | 4 | 9 | 2-3 | 4-6 | 700 | 1 | * |
| Point of Ayre | 07·0 | +4 | WNW | 6 | bc | 49 | 85 | 44 | 8 | 3 | 4 | 9 | 1 | 2-3 | 3000 | 1 | 4 |
| Tiree | 02·4 | −6 | W | 6 | bc | 47 | 75 | 39 | 9 | 8 | – | – | 4-6 | 4-6 | 2500 | 0 | 5 |
| Stornoway | 98·0 | −6 | SW | 4 | c | 45 | 85 | 38 | 8 | 8 | 7 | – | 7-8 | 9+ | 2000 | 1 | 3 |
| Dalwhinnie | 02·4 | −2 | SW | 3 | b-bc | 40 | 85 | 35 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | * |
| Aberdeen † | 01·6 | 0 | NW | 1 | c-bc | 47 | 92 | 45 | 8 | 5 | 5 | – | Tr | 7-8 | 2500 | 1 | 1 |
| Wick | 00·3 | −8 | WSW | 3 | bc | 44 | 85 | 38 | 9 | 8 | 5 | 6 | 1 | 4-6 | 3500 | 1 | * |
| Sumburgh | 97·7 | −10 | SW'W | 5 | c/pr | 49 | 85 | 44 | 8 | 2 | 7 | – | 2-3 | 9+ | 1500 | 1 | 4 |
| Blacksod Point | 09·2 | +2 | WNW | 5 | pr | 48 | 75 | 41 | 8 | 8 | – | – | 7-8 | 7-8 | 2500 | 2 | 4 |
| Malin Head | 05·0 | −2 | W | 7 | pr | 47 | 65 | 36 | 8 | 9 | – | – | 9+ | 9+ | 1500 | 1 | 6 |
| Aldergrove | 07·9 | +8 | SW'W | 3 | b | 43 | 92 | 41 | 8 | 5 | – | – | 1 | 1 | 2000 | 1 | * |
| Birr Castle | 11·2 | +10 | S | 2 | b-bc | 41 | 92 | 39 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | * |
| Valentia Obsy. | 15·1 | +10 | W'N | 5 | pr | 52 | 75 | 45 | 8 | 3 | – | – | 7-8 | 7-8 | 2500 | 1 | 5 |
| Roches Point | 14·4 | +14 | W'N | 3 | b | 47 | 85 | 43 | 8 | 5 | – | – | 1 | 1 | 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 7th. Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 63 | 55 | 52 | Tr | 10 | 0·0 |
| Croydon | 65 | 55 | 51 | Tr | 1 | 0·4 |
| S. Farnborough | 63 | 54 | 50 | 0·1 | 6 | 0·0 |
| Boscombe Down | 60 | 54 | 50 | Tr | 1 | 0·0 |
| Thorney Island | 63 | 57 | 53 | 2 | 4 | * |
| Lympne | 69 | 56 | 55 | Tr | 3 | 3·0 |
| Manston | 71 | 58 | 58 | Tr | 2 | 4·2 |
| Shoeburyness | 71 | 57 | 55 | – | 6 | 3·0 |
| Felixstowe | 65 | 59 | 58 | 0·2 | 3 | 2·1 |
| Gorleston | 62 | 59 | 56 | Tr | 5 | 0·1 |
| Mildenhall | 63 | 56 | 55 | Tr | 12 | 0·0 |
| Cranwell | 63 | 53 | 49 | – | Tr | 0·5 |
| Birmingham | 61 | 52 | 49 | – | 1 | 0·3 |
| Upper Heyford | 60 | 52 | 46 | 0·1 | 1 | * |
| Ross-on-Wye | 63 | 50 | 48 | – | 2 | 0·6 |
| Hartland Point | 58 | 49 | 48 | 1 | 3 | 0·0 |
| Bristol | 65 | 51 | 50 | – | 4 | 1·4 |
| Portland Bill | 60 | 56 | * | 0·1 | 0·3 | * |
| Plymouth | 62 | 52 | 50 | 0·5 | 1 | 0·0 |
| The Lizard | 59 | 51 | * | 0·5 | 1 | 0·0 |
| Scilly (St. Mary's) | 59 | 52 | * | 0·5 | 2 | 0·0 |
| Guernsey | | | | | | |
| Pembroke | 58 | 52 | * | – | 3 | 0·0 |
| Holyhead (Valley) | 59 | 48 | 47 | Tr | 3 | * |
| Chester (Sealand) | 63 | 49 | 47 | – | 1 | 3·1 |
| Manchester | 59 | 48 | 41 | – | 1 | * |
| Spurn Head | 66 | 54 | * | – | Tr | 0·3 |
| Catterick | 60 | 49 | 47 | – | 0·1 | 1·2 |
| Tynemouth | 62 | 49 | 45 | – | 0·3 | * |
| St. Abbs Head | 60 | 49 | * | – | Tr | * |
| Leuchars | 61 | 45 | 40 | – | Tr | 4·1 |
| Renfrew (Abbots I.) | 57 | 45 | 41 | – | 3 | 1·9 |
| Eskdalemuir | 55 | 43 | 41 | – | 3 | 0·3 |
| Point of Ayre | 60 | 48 | * | Tr | 2 | 1·5 |
| Tiree | 54 | 46 | * | 7 | 1 | 0·0 |
| Stornoway | 53 | 43 | * | 8 | 1 | 0·0 |
| Dalwhinnie | 51 | 39 | 32 | – | 4 | 1·7 |
| Aberdeen † | 56 | 47 | 42 | – | 4 | 1·8 |
| Wick | 54 | 43 | 37 | 0·2 | 0·4 | * |
| Sumburgh | 53 | 48 | 45 | 2 | 10 | 0·0 |
| Blacksod Point | 56 | 44 | * | 10 | 3 | * |
| Malin Head | 55 | 52 | 45 | 2 | 5 | 0·0 |
| Aldergrove | 57 | 42 | 39 | – | 3 | 2·7 |
| Birr Castle | 58 | 41 | 37 | Tr | 2 | 1·1 |
| Valentia Obsy. | 57 | 49 | 43 | 2 | 2 | 0·0 |
| Roches Point | 58 | 47 | * | 1 | 4 | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 7th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 8th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 57 | 02864 | 16427 | 52 | 62755 | 16467 | 5- | 03768 | 21368 | 27 | 02754 | 22426 |
| 115 | | | | | | | 52 | 64735 | 20468 | 37 | 25844 | 57486 |
| 203 | | | | | | | 50 | 01944 | 20524 | | | |
| 206 | 57 | 02855 | 52528 | 89 | 18327 | 03254 | 52 | 22856 | 22360 | 57 | 01852 | 20313 |
| 210 | 57 | 02961 | 17427 | | | | 5- | 61865 | 20368 | 86 | 01962 | 18263 |
| 220 | 62 | 66426 | 20668 | | | | | | | 80 | 81756 | 24516 |
| 230 | 5- | 51648 | 18368 | 62 | 58636 | 18263 | 5- | 22737 | 18268 | 3- | 01954 | 20484 |
| 245 | 19 | 02753 | 20427 | 57 | 02763 | 17227 | 52 | 05655 | 16327 | 55 | 02951 | 22265 |
| 260 | | | | 57 | 02864 | 51328 | 5- | 62568 | 51428 | 54 | 02763 | 55224 |
| 278 | 13 | 02841 | 18427 | 52 | 02857 | 16328 | 02 | 64638 | 26468 | 83 | 01853 | 22463 |
| 279 | 57 | 05655 | 52467 | 57 | 05653 | 52526 | 52 | 52645 | 51558 | 53 | 01754 | 22365 |
| 285 | 23 | 05644 | 22425 | 57 | 02635 | 26527 | | | | 27 | 25634 | 26588 |
| 288 | 03 | 05590 | 18325 | 57 | 05654 | 16228 | 5- | 05665 | 16425 | 52 | 62656 | 22368 |
| 575 | 51 | 02847 | 20328 | 52 | 58626 | 20458 | 50 | 01852 | 21212 | 3- | 25845 | 24325 |
| 301 | 5- | 08468 | 17228 | 3- | 05657 | 16227 | 57 | 51654 | 17228 | 53 | 22855 | 28366 |
| 321 | 5- | 05667 | 16227 | 5- | 05657 | 20227 | 5- | 45168 | 17248 | 5- | 51658 | 22328 |
| 299 | 5- | 05538 | 20348 | 50 | 08447 | 20217 | 5- | 05646 | 20326 | 50 | 05545 | 20215 |
| 292 | 57 | 08455 | 14127 | 50 | 08464 | 18226 | 5- | 05558 | 18128 | 57 | 62645 | 23367 |
| 310 | -- | 02638 | 20348 | -- | 02628 | 24328 | | | | -- | 63628 | 24368 |
| 614 | 5- | 05546 | 20248 | | | | 5- | 52468 | 20168 | 5- | 52535 | 22358 |

| III | 13h. G.M.T. 7th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 8th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 5- | 02758 | 18228 | 52 | 51648 | 18358 | 52 | 51645 | 20468 | 26 | 01852 | 26325 |
| 334 | -- | 05646 | 20217 | -- | 03648 | 18428 | | | | -- | 03647 | 22228 |
| 340 | 7- | 02757 | 22327 | 53 | 02665 | 18326 | 5- | 05644 | 20257 | 62 | 52634 | 28358 |
| 136 | 5- | 05636 | 18258 | 5- | 08418 | 15258 | 5- | 62548 | 20168 | 53 | 05645 | 20267 |
| 336 | 51 | 02756 | 20328 | 57 | 02756 | 20326 | | | | 57 | 22755 | 28468 |
| 350 | 5- | 57318 | 18158 | 5- | 05645 | 19228 | 5- | 52548 | 20158 | 5- | 02757 | 20327 |
| 368 | 5- | 05548 | 14148 | 52 | 52636 | 00058 | 52 | 08446 | 22358 | 52 | 62636 | 22268 |
| 379 | 5- | 05528 | 16128 | 5- | 02748 | 20328 | 5- | 54428 | 20358 | 5- | 21738 | 20458 |
| 390 | 5- | 43345 | 16157 | 53 | 47363 | 1143 | 5- | 67348 | 18168 | 50 | 05562 | 21362 |
| 382 | 5- | 21638 | 00058 | 57 | 02766 | 00028 | 5- | 05638 | 00048 | 57 | 02844 | 20326 |
| 438 | 5- | 05637 | 20447 | 6- | 67548 | 22348 | -- | 67009 | 22169 | 87 | 61744 | 22527 |
| 430 | -- | 46109 | 18249 | 5- | 67318 | 12268 | 5- | 61628 | 18168 | 57 | 02756 | 2137 |
| 409 | 5- | 52408 | 17258 | 52 | 54407 | 25158 | 5- | 02656 | 20326 | 57 | 21834 | 28458 |

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 8th October. 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 * | cid₀ff | cid₀cm₀ | cr₀rcm₀ |
| Croydon | offomom | id₀z₀ | em₀idem |
| Greenwich | cmm₀ | cm₀ | emir₀c |
| Camden Square | p | cr | * |
| *Kensington | o | cd | * |
| Hampstead | of | b | orbc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. 0·4, Time 7hrs 7th. Min. 0·1, Time 2-7hrs 8th.

| 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 | 63 | 55 | 52 | Tr | 10 | 0·0 | * | * |
| Croydon | 65 | 55 | 51 | Tr | 1 | 0·4 | * | * |
| Greenwich | 67 | 55 | 49 | – | 2·3 | 0·2 | 89 | 81 |
| Westminster | 65 | 56 | 52 | 3·5 | | | 92 | 88 |
| Regents Park | 65 | 65 | 52 | – | 3·0 | * | 78 | 82 |
| Camden Square | 65 | 55 | 51 | – | 5·1 | * | * | 89 |
| Kensington | 64 | 55 | 47 | – | 4·5 | * | 88 | 87 |
| Hampstead | 63 | 52 | 50 | – | 5·9 | * | * | 91 |

SEORET

Page 1 BRITISH SECTION

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

Friday 9th October 1942

No. 29541

## OBSERVATIONS at 13h. G.M.T. 8th October

| 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) | 12·2 | +20 | WNW | 4 | c | 57 | 56 | 41 | 8 | 2 | 3 | 4 | 7-8 | 9 | 2500 |
| | Croydon | 12·1 | +18 | NW | 4 | c-bc | 54 | 45 | 34 | 6 | 2 | 3 | - | 4-6 | 7-8 | 2000 |
| | S. Farnborough | 12·9 | +14 | WNW | 4 | bc | 55 | 55 | 40 | 8 | 8 | 7 | 4 | 4-6 | 4-6 | 2000 |
| | Boscombe Down | 14·2 | +14 | WNW | 6 | bc | 55 | 92 | 53 | 8 | 2 | 6 | 1 | 4-6 | 4-6 | 2500 |
| | Thorney Island | 13·6 | +18 | WNW | 4 | c-bc | 59 | 65 | 48 | 8 | 2 | 7 | 4 | 4-6 | 7-8 | 4000 |
| | Lympne | 11·5 | -2 | WNW | 3 | vv | 55 | 92 | 52 | 6 | 6 | 2 | - | 7-8 | 10 | 800 |
| | Manston | 10·8 | -2 | WNW | 6 | RR | 57 | 97 | 56 | 3 | 6 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11·7 | +10 | NW | 3 | ivo | 52 | 92 | 50 | 8 | 5 | - | - | 10 | 10 | 2000 |
| | Felixstowe | 10·1 | +6 | WNW | 5 | vv | 52 | 86 | 47 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Gorleston | 08·9 | +2 | WSW | 3 | o/r | 52 | 85 | 48 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Mildenhall | 10·3 | +16 | W | 4 | c | 53 | 85 | 49 | 7 | 2 | - | - | 9 | 9 | 1500 |
| | Cranwell | 09·4 | +6 | WNW | 5 | bc | 56 | 55 | 41 | 8 | 2 | 6 | - | 4-6 | 4-6 | 3500 |
| 3 | Birmingham | 11·7 | +10 | W | 4 | bc | 55 | 55 | 40 | 8 | 1 | - | - | 4-6 | 4-6 | 2500 |
| | Upper Heyford | 11·8 | +14 | W | 4 | b-bc | 54 | 55 | 38 | 9 | 2 | 4 | - | 2-3 | 2-3 | 2500 |
| 4 | Ross-on-Wye | 13·2 | +12 | W | 4 | bc | 57 | 55 | 39 | 9 | 2 | - | - | 4-6 | 4-6 | 3500 |
| 5 | Hartland Point | 15·9 | +12 | WNW | 4 | bc | 54 | 55 | 35 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol | 14·8 | +10 | W | 5 | bc | 56 | 55 | 38 | 9 | 2 | - | - | 4-6 | 4-6 | 4000 |
| | Portland Bill | 14·5 | +12 | NW | 5 | c-bc | 56 | 85 | 52 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 17·5 | +18 | NW | 5 | bc | 57 | 65 | 47 | 8 | 8 | - | - | 4-6 | 4-6 | 3000 |
| | The Lizard | 17·9 | +20 | NW | 6 | bc | 55 | 65 | 45 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 19·4 | +14 | WNW | 6 | bc | 58 | 65 | 46 | 8 | 8 | 6 | - | 4-6 | 4-6 | 1500 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 15·0 | +2 | WSW | 7 | cbcq | 54 | 65 | 43 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 11·3 | +2 | W | 6 | c-bc | 53 | 65 | 40 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| | Chester (Sealand) | 10·9 | +10 | W'N | 3 | pro | 54 | 55 | 39 | 8 | 3 | 6 | - | 7-8 | 7-8 | 2500 |
| 8 | Manchester | 10·0 | +10 | WSW | 5 | bo/pv | 52 | 65 | 41 | 8 | 2 | - | - | 4-6 | 4-6 | 2000 |
| 10 | Spurn Head | 08·0 | +4 | WSW | 6 | cq | 55 | 92 | 51 | 7 | 8 | 6 | - | 4-6 | 9+ | 2500 |
| | Catterick | 07·3 | 0 | W | 4 | bc/pv | 55 | 45 | 35 | 9 | 3 | 6 | 3 | 4-6 | 4-6 | 3000 |
| | Tynemouth | 06·3 | 0 | W | 4 | bc | 54 | 45 | 34 | 7 | 2 | 3 | - | 2-3 | 4-6 | 2200 |
| 11 | St. Abbs Head | 03·2 | -2 | W | 4 | bc | 47 | 75 | 41 | 8 | 1 | 4 | - | 4-6 | 4-6 | 3000 |
| | Leuchars | 02·2 | -6 | WSW | 5 | b-bcjp | 52 | 55 | 38 | 7 | 9 | 6 | 3 | 2-3 | 2-3 | 2500 |
| 12 | Renfrew (Abbots I.) | 05·0 | +2 | W'S | 4 | pvo | 45 | 75 | 39 | 9 | 9 | - | - | 7-8 | 9+ | 2000 |
| | Eskdalemuir | 04·6 | -6 | WSW | 6 | cbc/pv | 48 | 65 | 37 | 8 | 8 | - | - | 7-8 | 7-8 | 1600 |
| | Point of Ayre | 07·7 | 0 | NW'W | 6 | pro | 50 | 75 | 42 | 8 | 9 | 6 | - | 4-6 | 7-8 | 5000 |
| 13A | Tiree | 02·5 | +4 | W | 6 | bc | 49 | 75 | 41 | 9 | 8 | 6 | 6 | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 96·6 | -6 | SW | 5 | cbq/ph | 47 | 75 | 43 | 8 | 3 | 6 | 3 | 4-6 | 7-8 | 2500 |
| 15 | Dalwhinnie | 02·0 | -6 | W | 4 | pro | 41 | 75 | 35 | 7 | 8 | - | 1 | 4-6 | 7-8 | 1500 |
| | Aberdeen | 00·2 | -10 | SW | 4 | bc | 53 | 55 | 35 | 9 | 7 | - | 8 | 1 | 1 | 3000 |
| | Wick | 99·0 | -6 | WSW | 4 | bc | 51 | 65 | 40 | 9 | 9 | - | - | 4-6 | 4-6 | 3500 |
| 16 | Sumburgh | 96·3 | -6 | SW | 6 | c/pv | 47 | 85 | 43 | 8 | 9 | - | 3 | 9 | 9+ | 2000 |
| 17 | Blacksod Point | 11·5 | +14 | WNW | 6 | bc | 49 | 55 | 45 | 8 | 3 | - | 3 | 2-3 | 4-6 | 2500 |
| 18 | Malin Head | 05·3 | +6 | W'S | 5 | cbc/ph | 48 | 65 | 37 | 8 | 9 | - | - | 7-8 | 7-8 | 1500 |
| | Aldergrove | 08·3 | +4 | WSW | 5 | PR | 47 | 75 | 39 | 5 | 3 | 7 | - | 9 | 9+ | 2000 |
| 19 | *Birr Castle | 12·5 | +6 | WSW | 3 | c-bc | 48 | 75 | 40 | 8 | 8 | 8 | - | 4-6 | 7-8 | 1500 |
| 20 | Valentia Obsy. | 17·8 | +12 | W'N | 5 | c-bc/pr | 53 | 75 | 45 | 8 | 3 | 6 | - | 7-8 | 7-8 | 2500 |
| | Roches Point | 16·2 | +6 | W | 5 | c-bc | 55 | 65 | 44 | 8 | 3 | - | - | 4-6 | 7-8 | 1500 |

## OBSERVATIONS at 18h. G.M.T. 8th October — 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. 8th (39) | Weather 13h.–18h. 8th (40) | Weather 18h. 8th to 1h. 9th (41) | Weather 1h.–7h. 9th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 14·8 | +14 | SW'W | 3 | zo | 53 | 65 | 40 | 6 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * | idoqrc | cbczo | bczobw | bbcw |
| Croydon | 13·8 | +22 | SW'S | 3 | bc | 51 | 45 | 47 | 6 | 4 | 4 | 1 | Tr | Tr | 3500 | 1 | * | cbc | cmocbmo | bcmobmob | bcmocmo |
| S. Farnborough | 15·2 | +12 | W'S | 3 | c-bc | 51 | 65 | 40 | 8 | 5 | - | - | 7-8 | 7-8 | 1600 | 1 | * | civobcy | bcbybc | cb | bccmocbc |
| Boscombe Down | 16·6 | +14 | W | 4 | PR | 47 | 85 | 43 | 6 | 3 | - | - | 9 | 9 | 800 | 1 | * | cbc | cbccpr | cprobcb | bbcc |
| Thorney Island | 15·9 | +12 | W | 3 | b-bc | 53 | 75 | 46 | 9 | 8 | 4 | - | 2-3 | 2-3 | 4000 | 0 | * | bivoc | cbc bbc | bcb | bbcc |
| Lympne | 14·7 | +12 | W'S | 2 | b | 50 | 75 | 41 | 8 | - | - | - | 0 | 0 | -- | 1 | 4 | cidovovmo | cromob | pbcw | bwbc |
| Manston | 13·6 | +14 | WSW | 3 | zo | 51 | 65 | 41 | 6 | 2 | - | - | Tr | Tr | 2000 | 1 | 3* | civo | cRRqbczo | bczob | bbc |
| Shoeburyness | 14·4 | +20 | W | 2 | b | 51 | 65 | 40 | 7 | - | - | - | 0 | 0 | - | 1 | * | iro | irobcb | | bc |
| Felixstowe | 12·6 | +16 | SW'W | 3 | bc | 53 | 55 | 38 | 8 | 4 | - | - | Tr | Tr | 4000 | 1 | 3 | cidomocforo | crmobcbcy | bybccby | bbc |
| Gorleston | 11·6 | +24 | W | 2 | b-bc | 51 | 75 | 41 | 7 | 3 | - | - | 2-3 | 2-3 | 1800 | 1 | 2 | oiroc | cdobc | bc | b-bc |
| Mildenhall | 12·1 | +8 | WSW | 3 | bc | 49 | 75 | 40 | 7 | 5 | 3 | - | 2-3 | 4-6 | 2000 | 1 | * | cdrmo | cbbc | bcb | bbc |
| Cranwell | 11·2 | +12 | W'N | 4 | bc/pr | 46 | 85 | 40 | 7 | 3 | - | - | 4-6 | 4-6 | 2500 | 1 | * | cvovocmobc | bcyprmo | bcprbcbm | bmob |
| Birmingham | 12·9 | +4 | WSW | 3 | bc | 47 | 92 | 45 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | * | oRrdc | bcctpr | bcro | bc |
| Upper Heyford | 13·2 | +2 | W'S | 4 | b-bc | 49 | 65 | 39 | 8 | 3 | 6 | - | 2-3 | 2-3 | 2500 | 0 | * | civobc | bcyjp | bmo | bbccmo |
| Ross-on-Wye | 14·5 | +10 | W'S | 3 | b | 47 | 75 | 39 | 9 | 8 | - | 3 | 1 | 1 | 3000 | 1 | * | vobcy | bcvy | bccb | bcc |
| Hartland Point | 16·7 | +8 | WNW | 5 | bc | 52 | 75 | 43 | 8 | 2 | 4 | - | 4-6 | 4-6 | 2000 | 1 | 5 | cbcy | bcpr | bcc | bcc pro |
| Bristol | 16·3 | +10 | W | 3 | c | 47 | 85 | 44 | 6 | 9 | 6 | - | 4-6 | 4-6 | 2500 | 1 | * | bc | bcvcpr | bcprobw | bbcirc |
| Portland Bill | 16·4 | +4 | W | 5 | c | 56 | 92 | 54 | 8 | 4 | 4 | - | 4-6 | 9 | 4000 | 1 | | oc | bc | c | bcc |
| Plymouth | 19·0 | +10 | W | 5 | bcjp | 53 | 75 | 45 | 8 | 8 | 6 | - | 4-6 | 4-6 | 3000 | 0 | 4 | ivoidocbc | bcjp | bcpro | bcc |
| The Lizard | 20·1 | +8 | WNW | 6 | bc | 53 | 85 | 47 | 8 | 8 | 6 | - | 4-6 | 4-6 | 1500 | 1 | 5 | bc | cprbc | pr cbc | bccbc |
| Scilly (St. Mary's) | 20·2 | +6 | W'N | 7 | cbcjp | 55 | 65 | 43 | 8 | 8 | 4 | - | 4-6 | 7-8 | 1200 | 1 | 4 | cbc | cbcc | cbcpoc | c |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 15·9 | +8 | W | 6 | c/pr | 53 | 75 | 46 | 8 | 8 | 6 | - | 7-8 | 9+ | 2500 | 1 | | cq | cbcqpr | bcprq | bccq |
| Holyhead (Valley) | 11·9 | +6 | W'N | 6 | bc | 50 | 65 | 38 | 8 | 8 | 6 | - | 2-3 | 4-6 | 3000 | 1 | 4 | bcc | cpro bc | bc | c |
| Chester (Sealand) | 11·2 | +6 | W | 3 | b-bc | 47 | 75 | 38 | 7 | 2 | - | - | 2-3 | 2-3 | 3000 | 1 | * | bccpvo | pr | bczopro | bczoc |
| Manchester | 11·1 | +6 | SSW | 3 | c/pr | 44 | 85 | 41 | 8 | 9 | 6 | - | 7-8 | 9 | 2500 | 1 | * | vvotibv | propr | cprq | bcproc |
| Spurn Head | 09·3 | +2 | W'N | 6 | bcq | 50 | 65 | 40 | 7 | 8 | 4 | - | 2-3 | 4-6 | 2500 | 0 | 4 | cq | bcq | bq | bc |
| Catterick | 08·3 | 0 | W | 2 | bc | 45 | 85 | 39 | 8 | 3 | - | - | 2-3 | 2-3 | 2500 | 1 | * | civobcpvo | bcprob | bprob | b probc |
| Tynemouth | 06·8 | +10 | W | 4 | bc | 45 | 75 | 38 | 8 | 2 | 4 | - | 2-3 | 2-3 | 2800 | 1 | 3 | cpobc | bcptl | bc | bcbbcq |
| St. Abbs Head | 03·2 | 0 | W | 4 | bc | 44 | 75 | 37 | 8 | 5 | 4 | - | 2-3 | 4-6 | 3500 | 0 | 4 | cbc | bcprbc | bcbbc | bcbbc |
| Leuchars | 02·6 | +6 | WSW | 4 | bc | 45 | 65 | 35 | 8 | 4 | 3 | - | 2-3 | 4-6 | 3000 | 0 | * | mcbc | jpybcybcb | bcb | bbcc |
| Renfrew (Abbots I.) | 05·1 | +6 | WSW | 4 | bc/pr | 44 | 75 | 35 | 7 | 3 | 4 | - | 4-6 | 4-6 | 2000 | 1 | * | cprvoqpv | cprbc | cbcpro | cprodod |
| Eskdalemuir | 06·4 | +16 | WSW | 3 | cbc/pr | 39 | 85 | 34 | 8 | 8 | 7 | - | 7-8 | 7-8 | 1400 | 1 | * | phvpv | cprqpro | cpr pro | ciro |
| Point of Ayre | 08·8 | +8 | NNW | 6 | c-bc/pr | 48 | 75 | 41 | 8 | 9 | - | - | 7-8 | 7-8 | 3000 | 1 | 5 | bbcc | cbcpr | cbbc | bccdd |
| Tiree | 02·6 | +8 | WNW | 7 | pr | 46 | 85 | 43 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 | 1 | 6 | pvbc | bccprq | prbctr | cproqpr |
| Stornoway | 96·9 | +6 | WSW | 5 | cbc/pr | 45 | 92 | 43 | 7 | 3 | 7 | - | 4-6 | 7-8 | 2000 | 1 | 3 | cphv | cphr pr | cpr | cp:rr |
| Dalwhinnie | 02·6 | +22 | W | 4 | pr | 38 | 85 | 34 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 | 1 | * | bcpvc | cprq | * | coirc |
| Aberdeen | 00·7 | +6 | WSW | 3 | b-bc | 46 | 65 | 34 | 8 | 1 | 4 | - | Tr | 2-3 | 3000 | 1 | 2 | cbc | bcjpyb | bcq | bcc |
| Wick | 97·9 | -10 | WSW | 4 | bc | 43 | 85 | 38 | 9 | 9 | 3 | 1 | 4-6 | 4-6 | 4000 | 0 | * | bccb | bc | cpro bcq | bc |
| Sumburgh | 94·9 | -6 | SW'W | 6 | pr | 47 | 85 | 41 | 8 | 3 | - | - | 4-6 | 4-6 | 1800 | 1 | 5 | ccpvc | cprobcpro | cproq | cpropro |
| Blacksod Point | 14·6 | +22 | WNW | 6 | bc/pr | 48 | 75 | 40 | 8 | 9 | 6 | - | 4-6 | 4-6 | 2500 | 1 | 5 | bc | pr | c | c |
| Malin Head | 07·1 | +10 | W'N | 7 | c/pr | 46 | 75 | 38 | 8 | 3 | 2 | - | 4-6 | 4-6 | 1500 | 1 | 5 | pr | pr | pr | pr |
| Aldergrove | 10·0 | +16 | W | 4 | bc | 45 | 75 | 36 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2500 | 1 | * | bccpr | cprprhbc | bc | bccroromo |
| *Birr Castle | 15·3 | +20 | WNW | 3 | bc | 46 | 85 | 42 | 8 | 5 | 3 | - | 4-6 | 4-6 | 2500 | 1 | * | pv | pr | * | c |
| Valentia Obsy. | 20·6 | +22 | WNW | 5 | bc | 53 | 65 | 42 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | 5 | pr | pr | pr | pr |
| Roches Point | 18·6 | +20 | NW'N | 5 | bc | 51 | 85 | 47 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 | 1 | 4 | pr | pr | pr | bc |

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

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands | Moderate or fresh Southwest to West wind strong locally on coasts; cloudy; occasional rain; bright intervals later; average temperature. |
| 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England | Fresh Southwest to West wind, strong to gale locally on coasts, rain at first; bright intervals and showers later; average temperature. |
| 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man ↓; 13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland; 15 N.E. Scotland ↓ | Fresh Southwest to West winds gale locally on coasts; rain at first, bright intervals and showers later; average temperature. |
| 16 Orkneys and Shetlands ↓; 17 N. W. Ireland ↓; 18 N. E. Ireland ↓ | As 9-15 |
| 19 S. E. Ireland; 20 S. W. Ireland | As 5-8 |

### GENERAL INFERENCE

A depression South of Iceland is moving East; weather will be mainly cloudy with occasional rain; later there will be bright intervals in most districts with showers in the West and North.

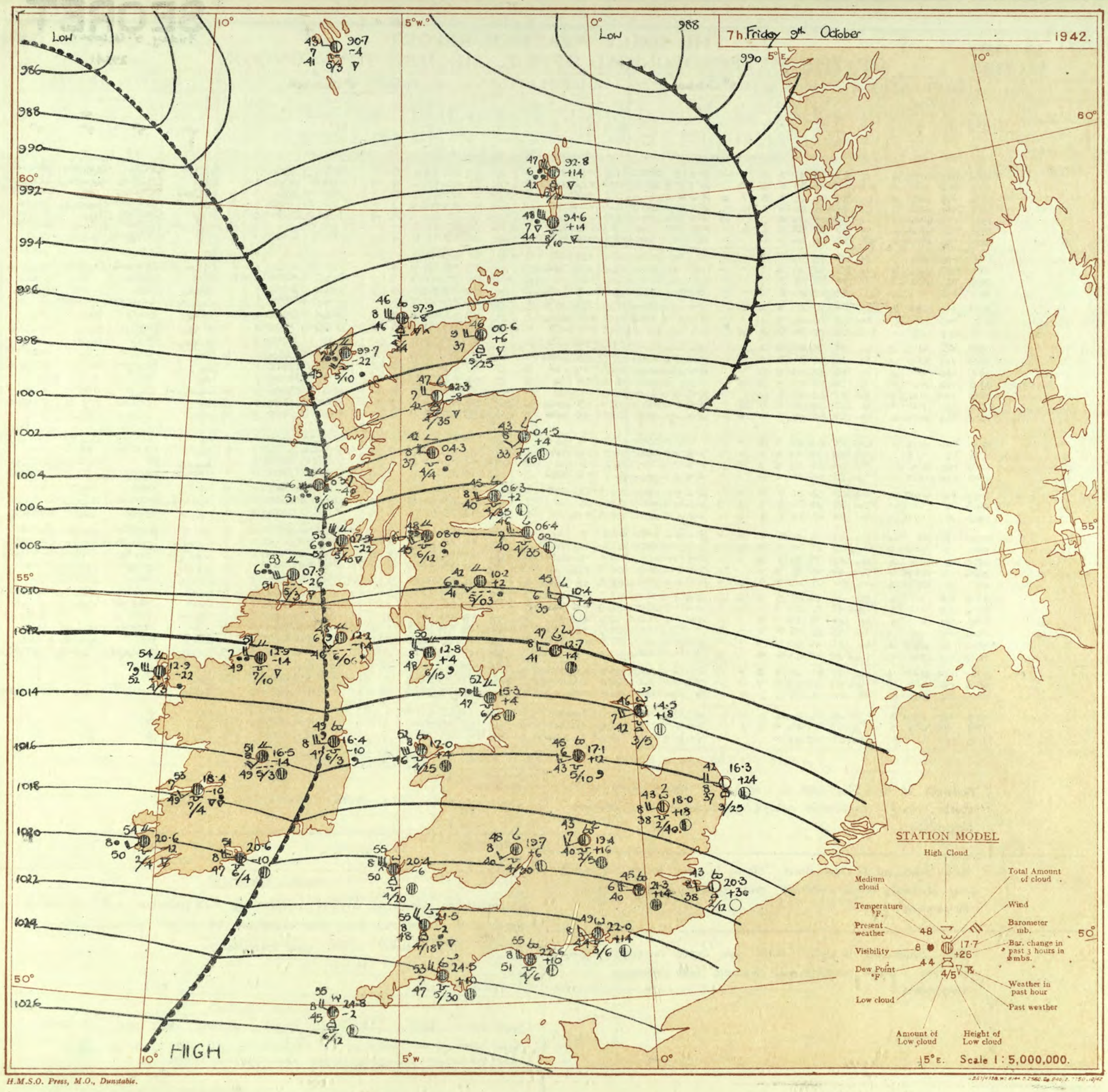
### FURTHER OUTLOOK

Southwest to West winds with bright intervals and local showers.
Gale warning in operation in districts 12, 13 (a & b) 15, 16, 17, and 18.
Time of issue 1920 on 8/10/42 and 0230 on 9/10/42.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

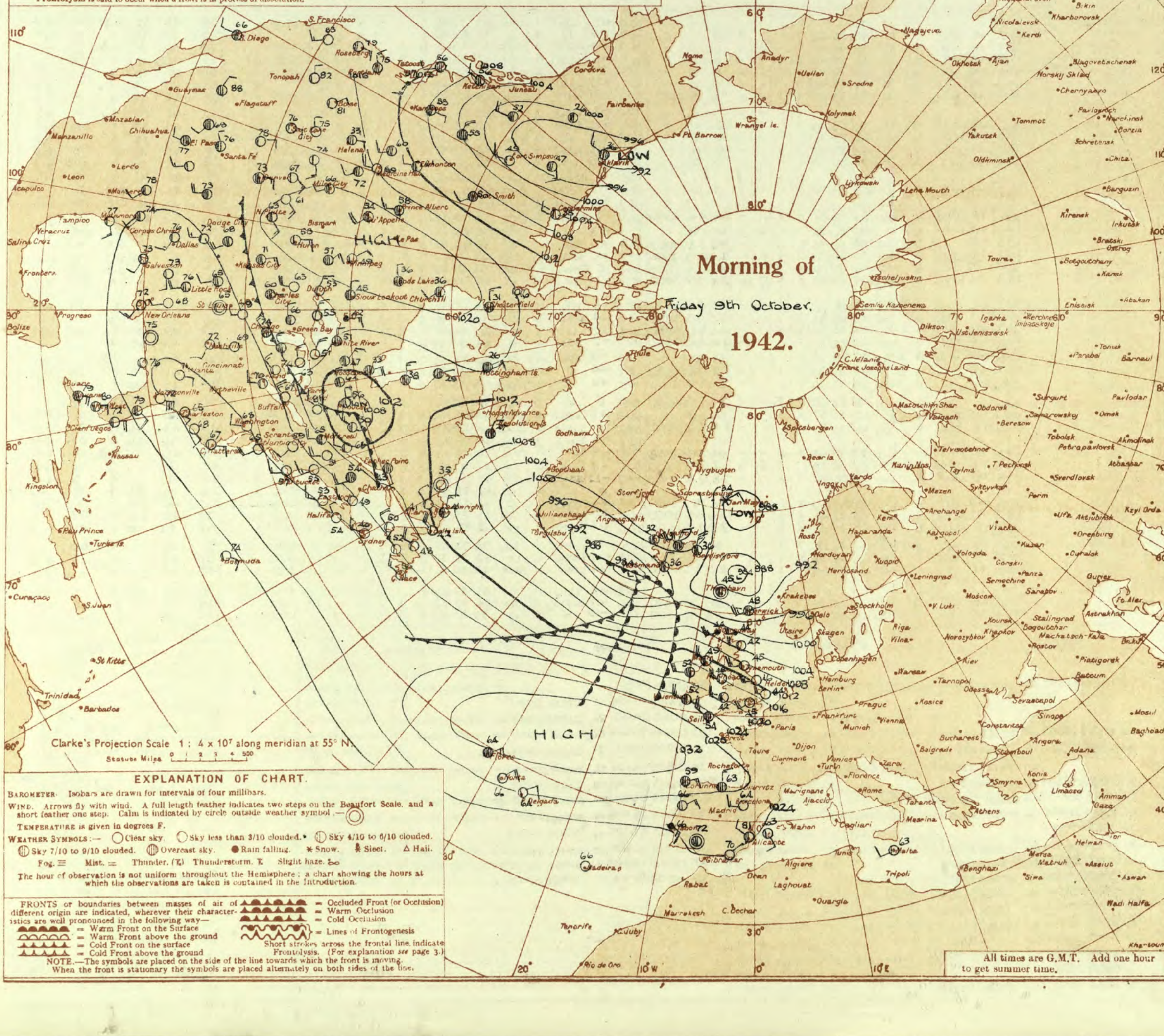
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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.

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

Page 4.

BRITISH SECTION

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

Friday 9th October 1942

No. 29541

## OBSERVATIONS at 1 hr. G.M.T. 9th October

| 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) | Amount Low 0–10 (13) | Amount Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 46 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 18·7 | +16 | WSW | 4 | b | 45 | 85 | 42 | 7 | - | - | 9 | 0 | | - |
| | S. Farnborough | 226 | 18·7 | +14 | W'S | 3 | b | 45 | 85 | 40 | 7 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 417 | 19·5 | +18 | W'N | 4 | b | 43 | 85 | 40 | 8 | - | - | - | 0 | 0 | - |
| | Thorney Island | 10 | 19·4 | +14 | W'N | 4 | b | 48 | 85 | 44 | 7 | - | - | - | 0 | 0 | - |
| | Lympne | 283 | 17·7 | +12 | W'N | 4 | b | 42 | 85 | 40 | 7 | - | - | - | 0 | 0 | - |
| | Manston | 154 | 16·9 | +14 | W'S | 4 | b | 45 | 85 | 41 | 8 | 1 | - | - | Tr | Tr | 1200 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 15·6 | +14 | WSW | 4 | b | 47 | 85 | 44 | 7 | - | - | - | 0 | 0 | - |
| | Gorleston | 5 | 13·8 | +8 | W'N | 4 | bl | 44 | 75 | 38 | 7 | - | - | - | 0 | 0 | - |
| | Mildenhall | 15 | 15·3 | +14 | WSW | 4 | b | 43 | 85 | 39 | 7 | - | - | - | 0 | 0 | - |
| | Cranwell | 203 | 14·0 | +10 | W'S | 3 | z0 | 42 | 85 | 39 | 6 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 16·7 | +14 | W'N | 3 | b | 43 | 85 | 39 | 6 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 21·1 | +12 | WNW | 5 | bc | 52 | 65 | 41 | 9 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 20·3 | +18 | WNW | 4 | b | 46 | 75 | 39 | 7 | - | 4 | - | 0 | Tr | - |
| | Portland Bill | 32 | 20·0 | +12 | W | 5 | c-bc | 54 | 92 | 52 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 82 | 23·1 | +16 | WNW | 5 | b-bc | 50 | 75 | 43 | 7 | 4 | - | - | 2-3 | 2-3 | 2000 |
| | The Lizard | 240 | 23·5 | +10 | WNW | 5 | bc | 53 | 75 | 46 | 8 | 8 | - | - | 4-6 | 4-6 | 1500 |
| | Scilly (St. Mary's) | 163 | 24·5 | +14 | WNW | 5 | c-bcjp | 54 | 85 | 49 | 8 | 8 | 7 | - | 4-6 | 7-8 | 1000 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 20·7 | +12 | NW | 5 | bcq | 42 | 75 | 36 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 7 | Holyhead (Valley) | 32 | 16·9 | +12 | WNW | 6 | bc | 48 | 65 | 38 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| | Chester (Sealand) | 16 | 15·3 | +12 | W | 3 | c-bc | 47 | 75 | 39 | 6 | 5 | 2 | - | 4-6 | 7-8 | 3000 |
| 8 | Manchester | 235 | 14·6 | +14 | SW | 4 | bc | 45 | 85 | 40 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 10 | Spurn Head | 29 | 11·8 | +12 | W'S | 5 | bq | 46 | 75 | 39 | 7 | - | - | - | 0 | 0 | - |
| | Catterick | 175 | 11·1 | +8 | W | 3 | b/pr | 44 | 85 | 39 | 7 | 3 | - | - | Tr | Tr | 2500 |
| | Tynemouth | 108 | 08·1 | +4 | W | 5 | b-bc | 45 | 75 | 36 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 |
| 11 | St. Abbs Head | 280 | 05·6 | 0 | W | 3 | b-bc | 43 | 85 | 39 | 7 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Leuchars | 36 | 04·2 | +10 | SW | 4 | b/b-bc | 42 | 85 | 37 | 8 | - | - | - | 0 | 0 | - |
| 12 | Renfrew (Abbots I.) | 19 | 07·6 | +8 | W'S | 4 | b-bc/pr | 44 | 85 | 40 | 7 | 8 | - | - | 2-3 | 2-3 | 2500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 12·6 | +12 | NWW | 7 | bc | 49 | 85 | 44 | 8 | 4 | - | - | 4-6 | 4-6 | 3000 |
| 13A | Tiree | 22 | 07·8 | +12 | WNW | 6 | pr | 47 | 75 | 39 | 7 | 3 | 6 | 3 | 4-6 | 7-8 | 1500 |
| 13B | Stornoway | 80 | 00·5 | +10 | NSW | 5 | pr | 44 | 92 | 42 | 7 | 8 | 7 | - | 7-8 | 7-8 | 2000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 02·3 | +10 | W'N | 4 | b | 42 | 85 | 39 | 8 | 5 | - | - | Tr | Tr | 3500 |
| | Wick | 114 | 98·5 | +12 | NSW | 4 | pr | 44 | 92 | 42 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 |
| 16 | Sumburgh | 19 | 92·4 | -6 | WNW | 8 | pr | 49 | 85 | 45 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |
| 17 | Blacksod Point | 18 | 16·6 | +2 | W | 6 | c | 52 | 85 | 48 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| 18 | Malin Head | 84 | 10·8 | +12 | W'N | 7 | bc | 49 | 65 | 38 | 8 | 9 | - | - | 4-6 | 4-6 | 1500 |
| | Aldergrove | 268 | 13·5 | +10 | W | 4 | bc | 44 | 85 | 39 | 7 | 5 | - | - | 2-3 | 2-3 | 1800 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 22·9 | +10 | W'N | 5 | c/pr | 52 | 85 | 48 | 8 | 8 | - | - | 9+ | 9+ | 2500 |
| | Roches Point | 22 | 22·3 | +10 | W'N | 4 | c-bc | 50 | 85 | 42 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 9th October

| 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) | Amount Low 0–10 (28) | Amount Total 0–10 (29) | Height of Base (feet) (30) | State of Ground 0–9 (31) | Sea 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 20·9 | +12 | WSW | 2 | c-bc | 47 | 75 | 40 | 7 | 5 | 3 | 1 | 4-6 | 7-8 | 2500 | 1 | * |
| Croydon | 21·3 | +14 | W | 4 | c | 45 | 85 | 40 | 6 | - | 7 | 9 | 0 | 9 | - | 1 | * |
| S. Farnborough | 21·3 | +14 | WSW | 3 | c-bc | 45 | 85 | 41 | 8 | 5 | 7 | 9 | Tr | 7-8 | 2500 | 1 | * |
| Boscombe Down | 21·8 | +6 | W'S | 4 | c-bc | 45 | 85 | 41 | 8 | 5 | 4 | 2 | Tr | 7-8 | 3000 | 0 | * |
| Thorney Island | 22·0 | +14 | W'S | 3 | c-bc | 49 | 85 | 44 | 8 | 5 | 3 | - | 2-3 | 7-8 | 4000 | 0 | * |
| Lympne | 21·1 | +20 | WNW | 3 | bc | 41 | 85 | 39 | 8 | - | 4 | 5 | 0 | 2-3 | - | 1 | §4 |
| Manston | 20·3 | +30 | WSW | 3 | b-bc | 43 | 85 | 38 | 8 | 1 | 7 | - | 1 | 2-3 | 1200 | 1 | * |
| Shoeburyness | 20·0 | +18 | WSW | 3 | bc | 45 | 85 | 41 | 7 | - | 4 | - | 0 | 4-6 | - | 1 | * |
| Felixstowe | 18·5 | +22 | SW'W | 4 | bc | 45 | 85 | 39 | 7 | - | 4 | - | 0 | 4-6 | - | 1 | 3 |
| Gorleston | 16·3 | +24 | W | 4 | b-bc | 42 | 85 | 37 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 | 0 | 3 |
| Mildenhall | 18·0 | +18 | WSW | 4 | bc | 43 | 85 | 38 | 8 | 5 | 3 | 6 | 1 | 4-6 | 4000 | 1 | * |
| Cranwell | 16·1 | +10 | WSW | 4 | bc | 44 | 85 | 39 | 8 | 4 | 4 | 9 | Tr | 4-6 | 3000 | 0 | * |
| Birmingham | 18·0 | 0 | WSW | 4 | c | 45 | 85 | 41 | 7 | 5 | 7 | - | 4-6 | 9 | 2500 | 1 | * |
| Upper Heyford | 19·4 | +16 | WSW | 3 | c-bc | 43 | 92 | 40 | 7 | 5 | 7 | 6 | 1 | 7-8 | 2500 | 0 | * |
| Ross-on-Wye | 19·7 | +6 | SW'W | 3 | c-bc | 48 | 75 | 40 | 8 | 5 | 4 | 2 | 4-6 | 7-8 | 3000 | 1 | * |
| Hartland Point | 21·5 | -2 | WNW | 5 | c/pr | 55 | 75 | 48 | 8 | 2 | 4 | - | 4-6 | 9 | 1800 | 1 | 5 |
| Bristol | 22·0 | +8 | W | 2 | c-bc | 49 | 85 | 43 | 7 | 5 | 4 | 2 | 2-3 | 7-8 | 5700 | 1 | * |
| Portland Bill | 22·6 | +10 | SSE | 5 | c | 55 | 85 | 51 | 8 | 5 | 7 | - | 4-6 | 9 | 4000 | 1 | |
| Plymouth | 24·5 | +10 | W'N | 4 | c-bc | 53 | 85 | 47 | 7 | 5 | 7 | 1 | 7-8 | 7-8 | 3000 | 0 | 3 |
| The Lizard | 24·3 | 0 | WNW | 6 | bc | 54 | 85 | 46 | 8 | 8 | 6 | - | 4-6 | 4-6 | 1500 | 1 | 5 |
| Scilly (St. Mary's) | 24·8 | -2 | W | 4 | c | 55 | 75 | 45 | 8 | 8 | 6 | - | 9 | 9+ | 1200 | 0 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 20·4 | -6 | W'N | 7 | cq | 55 | 85 | 50 | 8 | 8 | 3 | - | 4-6 | 9 | 2000 | 1 | 4 |
| Holyhead (Valley) | 17·0 | -4 | WSW | 6 | c | 52 | 75 | 46 | 8 | 5 | 7 | - | 4-6 | 9+ | 2500 | 1 | 4 |
| Chester (Sealand) | 16·4 | +2 | W | 3 | c | 51 | 75 | 41 | 7 | 5 | 7 | - | 9 | 9+ | 3000 | 1 | * |
| Manchester | 15·7 | +2 | SSW | 4 | c | 48 | 85 | 42 | 6 | 2 | - | - | 7-8 | 9+ | 1500 | 1 | * |
| Spurn Head | 14·5 | +18 | WSW | 4 | bc | 46 | 85 | 42 | 7 | 7 | 3 | 2 | 2-3 | 4-6 | 2500 | 0 | 3 |
| Catterick | 12·7 | +4 | W | 3 | c | 47 | 85 | 41 | 8 | - | 9 | 9 | 0 | 9+ | - | 1 | * |
| Tynemouth | 10·4 | +4 | W | 3 | b-bcq | 45 | 75 | 39 | 6 | - | 4 | - | 0 | 2-3 | - | 1 | 3 |
| St. Abbs Head | 06·4 | 0 | W | 5 | c-bc | 46 | 75 | 40 | 7 | 5 | 4 | - | 4-6 | 7-8 | 3500 | 0 | 5 |
| Leuchars | 06·3 | +2 | WSW | 4 | c-bc | 45 | 85 | 40 | 8 | 5 | 7 | - | 4-6 | 7-8 | 3500 | 0 | * |
| Renfrew (Abbots I.) | 08·0 | 0 | WSW | 4 | d.d. | 48 | 85 | 45 | 6 | 5 | 2 | - | 9 | 10 | 1200 | 1 | * |
| Eskdalemuir | 10·2 | +2 | SWS | 3 | ir0 | 42 | 97 | 41 | 6 | 6 | 2 | - | 7-8 | 10 | 300 | 1 | * |
| Point of Ayre | 12·8 | -4 | W'N | 5 | e/d | 50 | 92 | 48 | 8 | 6 | 2 | - | 9 | 10 | 1500 | 1 | 5 |
| Tiree | 03·7 | -4 | WSW | 6 | rr | 52 | 97 | 51 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 5 |
| Stornoway | 99·7 | -22 | SSW | 4 | rr | 47 | 97 | 45 | 7 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | 3 |
| Dalwhinnie | 04·3 | 0 | W | 4 | c | 42 | 85 | 37 | 8 | 5 | 1 | - | 4-6 | 9+ | 1500 | 1 | * |
| Aberdeen † | 04·5 | +4 | SSW | 2 | c | 43 | 65 | 33 | 8 | 5 | 4 | 8 | 1 | 9+ | 1500 | 1 | 2 |
| Wick | 00·6 | +6 | WSW | 4 | z0 | 43 | 85 | 37 | 9 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Sumburgh | 94·6 | +14 | W'N | 8 | pr | 48 | 85 | 44 | 7 | 9 | 6 | - | 4-6 | 7-8 | 2000 | 1 | 6 |
| Blacksod Point | 12·9 | -22 | W | 6 | id0 | 54 | 92 | 52 | 7 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 5 |
| Malin Head | 07·9 | -26 | WNW | 6 | rr | 53 | 92 | 51 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | 5 |
| Aldergrove | 12·2 | -14 | SW | 3 | id0 | 48 | 92 | 46 | 6 | 6 | 2 | - | 9 | 10 | 300 | 1 | * |
| Birr Castle | 16·5 | -14 | SSW | 4 | c | 51 | 92 | 49 | 8 | | 2 | - | 10 | 10 | 800 | 1 | * |
| Valentia Obsy. | 20·6 | -12 | SW'W | 4 | ir0 | 54 | 85 | 50 | 8 | 5 | 2 | - | 1 | 10 | 1500 | 1 | |
| Roches Point | 20·6 | -10 | W | 4 | c | 51 | 85 | 47 | 8 | 5 | - | - | 9 | 9 | 1500 | 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 8th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 58 | 45 | 38 | 0·2 | - | 3·4 |
| Croydon | 59 | 43 | 40 | 1 | - | 4·4 |
| S. Farnborough | 58 | 43 | 37 | 0·3 | - | 4·6 |
| Boscombe Down | 55 | ?7 | 39 | 2 | 0·3 | 6·0 |
| Thorney Island | 60 | 46 | 43 | 1 | - | * |
| Lympne | 62 | 42 | 38 | 1 | - | 3·8 |
| Manston | 62 | 42 | 38 | 2 | - | 3·3 |
| Shoeburyness | 62 | 44 | 39 | 1 | - | 3·9 |
| Felixstowe | 62 | 43 | 39 | 1 | 0·1 | 3·8 |
| Gorleston | 60 | 42 | 38 | 1 | - | 2·4 |
| Mildenhall | 57 | 41 | 36 | 2 | - | 3·9 |
| Cranwell | 52 | 41 | 37 | 1 | 0·3 | 5·3 |
| Birmingham | 55 | 41 | 36 | 5 | Tr | 5·6 |
| Upper Heyford | 56 | 41 | 38 | 0·4 | Tr | * |
| Ross-on-Wye | 57 | 45 | 41 | 0·3 | - | 6·3 |
| Hartland Point | 55 | 50 | 48 | 1 | Tr | 7·1 |
| Bristol | 57 | 45 | 40 | 2 | 0·2 | 6·2 |
| Portland Bill | 59 | 52 | * | 0·1 | - | * |
| Plymouth | 58 | 47 | 44 | 0·2 | Tr | 6·8 |
| The Lizard | 57 | 50 | * | 0·5 | 0·5 | 5·9 |
| Scilly (St. Mary's) | 58 | 52 | * | - | 0·1 | 8·8 |
| Guernsey | | | | | | |
| Pembroke | 57 | 47 | * | Tr | 0·1 | 6·1 |
| Holyhead (Valley) | 56 | 47 | 43 | Tr | - | * |
| Chester (Sealand) | 57 | 45 | 39 | 1 | 2 | 7·1 |
| Manchester | 53 | 43 | 38 | 2 | 1 | * |
| Spurn Head | 57 | 44 | * | 0·5 | - | 4·1 |
| Catterick | 56 | 41 | 33 | 0·2 | Tr | 6·0 |
| Tynemouth | 54 | 43 | 40 | 1 | - | * |
| St. Abbs Head | 51 | 41 | | 0·2 | - | |
| Leuchars | 53 | 40 | 36 | - | | 8·5 |
| Renfrew (Abbots I.) | 49 | 43 | 38 | 13 | 2 | 5·1 |
| Eskdalemuir | 49 | 35 | 33 | 3 | 0·5 | 4·0 |
| Point of Ayre | 55 | 46 | * | 0·3 | 0·1 | 6·8 |
| Tiree | 50 | 43 | * | 2 | 4 | 5·4 |
| Stornoway | 48 | 43 | * | 4 | 3 | 2·4 |
| Dalwhinnie | 46 | 36 | 33 | 4 | 4 | 4·2 |
| Aberdeen † | 54 | 40 | 34 | - | - | 7·1 |
| Wick | 52 | 40 | 34 | - | 0·5 | * |
| Sumburgh | 52 | 43 | 40 | 1 | 10 | 2·9 |
| Blacksod Point | 51 | 45 | * | 4 | 0·5 | * |
| Malin Head | 50 | 44 | | 2 | 4 | 4·2 |
| Aldergrove | 49 | 42 | 37 | 3 | 0·2 | 7·2 |
| Birr Castle | 51 | 44 | 40 | 2 | - | 3·6 |
| Valentia Obsy. | 55 | 53 | 49 | 1 | Tr | 0·4 |
| Roches Point | 55 | 49 | * | 0·6 | 0·3 | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 8th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 9th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 36 | 25853 | 53683 | 36 | 10854 | 20485 | 50 | 81744 | 37784 | 87 | c2854 | 56585 |
| 115 | | | | | | | | | | 87 | 44844 | 91686 |
| 203 | | | | | | | 8- | 81846 | 24586 | 6- | 80836 | 24588 |
| 206 | 86 | 81844 | 55685 | 43 | 25853 | 22484 | 8- | 81747 | 57587 | 84 | 57484 | 02347 |
| 210 | 24 | 10964 | 22526 | 46 | 02961 | 23316 | 8- | 01964 | 22484 | 53 | 02963 | 21316 |
| 220 | | | | 80 | 88757 | 27587 | 8- | 25858 | 56488 | 62 | 66416 | 24568 |
| 230 | 3- | 02965 | 54384 | 96 | 25955 | 53485 | | | | 62 | 62744 | 20368 |
| 245 | 26 | 10963 | 53413 | 44 | 02961 | 25283 | 04 | 01990 | 18101 | 84 | 02962 | 22417 |
| 260 | 26 | 25864 | 20484 | 34 | 01753 | 57481 | 50 | 05663 | 55423 | 57 | 02764 | 22526 |
| 278 | 36 | 25853 | 58584 | | | | 30 | 01853 | 58683 | 62 | 02737 | 21428 |
| 279 | 70 | 01864 | 56414 | 36 | 10953 | 57583 | 30 | 81854 | 24884 | 87 | 02855 | 55486 |
| 285 | 30 | 25855 | 24685 | 37 | 25744 | 22586 | | | | 53 | 05636 | 28625 |
| 288 | 80 | 01854 | 55414 | 44 | 02864 | 23385 | 00 | 00890 | 20400 | | | |
| 575 | 90 | 25844 | 24584 | 96 | 10844 | 26484 | 3- | 81746 | 59586 | 53 | 02855 | 17317 |
| 301 | 20 | 25955 | 59585 | 9- | 25854 | 57585 | 2- | 81855 | 69585 | 52 | 61746 | 24528 |
| 321 | 80 | 25754 | 25484 | 9- | 81646 | 22386 | 00 | 00790 | 24140 | 57 | 05661 | 24315 |
| 299 | 14 | 01754 | 24414 | 80 | 01754 | 22314 | 80 | 07752 | 22202 | 54 | 01763 | 20314 |
| 292 | 36 | 02953 | 55424 | 30 | 01853 | 21383 | 40 | 01761 | 23411 | 53 | 02864 | 24416 |
| 310 | -- | 01634 | 24514 | | | | | | | -- | 02628 | 24488 |
| 614 | 20 | 01754 | 57414 | 97 | 25654 | 22285 | | | | 57 | 05645 | 22357 |
| 333 | 24 | 10964 | 24414 | | | | 2- | 01864 | 59424 | 5- | 02748 | 22428 |
| 334 | -- | 65645 | 24486 | -- | 27646 | 28587 | | | | -- | 03637 | 24428 |
| 340 | 20 | 01965 | 24415 | 20 | 25952 | 22383 | 40 | 01862 | 22302 | 59 | 02852 | 24316 |
| 136 | 53 | 09644 | 23464 | 86 | 01753 | 23413 | 50 | 01861 | 22411 | 55 | 01761 | 22414 |
| 336 | 10 | 02755 | 28516 | 21 | 25755 | 28486 | | | | 57 | 02756 | 28428 |
| 350 | 24 | 01854 | 58464 | 36 | 81855 | 59486 | 00 | 00790 | 57310 | 5- | 02765 | 20325 |
| 368 | 20 | 01953 | 26563 | 09 | 25835 | 23312 | | | | 54 | 02854 | 24216 |
| 379 | 2- | 02944 | 24424 | 54 | 01844 | 24315 | 50 | 01752 | 24312 | 53 | 01753 | 22414 |
| 390 | 57 | 21664 | 28456 | 40 | 01661 | 22311 | 00 | 05690 | 23300 | 34 | 05663 | 28315 |
| 382 | 86 | 01953 | 58425 | 46 | 25864 | 23384 | | | | 07 | 01890 | 22224 |
| 438 | 57 | 02754 | 20465 | 57 | 02754 | 20465 | 50 | 01762 | 22502 | 54 | 02764 | 28515 |
| 430 | 17 | 02765 | 26365 | 86 | 01862 | 22302 | 00 | 00790 | 24310 | 57 | 02751 | 22226 |
| 409 | 10 | 01954 | 59514 | 27 | 81854 | 59415 | 20 | 01753 | 25413 | 76 | 25865 | 57586 |

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

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

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 October.
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 * | id0qrc | bcz0 | bczbcw |
| Croydon | c-bc | cm0cbm | bcm0cm |
| Greenwich | dr0c | cbcyb | bbcc0 |
| Camden Square | c | c | * |
| *Kensington | bccdbc | bc | * |
| Hampstead | bcor | bc | bc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time 0·1 13-20h. 8th
Min. Time <0·1 21-24h 8th

| 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 | 58 | 43 | 38 | 0·2 | - | 3·4 | * | * |
| Croydon | 59 | 43 | 40 | 1 | - | 4·4 | * | * |
| Greenwich | 60 | 43 | 35 | 0·5 | - | 3·1 | 50 | 67 |
| Westminster | 60 | 43 | 39 | 0·7 | | * | 89 | 77 |
| Regents Park | 59 | 43 | 40 | 0·6 | - | * | 73 | 69 |
| Camden Square | 58 | 43 | 37 | 0·5 | - | * | * | 73 |
| Kensington | 59 | 44 | 34 | 1·5 | Tr | + | 55 | 74 |
| Hampstead | 57 | 41 | 37 | 0·2 | - | * | * | 80 |

SECRET

Page 1 BRITISH SECTION

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

Saturday 10th October 1942

No. 29542

## OBSERVATIONS at 13h. G.M.T. 9th October

| 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) | 19·9 | -10 | WSW | 3 | c | 55 | 75 | 43 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Croydon | 21·0 | -6 | SW'S | 4 | c | 57 | 75 | 49 | 7 | 5 | 7 | - | 9+ | 10 | 2000 |
| | S. Farnborough | 20·6 | -14 | WSW | 4 | c | 56 | 75 | 45 | 8 | 7 | 7 | - | 9 | 10 | 2800 |
| | Boscombe Down | 20·7 | -10 | NW'W | 5 | c | 55 | 92 | 49 | 8 | 5 | 7 | - | 9+ | 10 | 2000 |
| | Thorney Island | 21·5 | -6 | W | 5 | c | 57 | 85 | 51 | 9 | 7 | 7 | - | 4-6 | 9+ | 4000 |
| | Lympne | 21·5 | -6 | WSW | 3 | c | 55 | 75 | 45 | 8 | 5 | 7 | - | 7-8 | 10 | 3500 |
| | Manston | 20·5 | -6 | SW'W | 5 | •/r | 56 | 65 | 44 | 7 | 5 | - | - | 9+ | 9+ | 3000 |
| 2 | Shoeburyness | 20·1 | -10 | WSW | 4 | c | 56 | 75 | 47 | 8 | 5 | - | - | 10 | 10 | 3000 |
| | Felixstowe | 19·0 | -6 | SW | 4 | ir. | 55 | 75 | 47 | 7 | 5 | 2 | - | 7-8 | 10 | 2500 |
| | Gorleston | 17·6 | 0 | SW'W | 4 | r.r. | 53 | 75 | 47 | 7 | 5 | - | - | 10 | 10 | 2000 |
| | Mildenhall | 17·3 | -14 | SW | 4 | r.r. | 54 | 75 | 48 | 8 | 5 | 2 | - | 7-8 | 10 | 3000 |
| | Cranwell | 14·4 | -18 | SW | 5 | z. | 54 | 75 | 46 | 6 | 5 | 7 | - | 4-6 | 9+ | 2000 |
| 3 | Birmingham | 16·7 | -12 | WSW | 4 | c | 55 | 75 | 48 | 8 | 5 | 7 | - | 7-8 | 9+ | 1500 |
| | Upper Heyford | 18·0 | -16 | WSW | 5 | c | 56 | 75 | 46 | 8 | 5 | 7 | - | 4-6 | 9+ | 3000 |
| 4 | Ross-on-Wye | 17·7 | -16 | WSW | 5 | c | 57 | 75 | 48 | 8 | 5 | 7 | - | 9+ | 10 | 3000 |
| 5 | Hartland Point | 20·0 | -18 | W | 6 | c/r | 55 | 85 | 52 | 8 | 6 | 2 | - | 7-8 | 9+ | 1000 |
| | Bristol | 21·1 | -4 | WSW | 4 | d.d. | 54 | 92 | 52 | 6 | 6 | 7 | - | 4-6 | 10 | 800 |
| | Portland Bill | 22·3 | +10 | WSW | 5 | c | 57 | 85 | 53 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth | 23·4 | -14 | WSW | 4 | c | 58 | 75 | 51 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | The Lizard | 23·4 | -8 | W'S | 6 | c | 56 | 75 | 48 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| | Scilly (St. Mary's) | 23·5 | -18 | SW'W | 4 | c-bq | 58 | 75 | 50 | 8 | 8 | 6 | 4 | 4-6 | 7-8 | 1000 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 18·0 | -16 | W'S | 8 | c/pr | 56 | 92 | 54 | 7 | 8 | 3 | - | 7-8 | 9+ | 1500 |
| 7 | Holyhead (Valley) | 13·5 | -30 | SW | 6 | r.r. | 54 | 92 | 52 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Chester (Sealand) | 13·3 | -26 | SW'S | 4 | ir. | 57 | 75 | 49 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 |
| 8 | Manchester | 13·7 | -20 | S | 4 | c/r | 54 | 85 | 49 | 8 | 5 | 7 | - | 9 | 9+ | 1500 |
| 10 | Spurn Head | 13·4 | -10 | WSW | 6 | c | 54 | 75 | 46 | 7 | 5 | 2 | - | 7-8 | 10 | 2500 |
| | Catterick | 09·8 | -22 | SW | 5 | c/r | 56 | 85 | 50 | 8 | 5 | 7 | 1 | 4-6 | 9+ | 1800 |
| | Tynemouth | 07·4 | -26 | W | 5 | c-bc | 57 | 75 | 47 | 6 | 8 | 2 | - | 4-6 | 7-8 | 2700 |
| 11 | St. Abbs Head | 01·7 | -38 | SW | 5 | c | 54 | 85 | 50 | 7 | 6 | 2 | - | 4-6 | 10 | 2500 |
| | Leuchars | 97·8 | -56 | SW | 7 | Dr | 56 | 85 | 52 | 7 | 6 | 1 | - | 7-8 | 10 | 500 |
| 12 | Renfrew (Abbots I.) | 02·3 | -26 | SW | 5 | r.r. | 53 | 92 | 51 | 6 | 6 | 2 | - | 9 | 10 | 800 |
| | Eskdalemuir | 04·5 | -30 | SW'W | 6 | rr | 51 | 92 | 49 | 6 | 6 | 2 | - | 9 | 10 | 500 |
| | Point of Ayre | 08·5 | -24 | W'S | 6 | rr | 53 | 97 | 52 | 6 | 6 | 2 | - | 4-6 | 10 | 1000 |
| 13A | Tiree | 95·8 | -50 | WSW | 8 | RR | 53 | 97 | 53 | 6 | - | 2 | - | 10 | 10 | 800 |
| 13B | Stornoway | 87·7 | -60 | SW | 8 | rr | 54 | 92 | 52 | 7 | 5 | 2 | - | 9 | 10 | 1000 |
| 15 | Dalwhinnie | 96·0 | -38 | SW | 4 | rr | 50 | 85 | 46 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Aberdeen | 96·7 | -26 | SSW | 4 | z. | 51 | 85 | 47 | 6 | 5 | 7 | - | 9+ | 10 | 1500 |
| | Wick | 92·5 | -62 | S'W | 3 | r.r. | 51 | 97 | 50 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 |
| 16 | Sumburgh | 91·8 | -34 | SSW | 6 | r.r. | 47 | 92 | 46 | 6 | 5 | 2 | - | 9 | 10 | 1500 |
| 17 | Blacksod Point | 05·8 | -42 | SW | 7 | ir. | 55 | 92 | 53 | 7 | 6 | 2 | - | 4-6 | 10 | 800 |
| 18 | Malin Head | 99·9 | -52 | W'N | 8 | c/r | 54 | 85 | 50 | 7 | 6 | 2 | - | 7-8 | 10 | 800 |
| | Aldergrove | 06·6 | -34 | WSW | 4 | id. | 53 | 92 | 50 | 6 | 6 | 2 | - | 9 | 10 | 800 |
| 19 | *Birr Castle | 12·0 | -38 | WSW | 5 | c | 56 | 85 | 52 | 8 | 6 | 1 | • | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 16·4 | -26 | SW'W | 6 | c/r | 56 | 85 | 52 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Roches Point | 17·4 | -22 | W'S | 5 | c/d | 56 | 85 | 52 | 8 | 5 | - | • | 9+ | 9+ | 800 |

## OBSERVATIONS at 18h. G.M.T. 9th. October

| 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) | 16·0 | -18 | SW'W | 4 | ir. | 55 | 75 | 47 | 7 | 5 | 2 | 9 | 9 | 10 | 1500 | 1 | * |
| Croydon | 17·2 | -22 | SW | 5 | c | 56 | 75 | 49 | 7 | 5 | 7 | - | 4-6 | 10 | 2000 | 1 | * |
| S. Farnborough | 16·9 | -20 | WSW | 5 | c | 55 | 75 | 47 | 8 | 5 | 7 | 8 | 7-8 | 10 | 3200 | 0 | * |
| Boscombe Down | 17·7 | -26 | SW'W | 4 | c | 54 | 85 | 48 | 8 | 5 | - | - | 4-6 | 9+ | 2000 | 0 | * |
| Thorney Island | 18·1 | -22 | SW'W | 6 | c/r | 57 | 75 | 50 | 8 | 5 | 7 | - | 7-8 | 9 | 1500 | 0 | * |
| Lympne | 17·9 | -20 | WSW | 4 | c | 55 | 85 | 49 | 8 | 5 | 7 | - | 9 | 10 | 2500 | 1 | § 5 |
| Manston | 16·5 | -22 | SW | 4 | c | 56 | 75 | 47 | 8 | 5 | 3 | - | Tr | 9+ | 2500 | 1 | * |
| Shoeburyness | 16·2 | -20 | SW | 4 | c | 56 | 75 | 48 | 8 | 5 | 7 | - | 7-8 | 10 | 2500 | 0 | * |
| Felixstowe | 15·0 | -22 | SSW | 5 | ir. | 56 | 75 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | 5 |
| Gorleston | 12·4 | -34 | SW'W | 4 | ir. | 55 | 85 | 50 | 7 | 5 | - | - | 10 | 10 | 1000 | 1 | 3 |
| Mildenhall | 12·5 | -26 | SW | 6 | ir. | 55 | 85 | 50 | 8 | 5 | 7 | - | 4-6 | 10 | 2000 | 1 | * |
| Cranwell | 09·7 | -28 | SW | 6 | c | 55 | 85 | 49 | 7 | 5 | 7 | - | 9 | 10 | 1500 | 0 | * |
| Birmingham | 11·3 | -34 | SW | 4 | c | 54 | 85 | 50 | 8 | 6 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Upper Heyford | 13·8 | -22 | SW | 6 | c/r | 53 | 85 | 49 | 8 | 5 | - | - | 10 | 10 | 600 | 0 | * |
| Ross-on-Wye | 13·2 | -34 | SW | 5 | c/d | 54 | 85 | 51 | 8 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | * |
| Hartland Point | 14·8 | -24 | W | 7 | ir. | 55 | 85 | 51 | 7 | 6 | 2 | - | 9+ | 10 | 1000 | 1 | 2 |
| Bristol | 16·5 | -28 | SW | 5 | c | 54 | 85 | 48 | 8 | 5 | 7 | - | 9 | 10 | 1500 | 1 | * |
| Portland Bill | 18·3 | -16 | W | 5 | c | 57 | 85 | 53 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| Plymouth | 19·9 | -22 | WSW | 6 | r.r. | 56 | 85 | 55 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 5 |
| The Lizard | 19·9 | -16 | W'S | 6 | c | 56 | 85 | 50 | 8 | 8 | 2 | - | 7-8 | 9+ | 1000 | 0 | 5 |
| Scilly (St. Mary's) | 19·3 | -22 | SE'E | 6 | c | 57 | 75 | 49 | 8 | 8 | - | - | 9+ | 9+ | 1200 | 1 | 5 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 13·0 | -24 | W | 8 | c/pr | 56 | 92 | 54 | 7 | 8 | - | - | 9+ | 9+ | 1500 | 1 | 5 |
| Holyhead (Valley) | 08·7 | -48 | SW'S | 8 | c | 56 | 85 | 52 | 7 | 5 | 7 | - | 7-8 | 10 | 1000 | 1 | 5 |
| Chester (Sealand) | 08·7 | -28 | SW | 4 | z. | 57 | 75 | 49 | 6 | 5 | 2 | - | 9 | 10 | 2000 | 1 | * |
| Manchester | 08·3 | -24 | S | 5 | ir. | 54 | 85 | 50 | 8 | 5 | 2 | - | 9 | 10 | 1500 | 1 | * |
| Spurn Head | 08·2 | -18 | SW | 6 | cq | 56 | 75 | 49 | 7 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | 4 |
| Catterick | 03·4 | -40 | SW | 5 | ir. | 55 | 85 | 50 | 7 | 5 | 2 | - | 9+ | 10 | 600 | 1 | * |
| Tynemouth | 00·4 | -24 | W | 6 | c-bc | 56 | 75 | 48 | 6 | 8 | • | - | 7-8 | 7-8 | 2700 | 1 | 3 |
| St. Abbs Head | 93·4 | -32 | SW | 6 | r.r. | 54 | 85 | 50 | 7 | 5 | - | - | 7-8 | 7-8 | 2000 | 1 | 5 |
| Leuchars | 91·6 | -46 | SW | 7 | r.r. | 54 | 92 | 52 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Renfrew (Abbots I.) | 95·8 | -26 | SW | 6 | r.r. | 54 | 97 | 53 | 4 | 6 | 2 | - | 4-6 | 10 | 800 | 2 | * |
| Eskdalemuir | 97·9 | -30 | SW | 8 | rr | 51 | 97 | 50 | 6 | 6 | 2 | - | 9 | 10 | 400 | 1 | * |
| Point of Ayre | 01·3 | -34 | W'S | 7 | rr | 53 | 97 | 53 | 7 | 6 | 2 | - | 4-6 | 10 | 500 | 1 | 5 |
| Tiree | 91·9 | +6 | W'N | 7 | cbc/r | 54 | 92 | 52 | 8 | 8 | 3 | - | 4-6 | 7-8 | 1800 | 1 | 5 |
| Stornoway | 83·0 | +6 | WSW | 6 | c-bc | 52 | 85 | 48 | 7 | 8 | 9 | 4 | 4-6 | 7-8 | 1500 | 2 | 4 |
| Dalwhinnie | 89·0 | -38 | SW | 5 | c/r | 53 | 75 | 47 | 7 | 5 | 1 | - | 4-6 | 10 | 2500 | 1 | * |
| Aberdeen | 87·9 | -48 | SW | 5 | bc | 54 | 72 | 48 | 8 | 5 | 9 | 7 | 1 | 4-6 | 1500 | 1 | 3 |
| Wick | 82·8 | -58 | SW | 5 | ir. | 51 | 97 | 50 | 7 | 5 | 7 | - | 4-6 | 10 | 800 | 1 | * |
| Sumburgh | 78·5 | -76 | S'W | 8 | rr | 51 | 97 | 51 | 6 | 6 | 2 | - | 9+ | 10 | 1000 | 1 | 4 |
| Blacksod Point | 01·4 | -20 | SW | 6 | rr | 55 | 97 | 54 | 7 | - | 2 | - | 10 | 10 | 800 | 2 | 5 |
| Malin Head | 96·3 | -4 | W | 7 | c/r | 55 | 92 | 53 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 2 | 6 |
| Aldergrove | 00·1 | -30 | SW | 6 | c/r | 53 | 92 | 51 | 6 | 6 | 2 | - | 9+ | 10 | 600 | 1 | * |
| *Birr Castle | 06·5 | -28 | WSW | 6 | ir | 53 | 97 | 52 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| Valentia Obsy. | 11·0 | -30 | SW'W | 6 | r.r. | 55 | 92 | 53 | 5 | 6 | 2 | - | 9+ | 10 | 800 | 1 | 5 |
| Roches Point | 12·2 | -30 | W'S | 6 | c | 56 | 85 | 52 | 7 | 5 | - | - | 9+ | 9+ | 800 | 1 | 5 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 9th (39) | Weather 13h.—18h. 9th (40) | Weather 18h. 9th to 1h. 10th (41) | Weather 1h.–7h. 10th (42) |
|---|---|---|---|---|
| London (Kew) | becwc | ccir. | c | ccr.ir. |
| Croydon | cm.c | c | cmc | ccm.cir.c |
| S. Farnborough | bcc | c | c | c |
| Boscombe Down | c | cir.c | ccir.c | cir.cr.r. |
| Thorney Island | c | cir. | cir.m. | cir.m.cir. |
| Lympne | bcc | c | cd.cm. | cm.ir. |
| Manston | cr.c | cir.c | cir. | ir.c. |
| Shoeburyness | bcc | c | c | c |
| Felixstowe | bccir. | ir.cm.cir.m. | cm. | cm.ir.r.r. |
| Gorleston | bccr.r. | cir. | cprq | cir.c |
| Mildenhall | bc.cor.r. | or.r.oir. | oir.oc | c |
| Cranwell | bccm. | cir.c | ccm.cid.c | cir.m.c |
| Birmingham | bcc | c | cpr. | cpr. |
| Upper Heyford | bcc | ccir.c | bcm.cid.m. | cm.r.r.m. |
| Ross-on-Wye | cbcc | cq id. | cq id. | dq cq |
| Hartland Point | cir | cprir.c | irc | cr.irrrc [gale symbol] |
| Bristol | cd.prdd | cd.d.c | cndbcid.c | |
| Portland Bill | c | cpr | o | o |
| Plymouth | cir. | cpr.ir. | cir.c | cir.d.d. |
| The Lizard | cbcc | cprc | cprcq | bccdd |
| Scilly (St. Mary's) | cbccw | cp.c | cp.q | codd |
| Guernsey | | | | |
| Pembroke | cprq [gale symbol] | cprq [gale symbol] | crrq [gale symbol] | cprq [gale symbol] |
| Holyhead (Valley) | crr | crrc | cr.r.m. | cir.b |
| Chester (Sealand) | | cir.z. | z.morrc | rrpb |
| Manchester | cm.ir. | cr.r.c | cor.r. | crrr.r. |
| Spurn Head | cq | cq | cq | |
| Catterick | cir.c | ccir. | cir.m. | cir.m.b |
| Tynemouth | c | coir.c | cq | bcq |
| St. Abbs Head | bccir | cprr. | cbcprb | b |
| Leuchars | cid.m. | d.r.crrr.r. | bcb | b |
| Renfrew (Abbots I.) | cmor.r. | cm.cmr.r. | r.pr.bcm. | bccm.ir. |
| Eskdalemuir | r.crr | crrm. [gale symbol] | r.crr | crbcpr |
| Point of Ayre | r.r.crr | cirrr | cirrr | rrcb |
| Tiree | oRR [gale symbol] | prrirq [gale symbol] | bcpr. | bccpr |
| Stornoway | crr [gale symbol] | crr | cbccpr | cpr |
| Dalwhinnie | crro | oorrco | * | opridc |
| Aberdeen | ccm. | cm.bc | | |
| Wick | cr.r. | r.r.crrir. | cir.cbc | bc |
| Sumburgh | cpr.r.r.r.m. | cr.r.m.crrm. | crr ir.bc | bcpr.bc |
| Blacksod Point | r | r | bc | bc |
| Malin Head | r | r | r | pr |
| Aldergrove | cid.m. | cr.r.cm. | cr.r.rrc | cbccrr |
| *Birr Castle | c | r | • | r |
| Valentia Obsy. | r | r | r | pr |
| Roches Point | d | d | r | d |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday, 10th October 1942.

| Districts | Forecast |
|---|---|
| 1 S.E. England ↓, 2 E. England ↓, 3 E. Midlands, 4 W. Midlands, 5 S.W. England ↓, 6 South Wales ↓ | Fresh to strong and squally Westerly winds, reaching gale locally on coasts, slowly moderating; cloudy with intermittent rain at first becoming fair apart from scattered showers; cool. |
| 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland | Fresh to strong and squally Westerly winds reaching gale in many places, veering gradually Northwesterly in the North and strongly moderating showers of rain or hail with local thunder; risk of sleet or snow showers on mountains; fair periods; cool, becoming colder in North |
| 16 Orkneys and Shetlands, 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland | As 4 – 15 |

### GENERAL INFERENCE

A very deep depression near the Shetlands is moving East-north-east. Strong squally winds in many areas will reach gale at times on the coast but will ease in the North and West. In northern and western districts there will be showers, heavy locally, and probably accompanied by thunder in a few places. In the East and South there will be occasional rain at first but fair weather with bright periods and a few local showers will spread to most of the area by the afternoon. Conditions will be cool in the North and temperatures will fall in the South.

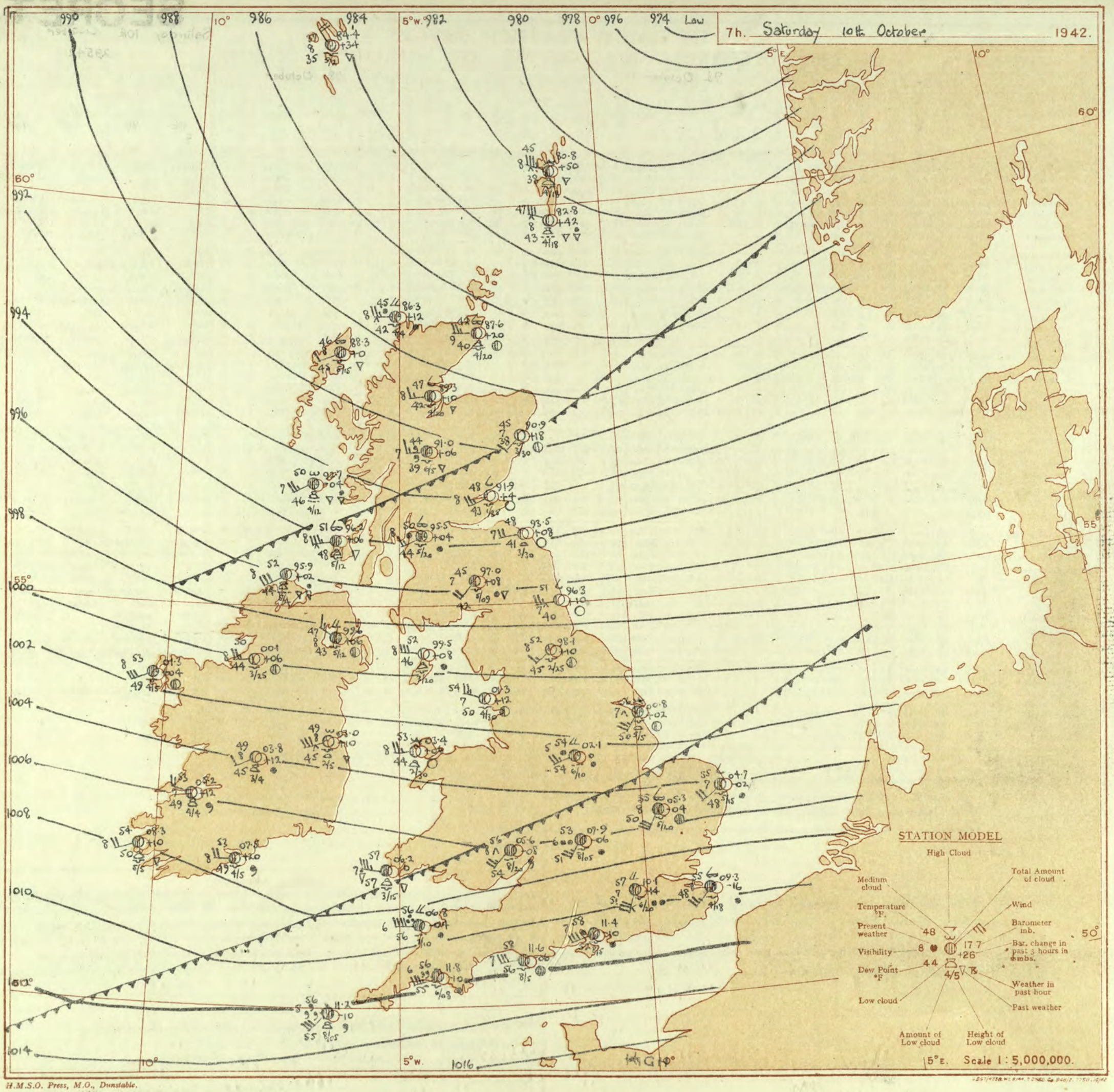
### FURTHER OUTLOOK

Continuing unsettled with further general rain spreading from West.

↓ Gale warning in operation in districts 1, 2, 5 and 6.
Times of issue 1505 on 9/10/42 and 0130 on 10/10/42.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

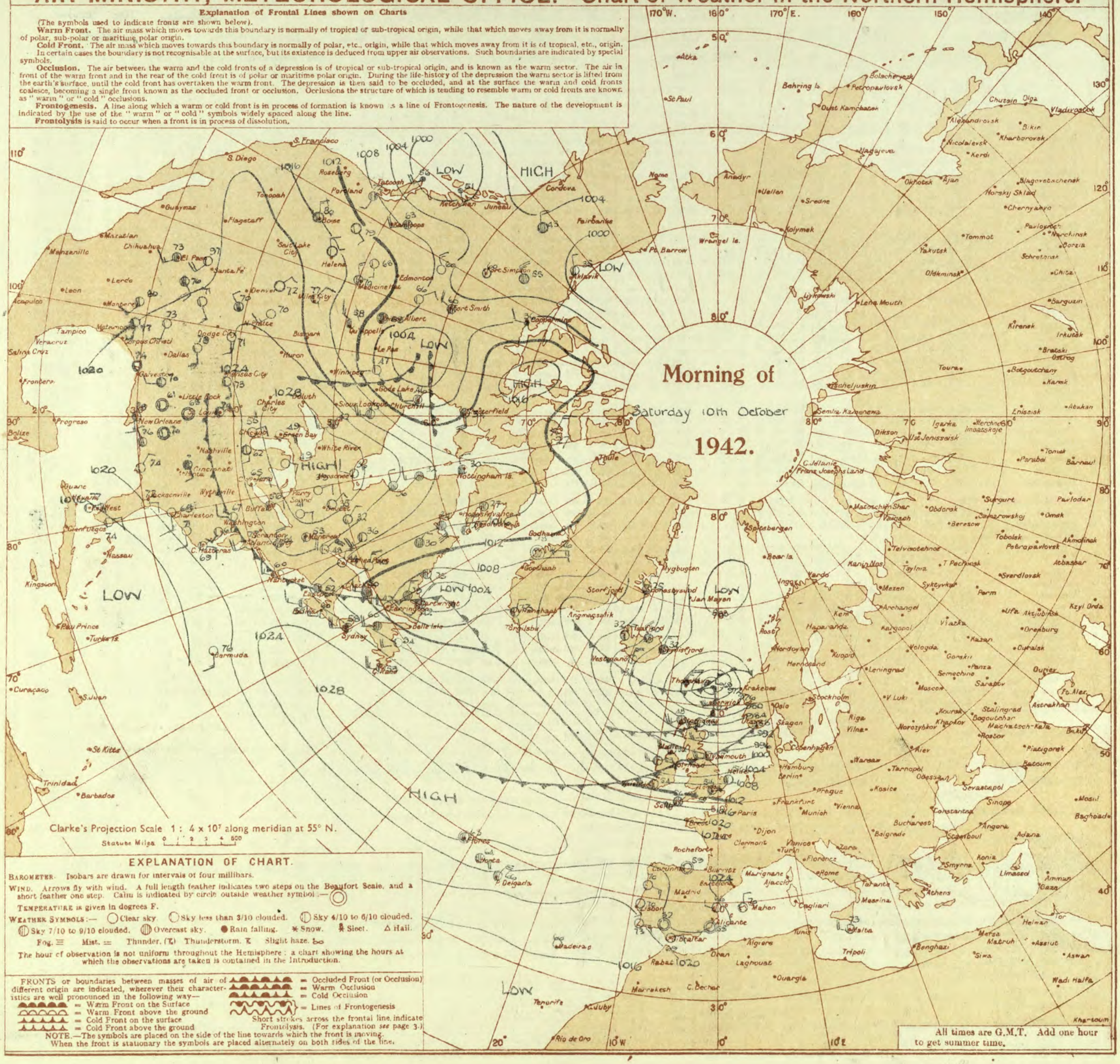
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Saturday 10th October 1942

No. 29542

## OBSERVATIONS at 1 hr. G.M.T. 10th October

| District | Stations | Height above M.S.L. in feet. | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | °F. Dew Point. (8) | Visibility. 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base. (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 56 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 13·0 | -20 | SW'S | 6 | c | 56 | 75 | 49 | 7 | 5 | - | - | 10 | 10 | 2700 |
| | S. Farnborough | 226 | 12·0 | -18 | WSW | 5 | c | 56 | 75 | 49 | 7 | 5 | - | - | 10 | 10 | 2800 |
| | Boscombe Down | 417 | 12·7 | -24 | SW'W | 6 | c | 54 | 75 | 46 | 8 | 5 | - | - | 9+ | 9+ | 2000 |
| | Thorney Island | 10 | 13·8 | -18 | SW | 6 | ir. | 56 | 92 | 53 | 6 | 5 | - | - | 10 | 10 | 1300 |
| | Lympne ... | 283 | 13·3 | -22 | SW | 6 | c-bc | 54 | 85 | 51 | 6 | 5 | - | - | 7-8 | 7-8 | 1800 |
| | Manston ... | 154 | 12·4 | -14 | WSW | 4 | c/r | 55 | 85 | 51 | 7 | 5 | 7 | - | 7-8 | 10 | 1800 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 10·9 | -32 | SW'S | 6 | z. | 57 | 75 | 48 | 6 | 5 | 7 | - | 4-6 | 9 | 3000 |
| | Gorleston ... | 5 | 07·6 | -20 | WSW | 5 | c/pr | 55 | 78 | 48 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Mildenhall ... | 15 | 07·6 | -20 | SW | 6 | c | 55 | 85 | 49 | 7 | 5 | 7 | - | 4-6 | 10 | 3000 |
| | Cranwell ... | 203 | 048 | -20 | WSW | 6 | id. | 55 | 85 | 49 | 6 | 5 | - | - | 9+ | 9+ | 2100 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 09·6 | -20 | WSW | 6 | c/d | 53 | 85 | 49 | 6 | 5 | - | - | 10 | 10 | 1200 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 09·0 | -26 | W | 7 | c/r | 56 | 85 | 51 | 7 | 6 | 2 | - | 9 | 10 | 1500 |
| | Bristol ... | 209 | 17·8 | -22 | SW'S | 6 | z. | 54 | 85 | 50 | 6 | 5 | - | - | 9+ | 9+ | 3700 |
| | Portland Bill ... | 32 | 13·4 | -26 | W | 6 | c | 57 | 85 | 53 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 82 | 14·9 | -22 | WSW | 7 | c | 57 | 75 | 50 | 7 | 5 | - | - | 10 | 10 | 2000 |
| | The Lizard ... | 240 | 15·3 | -20 | WSW | 6 | c | 56 | 85 | 51 | 7 | 8 | 2 | - | 7-8 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 14·2 | -26 | SW'W | 6 | c/pr | 56 | 85 | 50 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 08·0 | -20 | W'S | 8 | rr | 55 | 97 | 55 | 7 | 8 | - | - | 10 | 10 | 1500 |
| 7 | Holyhead (Valley) | 32 | 02·8 | -16 | SW'S | 8 | r.r. | 56 | 92 | 55 | 6 | - | 2 | - | 10 | 10 | 1400 |
| | Chester (Sealand) | 16 | 03·6 | -24 | SW'W | 4 | rr | 56 | 92 | 54 | 6 | 5 | 2 | - | 4-6 | 10 | 2000 |
| 8 | Manchester ... | 235 | 03·0 | -30 | S | 5 | rr | 53 | 97 | 52 | 6 | 6 | 2 | - | 4-6 | 10 | 1600 |
| 10 | Spurn Head ... | 29 | 02·7 | -16 | SW'W | 6 | c-bcq | 56 | 75 | 48 | 7 | 5 | 3 | - | 4-6 | 7-8 | 1500 |
| | Catterick ... | 175 | 97·4 | -26 | SW | 6 | ir. | 56 | 85 | 52 | 6 | 5 | 2 | - | 4-6 | 10 | 1800 |
| | Tynemouth ... | 108 | 96·3 | -12 | W | 5 | c-bcq | 57 | 75 | 49 | 6 | 8 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 92·5 | -4 | W | 4 | bc | 53 | 75 | 45 | 7 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Leuchars ... | 36 | 91·6 | +2 | WSW | 4 | b | 50 | 75 | 44 | 8 | - | 4 | - | 0 | Tr | - |
| 12 | Renfrew (Abbots I.) | 19 | 95·2 | +4 | W'S | 3 | z. | 51 | 75 | 43 | 6 | 5 | - | - | 4-6 | 4-6 | 2500 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre ... | 30 | 97·4 | -12 | W | 6 | rr | 55 | 97 | 55 | 8 | 6 | 2 | - | 4-6 | 10 | 800 |
| 13A | Tiree ... | 22 | 93·3 | +4 | W'S | 5 | bc/pr | 51 | 75 | 43 | 7 | 8 | - | 8 | 4-6 | 4-6 | 1500 |
| 13B | Stornoway ... | 80 | 87·2 | +38 | WSW | 5 | pr | 48 | 92 | 46 | 7 | 8 | 7 | - | 7-8 | 9+ | 2000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 88·8 | -2 | W'S | 5 | b | 51 | 65 | 41 | 9 | - | - | - | 0 | 0 | - |
| | Wick ... | 114 | 83·9 | +8 | WSW | 6 | c-bc | 48 | 85 | 44 | 8 | 8 | - | - | 7-8 | 7-8 | 2000 |
| 16 | Sumburgh .. | 19 | 73·1 | -34 | W | 9 | bc/r | 49 | 85 | 45 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 |
| 17 | Blacksod Point | 18 | 00·7 | +2 | W | 5 | c-bc | 53 | 85 | 49 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 18 | Malin Head ... | 84 | 96·2 | +2 | W | 6 | c | 52 | 65 | 41 | 8 | 6 | - | - | 9 | 9 | 1500 |
| | Aldergrove ... | 268 | 98·4 | +2 | WNW | 4 | c/r | 52 | 92 | 50 | 7 | 8 | - | - | 9 | 9 | 2200 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 06·8 | -10 | WSW | 5 | r.r. | 57 | 97 | 56 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | 06·7 | -22 | W'S | 6 | rr | 55 | 97 | 54 | 7 | 6 | 2 | - | 4-6 | 10 | 800 |

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

| District | Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | °F. Dew Point. (23) | Visibility. 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea. 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 08·6 | -10 | SW'W | 5 | ir. | 56 | 75 | 49 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Croydon ... | 10·1 | -14 | SSW | 6 | c/r | 57 | 85 | 51 | 7 | 5 | 2 | - | 9 | 10 | 2000 | 1 | * |
| | S. Farnborough | 09·3 | -14 | WSW | 6 | c | 57 | 75 | 49 | 8 | 6 | - | - | 10 | 10 | 1000 | 0 | * |
| | Boscombe Down | 09·9 | -10 | SW | 6 | r.r. | 55 | 85 | 51 | 7 | 5 | 2 | - | 9+ | 10 | 1200 | 0 | * |
| | Thorney Island | 11·4 | -10 | WSW | 6 | ir. | 58 | 85 | 52 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Lympne ... | 10·6 | -8 | SW | 6 | c | 55 | 85 | 51 | 8 | 5 | 7 | - | 7-8 | 9+ | 900 | 1 | §6 |
| | Manston ... | 09·3 | -16 | SW'S | 5 | c | 55 | 75 | 48 | 8 | 5 | 7 | - | 4-6 | 10 | 1800 | 1 | * |
| 2 | Shoeburyness ... | 09·6 | -10 | SW'W | 5 | c | 56 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 3000 | 1 | * |
| | Felixstowe ... | 07·2 | -20 | SW'S | 5 | r.r. | 55 | 85 | 50 | 7 | 5 | 2 | - | 10 | 10 | 4000 | 1 | 5 |
| | Gorleston ... | 04·7 | -2 | SW'W | 4 | c | 55 | 75 | 48 | 7 | 5 | 4 | - | 7-8 | 7-8 | 1500 | 1 | 4 |
| | Mildenhall ... | 05·3 | -4 | SW | 6 | c | 55 | 85 | 50 | 8 | 5 | 7 | - | 7-8 | 10 | 2000 | 1 | * |
| | Cranwell ... | 02·3 | 0 | SW'W | 6 | bc | 55 | 85 | 52 | 8 | 5 | 3 | - | 4-6 | 4-6 | 2000 | 1 | * |
| 3 | Birmingham ... | 04·1 | -8 | WSW | 5 | c | 56 | 85 | 52 | 8 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| | Upper Heyford | 07·9 | -6 | SW'W | 5 | r.r. | 53 | 97 | 51 | 6 | 5 | - | - | 10 | 10 | 500 | 1 | * |
| 4 | Ross-on-Wye | 05·6 | -8 | SW | 5 | cq | 56 | 97 | 54 | 8 | 6 | - | - | 10 | 10 | 2000 | 1 | * |
| 5 | Hartland Point | 06·8 | -4 | W | 8 | rr | 56 | 97 | 56 | 6 | 6 | 2 | - | 9+ | 10 | 1000 | 1 | 5 |
| | Bristol ... | 08·7 | -12 | WSW | 5 | dd | 54 | 97 | 53 | 5 | - | 2 | - | 10 | 10 | 800 | 1 | * |
| | Portland Bill ... | 11·6 | -6 | W | 6 | o | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| | Plymouth ... | 11·8 | -10 | SW'W | 7 | d.d. | 56 | 97 | 55 | 6 | 5 | - | - | 9 | 10 | 800 | 1 | 5 |
| | The Lizard ... | 11·7 | -8 | WSW | 7 | d.d. | 55 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 6 |
| | Scilly (St. Mary's) | 11·2 | -10 | SW'W | 6 | dd | 56 | 97 | 55 | 5 | 3 | - | - | 10 | 10 | 500 | 1 | 5 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 06·2 | 0 | W'N | 7 | pr | 57 | 97 | 57 | 7 | 8 | - | - | 2-3 | 10 | 1500 | 1 | 5 |
| 7 | Holyhead (Valley) | 03·4 | +6 | W | 5 | bc | 53 | 75 | 44 | 8 | 2 | 6 | - | 1 | 2-3 | 3000 | 1 | 4 |
| | Chester (Sealand) | 02·8 | +6 | W'N | 3 | b | 54 | 75 | 46 | 8 | 8 | - | - | 1 | 1 | 3000 | 1 | * |
| 8 | Manchester ... | 02·5 | +6 | SW | 3 | c/r | 53 | 92 | 51 | 6 | 5 | 4 | - | 7-8 | 7-8 | 2500 | 1 | * |
| 10 | Spurn Head ... | 00·8 | +2 | SW | 5 | cq | 56 | 85 | 50 | 7 | 7 | 6 | - | 7-8 | 9+ | 2500 | 0 | |
| | Catterick ... | 98·1 | +10 | WSW | 3 | b | 52 | 75 | 45 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| | Tynemouth ... | 96·3 | +10 | W | 5 | bcq | 51 | 65 | 40 | 7 | - | 4 | - | 0 | 2-3 | - | 1 | 3 |
| 11 | St. Abbs Head | 93·5 | +8 | W | 4 | bc | 48 | 75 | 41 | 7 | 1 | - | - | 2-3 | 2-3 | 3000 | 0 | 4 |
| | Leuchars ... | 91·9 | +4 | WSW | 5 | b | 48 | 85 | 43 | 8 | 5 | 4 | - | Tr | 1 | 3500 | 1 | * |
| 12 | Renfrew (Abbots I.) | 95·5 | +4 | WSW | 3 | ir. | 50 | 75 | 44 | 8 | 5 | 7 | - | 7-8 | 9 | 2000 | 2 | * |
| | Eskdalemuir ... | 97·0 | +8 | SW'W | 4 | c/pr | 45 | 85 | 42 | 7 | 5 | - | - | 7-8 | 7-8 | 900 | 1 | * |
| | Point of Ayre ... | 99·5 | +8 | W'N | 6 | bc | 52 | 85 | 46 | 8 | 8 | - | - | 2-3 | 2-3 | 2000 | 1 | 5 |
| 13A | Tiree ... | 92·6 | 0 | W | 7 | c/pr | 50 | 92 | 48 | 8 | 8 | - | - | 7-8 | 7-8 | 1800 | 1 | 5 |
| 13B | Stornoway ... | 88·3 | 0 | WSW | 1 | c | 46 | 92 | 45 | 8 | 5 | 7 | - | 7-8 | 10 | 1500 | 2 | 1 |
| 15 | Dalwhinnie ... | 91·0 | +6 | W | 3 | id | 44 | 85 | 39 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| | Aberdeen † ... | 90·9 | +18 | SW | 2 | bc | 45 | 75 | 38 | 7 | 5 | - | - | 2-3 | 2-3 | 3000 | 1 | |
| | Wick ... | 87·6 | +20 | W | 5 | bc | 42 | 92 | 41 | 9 | 8 | 7 | - | 4-6 | 4-6 | 2000 | 1 | * |
| 16 | Sumburgh .. | 82·8 | +42 | WNW | 6 | bc/pr | 47 | 85 | 43 | 8 | 9 | - | - | 4-6 | 4-6 | 1800 | 1 | 6 |
| 17 | Blacksod Point | 01·3 | +4 | WSW | 6 | c | 53 | 85 | 49 | 8 | 6 | - | - | 9 | 9 | 1500 | 1 | 5 |
| 18 | Malin Head ... | 95·9 | +2 | WSW | 6 | c-bc/pr | 52 | 75 | 45 | 8 | 9 | - | - | 7-8 | 7-8 | 1500 | 2 | 6 |
| | Aldergrove ... | 99·6 | +6 | NW | 3 | c | 47 | 85 | 43 | 8 | 5 | 2 | - | 7-8 | 10 | 1200 | 1 | * |
| 19 | Birr Castle ... | 03·8 | +12 | WSW | 2 | bc | 49 | 85 | 45 | 8 | 3 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 08·3 | +10 | W'S | 4 | c-bc | 54 | 85 | 50 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | 5 |
| | Roches Point | 07·5 | +20 | W | 4 | bc | 53 | 85 | 49 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | 5 |

## PAST 24 HOURS.

| Stations | Temperature. Max. Day 7h–18h °F. | Min. Night 18h–7h °F | Min. on Grass °F. | Rainfall. Day 7h–18h mm. | Night 18h–7h mm. | Sunshine 9th Hrs. |
|---|---|---|---|---|---|---|
| London (Kew) | 57 | 55 | 52 | Tr | 0·1 | 1·2 |
| Croydon | 58 | 55 | 52 | - | Tr | 1·8 |
| S. Farnborough | 58 | 55 | 53 | - | - | 2·0 |
| Boscombe Down | 56 | 55 | 51 | Tr | Tr | 0·7 |
| Thorney Island | 59 | 54 | 52 | Tr | Tr | * |
| Lympne | 57 | 54 | 51 | - | Tr | 3·7 |
| Manston | 57 | 53 | 52 | Tr | Tr | 2·1 |
| Shoeburyness | 59 | 55 | 52 | - | - | 1·4 |
| Felixstowe | 57 | 54 | 52 | 0·1 | 0·2 | 3·0 |
| Gorleston | 55 | 54 | 50 | 0·1 | 0·1 | 3·6 |
| Mildenhall | 57 | 54 | 51 | 0·5 | Tr | 1·1 |
| Cranwell | 56 | 53 | 51 | - | 0·1 | 0·3 |
| Birmingham | 56 | 52 | 52 | - | 0·2 | 1·3 |
| Upper Heyford | 57 | 51 | 50 | Tr | 0·2 | * |
| Ross-on-Wye | 57 | 53 | 51 | Tr | 0·1 | 0·7 |
| Hartland Point | 56 | 54 | 52 | 0·2 | 3 | 0·0 |
| Bristol | 56 | 52 | 49 | 1 | 4 | 0·4 |
| Portland Bill | 58 | 54 | * | 0·3 | - | * |
| Plymouth | 59 | 54 | 53 | Tr | 0·3 | 0·7 |
| The Lizard | 58 | 53 | * | Tr | 0·5 | 1·2 |
| Scilly (St. Mary's) | 59 | 54 | * | - | 0·2 | 1·7 |
| Guernsey | | | | | | |
| Pembroke | 56 | 53 | * | 0·1 | 7 | 0·0 |
| Holyhead (Valley) | 57 | 52 | | 4 | 5 | * |
| Chester (Sealand) | 60 | 54 | 48 | 1 | 8 | 0·9 |
| Manchester | 55 | 52 | 51 | 2 | 14 | * |
| Spurn Head | 56 | 55 | * | Tr | - | 0·8 |
| Catterick | 56 | 51 | 45 | 0·1 | 0·2 | 0·0 |
| Tynemouth | 57 | 51 | 47 | 0·4 | - | * |
| St. Abbs Head | 55 | 48 | * | Tr | 0·2 | |
| Leuchars | 56 | 45 | 42 | 1 | 0·1 | 0·0 |
| Renfrew (Abbots I.) | 54 | 48 | | * | | 0·0 |
| Eskdalemuir | 51 | 44 | 43 | 14 | 16 | 0·0 |
| Point of Ayre | 55 | 51 | * | 6 | 2 | 0·0 |
| Tiree | 55 | 43 | * | 4 | 2 | 0·0 |
| Stornoway | 54 | 45 | * | 7 | 2 | 0·0 |
| Dalwhinnie | 53 | 41 | 38 | 12 | 3 | 0·0 |
| Aberdeen † | 57 | 44 | 31 | - | - | 0·0 |
| Wick | 52 | 42 | 36 | 2 | 2 | * |
| Sumburgh | 52 | 46 | 43 | 7 | 3 | |
| Blacksod Point | 55 | 49 | * | 7 | 4 | * |
| Malin Head | 55 | 51 | | 9 | 1 | 0·0 |
| Aldergrove | 54 | 46 | 43 | 2 | 5 | 0·0 |
| Birr Castle | 56 | 48 | 44 | 0·5 | 9 | 0·0 |
| Valentia Obsy. | 57 | 53 | 48 | 0·4 | 7 | 0·0 |
| Roches Point | 57 | 52 | * | 0·3 | 5 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 9th October ... 18h. G.M.T.

| III | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|
| 109 | 62 | 64646 | 49468 | | 87 | 22746 | 54767 | |
| 115 | 52 | 64735 | 57568 | | | | | |
| 203 | | | | | 6- | 61738 | 20668 | |
| 206 | 62 | 62844 | 22468 | | 6- | 61846 | 55566 | |
| 210 | | | | | 52 | 22855 | 18567 | |
| 220 | 57 | 61954 | 52428 | | | | | |
| 230 | 62 | 62635 | 53568 | | 5- | 61734 | 53668 | |
| 245 | 57 | 61744 | 53568 | | 57 | 61747 | 53567 | |
| 260 | 62 | 64745 | 53668 | | 57 | 51853 | 55765 | |
| 278 | 52 | 21846 | 22468 | | 52 | 52737 | 20468 | |
| 279 | 62 | 64636 | 55668 | | 6- | 62428 | 00054 | |
| 285 | 6- | 63628 | 22668 | | 6- | 63627 | 24767 | |
| 288 | 57 | 02846 | 53528 | | 52 | 22847 | 52668 | |
| 575 | 52 | 61736 | 55568 | | 52 | 64636 | 55768 | |
| 301 | 62 | 62645 | 57568 | | 62 | 62635 | 36668 | |
| 321 | 52 | 02745 | 22427 | | | | | |
| 299 | 5- | 05648 | 20428 | | 8- | 02747 | 20527 | |
| 292 | 57 | 22846 | 24467 | | 62 | 62436 | 19668 | |
| 310 | -- | 21628 | 24558 | | -- | 02628 | 20528 | |
| 614 | 57 | 05656 | 55427 | | | | | |

01h. G.M.T. 10th October ... 07h. G.M.T.

| $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 3- | 14883 | 56883 | | 36 | 10853 | 35484 | |
| 87 | 15844 | 91886 | | 52 | 61844 | 57566 | |
| 50 | 01862 | 57762 | | 54 | 01854 | 24385 | |
| 50 | 01961 | 52661 | | 83 | 01954 | 20384 | |
| 5- | 02847 | 20447 | | 87 | 81756 | 54387 | |
| 00 | 01880 | 55461 | | | | | |
| 50 | 05663 | 53583 | | 50 | 01753 | 53513 | |
| 50 | 22743 | 58463 | | | | | |
| 02 | 62448 | 55768 | | 8- | 02755 | 55425 | |
| 50 | 01754 | 52624 | | 50 | 01861 | 18311 | |
| 5- | 02855 | 55563 | | 50 | 01853 | 57513 | |
| 62 | 64634 | 55768 | | 50 | 01764 | 26514 | |
| 51 | 61754 | 53668 | | 97 | 81845 | 26466 | |
| 8- | 03743 | 22528 | | 20 | 02754 | 22464 | |
| 62 | 61745 | 52468 | | 20 | 01862 | 23362 | |
| | | | | | | | |
| 62 | 63545 | 55568 | | 62 | 61546 | 55567 | |

13h. G.M.T. 9th October ... 18h. G.M.T.

| III | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|
| 333 | 62 | 62745 | 55568 | | 6- | 52733 | 54768 | |
| 334 | | | | | | | | |
| 340 | 57 | 02955 | 5-527 | | 5- | 51848 | 55558 | |
| 136 | 51 | 61655 | 22468 | | 57 | 22754 | 20667 | |
| 336 | 57 | 02756 | 28428 | | | | | |
| 350 | 57 | 02754 | 23427 | | 51 | 51747 | 55528 | |
| 368 | 53 | 25845 | 22587 | | 62 | 24636 | 56788 | |
| 379 | 8- | 02858 | 22428 | | 5- | 51748 | 53658 | |
| 390 | 57 | 05658 | 22428 | | 52 | 61547 | 53528 | |
| 382 | 57 | 03854 | 33438 | | 62 | 21847 | 21468 | |
| 438 | 57 | 02754 | 25518 | | 87 | 14754 | 24788 | |
| 430 | 57 | 02754 | 22427 | | 57 | 61866 | 24527 | |
| 409 | 74 | 02867 | 55528 | | 52 | 62847 | 22668 | |

01h. G.M.T. 10th October ... 07h. G.M.T.

| $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN | $C_L$ | $C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 52 | 64645 | 53768 | | 56 | 01853 | 22413 | |
| | | | | -- | 25644 | 24585 | |
| 5- | 61748 | 51658 | | 97 | 81745 | 22358 | |
| 57 | 02857 | 51568 | | 67 | 02845 | 25668 | |
| | | | | 62 | 63526 | 24568 | |
| 5- | 02747 | 55557 | | 5- | 61748 | 52568 | |
| 5- | 05647 | 55767 | | 02 | 62638 | 57668 | |
| 5- | 21747 | 53657 | | 5- | 51528 | 53658 | |
| 57 | 05856 | 56768 | | 67 | 22636 | 55667 | |
| 5- | 01754 | 55524 | | 67 | 51746 | 54567 | |
| 8- | 14648 | 24888 | | 87 | 25743 | 24837 | |
| 5- | 02748 | 55528 | | 5- | 61758 | 55528 | |
| 5- | 02758 | 23668 | | 02 | 64518 | 55768 | |

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 October
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 * .. ... | bccwc | cir. | cir. | Kew 24 hours ended 7h. Max. Time 0·1 16-18hrs 9th. Min. Time 0·1 0-7hrs 10th |
| Croydon ... | ow.c | c | owirc | |
| Greenwich ... | c | c | cbcrcq | |
| Camden Square | c | c | * | |
| *Kensington ... | cbc | bcc | * | |
| Hampstead ... | bc | od | od | |

| Stations. | Temperature Day Max °F | Night Min °F | Min on grass °F | Rainfall Day mm | Night mm | Sunshine to sunset hrs Yesterday | Humidity 15h % | 9h % To-day |
|---|---|---|---|---|---|---|---|---|
| Kew ... ... | 57 | 55 | 52 | Tr | 0·1 | 1·2 | * | * |
| Croydon ... | 58 | 55 | 52 | - | Tr | 1·8 | * | * |
| Greenwich .. | 58 | 54 | 50 | - | 0·3 | 1·3 | 69 | 77 |
| Westminster .. | 59 | 53 | 52 | | 0·1 | * | 77 | 83 |
| Regents Park | 58 | 52 | 52 | - | Tr | - | 72 | 76 |
| Camden Square | 58 | 51 | 51 | - | 0·3 | * | * | 79 |
| Kensington .. | 58 | 46 | 43 | - | 0·2 | - | 75 | 79 |
| Hampstead | 57 | 52 | 48 | - | 0·1 | - | * | 94 |

SECRET

Page 1 BRITISH SECTION

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

Sunday 11th October 1942

No. 29543

## OBSERVATIONS at 13h. G.M.T. 10th October

| 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) | 07·3 | −10 | W | 4 | c-bc/pr | 60 | 75 | 51 | 8 | 8 | – | 1 | 4-6 | 7-8 | 1500 |
| | Croydon | 08·8 | −10 | SWS | 7 | bc/pr | 62 | 85 | 56 | 8 | 9 | – | 3 | 4-6 | 4-6 | 1800 |
| | S. Farnborough | 08·2 | −10 | WSW | 6 | c | 61 | 75 | 53 | 8 | 7 | 7 | 1 | 7-8 | 9 | 1500 |
| | Boscombe Down | 09·4 | 0 | W | 5 | bc | 60 | 65 | 56 | 8 | 2 | 6 | 9 | 2-3 | 4-6 | 2000 |
| | Thorney Island | 10·0 | −8 | WSW | 6 | r.r. | 59 | 85 | 55 | 6 | 5 | 2 | – | 9 | 10 | 1500 |
| | Lympne | 09·3 | −14 | SW | 5 | id. | 57 | 92 | 57 | 7 | 5 | 2 | – | 9+ | 10 | 600 |
| | Manston | 08·2 | −6 | SWW | 4 | r. | 59 | 85 | 55 | 8 | 6 | – | – | 9 | 9 | 1800 |
| 2 | Shoeburyness | 08·2 | −6 | SSW | 4 | c | 61 | 75 | 54 | 8 | 5 | – | – | 9 | 9 | 2000 |
| | Felixstowe | 06·0 | −10 | SSW | 5 | c-bc | 60 | 75 | 53 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 |
| | Gorleston | 04·4 | −2 | WNW | 3 | c-bc/pr | 56 | 85 | 50 | 7 | 8 | – | – | 7-8 | 7-8 | 1500 |
| | Mildenhall | 05·1 | +2 | W | 5 | bcq | 60 | 65 | 49 | 9 | 8 | – | – | 4-6 | 4-6 | 4000 |
| | Cranwell | 04·1 | +8 | WS | 5 | c-bc | 59 | 55 | 43 | 8 | 8 | – | – | 7-8 | 7-8 | 2500 |
| 3 | Birmingham | 06·2 | +4 | W | 4 | bc | 59 | 55 | 44 | 8 | 8 | – | – | 4-6 | 4-6 | 2500 |
| | Upper Heyford | 06·8 | +2 | WSW | 5 | bc | 60 | 55 | 42 | 8 | 2 | – | – | 4-6 | 4-6 | 3000 |
| 4 | Ross-on-Wye | 07·7 | +8 | W | 4 | c-bc | 59 | 55 | 45 | 8 | 8 | – | – | 7-8 | 7-8 | 3500 |
| 5 | Hartland Point | 10·1 | +4 | WNW | 5 | bc | 56 | 75 | 48 | 8 | 2 | – | – | 4-6 | 4-6 | 2000 |
| | Bristol | 09·4 | +6 | W | 4 | bcjp | 60 | 65 | 48 | 8 | 2 | 6 | – | 4-6 | 4-6 | 2500 |
| | Portland Bill | 10·7 | +2 | W | 6 | c | 58 | 92 | 56 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth | 11·9 | +4 | WN | 4 | bc | 60 | 75 | 51 | 8 | 1 | 4 | 1 | 4-6 | 4-6 | 2500 |
| | The Lizard | 12·4 | +4 | W | 5 | bc | 56 | 97 | 56 | 8 | 8 | 6 | – | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 13·1 | +8 | WN | 4 | bc | 60 | 75 | 50 | 7 | 5 | 4 | – | 2-3 | 4-6 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 09·1 | +4 | WN | 7 | bcq | 57 | 85 | 50 | 8 | 2 | 4 | – | 2-3 | 4-6 | 2500 |
| 7 | Holyhead (Valley) | 05·3 | +2 | SWW | 6 | c | 56 | 75 | 44 | 8 | 8 | 6 | – | 9 | 9+ | 3000 |
| | Chester (Sealand) | 05·1 | +8 | WSW | 3 | c-bc | 59 | 55 | 42 | 8 | 8 | 6 | – | 7-8 | 7-8 | 3000 |
| 8 | Manchester | 04·7 | +2 | WSW | 5 | bc | 58 | 55 | 44 | 8 | 2 | 6 | – | 2-3 | 4-6 | 2000 |
| 10 | Spurn Head | 02·6 | +8 | W | 7 | bcq | 58 | 55 | 43 | 7 | 7 | 6 | – | 2-3 | 4-6 | 4000 |
| | Catterick | 00·0 | +4 | WS | 6 | bc | 57 | 65 | 45 | 8 | 2 | – | 3 | 2-3 | 2-3 | 2500 |
| | Tynemouth | 97·8 | +4 | W | 8 | bc | 56 | 65 | 43 | 7 | 2 | – | – | 4-6 | 4-6 | 4000 |
| 11 | St. Abbs Head | 90·6 | −2 | W | 4 | b-bc | 54 | 65 | 47 | 7 | 1 | 4 | – | 4-6 | 4-6 | 4000 |
| | Leuchars | 94·2 | +8 | W | 5 | bc/pr | 53 | 85 | 47 | 9 | 3 | 6 | 3 | 2-3 | 2-3 | 2000 |
| 12 | Renfrew (Abbots I.) | 97·1 | +12 | WS | 5 | c-bc/pr | 51 | 75 | 45 | 8 | 3 | 6 | 1 | 4-6 | 7-8 | 2000 |
| | Eskdalemuir | 98·5 | +14 | W | 5 | pr | 45 | 85 | 40 | 6 | 6 | 2 | – | 7-8 | 10 | 1100 |
| | Point of Ayre | 01·2 | +2 | WN | 6 | c | 56 | 75 | 49 | 8 | 8 | – | – | 9 | 9 | 3000 |
| 13A | Tiree | 96·2 | +20 | WNW | 6 | bc | 54 | 75 | 46 | 8 | 8 | 6 | – | 2-3 | 4-6 | 1500 |
| 13B | Stornoway | 93·7 | +34 | NNW | 3 | c | 48 | 85 | 44 | 8 | 5 | 7 | 8 | 4-6 | 10 | 1500 |
| 15 | Dalwhinnie | 94·5 | +10 | WSW | 4 | c-bc | 45 | 85 | 42 | 8 | 5 | 4 | – | 4-6 | 7-8 | 1500 |
| | Aberdeen | 92·5 | +4 | WN | 3 | c-bc | 54 | 65 | 41 | 8 | 8 | – | 3 | 7-8 | 7-8 | 500 |
| | Wick | 92·0 | +20 | NNW | 4 | c/r | 48 | 85 | 44 | 8 | 8 | 3 | 1 | 7-8 | 9 | 2000 |
| 16 | Sumburgh | 88·7 | +24 | WNW | 6 | c | 47 | 75 | 39 | 8 | 3 | – | 6 | 4-6 | 9 | 2000 |
| 17 | Blacksod Point | 04·4 | +10 | W | 6 | pr | 56 | 75 | 49 | 8 | 9 | – | – | 7-8 | 7-8 | 1500 |
| 18 | Malin Head | 99·1 | +18 | NWW | 7 | c-bc | 52 | 75 | 45 | 8 | 9 | – | – | 7-8 | 7-8 | 1500 |
| | Aldergrove | 01·3 | +12 | WN | 5 | c-bc | 55 | 65 | 42 | 8 | 8 | – | – | 7-8 | 7-8 | 1800 |
| 19 | *Birr Castle | 06·1 | +10 | W | 3 | c-bc | 55 | 75 | 48 | 8 | 8 | – | – | 7-8 | 7-8 | 1500 |
| 20 | Valentia Obsy. | 10·5 | +10 | WS | 4 | bc/pr | 56 | 85 | 52 | 8 | 8 | 4 | – | 2-3 | 2-3 | 2500 |
| | Roches Point | 09·4 | +2 | WNW | 4 | bc/pr | 57 | 75 | 50 | 8 | 3 | – | – | 4-6 | 4-6 | 1500 |

## OBSERVATIONS at 18h. G.M.T. 10th October

| 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 | +22 | SWW | 2 | zo | 55 | 65 | 45 | 6 | 5 | 5 | 1 | Tr | 1 | 1500 | 1 | • |
| Croydon | 10·2 | +12 | SW | 4 | zo | 55 | 75 | 47 | 6 | 5 | 4 | 2 | Tr | 1 | 3000 | 1 | • |
| S. Farnborough | 10·0 | +16 | WSW | 2 | b | 55 | 65 | 43 | 8 | 4 | 5 | 1 | Tr | 1 | 2500 | 0 | • |
| Boscombe Down | 10·8 | +10 | WN | 3 | bc | 53 | 75 | 47 | 7 | 5 | 3 | – | 2-3 | 4-6 | 2500 | 0 | • |
| Thorney Island | 10·6 | +8 | W | 4 | c | 57 | 55 | 40 | 8 | 2 | – | 2 | 7-8 | 9+ | 4000 | 0 | |
| Lympne | 10·2 | +14 | WS | 2 | b | 54 | 92 | 52 | 8 | – | – | 1 | 0 | 1 | – | 1 | 4 |
| Manston | 09·0 | +14 | WSW | 3 | b-bc | 55 | 65 | 45 | 7 | 5 | 4 | – | Tr | 2-3 | 1500 | 1 | • |
| Shoeburyness | 09·6 | +20 | W | 3 | bc | 56 | 65 | 46 | 8 | 5 | – | – | 4-6 | 4-6 | 3000 | 1 | • |
| Felixstowe | 08·2 | +18 | WSW | 3 | b-bc | 57 | 65 | 45 | 8 | 5 | – | 9 | 1 | 2-3 | 4000 | 0 | 3 |
| Gorleston | 07·3 | +22 | WN | 3 | b-bc | 55 | 65 | 45 | 7 | – | 7 | – | 0 | 2-3 | – | 0 | 3 |
| Mildenhall | 07·8 | +22 | WSW | 4 | c-bc | 55 | 75 | 46 | 8 | 4 | 4 | – | 7-8 | 7-8 | 3000 | 1 | • |
| Cranwell | 06·3 | +18 | WSW | 4 | b-bc | 52 | 75 | 45 | 7 | 4 | 6 | – | 2-3 | 2-3 | 2500 | 0 | • |
| Birmingham | 08·0 | +10 | WSW | 3 | b-bc | 53 | 75 | 46 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | • |
| Upper Heyford | 08·6 | +10 | WSW | 4 | bc | 53 | 75 | 44 | 8 | 4 | – | – | 4-6 | 4-6 | 3500 | 0 | • |
| Ross-on-Wye | 09·1 | +10 | SWW | 3 | b-bc | 54 | 75 | 47 | 8 | 8 | – | – | 2-3 | 2-3 | 3000 | 1 | • |
| Hartland Point | 11·0 | +6 | WNW | 5 | c-bc | 56 | 85 | 50 | 7 | 8 | 6 | – | 4-6 | 7-8 | 2000 | 0 | 4 |
| Bristol | 10·9 | +12 | W | 4 | pr | 53 | 92 | 50 | 6 | 2 | 6 | – | 9 | 9+ | 4000 | 1 | • |
| Portland Bill | 11·4 | +4 | W | 5 | c | 57 | 85 | 53 | 8 | 5 | – | – | 9 | 9 | 2500 | 1 | 4 |
| Plymouth | 13·7 | +8 | WN | 4 | c-bc | 55 | 85 | 51 | 7 | 8 | 6 | – | Tr | 7-8 | 2000 | 1 | 4 |
| The Lizard | 13·4 | +10 | W | 5 | c-bc/pr | 54 | 85 | 50 | 8 | 8 | 6 | – | 7-8 | 7-8 | 1500 | 1 | 4 |
| Scilly (St. Mary's) | 13·7 | +6 | WS | 5 | cjp | 55 | 85 | 51 | 8 | 8 | 7 | – | 7-8 | 9+ | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 09·6 | +4 | WN | 7 | c-bcq | 56 | 85 | 52 | 8 | 4 | 4 | – | 4-6 | 7-8 | 2500 | 1 | 5 |
| Holyhead (Valley) | 06·6 | +14 | WSW | 5 | b-bc | 54 | 75 | 45 | 8 | 2 | 6 | – | Tr | 2-3 | 2500 | 1 | 4 |
| Chester (Sealand) | 06·0 | +10 | WSW | 2 | bc | 53 | 75 | 45 | 8 | 8 | 4 | – | 4-6 | 4-6 | 3500 | 1 | • |
| Manchester | 06·3 | +14 | SSW | 4 | bc | 52 | 75 | 45 | 6 | 2 | 6 | – | 2-3 | 4-6 | 2500 | 1 | • |
| Spurn Head | 05·1 | +18 | WS | 4 | c-bc | 56 | 65 | 46 | 7 | 5 | 6 | – | 2-3 | 7-8 | 2500 | 2 | 4 |
| Catterick | 02·4 | +24 | W | 4 | b | 51 | 75 | 43 | 8 | 2 | – | – | 1 | 1 | 2500 | 0 | • |
| Tynemouth | 00·9 | +16 | W | 5 | b-bc | 51 | 75 | 43 | 6 | 2 | – | – | 2-3 | 2-3 | 3000 | 1 | 3 |
| St. Abbs Head | 98·4 | +18 | W | 4 | bc | 50 | 75 | 44 | 7 | 5 | 4 | – | 2-3 | 4-6 | 4000 | 0 | 4 |
| Leuchars | 98·0 | +26 | W | 2 | bc | 49 | 85 | 45 | 8 | 5 | 4 | – | 4-6 | 4-6 | 5000 | 1 | • |
| Renfrew (Abbots I.) | 00·6 | +22 | WSW | 3 | c-bc | 51 | 75 | 43 | 8 | 3 | 7 | – | 4-6 | 7-8 | 1800 | 2 | • |
| Eskdalemuir | 00·9 | +18 | WSW | 5 | c-bc | 47 | 75 | 42 | 8 | 5 | – | – | 7-8 | 7-8 | 1600 | 1 | • |
| Point of Ayre | 03·1 | +10 | NWW | 6 | c/pr | 52 | 92 | 49 | 8 | 8 | – | – | 9+ | 9+ | 4500 | 1 | 5 |
| Tiree | 00·5 | +24 | NWW | 6 | bc/pr | 49 | 85 | 45 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 | 0 | 5 |
| Stornoway | 97·9 | +18 | – | 0 | c | 45 | 85 | 42 | 8 | 5 | 7 | – | 7-8 | 9+ | 2500 | 1 | 1 |
| Dalwhinnie | 99·9 | +24 | WSW | 3 | c | 43 | 85 | 39 | 8 | 5 | – | – | 9+ | 9+ | 1500 | 1 | • |
| Aberdeen | 97·6 | +28 | W | 2 | c | 47 | 85 | 43 | 7 | 7 | – | – | 9+ | 9+ | 2500 | 1 | 2 |
| Wick | 96·6 | +20 | NWW | 5 | bc | 44 | 75 | 40 | 9 | 5 | 3 | 6 | 2-3 | 4-6 | 3500 | 1 | • |
| Sumburgh | 93·0 | +32 | WNW | 6 | bc/pr | 44 | 75 | 37 | 8 | 2 | 6 | 1 | 4-6 | 4-6 | 2000 | 1 | 5 |
| Blacksod Point | 09·1 | +34 | WN | 5 | bc/pr | 50 | 75 | 43 | 8 | 3 | – | – | 4-6 | 4-6 | 2500 | 1 | 4 |
| Malin Head | 02·6 | +30 | WN | 6 | bc/pr | 50 | 75 | 43 | 8 | 9 | – | – | 4-6 | 4-6 | 2500 | 2 | 4 |
| Aldergrove | 04·2 | +26 | WNW | 5 | pr | 49 | 85 | 45 | 8 | 4 | – | – | 9 | 9 | 1800 | | • |
| *Birr Castle | 08·3 | +20 | W | 2 | bc | 50 | 85 | 46 | 8 | 8 | – | – | 4-6 | 4-6 | 1500 | 1 | • |
| Valentia Obsy. | 12·9 | +16 | WNW | 4 | c/pr | 53 | 75 | 46 | 8 | 8 | 3 | – | 9 | 9+ | 2500 | 1 | 4 |
| Roches Point | 11·4 | +22 | WNW | 4 | b-bc | 54 | 85 | 50 | 8 | 3 | – | – | 2-3 | 2-3 | 1500 | 1 | 4 |

## PAST 24 HOURS. WEATHER.

| Stations | 7h.—13h. 10th (39) | 13h.—18h. 10th (40) | 18h. 10th to 1h. 11th (41) | 1h.—7h. 11th (42) |
|---|---|---|---|---|
| London (Kew) | c pr.bc | bcybz. | bcm.bw | bw |
| Croydon | ccir.c | bccbcyb | c.dmdcbc | c,bm. |
| S. Farnborough | c.d.r.id. | cyb | bbccbcw | bcwb |
| Boscombe Down | cr.r.ir.bc | bcybc | cprmb | bw |
| Thorney Island | cr.r.m. | cr.r.bcc | cpm.b | bw |
| Lympne | c cdr. | cDrm.bc | bbcbw | bcbwb |
| Manston | cir. | cpr.bc | bcm.bm. | bcom.w |
| Shoeburyness | cir.c | cbc | bcb | bbcwm. |
| Felixstowe | cr.r.ir.cbc | bcir.cbcy | bz.bm. | bbcmb |
| Gorleston | cpr. | bc | bcb | bbc |
| Mildenhall | c,bc | bcbcyc | bcb | bbw |
| Cranwell | cprcm.bc | bcybc | bcb | bcbm.w |
| Birmingham | oirbc | bc | | bcpr. |
| Upper Heyford | cr.r.pr bc | bcybc | b | bmb |
| Ross-on-Wye | cq.p bcc | bcebc | bcbb | bbcb |
| Hartland Point | rcbcc | bcc | cbc | bccir |
| Bristol | cddid. | bccpr. | cpr.bcm.b | b |
| Portland Bill | orrc | c | bc | bc |
| Plymouth | cd.d.c | bcc | bbcb | bccw |
| The Lizard | ddcbc | bcprc | cbc | bcc |
| Scilly (St. Mary's) | bddbc | bcp.qc | cprobc | bc |
| Guernsey | | | | |
| Pembroke | pr.bcq | bccq | bcq | bcq |
| Holyhead (Valley) | bcc | cprc | bcb | bbc |
| Chester (Sealand) | kcbc | crrbc | bcpr. | bcpr. |
| Manchester | cprbcy | bcypr | bbcpr | bc |
| Spurn Head | bcq | c | b | bz. |
| Catterick | b | bcb | pr.bcb | b |
| Tynemouth | bcq | bcqbc | bc | cbc |
| St. Abbs Head | bbc | bc | bcb | b |
| Leuchars | bcpr | bcbbc | bbw | bwbwy |
| Renfrew (Abbots I.) | cpr.c | cpr.bcprbc | bcpr. | bccprbc |
| Eskdalemuir | pr.PR | c.pr | cpr. | cpr.c |
| Point of Ayre | bbcc | cprbcc | cbcb | bbccb |
| Tiree | prbcjp | bcpr | bcpr. | prbc |
| Stornoway | cpr | c | cprbc | bccpr. |
| Dalwhinnie | c Pr | c | * | cpr |
| Aberdeen | cbc | cpr bcc | cbc | bcbx |
| Wick | cid.r.r.c | cbc | bccbc | pr r.r.pr.bc |
| Sumburgh | bc pr.c | cprprbc | bcpr.bc | bc |
| Blacksod Point | pr | pr | bc | bc |
| Malin Head | pr | pr | pr | pr |
| Aldergrove | cbcs or.c | bcPrcb | cprcbcb | bcpr.c |
| *Birr Castle | pr | pr | • | bc |
| Valentia Obsy. | pr | pr | bc | bc |
| Roches Point | pr | pr | pr | bc |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 11th October 1942.

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands | Moderate Northwesterly winds backing southwesterly; variable cloud today; cloudless tonight, increasing high and medium cloud tomorrow. Average day temperature; local ground frost tonight. |
| 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 | Moderate Northwesterly winds backing southwesterly; moderate in South, fresh in North. Fair today; rain spreading from west during the night and tomorrow morning, but amounts slight in South. Average day temperatures; local ground frost in Midlands tonight. |
| 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Moderate West to Northwest winds backing Southwest, fresh, strong locally, then veering tomorrow. Variable cloud today; low cloud and rain spreading from west this evening and tonight, |
| 16 Orkneys and Shetlands; 17 N.W. Ireland; 18 N.E. Ireland | followed by broken cloud and showers. Average temperature |
| 19 S.E. Ireland; 20 S.W. Ireland | Moderate Southwesterly winds; fair at first; low cloud and rain spreading from West this evening followed by generally cloudy conditions. Average temperature |

### GENERAL INFERENCE

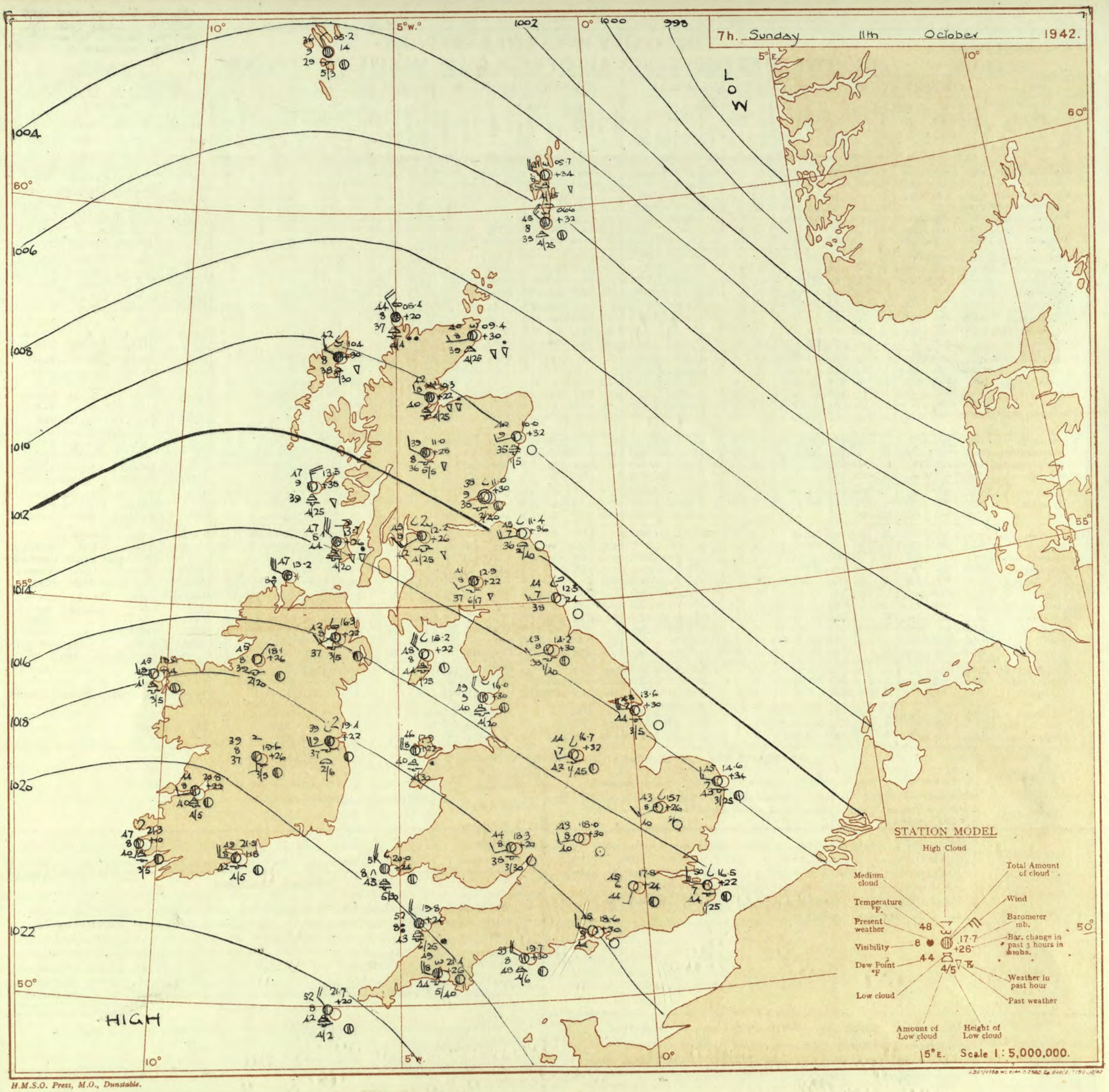
A ridge of high pressure is moving east across the British Isles, and a trough of low pressure is approaching from the west, associated with a depression to the southwest of Iceland. Weather will be mainly fair today, but rain will reach Northern Ireland and west Scotland this evening and spread eastwards to all but south and south-east England. Showery conditions will spread across Norther Ireland and Scotland tomorrow morning. Average day temperatures; local ground frost in England tonight

### FURTHER OUTLOOK

Showery in North; mild in South, with rather widespread low cloud and probably appreciable 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




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

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

**Explanation of Frontal Lines shown on Charts**

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

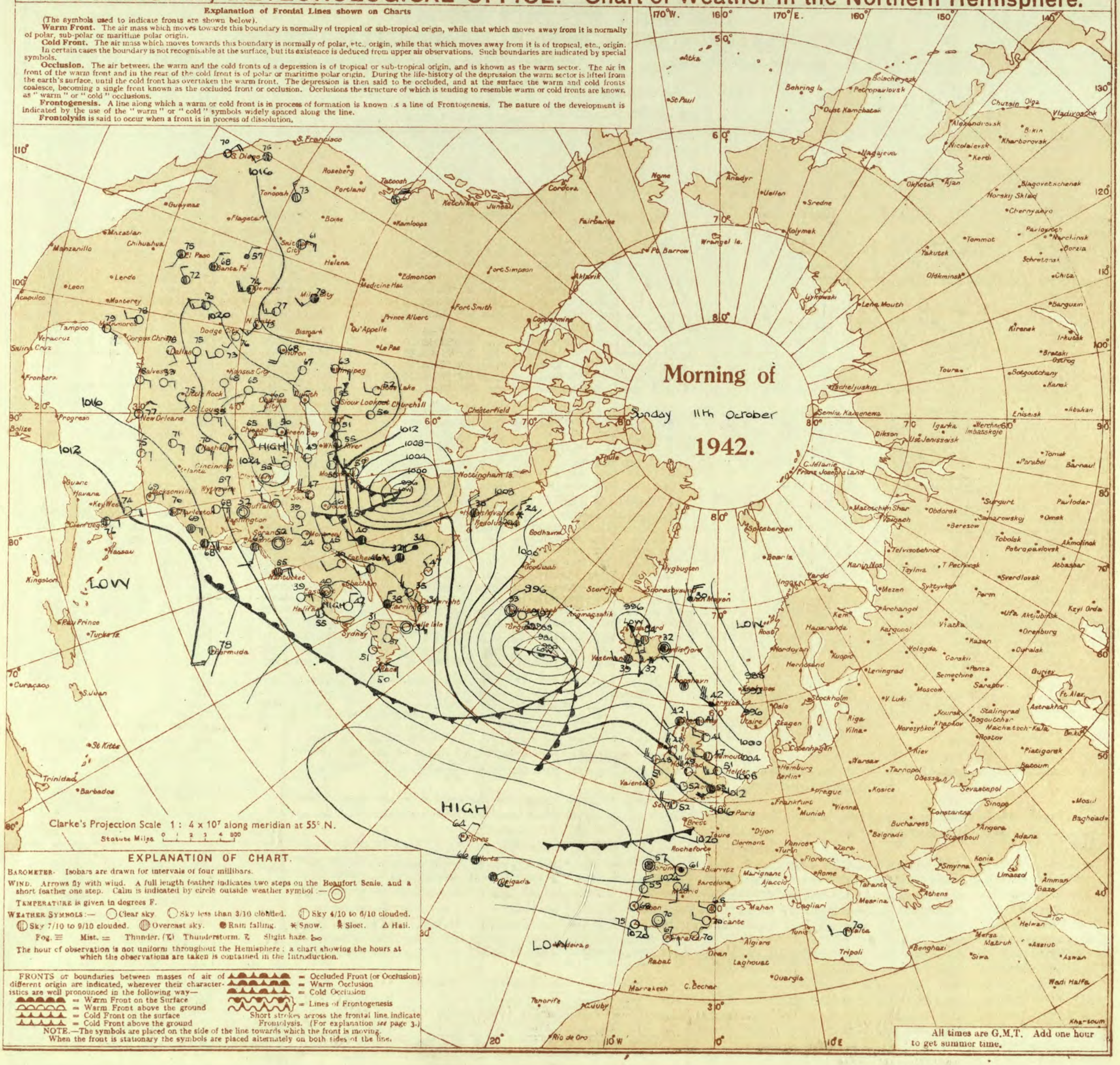
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Sunday 11th October 1942

No. 29543

## OBSERVATIONS at 1 hr. G.M.T. 11th October

| 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 | * | * | * | * | * | 51 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 13·5 | +14 | SW | 4 | c | 51 | 92 | 49 | 7 | 5 | - | - | 9 | 9 | 4300 |
| | S. Farnborough | 226 | 13·3 | +14 | W | 3 | b-bc | 50 | 85 | 46 | 8 | 5 | 4 | - | 2-3 | 2-3 | 4000 |
| | Boscombe Down | 417 | 14·1 | +16 | W'S | 2 | b | 46 | 97 | 45 | 7 | 5 | - | - | Tr | Tr | 5700 |
| | Thorney Island | 10 | 13·8 | +10 | W'N | 3 | b | 52 | 92 | 50 | 7 | 5 | - | - | 1 | 1 | 4000 |
| | Lympne | 283 | 13·2 | +12 | W | 3 | b | 48 | 92 | 46 | 8 | - | 4 | - | 0 | 1 | - |
| | Manston | 154 | 12·2 | +8 | W'S | 3 | z₀ | 48 | 85 | 45 | 6 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 11·0 | +10 | SW'W | 4 | z₀ | 51 | 85 | 47 | 7 | - | - | - | 0 | 0 | - |
| | Gorleston | 5 | 09·8 | +10 | W'N | 3 | b | 50 | 85 | 45 | 7 | - | 4 | - | 0 | 1 | - |
| | Mildenhall | 15 | 10·7 | +12 | WSW | 4 | b | 49 | 85 | 45 | 8 | - | - | - | 0 | 0 | - |
| | Cranwell | 203 | 09·9 | +14 | WSW | 4 | z₀ | 48 | 85 | 44 | 6 | - | 7 | - | 0 | 4-6 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 11·9 | +12 | WSW | 2 | b | 45 | 92 | 44 | 7 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 14·6 | +16 | NW | 4 | bc | 54 | 85 | 48 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 14·5 | +20 | W | 2 | b | 49 | 85 | 45 | 7 | 5 | - | - | 1 | 1 | 2500 |
| | Portland Bill | 32 | 14·5 | +18 | W | 5 | c | 55 | 85 | 53 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth | 82 | 16·1 | +14 | W | 3 | b | 52 | 85 | 49 | 8 | 5 | - | - | Tr | Tr | 4000 |
| | The Lizard | 240 | 16·7 | +16 | NW | 5 | b-bc | 53 | 85 | 47 | 8 | 8 | - | - | 2-3 | 2-3 | 2000 |
| | Scilly (St. Mary's) | 163 | 17·6 | +14 | WNW | 4 | b-bc | 52 | 92 | 50 | 8 | 8 | - | - | 2-3 | 2-3 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 15·0 | +20 | NW | 5 | b-bcq | 52 | 85 | 47 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| 7 | Holyhead (Valley) | 32 | 12·8 | +26 | NW | 5 | b-bc | 49 | 75 | 41 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 |
| | Chester (Sealand) | 16 | 11·2 | +28 | W | 3 | bc/pr | 50 | 75 | 44 | 7 | 5 | - | - | 4-6 | 4-6 | 3100 |
| 8 | Manchester | 235 | 10·7 | +24 | WSW | 3 | bc | 48 | 85 | 42 | 7 | 4 | - | - | 4-6 | 4-6 | 4000 |
| 10 | Spurn Head | 29 | 08·1 | +14 | WSW | 5 | b | 51 | 75 | 45 | 7 | 5 | - | - | 1 | 1 | 2500 |
| | Catterick | 175 | 08·4 | +22 | W | 3 | b | 47 | 85 | 41 | 7 | - | - | - | 0 | 0 | - |
| | Tynemouth | 108 | 06·7 | +20 | W | 4 | b-bc | 47 | 85 | 43 | 6 | - | 3 | - | 0 | 2-3 | - |
| 11 | St. Abbs Head | 280 | 04·1 | +26 | W | 4 | b | 48 | 75 | 39 | 7 | 5 | - | - | 1 | 1 | 4000 |
| | Leuchars | 36 | 04·9 | +30 | - | 0 | b-bc | 40 | 92 | 38 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 |
| 12 | Renfrew (Abbots I.) | 19 | 07·5 | +28 | W'S | 3 | b | 44 | 85 | 39 | 7 | 2 | - | - | 1 | 1 | 2500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 09·9 | +28 | NW'N | 6 | b-bc | 50 | 85 | 49 | 8 | 4 | * | * | 2·3 | 2·3 | 2500 |
| 13A | Tiree | 22 | 06·8 | +20 | WNW | 5 | pr | 47 | 85 | 42 | 8 | 3 | - | - | 7-8 | 7-8 | 2000 |
| 13B | Stornoway | 80 | 03·7 | +26 | SW | 2 | bc | 42 | 97 | 41 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 04·3 | +28 | WNW | 1 | b-bc | 41 | 92 | 39 | 9 | 5 | - | - | 2-3 | 2-3 | 3500 |
| | Wick | 114 | 03·7 | +30 | W'N | 2 | bc | 41 | 85 | 38 | 8 | 5 | - | - | 4-6 | 4-6 | 3500 |
| 16 | Sumburgh | 19 | 00·3 | +32 | NW | 5 | bc | 42 | 75 | 37 | 8 | 5 | - | - | 4-6 | 4-6 | 2200 |
| 17 | Blacksod Point | 18 | 15·6 | +28 | WNW | 5 | b-bc | 48 | 85 | 44 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 |
| 18 | Malin Head | 84 | 10·0 | +28 | NW | 5 | b-bcq | 48 | 65 | 37 | 8 | 9 | - | - | 2-3 | 2-3 | 2500 |
| | Aldergrove | 268 | 11·2 | +26 | W'S | 4 | b | 44 | 85 | 38 | 8 | 5 | - | - | 1 | 1 | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 18·6 | +22 | NW'W | 4 | b | 51 | 65 | 40 | 8 | 2 | - | - | 1 | 1 | 2500 |
| | Roches Point | 22 | 17·6 | +22 | W'N | 4 | b-bc | 49 | 85 | 44 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 11th October

| 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) | 18·0 | +28 | W'N | 2 | b | 46 | 85 | 43 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| Croydon | 17·8 | +24 | SSW | 1 | z₀ | 45 | 97 | 44 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| S. Farnborough | 18·5 | +30 | W'N | 2 | b | 43 | 97 | 42 | 8 | - | - | - | 0 | 0 | - | 0 | * |
| Boscombe Down | 19·1 | +28 | W'N | 3 | b | 42 | 97 | 41 | 8 | - | 4 | - | 0 | Tr | - | 0 | * |
| Thorney Island | 18·6 | +30 | WNW | 3 | b | 45 | 92 | 44 | 9 | - | - | - | 0 | 0 | - | 1 | * |
| Lympne | 17·6 | +30 | NWW | 3 | z₀ | 44 | 97 | 44 | 6 | - | 4 | - | 0 | Tr | - | 1 | §3 |
| Manston | 16·5 | +22 | WNW | 3 | b-bc | 50 | 85 | 47 | 7 | 5 | 4 | - | Tr | 2-3 | 2500 | 1 | * |
| Shoeburyness | 17·5 | +24 | W | 2 | b | 47 | 92 | 45 | 6 | 1 | - | - | 1 | 1 | 3500 | 0 | * |
| Felixstowe | 15·6 | +26 | W | 4 | b | 48 | 85 | 41 | 7 | - | 7 | - | 0 | 1 | - | 0 | 2 |
| Gorleston | 14·6 | +34 | W'N | 3 | b-bc | 45 | 92 | 43 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 0 | 3 |
| Mildenhall | 15·7 | +26 | WSW | 3 | b | 43 | 92 | 40 | 8 | - | 4 | - | 0 | Tr | - | 1 | * |
| Cranwell | 15·6 | +20 | WS | 3 | bc | 43 | 92 | 40 | 6 | - | 6 | 9 | 0 | 4-6 | - | 0 | * |
| Birmingham | 17·9 | +26 | WSW | 3 | b-bc | 42 | 85 | 38 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 | 1 | * |
| Upper Heyford | 18·0 | +30 | W | 2 | b | 43 | 92 | 40 | 8 | - | - | - | 0 | 0 | - | 0 | * |
| Ross-on-Wye | 18·3 | +20 | W'S | 2 | b-bc | 44 | 85 | 38 | 8 | 5 | - | - | 2-3 | 2-3 | 3000 | 1 | * |
| Hartland Point | 19·8 | +24 | NW | 4 | ir | 52 | 75 | 43 | 8 | 8 | - | - | 9 | 9 | 2500 | 1 | 4 |
| Bristol | 20·1 | +28 | WNW | 2 | b | 42 | 92 | 40 | 7 | 5 | - | - | Tr | Tr | 4000 | 1 | * |
| Portland Bill | 19·7 | +30 | NW | 4 | bc | 53 | 85 | 48 | 8 | 2 | - | - | 4-6 | 4-6 | 4000 | 1 | 4 |
| Plymouth | 21·4 | +26 | WNW | 4 | c-bc | 49 | 85 | 44 | 8 | 5 | 3 | - | 7-8 | 7-8 | 4000 | 0 | 3 |
| The Lizard | 20·9 | +30 | NNW | 4 | c-bc | 48 | 85 | 44 | 8 | 8 | 6 | - | 7-8 | 7-8 | 2000 | 0 | 4 |
| Scilly (St. Mary's) | 21·7 | +20 | NW | 4 | bc | 52 | 75 | 42 | 8 | 8 | - | - | 4-6 | 4-6 | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 20·0 | +24 | NW | 5 | c-bcq | 51 | 75 | 45 | 8 | 8 | 4 | - | 7-8 | 7-8 | 3000 | 1 | 3 |
| Holyhead (Valley) | 17·9 | +22 | NWW | 4 | bc | 46 | 85 | 40 | 8 | 8 | - | - | 4-6 | 4-6 | 3000 | 1 | 4 |
| Chester (Sealand) | 16·2 | +24 | W | 2 | bc | 47 | 75 | 39 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 | 1 | * |
| Manchester | 16·1 | +30 | SW'S | 2 | b-bc | 41 | 92 | 39 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| Spurn Head | 13·6 | +30 | W'N | 5 | b-bc | 48 | 85 | 44 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | 4 |
| Catterick | 14·2 | +30 | W | 2 | b | 43 | 85 | 38 | 8 | 5 | - | - | Tr | Tr | 4000 | 1 | * |
| Tynemouth | 12·5 | +24 | W | 3 | b-bc | 44 | 85 | 38 | 7 | - | 4 | 1 | 0 | 2-3 | - | 1 | 2 |
| St. Abbs Head | 11·4 | +36 | W | 4 | b-bc | 45 | 75 | 36 | 7 | 1 | 4 | - | 1 | 2-3 | 4000 | 0 | 4 |
| Leuchars | 11·0 | +30 | - | 0 | b-bc | 38 | 97 | 37 | 9 | 5 | 4 | - | 1 | 2-3 | 4000 | 1 | * |
| Renfrew (Abbots I.) | 12·2 | +26 | SW'W | 3 | c-bc | 45 | 85 | 42 | 8 | 4 | 4 | 9 | 4-6 | 7·8 | 2500 | 1 | * |
| Eskdalemuir | 12·9 | +22 | WSW | 2 | c | 41 | 85 | 37 | 8 | 5 | - | - | 9 | 9 | 1700 | 1 | * |
| Point of Ayre | 15·2 | +22 | NW | 6 | b | 48 | 85 | 44 | 8 | 8 | 4 | 5 | Tr | Tr | 2500 | 0 | 4 |
| Tiree | 13·2 | +34 | NNW | 5 | bc | 48 | 75 | 41 | 9 | 8 | 4 | - | 4-6 | 4-6 | 2800 | 0 | 5 |
| Stornoway | 10·4 | +30 | WNW | 3 | c | 42 | 85 | 38 | 8 | 1 | 9 | - | 1 | 9+ | 3000 | 1 | 2 |
| Dalwhinnie | 11·0 | +28 | WNW | 2 | c-bc | 39 | 85 | 36 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Aberdeen † | 10·0 | +32 | W'S | 2 | b | 40 | 85 | 35 | 9 | 8 | - | - | Tr | Tr | 2500 | 1 | ! |
| Wick | 09·4 | +30 | W | 1 | bc/pr | 40 | 97 | 38 | 8 | 2 | 3 | - | 4-6 | 4-6 | 2500 | 1 | * |
| Sumburgh | 06·6 | +32 | NW | 5 | c-bc | 45 | 65 | 35 | 8 | 2 | 6 | 3 | 4-6 | 7-8 | 2500 | 1 | 5 |
| Blacksod Point | 18·6 | +14 | W'N | 3 | b-bc | 45 | 85 | 41 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| Malin Head | 15·2 | +30 | NW'W | 6 | pr | 47 | 85 | 43 | 8 | 9 | - | - | 9+ | 9+ | 2500 | 1 | 4 |
| Aldergrove | 16·3 | +22 | WSW | 3 | bc | 42 | 85 | 37 | 8 | 5 | 7 | - | 2-3 | 4-6 | 3000 | 1 | 4 |
| Birr Castle | 19·6 | +26 | S | 2 | bc | 39 | 92 | 37 | 8 | 5 | - | 5 | 2-3 | 4-6 | 2500 | 1 | * |
| Valentia Obsy. | 21·3 | +10 | SW'S | 2 | bc | 47 | 75 | 40 | 8 | 8 | - | 4 | 2-3 | 4-6 | 2500 | 1 | 3 |
| Roches Point | 21·5 | +18 | W'N | 4 | bc | 49 | 75 | 42 | 8 | 5 | - | - | 4-6 | 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 10th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 62 | 46 | 39 | 0·1 | Tr | 3·4 |
| Croydon | 64 | 45 | 42 | Tr | - | 3·3 |
| S. Farnborough | 62 | 43 | 30 | Tr | - | 4·0 |
| Boscombe Down | 62 | 42 | 39 | Tr | 0·2 | 4·0 |
| Thorney Island | 62 | 43 | 35 | 0·5 | Tr | * |
| Lympne | 58 | 43 | 39 | 0·3 | - | 0·3 |
| Manston | 60 | 46 | 43 | Tr | - | 1·1 |
| Shoeburyness | 64 | 46 | 37 | Tr | - | 1·7 |
| Felixstowe | 64 | 48 | 42 | 0·1 | - | 3·1 |
| Gorleston | 62 | 45 | 40 | 0·4 | - | 3·8 |
| Mildenhall | 63 | 43 | 37 | - | Tr | 5·3 |
| Cranwell | 61 | 41 | 37 | 1 | - | 6·1 |
| Birmingham | 59 | 42 | 37 | 1 | 0·1 | 5·6 |
| Upper Heyford | 61 | 41 | 34 | 0·3 | - | * |
| Ross-on-Wye | 61 | 44 | 39 | 1 | - | 2·9 |
| Hartland Point | 57 | 51 | 48 | 2 | 0·3 | 6·4 |
| Bristol | 61 | 42 | 30 | 5 | 0·3 | 5·4 |
| Portland Bill | 58 | 52 | * | 4 | - | * |
| Plymouth | 61 | 49 | 43 | 3 | - | 4·2 |
| The Lizard | 59 | 46 | * | 2 | - | 4·2 |
| Scilly (St. Mary's) | 61 | 51 | * | 2 | 0·4 | 4·3 |
| Guernsey | | | | | | |
| Pembroke | 58 | 49 | * | Tr | 0·4 | 6·6 |
| Holyhead (Valley) | 58 | 45 | 40 | 1 | - | * |
| Chester (Sealand) | 61 | 42 | 40 | 0·6 | 1 | 4·7 |
| Manchester | 59 | 41 | 33 | 0·2 | 1 | * |
| Spurn Head | 58 | 47 | * | 0·6 | 1 | 6·7 |
| Catterick | 57 | 42 | 34 | - | 1 | 9·5 |
| Tynemouth | 57 | 44 | 40 | - | - | * |
| St. Abbs Head | 54 | 44 | * | - | - | * |
| Leuchars | 56 | 35 | 28 | Tr | Tr | 8·3 |
| Renfrew (Abbots I.) | 54 | 43 | 38 | * | 1 | 3·1 |
| Eskdalemuir | 51 | 38 | 33 | 7 | 1 | 1·9 |
| Point of Ayre | 58 | 47 | * | 0·3 | - | 4·8 |
| Tiree | 54 | 45 | * | 1 | 3 | 6·1 |
| Stornoway | 50 | 41 | * | 0·2 | 1 | 0·9 |
| Dalwhinnie | 47 | 37 | 30 | 0·3 | 3 | 1·0 |
| Aberdeen † | 56 | 38 | 28 | 0·2 | - | 3·6 |
| Wick | 50 | 39 | 37 | 0·4 | 2 | * |
| Sumburgh | 49 | 40 | 37 | 1 | 2 | 3·2 |
| Blacksod Point | 56 | 45 | * | 1 | 0·2 | * |
| Malin Head | 54 | 45 | | 3 | 0·1 | 3·8 |
| Aldergrove | 56 | 40 | 35 | 1 | Tr | 3·8 |
| Birr Castle | 57 | 37 | 31 | 2 | - | 3·7 |
| Valentia Obsy. | 57 | 47 | 39 | 0·2 | Tr | 6·1 |
| Roches Point | 59 | 47 | * | 0·3 | 0·1 | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 10th October ..... 18h. G.M.T. — 01h. G.M.T. 11th October ..... 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 | 36 | 81855 | 28485 | 41 | 02855 | 26385 | 50 | 01354 | 27314 | 86 | 81846 | 24387 |
| 115 | | | | | | | 32 | 62834 | 28266 | 87 | 22844 | 64466 |
| 203 | | | | | | | | | | 87 | 02943 | 23428 |
| 206 | 86 | 25855 | 24386 | 8- | 02867 | 24287 | 50 | 01354 | 26384 | 86 | 25854 | 26185 |
| 210 | 62 | 64754 | 24368 | 84 | 02965 | 28266 | 46 | 01354 | 20114 | 57 | 02845 | 19317 |
| 220 | | | | | | | | | | 53 | 01953 | 27314 |
| 230 | 26 | 25756 | 20486 | 36 | 01955 | 22485 | 30 | 01953 | 22413 | 8- | 02953 | 24486 |
| 245 | 27 | 01953 | 56414 | 36 | 10956 | 28217 | 50 | 01963 | 24183 | 84 | 01961 | 28101 |
| 260 | 26 | 25854 | 57584 | 34 | 25654 | 57484 | 50 | 05662 | 20502 | 50 | 01853 | 20213 |
| 278 | 86 | 25846 | 57586 | 8- | 01764 | 25487 | 80 | 25852 | 59482 | 87 | 02844 | 26486 |
| 279 | 26 | 10854 | 55524 | 30 | 10854 | 57484 | 20 | 01853 | 23413 | 83 | 01853 | 23313 |
| 285 | 23 | 81744 | 24685 | 27 | 25744 | 24684 | | | | | | |
| 288 | 10 | 01854 | 54514 | 46 | 01851 | 19312 | 00 | 00890 | 21380 | 64 | 01390 | 23301 |
| 575 | 20 | 25854 | 59548 | 26 | 25844 | 28484 | 40 | 00851 | 61401 | 40 | 01852 | 04113 |
| 301 | 8- | 02856 | 57586 | 8- | 01754 | 59584 | 40 | 01753 | 60503 | 84 | 01954 | 28415 |
| 321 | 2- | 01654 | 24524 | 80 | 01754 | 23324 | 50 | 01751 | 24381 | 54 | 01764 | 35214 |
| 299 | 70 | 01754 | 24514 | 80 | 01754 | 24414 | 50 | 01751 | 24311 | 50 | 01851 | 26202 |
| 292 | 2- | 01854 | 56614 | 40 | 02845 | 23313 | 40 | 01851 | 23381 | 40 | 01862 | 22102 |
| 310 | -- | 01644 | 24514 | | | | | | | | | |
| 614 | 20 | 01755 | 57415 | 36 | 05654 | 55414 | 40 | 25664 | 24285 | 54 | 01761 | 22212 |

13h. G.M.T. 10th October ..... 18h. G.M.T. — 01h. G.M.T. 11th October ..... 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 | 84 | 02855 | 22445 | 86 | 25864 | 55485 | 8- | 01763 | 59313 | 2- | 01954 | 27314 |
| 334 | | | | | | | | | | | | |
| 340 | 2- | 01864 | 55324 | 40 | 25864 | 23284 | 30 | 01863 | 28213 | 83 | 01862 | 24213 |
| 136 | 80 | 01754 | 24564 | 46 | 05763 | 21413 | 50 | 01772 | 22202 | 53 | 01741 | 24301 |
| 336 | 57 | 02754 | 28617 | 21 | 02755 | 28528 | | | | | | |
| 350 | 20 | 01854 | 55584 | 54 | 01853 | 22314 | 40 | 01761 | 21381 | 84 | 01790 | 23101 |
| 368 | 83 | 01744 | 59565 | 80 | 25654 | 57584 | 50 | 00652 | 26302 | 54 | 00753 | 26483 |
| 379 | 8- | 02856 | 24466 | 8- | 02855 | 22315 | 84 | 01790 | 24213 | 00 | 00990 | 22310 |
| 390 | 8- | 21×65 | 20555 | 00 | 05690 | 24410 | 87 | 05590 | 20414 | 00 | 00790 | 22310 |
| 382 | 86 | 25864 | 57485 | 56 | 01874 | 22325 | 07 | 01790 | 23113 | 84 | 01890 | 24201 |
| 438 | 8- | 62538 | 24868 | 87 | 14644 | 24624 | 50 | 01753 | 24413 | 44 | 01752 | 25313 |
| 430 | 5- | 52528 | 53558 | 86 | 52755 | 22356 | 50 | 01753 | 24113 | 00 | 00790 | 25110 |
| 409 | 14 | 02753 | 25563 | 87 | 02815 | 25486 | 2- | 81655 | 26415 | 56 | 02855 | 29485 |

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 11th October
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 * | cpr₀bc | bcyb z₀ | bcm₀bw |
| Croydon | bcxr₀c | bccbyb | d₀mdm₀ |
| Greenwich | cg₀c | cgcby | bcbw |
| Camden Square | c | b | * |
| *Kensington | bcbc | bc | * |
| Hampstead | bc | b | b |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time 0·11 7-21 hrs 10th
Min. Time 0·01 9-16 hrs 10th

| Stations | Temperature Day Max °F | Temperature Night Min °F | Temperature Min on grass °F | Rainfall Day mm | Rainfall Night mm | Sunshine to sunset hrs Yesterday | Humidity 15h % Yesterday | Humidity 9h % To-day |
|---|---|---|---|---|---|---|---|---|
| Kew | 62 | 46 | 39 | 0·1 | Tr | 3·4 | * | * |
| Croydon | 64 | 45 | 42 | Tr | - | 3·3 | * | * |
| Greenwich | 63 | 45 | 36 | Tr | - | 3·4 | 48 | 67 |
| Westminster | 64 | 45 | 39 | - | | * | 65 | 78 |
| Regents Park | | | | | | | | |
| Camden Square | 64 | 45 | 38 | Tr | - | * | * | 72 |
| Kensington | 63 | 45 | 30 | - | - | * | | 72 |
| Hampstead | 63 | 43 | 37 | Tr | - | * | * | 78 |

SECRET

BRITISH SECTION

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

Monday 12th October 1942

No. 29544

## OBSERVATIONS at 13h. G.M.T. 11th October

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0–12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Dew Point °F. (8) | Visibility 0–9 (9) | Cloud Form Low (10) | Cloud Form Med. (11) | Cloud Form High (12) | Cloud Amount Low 0–10 (13) | Cloud Amount Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 22.1 | +12 | NW | 3 | bc | 55 | 45 | 33 | 8 | 8 | - | 1 | 4-6 | 4-6 | 2500 |
| | Croydon | 11.4 | +12 | W'S | 3 | bc | 56 | 55 | 39 | 7 | 4 | - | · | 4-6 | 4-6 | 3000 |
| | S. Farnborough | 22.3 | +12 | NW'N | 3 | bc | 55 | 45 | 36 | 8 | 4 | - | - | 4-6 | 4-6 | 2500 |
| | Boscombe Down | 22.5 | +8 | WNW | 4 | c-bc | 56 | 45 | 36 | 8 | 1 | - | 5 | 4-6 | 7-8 | 3500 |
| | Thorney Island | 22.5 | +10 | WNW | 4 | c-bc | 57 | 65 | 47 | 9 | 1 | - | 2 | 7-8 | 7-8 | 4000 |
| | Lympne | 21.6 | +12 | NW | 4 | Zo | 54 | 55 | 38 | 6 | 1 | - | 1 | 4-6 | 4-6 | 4000 |
| | Manston | 21.0 | +14 | W'N | 3 | bc | 55 | 55 | 39 | 8 | 2 | - | 1 | 4-6 | 4-6 | 3000 |
| 2 | Shoeburyness | 20.6 | +14 | WNW | 3 | bc | 58 | 55 | 41 | 8 | 1 | - | 1 | 4-6 | 4-6 | 3500 |
| | Felixstowe | 20.4 | +18 | W'N | 4 | c-bc | 54 | 65 | 40 | 8 | 2 | - | 1 | 4-6 | 7-8 | 2500 |
| | Gorleston | 19.0 | +18 | NW | 4 | bc | 55 | 55 | 43 | 8 | 8 | - | · | 4-6 | 4-6 | 1400 |
| | Mildenhall | 20.2 | +18 | W'N | 4 | bc | 54 | 55 | 39 | 8 | 1 | - | - | 4-6 | 4-6 | 3000 |
| | Cranwell | 19.8 | +18 | W'N | 3 | bc | 54 | 55 | 39 | 7 | 2 | 6 | - | 2-3 | 4-6 | 3000 |
| 3 | Birmingham | 21.5 | +8 | W | 3 | bc | 52 | 55 | 37 | 8 | 7 | - | 1 | 4-6 | 4-6 | 2500 |
| | Upper Heyford | 21.7 | +18 | NW'W | 4 | c-bc | 53 | 55 | 36 | 9 | 4 | - | · | 7-8 | 7-8 | 3500 |
| 4 | Ross-on-Wye | 21.9 | +6 | W | 4 | c-bc | 55 | 55 | 37 | 9 | 5 | - | - | 4-6 | 7-8 | 3500 |
| 5 | Hartland Point | 23.8 | +10 | NW | 4 | c-bc | 54 | 65 | 43 | 9 | 2 | 6 | - | 2-3 | 7-8 | 2500 |
| | Bristol | 23.3 | +10 | W'S | 3 | bc | 54 | 55 | 40 | 8 | 1 | - | 1 | 4-6 | 4-6 | 4000 |
| | Portland Bill | 23.3 | +6 | WNW | 3 | c-bc | 56 | 85 | 52 | 8 | 2 | 4 | - | 4-6 | 7-8 | 4000 |
| | Plymouth | 24.3 | +8 | W'N | 3 | c-bc | 57 | 55 | 43 | 8 | 7 | - | 6 | 7-8 | 7-8 | 3000 |
| | The Lizard | 24.0 | +6 | NW | 3 | bc | 60 | 65 | 48 | 8 | 2 | 6 | - | 4-6 | 4-6 | 2500 |
| | Scilly (St. Mary's) | 25.1 | +10 | W | 2 | bc | 61 | 65 | 48 | 9 | 8 | 4 | 1 | 2-3 | 2-3 | 1500 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 24.0 | +10 | W'N | 3 | bc | 54 | 65 | 43 | 8 | 2 | 6 | 1 | 4-6 | 4-6 | 3000 |
| 7 | Holyhead (Valley) | 21.8 | +16 | W | 4 | bc | 54 | 65 | 40 | 8 | 1 | - | 5 | 2-3 | 2-3 | 3000 |
| | Chester (Sealand) | 21.1 | +18 | NW | 4 | c-bc | 53 | 55 | 38 | 8 | 2 | - | 1 | 7-8 | 7-8 | 3000 |
| 8 | Manchester | 20.5 | +18 | SW'W | 4 | c-bc | 53 | 75 | 43 | 6 | 2 | - | - | 7-8 | 7-8 | 2500 |
| 10 | Spurn Head | 18.4 | +14 | WNW | 5 | bc | 54 | 75 | 48 | 7 | 2 | - | 1 | 2-3 | 4-6 | 4000 |
| | Catterick | 18.2 | +18 | WNW | 4 | bc | 55 | 55 | 39 | 8 | 1 | - | 1 | 2-3 | 4-6 | 3000 |
| | Tynemouth | 17.3 | +18 | W | 4 | bc | 54 | 55 | 40 | 8 | 2 | - | - | 4-6 | 4-6 | 2400 |
| 11 | St. Abbs Head | 15.5 | +24 | W | 3 | bc | 51 | 65 | 37 | 8 | 1 | 4 | - | 4-6 | 4-6 | 4000 |
| | Leuchars | 15.9 | +26 | NNW | 3 | bc | 53 | 45 | 39 | 9 | 1 | - | 8 | 2-3 | 4-6 | 2500 |
| 12 | Renfrew (Abbots I.) | 17.3 | +22 | W'N | 3 | c-bc | 52 | 55 | 37 | 9 | 1 | 7 | 6 | 4-6 | 7-8 | 2500 |
| | Eskdalemuir | 16.5 | +12 | NW'W | 4 | bc | 52 | 65 | 39 | 8 | 8 | - | 6 | 4-6 | 4-6 | 2800 |
| | Point of Ayre | 19.5 | +16 | NW | 5 | c | 53 | 75 | 45 | 8 | 8 | - | - | 9+ | 9+ | 4000 |
| 13A | Tiree | 16.3 | +6 | SW'W | 4 | c | 51 | 75 | 44 | 8 | 5 | 1 | - | 4-6 | 9 | 3000 |
| 13B | Stornoway | 12.7 | 0 | SW | 4 | c | 50 | 75 | 41 | 8 | 1 | 1 | 5 | 4-6 | 9+ | 2800 |
| 15 | Dalwhinnie | 16.6 | +22 | SW | 2 | bc | 48 | 85 | 45 | 8 | 2 | 4 | - | 2-3 | 2-3 | 4000 |
| | Aberdeen | 15.4 | +20 | NW | 4 | bc | 49 | 55 | 35 | 9 | 2 | 9 | · | 1 | 2-3 | 3500 |
| | Wick | 14.0 | +20 | NW | 4 | bc | 49 | 75 | 40 | 9 | 5 | 3 | 8 | 4-6 | 4-6 | 2000 |
| 16 | Sumburgh | 11.4 | +26 | NW | 4 | c | 47 | 65 | 36 | 9 | 2 | - | 6 | 4-6 | 9 | 2500 |
| 17 | Blacksod Point | 19.0 | +6 | WSW | 4 | c | 53 | 97 | 52 | 8 | 8 | - | - | 7-8 | 10 | 1500 |
| 18 | Malin Head | 17.6 | 0 | SW | 3 | c | 52 | 65 | 39 | 8 | 5 | 6 | - | 4-6 | 9+ | 2500 |
| | Aldergrove | 20.0 | +18 | WSW | 3 | c | 52 | 55 | 36 | 8 | 1 | 4 | 7 | 1 | 10 | 3000 |
| 19 | *Birr Castle | 21.3 | -4 | SW | 2 | c | 56 | 55 | 41 | 8 | 1 | 3 | 6 | 2-3 | 9 | 2500 |
| 20 | Valentia Obsy. | 21.9 | -6 | SW'S | 4 | c | 57 | 75 | 50 | 9 | 8 | 3 | - | 9 | 9+ | 2500 |
| | Roches Point | 23.0 | -2 | W | 3 | bc | 56 | 75 | 49 | 8 | 2 | - | 5 | 2-3 | 4-6 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 11th October

| 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) | 24.3 | +10 | WNW | 1 | Zo | 51 | 75 | 41 | 5 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Croydon | 24.1 | +10 | - | 0 | Zo | 51 | 95 | 42 | 5 | 4 | 3 | 2 | 4-6 | 7-8 | 4000 | 1 | * |
| S. Farnborough | 24.2 | +14 | SW'W | 1 | c-bc | 51 | 75 | 42 | 8 | 7 | 4 | - | 4-6 | 7-8 | 3000 | 0 | * |
| Boscombe Down | 24.4 | +10 | W'N | 2 | bc | 49 | 75 | 41 | 8 | 4 | 3 | 6 | 2-3 | 4-6 | 3500 | 0 | * |
| Thorney Island | 24.2 | +10 | W'N | 2 | bc | 50 | 75 | 43 | 6 | 8 | - | 2 | 2-3 | 2-3 | 5700 | 0 | |
| Lympne | 24.3 | +14 | - | 0 | Zo | 47 | 75 | 38 | 6 | 4 | - | 6 | 1 | 7-8 | 6000 | 1 | § 3 |
| Manston | 23.7 | +22 | SW | 2 | bc | 47 | 75 | 39 | 6 | 5 | - | 6 | 2-3 | 4-6 | 3500 | 1 | * |
| Shoeburyness | 23.1 | +10 | W | 1 | bc | 48 | 75 | 39 | 6 | 4 | 4 | - | 2-3 | 4-6 | 3500 | 0 | * |
| Felixstowe | 23.2 | +14 | SW | 2 | Zo | 51 | 65 | 40 | 6 | 4 | - | 6 | Tr | 2-3 | 4000 | 0 | 3 |
| Gorleston | 21.8 | +8 | W | 2 | Zo | 51 | 75 | 45 | 6 | 8 | 7 | · | 4-6 | 7-8 | 1800 | 0 | 2 |
| Mildenhall | 22.6 | +14 | WSW | 2 | c | 50 | 75 | 41 | 7 | 4 | 6 | 1 | 2-3 | 9+ | 5000 | 0 | * |
| Cranwell | 22.1 | +14 | W'S | 3 | bc | 48 | 65 | 37 | 7 | 5 | - | 2 | Tr | 4-6 | 4000 | 0 | * |
| Birmingham | 23.5 | +10 | W | 2 | Zo | 49 | 65 | 38 | 6 | 5 | - | 1 | 4-6 | 4-6 | 4000 | 1 | * |
| Upper Heyford | 23.4 | +14 | WSW | 1 | c-bc | 50 | 65 | 39 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | * |
| Ross-on-Wye | 23.6 | +6 | WSW | 1 | bc | 49 | 75 | 40 | 9 | 1 | - | 1 | 1 | 2-3 | 3500 | 1 | * |
| Hartland Point | 24.0 | +2 | W | 3 | bc | 52 | 75 | 43 | 8 | 1 | 4 | - | 2-3 | 4-6 | 3000 | 0 | 4 |
| Bristol | 24.6 | +10 | WSW | 2 | b | 49 | 65 | 39 | 7 | 5 | - | 1 | Tr | 1 | 4000 | 1 | * |
| Portland Bill | 24.4 | +6 | W | 3 | c | 55 | 85 | 51 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 4 |
| Plymouth | 25.2 | +6 | WNW | 2 | Zo | 53 | 65 | 42 | 7 | 4 | - | - | Tr | Tr | 3000 | 0 | 2 |
| The Lizard | 24.2 | 0 | WSW | 3 | bc | 52 | 75 | 43 | 8 | 4 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| Scilly (St. Mary's) | 25.0 | -2 | SSW | 2 | c-bejp | 54 | 75 | 46 | 8 | 8 | 4 | · | 4-6 | 7-8 | 1500 | 0 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 23.3 | -4 | W'S | 4 | bc | 53 | 65 | 41 | 8 | 2 | 4 | - | 2-3 | 4-6 | 3000 | 1 | 2 |
| Holyhead (Valley) | 22.0 | 0 | SSW | 3 | bc | 50 | 65 | 38 | 8 | 4 | 4 | 8 | Tr | 4-6 | 3500 | 1 | 3 |
| Chester (Sealand) | 22.6 | +10 | S | 1 | bc | 48 | 75 | 39 | 8 | - | 6 | 4 | 0 | 4-6 | - | 0 | * |
| Manchester | 22.4 | +10 | S | 2 | bc | 45 | 75 | 39 | 6 | 4 | 6 | 9 | 4-6 | 4-6 | 3500 | 1 | * |
| Spurn Head | 21.3 | +14 | W'S | 4 | bc | 52 | 65 | 38 | 7 | 5 | 1 | - | 1 | 4-6 | 4000 | 0 | 3 |
| Catterick | 21.0 | +16 | SW | 2 | c | 49 | 85 | 43 | 8 | 8 | 4 | 6 | 2-3 | 9+ | 2500 | 0 | * |
| Tynemouth | 20.0 | +12 | W | 3 | bc | 51 | 75 | 41 | 6 | 2 | 3 | 1 | 2-3 | 4-6 | 2500 | 1 | 2 |
| St. Abbs Head | 17.6 | +6 | W | 3 | bc | 47 | 55 | 33 | 7 | 5 | 4 | · | 2-3 | 4-6 | 3500 | 0 | 3 |
| Leuchars | 18.0 | +14 | SW | 1 | c | 47 | 75 | 40 | 9 | · | 7 | - | 0 | 10 | - | 0 | * |
| Renfrew (Abbots I.) | 18.6 | +6 | WSW | 2 | c | 49 | 65 | 38 | 7 | 5 | 7 | 6 | 2-3 | 9 | 2500 | 1 | * |
| Eskdalemuir | 19.6 | +12 | WSW | 2 | c-bc | 44 | 85 | 39 | 8 | 5 | 7 | 6 | 2-3 | 7-8 | 3300 | 1 | * |
| Point of Ayre | 20.8 | +4 | SW | 3 | bc | 46 | 85 | 42 | 8 | 2 | 4 | 2 | 2-3 | 4-6 | 2500 | 0 | 3 |
| Tiree | 14.9 | -6 | SW'S | 6 | c/r | 50 | 97 | 48 | 7 | 6 | - | - | 9+ | 9+ | 1500 | 1 | 5 |
| Stornoway | 11.8 | -4 | SSW | 5 | pr | 50 | 85 | 46 | 7 | 5 | 2 | - | 9 | 10 | 1500 | 1 | 3 |
| Dalwhinnie | 16.0 | +4 | S | 2 | c | 45 | 65 | 34 | 8 | 5 | 7 | · | 4-6 | 9+ | 4000 | 0 | * |
| Aberdeen | 17.6 | +14 | - | 0 | m | 47 | 65 | 35 | 4 | 5 | 7 | - | Tr | 9 | 2500 | 1 | 1 |
| Wick | 15.3 | +10 | - | 0 | c | 45 | 75 | 38 | 9 | 5 | 7 | 7 | 2-3 | 10 | 3000 | 1 | * |
| Sumburgh | 13.9 | +10 | WSW | 4 | b | 47 | 65 | 37 | 9 | - | 7 | 5 | 0 | 1 | · | 1 | 3 |
| Blacksod Point | 16.4 | -16 | S'W | 5 | c | 54 | 92 | 52 | 8 | 8 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Malin Head | 16.8 | -6 | SW'S | 3 | c/d | 50 | 85 | 46 | 8 | 5 | 2 | - | 7-8 | 10 | 2500 | 2 | 3 |
| Aldergrove | 19.7 | -2 | S | 1 | bc | 46 | 75 | 39 | 8 | 5 | 3 | 4 | 1 | 4-6 | 4000 | 1 | * |
| *Birr Castle | 20.1 | -8 | SW | 2 | c | 53 | 75 | 45 | 8 | 5 | 1 | - | 7-8 | 10 | 2500 | 1 | * |
| Valentia Obsy. | 20.3 | -10 | S'W | 4 | c | 53 | 85 | 49 | 9 | 8 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| Roches Point | 22.0 | -6 | WSW | 3 | c | 54 | 85 | 50 | 8 | 8 | - | - | 9 | 9 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 11th (39) | Weather 13h.—18h. 11th (40) | Weather 18h. 11th to 1h. 12th (41) | Weather 1h.–7h. 12th (42) |
|---|---|---|---|---|
| London (Kew) | bbcw | becz. | cbcmow | becmox |
| Croydon | bcz.bcy | bcycz. | cz.bm. | bm.cm.w |
| S. Farnborough | bbcy | bcybc | bbcb | bm.cw |
| Boscombe Down | bbcy | bccbcy | bcbm. | bbcm.w |
| Thorney Island | bbcc | bcbc | bcm.w | bcwm.cfg |
| Lympne | bbcz. | bccz.y | bcbm.x | bcm.xc |
| Manston | bc | bcy | bm. | bbcz.w |
| Shoeburyness | bcm.bbc | bcz. | bcz | cwm. |
| Felixstowe | bbc | bcbcy bcm. | bcm.bm. | bbc bbcm. |
| Gorleston | bcbbcy | bcycz. | bz.w | bcz. |
| Mildenhall | bcwbbc | bcyc | cbm.bcm.bc | bm.w bcm.x |
| Cranwell | bcm.bcyz | bccyc | bybcm. | bcbm.bc |
| Birmingham | bc | bc | bcb | b,c |
| Upper Heyford | bbcy | bcyc | bcb | bcm.cm.w |
| Ross-on-Wye | bbc | cbcc | bbcb | bbcc |
| Hartland Point | irc | cbc | bcc | cbcc |
| Bristol | bbc | bcybcb | bm.bcwc | bccbc |
| Portland Bill | bcc | c | cbc | uc |
| Plymouth | bcc | bcbm. | bm.bcm. | bcir.m.c |
| The Lizard | bccbc | bc | bcc | cprc |
| Scilly (St. Mary's) | bc | bcyc | cp.qc | cpr.c |
| Guernsey | | | | |
| Pembroke | bc | bc | cprq | cir.q |
| Holyhead (Valley) | bcbbc | bcc | bccr.r. | crrc |
| Chester (Sealand) | bcc | cybc | bm. | bcm. |
| Manchester | bc pr.z. | bcz. | bcz.m. | bbccm. |
| Spurn Head | bc | bc | b | bc |
| Catterick | bcbcy | bcyc | cbcbw | bwbm.cf |
| Tynemouth | bcy | bc | bc | bccm. |
| St. Abbs Head | bbc | bccbc | bcm.bbc | bcbbcc |
| Leuchars | bccbc | bcyrc | cm.bcw | cir. |
| Renfrew (Abbots I.) | bccy | c | cbc | bccr.r.m.c |
| Eskdalemuir | cpr.bc | bcc | cbbcc | cr.r. |
| Point of Ayre | bbcc | cbbc | bcbbc | bccpr. |
| Tiree | bcc | cir | cir. | cir.rr |
| Stornoway | cbcc | cpr | crrPR | cprrr |
| Dalwhinnie | cbc | bcc | * | coprc |
| Aberdeen | bbcy | bcycz | | bbcw |
| Wick | cpr.c | c | cbc | bcc |
| Sumburgh | cbcc | c,b | bcir. | |
| Blacksod Point | r | c | | r |
| Malin Head | pr | d | d | c |
| Aldergrove | bcccy | cbc | bcid.cbc | bcir.r.id. |
| *Birr Castle | c | c | • | pr |
| Valentia Obsy. | pr | pr | pr | r |
| Roches Point | bc | pr | pr | r |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 12th October

| 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 | Moderate Southwest winds, fresh locally on West coasts, veering westerly later. Cloudy with slight local rain, becoming fair with some bright periods later; average temperature. |
| 12 S.W. Scotland & Isle of Man | Moderate westerly winds; local showers and bright intervals: average temperature. |
| 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland | Strong southerly winds, veering westerly and moderating. Dull and rainy at first; showers and bright intervals later: average temperature. |
| 15 N.E. Scotland | |
| 16 Orkneys and Shetlands | As 15. |
| 17 N. W. Ireland; 18 N. E. Ireland | As 13A - 14 |
| 19 S. E. Ireland | As 1-12 |
| 20 S. W. Ireland | As 13A - 14 |

### GENERAL INFERENCE

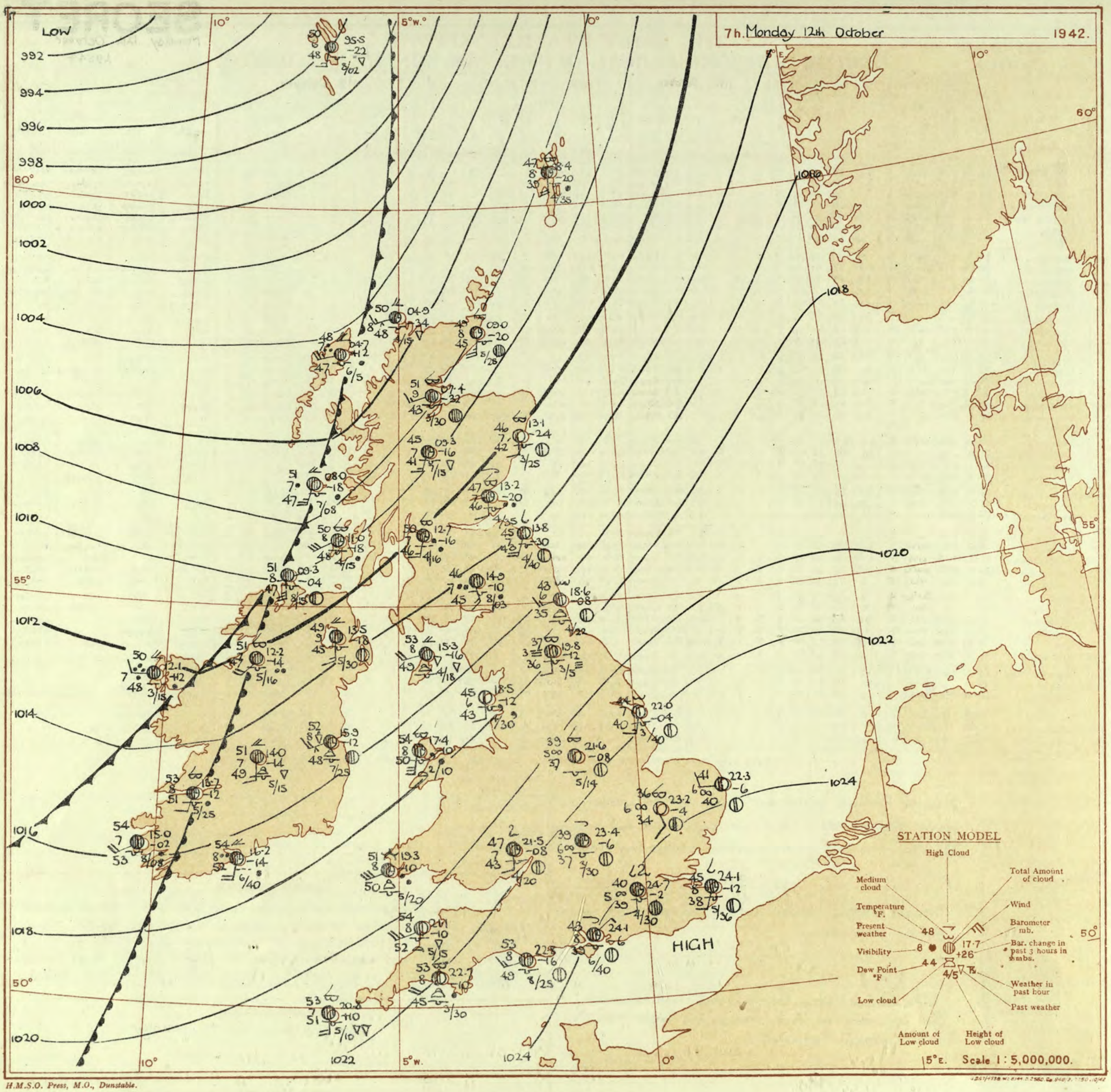
A deep depression over Iceland is moving northeast and an associated trough of low pressure is moving southeast across the country. There will be some local rain ahead of, and more especially in the vicinity of the trough, but behind it there will be bright periods in all districts and local showers in the Northwest. Temperatures will be about normal.

### FURTHER OUTLOOK

Fair over most of the country

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

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

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

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

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

BRITISH SECTION

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

Monday 12th October 1942

No. 29544

## OBSERVATIONS at 1 hr. G.M.T. 12th October

| 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 | * | * | * | * | * | 45 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 25·8 | -2 | S | 3 | bc | 41 | 92 | 39 | 6 | 5 | - | - | 4-6 | 4-6 | 3500 |
| | S. Farnborough | 226 | 25·4 | -6 | - | 0 | b | 40 | 85 | 36 | 7 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 417 | 25·5 | -6 | - | 0 | b | 38 | 92 | 35 | 6 | - | - | - | 0 | 0 | - |
| | Thorney Island | 10 | 25·5 | -4 | - | 0 | $z_0$ | 40 | 97 | 39 | 6 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Lympne ... | 283 | 26·4 | -2 | - | 0 | $z_0$ | 39 | 92 | 36 | 6 | 5 | 4 | - | 4-6 | 4-6 | 6000 |
| | Manston ... | 154 | 25·0 | -10 | SW | 2 | $z_0$ | 41 | 85 | 36 | 6 | - | 4 | - | 0 | 1 | - |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 25·3 | -4 | SW | 2 | $z_0$ | 47 | 75 | 40 | 6 | - | - | - | 0 | 0 | - |
| | Gorleston ... | 5 | 24·5 | +6 | W'S | 2 | $z_0$ | 44 | 75 | 37 | 6 | - | - | - | 0 | 0 | - |
| | Mildenhall ... | 15 | 24·5 | +2 | SW'S | 3 | b-bc | 42 | 85 | 39 | 7 | - | 4 | - | 0 | 2-3 | - |
| | Cranwell ... | 203 | 23·7 | -2 | SW | 2 | $z_0$ | 39 | 85 | 36 | 6 | - | 4 | - | 0 | 2-3 | - |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 24·4 | -6 | WSW | 1 | b | 40 | 92 | 38 | 7 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 23·0 | -14 | S | 3 | c-bc | 49 | 85 | 44 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Bristol ... | 209 | 25·2 | -10 | S'W | 2 | bc | 47 | 75 | 39 | 7 | 5 | - | - | 4-6 | 4-6 | 4000 |
| | Portland Bill ... | 32 | 25·2 | -6 | NW | 3 | bc | 50 | 85 | 46 | 8 | 4 | - | - | 4-6 | 4-6 | 4000 |
| | Plymouth ... | 82 | 25·4 | -6 | ESE | 1 | $z_0$ | 45 | 92 | 42 | 6 | 5 | 7 | - | 4-6 | 9 | 4100 |
| | The Lizard ... | 240 | 23·8 | -12 | S | 5 | c-bc | 53 | 92 | 51 | 8 | 8 | - | - | 7-8 | 7-8 | 1500 |
| | Scilly (St. Mary's) | 163 | 23·6 | -12 | S'E | 4 | c | 53 | 85 | 49 | 8 | 8 | - | - | 9 | 9 | 1500 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 22·1 | -16 | SW'W | 6 | $pv_0$ | 55 | 85 | 50 | 8 | 8 | - | - | 9+ | 9+ | 1500 |
| 7 | Holyhead (Valley) | 32 | 20·6 | -14 | S | 5 | c/v | 51 | 92 | 49 | 7 | 5 | - | - | 9+ | 10 | 3500 |
| | Chester (Sealand) | 16 | 22·0 | -12 | SSE | 2 | b-bc | 40 | 85 | 37 | 6 | 5 | - | 8 | 1 | 2-3 | 3000 |
| 8 | Manchester ... | 235 | 22·5 | -10 | SE'S | 3 | bc | 42 | 85 | 37 | 6 | 5 | - | 1 | 2-3 | 4-6 | 4000 |
| 10 | Spurn Head ... | 29 | 23·2 | 0 | SW'W | 4 | b-bc | 45 | 75 | 38 | 7 | - | 3 | - | 2-3 | 2-3 | 7200 |
| | Catterick ... | 175 | 22·4 | -2 | SE | 1 | b | 39 | 92 | 37 | 7 | - | 7 | - | 0 | Tr | - |
| | Tynemouth ... | 108 | 21·0 | -2 | W | 3 | b-bc | 43 | 85 | 38 | 6 | - | 4 | - | 0 | 2-3 | - |
| 11 | St. Abbs Head | 280 | 18·4 | -2 | SW | 4 | bc | 42 | 85 | 38 | 7 | 5 | - | - | 4-6 | 4-6 | 2500 |
| | Leuchars ... | 36 | 17·2 | -14 | SSW | 2 | b-bc | 44 | 85 | 40 | 7 | 5 | 7 | 1 | 1 | 2-3 | 4900 |
| 12 | Renfrew (Abbots I.) | 19 | 16·4 | -18 | SE'E | 1 | bc | 45 | 85 | 41 | 7 | 5 | 4 | - | 4-6 | 4-6 | 3000 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre ... | 30 | 18·8 | -14 | SW | 3 | bc | 59 | 92 | 57 | 8 | 5 | - | - | 4-6 | 4-6 | 4000 |
| 13A | Tiree ... ... | 22 | 12·1 | -18 | SW | 6 | $iv_0$ | 52 | 85 | 46 | 7 | 5 | 7 | - | 7-8 | 9+ | 1500 |
| 13B | Stornoway ... | 80 | 07·6 | -18 | SSW | 6 | $pv_0$ | 52 | 92 | 50 | 7 | 6 | 2 | - | 7-8 | 9+ | 1500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 16·4 | -12 | S'W | 2 | b-bc | 43 | 85 | 39 | 9 | 5 | - | - | 2-3 | 2-3 | 3500 |
| | Wick ... | 114 | 13·1 | -14 | S'W | 5 | bc | 48 | 75 | 41 | 8 | 5 | - | - | 1 | 1 | 2500 |
| 16 | Sumburgh .. | 19 | 13·3 | -12 | S | 6 | $iv_0$ | 50 | 65 | 48 | 8 | 5 | 7 | 7 | Tr | 10 | 4000 |
| 17 | Blacksod Point | 18 | 12·7 | -22 | SW | 6 | $iv_0$ | 55 | 92 | 50 | 8 | 6 | - | - | 10 | 10 | 1500 |
| 18 | Malin Head ... | 84 | 12·9 | -22 | S'W | 6 | c-bc | 49 | 85 | 45 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Aldergrove ... | 268 | 17·3 | -16 | S | 4 | bc | 47 | 85 | 44 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 17·1 | -18 | S'W | 4 | bc | 54 | 92 | 52 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Roches Point | 22 | 19·1 | -18 | SW'S | 5 | c-bc | 54 | 85 | 50 | 8 | 5 | - | - | 7-8 | 7-8 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 12th October

| 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) | 24·1 | -8 | E'S | 1 | $z_0$ | 39 | 92 | 37 | 5 | 5 | 4 | 4 | 4-6 | 7-8 | 2500 | 1 | * |
| | Croydon ... | 24·7 | -2 | S | 2 | $z_0$ | 40 | 97 | 38 | 5 | 5 | 4 | 9 | 4-6 | 9 | 3000 | 1 | * |
| | S. Farnborough | 24·0 | -10 | S'E | 1 | fg | 39 | 92 | 37 | 6 | 5 | 4 | - | 9 | 9 | 3000 | 9 | * |
| | Boscombe Down | 24·1 | -6 | E'S | 3 | $z_0$ | 38 | 97 | 36 | 6 | 5 | 3 | 2 | 7-8 | 7-8 | 3000 | 0 | * |
| | Thorney Island | 24·1 | -6 | NE | 1 | fs | 43 | 85 | 40 | 8 | 5 | - | 1 | 9 | 9+ | 4000 | 1 | * |
| | Lympne ... | 24·8 | -6 | - | 0 | c | 43 | 97 | 42 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Manston ... | 24·1 | -12 | SSW | 1 | c | 45 | 75 | 38 | 8 | 5 | 4 | - | 7-8 | 9 | 3600 | 0 | * |
| 2 | Shoeburyness ... | 24·6 | -2 | WSW | 2 | c | 45 | 92 | 42 | 6 | 5 | 4 | 2 | 9 | 9+ | 4800 | 0 | * |
| | Felixstowe ... | 24·4 | +2 | SW | 2 | $z_0$ | 45 | 75 | 38 | 6 | - | 7 | 4 | 0 | 4-6 | - | 0 | 1 |
| | Gorleston ... | 22·3 | -6 | W'S | 2 | $z_0$ | 41 | 85 | 37 | 6 | - | 4 | - | 0 | 4-6 | - | 0 | 2 |
| | Mildenhall ... | 23·2 | -4 | S'E | 2 | $z_0$ | 36 | 92 | 35 | 6 | - | 7 | 1 | 0 | 2-3 | - | 1 | * |
| | Cranwell ... | 21·2 | -14 | SSW | 3 | c-bc | 40 | 85 | 38 | 7 | - | 7 | 2 | 0 | 7-8 | - | 0 | * |
| 3 | Birmingham ... | 21·6 | -6 | S | 3 | c-bc | 44 | 85 | 40 | 8 | 5 | 7 | 6 | 2-3 | 7-8 | 2500 | 1 | * |
| | Upper Heyford | 23·4 | -6 | - | 0 | $z_0$ | 39 | 92 | 36 | 6 | 5 | 7 | 1 | 2-3 | 9 | 3000 | 0 | * |
| 4 | Ross-on-Wye | 21·5 | -8 | S'W | 2 | c | 47 | 85 | 43 | 7 | 5 | - | 6 | 4-6 | 9+ | 2000 | 0 | * |
| 5 | Hartland Point | 20·2 | -8 | S | 3 | c | 51 | 85 | 47 | 8 | 2 | 7 | - | 1 | 9 | 2500 | 0 | 4 |
| | Bristol ... | 23·4 | -6 | SSE | 2 | c | 46 | 85 | 42 | 8 | 5 | 7 | - | 4-6 | 9+ | 4000 | 1 | * |
| | Portland Bill ... | 22·8 | -16 | SW | 3 | c | 53 | 85 | 49 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| | Plymouth ... | 22·7 | -10 | SSW | 4 | c-bc | 53 | 75 | 49 | 8 | 8 | 7 | 2 | 2-3 | 7-8 | 3000 | 1 | 3 |
| | The Lizard ... | 21·1 | -10 | SW | 5 | c-bc | 54 | 92 | 52 | 8 | 7 | 6 | - | 7-8 | 7-8 | 1500 | | 4 |
| | Scilly (St. Mary's) | 20·8 | -10 | S'W | 4 | c/pv | 53 | 92 | 51 | 7 | 5 | 7 | - | 7-8 | 10 | 1000 | 1 | 4 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 19·3 | -10 | SW'S | 6 | c/v | 51 | 97 | 51 | 8 | 8 | 6 | - | 7-8 | 9 | 2000 | 1 | 4 |
| 7 | Holyhead (Valley) | 17·4 | -10 | SSW | 6 | c/d | 54 | 85 | 49 | 8 | 7 | 7 | - | 1 | 9+ | 1000 | 1 | 3 |
| | Chester (Sealand) | 19·2 | -12 | SSE | 3 | c | 44 | 85 | 40 | 6 | 5 | - | 8 | 7-8 | 9+ | 4000 | 0 | * |
| 8 | Manchester ... | 19·8 | -10 | SSE | 4 | $z_0$ | 45 | 85 | 41 | 6 | 5 | 3 | - | 4-6 | 9 | 4000 | 1 | * |
| 10 | Spurn Head ... | 22·0 | -4 | SSW | 3 | bc | 44 | 85 | 39 | 7 | 5 | 3 | - | 2-3 | 4-6 | 4000 | 0 | 3 |
| | Catterick ... | 19·8 | -12 | S | 2 | f | 37 | 97 | 37 | 3 | 5 | 7 | - | 2-3 | 10 | 1500 | 0 | * |
| | Tynemouth ... | 18·6 | -8 | WSW | 3 | $z_0$ | 43 | 75 | 37 | 6 | 8 | 3 | - | 4-6 | 7-8 | 2200 | 1 | 2 |
| 11 | St. Abbs Head | 13·8 | -30 | SSW | 4 | c-bc | 45 | 92 | 43 | 7 | 5 | 4 | - | 4-6 | 7-8 | 4000 | 0 | 4 |
| | Leuchars ... | 13·2 | -20 | S | 2 | c/v | 47 | 97 | 45 | 7 | 5 | 7 | 2 | 4-6 | 9+ | 3500 | 1 | * |
| 12 | Renfrew (Abbots I.) | 12·7 | -16 | SSW | 3 | c/v | 50 | 85 | 46 | 7 | 6 | 7 | - | 4-6 | 9+ | 1600 | 1 | * |
| | Eskdalemuir ... | 14·9 | -10 | S'E | 3 | $v_0v_0$ | 46 | 97 | 46 | 7 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| | Point of Ayre ... | 15·3 | -16 | WSW | 4 | c/pv | 53 | 85 | 49 | 8 | 8 | 2 | - | 4-6 | 10 | 1800 | 0 | 4 |
| 13A | Tiree ... ... | 06·9 | -20 | SW'S | 7 | vv | 51 | 97 | 51 | 7 | - | 2 | - | 10 | 10 | 1200 | 1 | 6 |
| 13B | Stornoway ... | 04·7 | +12 | WSW | 5 | vv | 48 | 97 | 48 | 7 | 5 | 2 | - | 9 | 10 | 1500 | 1 | 3 |
| 15 | Dalwhinnie ... | 09·3 | -16 | SSW | 3 | c | 45 | 85 | 43 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Aberdeen † ... | 13·1 | -24 | S'W | 2 | bc | 46 | 85 | 42 | 7 | 5 | 7 | - | 2-3 | 4-6 | 2500 | 1 | 2 |
| | Wick ... | 09·0 | -20 | S'W | 5 | c | 49 | 85 | 45 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | * |
| 16 | Sumburgh .. | | | | | | | | | | | | | | | | | |
| 17 | Blacksod Point | 12·1 | +12 | W | 2 | RR | 50 | 92 | 48 | 7 | 6 | 2 | - | 2-3 | 10 | 1500 | 2 | 2 |
| 18 | Malin Head ... | 09·3 | -4 | S | 5 | c | 51 | 85 | 37 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 4 |
| | Aldergrove ... | 13·5 | -18 | S | 3 | id. | 49 | 85 | 46 | 8 | 5 | 2 | - | 7-8 | 10 | 3000 | 1 | * |
| 19 | Birr Castle ... | 14·0 | -14 | S | 3 | c | 51 | 92 | 49 | 7 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 15·0 | -2 | SW'S | 4 | c | 54 | 97 | 50 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 4 |
| | Roches Point | 16·2 | -14 | SSW | 4 | iv | 54 | 92 | 52 | 8 | 6 | 2 | - | 4-6 | 9 | 1500 | 1 | 5 |

## PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h–18h °F. (33) | Temperature Min. Night 18h–7h °F (34) | Temperature Min. on Grass °F. (35) | Rainfall Day 7h–18h mm. (36) | Rainfall Night 18h–7h mm. (37) | Sunshine 11th Hrs. (38) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 55 | 38 | 25 | - | Tr | 7·7 |
| | Croydon ... | 56 | 38 | 35 | - | Tr | 8·0 |
| | S. Farnborough | 57 | 33 | 23 | - | - | 6·8 |
| | Boscombe Down | 56 | 37 | 31 | - | Tr | 7·0 |
| | Thorney Island | 58 | 38 | 33 | - | - | * |
| | Lympne ... | 55 | 38 | 28 | - | - | 8·0 |
| | Manston ... | 56 | 40 | 33 | - | - | 7·9 |
| 2 | Shoeburyness ... | 59 | 40 | 30 | - | - | 8·5 |
| | Felixstowe ... | 57 | 43 | 33 | - | - | 8·3 |
| | Gorleston ... | 58 | 41 | 36 | - | - | 6·1 |
| | Mildenhall ... | 58 | 34 | 29 | - | Tr | 7·9 |
| | Cranwell ... | 58 | 35 | 29 | - | - | 7·6 |
| 3 | Birmingham ... | 54 | 39 | 30 | - | - | 6·7 |
| | Upper Heyford | 54 | 37 | 31 | - | - | 0·0 |
| 4 | Ross-on-Wye | 57 | 35 | 28 | - | - | 7·3 |
| 5 | Hartland Point | 55 | 47 | 46 | Tr | - | 3·9 |
| | Bristol ... | 56 | 44 | 29 | - | - | 8·8 |
| | Portland Bill ... | 57 | 47 | * | - | - | * |
| | Plymouth ... | 59 | 41 | 33 | - | 0·6 | 7·7 |
| | The Lizard ... | 60 | 50 | * | - | Tr | 8·4 |
| | Scilly (St. Mary's) | 61 | 50 | * | * | Tr | 8·1 |
| | Guernsey ... | | | | | | |
| 6 | Pembroke ... | 55 | 49 | * | - | 0·3 | 7·7 |
| 7 | Holyhead (Valley) | 55 | 50 | 43 | - | 3 | * |
| | Chester (Sealand) | 54 | 39 | 40 | - | - | 6·4 |
| 8 | Manchester ... | 54 | 39 | 37 | Tr | - | * |
| 10 | Spurn Head ... | 54 | 42 | * | - | - | 7·6 |
| | Catterick ... | 56 | 34 | 28 | - | - | 8·0 |
| | Tynemouth ... | 55 | 41 | 37 | - | - | * |
| 11 | St. Abbs Head | 52 | 41 | * | - | - | * |
| | Leuchars ... | 54 | 42 | 37 | - | Tr | 7·0 |
| 12 | Renfrew (Abbots I.) | 53 | 45 | 38 | - | 0·1 | 5·8 |
| | Eskdalemuir ... | 52 | 35 | 30 | Tr | 0·5 | 4·8 |
| | Point of Ayre ... | 55 | 41 | * | - | Tr | 4·1 |
| 13A | Tiree ... ... | 52 | 49 | * | 0·4 | 1 | 3·6 |
| 13B | Stornoway ... | 51 | 49 | * | 0·2 | 4 | 3·2 |
| 15 | Dalwhinnie ... | 49 | 42 | 39 | - | 1 | 4·9 |
| | Aberdeen † ... | 51 | 40 | 34 | - | - | 4·6 |
| | Wick ... | 50 | 44 | | 2 | Tr | * |
| 16 | Sumburgh .. | 49 | | | - | | |
| 17 | Blacksod Point | 56 | 49 | * | 0·1 | 5 | * |
| 18 | Malin Head ... | 53 | 48 | | 1 | Tr | 1·8 |
| | Aldergrove ... | 54 | 42 | 37 | - | 0·3 | 4·1 |
| 19 | Birr Castle ... | 57 | 49 | 46 | - | 0·6 | 6·7 |
| 20 | Valentia Obsy. | 58 | 53 | 49 | Tr | 3 | 2·7 |
| | Roches Point | 57 | 52 | * | 0·4 | 3 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 11th October ... 18h. G.M.T.

| IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 109 10 | 01853 | 25414 | 17 | 02832 | 20315 |
| 115 | | | 52 | 62735 | 53468 |
| 203 17 | 02952 | 24418 | | | |
| 206 10 | 02962 | 24227 | 52 | 02964 | 24228 |
| 210 20 | 02963 | 23315 | 07 | 02930 | 14227 |
| 220 | | | 52 | 03745 | 21428 |
| 230 14 | 01963 | 22314 | 57 | 22965 | 16167 |
| 245 24 | 02963 | 28314 | 04 | 02890 | 22118 |
| 260 20 | 01864 | 25315 | 07 | 02790 | 23215 |
| 278 87 | 25957 | 25487 | 57 | 02762 | 14126 |
| 279 20 | 01864 | 22315 | 47 | 02853 | 26226 |
| 285 | | | | | |
| 288 10 | 01955 | 56415 | 14 | 01861 | 20324 |
| 575 14 | 01951 | 24216 | 5- | 61847 | 20267 |
| 301 80 | 02855 | 26415 | 50 | 01763 | 25214 |
| 321 26 | 01854 | 26414 | 43 | 05663 | 24326 |
| 299 20 | 02864 | 26314 | | | |
| 292 2- | 02965 | 23316 | | | |
| 310 | | | | | |
| 614 17 | 02763 | 24414 | 46 | 05562 | 28224 |

01h. G.M.T. 12th October ... 07h. G.M.T.

| C$_L$C$_M$ | wwVhN$_h$ | DDFWN | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 5- | 02754 | 16514 | 57 | 02855 | 48515 |
| 52 | 02833 | 49488 | 52 | 02844 | 53487 |
| | | | | | |
| 57 | 02864 | 24426 | 57 | 02963 | 22328 |
| 51 | 02864 | 12228 | 57 | 02884 | 13327 |
| | | | 5- | 64628 | 20268 |
| 52 | 62855 | 18367 | 52 | 62845 | 18268 |
| 50 | 01762 | 18212 | 57 | 22766 | 18368 |
| 50 | 01863 | 20313 | 52 | 25863 | 51485 |
| 5- | 61757 | 18347 | 57 | 02861 | 19368 |
| 50 | 01762 | 16212 | 57 | 64656 | 16467 |
| | | | | | |
| 04 | 01890 | 15311 | 57 | 02761 | 17328 |
| 57 | 61745 | 16468 | 57 | 22745 | 18468 |
| 00 | 05690 | 18203 | 50 | 24061 | 16254 |
| 04 | 05590 | 16214 | | | |
| 50 | 01762 | 24302 | 50 | 01554 | 21314 |
| 00 | 05690 | 14110 | 63 | 43364 | 09146 |
| | | | -- | 01426 | 24116 |
| 54 | 08474 | 24115 | 57 | 05575 | 00017 |

13h. G.M.T. 11th October ... 18h. G.M.T.

| IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 333 2- | 02965 | 26315 | 53 | 01863 | 20113 |
| 334 | | | | | |
| 340 8- | 02955 | 26-25 | 64 | 02961 | 23327 |
| 136 20 | 05654 | 25414 | 43 | 02763 | 24218 |
| 336 | | | | | |
| 350 1- | 02755 | 26325 | 80 | 02761 | 20226 |
| 368 70 | 01864 | 24314 | 40 | 01853 | 24113 |
| 379 8- | 02946 | 26416 | | | |
| 390 4- | 02765 | 28414 | 44 | 05663 | 22225 |
| 382 5- | 02965 | 28315 | 56 | 02865 | 00027 |
| 438 10 | 02755 | 22315 | 80 | 01764 | 21214 |
| 430 50 | 02864 | 26414 | 50 | 02764 | 22114 |
| 409 14 | 01954 | 27414 | 14 | 01851 | 20112 |

01h. G.M.T. 12th October ... 07h. G.M.T.

| C$_L$C$_M$ | wwVhN$_h$ | DDFWN | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 8- | 25754 | 18414 | 87 | 25855 | 19387 |
| | | | | | |
| 07 | 01790 | 17101 | | | |
| 50 | 05661 | 00011 | 54 | 05663 | 17203 |
| | | | 52 | 22755 | 20167 |
| -- | 05690 | 18212 | 54 | 05613 | 16213 |
| 5- | 02766 | 20216 | 57 | 02864 | 20326 |
| 00 | 00790 | 24100 | 54 | 02855 | 20226 |
| 00 | 05590 | 22110 | 50 | 08461 | 20214 |
| 00 | 04590 | 00000 | 54 | 02865 | 00027 |
| 8- | 02665 | 22215 | 61 | 02766 | 32128 |
| 5- | 05665 | 32225 | 57 | 05674 | 00027 |
| 8- | 02775 | 15318 | 87 | 02855 | 14367 |

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 12th October
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 * ... | bbcw | bccz$_0$ | cbcm$_0$ |
| Croydon ... | bczbcy | bcyczz$_0$ | czcmw |
| Greenwich ... | bbcy | cy | cbcm |
| Camden Square | b | bc | * |
| *Kensington ... | bc | bc | * |
| Hampstead ... | bc | bc | bc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. Time 0·4 2 hrs. 11th; Min. Time 0·1 0·5 hrs. 12th.

| 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 ... ... | 55 | 38 | 25 | - | Tr | 7·7 | * | * |
| Croydon ... | 56 | 38 | 35 | - | Tr | 8·0 | * | * |
| Greenwich .. | 57 | 36 | 24 | - | Tr | 7·6 | 50 | 67 |
| Westminster .. | 59 | 40 | 35 | - | - | * | 56 | 79 |
| Regents Park .. | 56 | 39 | 31 | - | - | * | 57 | 65 |
| Camden Square | 58 | 39 | 32 | - | - | * | * | 77 |
| Kensington .. | 58 | 38 | 25 | - | - | * | 72 | 73 |
| Hampstead .. | 57 | 39 | 33 | - | - | * | * | 73 |

Page 1

**BRITISH SECTION**

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

**SECRET**

Tuesday 13th October, 1942

No. 29545

## OBSERVATIONS at 13h. G.M.T. 12th October

| 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 | -14 | SW'S | 3 | c | 55 | 65 | 45 | 8 | 5 | 7 | - | 7-8 | 10 | 2500 |
| | Croydon | 22·6 | -12 | S'E | 3 | c | 57 | 65 | 47 | 7 | 5 | 7 | - | 4-6 | 10 | 2500 |
| | S. Farnborough | 22·1 | -8 | SW'S | 3 | c | 56 | 65 | 44 | 8 | 6 | 7 | 6 | 4-6 | 10 | 2000 |
| | Boscombe Down | 22·1 | -14 | S'W | 3 | c/r | 53 | 85 | 48 | 7 | 5 | 2 | - | 7-8 | 10 | 6000 |
| | Thorney Island | 22·2 | +12 | SW | 3 | c | 57 | 65 | 47 | 9 | 5 | 7 | - | 7-8 | 9 | 5700 |
| | Lympne | 23·4 | -12 | SSW | 1 | c | 55 | 65 | 45 | 8 | 5 | 7 | 6 | 2-3 | 9+ | 5000 |
| | Manston | 22·6 | -16 | SSW | 3 | c | 58 | 45 | 39 | 8 | - | 8 | - | 0 | 9+ | - |
| 2 | Shoeburyness | 22·2 | -4 | SW | 3 | c | 58 | 65 | 45 | 8 | 5 | 7 | - | 4-6 | 9+ | 4500 |
| | Felixstowe | 22·7 | -10 | S'W | 3 | c | 56 | 65 | 43 | 7 | 5 | 7 | - | 7-8 | 9+ | 7200 |
| | Gorleston | 21·4 | -10 | SW'W | 4 | c | 55 | 85 | 48 | 7 | - | 7 | - | 0 | 9 | - |
| | Mildenhall | 21·4 | -8 | SW | 4 | c | 56 | 65 | 43 | 7 | 5 | 7 | - | 7-8 | 10 | 4000 |
| | Cranwell | 19·7 | -10 | SW'S | 5 | c | 53 | 75 | 44 | 7 | 5 | 7 | - | 9 | 10 | 4500 |
| 3 | Birmingham | 18·9 | -10 | SSW | 3 | c | 52 | 85 | 48 | 8 | 5 | 7 | - | 4-6 | 9+ | 2500 |
| | Upper Heyford | 21·7 | -10 | SW | 3 | c | 52 | 75 | 47 | 8 | 5 | 2 | - | 9 | 10 | 2000 |
| 4 | Ross-on-Wye | 19·8 | -10 | SW'S | 4 | c | 56 | 75 | 48 | 8 | 1 | 7 | 8 | 2-3 | 9 | 2500 |
| 5 | Hartland Point | 19·0 | -8 | SW | 4 | ir | 55 | 92 | 52 | 7 | 8 | 2 | - | 7-8 | 10 | 1000 |
| | Bristol | 21·9 | -6 | SW | 3 | c | 56 | 85 | 50 | 8 | 5 | 7 | - | 4-6 | 9+ | 2500 |
| | Portland Bill | 21·7 | -8 | S | 4 | c | 57 | 85 | 53 | 8 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 21·8 | -8 | SSW | 4 | c | 57 | 85 | 52 | 8 | 7 | 7 | - | 4-6 | 9+ | 3000 |
| | The Lizard | 20·1 | -12 | SSW | 5 | r0r0 | 55 | 85 | 51 | 8 | 8 | 2 | - | 9 | 10 | 1000 |
| | Scilly (St. Mary's) | 20·1 | -4 | SW | 3 | r | 56 | 92 | 53 | 8 | 8 | 2 | - | 7-8 | 9+ | 1000 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 19·0 | 0 | WSW | 5 | cq | 56 | 92 | 54 | 8 | 8 | 6 | - | 7-8 | 9+ | 2500 |
| 7 | Holyhead (Valley) | 16·8 | -2 | SW | 6 | ir | 56 | 85 | 52 | 7 | 6 | 7 | - | 4-6 | 9+ | 1000 |
| | Chester (Sealand) | 17·5 | -6 | SSE | 1 | c | 55 | 85 | 49 | 7 | 5 | 7 | - | 7-8 | 10 | 2000 |
| 8 | Manchester | 18·0 | -14 | SSE | 4 | c/r | 52 | 85 | 48 | 6 | 5 | 7 | - | 4-6 | 9+ | 2500 |
| 10 | Spurn Head | 19·5 | -22 | SW | 4 | cq | 55 | 65 | 42 | 7 | 7 | 3 | - | 4-6 | 9+ | 2500 |
| | Catterick | 16·8 | -14 | SE'S | 3 | m/f | 51 | 85 | 46 | 4 | 5 | 7 | - | 4-6 | 10 | 2500 |
| | Tynemouth | 16·5 | -6 | SW | 3 | c/pr | 50 | 85 | 45 | 5 | 8 | - | - | 9 | 9 | 2200 |
| 11 | St. Abbs Head | 11·7 | -20 | SW | 4 | r0r0 | 50 | 92 | 48 | 7 | 6 | - | - | 10 | 10 | 2000 |
| | Leuchars | 11·3 | -6 | SW | 4 | ir0 | 53 | 92 | 51 | 7 | 5 | 7 | - | 7-8 | 10 | 1400 |
| 12 | Renfrew (Abbots I.) | 12·7 | +12 | W | 2 | c/r | 51 | 92 | 48 | 8 | 7 | 7 | - | 7-8 | 9+ | 2500 |
| | Eskdalemuir | 13·2 | -6 | SW'S | 4 | r0r0 | 51 | 92 | 49 | 6 | 6 | 2 | - | 7-8 | 10 | 500 |
| | Point of Ayre | 14·5 | -2 | W'S | 4 | r0r0 | 53 | 97 | 52 | 7 | 6 | 2 | - | 4-6 | 10 | 1000 |
| 13A | Tiree | 12·1 | +22 | NW | 5 | bc | 53 | 75 | 43 | 8 | 1 | - | 6 | 2-3 | 4-6 | 3500 |
| 13B | Stornoway | 08·7 | +18 | W | 6 | bc | 52 | 75 | 45 | 8 | 2 | 4 | - | 2-3 | 4-6 | 3000 |
| 15 | Dalwhinnie | 11·7 | +16 | WSW | 3 | bc | 50 | 75 | 42 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 |
| | Aberdeen | 10·8 | -4 | SSW | 3 | rr | 51 | 92 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Wick | 09·6 | +6 | SW | 1 | r0r0 | 49 | 97 | 48 | 8 | 5 | 2 | - | 4-6 | 9+ | 3000 |
| 16 | Sumburgh | 07·3 | -6 | SSW | 6 | rr | 50 | 92 | 48 | 6 | 5 | 2 | - | 4-6 | 10 | 2000 |
| 17 | Blacksod Point | 17·9 | +34 | NW | 3 | b-bc | 54 | 85 | 50 | 8 | 5 | - | 5 | 2-3 | 2-3 | 4000 |
| 18 | Malin Head | 14·2 | +22 | WNW | 4 | bc | 52 | 75 | 47 | 8 | 9 | - | - | 4-6 | 4-6 | 2500 |
| | Aldergrove | 14·9 | +18 | W'S | 2 | c | 51 | 85 | 48 | 9 | 8 | 7 | - | 7-8 | 9+ | 3000 |
| 19 | *Birr Castle | 16·6 | +22 | N | 2 | c-bc | 55 | 75 | 48 | 8 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 20 | Valentia Obsy. | 18·6 | +18 | NNW | 4 | bc | 56 | 75 | 49 | 9 | 2 | - | 1 | 4-6 | 4-6 | 2500 |
| | Roches Point | 16·9 | +6 | WNW | 4 | id | 54 | 92 | 52 | 6 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 18h. G.M.T. 12th October

| 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) | 21·1 | -4 | SSW | 2 | z0 | 53 | 85 | 48 | 6 | 5 | 7 | - | 7-8 | 9+ | 4000 | 1 | * |
| Croydon | 21·9 | -4 | S'W | 1 | c-bc | 52 | 85 | 49 | 6 | 5 | 7 | 6 | 1 | 7-8 | 3500 | 1 | * |
| S. Farnborough | 21·2 | -10 | S'W | 3 | z0 | 53 | 85 | 47 | 6 | 7 | 7 | 5 | Tr | 9 | 3500 | 0 | * |
| Boscombe Down | 21·0 | -2 | S'W | 3 | c | 54 | 85 | 49 | 7 | 5 | 7 | - | 9 | 10 | 5000 | | * |
| Thorney Island | 21·4 | -6 | SW | 3 | fg | 54 | 85 | 49 | 8 | 1 | 7 | 8 | Tr | 9 | 4000 | 0 | |
| Lympne | 22·4 | -2 | SSW | 1 | c | 52 | 75 | 46 | 8 | 5 | 9 | - | 4-6 | 9+ | 4000 | 1 | 4 |
| Manston | 21·8 | -2 | S'W | 1 | c | 53 | 75 | 47 | 8 | 5 | 7 | - | 9 | 9+ | 5500 | 1 | * |
| Shoeburyness | 21·6 | -2 | SW'S | 3 | c | 55 | 85 | 49 | 6 | 5 | 7 | - | 9 | 10 | 4300 | 0 | * |
| Felixstowe | 21·8 | +2 | SSW | 3 | c | 55 | 75 | 48 | 7 | 5 | 7 | - | 7-8 | 9 | 7200 | 0 | 2 |
| Gorleston | 20·7 | -2 | SW | 3 | z0 | 54 | 75 | 46 | 6 | 5 | 4 | - | 9 | 10 | 1000 | 0 | 3 |
| Mildenhall | 20·1 | -6 | SSW | 3 | c | 53 | 75 | 46 | 8 | 5 | 3 | 2 | 1 | 9+ | 4000 | 0 | * |
| Cranwell | 18·5 | -2 | S'E | 3 | c | 51 | 85 | 46 | 7 | 5 | 7 | - | 4-6 | 9 | 3500 | 0 | * |
| Birmingham | 19·1 | -2 | SSW | 2 | c | 53 | 85 | 49 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 20·2 | -2 | SSW | 2 | ir0 | 53 | 85 | 48 | 7 | 5 | 7 | - | 4-6 | 10 | 3500 | 0 | * |
| Ross-on-Wye | 19·1 | -4 | SW | 3 | c | 54 | 85 | 50 | 7 | 5 | 7 | - | 9 | 9+ | 2500 | 0 | * |
| Hartland Point | 19·4 | +8 | W | 3 | c | 56 | 85 | 51 | 8 | 5 | 2 | - | 7-8 | 9+ | 2000 | 0 | 4 |
| Bristol | 20·7 | 0 | SW | 2 | c | 55 | 85 | 50 | 7 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | * |
| Portland Bill | 20·4 | -8 | SW | 4 | o | 58 | 92 | 55 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Plymouth | 20·5 | -6 | SW'S | 4 | c/r | 56 | 97 | 55 | 7 | 5 | - | - | 9 | 9 | 1000 | 1 | 3 |
| The Lizard | 19·9 | +4 | W'S | 1 | c-bc | 55 | 97 | 55 | 8 | 8 | 6 | - | 7-8 | 7-8 | 2000 | 1 | 4 |
| Scilly (St. Mary's) | 20·0 | +4 | SW'W | 2 | bc | 56 | 92 | 54 | 8 | 8 | 4 | 4 | 2-3 | 4-6 | 1000 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 19·1 | +2 | SW'W | 5 | c/r | 56 | 97 | 56 | 8 | 8 | 3 | - | 9+ | 9+ | 2000 | 1 | 3 |
| Holyhead (Valley) | 17·8 | +14 | NW'N | 2 | c-bc | 52 | 85 | 47 | 7 | 5 | 7 | 8 | 4-6 | 7-8 | 2000 | 1 | 4 |
| Chester (Sealand) | 17·0 | -2 | S | 1 | c | 56 | 75 | 48 | 7 | 4 | 7 | - | 7-8 | 9+ | 1800 | 0 | * |
| Manchester | 17·2 | -4 | SSE | 4 | c/r | 53 | 85 | 49 | 6 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | * |
| Spurn Head | 18·1 | -2 | SSW | 4 | c-bc | 54 | 75 | 47 | 7 | 7 | 3 | - | 4-6 | 7-8 | 2500 | 0 | 3 |
| Catterick | 15·5 | -2 | S | 2 | ir0 | 53 | 85 | 49 | 5 | 5 | 2 | - | 4-6 | 10 | 1000 | 0 | * |
| Tynemouth | 15·7 | +2 | SW | 3 | ir0 | 53 | 92 | 50 | 5 | - | 2 | - | 10 | 10 | 2000 | 1 | 3 |
| St. Abbs Head | 13·0 | +8 | W | 3 | c-bc | 50 | 85 | 46 | 7 | 5 | 4 | - | 2-3 | 7-8 | 3000 | 0 | 3 |
| Leuchars | 14·1 | +18 | WNW | 2 | c | 50 | 85 | 47 | 8 | 5 | 7 | - | Tr | 10 | 3000 | 1 | * |
| Renfrew (Abbots I.) | 15·7 | +22 | — | 0 | c | 48 | 75 | 40 | 8 | 4 | 2 | 7 | 1 | 9+ | 2000 | 1 | * |
| Eskdalemuir | 15·3 | +10 | NW'N | 2 | c-bc | 46 | 85 | 42 | 8 | 5 | 7 | - | 2-3 | 7-8 | 1500 | 1 | * |
| Point of Ayre | 16·5 | +22 | N | 5 | c | 52 | 85 | 48 | 8 | 2 | 7 | 7 | 1 | 10 | 2500 | 1 | 4 |
| Tiree | 15·5 | +10 | WNW | 5 | c | 50 | 75 | 40 | 8 | 8 | - | 8 | 4-6 | 9 | 2800 | 0 | 5 |
| Stornoway | 12·4 | +8 | WSW | 5 | bc | 48 | 92 | 46 | 8 | 2 | 4 | 4 | 1 | 4-6 | 3500 | 1 | 4 |
| Dalwhinnie | 14·2 | +18 | SW | 2 | c | 42 | 75 | 36 | 8 | 5 | 4 | 6 | 4-6 | 9 | 2500 | 1 | * |
| Aberdeen | 13·7 | +20 | — | 0 | c | 48 | 85 | 44 | 6 | 5 | 7 | - | 2-3 | 9+ | 2500 | 1 | 2 |
| Wick | 13·1 | +20 | W | 3 | bc | 45 | 85 | 39 | 9 | 8 | 7 | - | 2-3 | 4-6 | 3000 | 1 | * |
| Sumburgh | 09·3 | +14 | W | 6 | c-bc | 51 | 65 | 49 | 8 | 2 | - | 6 | 2-3 | 7-8 | 2500 | 1 | 4 |
| Blacksod Point | 19·7 | +10 | WNW | 3 | c-bc | 50 | 92 | 48 | 8 | 8 | - | 6 | 4-6 | 7-8 | 4000 | 1 | 3 |
| Malin Head | 17·1 | +14 | W | 3 | c | 50 | 65 | 39 | 8 | 2 | - | 7 | 2-3 | 10 | 2500 | 1 | 3 |
| Aldergrove | 18·4 | +18 | — | 0 | c | 52 | 85 | 49 | 8 | - | 7 | - | 0 | 10 | - | 1 | * |
| *Birr Castle | 18·6 | +12 | N | 1 | bc | 51 | 85 | 47 | 8 | 5 | - | 4 | 4-6 | 4-6 | 2500 | 1 | * |
| Valentia Obsy. | 21·0 | +16 | N'W | 2 | c | 51 | 85 | 47 | 8 | 8 | - | 2 | 1 | 9 | 2500 | 1 | 3 |
| Roches Point | 19·2 | +16 | NW | 3 | b-bc | 55 | 85 | 51 | 8 | 5 | - | 5 | 1 | 2-3 | 2500 | 1 | 3 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 12th (39) | Weather 13h.—18h. 12th (40) | Weather 18h. 12th – 1h. 13th (41) | Weather 1h.—7h. 13th (42) |
|---|---|---|---|---|
| London (Kew) | cm0c | cir0cm0 | cbcm0w | bcc r0 |
| Croydon | cz0c | cm0 | cm0cm0id0 | |
| S. Farnborough | cmmc | cir0cm0 | cm0r0 | cr0m0jp |
| Boscombe Down | bcid0c | c | cdcid0 | cm0d0d0 |
| Thorney Island | cfgd0c | bccfg | cfgcid0d0d | cd0bccfg |
| Lympne | cvc | c | c | cd0 |
| Manston | cjf⊕ | c | cbc | cirf ir0m0 |
| Shoeburyness | cm0bcc | cm0 | | cr0r0 |
| Felixstowe | bccm0c | c | bccm0 | cm0did0m0 |
| Gorleston | cz0 | cz0 | bm0l | |
| Mildenhall | bcm0ic | c | cm0bcm0 | bcm0cm0ir0bcm0 |
| Cranwell | bcc | c | cm0ir0bm0 | bbcm0 |
| Birmingham | c | c | cir0 | r0bcm |
| Upper Heyford | c | ccir0 | cbcm0cm0 | cid0mcm0 |
| Ross-on-Wye | c | c | ccp | cmbf |
| Hartland Point | cir | cirpbc | cr0rrc | cbcm0 |
| Bristol | cir0c | cpr0c | bcm0bcw | bcid0ir0r0 |
| Portland Bill | c | c | cprc | c |
| Plymouth | c | cddir0 | cbccm0 | r0r0bcm0b |
| The Lizard | prr0 | crrc | bcbc | bcbc |
| Scilly (St. Mary's) | c | r0cbc | bccw | cbccw |
| Guernsey | | | | |
| Pembroke | cprq | ir0c | bc | bc |
| Holyhead (Valley) | cid0ir0 | cir0c | cbcpr0b | bbc |
| Chester (Sealand) | cm0 | cjpc | cr0r0bm0 | bbccm0 |
| Manchester | cm0ir0 | cm0ir0 | ir0id0d d | bm0fg |
| Spurn Head | cq | c | ir0c | bc |
| Catterick | fcm | cmcir0m0 | crm0bm0 | bz0 |
| Tynemouth | cm0c | cm0p0 | oir0bc | bcm0 |
| St. Abbs Head | cr0 | cprc | cbcb | bbcc |
| Leuchars | circcir0 | cir0r0cbc | c | ccyw |
| Renfrew (Abbots I.) | cir0c | c | cr0r0bcb | bcm0bc |
| Eskdalemuir | cr0r0 | circ | cbcb | bfg |
| Point of Ayre | cr0r0 | r0r0c | cbcc | bbc |
| Tiree | cprbc | bcc | cpr r0 | cprbcjp |
| Stornoway | cprbc | bc | bprbc | bcpr |
| Dalwhinnie | cprbc | bcc | | cprbc |
| Aberdeen | cr0r0rr | cr0r0ir0m0 | cbcm0w | bcm0cw |
| Wick | cir0 | cbc | bbc | cb |
| Sumburgh | cr0rrm0 | crr, bcc | bcprbc | bcprbc |
| Blacksod Point | bc | r | pr | bc |
| Malin Head | c | r | bc | pr |
| Aldergrove | cr0r0m0c | cpr0c | bbc | bcbbc |
| *Birr Castle | r | bc | | c |
| Valentia Obsy. | r | bc | bc | cbc |
| Roches Point | d | d | bc | bc |

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

| Districts | Forecast |
|---|---|
| 1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands | Light northerly wind, becoming variable to southwesterly; fair with considerable bright periods; local mist or fog patches around dawn: average temperature. |
| 5 S.W. England, 6 South Wales | Light northerly wind, backing southwest, moderate; fair at first, cloudy with slight rain later: 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 | Light or moderate westerly wind, backing southwest and freshening, becoming strong to gale on Northwest seaboard later. Fair at first apart from scattered showers; cloudy later with rain spreading from West: average temperature. |
| 16 Orkneys and Shetlands | As 7-15. |
| 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland | Light west wind backing southwest and freshening; fair at first, cloudy with slight rain later: average temperature. |

### GENERAL INFERENCE

A ridge of high pressure is moving east across the British Isles and weather will be mainly fair at first. A depression now well out on the Atlantic is developing considerably and advancing towards Iceland. A rain area associated with this depression will later affect Western and Northern districts. Temperatures generally will be about normal.

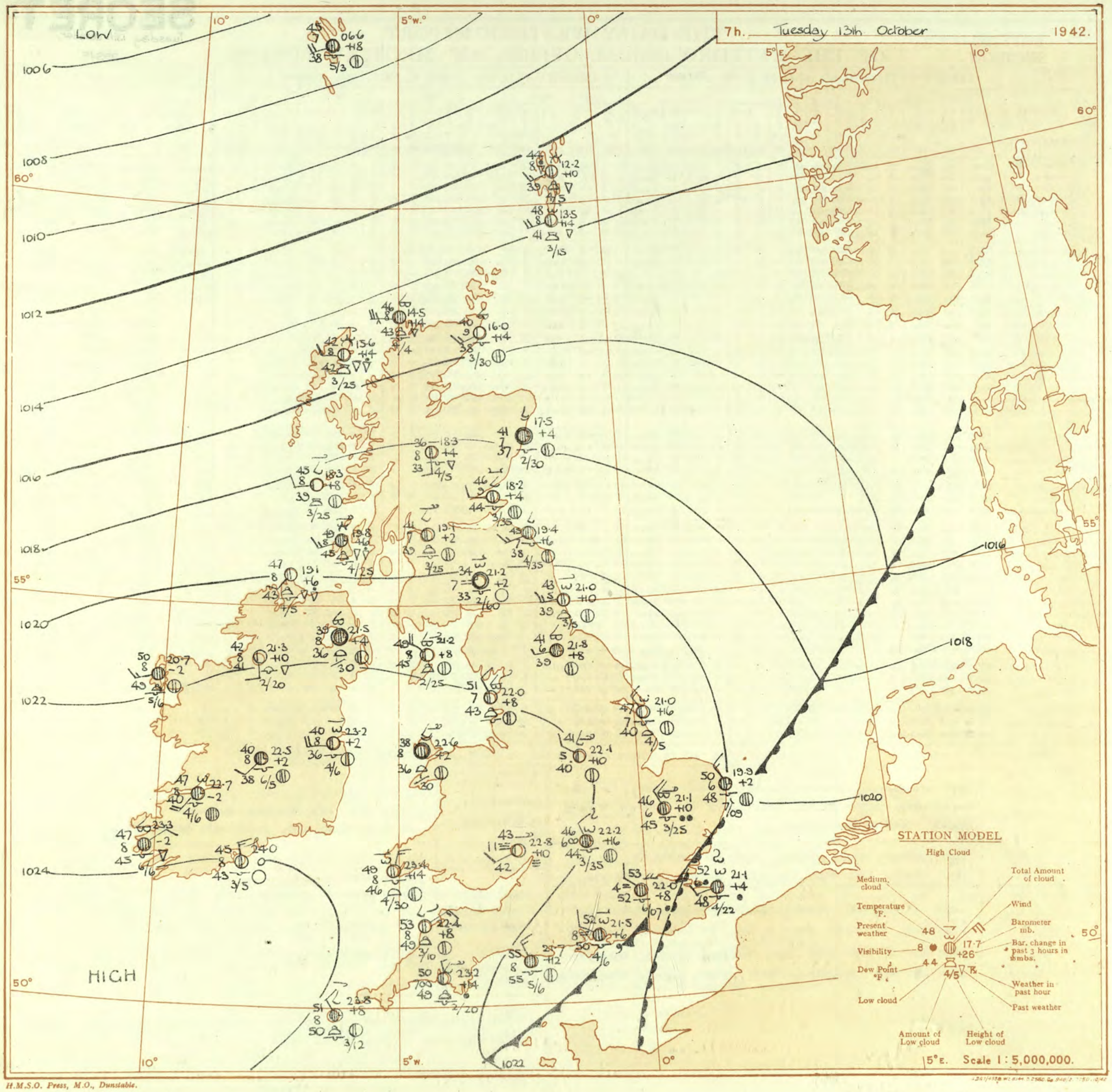
### FURTHER OUTLOOK

Rain spreading to all parts of the British Isles, but only light falls expected in the South. Showery conditions 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




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

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

**Explanation of Frontal Lines shown on Charts**

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

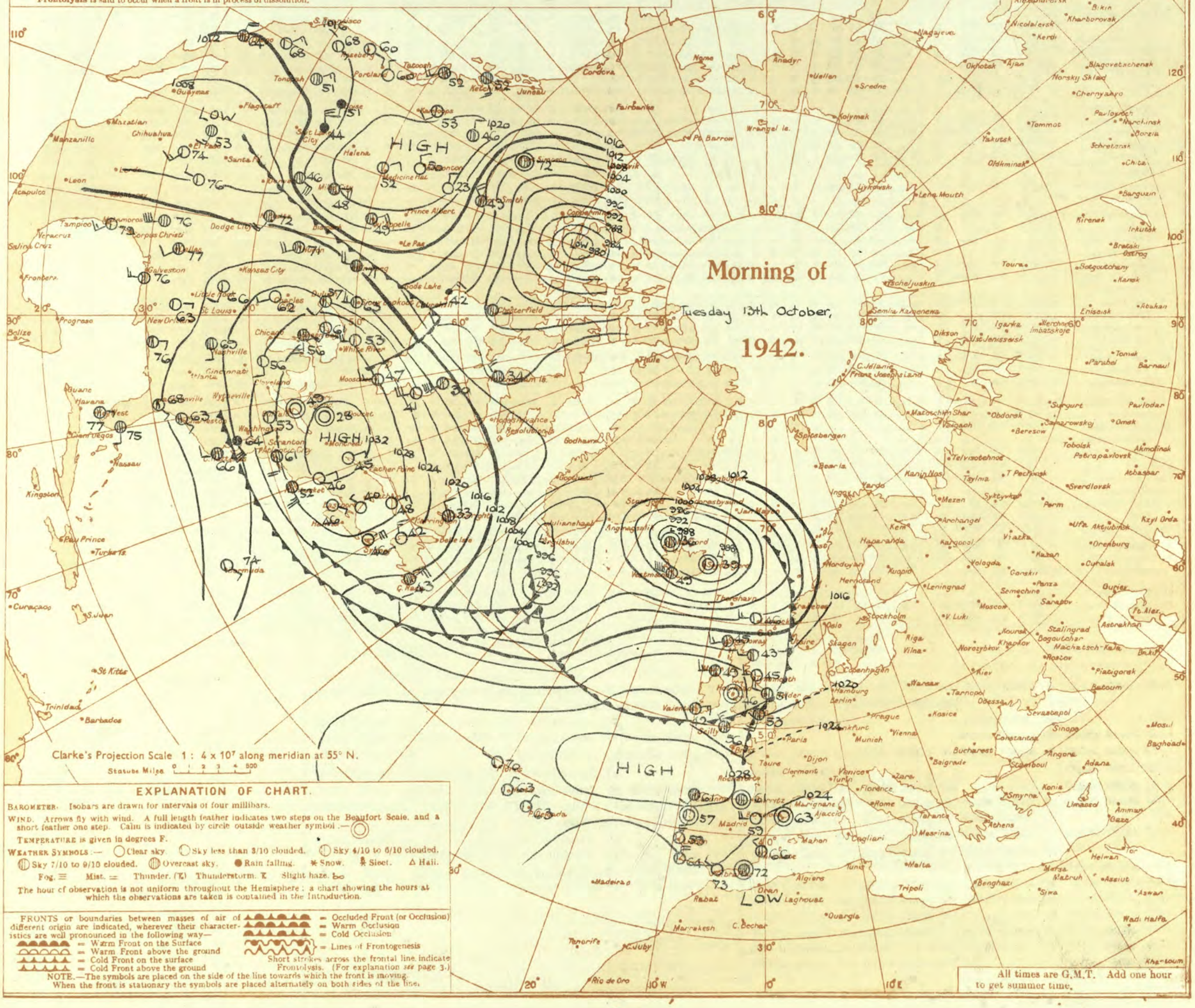
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Tuesday 13th October 1942

No. 29545

## OBSERVATIONS at 1 hr. G.M.T. 13th October

| 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 | * | * | * | * | * | 52 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 21·4 | -2 | SSW | 3 | c | 53 | 92 | 51 | 6 | 5 | 7 | - | 2-3 | 9+ | 3500 |
| | S. Farnborough | 226 | 20·6 | -4 | S'W | 1 | ₀/₀/₀ | 53 | 92 | 51 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Boscombe Down | 417 | 20·7 | -6 | S'W | 2 | id₀ | 52 | 97 | 52 | 7 | 5 | 2 | - | 7-8 | 10 | 800 |
| | Thorney Island | 10 | 21·1 | +2 | SW | 1 | d₀d₀ | 55 | 97 | 54 | 7 | 5 | - | - | 10 | 10 | 2300 |
| | Lympne .. | 283 | 21·7 | -2 | SW | 1 | c | 55 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 3000 |
| | Manston ... | 154 | 21·2 | -2 | SSW | 2 | c-bc | 52 | 85 | 48 | 7 | 5 | - | - | 7-8 | 7-8 | 5500 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 20·7 | -6 | SSW | 3 | z₀ | 52 | 85 | 47 | 6 | 5 | 7 | - | 4-6 | 10 | 4700 |
| | Gorleston ... | 5 | 199 | -4 | SW'W | 2 | z₀ | 52 | 85 | 47 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Mildenhall ... | 15 | 19·5 | -2 | SW | 3 | z₀ | 52 | 85 | 48 | 6 | - | 7 | - | 0 | 7-8 | - |
| | Cranwell ... | 203 | 18·6 | +2 | W | 3 | b/v | 51 | 92 | 49 | 6 | 5 | - | - | Tv | Tv | 3000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 19·7 | -2 | SW | 2 | z₀ | 51 | 92 | 49 | 6 | 5 | - | - | 10 | 10 | 3100 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 20·5 | +4 | SW | 2 | c/v | 52 | 97 | 51 | 7 | 5 | 2 | - | 7-8 | 10 | 800 |
| | Bristol ... | 209 | 21·0 | 0 | - | 0 | bc | 53 | 92 | 50 | 7 | 5 | 1 | - | 4-6 | 4-6 | 4000 |
| | Portland Bill ... | 32 | 20·2 | 0 | SW | 4 | c | 58 | 92 | 56 | 8 | 5 | - | - | 7-8 | 10 | 4000 |
| | Plymouth ... | 82 | 21·1 | 0 | - | 0 | z₀ | 52 | 97 | 52 | 5 | 5 | 7 | - | 7-8 | 9+ | 2000 |
| | The Lizard ... | 240 | 21·0 | +6 | NW'W | 4 | bc | 54 | 97 | 53 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 163 | 22·0 | +2 | NW'W | 3 | c | 56 | 92 | 54 | 8 | 8 | 4 | - | 7-8 | 9+ | 1200 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 21·3 | +4 | N'E | 3 | b-bc | 51 | 92 | 49 | 8 | 7 | - | - | 2-3 | 2-3 | 2000 |
| 7 | Holyhead (Valley) | 32 | 21·1 | +8 | - | 0 | b | 46 | 92 | 44 | 8 | - | - | - | 0 | 0 | - |
| | Chester (Sealand) | 16 | 20·3 | +6 | NW | 1 | z₀ | 43 | 92 | 39 | 6 | 5 | - | - | Tv | Tv | 2500 |
| 8 | Manchester ... | 235 | 20·1 | +10 | W'S | 3 | bc | 44 | 97 | 43 | 7 | 5 | - | - | Tv | Tv | 4000 |
| 10 | Spurn Head ... | 29 | 18·0 | -4 | W'N | 4 | c | 51 | 97 | 50 | 7 | 6 | 6 | - | 4-6 | 9 | 1500 |
| | Catterick ... | 175 | 19·7 | +14 | W | 2 | z₀ | 44 | 85 | 39 | 6 | - | 7 | - | 0 | Tv | - |
| | Tynemouth ... | 108 | 18·2 | +6 | W | 3 | z₀ | 45 | 85 | 40 | 6 | 2 | - | - | 2-3 | 2-3 | 2500 |
| 11 | St. Abbs Head | 280 | 16·8 | +8 | WNW | 3 | b-bcjf | 47 | 75 | 38 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 |
| | Leuchars ... | 36 | 16·9 | 0 | - | 0 | c | 48 | 92 | 45 | 7 | 5 | 7 | 7 | 2-3 | 10 | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 18·4 | +2 | SW | 1 | bc | 43 | 85 | 40 | 7 | 5 | - | - | 1 | 1 | 3000 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 20·1 | +8 | NW | 4 | c-bc | 50 | 85 | 45 | 8 | 5 | - | - | 7-8 | 7-8 | 2000 |
| 13A | Tiree ... ... | 22 | 17·1 | +4 | W'S | 4 | c/pr | 49 | 75 | 41 | 8 | 8 | 1 | - | Tv | 10 | 2500 |
| 13B | Stornoway ... | 80 | 17·1 | +2 | WSW | 3 | bc/pr | 48 | 92 | 43 | 7 | 2 | 4 | - | 2-3 | 4-6 | 3000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 16·4 | +6 | W | 1 | bc | 43 | 85 | 39 | 9 | - | 7 | - | 0 | 4-6 | - |
| | Wick ... | 114 | 14·1 | +4 | SW | 3 | b-bc | 43 | 85 | 39 | 9 | 5 | - | - | 2-3 | 2-3 | 3000 |
| 16 | Sumburgh .. | 19 | 11·7 | +4 | WSW | 6 | bc | 49 | 75 | 42 | 8 | 5 | - | 2 | 2-3 | 4-6 | 2500 |
| 17 | Blacksod Point | 18 | 21·1 | +2 | WNW | 4 | pr₀ | 50 | 85 | 46 | 8 | 6 | - | - | 9 | 9 | 2500 |
| 18 | Malin Head ... | 84 | 20·7 | +6 | W'S | 3 | r | 49 | 85 | 45 | 8 | 8 | 2 | - | 4-6 | 7-8 | 2500 |
| | Aldergrove ... | 268 | 20·6 | +4 | SW | 1 | bc | 42 | 92 | 40 | 7 | 5 | - | - | 4-6 | 4-6 | 4000 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 23·7 | +6 | NE'E | 2 | z₀ | 42 | 92 | 40 | 8 | - | - | 3 | 0 | 2-3 | - |
| | Roches Point | 22 | 23·0 | +6 | NW | 4 | c-bc | 49 | 85 | 45 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 13th October

| 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) | 21·7 | +6 | NNW | 1 | z₀ | 52 | 92 | 50 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Croydon ... | 22·0 | +8 | NW'W | 2 | m | 53 | 97 | 52 | 4 | 5 | 2 | - | 9 | 10 | 700 | 1 | * |
| S. Farnborough | 21·5 | +6 | NNW | 1 | cjp | 51 | 97 | 51 | 6 | 5 | 7 | - | 9+ | 10 | 600 | 1 | * |
| Boscombe Down | 21·9 | +12 | N | 1 | z₀ | 50 | 97 | 49 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| Thorney Island | 21·5 | +6 | WNW | 2 | fs | 52 | 92 | 49 | 8 | 5 | 3 | 1 | 4-6 | 7-8 | 4000 | 1 | * |
| Lympne .. | 21·5 | +2 | - | 0 | ₀ft | 52 | 97 | 52 | 2 | 5 | - | - | 10 | 10 | 700 | 1 | § |
| Manston ... | 21·1 | +4 | WSW | 1 | iw₀ | 52 | 85 | 51 | 6 | 5 | 3 | 6 | 4-6 | 9 | 2200 | 1 | * |
| Shoeburyness ... | 21·4 | +4 | W'N | 2 | c/v | 53 | 92 | 51 | 6 | 5 | - | - | 9+ | 9+ | 2700 | 1 | * |
| Felixstowe ... | 20·9 | +6 | W | 2 | c/d | 52 | 92 | 50 | 6 | 5 | 7 | - | 9 | 9+ | 5000 | 0 | 2 |
| Gorleston ... | 19·9 | +2 | NW | 3 | z₀ | 50 | 92 | 48 | 6 | 5 | - | - | 9+ | 9+ | 900 | 0 | 2 |
| Mildenhall ... | 21·1 | +10 | NW'N | 2 | c-bc/v | 46 | 97 | 45 | 6 | 5 | 7 | 2 | 2-3 | 7-8 | 2500 | 1 | * |
| Cranwell ... | 21·7 | +16 | WNW | 2 | z₀ | 41 | 92 | 39 | 5 | - | 4 | 5 | 0 | 4-6 | - | 3 | * |
| Birmingham ... | 24·1 | +10 | NW | 2 | m | 43 | 92 | 41 | 4 | - | - | 2 | 0 | 7-8 | - | 1 | * |
| Upper Heyford | 22·2 | +16 | NNW | 2 | z₀ | 46 | 92 | 43 | 6 | 5 | 7 | 6 | 2-3 | 9 | 3500 | 1 | * |
| Ross-on-Wye | 22·8 | +10 | SW | 1 | b-bcf+ | 43 | 97 | 42 | 1 | - | - | 2 | 0 | 2-3 | - | 1 | * |
| Hartland Point | 22·4 | +8 | NE | 3 | bc | 53 | 85 | 49 | 8 | 2 | 4 | 5 | 2-3 | 4-6 | 3000 | 1 | 4 |
| Bristol ... | 23·8 | +20 | N | 2 | fg | 48 | 97 | 46 | 6 | 5 | 3 | 2 | 2-3 | 7-8 | 2500 | 1 | * |
| Portland Bill ... | 21·7 | +12 | NW | 3 | c | 55 | 92 | 55 | 8 | 5 | - | - | 7-8 | 10 | 4000 | 1 | 4 |
| Plymouth ... | 23·2 | +14 | N'W | 1 | z₀ | 50 | 97 | 49 | 7 | 8 | 4 | 2 | 1 | 4-6 | 2000 | 1 | 3 |
| The Lizard ... | 21·9 | +10 | N'W | 3 | bc | 48 | 97 | 48 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2000 | 1 | 4 |
| Scilly (St. Mary's) | 23·8 | +8 | NW'N | 2 | c | 51 | 97 | 50 | 8 | 8 | 4 | 3 | 2-3 | 9 | 1200 | 1 | 2 |
| Pembroke ... | 23·4 | +14 | N'E | 3 | bc | 49 | 92 | 46 | 8 | 7 | 3 | 1 | 2-3 | 4-6 | 3000 | 1 | 2 |
| Holyhead (Valley) | 22·6 | +2 | - | 0 | c-bc | 38 | 92 | 36 | 8 | 1 | 9 | 2 | Tr | 7-8 | 3000 | 1 | 1 |
| Chester (Sealand) | 22·5 | +10 | WSW | 1 | c | 37 | 97 | 37 | 6 | 2 | 3 | 6 | 1 | 9 | 2500 | 1 | * |
| Manchester ... | 22·4 | +8 | SSE | 2 | m | 38 | 97 | 39 | 4 | 5 | 3 | 2 | 1 | 7-8 | 4000 | 1 | * |
| Spurn Head ... | 21·0 | +16 | NW'W | 3 | bc | 47 | 75 | 40 | 7 | 7 | 3 | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| Catterick ... | 21·8 | +8 | W | 1 | z₀ | 41 | 92 | 39 | 6 | - | 7 | - | 0 | 9 | - | 0 | * |
| Tynemouth ... | 21·0 | +10 | W | 3 | z₀ | 43 | 85 | 39 | 5 | 2 | 3 | 1 | 2-3 | 4-6 | 2500 | 1 | 2 |
| St. Abbs Head | 18·4 | +6 | WSW | 3 | c-bc | 45 | 75 | 38 | 7 | 5 | 4 | - | 4-6 | 7-8 | 3500 | 0 | 3 |
| Leuchars ... | 18·2 | +4 | W | 2 | bc | 46 | 92 | 40 | 9 | 5 | 4 | 8 | 2-3 | 4-6 | 3500 | 1 | * |
| Renfrew (Abbots I.) | 19·1 | +2 | - | 0 | bc | 41 | 92 | 39 | 7 | 8 | 4 | 2 | 2-3 | 4-6 | 2500 | 1 | * |
| Eskdalemuir ... | 21·2 | +2 | - | 0 | fg | 34 | 97 | 33 | 7 | 5 | 3 | 1 | 1 | 1 | 6000 | 1 | * |
| Point of Ayre... | 21·7 | +8 | WNW | 4 | bc | 49 | 85 | 45 | 8 | 2 | 7 | 4 | 1 | 4-6 | 2500 | 1 | 3 |
| Tiree ... ... | 19·3 | +8 | W | 2 | b-bc | 45 | 85 | 39 | 8 | 3 | 4 | 1 | 2-3 | 2-3 | 2500 | 1 | 2 |
| Stornoway ... | 15·6 | +14 | W | 2 | bc/pr | 42 | 92 | 42 | 8 | 3 | 6 | 3 | 2-3 | 4-6 | 2500 | 1 | 2 |
| Dalwhinnie ... | 18·3 | +4 | S | 2 | bc | 36 | 92 | 33 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| Aberdeen † ... | 17·5 | +4 | - | 0 | c | 41 | 85 | 37 | 7 | 5 | 9 | - | 1 | 9 | 3000 | 1 | 1 |
| Wick ... | 16·0 | +14 | SW | 3 | b-bc | 40 | 92 | 38 | 9 | 5 | 7 | - | 2-3 | 2-3 | 3000 | 1 | * |
| Sumburgh .. | 13·5 | +14 | SW'W | 4 | bc | 48 | 75 | 41 | 8 | 3 | 6 | 3 | 2-3 | 4-6 | 1500 | 1 | 4 |
| Blacksod Point | 20·7 | -2 | WSW | 3 | c-bc | 50 | 97 | 49 | 8 | 8 | - | - | 7-8 | 7-8 | 4000 | 1 | 3 |
| Malin Head ... | 19·1 | +6 | SSW | 2 | bc/pr | 47 | 85 | 43 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| Aldergrove ... | 21·5 | +4 | - | 0 | c | 39 | 92 | 36 | 8 | 1 | 7 | - | Tv | 9 | 3000 | 1 | * |
| Birr Castle ... | 22·5 | +2 | SSW | 1 | c | 40 | 92 | 38 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 23·3 | -2 | NE | 2 | c | 47 | 92 | 45 | 8 | 5 | 7 | 10 | 9 | 10 | 4000 | 1 | 3 |
| Roches Point | 24·0 | 0 | N | 3 | bc | 45 | 92 | 43 | 8 | 5 | - | 5 | 2-3 | 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 12th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 56 | 51 | 45 | Tr | 1 | 1·3 |
| Croydon ... | 58 | 53 | | - | 2 | |
| S. Farnborough | 57 | 51 | 44 | - | 2 | 0·5 |
| Boscombe Down | 56 | 50 | 45 | Tr | 0·2 | 4·0 |
| Thorney Island | 58 | 51 | 43 | - | 0·1 | * |
| Lympne .. | 55 | 50 | 44 | - | 7 | 0·1 |
| Manston ... | 60 | 51 | 47 | - | 0·1 | 1·0 |
| Shoeburyness ... | 61 | 51 | 41 | - | 1 | 2·2 |
| Felixstowe ... | 61 | 51 | 47 | - | Tv | 4·9 |
| Gorleston ... | 57 | 50 | 44 | - | - | 5·1 |
| Mildenhall ... | 58 | 44 | 39 | - | 1 | 3·2 |
| Cranwell ... | 57 | 33 | | - | 1 | 1·6 |
| Birmingham ... | 55 | 42 | 31 | - | 0·2 | 0·5 |
| Upper Heyford | 55 | 45 | 44 | Tr | Tv | 0·0 |
| Ross-on-Wye | 57 | 42 | 34 | - | 0·3 | 0·3 |
| Hartland Point | 57 | 52 | 49 | 1 | 4 | 2·2 |
| Bristol ... | 58 | 47 | 36 | 0·1 | 0·4 | 0·1 |
| Portland Bill ... | 58 | 54 | * | - | 0·1 | * |
| Plymouth ... | 57 | 49 | 39 | 2 | Tv | 0·0 |
| The Lizard ... | 57 | 48 | * | 2 | - | 0·3 |
| Scilly (St. Mary's) | 59 | 51 | * | 0·1 | 0·1 | 0·7 |
| Pembroke ... | 58 | 45 | * | 0·2 | 2 | 1·5 |
| Holyhead (Valley) | 56 | 37 | 29 | 3 | - | * |
| Chester (Sealand) | 59 | 37 | 27 | - | 0·3 | 0·5 |
| Manchester ... | 54 | 37 | 28 | 4 | 1 | - * |
| Spurn Head ... | 56 | 39 | * | - | 0·3 | 1·4 |
| Catterick ... | 56 | 41 | 34 | Tr | 0·5 | 0·4 |
| Tynemouth ... | 54 | 43 | 39 | 0·3 | 0·3 | * |
| St. Abbs Head | 54 | 41 | * | 0·4 | - | |
| Leuchars ... | 54 | 40 | 35 | 0·2 | - | 0·9 |
| Renfrew (Abbots I.) | 54 | 41 | 32 | 4 | 1 | 0·2 |
| Eskdalemuir ... | 51 | 34 | 28 | 7 | Tv | 0·0 |
| Point of Ayre... | 55 | 48 | * | 3 | - | 0·2 |
| Tiree ... ... | 54 | 42 | * | 7 | - | |
| Stornoway ... | 52 | 41 | * | 4 | 2 | 5·3 |
| Dalwhinnie ... | 51 | 35 | 31 | 2 | 1 | 2·8 |
| Aberdeen † ... | 52 | 39 | 31 | 3 | - | 0·5 |
| Wick ... | 51 | 40 | | 1 | - | * |
| Sumburgh .. | 52 | 47 | 40 | 5 | 2 | 3·4 |
| Blacksod Point | 54 | 46 | * | 3 | 0·5 | * |
| Malin Head ... | 54 | 44 | | 4 | 0·6 | 2·6 |
| Aldergrove ... | 54 | 37 | 20 | 5 | - | 0·8 |
| Birr Castle ... | 59 | 33 | 29 | 1 | - | 2·3 |
| Valentia Obsy. | 57 | 41 | 37 | 0·5 | 0·1 | |
| Roches Point | 58 | 44 | * | 0·6 | - | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 12th October — 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 109 | 52 | 64745 | 22467 | 41 | 02862 | 24515 |
| 115 | | | | | | |
| 203 | | | | 88 | 01843 | 22414 |
| 206 | 26 | 02858 | 23465 | 5- | 02962 | 20228 |
| 210 | 53 | 61865 | 20366 | 84 | 02851 | 21385 |
| 220 | 80 | 10855 | 26415 | | | |
| 230 | 82 | 81856 | 23387 | | | |
| 245 | 52 | 62665 | 20468 | 87 | 02963 | 25167 |
| 260 | | | | 87 | 05664 | 24268 |
| 278 | 57 | 51837 | 25468 | 57 | 02841 | 26468 |
| 279 | | | | 5- | 02756 | 24166 |
| 285 | 6- | 63628 | 20568 | | | |
| 288 | 57 | 05674 | 15428 | 57 | 61655 | 16428 |
| 578 | 26 | 10844 | 30225 | 46 | 02853 | 30326 |
| 301 | 57 | 22655 | 13468 | 87 | 22446 | 30267 |
| 321 | 07 | 05690 | 20367 | 07 | 05690 | 19325 |
| 299 | 5- | 05557 | 24327 | 5- | 05547 | 22427 |
| 292 | 53 | 05554 | 16247 | 57 | 05566 | 19228 |
| 310 | | | | -- | 01636 | 20416 |
| 614 | 57 | 22564 | 18267 | 57 | 05564 | 18226 |

01h. G.M.T. 13th October — 07h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 109 | 52 | 01853 | 21413 | 87 | 01854 | 20384 |
| 115 | 87 | 25844 | 57586 | 87 | 02844 | 57586 |
| 203 | | | | 80 | 81944 | 22494 |
| 206 | | | | | | |
| 210 | 41 | 02854 | 19328 | 57 | 01951 | 19213 |
| 220 | | | | 26 | 01954 | 25204 |
| 230 | 87 | 81855 | 18418 | 33 | 01954 | 18284 |
| 245 | 57 | 01862 | 22124 | 54 | 01963 | 23215 |
| 260 | 07 | 05590 | 20214 | 57 | 01853 | 20215 |
| 278 | 50 | 01853 | 22313 | 53 | 02854 | 20547 |
| 279 | 50 | 01862 | 22202 | 54 | 05663 | 22213 |
| 285 | | | | | | |
| 288 | 04 | 05690 | 21261 | 07 | 02790 | 17216 |
| 578 | 8- | 81748 | 22288 | 40 | 01852 | 16183 |
| 301 | 00 | 00790 | 30200 | 87 | 01763 | 28214 |
| 321 | 07 | 05690 | 19325 | 07 | 05690 | 25262 |
| 299 | 40 | 01763 | 28213 | 57 | 02765 | 26316 |
| 292 | 50 | 05662 | 27112 | 07 | 02890 | 00025 |
| 310 | | | | | | |
| 614 | 50 | 08452 | 24152 | 04 | 05590 | 26114 |

13h. G.M.T. 12th October — 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 333 | 57 | 02855 | 20427 | 57 | 22855 | 20267 |
| 334 | -- | 53447 | 28488 | -- | 53547 | 26328 |
| 340 | | | | 57 | 02856 | 18328 |
| 136 | 57 | 02763 | 20328 | 57 | 05673 | 16325 |
| 336 | 57 | 22756 | 20468 | 53 | 02753 | 20316 |
| 350 | | | | 57 | 22762 | 16267 |
| 368 | 57 | 22054 | 00068 | 53 | 01764 | 20224 |
| 379 | 57 | 02836 | 20428 | 52 | 22846 | 22368 |
| 390 | 57 | 05654 | 20348 | 57 | 08462 | 20127 |
| 382 | | | | 57 | 22666 | 16128 |
| 438 | 5- | 02757 | 22227 | 52 | 02756 | 22328 |
| 430 | 52 | 02753 | 20368 | 54 | 02762 | 20223 |
| 409 | 52 | 02846 | 18457 | 57 | 01843 | 17224 |

01h. G.M.T. 13th October — 07h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 333 | 50 | 01753 | 00014 | 57 | 02852 | 30105 |
| 334 | | | | | | |
| 340 | 00 | 05590 | 00000 | 53 | 05664 | 00007 |
| 136 | 57 | 61655 | 20326 | 03 | 05690 | 26263 |
| 336 | | | | 53 | 01753 | 32314 |
| 350 | 5- | 61657 | 20228 | 5- | 05675 | 28155 |
| 368 | 52 | 22664 | 00068 | 84 | 00752 | 32114 |
| 379 | 52 | 02756 | 22328 | 54 | 02653 | 30325 |
| 390 | 5- | 43375 | 16247 | | | |
| 382 | 5- | 61764 | 00024 | 54 | 05665 | 31227 |
| 438 | 50 | 02755 | 20325 | | | |
| 430 | 57 | 22667 | 00068 | | | |
| 409 | 5- | 04725 | 21255 | 87 | 01844 | 31115 |

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 13th October.
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 * .. ... | cm₀c | cir₀cm₀ | cbcm₀ω |
| Croydon ... | cz₀c | cm₀ | cm₀id₀ |
| Greenwich ... | c⊕ | c | crrcm₀ |
| Camden Square | c | c | * |
| *Kensington ... | clocz | bcc | * |
| Hampstead ... | bc | bcp | od |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·3 Time 9h on 12th. Min. 0·1 Time 0-5h on 13th

| 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 ... ... | 56 | 51 | 45 | Tr | 1 | 1·3 | * | * |
| Croydon ... | 58 | 53 | * | - | 2 | * | * | * |
| Greenwich .. | 59 | 51 | 45 | - | 1 | 2·2 | 64 | 83 |
| Westminster .. | 58 | 50 | 47 | 0·6 | | | 77 | 87 |
| Regents Park .. | 59 | 50 | 48 | - | Tr | | 67 | 79 |
| Camden Square | 57 | 48 | 46 | - | Tr | * | * | 79 |
| Kensington ... | 59 | 51 | 43 | - | 0·7 | | 79 | 85 |
| Hampstead ... | 56 | 48 | 44 | Tr | 0·1 | | * | 90 |

Page 1 **BRITISH SECTION**

**SECRET**

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

Wednesday 14th October 1942

No. 29546

## OBSERVATIONS at 13h. G.M.T. 13th October

| 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) | Amount Low 0–10 (13) | Amount Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 23.4 | -2 | N | 1 | zo | 57 | 55 | 42 | 6 | 8 | - | 2 | 2-3 | 4-6 | 2500 |
| | Croydon | 23.3 | -4 | - | 0 | m | 57 | 75 | 49 | 4 | 2 | 7 | 2 | 4-6 | 7-8 | 3500 |
| | S. Farnborough | 23.3 | -2 | NW'N | 1 | zo | 59 | 55 | 42 | 6 | - | 7 | 6 | - | 4-6 | - |
| | Boscombe Down | 23.8 | +6 | N | 1 | c | 56 | 55 | 40 | 8 | - | - | 8 | - | 9 | - |
| | Thorney Island | 23.2 | +2 | - | 0 | c | 58 | 75 | 48 | 7 | 1 | 3 | - | 1 | 9+ | 4000 |
| | Lympne | 23.4 | +6 | WNW | 1 | c | 54 | 75 | 48 | 7 | 5 | - | - | 4-6 | 10 | 1800 |
| | Manston | 22.8 | -2 | NNW | 1 | zo | 56 | 75 | 47 | 6 | 1 | 7 | - | Tr | 9+ | 2500 |
| 2 | Shoeburyness | 22.8 | 0 | E'S | 1 | c | 58 | 65 | 46 | 6 | - | 3 | - | - | 7-8 | - |
| | Felixstowe | 22.4 | -2 | W | 2 | c | 57 | 65 | 45 | 7 | 5 | - | 8 | 1 | 9+ | 6000 |
| | Gorleston | 22.3 | +4 | NE'N | 2 | c-bc | 56 | 65 | 43 | 7 | 2 | 7 | - | 7-8 | 7-8 | 1500 |
| | Mildenhall | 22.9 | +2 | NW | 1 | c-bc | 54 | 55 | 39 | 8 | - | - | 8 | - | 7-8 | - |
| | Cranwell | 22.9 | -2 | NNW | 1 | c | 56 | 45 | 38 | 7 | - | - | 2 | - | 9+ | - |
| 3 | Birmingham | 23.5 | +2 | WSW | 2 | c | 54 | 55 | 39 | 8 | 1 | - | 8 | 1 | 9+ | 2500 |
| | Upper Heyford | 23.2 | +2 | WNW | 1 | c-bc | 55 | 55 | 39 | 7 | 1 | - | 8 | 1 | 7-8 | 3000 |
| 4 | Ross-on-Wye | 23.2 | -6 | SE | 1 | c | 56 | 65 | 44 | 7 | 1 | - | 7 | 1 | 9 | 3000 |
| 5 | Hartland Point | 23.7 | 0 | NE | 2 | bc | 55 | 85 | 49 | 8 | 5 | 6 | - | 4-6 | 4-6 | 2500 |
| | Bristol | 24.3 | -2 | S | 1 | zo | 59 | 65 | 45 | 6 | 1 | - | 6 | Tr | 7-8 | 4000 |
| | Portland Bill | 23.3 | +6 | E | 2 | c-bc | 68 | 92 | 56 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 23.9 | -4 | W | 2 | c-bc | 58 | 75 | 48 | 9 | 8 | 3 | 8 | 4-6 | 7-8 | 3000 |
| | The Lizard | 24.3 | +4 | W | 3 | bc | 60 | 75 | 50 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 24.5 | -4 | WSW | 1 | c-bc | 59 | 75 | 51 | 8 | 8 | 4 | 5 | 1 | 7-8 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 23.9 | -6 | SW'W | 2 | bc | 56 | 65 | 46 | 8 | 1 | 4 | 2 | 2-3 | 4-6 | 3000 |
| 7 | Holyhead (Valley) | 22.9 | -2 | WSW | 2 | c | 55 | 55 | 42 | 8 | 1 | - | 7 | 2-3 | 10 | 2500 |
| | Chester (Sealand) | 23.0 | 0 | W | 1 | bc | 58 | 55 | 41 | 8 | 1 | - | 5 | 4-6 | 4-6 | 2500 |
| 8 | Manchester | 23.1 | -2 | SW | 1 | c-bc | 52 | 75 | 44 | 6 | 2 | - | - | 7-8 | 7-8 | 4000 |
| 10 | Spurn Head | 21.9 | -2 | WNW | 3 | bc | 56 | 45 | 36 | 8 | 1 | - | 8 | 2-3 | 4-6 | 3000 |
| | Catterick | 22.1 | -2 | WSW | 2 | c-bc | 57 | 45 | 37 | 8 | 2 | - | 5 | 4-6 | 7-8 | 3000 |
| | Tynemouth | 21.5 | 0 | W | 3 | b-bc | 54 | 75 | 49 | 7 | 1 | 3 | - | 2-3 | 2-3 | 4000 |
| 11 | St. Abbs Head | 19.6 | +6 | WSW | 2 | bc | 54 | 55 | 48 | 7 | 2 | 4 | - | 2-3 | 4-6 | 6000 |
| | Leuchars | 19.2 | +2 | WSW | 3 | bc | 56 | 65 | 43 | 9 | 1 | 4 | 5 | 2-3 | 4-6 | 3500 |
| 12 | Renfrew (Abbots I.) | 20.0 | 0 | SW'W | 3 | c | 54 | 65 | 42 | 8 | 8 | 4 | 6 | 4-6 | 9+ | 2000 |
| | Eskdalemuir | 20.6 | -2 | SSW | 3 | c | 49 | 75 | 41 | 8 | 8 | 7 | - | 7-8 | 9 | 2200 |
| | Point of Ayre | 21.8 | 0 | W | 4 | c-bc | 55 | 75 | 48 | 8 | 2 | - | 6 | 7-8 | 7-8 | 2500 |
| 13A | Tiree | 17.5 | -4 | SW | 4 | c | 52 | 85 | 46 | 9 | 8 | - | 8 | 4-6 | 9 | 2500 |
| 13B | Stornoway | 16.4 | 0 | SSW | 4 | pr | 50 | 75 | 43 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| 15 | Dalwhinnie | 18.0 | +4 | SSW | 2 | c-bc | 49 | 65 | 38 | 8 | 8 | 4 | - | 4-6 | 7-8 | 2500 |
| | Aberdeen | 18.5 | +2 | WSW | 2 | b-bc | 54 | 55 | 38 | 8 | 1 | - | - | 2-3 | 2-3 | 3500 |
| | Wick | 17.7 | +6 | SW | 1 | c-bc | 51 | 65 | 40 | 9 | 8 | 3 | - | 7-8 | 7-8 | 3000 |
| 16 | Sumburgh | 15.6 | +14 | WSW | 5 | bc | 51 | 75 | 41 | 8 | 2 | 6 | - | 2-3 | 4-6 | 3000 |
| 17 | Blacksod Point | 18.6 | -14 | S'W | 5 | c | 54 | 75 | 46 | 8 | 8 | - | - | 10 | 10 | 2500 |
| 18 | Malin Head | 18 | -8 | S | 3 | c | 52 | 75 | 44 | 8 | 8 | - | 7 | 4-6 | 10 | 2500 |
| | Aldergrove | 21.0 | -6 | SSW | 2 | c | 52 | 75 | 43 | 9 | 2 | 4 | 7 | 1 | 10 | 2500 |
| 19 | *Birr Castle | 21.5 | -10 | S | 2 | c | 53 | 65 | 42 | 8 | 5 | 1 | 1 | 7-8 | 10 | 2500 |
| 20 | Valentia Obsy. | 21.1 | -16 | SSW | 4 | c | 55 | 75 | 47 | 8 | 7 | 1 | - | 9+ | 10 | 2500 |
| | Roches Point | 22.7 | -14 | S | 3 | c | 54 | 75 | 46 | 8 | 5 | 1 | - | 2-3 | 9 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 13th October

| 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) | 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) | 24.1 | +8 | WNW | 1 | fg | 49 | 85 | 42 | 8 | 5 | - | 6 | 4-6 | 7-8 | 4000 | 1 | * |
| Croydon | 24.2 | +2 | SE | 1 | bcf+ | 50 | 92 | 47 | 3 | - | 4 | 2 | - | 4-6 | - | 1 | * |
| S. Farnborough | 24.0 | +6 | - | 0 | c-bc | 51 | 75 | 45 | 7 | - | 7 | 8 | - | 7-8 | - | 0 | * |
| Boscombe Down | 24.0 | +6 | - | 0 | c | 52 | 65 | 42 | 8 | - | 2 | 6 | - | 9+ | - | 0 | * |
| Thorney Island | 23.5 | +2 | W | 1 | c | 53 | 85 | 50 | 7 | 5 | 4 | 8 | Tr | 9 | 4000 | 0 | * |
| Lympne | 24.2 | +6 | - | 0 | zo | 49 | 92 | 47 | 6 | 5 | - | 1 | 2-3 | 2-3 | 6000 | 1 | §1 |
| Manston | 23.7 | +4 | - | 0 | fg | 48 | 97 | 47 | 6 | - | 3 | 1 | - | 2-3 | - | 1 | * |
| Shoeburyness | 21.4 | +6 | NE | 1 | b-bc | 47 | 85 | 43 | 6 | - | 4 | - | - | 2-3 | - | 0 | * |
| Felixstowe | 23.8 | +2 | - | 0 | zo | 51 | 65 | 41 | 6 | - | 7 | 2 | - | 7-8 | - | 0 | 1 |
| Gorleston | 23.4 | +4 | - | 0 | m | 50 | 85 | 45 | 4 | - | 7 | - | - | 4-6 | - | 0 | 2 |
| Mildenhall | 23.6 | +2 | E | 2 | fg | 48 | 75 | 39 | 7 | - | 7 | 2 | - | 9+ | - | 1 | * |
| Cranwell | 23.2 | +2 | S'W | 1 | zo | 45 | 75 | 38 | 6 | - | - | 8 | - | 1 | - | 0 | * |
| Birmingham | 22.9 | -2 | SSW | 2 | m | 50 | 75 | 42 | 4 | 5 | 7 | - | 7-8 | 10 | 1500 | 1 | * |
| Upper Heyford | 23.7 | +2 | - | 0 | zo | 47 | 85 | 41 | 6 | - | - | 8 | - | 9 | - | 0 | * |
| Ross-on-Wye | 23.0 | 0 | SSW | 1 | c | 51 | 75 | 44 | 7 | 5 | 1 | - | 4-6 | 10 | 3000 | 0 | * |
| Hartland Point | 22.7 | -4 | W | 3 | c | 55 | 75 | 48 | 8 | 6 | 2 | - | 4-6 | 10 | 2500 | 0 | 3 |
| Bristol | 24.0 | 0 | SSE | 1 | c | 52 | 85 | 46 | 7 | 5 | 7 | - | 4-6 | 10 | 3700 | 1 | * |
| Portland Bill | 23.3 | +6 | SW | 2 | c | 56 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 4 |
| Plymouth | 24.0 | -2 | SW | 3 | c | 55 | 85 | 50 | 7 | 4 | 2 | - | 1 | 10 | 3000 | 0 | 2 |
| The Lizard | 23.8 | 0 | SW | 4 | c | 54 | 85 | 50 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 | 0 | 4 |
| Scilly (St. Mary's) | 23.4 | -4 | SW'S | 2 | c | 56 | 85 | 50 | 8 | 8 | 7 | - | 2-3 | 9+ | 1200 | 1 | 2 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 22.2 | -4 | SW | 3 | c | 55 | 85 | 49 | 8 | 8 | 2 | - | 4-6 | 10 | 3000 | 0 | 2 |
| Holyhead (Valley) | 21.3 | -12 | S'W | 3 | c | 51 | 65 | 41 | 8 | 1 | 2 | - | 1 | 10 | 2000 | 1 | 2 |
| Chester (Sealand) | 22.1 | -4 | S'W | 1 | zo | 48 | 85 | 43 | 6 | 5 | - | 8 | 2-3 | 4-6 | 2000 | 0 | * |
| Manchester | 22.6 | +4 | S'E | 2 | c | 47 | 75 | 39 | 6 | 4 | 3 | 6 | 1 | 9 | 4000 | 0 | * |
| Spurn Head | 22.8 | 0 | S | 3 | bc | 52 | 75 | 43 | 7 | 5 | 1 | - | 2-3 | 4-6 | 4000 | 0 | 2 |
| Catterick | 22.0 | -2 | W | 1 | c | 48 | 75 | 40 | 7 | 4 | - | 7 | Tr | 10 | 2500 | 0 | * |
| Tynemouth | 22.0 | +2 | WSW | 2 | m | 51 | 75 | 42 | 4 | 2 | 3 | - | 4-6 | 7-8 | 2900 | 1 | 2 |
| St. Abbs Head | 18.8 | -6 | S | 2 | c | 49 | 85 | 45 | 7 | 5 | 4 | - | 7-8 | 9 | 4000 | 0 | 2 |
| Leuchars | 18.4 | -6 | SW | 1 | c | 50 | 88 | 46 | 6 | 4 | 2 | - | 7-8 | 10 | 2500 | 0 | * |
| Renfrew (Abbots I.) | 18.3 | -10 | S | 1 | zo | 50 | 85 | 44 | 5 | 4 | 2 | - | 1 | 10 | 3000 | 1 | * |
| Eskdalemuir | 20.1 | -4 | SSW | 2 | c | 44 | 85 | 41 | 8 | 5 | 2 | - | 2-3 | 10 | 1400 | 1 | * |
| Point of Ayre | 20.3 | -6 | SW | 3 | c | 48 | 85 | 44 | 8 | 2 | - | 7 | Tr | 10 | 2500 | 0 | 2 |
| Tiree | 14.4 | -20 | SW'S | 5 | o | 50 | 85 | 47 | 8 | 5 | - | - | 7-8 | 10 | 1800 | 1 | 4 |
| Stornoway | 12.2 | -26 | SSE | 6 | pr | 50 | 92 | 47 | 8 | 2 | 2 | - | 7-8 | 9+ | 2000 | 1 | 3 |
| Dalwhinnie | 17.0 | -6 | SSW | 3 | o | 43 | 85 | 39 | 8 | 5 | 1 | - | 4-6 | 10 | 2500 | 1 | * |
| Aberdeen | 17.8 | -2 | SW'W | 2 | c | 50 | 75 | 41 | 7 | 4 | - | 6 | 1 | 9+ | 4000 | 1 | 2 |
| Wick | 16.6 | -8 | SW'S | 3 | c | 47 | 75 | 40 | 9 | 5 | 2 | - | 2-3 | 10 | 2500 | 0 | * |
| Sumburgh | 15.9 | -2 | WSW | 4 | c-bc | 48 | 75 | 39 | 8 | 4 | - | 6 | 1 | 7-8 | 2500 | 1 | 4 |
| Blacksod Point | 13.0 | -34 | S | 6 | rr | 52 | 97 | 51 | 7 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 5 |
| Malin Head | 15.3 | -18 | S | 3 | c | 50 | 85 | 46 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 | 1 | 3 |
| Aldergrove | 18.4 | -14 | SSE | 3 | c | 48 | 75 | 42 | 8 | - | 7 | - | - | 10 | - | 1 | * |
| *Birr Castle | 17.8 | -22 | S | 3 | c | 50 | 75 | 42 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 16.6 | -30 | S | 5 | rprο | 52 | 92 | 51 | 7 | 6 | 2 | - | 2-3 | 10 | 800 | 1 | 4 |
| Roches Point | 19.7 | -22 | SW'S | 4 | ro | 54 | 85 | 49 | 8 | 6 | 2 | - | 4-6 | 9+ | 1500 | 1 | 4 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 13th. (39) | 13h.—18h. 13th. (40) | 18h. 13th to 1h. 14th (41) | 1h.—7h. 14th (42) |
|---|---|---|---|---|
| London (Kew) | cbczoy | czobcm | bffw | ffemow |
| Croydon | cm | bcmf | bcfcfwcmw | cm. |
| S. Farnborough | czo | czobc | cbwfem | cwmm.ircm. |
| Boscombe Down | cmocy | cy | ccm. | cmoc |
| Thorney Island | cfgc | cbcc | bbcmow | bcirom,cw |
| Lympne | ofdoDc | ccmobmo | bmobm.ow | cfwmms |
| Manston | cirom,cmo | czo | cm | bccmo |
| Shoeburyness | cmocro | czocmo | cmo | cwmo |
| Felixstowe | cmoc | cbcmoycmo | bcmobmocmo | cm. |
| Gorleston | bc | bcmom | bzow | cpro zo |
| Mildenhall | bccmocy | cyc | cfgbcmo | bcoid,cmfg |
| Cranwell | cmoc | cyczo | bmo,cmo | cmororoc |
| Birmingham | c | cbcc | c | co |
| Upper Heyford | bczocy | cybczoy | cmo | cmoc |
| Ross-on-Wye | fcbcc | bcc | c | cbcc |
| Hartland Point | cbccbc | bcc | ciroc | iroroc |
| Bristol | bcfgcmzo | czobcc | ccmobc | cmoido bc |
| Portland Bill | c | c | c | o |
| Plymouth | c | c | ciroc | ciroror |
| The Lizard | bccbc | bcc | coido | dobf |
| Scilly (St. Mary's) | c | c | cido d | odfc |
| Guernsey | | | | |
| Pembroke | cbc | c | ciroq | iro cq |
| Holyhead (Valley) | bcc | c | crrid. | odo domo |
| Chester (Sealand) | cmobc | bcymo | bc, croro | croromoc |
| Manchester | cmfgmo | bcmoc | cirom | cdodomo |
| Spurn Head | bc | bc | b | omo |
| Catterick | cbcy | bcycyc | bcmocmo | cirmoc |
| Tynemouth | bcmo | bccm | cmoiro | oirocmo |
| St. Abbs Head | cbcc | bcc | bcro | qro |
| Leuchars | c | bcc | cmororomo | irorooidomo |
| Renfrew (Abbots I.) | bccbcc | ccmo | cmororo | cmororocmo |
| Eskdalemuir | bfgbbcc | c | cro | rorrom |
| Point of Ayre | bbcc | c | croro | rorocbc |
| Tiree | c | coir | cirormo | rrddm |
| Stornoway | bbccpro | cpropr | cpr | crrroro |
| Dalwhinnie | bcc | cpro | * | oprc |
| Aberdeen | cwbcy | bcyc | | |
| Wick | bc | bcc | c | crr |
| Sumburgh | bcprobc | bcproc | bc,c | c,cro |
| Blacksod Point | c | r | c | d |
| Malin Head | r | c | r | d |
| Aldergrove | cbcc | c | crrcmo | cmoc |
| *Birr Castle | c | c | * | r |
| Valentia Obsy. | c | r | r | d |
| Roches Point | c | r | r | d |

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

| Districts | Forecast |
|---|---|
| 1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands | Moderate or fresh southwesterly winds; cloudy with some bright intervals by day; local fog on South coast tonight with slight drizzle; some hill fog to-night: mild. |
| 5 S.W. England, 6 South Wales, 7 North Wales | Moderate or fresh southwesterly winds; cloudy with hill fog, local fog and drizzle near coasts tonight: mild. |
| 8 N.W. England, 9 N. Midlands | Moderate or fresh southwesterly winds, strong on coast; cloudy with rain later: mild. |
| 10 N.E. England, 11 S.E. Scotland | As 1-4 |
| 12 S.W. Scotland & Isle of Man ↓ | As 8 |
| 13A W. Scotland ↓, 13B N.W. Scotland ↓, 14 Mid Scotland ↓, 15 N.E. Scotland ↓ | Fresh southwest to south winds, strong to gale on coasts, veering southwest to west and moderating. Cloudy with local rain; more general rain and hill fog spreading from |
| 16 Orkneys and Shetlands ↓, 17 N.W. Ireland ↓, 18 N.E. Ireland ↓ | Northwest followed by broken cloud and scattered showers: mild, becoming cooler. |
| 19 S.E. Ireland, 20 S.W. Ireland ↓ | Fresh southwesterly winds, strong to gale locally on coasts. Cloudy with local drizzle and coast fog; much hill fog: mild. |

### GENERAL INFERENCE

Pressure is high to south of the British Isles. A depression near Iceland is moving north and an associated trough just off our Northwest sea-board will be over Southern Scotland and Eire at noon to-morrow. Weather will be generally cloudy with rain spreading southeast across Northern districts followed by broken cloud and showers. Local coast fog in South and West: mild.

### FURTHER OUTLOOK

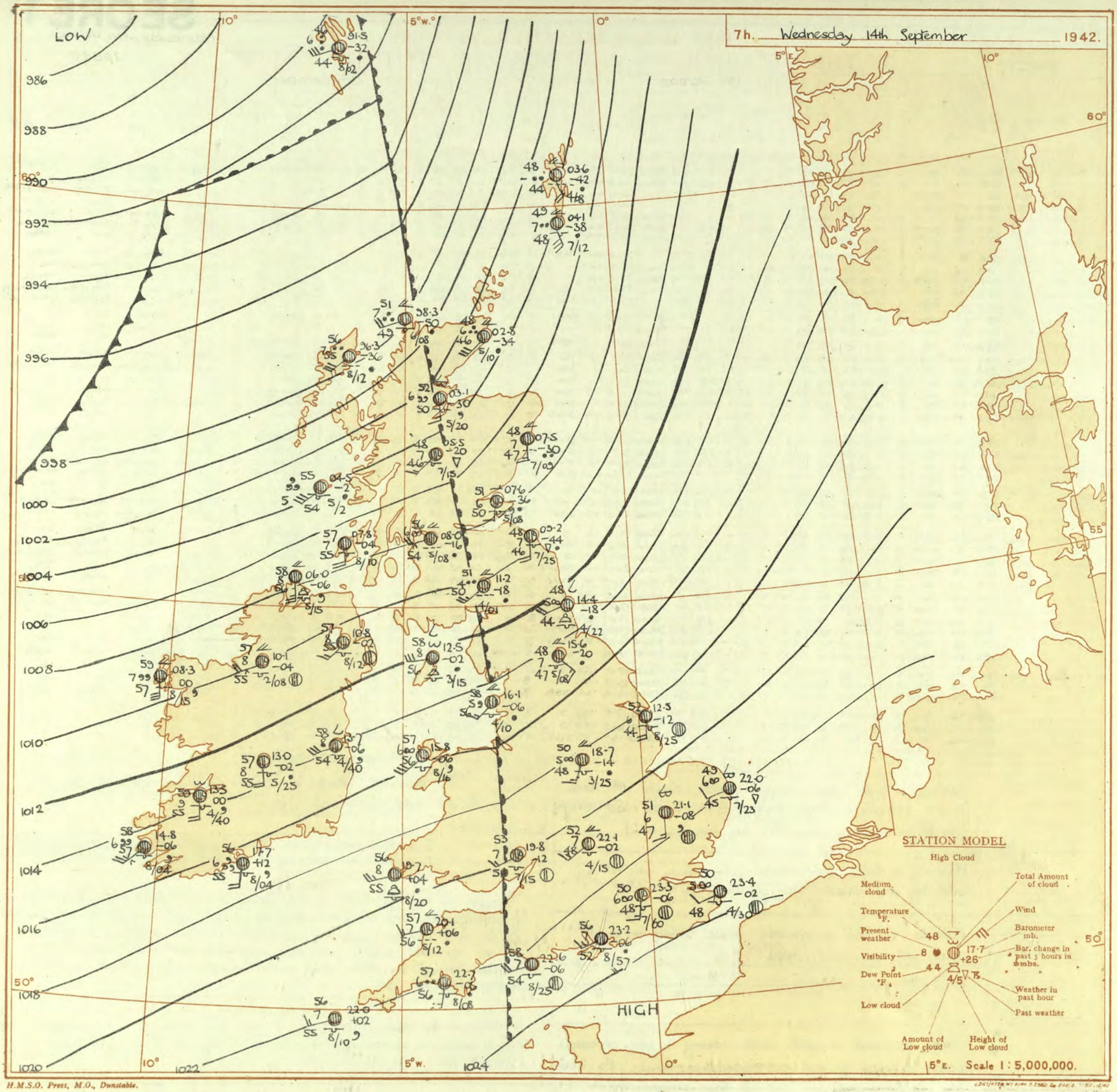
Unsettled in the North, with periods of rain; little change in the South.

↓ Gale warning in operation in districts 12, 13A, 13B, 14, 15, 16, 17, 18, 20. Issued at 1740G.M.T. 13.10.42.

Forecasts issued at

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

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




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

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

**Explanation of Frontal Lines shown on Charts**

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

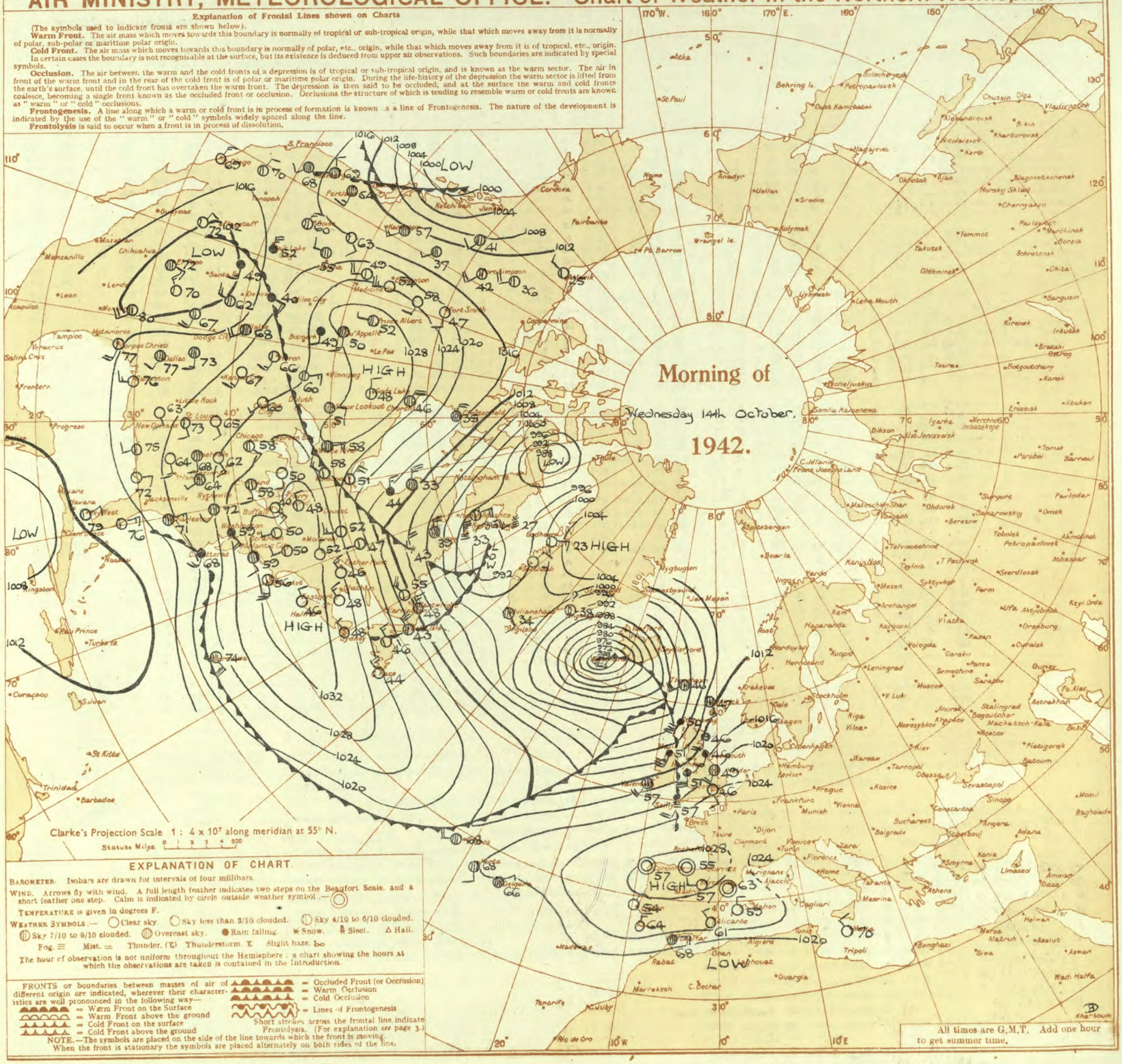
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Wednesday 14th October 1942

No. 29546.

## OBSERVATIONS at 1 hr. G.M.T. 14th October

| 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 | * | * | * | * | * | 46 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 24.5 | 0 | S'E | 2 | m | 46 | 92 | 45 | 4 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 226 | 24.2 | +6 | - | 0 | m | 44 | 92 | 42 | 4 | - | 7 | - | 0 | 9+ | - |
| | Boscombe Down | 417 | 23.9 | -2 | S | 2 | z. | 48 | 92 | 45 | 6 | 5 | 1 | - | 2-3 | 10 | 6000 |
| | Thorney Island | 10 | 24.2 | +4 | - | 0 | z. | 46 | 92 | 44 | 6 | - | - | 5 | 0 | 4-6 | - |
| | Lympne .. | 283 | 24.3 | 0 | - | 0 | m | 50 | 97 | 49 | 4 | 5 | - | - | 9 | 9 | 2400 |
| | Manston ... | 154 | 24.2 | +2 | SE'S | 1 | m | 49 | 92 | 46 | 4 | 5 | - | - | 10 | 10 | 2500 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 24.2 | 0 | - | 0 | z. | 47 | 85 | 43 | 6 | - | 1 | - | 0 | 9 | - |
| | Gorleston ... | 5 | 23.3 | 0 | WSW | 2 | z. | 46 | 85 | 40 | 6 | - | - | - | 0 | 0 | - |
| | Mildenhall ... | 15 | 23.4 | -2 | SSE | 2 | z. | 42 | 92 | 39 | 6 | - | - | 1 | 0 | 2-3 | - |
| | Cranwell ... | 203 | 22.5 | -4 | S'W | 3 | z. | 46 | 85 | 41 | 6 | 5 | - | - | 10 | 10 | 3900 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 23.4 | +2 | SW | 1 | z. | 47 | 75 | 40 | 6 | 5 | 1 | - | 7-8 | 10 | 3500 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 21.0 | -6 | SSW | 4 | c/r | 54 | 75 | 48 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 |
| | Bristol ... | 209 | 23.6 | -4 | S | 2 | z. | 51 | 85 | 47 | 6 | 5 | - | - | 10 | 10 | 5200 |
| | Portland Bill ... | 32 | 23.6 | -2 | SW | 3 | c | 55 | 85 | 51 | 8 | 5 | - | - | 9 | 9 | 4000 |
| | Plymouth ... | 82 | 21.8 | 0 | SW'S | 3 | c | 56 | 85 | 51 | 7 | 5 | - | - | 10 | 10 | 2700 |
| | The Lizard ... | 240 | 20.5 | -4 | SW'S | 5 | id. | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 21.7 | +2 | SSW | 4 | df | 57 | 97 | 57 | 3 | - | - | - | 10 | 10 | 4150 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 20.2 | -10 | SW'S | 6 | ir. | 55 | 97 | 54 | 7 | 8 | - | 1 | 10 | 10 | 2500 |
| 7 | Holyhead (Valley) | 32 | 17.9 | -20 | S | 6 | do. | 51 | 92 | 49 | 7 | 6 | 2 | - | 7-8 | 10 | 1200 |
| | Chester (Sealand) | 16 | 19.6 | -18 | SSE | 2 | r.r. | 48 | 85 | 44 | 5 | 5 | 2 | - | 4-6 | 10 | 2500 |
| 8 | Manchester ... | 235 | 20.3 | -14 | SSE | 3 | ir. | 49 | 85 | 44 | 4 | - | 2 | - | 10 | 10 | 5100 |
| 10 | Spurn Head ... | 29 | 22.6 | 0 | SSW | 4 | c | 49 | 75 | 40 | 7 | 5 | 2 | - | 2-3 | 10 | 2500 |
| | Catterick ... | 175 | 20.1 | -14 | S'W | 1 | z. | 44 | 92 | 42 | 6 | - | 1 | - | 0 | 10 | - |
| | Tynemouth ... | 108 | 19.5 | -12 | SSW | 3 | ir. | 46 | 85 | 40 | 6 | - | 2 | - | 10 | 10 | 1500 |
| 11 | St. Abbs Head | 280 | 15.9 | -18 | S | 3 | r.r. | 45 | 92 | 43 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars ... | 36 | 14.5 | -24 | S | 3 | r.r. | 48 | 97 | 47 | 6 | 5 | 2 | - | 9+ | 10 | 3800 |
| 12 | Renfrew (Abbotsl.) | 19 | 13.3 | -26 | SSE | 2 | r.r. | 48 | 85 | 44 | 5 | 5 | 2 | - | 7-8 | 10 | 2500 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre ... | 30 | 16.0 | -18 | SW | 4 | r.r. | 50 | 92 | 48 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 13A | Tiree ... ... | 22 | 06.9 | -32 | S'E | 7 | rr | 50 | 97 | 49 | 6 | 6 | 2 | - | 9+ | 10 | 4500 |
| 13B | Stornoway ... | 80 | 03.7 | -40 | SSW | 8 | rr | 50 | 75 | 48 | 7 | 5 | 2 | - | 9 | 10 | 1500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 13.7 | -22 | S'W | 4 | ir. | 46 | 92 | 44 | 7 | 5 | 2 | - | 7-8 | 10 | 3500 |
| | Wick ... | 114 | 10.5 | -34 | S'E | 5 | c | 49 | 75 | 41 | 8 | 5 | 2 | - | 7-8 | 10 | 2000 |
| 16 | Sumburgh .. | 19 | 11.9 | -26 | SSE | 4 | c | 50 | 75 | 43 | 8 | 5 | 2 | - | 1 | 10 | 4000 |
| 17 | Blacksod Point | 18 | 08.7 | -4 | SW | 6 | c | 48 | 92 | 46 | 7 | 6 | - | - | 9+ | 9+ | 1500 |
| 18 | Malin Head ... | 84 | 06.9 | -38 | S'W | 7 | id. | 51 | 92 | 49 | 6 | 8 | 2 | - | 4-6 | 10 | 1500 |
| | Aldergrove ... | 268 | 12.4 | -36 | SSE | 4 | c/r | 49 | 97 | 48 | 6 | 5 | - | - | 10 | 10 | 800 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 15.9 | +6 | SSW | 4 | c/d | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | 16.7 | -6 | W'S | 5 | bc | 55 | 97 | 54 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 14th October

| 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) | 22.8 | -8 | SW'S | 1 | z. | 51 | 86 | 48 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Croydon ... | 23.3 | -6 | S'W | 3 | z. | 50 | 92 | 47 | 6 | 5 | - | - | 9+ | 9+ | 6000 | 1 | * |
| S. Farnborough | 22.5 | -10 | SW | 3 | z. | 51 | 85 | 48 | 6 | 5 | 7 | - | 4-6 | 9+ | 5000 | 0 | * |
| Boscombe Down | 22.7 | -6 | SSW | 3 | c | 52 | 92 | 50 | 7 | 5 | 3 | 1 | 7-8 | 9 | 2000 | 0 | * |
| Thorney Island | 23.2 | -6 | SW | 3 | c | 56 | 85 | 51 | 7 | 5 | - | - | 10 | 10 | 5700 | 1 | * |
| Lympne .. | 23.8 | 0 | W | 1 | z. | 51 | 92 | 49 | 6 | 5 | 3 | 4 | 4-6 | 9+ | 5000 | 1 | § 2 |
| Manston ... | 23.4 | -2 | SW | 2 | z. | 50 | 92 | 48 | 5 | 5 | 7 | - | 4-6 | 7-8 | 3000 | 1 | * |
| Shoeburyness ... | 23.2 | -2 | SW'W | 2 | c | 52 | 85 | 48 | 6 | 5 | - | - | 9+ | 9+ | 5500 | 0 | * |
| Felixstowe ... | 23.1 | 0 | SSW | 2 | z. | 52 | 85 | 48 | 6 | 5 | 7 | - | 7-8 | 10 | 7200 | 0 | 1 |
| Gorleston ... | 22.0 | -6 | SW | 2 | z. | 49 | 85 | 45 | 6 | 5 | 7 | - | 7-8 | 10 | 2300 | 1 | 3 |
| Mildenhall ... | 21.1 | +2 | S | 3 | c/d | 51 | 85 | 46 | 6 | - | 7 | - | 0 | 10 | - | 1 | * |
| Cranwell ... | 19.2 | -14 | S'W | 4 | c | 50 | 85 | 45 | 7 | 5 | - | - | 10 | 10 | 4500 | 1 | * |
| Birmingham ... | 19.6 | -8 | SSW | 4 | o | 57 | 92 | 55 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 22.1 | -2 | SSW | 3 | c | 52 | 85 | 47 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 | 0 | * |
| Ross-on-Wye | 19.8 | -12 | SW | 3 | c | 53 | 92 | 51 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| Hartland Point | 20.1 | +6 | WSW | 3 | c | 57 | 97 | 57 | 7 | 6 | 2 | - | 7-8 | 9+ | 1200 | 1 | 4 |
| Bristol ... | 22.4 | 0 | SSW | 3 | c | 54 | 92 | 51 | 7 | 5 | - | 1 | 9 | 9+ | 2500 | 0 | * |
| Portland Bill ... | 22.6 | -6 | SW | 4 | o | 58 | 85 | 54 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Plymouth ... | 22.7 | -6 | SSW | 4 | r.r. | 57 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 3 |
| The Lizard ... | 22.3 | +4 | W | 3 | df | 56 | 97 | 56 | 3 | 5 | - | - | 10 | 10 | 600 | 1 | 4 |
| Scilly (St. Mary's) | 22.0 | +2 | SW'W | 3 | c | 56 | 97 | 56 | 7 | 5 | - | - | 10 | 10 | 1000 | 1 | 3 |
| Guernsey ... | | | | | | | | | | | | | | | | | |
| Pembroke ... | 19.7 | +4 | W'S | 5 | cq | 56 | 97 | 55 | 8 | 8 | - | - | 10 | 10 | 2000 | 1 | 4 |
| Holyhead (Valley) | 15.8 | -6 | SW'S | 6 | z. | 57 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 5 |
| Chester (Sealand) | 16.4 | -6 | S | 2 | c | 54 | 85 | 51 | 7 | 7 | 2 | - | 9 | 9+ | 3000 | 1 | * |
| Manchester ... | 17.2 | -10 | SSE | 5 | z. | 51 | 85 | 49 | 6 | 5 | 7 | - | 4-6 | 9 | 2500 | 1 | * |
| Spurn Head ... | 19.5 | -12 | S'W | 4 | o | 52 | 75 | 43 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 3 |
| Catterick ... | 15.6 | -20 | SSE | 3 | c | 48 | 97 | 47 | 7 | 5 | 2 | - | 7-8 | 10 | 800 | 0 | * |
| Tynemouth ... | 14.4 | -18 | SW | 4 | z. | 48 | 85 | 44 | 5 | 8 | 4 | - | 4-6 | 7-8 | 2200 | 1 | 2 |
| St. Abbs Head | 09.2 | -44 | S | 4 | c/pr | 48 | 92 | 46 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 4 |
| Leuchars ... | 07.6 | -36 | SSW | 2 | c/d | 51 | 97 | 50 | 6 | 5 | - | 8 | 7-8 | 9+ | 800 | 1 | * |
| Renfrew (Abbotsl.) | 08.0 | -16 | SW | 4 | z. | 56 | 92 | 54 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 2 | * |
| Eskdalemuir ... | 11.2 | -18 | SSW | 5 | r.r. | 51 | 97 | 50 | 4 | 6 | 2 | - | 4-6 | 10 | 100 | 1 | * |
| Point of Ayre ... | 12.5 | -2 | W'S | 6 | c | 58 | 92 | 56 | 8 | 8 | 7 | - | 2-3 | 10 | 1500 | 1 | 4 |
| Tiree ... ... | 03.5 | 0 | SW'W | 6 | dd | 56 | 97 | 56 | 5 | - | 2 | - | 10 | 10 | 200 | 1 | 4 |
| Stornoway ... | 96.3 | -36 | SSW | 6 | r.r. | 56 | 97 | 55 | 7 | 6 | - | - | 10 | 10 | 1200 | 2 | 4 |
| Dalwhinnie ... | 05.5 | -20 | SSW | 3 | c | 48 | 92 | 46 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Aberdeen † ... | 07.5 | -30 | S'W | 3 | c/r | 48 | 97 | 47 | 7 | 6 | 2 | - | 9+ | 10 | 900 | 1 | 3 |
| Wick ... | 02.8 | -34 | SSW | 6 | rr | 48 | 92 | 46 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | * |
| Sumburgh .. | 04.1 | -38 | S'E | 6 | r.r. | 49 | 92 | 47 | 7 | 5 | 2 | - | 9+ | 10 | 1200 | 1 | 4 |
| Blacksod Point | 08.3 | 0 | S'W | 6 | d.d. | 59 | 92 | 57 | 7 | 6 | 2 | - | 10 | 10 | 1500 | 1 | 5 |
| Malin Head ... | 06.0 | -6 | S | 5 | c | 58 | 92 | 56 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Aldergrove ... | 10.8 | -2 | SSW | 3 | c | 57 | 92 | 55 | 8 | 5 | - | - | 10 | 10 | 1200 | 1 | * |
| Birr Castle ... | 13.0 | -2 | S | 4 | c | 57 | 92 | 55 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Valentia Obsy. | 14.8 | -6 | S'W | 5 | d.d. | 58 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | 4 |
| Roches Point | 17.7 | +12 | SSW | 4 | dd | 56 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | 4 |

## PAST 24 HOURS.

| Stations | Temperature. Max. Day 7h–18h °F. (33) | Temperature. Min. Night 18h–7h °F (34) | Temperature. Min. on Grass °F. (35) | Rainfall. Day 7h–18h mm. (36) | Rainfall. Night 18h–7h mm. (37) | Sunshine 13th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 58 | 44 | 33 | - | Tr | 4.3 |
| Croydon ... | 58 | 50 | 42 | - | Tr | 1.8 |
| S. Farnborough | 60 | 43 | 35 | 0.1 | Tr | 4.2 |
| Boscombe Down | 59 | 45 | 41 | - | Tr | 3.5 |
| Thorney Island | 61 | 44 | 40 | - | Tr | * |
| Lympne .. | 56 | 46 | 36 | 0.5 | - | 0.3 |
| Manston ... | 56 | 45 | 34 | Tr | - | 0.6 |
| Shoeburyness ... | 60 | 42 | 33 | - | - | 1.6 |
| Felixstowe ... | 58 | 43 | 31 | - | - | 3.2 |
| Gorleston ... | 57 | 44 | 43 | - | Tr | 4.1 |
| Mildenhall ... | 55 | 39 | 34 | - | Tr | 6.7 |
| Cranwell ... | 56 | 40 | 32 | - | Tr | 5.2 |
| Birmingham ... | 55 | 47 | 38 | - | - | 3.4 |
| Upper Heyford | 57 | 46 | 39 | - | - | 0.0 |
| Ross-on-Wye | 58 | 50 | 43 | - | - | 4.4 |
| Hartland Point | 57 | 52 | 51 | - | 0.2 | 1.4 |
| Bristol ... | 61 | 50 | 46 | - | - | 4.4 |
| Portland Bill ... | 58 | 52 | * | - | - | * |
| Plymouth ... | 60 | 54 | 51 | - | 0.3 | 4.7 |
| The Lizard ... | 60 | 47 | * | - | 0.5 | 5.3 |
| Scilly (St. Mary's) | 60 | 53 | * | Tr | 0.1 | 4.0 |
| Guernsey ... | | | | | | |
| Pembroke ... | 57 | 51 | * | - | 1 | 3.1 |
| Holyhead (Valley) | 55 | 50 | 46 | - | 3 | * |
| Chester (Sealand) | 60 | 45 | 42 | - | 0.3 | 4.8 |
| Manchester ... | 55 | 47 | 39 | - | 9 | * |
| Spurn Head ... | 57 | 49 | * | - | - | 5.3 |
| Catterick ... | 57 | 43 | 39 | - | 0.1 | 7.8 |
| Tynemouth ... | 55 | 45 | 43 | - | 0.4 | * |
| St. Abbs Head | 55 | 44 | * | - | 0.3 | * |
| Leuchars ... | 56 | 47 | 40 | - | 1 | 6.9 |
| Renfrew (Abbotsl.) | 54 | 47 | 45 | 0.3 | 5 | 1.3 |
| Eskdalemuir ... | 52 | 42 | 39 | - | 10 | 4.6 |
| Point of Ayre ... | 56 | 46 | * | - | 0.5 | 6.7 |
| Tiree ... ... | 52 | 46 | * | 1 | 8 | 3.8 |
| Stornoway ... | 52 | 48 | * | 0.3 | 3 | 6.1 |
| Dalwhinnie ... | 50 | 42 | 39 | 0.3 | 4 | 2.9 |
| Aberdeen † ... | 55 | 46 | 42 | - | 5 | 6.6 |
| Wick ... | 49 | 39 | | - | 6 | * |
| Sumburgh .. | 51 | 47 | 40 | Tr | 3 | 7.0 |
| Blacksod Point | 54 | 51 | * | 3 | 8 | * |
| Malin Head ... | 53 | 47 | | Tr | 2 | 2.9 |
| Aldergrove ... | 53 | 45 | 44 | - | 8 | 4.2 |
| Birr Castle ... | 54 | 48 | 46 | - | 4 | 1.0 |
| Valentia Obsy. | 55 | 52 | 51 | 2 | 4 | 0.0 |
| Roches Point | 56 | 53 | * | 0.4 | 3 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 13th October ... 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 109 | 3- | 02864 | 21484 | 01 | 05590 | 00016 |
| 115 | | | | | | |
| 203 | | | | | | |
| 206 | 26 | 01964 | 24214 | 41 | 02863 | 17317 |
| 210 | 16 | 01963 | 20313 | 42 | 02963 | 10128 |
| 220 | | | | 52 | 25845 | 16488 |
| 230 | 86 | 25954 | 18186 | 82 | 02954 | 14228 |
| 245 | 20 | 01963 | 21303 | 40 | 02665 | 20217 |
| 260 | 5- | 02855 | 24315 | 17 | 02762 | 20228 |
| 278 | 14 | 02852 | 20222 | 47 | 02851 | 18328 |
| 279 | 20 | 02863 | 22326 | 47 | 02864 | 18325 |
| 285 | 23 | 02855 | 24416 | | | |
| 288 | 10 | 01863 | 25223 | 00 | 01890 | 22324 |
| 575 | 24 | 01853 | 18328 | 57 | 02854 | 16428 |
| 301 | 20 | 02844 | 24327 | 45 | 08451 | 12128 |
| 321 | 50 | 02844 | 20225 | | | |
| 299 | 50 | 01763 | 28203 | | | |
| 292 | 10 | 02854 | 23225 | 00 | 02790 | 23128 |
| 310 | -- | 01636 | 20316 | | | |
| 614 | | | | 07 | 08490 | 00017 |

01h. G.M.T. 14th October ... 07h. G.M.T.

| $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 02 | 03790 | 15428 | 62 | 66536 | 49568 |
| 52 | 62744 | 16368 | 52 | 64736 | 53468 |
| | | | 6- | 64728 | 16668 |
| 52 | 61864 | 17368 | 57 | 52855 | 16368 |
| 02 | 62768 | 12468 | 57 | 02965 | 13267 |
| | | | 5- | 63424 | 20668 |
| 02 | 64668 | 20368 | 02 | 52638 | 51458 |
| 02 | 62678 | 18368 | 52 | 21756 | 19368 |
| 52 | 02754 | 18428 | | | |
| 5- | 64648 | 15468 | 5- | 02857 | 20467 |
| 52 | 61668 | 17468 | 67 | 21635 | 51568 |
| | | | | | |
| 02 | 63668 | 16468 | 5- | 05646 | 16566 |
| 52 | 52747 | 49458 | 52 | 02837 | 53428 |
| 52 | 62443 | 15268 | 52 | 51544 | 18368 |
| 02 | 05590 | 17328 | 52 | 05664 | 16428 |
| 50 | 05545 | 22214 | 5- | 54658 | 20458 |
| 02 | 22478 | 14168 | 52 | 05665 | 15328 |
| | | | -- | 46109 | 24449 |
| 02 | 61490 | 20128 | 52 | 05553 | 18368 |

13h. G.M.T. 13th October ... 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 333 | 5- | 02864 | 12327 | 52 | 02961 | 15228 |
| 334 | | | | -- | 02664 | 02115 |
| 340 | 10 | 02852 | 28126 | 5- | 02766 | 00028 |
| 136 | 13 | 05651 | 27214 | 04 | 05690 | 16115 |
| 336 | 10 | 01764 | 16313 | 57 | 02755 | 20328 |
| 350 | 00 | 02790 | 26227 | 04 | 05690 | 16124 |
| 368 | 20 | 01753 | 00014 | 51 | 02764 | 00027 |
| 379 | 10 | 02741 | 32317 | 57 | 02764 | 00028 |
| 390 | 50 | 05671 | 32226 | 04 | 05590 | 31114 |
| 382 | 10 | 02861 | 26123 | 00 | 17690 | 00025 |
| 438 | | | | 84 | 02654 | 00015 |
| 430 | 53 | 02762 | 02125 | | | |
| 409 | 21 | 02954 | 23224 | 17 | 02751 | 22228 |

01h. G.M.T. 14th October ... 07h. G.M.T.

| $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|
| 52 | 22755 | 50468 | 52 | 51636 | 52458 |
| | | | -- | 25646 | 24387 |
| 5- | 52678 | 14258 | | | |
| 00 | 05690 | 18218 | 02 | 05690 | 18468 |
| | | | | | |
| 02 | 05690 | 15228 | 5- | 02757 | 18327 |
| 57 | 02665 | 20228 | 57 | 02846 | 18127 |
| 57 | 05653 | 20228 | 57 | 02854 | 18358 |
| 07 | 45390 | 00046 | 57 | 43364 | 16247 |
| 07 | 05590 | 00028 | 57 | 02857 | 18328 |
| 50 | 02645 | 22215 | 87 | 02854 | 20317 |
| 00 | 05590 | 00005 | 57 | 02766 | 18128 |
| 5- | 02748 | 16568 | 52 | 21717 | 20358 |

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 14th October.
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 ... ... | cbcz.y | cz.bcm | bfbwm. | Kew 24 hours ended 7h. Max. Time 0.8 23-24h on 13th Min. Time 0.1 4-7h on 14th |
| Croydon ... | cm | bcmf | bcfcfw | |
| Greenwich ... | cm. | cbcz.c | bcc | |
| Camden Square | c | bc | * | |
| Kensington ... | bcz | bcz | * | |
| Hampstead ... | o | bc | 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 % | Humidity 9h % To-day |
|---|---|---|---|---|---|---|---|---|
| Kew ... ... | 58 | 44 | 33 | - | Tr | 4.3 | * | * |
| Croydon ... | 58 | 50 | 42 | - | Tr | 1.8 | * | * |
| Greenwich ... | 58 | 44 | 33 | - | - | 1.5 | 61 | 77 |
| Westminster ... | 61 | 46 | 42 | - | | | 69 | 85 |
| Regents Park ... | 60 | 45 | 39 | - | - | | 61 | 77 |
| Camden Square | 61 | 45 | 39 | - | - | * | * | 77 |
| Kensington ... | 61 | 45 | 33 | - | Tr | | 92 | 79 |
| Hampstead ... | 61 | 46 | 38 | - | - | | * | 83 |

SECRET

Page 1 BRITISH SECTION

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

Thursday 15th October 1942

No. 29547

## OBSERVATIONS at 13h. G.M.T. 14th October

| 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) | 21·6 | -10 | SW'W | 3 | c | 61 | 85 | 55 | 8 | 5 | 3 | - | 9 | 9+ | 2500 |
| | Croydon | 22·6 | -10 | SW | 4 | c-bc/br | 64 | 75 | 57 | 1 | 4 | 4 | - | 4-6 | 7-8 | 1400 |
| | S. Farnborough | 22·4 | -4 | SW | 4 | c | 63 | 75 | 54 | 8 | 5 | - | - | 9+ | 9+ | 2400 |
| | Boscombe Down | 22·3 | -4 | SW | 4 | c | 60 | 85 | 56 | 8 | 5 | - | - | 10 | 10 | 1200 |
| | Thorney Island | 23·2 | -4 | WSW | 5 | c/d | 60 | 85 | 56 | 8 | 5 | - | - | 9+ | 9+ | 1500 |
| | Lympne | 23·8 | -6 | SW | 3 | id$_0$ | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 400 |
| | Manston | 22·6 | -10 | SW'S | 4 | c | 61 | 75 | 54 | 8 | 5 | - | - | 9+ | 9+ | 1800 |
| 2 | Shoeburyness | 22·3 | -6 | SW | 3 | c | 62 | 85 | 56 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | Felixstowe | 21·8 | -14 | SSW | 4 | z$_0$ | 61 | 85 | 54 | 6 | 5 | - | - | 10 | 10 | 1900 |
| | Gorleston | 20·5 | -10 | SW'W | 4 | z$_0$ | 59 | 65 | 51 | 6 | 5 | 3 | - | 4-6 | 9+ | 1200 |
| | Mildenhall | 20·1 | -8 | SW | 5 | c | 60 | 75 | 54 | 8 | 5 | 3 | - | 7-8 | 9 | 2000 |
| | Cranwell | 17·4 | -14 | WSW | 5 | c | 63 | 75 | 54 | 7 | 5 | 3 | - | 2-3 | 9 | 1500 |
| 3 | Birmingham | 18·5 | -4 | SW | 4 | b-bc | 64 | 65 | 49 | 8 | 5 | 4 | - | 1 | 2-3 | 2500 |
| | Upper Heyford | 20·3 | -8 | SW | 3 | c | 60 | 85 | 55 | 8 | 5 | - | - | 10 | 10 | 1800 |
| 4 | Ross-on-Wye | 19·9 | -4 | W'S | 4 | bc | 63 | 75 | 56 | 7 | 5 | - | 9 | 4-6 | 4-6 | 3000 |
| 5 | Hartland Point | 20·5 | -4 | WSW | 5 | id$_0$ | 57 | 97 | 57 | 6 | 5 | - | - | 9+ | 9+ | 1200 |
| | Bristol | 22·1 | -6 | W | 4 | c-bc | 62 | 85 | 56 | 8 | 5 | 3 | - | 7-8 | 7-8 | 2500 |
| | Portland Bill | 22·7 | -8 | WSW | 4 | o | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 23·6 | 0 | SW | 4 | id$_0$ | 58 | 92 | 56 | 6 | 5 | - | - | 7-8 | 10 | 800 |
| | The Lizard | 23·5 | 0 | WSW | 4 | c | 59 | 92 | 57 | 8 | 8 | 2 | - | 9 | 10 | 1500 |
| | Scilly (St. Mary's) | 22·7 | -4 | SW'S | 4 | cjp | 59 | 97 | 56 | 7 | 5 | - | | 10 | 10 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 19·7 | -6 | W'S | 7 | df | 58 | 97 | 58 | 3 | 5 | - | - | 10 | 10 | 2000 |
| 7 | Holyhead (Valley) | 16·4 | -2 | NW'W | 6 | id$_0$ | 57 | 97 | 57 | 4 | 5 | - | - | 10 | 10 | 100 |
| | Chester (Sealand) | 16·1 | -10 | SW'W | 2 | c | 69 | 65 | 78 | 8 | 5 | 4 | - | 4-6 | 4-6 | 2000 |
| 8 | Manchester | 17·0 | -6 | S'E | 5 | c | 61 | 85 | 56 | 8 | 5 | 7 | - | 4-6 | 9 | 4000 |
| 10 | Spurn Head | 16·8 | -16 | SW'W | 5 | bc | 61 | 75 | 53 | 7 | 7 | 7 | - | 2-3 | 4-6 | 2500 |
| | Catterick | 14·5 | -6 | SSW | 5 | pr | 61 | 75 | 55 | 6 | 9 | 6 | 1 | 4-6 | 7-8 | 3500 |
| | Tynemouth | 12·7 | -14 | WSW | 6 | bcq | 64 | 65 | 53 | 7 | 2 | 4 | - | 2-3 | 4-6 | 2600 |
| 11 | St. Abbs Head | 07·3 | +6 | SW | 5 | pr | 59 | 92 | 56 | 6 | 6 | 4 | - | 7-8 | 9 | 2500 |
| | Leuchars | 05·7 | -14 | WSW | 4 | c/r | 60 | 92 | 58 | 7 | 5 | - | - | 10 | 10 | 1000 |
| 12 | Renfrew (Abbots I.) | 07·7 | -4 | SW'W | 4 | c | 61 | 85 | 56 | 7 | 5 | 7 | - | 4-6 | 9 | 800 |
| | Eskdalemuir | 09·5 | -12 | SW | 6 | d$_0$d$_0$ | 55 | 97 | 54 | 4 | 5 | - | - | 10 | 10 | 100 |
| | Point of Ayre | 11·7 | -6 | W'S | 6 | bc | 67 | 75 | 59 | 8 | 4 | - | - | 4-6 | 4-6 | 2900 |
| 13A | Tiree | 01·2 | -14 | SW | 7 | c/d | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 13B | Stornoway | 93·6 | -10 | SSW | 8 | d$_0$d$_0$ | 56 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 500 |
| 15 | Dalwhinnie | 02·1 | -12 | SW | 5 | c | 58 | 75 | 51 | 8 | 8 | - | - | 4-6 | 4-6 | 2300 |
| | Aberdeen | 03·2 | -18 | SW | 5 | b-bc | 61 | 85 | 56 | 8 | 5 | 4 | - | 2-3 | 2-3 | 1200 |
| | Wick | 97·9 | -26 | S'W | 5 | bc | 60 | 75 | 53 | 9 | 2 | 3 | - | 2-3 | 4-6 | 3000 |
| 16 | Sumburgh | 96·2 | -42 | S'W | 5 | d$_0$d$_0$ | 53 | 92 | 51 | 6 | 6 | 2 | - | 4-6 | 10 | 700 |
| 17 | Blacksod Point | 06·3 | -14 | SSW | 8 | c | 61 | 85 | 56 | 7 | 6 | - | - | 9+ | 9+ | 1500 |
| 18 | Malin Head | 04·1 | -18 | SSW | 6 | c/r | 61 | 85 | 56 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 |
| | Aldergrove | 09·5 | -14 | SW | 4 | id$_0$ | 60 | 85 | 57 | 9 | 5 | 2 | - | 9+ | 10 | 800 |
| 19 | *Birr Castle | 12·4 | -6 | SW | 4 | c | 65 | 85 | 60 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 14·8 | -6 | SW'S | 6 | d$_0$d$_0$ | 59 | 97 | 58 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Roches Point | 17·1 | -6 | SW'W | 4 | id$_0$ | 59 | 97 | 58 | 7 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 18h. G.M.T. 14th October

| 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) | 22·1 | +8 | SW | 3 | z$_0$ | 58 | 85 | 54 | 6 | 5 | 2 | - | 9 | 10 | 2500 | 1 | * |
| Croydon | 22·4 | 0 | SW'S | 3 | c | 58 | 92 | 56 | 6 | 5 | - | - | 10 | 10 | 900 | 1 | * |
| S. Farnborough | 22·4 | +4 | S'W | 4 | z$_0$ | 58 | 92 | 55 | 6 | 5 | 2 | - | 9+ | 10 | 1200 | 0 | * |
| Boscombe Down | 22·1 | +4 | SW'S | 4 | z$_0$ | 57 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 1200 | 0 | * |
| Thorney Island | 23·1 | +2 | WSW | 3 | id$_0$ | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Lympne | 23·2 | +2 | WSW | 3 | id$_0$ | 57 | 97 | 55 | 7 | 5 | - | - | 10 | 10 | 900 | 1 | § |
| Manston | 21·8 | +2 | SW'S | 4 | c | 58 | 85 | 53 | 7 | 5 | - | - | 9+ | 9+ | 1000 | 1 | * |
| Shoeburyness | 21·6 | 0 | SW | 3 | c | 60 | 85 | 55 | 8 | 5 | - | - | 10 | 10 | 1600 | 0 | * |
| Felixstowe | 21·0 | +4 | SW'S | 3 | z$_0$ | 59 | 85 | 54 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 3 |
| Gorleston | 19·3 | 0 | SW'W | 3 | bc | 61 | 85 | 55 | 7 | - | 7 | - | - | 1 | - | 0 | |
| Mildenhall | 19·2 | 0 | S'W | 4 | c | 61 | 85 | 56 | 7 | 5 | - | - | 9+ | 9+ | 2700 | 0 | * |
| Cranwell | 16·8 | +2 | SW'S | 4 | c | 62 | 85 | 58 | 7 | 5 | 3 | - | 7-8 | 9 | 1800 | 0 | * |
| Birmingham | 18·5 | -2 | SSW | 4 | c | 57 | 92 | 56 | 8 | 6 | - | - | 10 | 10 | 1500 | 0 | * |
| Upper Heyford | 20·2 | 0 | SW'S | 4 | c | 59 | 85 | 55 | 8 | 5 | - | - | 10 | 10 | 500 | 0 | * |
| Ross-on-Wye | 19·2 | -4 | SW | 4 | c | 59 | 85 | 53 | 7 | 5 | - | - | 9 | 9 | 2000 | 0 | * |
| Hartland Point | 19·6 | -4 | WSW | 5 | c/r | 57 | 97 | 57 | 7 | 6 | 2 | - | 9+ | 10 | 600 | 1 | 4 |
| Bristol | 21·5 | +2 | SW'W | 3 | c/d | 60 | 85 | 56 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Portland Bill | 22·1 | -2 | SW | 4 | c | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| Plymouth | 23·6 | +2 | SW | 4 | id$_0$ | 57 | 97 | 57 | 5 | 5 | - | - | 9 | 10 | 300 | 1 | 3 |
| The Lizard | 22·0 | -4 | WSW | 5 | c | 57 | 97 | 57 | 7 | 8 | 2 | - | 9 | 10 | 1000 | 1 | 4 |
| Scilly (St. Mary's) | 22·2 | +8 | W | 4 | f+ | 58 | 97 | 57 | 2 | - | - | - | 10 | 10 | <150 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 18·6 | -2 | SW'W | 6 | df | 57 | 97 | 57 | 2 | - | - | - | 10 | 10 | <150 | 1 | 4 |
| Holyhead (Valley) | 13·9 | -4 | SSW | 6 | d$_0$d$_0$ | 58 | 97 | 57 | 4 | 5 | - | - | 10 | 10 | 100 | 1 | 5 |
| Chester (Sealand) | 13·1 | +8 | SW'W | 4 | c-bc | 61 | 85 | 57 | 8 | 5 | 4 | 9 | 2-3 | 7-8 | 2500 | 0 | * |
| Manchester | 15·3 | -6 | SSE | 4 | c-bc | 60 | 92 | 57 | 6 | 5 | 3 | 9 | 4-6 | 7-8 | 1000 | 3 | * |
| Spurn Head | 15·6 | 0 | SW | 4 | bc | 62 | 75 | 53 | 7 | 7 | 3 | - | 2-3 | 4-6 | 2600 | 0 | 3 |
| Catterick | 12·8 | -6 | SW | 4 | c | 61 | 85 | 57 | 7 | 5 | - | - | 9+ | 9+ | 900 | 0 | * |
| Tynemouth | 10·3 | -14 | WSW | 8 | bcq | 60 | 85 | 54 | 7 | 2 | - | - | 4-6 | 4-6 | 2300 | 1 | 3 |
| St. Abbs Head | 06·0 | -8 | SSW | 5 | b-bc | 59 | 92 | 56 | 7 | 5 | 4 | - | 2-3 | 2-3 | 2500 | 0 | 5 |
| Leuchars | 02·3 | -12 | WSW | 6 | c | 62 | 75 | 56 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 | 0 | * |
| Renfrew (Abbots I.) | 04·0 | -26 | SW'S | 6 | ir$_0$ | 62 | 85 | 57 | 8 | 5 | - | 5 | 9 | 9 | 1000 | 1 | * |
| Eskdalemuir | 07·4 | -10 | SSW | 6 | df | 55 | 97 | 54 | 2 | - | 2 | - | 10 | 10 | - | 1 | * |
| Point of Ayre | 09·9 | -10 | SW'W | 4 | c | 61 | 92 | 59 | 8 | 8 | - | - | 9+ | 9+ | 2500 | 0 | 4 |
| Tiree | 00·5 | +6 | WSW | 7 | d+ | 52 | 97 | 52 | 8 | - | 2 | - | 10 | 10 | 1200 | 1 | 6 |
| Stornoway | 94·0 | +4 | SW | 6 | dd | 50 | 97 | 50 | 6 | 5 | - | - | 10 | 10 | 500 | 1 | 4 |
| Dalwhinnie | | -12 | SW | 5 | ir | 56 | 92 | 53 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Aberdeen | 99·5 | -14 | SSW | 3 | bc | 61 | 75 | 55 | 7 | 5 | - | - | 4-6 | 4-6 | 2000 | 1 | 2 |
| Wick | 95·0 | -2 | SSW | 4 | ir$_0$ | 57 | 65 | 45 | 8 | 5 | - | - | 9+ | 9+ | 2000 | 1 | * |
| Sumburgh | 91·5 | -26 | WSW | 7 | ++ | 54 | 97 | 53 | 6 | 6 | 2 | - | 9+ | 10 | 600 | 1 | 4 |
| Blacksod Point | 07·2 | +18 | SW | 5 | c/d | 52 | 97 | 51 | 8 | 6 | - | - | 10 | 10 | 800 | 2 | 4 |
| Malin Head | 04·0 | +12 | W | 5 | d$_0$d$_0$ | 52 | 97 | 51 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 4 |
| Aldergrove | 06·9 | -16 | SW | 6 | c/d | 60 | 85 | 55 | 9 | 5 | 2 | - | 9+ | 10 | 800 | 1 | * |
| *Birr Castle | 10·1 | -14 | NNE | 4 | c | 62 | 85 | 58 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 13·3 | -4 | SW'S | 6 | id$_0$ | 58 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 5 |
| Roches Point | 15·1 | -12 | SW | 5 | c/d | 58 | 97 | 57 | 8 | 5 | - | - | 9+ | 9+ | 800 | 1 | 5 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 14th (39) | Weather 13h.—18h. 14th (40) | Weather 18h. 14th to 1h. 15th (41) | Weather 1h.—7h. 15th (42) |
|---|---|---|---|---|
| London (Kew) | wcm$_0$c | ccm$_0$ | cir$_0$cm$_0$ | kq Rir$_0$ |
| Croydon | cid$_0$bc | mpcc | cm$_0$cid$_0$ | |
| S. Farnborough | cm$_0$d$_0$c | cid$_0$m$_0$ | cid$_0$m$_0$ | cid$_0$mbq |
| Boscombe Down | cd$_0$d$_0$m$_0$c | cm$_0$ | cr$_0$id$_0$c | cid$_0$r$_0$m$_0$ |
| Thorney Island | cid$_0$c | | cid$_0$m$_0$ | cid$_0$ |
| Lympne | cm$_0$cid$_0$ | cidid$_0$ | cid$_0$c | coid$_0$m$_0$ |
| Manston | bcc | bc | cid$_0$m$_0$o | om$_0$id$_0$ |
| Shoeburyness | cm$_0$cc | c | c | cir$_0$c |
| Felixstowe | cm$_0$ | cm$_0$bcm$_0$cm$_0$ | cm$_0$c | cbcc |
| Gorleston | cz$_0$ | bc | bccz$_0$ | cz$_0$q |
| Mildenhall | cm$_0$c | cbcc | c | r$_0$r$_0$m$_0$ |
| Cranwell | c | cbcc | cbcc | bccrrc |
| Birmingham | obc | bcc | co | oRrb |
| Upper Heyford | c | c | | cid$_0$ir$_0$ |
| Ross-on-Wye | o | bcc | ccqd$_0$ | cqpbc |
| Hartland Point | cid$_0$m$_0$ | cid$_0$fdfpc | cdfdfod$_0$ | cid$_0$bc |
| Bristol | c | ccm$_0$id$_0$ | cbccd$_0$d$_0$ | cd$_0$r$_0$r$_0$ |
| Portland Bill | o | oc | co | orro |
| Plymouth | cr$_0$r$_0$m$_0$ | cid$_0$m$_0$ | cd$_0$d$_0$fm | od$_0$d$_0$cm$_0$b |
| The Lizard | c | ompre | odcid | idcbc |
| Scilly (St. Mary's) | c | coffe | ffec | cid$_0$bc |
| Guernsey | | | | |
| Pembroke | odfdf | df | cir$_0$qm$_0$ | bc |
| Holyhead (Valley) | om$_0$ | od$_0$d$_0$m | od$_0$d$_0$br$_0$ | RRbc |
| Chester (Sealand) | c | | cprcr$_0$m$_0$ | cirm$_0$b |
| Manchester | cir$_0$r$_0$c | cm$_0$ | bccir$_0$ | cr$_0$r$_0$c |
| Spurn Head | cqbcq | bc | bcq | ircq |
| Catterick | bcbcpr$_0$m$_0$ | cpr$_0$m$_0$q | cm$_0$id$_0$ | id$_0$ |
| Tynemouth | cm$_0$bcq | bcq | bcq | bccbcq |
| St. Abbs Head | cr$_0$bccpr | cpr$_0$bcb | bbcqprq | bcqprcbc |
| Leuchars | d$_0$crm$_0$c | cm$_0$cbcc | cprqed$_0$ | bbcpr$_0$ |
| Renfrew (Abbots I.) | cm$_0$c | cir$_0$ | cr$_0$r$_0$m$_0$ | cm$_0$bc |
| Eskdalemuir | cr$_0$rd$_0$ | cod$_0$f | cr$_0$rr | crpRprc |
| Point of Ayre | cbc | bcc | br$_0$r$_0$c | |
| Tiree | oid. | odr | cdcbc | bc |
| Stornoway | cdd | odd | cpr | cPHRq |
| Dalwhinnie | cpr | coirc | * | coirc |
| Aberdeen | cbcb | bbc | bcq | bcby |
| Wick | crrc | bc | cbc | cpr$_0$ |
| Sumburgh | crrd$_0$d$_0$m$_0$ | crrd$_0$d$_0$rr | crr, bc | cprph |
| Blacksod Point | d | d | bc | bc |
| Malin Head | r | r | pr | pr |
| Aldergrove | cid$_0$ | cid$_0$c | cbcb | bcpr$_0$c |
| *Birr Castle | d | c | * • | pr |
| Valentia Obsy. | d | d | r | pr |
| Roches Point | d. | d | d | |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 15th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England ↓; 3 E. Midlands; 4 W. Midlands | Fresh Westerly winds, moderating and backing; variable cloud and bright intervals by day, and mainly cloudless by night; average day temperatures. |
| 5 S.W. England; 6 South Wales ↓; 7 North Wales ↓ | Fresh Westerly winds, backing and moderating; variable cloud and bright intervals; average temperature. |
| 8 N.W. England ↓; 9 N. Midlands; 10 N.E. England ↓; 11 S.E. Scotland ↓; 12 S.W. Scotland & Isle of Man ↓ | Strong to gale Westerly winds, backing and moderating later; variable cloud, with appreciable breaks in Eastern districts tonight; scattered showers today; average temperature. |
| 13A W. Scotland ↓; 13B N.W. Scotland ↓ | Westerly gales moderating and backing slowly; broken cloud and thundery showers today; more widespread cloud and rain later; average temperature. |
| 14 Mid Scotland; 15 N.E. Scotland ↓ | Westerly gales moderating and backing slowly; variable cloud and thundery showers; average temperature. |
| 16 Orkneys and Shetlands ↓ | As 14-15. |
| 17 N.W. Ireland ↓; 18 N.E. Ireland ↓ | Strong to gale Westerly winds becoming fresh, Southerly; showers today; rain tomorrow average temperature. |
| 19 S.E. Ireland ↓; 20 S.W. Ireland ↓ | Moderate to fresh Westerly winds, backing South; variable cloud; local rain in West tomorrow; average temperature. |

### GENERAL INFERENCE

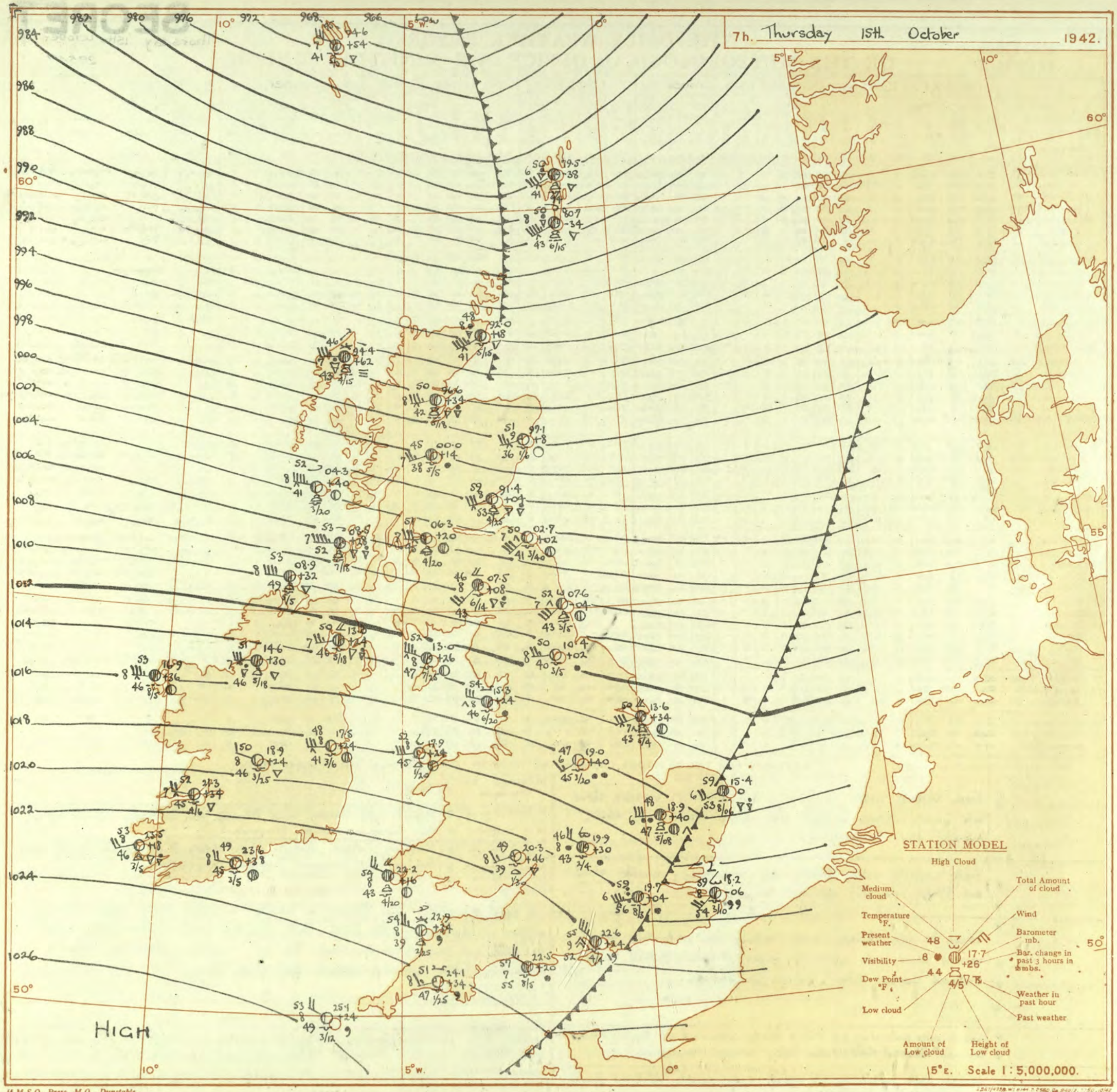
A deep depression near Faeroes is moving northeast, and a ridge of high pressure is approaching the British Isles from the West. Weather will be fair in the South and showery in the North, with rain reaching northwestern districts tomorrow. Gales over the northern half of the Country will moderate slowly.

### FURTHER OUTLOOK

Rain spreading eastwards to all districts, but amounts small in the South. Unsettled westerly type persisting. ↓ Gale warning in operation in districts 2, 6, 19, issued at 2335h 14/10; districts 7, 8, 10, 11 issued at 1930h 14/10; districts 12, 13A, 13B 15, 16, 17, 18, 20 issued at 1740h 13/10.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

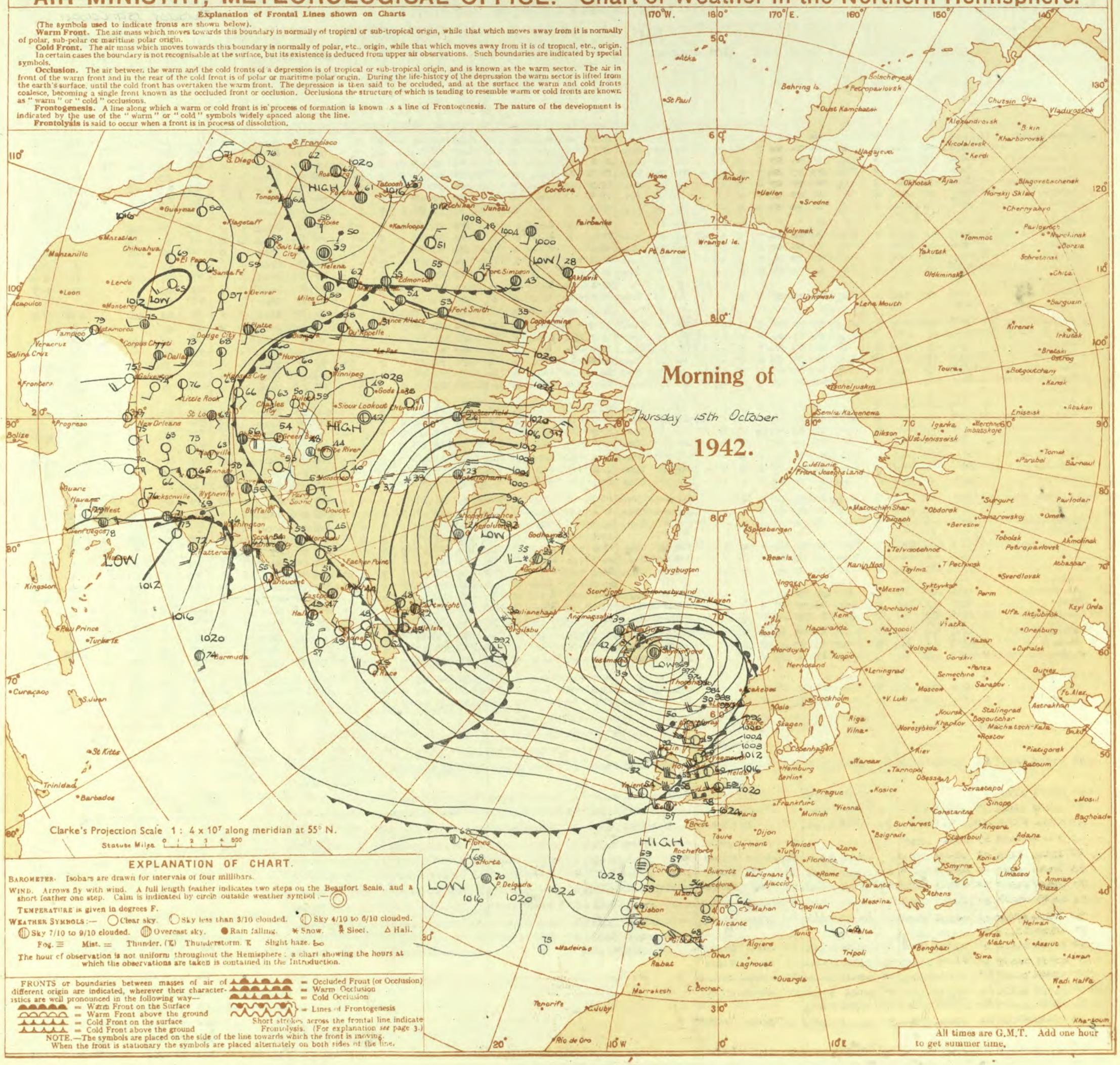
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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




## 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 one hour to get summer time.

Page 4.

# BRITISH SECTION

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

Thursday 15th October 1942

No. 29547

## OBSERVATIONS at 1 hr. G.M.T. 15th October

| 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 | 20·9 | −10 | WSW | 5 | $id_0$ | 58 | 92 | 55 | 7 | 5 | – | – | 9+ | 9+ | 1100 |
| | S. Farnborough | 226 | 20·4 | −10 | SW'W | 4 | $id_0$ | 57 | 92 | 55 | 6 | 5 | 7 | – | 9 | 10 | 900 |
| | Boscombe Down | 417 | 20·5 | −10 | SW | 5 | c/d | 57 | 97 | 56 | 7 | 5 | – | – | 9 | 9 | 500 |
| | Thorney Island | 10 | 21·6 | −14 | SW | 5 | $id_0$ | 59 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 1500 |
| | Lympne | 283 | 21·7 | −14 | WSW | 4 | c | 57 | 85 | 53 | 7 | 5 | – | – | 10 | 10 | 900 |
| | Manston | 154 | 20·1 | −16 | SW | 5 | $z_0$ | 57 | 85 | 53 | 6 | 5 | – | – | 10 | 10 | 1100 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 19·0 | −14 | SW'S | 5 | c-bc | 58 | 85 | 54 | 7 | 5 | – | – | 10 | 10 | 1000 |
| | Gorleston | 5 | 16·8 | −20 | WSW | 4 | $z_0$ | 59 | 85 | 55 | 6 | 5 | – | – | 7-8 | 7-8 | 1500 |
| | Mildenhall | 15 | 17·4 | −10 | SW'S | 5 | c | 58 | 85 | 54 | 7 | 5 | – | – | 10 | 10 | 1600 |
| | Cranwell | 203 | 13·1 | −18 | SW'S | 6 | c | 60 | 75 | 55 | 7 | 5 | – | – | 9+ | 9+ | 1400 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 19·0 | −8 | SW | 4 | $id_0$ | 56 | 92 | 55 | 7 | 5 | – | – | 10 | 10 | 900 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 17·5 | −16 | WSW | 6 | $d_0d_0$ | 57 | 97 | 57 | 5 | 6 | 2 | – | 9 | 10 | 800 |
| | Bristol | 209 | 20·3 | −4 | SSW | 3 | $d_0d_0$ | 58 | 92 | 56 | 5 | 5 | 1 | – | 9 | 10 | 1100 |
| | Portland Bill | 32 | 21·0 | −8 | SW | 5 | o | 57 | 92 | 54 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth | 82 | 22·3 | −8 | SW | 5 | $d_0d_0$ | 58 | 97 | 58 | 4 | 5 | – | – | 10 | 10 | 200 |
| | The Lizard | 240 | 21·9 | −6 | W | 6 | $id_0$ | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 800 |
| | Scilly (St. Mary's) | 163 | 21·1 | −10 | SW | 5 | c | 57 | 97 | 57 | 7 | 5 | – | – | 9+ | 9+ | 1000 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 16·2 | −10 | WSW | 7 | $r_0r_0$ | 58 | 97 | 57 | 5 | 8 | – | – | 10 | 10 | 1000 |
| 7 | Holyhead (Valley) | 32 | 12·9 | +2 | W | 6 | RR | 53 | 92 | 52 | 6 | 5 | – | – | 7-8 | 10 | 900 |
| | Chester (Sealand) | 16 | 11·9 | −20 | SW | 4 | $r_0r_0$ | 59 | 85 | 56 | 6 | – | 2 | – | 10 | 10 | 1500 |
| 8 | Manchester | 235 | 12·1 | −14 | S | 6 | $ir_0$ | 59 | 85 | 55 | 7 | 5 | – | – | 9+ | 9+ | 2900 |
| 10 | Spurn Head | 29 | 12·1 | −20 | SW | 6 | b-bcq | 60 | 85 | 54 | 7 | 5 | 1 | – | 2-3 | 2-3 | 2500 |
| | Catterick | 175 | 08·0 | −16 | SW | 5 | $id_0$ | 60 | 85 | 55 | 6 | 5 | 2 | – | 7-8 | 10 | 1500 |
| | Tynemouth | 108 | 04·9 | −20 | SW | 8 | b-bcq | 60 | 75 | 52 | 7 | 2 | – | – | 2-3 | 2-3 | 2500 |
| 11 | St. Abbs Head | 280 | 01·1 | +12 | SW | 6 | bcq | 52 | 89 | 48 | 7 | 6 | – | – | 4-6 | 4-6 | 2500 |
| | Leuchars | 36 | 01·5 | +22 | WSW | 4 | bc/d | 49 | 85 | 43 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 |
| 12 | Renfrew (Abbots I.) | 19 | 04·2 | +8 | WSW | 6 | b-bc | 49 | 75 | 42 | 6 | 5 | – | – | 2-3 | 2-3 | 2000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 08·8 | +20 | NW'W | 7 | c/r | 52 | 92 | 50 | 7 | 6 | 2 | – | 7-8 | 10 | 1500 |
| 13A | Tiree | 22 | 00·2 | −4 | WSW | 7 | b-bc | 51 | 65 | 39 | 8 | 8 | – | – | 2-3 | 2-3 | 2000 |
| 13B | Stornoway | 80 | 88·9 | −36 | SW | 8 | pr | 50 | 85 | 46 | 7 | 8 | 2 | – | 7-8 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 98·2 | +14 | W | 4 | b | 49 | 75 | 41 | 9 | 5 | – | – | 1 | 1 | 4000 |
| | Wick | 114 | 93·7 | −12 | SW | 5 | b-bc | 46 | 75 | 38 | 8 | 5 | – | – | 2-3 | 2-3 | 3000 |
| 16 | Sumburgh | 19 | 89·5 | −22 | W | 7 | bc | 51 | 75 | 42 | 7 | 8 | – | – | 4-6 | 4-6 | 2000 |
| 17 | Blacksod Point | 18 | 10·4 | +10 | W | 7 | b-bc | 52 | 75 | 45 | 8 | 5 | – | – | 2-3 | 2-3 | 4000 |
| 18 | Malin Head | 84 | 04·2 | +4 | SW | 8 | b-bc | 52 | 65 | 41 | 8 | 6 | – | – | 2-3 | 2-3 | 2500 |
| | Aldergrove | 268 | 09·3 | +18 | W | 6 | b-bc | 49 | 85 | 43 | 7 | 5 | – | – | 2-3 | 2-3 | 4500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 18·8 | +28 | W'S | 5 | bc | 54 | 65 | 43 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 |
| | Roches Point | 22 | 17·4 | +26 | W'N | 4 | c | 54 | 92 | 52 | 8 | 5 | – | – | 9 | 9 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 15th October

| 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) | 21·3 | +46 | NW'W | 5 | $ir_0$ | 53 | 85 | 48 | 6 | 5 | 2 | 1 | 7-8 | 10 | 1900 | 1 | * |
| Croydon | 19·7 | +4 | WSW | 7 | iR | 59 | 92 | 56 | 6 | 6 | – | – | 10 | 10 | 900 | 1 | * |
| S. Farnborough | 21·9 | +36 | NW | 5 | rr | 53 | 85 | 49 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| Boscombe Down | 22·3 | +30 | WNW | 6 | c-bc/r | 49 | 85 | 45 | 7 | 5 | 3 | – | 7-8 | 7-8 | 2400 | 1 | * |
| Thorney Island | 22·6 | +24 | NW | 7 | cQ | 55 | 92 | 52 | 9 | 5 | – | – | 4-6 | 10 | 1500 | 1 | * |
| Lympne | 19·8 | −2 | WSW | 4 | c/d | 57 | 92 | 55 | 8 | 5 | – | 1 | 9+ | 9+ | 800 | 1 | § |
| Manston | 18·2 | −6 | SW | 5 | c-bc/d | 59 | 85 | 54 | 8 | 5 | 5 | 6 | 2-3 | 7-8 | 1000 | 1 | * |
| Shoeburyness | 18·7 | +6 | WSW | 4 | c | 59 | 85 | 54 | 8 | 5 | 7 | – | 9 | 9 | 1500 | 0 | * |
| Felixstowe | 17·0 | −2 | SW | 5 | c | 59 | 85 | 55 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 0 | 4 |
| Gorleston | 15·4 | 0 | WSW | 4 | c/pr | 59 | 85 | 53 | 6 | 6 | – | – | 10 | 10 | 600 | 1 | 4 |
| Mildenhall | 18·9 | +40 | WNW | 6 | $r_0r_0$ | 48 | 97 | 47 | 6 | 9 | – | – | 7-8 | 9 | 800 | 1 | * |
| Cranwell | 16·6 | +54 | W'S | 4 | c/r | 47 | 85 | 43 | 8 | 5 | – | – | 9+ | 9+ | 2000 | 1 | * |
| Birmingham | 18·8 | +42 | WSW | 3 | b | 47 | 85 | 43 | 8 | 5 | – | – | 1 | 1 | 4000 | 1 | * |
| Upper Heyford | 19·9 | +30 | NW | 4 | $ir_0$ | 46 | 92 | 43 | 8 | 5 | 7 | – | 1 | 9 | 1500 | | * |
| Ross-on-Wye | 20·3 | +46 | W'S | 3 | b | 49 | 65 | 39 | 8 | 7 | – | – | Tr | Tr | 3000 | 1 | * |
| Hartland Point | 22·9 | +34 | WNW | 5 | bc | 54 | 65 | 39 | 8 | 2 | 6 | 2 | 1 | 4-6 | 2500 | 1 | 5 |
| Bristol | 22·2 | +42 | WSW | 2 | b/r | 47 | 92 | 45 | 7 | 5 | – | – | 1 | 1 | 1500 | 1 | * |
| Portland Bill | 22·5 | +20 | NW | 5 | o | 57 | 92 | 55 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | 5 |
| Plymouth | 24·5 | +34 | W | 3 | b | 51 | 85 | 47 | 8 | 5 | – | 8 | Tr | 1 | 2500 | 1 | 3 |
| The Lizard | 24·4 | +24 | NNW | 4 | bc | 51 | 92 | 48 | 8 | 8 | – | – | 4-6 | 4-6 | 1500 | 1 | 3 |
| Scilly (St. Mary's) | 25·1 | +24 | NW'W | 4 | b-bc | 53 | 85 | 49 | 8 | 5 | – | – | 2-3 | 2-3 | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 22·2 | +16 | NW | 5 | c | 54 | 65 | 43 | 8 | 8 | 2 | – | 4-6 | 10 | 2000 | 1 | 4 |
| Holyhead (Valley) | 17·9 | +24 | W | 6 | b | 52 | 75 | 44 | 8 | 1 | 4 | – | Tr | 1 | 2000 | 1 | 5 |
| Chester (Sealand) | 16·5 | +20 | W'S | 4 | b | 52 | 65 | 41 | 8 | – | 6 | – | 0 | 1 | – | 1 | * |
| Manchester | 16·5 | +28 | SW | 4 | c-bc | 50 | 75 | 43 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 | 1 | * |
| Spurn Head | 13·6 | +34 | WSW | 6 | cq | 50 | 85 | 43 | 7 | 9 | 2 | – | 7-8 | 9+ | 1500 | 1 | 5 |
| Catterick | 10·4 | +2 | W | 5 | b-bc | 50 | 65 | 40 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 0 | * |
| Tynemouth | 07·6 | −4 | WSW | 6 | bcq | 52 | 75 | 43 | 7 | 8 | 3 | – | 2-3 | 4-6 | 2500 | 1 | 4 |
| St. Abbs Head | 02·7 | +2 | SW | 6 | b-bcq | 50 | 75 | 41 | 7 | 5 | – | – | 2-3 | 2-3 | 4000 | 0 | 5 |
| Leuchars | 01·4 | +4 | WSW | 6 | bc/pr | 50 | 85 | 43 | 8 | 8 | – | – | 4-6 | 4-6 | 2500 | 1 | * |
| Renfrew (Abbots I.) | 06·3 | +20 | W | 6 | bc/d | 51 | 75 | 45 | 7 | 8 | – | – | 4-6 | 4-6 | 2000 | 2 | * |
| Eskdalemuir | 07·5 | +8 | SW | 5 | c/pr | 46 | 92 | 43 | 8 | 5 | 2 | – | 9 | 9+ | 1400 | 1 | * |
| Point of Ayre | 13·0 | +26 | WNW | 7 | c | 52 | 85 | 47 | 8 | 5 | – | – | 9+ | 9+ | 2500 | 1 | |
| Tiree | 04·3 | +40 | WNW | 9 | bc | 52 | 65 | 41 | 8 | 8 | – | 1 | 2-3 | 4-6 | 2000 | 1 | |
| Stornoway | 94·4 | +62 | W | 7 | PR | 46 | 92 | 43 | 7 | 9 | 6 | 4 | 4-6 | 10 | 1500 | 1 | 5 |
| Dalwhinnie | 00·0 | +14 | WSW | 5 | c-bc | 45 | 75 | 38 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 | 1 | * |
| Aberdeen † | 97·1 | +8 | WSW | 5 | b | 51 | 55 | 36 | 9 | 5 | – | – | Tr | Tr | 4000 | 1 | 3 |
| Wick | 92·0 | +18 | WSW | 9 | PR | 48 | 75 | 41 | 8 | 5 | – | – | 7-8 | 7-8 | 1500 | 1 | * |
| Sumburgh | 82·3 | −34 | SW'W | 9 | pr | 50 | 75 | 43 | 8 | 9 | – | 3 | 9 | 9+ | 1500 | 1 | 6 |
| Blacksod Point | 16·9 | +36 | W | 7 | c | 53 | 75 | 46 | 8 | 6 | – | – | 10 | 10 | 2500 | | 6 |
| Malin Head | 08·9 | +32 | W | 8 | c-bc | 53 | 85 | 49 | 8 | 8 | – | – | 7-8 | 7-8 | 2500 | 1 | 6 |
| Aldergrove | 13·0 | +24 | W'S | 5 | c/pr | 50 | 85 | 46 | 7 | 5 | 2 | – | 7-8 | 9+ | 1800 | 1 | * |
| Birr Castle | 18·9 | +24 | WNW | 2 | b-bc | 50 | 85 | 46 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | * |
| Valentia Obsy. | 23·5 | +18 | W | 4 | b-bc/pr | 53 | 75 | 46 | 8 | 2 | – | – | 2-3 | 2-3 | 2500 | 1 | 5 |
| Roches Point | 23·6 | +38 | W'N | 4 | b-bc | 49 | 85 | 45 | 8 | 5 | – | – | 2-3 | 2-3 | 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 14th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 61 | 53 | 51 | – | 0·6 | 1·9 |
| Croydon | 65 | 57 | | Tr | 0·1 | |
| S. Farnborough | 65 | 53 | 50 | Tr | 1 | 1·3 |
| Boscombe Down | 61 | 49 | 49 | Tr | 1 | 0·1 |
| Thorney Island | 63 | 55 | 52 | Tr | 0·5 | * |
| Lympne | 60 | 56 | 54 | Tr | 0·2 | 0·2 |
| Manston | 63 | 56 | 54 | – | Tr | 2·4 |
| Shoeburyness | 66 | 57 | 54 | – | Tr | 2·3 |
| Felixstowe | 64 | 57 | 55 | – | – | 2·3 |
| Gorleston | 62 | 52 | 40 | – | – | 0·2 |
| Mildenhall | 65 | 48 | 47 | – | 4 | 2·5 |
| Cranwell | 66 | 47 | 45 | – | 3 | 3·0 |
| Birmingham | 65 | 46 | 40 | – | 5 | 2·7 |
| Upper Heyford | 61 | | 45 | – | | * |
| Ross-on-Wye | 63 | 48 | 4 | – | 0·5 | 1·0 |
| Hartland Point | 57 | 51 | | 0·3 | 2 | |
| Bristol | 63 | 46 | 43 | Tr | 3 | 1·5 |
| Portland Bill | 59 | 54 | * | * | 1 | * |
| Plymouth | 58 | 50 | 45 | 0·1 | 2 | 0·0 |
| The Lizard | 59 | 50 | * | Tr | 1 | 0·1 |
| Scilly (St. Mary's) | 59 | 51 | * | 17 | 0·1 | 0·0 |
| Guernsey | | | | | | |
| Pembroke | 58 | 50 | * | 0·1 | 2 | 0·0 |
| Holyhead (Valley) | 58 | 51 | 46 | Tr | 3 | * |
| Chester (Sealand) | 71 | 52 | 45 | – | 3 | 4·5 |
| Manchester | 63 | 50 | 46 | Tr | 9 | * |
| Spurn Head | 65 | 47 | * | – | 1 | 4·2 |
| Catterick | 63 | 49 | 45 | Tr | 0·1 | 3·3 |
| Tynemouth | 65 | 51 | 47 | – | – | * |
| St. Abbs Head | 61 | 44 | * | Tr | 0·2 | |
| Leuchars | 63 | 48 | 43 | Tr | 0·2 | 0·7 |
| Renfrew (Abbots I.) | 63 | 49 | 44 | Tr | 10 | 3·5 |
| Eskdalemuir | 55 | 45 | 44 | 2 | 8 | 0·0 |
| Point of Ayre | 68 | 51 | * | – | 1 | 5·6 |
| Tiree | 59 | 49 | * | 1 | * | * |
| Stornoway | 57 | 46 | * | 3 | 3 | 0·0 |
| Dalwhinnie | 59 | 41 | 38 | 1 | 10 | 1·0 |
| Aberdeen † | 63 | 48 | 44 | – | – | 3·0 |
| Wick | 63 | 45 | 41 | 0·4 | 0·6 | * |
| Sumburgh | 55 | 46 | 44 | 9 | 4 | 0·0 |
| Blacksod Point | 61 | | * | 1 | | * |
| Malin Head | 62 | 49 | | 2 | 0·5 | 0·4 |
| Aldergrove | 62 | 47 | 42 | Tr | 3 | 0·3 |
| Birr Castle | 67 | 48 | 45 | 0·1 | 1 | 0·3 |
| Valentia Obsy. | 60 | 51 | 47 | 0·1 | 1 | 0·0 |
| Roches Point | 59 | 49 | * | 0·6 | 0·4 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 14th October 18h. G.M.T. — 01h. G.M.T. 15th October 07h. G.M.T.

| III | $C_L C_M$ (13h) | wwVh$N_h$ (13h) | DDFWN (13h) | $C_L C_M$ (18h) | wwVh$N_h$ (18h) | DDFWN (18h) | $C_L C_M$ (01h) | wwVh$N_h$ (01h) | DDFWN (01h) | $C_L C_M$ (07h) | wwVh$N_h$ (07h) | DDFWN (07h) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 57 | 02855 | 50567 | 52 | 22756 | 22667 | 50 | 01853 | 53663 | 3- | 82547 | 56887 |
| 115 | | | | | | | | | | | | |
| 203 | 6- | 62728 | 20768 | | | | 6- | 81836 | 20766 | | | |
| 206 | 2- | 10955 | 55568 | 5- | 51845 | 53715 | 00 | 00890 | 53560 | 9- | 25845 | 56785 |
| 210 | 83 | 01964 | 52714 | 43 | 01963 | 53513 | 50 | 01852 | 52482 | 83 | 31855 | 53686 |
| 220 | 62 | 58426 | 18658 | 57 | 25744 | 22587 | | | | 90 | 03741 | 25627 |
| 230 | 52 | 22846 | 18268 | 62 | 58637 | 57568 | 3- | 02855 | 51615 | 84 | 02856 | 53687 |
| 245 | 53 | 05635 | 19627 | 40 | 05653 | 51613 | 50 | 01962 | 55582 | 50 | 01951 | 57501 |
| 260 | 5- | 02857 | 53587 | 54 | 02854 | 53725 | 52 | 22754 | 53565 | 52 | 22854 | 53764 |
| 278 | 54 | 01833 | 18423 | 5- | 02847 | 17467 | | | | 5- | 02847 | 57517 |
| 279 | 52 | 24526 | 52658 | 62 | 05526 | 53658 | 02 | 59448 | 59558 | 5- | 05656 | 55566 |
| 285 | 5- | 62528 | 22668 | 5- | 61428 | 22668 | | | | | | |
| 288 | 53 | 01764 | 51514 | 57 | 22736 | 51568 | 5- | 05655 | 51655 | 67 | 01861 | 53483 |
| 575 | 5- | 02847 | 55527 | 5- | 52638 | 53558 | 20 | 25854 | 57684 | 2- | 81745 | 57685 |
| 301 | 57 | 02856 | 21467 | 53 | 02873 | 22446 | 02 | 63648 | 24858 | 5- | 02856 | 58668 |
| 321 | 57 | 02765 | 20326 | 34 | 02744 | 21415 | 5- | 01754 | 53444 | 5- | 05654 | 47464 |
| 299 | 50 | 05653 | 20413 | 54 | 05653 | 24314 | 50 | 01754 | 22514 | | | |
| 292 | 83 | 05655 | 53425 | 50 | 05664 | 53314 | 5- | 05655 | 53425 | 50 | 01863 | 55563 |
| 310 | | | | | | | | | | | | |
| 614 | 53 | 05543 | 18425 | 5- | 05547 | 22428 | 52 | 05546 | 55528 | 30 | 22653 | 22363 |
| 333 | 5- | 52403 | 18658 | 5- | 7508 | 53558 | 5- | 52518 | 51658 | 5- | 01763 | 25513 |
| 334 | | | | | | | | | | -- | 25646 | 24588 |
| 340 | 59 | 02956 | 51427 | 5- | 02848 | 17488 | 33 | 21757 | 20458 | 30 | 01861 | 2331 |
| 136 | 53 | 02843 | 20557 | 53 | 01753 | 20444 | 5- | 05648 | 20628 | 52 | 64643 | 57768 |
| 336 | 50 | 02754 | 20416 | 57 | 05645 | 20528 | | | | 50 | 01783 | 28514 |
| 350 | 5- | 02858 | 20458 | 5- | 05648 | 21428 | 5- | 24635 | 53528 | 52 | 54644 | 26558 |
| 368 | 5- | 21748 | 20458 | 5- | 21747 | 22358 | 50 | 01759 | 22555 | 50 | 00853 | 24463 |
| 379 | 5- | 02847 | 20427 | 5- | 51638 | 20428 | 5- | 51528 | 20558 | 50 | 21943 | 24363 |
| 390 | 57 | 05645 | 20346 | 5- | 08448 | 20428 | 5- | 05546 | 51648 | 62 | 64328 | 20628 |
| 382 | 57 | 02857 | 21358 | 6- | 51638 | 53458 | 5- | 24648 | 53458 | 5- | 62935 | 25368 |
| 438 | 5- | 57218 | 20558 | 8- | 02518 | 22528 | 52 | 02731 | 22628 | 87 | 61726 | 22686 |
| 430 | 5- | 02747 | 20327 | 5- | 51537 | 22458 | 5- | 02648 | 53558 | 5- | 54638 | 55558 |
| 409 | 52 | 02836 | 20458 | | | | 5- | 24658 | 20558 | 50 | 02734 | 26454 |

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

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

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

## LONDON OBSERVATIONS

For the 24 hours ending morning of 15th October
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 * | $ccm_0c$ | $ccm_0$ | $cir_0ir_0$ |
| Croydon | $cid_0bc$ | mpcc | $cm_0cid_0$ |
| Greenwich | c | c | cbcq rb |
| Camden Square | c | c | * |
| Kensington | c | bcc | * |
| Hampstead | bc | cor | bc |

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·1 Time 12-17hrs 14th
Min. <0·1 Time 15th 0-5hrs.

| Stations | Temperature Day Max °F | Temperature Night Min °F | Min on grass °F | Rainfall Day mm | Rainfall Night mm | Sunshine to sunset hrs Yesterday | Humidity 15h % Yesterday | Humidity 9h % To-day |
|---|---|---|---|---|---|---|---|---|
| Kew | 61 | 53 | 51 | – | 0·6 | 1·0 | * | * |
| Croydon | 65 | 57 | | Tr | 0·1 | | * | * |
| Greenwich | 66 | 51 | 48 | – | 0·5 | 1·9 | 80 | 67 |
| Westminster | 65 | 50 | 47 | · | 0·3 | * | 85 | 75 |
| Regents Park | 65 | 50 | 48 | – | 0·5 | * | 83 | 70 |
| Camden Square | 65 | 51 | 46 | – | 1·0 | * | * | 69 |
| Kensington | 65 | 49 | 44 | – | 0·2 | * | 87 | 70 |
| Hampstead | 62 | 47 | 44 | – | 0·9 | * | * | 77 |

SECRET

Page 1

BRITISH SECTION

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

Friday 16th October 1942

No. 29548

## OBSERVATIONS at 13h. G.M.T. Thursday 15th October

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Dew Point. °F. (8) | Visibility. 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 23·4 | 0 | W | 3 | bc | 59 | 55 | 40 | 7 | 1 | - | 1 | Tv | 1 | 4000 |
| | Croydon ... | 24·0 | +2 | W | 4 | bc | 60 | 55 | 44 | 8 | 1 | 4 | - | Tv | 1 | 2500 |
| | S. Farnborough | 23·8 | -2 | W'N | 4 | bc | 59 | 55 | 42 | 8 | 1 | - | - | 1 | 1 | 2000 |
| | Boscombe Down | 24·5 | +6 | W | 5 | b-bc | 58 | 55 | 44 | 8 | 1 | - | - | 2-3 | 2-3 | 4000 |
| | Thorney Island | 24·8 | +6 | WSW | 3 | b-bc | 62 | 65 | 49 | 9 | 1 | - | - | 2-3 | 2-3 | 2500 |
| | Lympne ... | 23·6 | +10 | WSW | 2 | b | 59 | 55 | 44 | 8 | - | - | - | 0 | 0 | — |
| | Manston ... | 22·2 | +2 | W'S | 3 | bc | 59 | 55 | 43 | 7 | 5 | - | - | 1 | 1 | 3100 |
| 2 | Shoeburyness ... | 22·1 | +2 | WSW | 3 | b-bc | 61 | 55 | 46 | 8 | - | 3 | - | 0 | 2-3 | - |
| | Felixstowe ... | 22·0 | -6 | W | 4 | b-bc | 59 | 55 | 43 | 8 | - | - | 3 | 0 | 2-3 | - |
| | Gorleston ... | 20·4 | +12 | WNW | 4 | bcq | 58 | 55 | 41 | 7 | 2 | 7 | - | 4-6 | 4-6 | 2700 |
| | Mildenhall ... | 20·6 | +2 | W | 5 | c-bc | 60 | 55 | 45 | 8 | 4 | - | 2 | 2-3 | 7-8 | 2500 |
| | Cranwell ... | 19·2 | +8 | W'S | 5 | c-bc | 57 | 55 | 42 | 7 | 1 | - | 6 | 1 | 7-8 | 2500 |
| 3 | Birmingham ... | 21·3 | 0 | W | 4 | bc | 57 | 65 | 45 | 8 | 1 | - | 1 | 2-3 | 4-6 | 2500 |
| | Upper Heyford | 22·0 | +4 | W | 4 | bc | 58 | 55 | 43 | 8 | 1 | - | 5 | 4-6 | 4-6 | 3000 |
| 4 | Ross-on-Wye | 22·9 | 0 | W'S | 4 | bc | 61 | 55 | 44 | 8 | 7 | - | - | 4-6 | 4-6 | 3500 |
| 5 | Hartland Point | 26·1 | +10 | WNW | 4 | bc | 56 | 75 | 47 | 8 | 1 | - | 4 | 2-3 | 4-6 | 3000 |
| | Bristol ... | 25·7 | +6 | W | 4 | bc | 58 | 65 | 48 | 8 | 1 | - | - | 4-6 | 4-6 | 4000 |
| | Portland Bill ... | 26·0 | +6 | W | 5 | c-bc | 59 | 92 | 57 | 8 | 2 | 4 | - | 4-6 | 7-8 | 4000 |
| | Plymouth ... | 27·2 | +10 | W'N | 4 | b-bc | 56 | 65 | 45 | 8 | 1 | 4 | 1 | 2-3 | 2-3 | 3000 |
| | The Lizard ... | 27·5 | +8 | NW | 4 | bc | 59 | 65 | 47 | 8 | 7 | - | - | 4-6 | 4-6 | 2500 |
| | Scilly (St. Mary's) | 28·8 | +14 | W | 4 | bc | 60 | 55 | 46 | 8 | 5 | - | 5 | 4-6 | 4-6 | 1200 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 25·3 | +10 | W'N | 7 | bcq | 56 | 85 | 50 | 8 | 1 | - | - | 4-6 | 4-6 | 3000 |
| 7 | Holyhead (Valley) | 21·5 | +14 | W'N | 7 | c | 55 | 65 | 44 | 8 | 8 | 7 | - | 4-6 | 9+ | 2500 |
| | Chester (Sealand) | 22·0 | +6 | WNW | 4 | c-bc | 57 | 55 | 43 | 8 | 8 | - | 2 | 4-6 | 7-8 | 2000 |
| 8 | Manchester ... | 19·5 | +6 | SW | 6 | c-bc | 56 | 65 | 43 | 8 | 1 | 3 | 3 | 4-6 | 7-8 | 2500 |
| 10 | Spurn Head ... | 17·0 | +14 | W'S | 7 | cq | 56 | 65 | 43 | 6 | 2 | 6 | - | 4-6 | 9+ | 1500 |
| | Catterick ... | 14·3 | -2 | W'S | 4 | c-bc | 56 | 65 | 43 | 8 | 2 | - | 9 | 4-6 | 7-8 | 2000 |
| | Tynemouth ... | 12·4 | +14 | W | 8 | $z_0$ | 57 | 65 | 44 | 5 | 2 | - | - | 0 | 4-6 | 1500 |
| 11 | St. Abbs Head | 07·1 | +2 | W | 7 | bcq | 53 | 55 | 39 | 7 | 7 | - | - | 4-6 | 4-6 | 4000 |
| | Leuchars ... | 05·9 | +18 | W | 8 | bc | 56 | 55 | 42 | 8 | 8 | 6 | - | 4-6 | 4-6 | 3000 |
| 12 | Renfrew (Abbotsinch) | 12·4 | +34 | W | 7 | pv | 51 | 75 | 45 | 7 | 7 | 2 | - | 9 | 10 | 2000 |
| | Eskdalemuir ... | 11·9 | +4 | WSW | 7 | c | 50 | 65 | 40 | 8 | 8 | 7 | 9 | 4-6 | 9 | 1800 |
| | Point of Ayre ... | 16·3 | +6 | WNW | 7 | c | 55 | 65 | 45 | 8 | 6 | 2 | - | 2-3 | 10 | 4500 |
| 13A | Tiree ... ... | 08·6 | +14 | W | 8 | c-bc | 50 | 85 | 44 | 7 | 3 | 3 | 8 | 4-6 | 7-8 | 1800 |
| 13B | Stornoway ... | 98·0 | +10 | WSW | 8 | c-bc | 51 | 75 | 45 | 7 | 3 | 7 | 9 | 4-6 | 7-8 | 2000 |
| 15 | Dalwhinnie ... | 04·5 | +16 | SW | 5 | c/pv | 46 | 76 | 38 | 7 | 5 | 1 | - | 4-6 | 10 | 2500 |
| | Aberdeen ... | 02·3 | +16 | W'S | 6 | b-bc | 57 | 45 | 37 | 9 | 7 | 4 | 3 | 1 | 2-3 | 4000 |
| | Wick ... | 97·4 | +8 | WSW | 8 | o/pv | 50 | 75 | 40 | 8 | 8 | 7 | 6 | 4-6 | 9 | 1000 |
| 16 | Sumburgh ... | 88·5 | +16 | SW'W | 8 | PR | 50 | 75 | 43 | 7 | 9 | 6 | - | 9+ | 9+ | 1200 |
| 17 | Blacksod Point | 19·8 | +14 | W | 6 | c-bc | 55 | 75 | 48 | 7 | 5 | 3 | - | 4-6 | 7-8 | 2500 |
| 18 | Malin Head ... | 12·9 | +14 | W | 7 | c-bc | 53 | 75 | 46 | 8 | 9 | - | - | 7-8 | 7-8 | 2500 |
| | Aldergrove ... | 16·9 | +14 | WSW | 5 | pv | 52 | 75 | 43 | 7 | 8 | 7 | - | 9 | 10 | 1800 |
| 19 | Birr Castle ... | 22·6 | +18 | W | 3 | c | 55 | 66 | 43 | 8 | 5 | - | - | 9 | 9 | 2500 |
| 20 | Valentia Obsy. | 26·6 | +10 | W'S | 5 | c | 56 | 75 | 48 | 5 | 5 | 5 | 3 | 9 | 9 | <150 |
| | Roches Point | 26·1 | +14 | W | 4 | bc | 57 | 75 | 50 | 8 | 1 | 4 | - | 4-6 | 4-6 | 4000 |

## OBSERVATIONS at 18h. G.M.T. Thursday 15th October

| 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) | 24·9 | +10 | WSW | 3 | $z_0$ | 55 | 65 | 43 | 6 | 5 | 9 | 1 | Tv | 4-6 | 5700 | 1 | * |
| | Croydon ... | 25·1 | +8 | SW | 2 | b-bc | 54 | 75 | 46 | 6 | 5 | 3 | - | 1 | 2-3 | 4500 | 1 | * |
| | S. Farnborough | 25·6 | +6 | W | 3 | c | 54 | 65 | 43 | 8 | 4 | 3 | 4 | 1 | 4-6 | 5000 | 0 | * |
| | Boscombe Down | 26·1 | +8 | W | 3 | b-bc | 51 | 75 | 44 | 8 | 4 | - | 4 | 1 | 2-3 | 3500 | 0 | * |
| | Thorney Island | 26·5 | +10 | WNW | 3 | $z_0$ | 55 | 85 | 50 | 6 | 5 | - | - | 1 | 1 | 4000 | 0 | * |
| | Lympne ... | 25·2 | +10 | W | 3 | bc | 52 | 85 | 46 | 8 | - | 3 | 4 | 0 | 1 | - | 1 | * |
| | Manston ... | 24·3 | +10 | SW'W | 3 | b-bc | 52 | 75 | 44 | 7 | - | 5 | 1 | 0 | 2-3 | - | 1 | § * |
| 2 | Shoeburyness ... | 21·6 | 0 | SW | 3 | c | 60 | 85 | 55 | 8 | 5 | - | - | 10 | 10 | 1600 | 0 | * |
| | Felixstowe ... | 22·7 | +6 | WSW | 3 | bc | 56 | 65 | 45 | 7 | 5 | 7 | 4 | 2-3 | 4-6 | 4000 | 0 | 3 |
| | Gorleston ... | 21·2 | +4 | WSW | 2 | bc | 55 | 65 | 45 | 7 | 1 | 7 | - | 2-3 | 4-6 | 2700 | 1 | 3 |
| | Mildenhall ... | 22·4 | +10 | W'S | 5 | bc | 53 | 75 | 44 | 8 | 5 | - | - | 1 | 1 | 4000 | 0 | * |
| | Cranwell ... | 20·1 | +4 | WSW | 4 | b-bc | 52 | 75 | 43 | 7 | 5 | 3 | - | 2-3 | 2-3 | 3000 | 0 | * |
| 3 | Birmingham ... | 22·9 | +4 | SW | 3 | bc | 52 | 75 | 44 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| | Upper Heyford | 23·9 | +14 | W'S | 3 | bc | 52 | 75 | 43 | 8 | 4 | 6 | 1 | Tv | 1 | 2500 | 0 | * |
| 4 | Ross-on-Wye | 24·7 | +8 | SW'W | 3 | bc | 52 | 75 | 44 | 8 | 1 | - | - | 1 | 1 | 3000 | 0 | * |
| 5 | Hartland Point | 26·9 | 0 | NW | 4 | c | 54 | 75 | 46 | 8 | 2 | 6 | - | 4-6 | 9 | 2500 | 0 | 4 |
| | Bristol ... | 26·2 | +4 | WSW | 3 | b-bc | 53 | 85 | 47 | 7 | 4 | 4 | 2 | 1 | 2-3 | 2500 | 1 | * |
| | Portland Bill ... | 27·2 | +6 | W | 4 | c-bc | 57 | 92 | 56 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | 5 |
| | Plymouth ... | 28·4 | +6 | W'N | 3 | b-bc | 53 | 85 | 47 | 7 | 1 | 4 | - | 2-3 | 2-3 | 2500 | 0 | 3 |
| | The Lizard ... | 28·4 | +6 | WNW | 5 | bc | 54 | 75 | 46 | 8 | 7 | 6 | - | 4-6 | 4-6 | 2500 | 0 | 4 |
| | Scilly (St. Mary's) | 27·1 | +4 | W | 4 | c-bc | 59 | 92 | 56 | 8 | 5 | - | - | 7-8 | 7-8 | 1200 | 1 | 3 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 25·7 | +8 | W'N | 7 | bcq | 55 | 85 | 51 | 8 | 2 | 4 | - | 2-3 | 4-6 | 3000 | 1 | 2 |
| 7 | Holyhead (Valley) | 22·1 | +12 | W | 5 | c | 54 | 75 | 45 | 8 | 5 | 1 | 3 | 7-8 | 10 | 4000 | 1 | 4 |
| | Chester (Sealand) | 21·6 | +6 | W'N | 3 | c | 56 | 55 | 42 | 8 | 5 | 7 | - | 7-8 | 10 | 3000 | 0 | * |
| 8 | Manchester ... | 20·6 | +2 | SW'S | 4 | b-bc | 53 | 75 | 44 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| 10 | Spurn Head ... | 18·4 | +4 | W'S | 6 | c-bcq | 54 | 65 | 42 | 6 | 2 | 3 | - | 4-6 | 7-8 | 1500 | 0 | 5 |
| | Catterick ... | 16·6 | +12 | WNW | 2 | bc | 51 | 97 | 51 | 7 | 1 | 3 | 6 | Tv | 1 | 1500 | 0 | * |
| | Tynemouth ... | 13·3 | +2 | W | 8 | bcq | 53 | 65 | 41 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 | 1 | |
| 11 | St. Abbs Head | 09·5 | +6 | W | 5 | bc | 51 | 65 | 41 | 7 | 5 | 4 | - | 4-6 | 4-6 | 3000 | 0 | |
| | Leuchars ... | 06·7 | +2 | W | 6 | $pr_0$ | 50 | 85 | 45 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 | 1 | * |
| 12 | Renfrew (Abbotsinch) | 11·1 | -4 | WSW | 5 | $v_0v_0$ | 51 | 85 | 48 | 6 | 6 | 2 | - | 4-6 | 10 | 1200 | 2 | * |
| | Eskdalemuir ... | 12·9 | +2 | SW'W | 6 | $i_0v_0$ | 47 | 85 | 43 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| | Point of Ayre ... | 17·8 | +2 | N'N | 6 | c | 53 | 85 | 47 | 8 | 6 | 3 | - | 7-8 | 9+ | 3000 | 0 | |
| 13A | Tiree ... ... | 08·1 | +14 | W'S | 8 | rv | 52 | 92 | 50 | 5 | 6 | 2 | - | 9 | 10 | 450 | | |
| 13B | Stornoway ... | 02·0 | +8 | W | 7 | $pr_0$ | 49 | 75 | 42 | 7 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | |
| 15 | Dalwhinnie ... | 06·5 | +6 | SW | 5 | rv | 45 | 85 | 42 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | |
| | Aberdeen ... | 04·5 | +18 | W | 3 | bc | 49 | 65 | 38 | 8 | 5 | - | 3 | 1 | 1 | 4000 | 0 | 3 |
| | Wick ... | 99·3 | +4 | WSW | 7 | bc/pr | 46 | 85 | 40 | 7 | 8 | 3 | - | 4-6 | 4-6 | 1500 | 1 | * |
| 16 | Sumburgh ... | 90·8 | +20 | W | 9 | $pr_0$ | 49 | 75 | 41 | 7 | 9 | - | - | 9 | 9 | 1500 | 1 | 6 |
| 17 | Blacksod Point | 19·5 | -2 | WSW | 6 | c | 54 | 85 | 50 | 7 | 6 | 2 | - | 4-6 | 10 | 1500 | 1 | 5 |
| 18 | Malin Head ... | 13·0 | -2 | WSW | 8 | $r_0v_0$ | 52 | 92 | 50 | 6 | - | 2 | - | 10 | 10 | 1500 | 1 | 6 |
| | Aldergrove ... | 17·6 | 0 | WSW | 4 | c | 52 | 75 | 43 | 8 | 5 | 2 | - | 9+ | 10 | 1500 | 1 | * |
| 19 | Birr Castle ... | 22·4 | +2 | W | 3 | c-bc | 53 | 75 | 45 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 27·0 | +6 | W'S | 4 | c/pr | 54 | 75 | 46 | 8 | 8 | - | - | 9 | 9 | 2500 | 1 | 3 |
| | Roches Point | 26·4 | +6 | W | 4 | b-bc | 54 | 75 | 46 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | 4 |

## PAST 24 HOURS.

| District | Stations | Weather. 7h.–13h. 15th (39) | Weather. 13h.–18h. 15th (40) | Weather. 18h. 15th to 1h. 16th (41) | Weather. 1h.–7h. 16th (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | $cr_0m_0by$ | $bybcz_0$ | $bcz_0bw$ | bbccw |
| | Croydon ... | b | $bybcybm_0$ | $bcz_0bm_0b$ | $bm_0cm_0$ |
| | S. Farnborough | cvbvby | bbcybc | bcbw | $bwcm_0$ |
| | Boscombe Down | cby | bcybc | bcb | bbcwbc |
| | Thorney Island | $cm_0$ | $bbcbm_0$ | $bm_0b$ | bbccw |
| | Lympne ... | dvkqb | byb | bbcbw | bwbc |
| | Manston ... | cvkqb | cbc | $bbcbm_0$ | $bm_0$ |
| 2 | Shoeburyness ... | cpvbc | c | bcb | bbc |
| | Felixstowe ... | cvvRcby | bybcybc | bcb | b, cbc |
| | Gorleston ... | v | bc | cbcq | bc |
| | Mildenhall ... | $cv_0cbc$ | cbcc | b, c, b | bbcc |
| | Cranwell ... | cbccy | bcybc | cbc | $bcci\bar{r}_0c$ |
| 3 | Birmingham ... | bbc | bcb | | bcc |
| | Upper Heyford | $civ_0bc$ | bcybc | b | bbcc |
| 4 | Ross-on-Wye | $bbq_0bc$ | bcy | bccbc | bcc |
| 5 | Hartland Point | bc | bcc | cbcq | bcq |
| | Bristol ... | bbc | bcb | $bbm_0b$ | b, cbc |
| | Portland Bill ... | c | cc | cbc | c |
| | Plymouth ... | bbc | bc | b | bbccw |
| | The Lizard ... | cbc | bc | bc | bc |
| | Scilly (St. Mary's) | bcy | bcc | cbc | bc |
| | Guernsey ... | | | | |
| 6 | Pembroke ... | bcq | cbcq | bcbq | bcq |
| 7 | Holyhead (Valley) | bcc | $cpv_0$ | bccbc | bcbc |
| | Chester (Sealand) | b-bc | bcc | bcb | cbbc |
| 8 | Manchester ... | cbc | $bcbcv_0$ | bbcv | c |
| 10 | Spurn Head ... | $cqm_0$ | $cqm_0$ | c | $cd_0$ |
| | Catterick ... | bbc | cbcqb | bc | $bci\bar{r}_0bc$ |
| | Tynemouth ... | bcq | bcq | bcq, c | cbc |
| 11 | St. Abbs Head | $bqm_0bc$ | bcq | bcbpr | cbcq |
| | Leuchars ... | bcbbcy | $pr_0bbc$ | cprb | bbcc |
| 12 | Renfrew (Abbotsinch) | $cpv_0$ | $cv_0v_0$ | $ar_0r_0cpr_0$ | $pr_0bcc$ |
| | Eskdalemuir ... | $cpr_0c$ | cpvir | cirrr | $crpr\bar{r}_0$ |
| | Point of Ayre ... | c | $pr_0bcc$ | cprc | $bbcpr_0$ |
| 13A | Tiree ... ... | cprbcpv | | $rrddcr_0c$ | $bccpr_0$ |
| 13B | Stornoway ... | cPrqir | cbc pv | cpr | cpr |
| 15 | Dalwhinnie ... | pv | coivc | | oirc |
| | Aberdeen ... | bbc | byb | bbw | bw |
| | Wick ... | $cpr_0cprc$ | cprbcpr | $bcpr\bar{b}c$ | $bcr_0bc$ |
| 16 | Sumburgh ... | cpv | cpv | $bcpr_0bc$ | $bcpr_0c$ |
| 17 | Blacksod Point | c | c | bc | pr |
| 18 | Malin Head ... | pv | r | r | d |
| | Aldergrove ... | cpv | cprc | $crrr_0r_0c$ | bcc |
| 19 | Birr Castle ... | c | c | | c |
| 20 | Valentia Obsy. | bc | pr | bc | bc |
| | Roches Point | bc | bc | b | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 16th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England<br>2 E. England ...<br>3 E. Midlands ...<br>4 W. Midlands<br>5 S.W. England<br>6 South Wales<br>7 North Wales | Moderate Westerly winds, fresh at first on West Coast, decreasing; fair but with considerable cloud at times; some brighter periods especially in the South; average temperatures. |
| 8 N.W. England<br>9 N. Midlands ...<br>10 N.E. England<br>11 S.E. Scotland<br>12 S.W. Scotland & Isle of Man<br>13A W. Scotland ...<br>13B N.W. Scotland<br>14 Mid Scotland | Fresh Westerly winds, strong locally on the West Coasts at first; mainly cloudy; some light local rain or showers chiefly in the West and North; average temperature. |
| 15 N.E. Scotland | Fresh Northwest winds, decreasing and backing West; showers and |
| 16 Orkneys and Shetlands | brighter intervals; probably some rain tomorrow; cool. |
| 17 N. W. Ireland<br>18 N. E. Ireland | As 8-14. |
| 19 S. E. Ireland<br>20 S. W. Ireland | As 1-7. |

### GENERAL INFERENCE

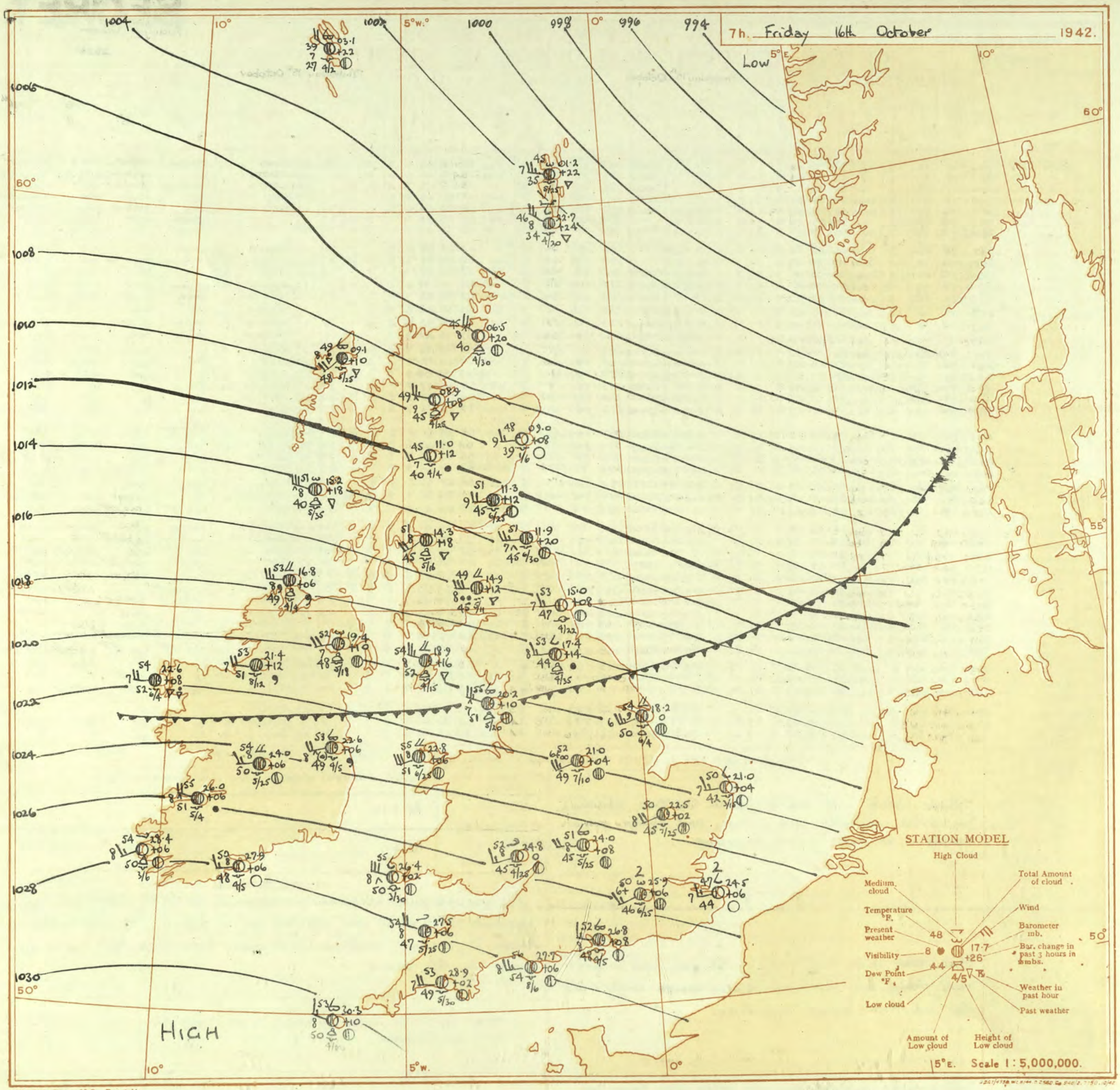
A large anticyclone is centred to southwest of the British Isles and is likely to be maintained. There will be some light local rain in parts of North and Northest Britain but otherwise conditions will be mainly fair. Temperatures will be about average for the season.

### FURTHER OUTLOOK

Mainly dry in the South; probability of rain and strong winds in the North and 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




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

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

**Explanation of Frontal Lines shown on Charts**

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

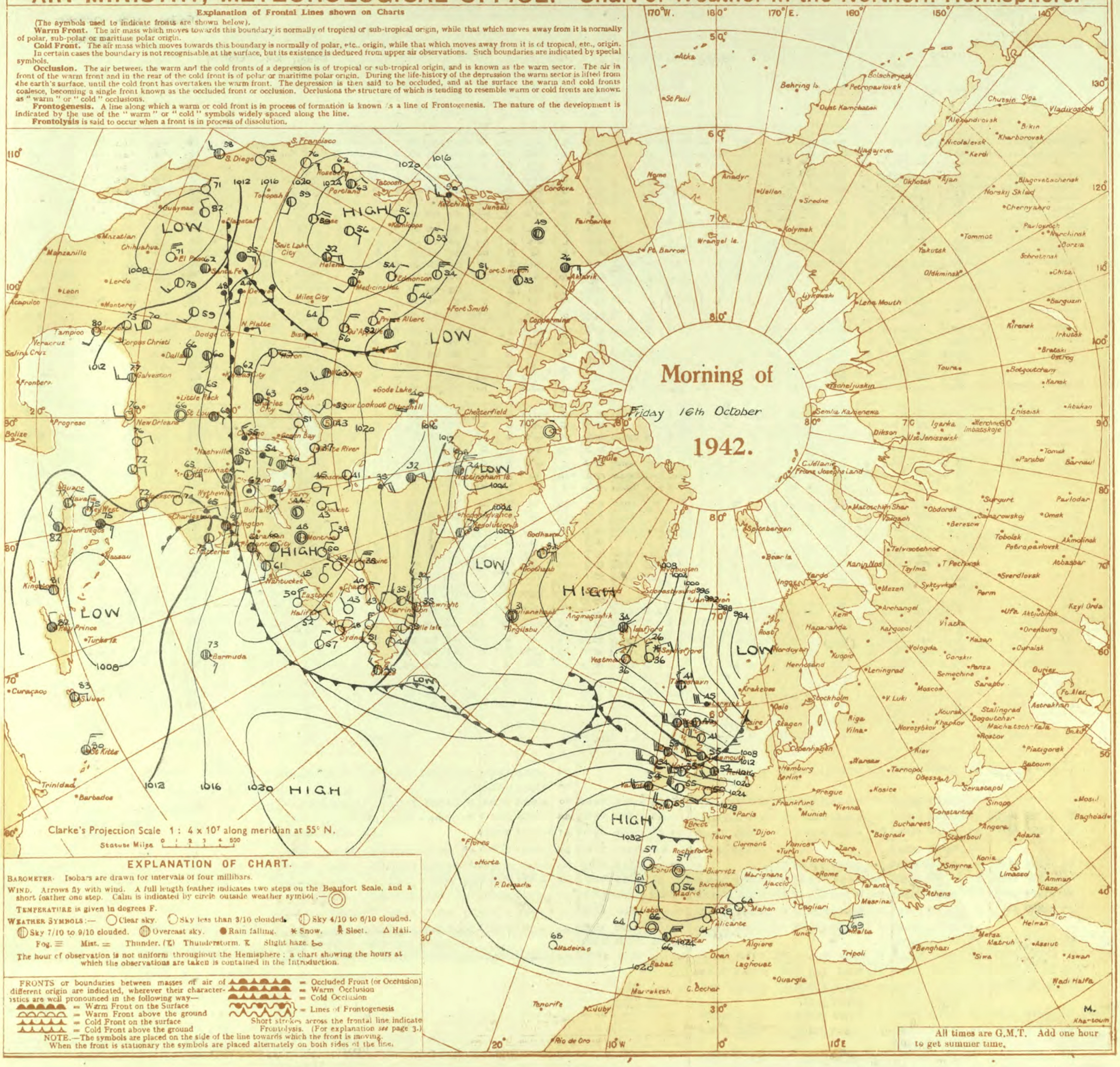
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Friday 16th October 1942

No. 25548.

## OBSERVATIONS at 1 hr. G.M.T. Friday 16th October

| 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) | Cloud. Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 49 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 25·6 | -2 | SW'W | 4 | b | 50 | 85 | 46 | 7 | – | – | – | 0 | 0 | – |
| | S. Farnborough | 226 | 25·7 | -2 | WSW | 3 | b | 48 | 85 | 43 | 8 | – | – | – | 0 | 0 | – |
| | Boscombe Down | 417 | 25·9 | -4 | WSW | 2 | b | 47 | 92 | 45 | 7 | – | – | – | 0 | 0 | – |
| | Thorney Island | 10 | 26·5 | 0 | W'S | 4 | b | 51 | 85 | 47 | 7 | – | – | – | 0 | 0 | – |
| | Lympne ... | 283 | 26·0 | +2 | W'S | 3 | b | 46 | 92 | 43 | 8 | – | – | – | 0 | 0 | – |
| | Manston ... | 154 | 24·7 | -2 | WSW | 4 | 2o | 47 | 85 | 43 | 6 | – | – | – | 0 | 0 | – |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 23·1 | -2 | WSW | 4 | b | 51 | 85 | 46 | 7 | – | – | – | 0 | 0 | – |
| | Gorleston ... | 5 | 21·1 | -2 | W | 5 | bcq | 51 | 75 | 42 | 7 | 5 | – | – | 4-6 | 4-6 | 1500 |
| | Mildenhall ... | 15 | 22·4 | -2 | SW | 4 | b | 48 | 85 | 44 | 8 | 5 | – | – | Tr | Tr | 4000 |
| | Cranwell ... | 203 | 20·2 | -4 | SW'W | 4 | bc | 49 | 85 | 45 | 7 | 5 | – | – | 4-6 | 4-6 | 4000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 23·3 | -2 | WSW | 3 | b | 48 | 85 | 44 | 7 | – | – | – | 0 | 0 | – |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 27·0 | 0 | WNW | 5 | b-bcq | 54 | 75 | 47 | 8 | 2 | – | – | 2-3 | 2-3 | 4000 |
| | Bristol ... | 209 | 26·1 | +2 | W'S | 3 | b | 50 | 85 | 47 | 7 | – | – | – | 0 | 0 | – |
| | Portland Bill ... | 32 | 27·5 | -2 | W | 5 | bc | 56 | 92 | 54 | 8 | 5 | – | – | 4-6 | 4-6 | 4000 |
| | Plymouth ... | 82 | 28·9 | 0 | W'N | 4 | b | 51 | 85 | 47 | 7 | 5 | – | – | 1 | 1 | 3000 |
| | The Lizard ... | 240 | 29·0 | -6 | WNW | 5 | bc | 53 | 75 | 46 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 163 | 29·7 | -2 | W'N | 4 | bc | 53 | 85 | 47 | 8 | 5 | – | – | 4-6 | 4-6 | 1500 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 26·0 | -2 | W'N | 7 | b-bc | 55 | 85 | 49 | 8 | 1 | – | – | 2-3 | 2-3 | 4000 |
| 7 | Holyhead (Valley) | 32 | 22·2 | -12 | WSW | 6 | bc | 53 | 85 | 44 | 8 | – | 3 | 3 | 0 | 4-6 | – |
| | Chester (Sealand) | 16 | 20·6 | -2 | WSW | 3 | c-bc | 55 | 65 | 45 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 |
| 8 | Manchester ... | 235 | 19·8 | -6 | SSW | 4 | c | 51 | 75 | 44 | 7 | 5 | – | – | 9 | 9 | 2100 |
| 10 | Spurn Head ... | 29 | 18·9 | 0 | SW | 4 | c | 52 | 75 | 43 | 7 | 7 | 2 | – | 7-8 | 10 | 1500 |
| | Catterick ... | 175 | 15·8 | +2 | W | 4 | bc | 53 | 75 | 46 | 7 | 5 | 3 | – | 4-6 | 4-6 | 2500 |
| | Tynemouth ... | 108 | 13·6 | +6 | W | 5 | c-bc | 55 | 75 | 47 | 7 | 5 | – | – | 7-8 | 7-8 | 2600 |
| 11 | St. Abbs Head | 280 | 09·1 | +22 | W | 5 | c/pr | 52 | 85 | 46 | 7 | 5 | – | – | 9 | 9 | 2500 |
| | Leuchars ... | 36 | 08·0 | +12 | W | 3 | b | 49 | 85 | 45 | 9 | 4 | – | – | 1 | 1 | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 11·4 | +8 | W'S | 5 | bc/pr | 52 | 85 | 48 | 6 | 8 | – | – | 4-6 | 4-6 | 2000 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 17·4 | +2 | W'N | 7 | c | 53 | 92 | 51 | 8 | 9 | 2 | – | 7-8 | 10 | 1500 |
| 13A | Tiree ... ... | 22 | 12·3 | +16 | WNW | 4 | c-bc | 52 | 85 | 48 | 8 | 8 | 3 | – | 4-6 | 7-8 | 2500 |
| 13B | Stornoway ... | 80 | 06·4 | +12 | W | 6 | c/pr | 47 | 92 | 45 | 7 | 5 | 7 | – | 4-6 | 9+ | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 06·8 | +14 | W'N | 4 | b | 41 | 75 | 31 | 9 | 5 | – | – | Tr | Tr | 4000 |
| | Wick ... | 114 | 03·5 | +24 | WSW | 6 | bc | 45 | 85 | 40 | 8 | 5 | – | – | 4-6 | 4-6 | 1500 |
| 16 | Sumburgh .. | 19 | 98·2 | +34 | W | 8 | b-bc | 49 | 75 | 40 | 7 | 2 | – | – | 2-3 | 2-3 | 1500 |
| 17 | Blacksod Point | 18 | 21·3 | +8 | WSW | 7 | bc | 54 | 92 | 52 | 7 | 6 | – | – | 4-6 | 4-6 | 2500 |
| 18 | Malin Head ... | 84 | 15·0 | +14 | W | 6 | c | 53 | 85 | 49 | 8 | 8 | – | – | 9 | 9 | 1500 |
| | Aldergrove ... | 268 | 17·4 | 0 | WSW | 5 | bc/r | 52 | 92 | 50 | 8 | 8 | – | – | 4-6 | 4-6 | 2300 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 27·9 | +2 | WSW | 4 | c | 54 | 85 | 50 | 8 | 5 | – | – | 9+ | 9+ | 4000 |
| | Roches Point | 22 | 27·4 | 0 | W'S | 3 | b | 51 | 85 | 47 | 8 | 5 | – | – | 1 | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. Friday 16th October

| 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) | Cloud. Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea. 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 25·7 | +6 | WSW | 2 | c | 49 | 85 | 45 | 7 | 5 | – | 6 | 7-8 | 9 | 2500 | 1 | * |
| | Croydon ... | 25·9 | +6 | WSW | 3 | c | 50 | 85 | 46 | 6 | 5 | 3 | 6 | 9 | 9+ | 2500 | 1 | * |
| | S. Farnborough | 26·7 | +14 | W'S | 3 | c | 48 | 85 | 44 | 8 | 5 | 3 | – | 9+ | 10 | 2500 | 0 | * |
| | Boscombe Down | 26·5 | +6 | WSW | 3 | c-bc | 50 | 85 | 46 | 7 | 5 | – | 6 | 4-6 | 7-8 | 2000 | 0 | * |
| | Thorney Island | 26·8 | +8 | W'N | 4 | c | 52 | 85 | 48 | 8 | 5 | 7 | – | 4-6 | 9 | 2500 | 1 | * |
| | Lympne ... | 26·1 | +6 | W'N | 2 | bc | 45 | 92 | 43 | 7 | – | – | 2 | 0 | 4-6 | – | 1 | §4 |
| | Manston ... | 24·5 | +6 | W'S | 3 | b-bc | 47 | 85 | 44 | 7 | – | 4 | 6 | 0 | 2-3 | – | 1 | * |
| 2 | Shoeburyness ... | 24·4 | +4 | WSW | 4 | bc | 50 | 85 | 45 | 7 | 4 | 4 | 6 | 0 | 4-6 | – | 0 | * |
| | Felixstowe ... | 23·4 | +4 | W's | 4 | bc | 49 | 85 | 46 | 7 | – | 4 | 1 | 0 | 4-6 | – | 0 | 3 |
| | Gorleston ... | 21·0 | +4 | W | 3 | bc | 50 | 75 | 42 | 7 | 5 | 4 | – | 2-3 | 4-6 | 1500 | 0 | 3 |
| | Mildenhall ... | 22·5 | +2 | WSW | 4 | c | 50 | 85 | 45 | 8 | 5 | – | – | 9+ | 9+ | 2500 | 0 | * |
| | Cranwell ... | 20·4 | +10 | WSW | 4 | c/r | 52 | 85 | 47 | 7 | 5 | – | – | 9+ | 9+ | 1800 | 1 | * |
| 3 | Birmingham ... | 23·5 | +6 | SW | 4 | c | 52 | 85 | 47 | 8 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| | Upper Heyford | 24·0 | +8 | W | 4 | c | 51 | 75 | 45 | 8 | 5 | 7 | – | 7-8 | 9+ | 2500 | 0 | * |
| 4 | Ross-on-Wye | 24·8 | 0 | W'S | 3 | c-bc | 52 | 75 | 45 | 8 | 5 | – | 2 | 4-6 | 7-8 | 2500 | 0 | * |
| 5 | Hartland Point | 27·9 | +6 | WNW | 4 | c | 54 | 75 | 47 | 8 | 5 | – | 1 | 7-8 | 9 | 2500 | 0 | 5 |
| | Bristol ... | 26·9 | +10 | W | 3 | c-bc | 51 | 85 | 46 | 7 | 5 | – | 9 | Tr | 7-8 | 2500 | 1 | * |
| | Portland Bill ... | 27·7 | +6 | W | 5 | c | 56 | 92 | 54 | 8 | 5 | – | – | 10 | 10 | 4000 | 1 | 5 |
| | Plymouth ... | 28·9 | +2 | W | 4 | c-bc | 53 | 85 | 49 | 7 | 5 | – | – | 7-8 | 7-8 | 3000 | 0 | 3 |
| | The Lizard ... | 29·5 | +8 | WNW | 5 | bc | 54 | 85 | 49 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 | 0 | 4 |
| | Scilly (St. Mary's) | 30·3 | +10 | WNW | 3 | bc | 53 | 85 | 50 | 8 | 8 | 7 | – | 4-6 | 4-6 | 1200 | 0 | |
| 6 | Pembroke ... | 26·4 | +2 | WNW | 6 | bcq | 55 | 85 | 50 | 8 | 4 | 4 | – | 2-3 | 4-6 | 3000 | 1 | 4 |
| 7 | Holyhead (Valley) | 22·8 | +6 | WSW | 6 | c | 55 | 85 | 51 | 8 | 5 | 2 | – | 9 | 10 | 2500 | 0 | |
| | Chester (Sealand) | 21·5 | +4 | W'S | 4 | id | 54 | 85 | 51 | 8 | 5 | 2 | – | 7-8 | 10 | 2300 | 1 | * |
| 8 | Manchester ... | 20·9 | +10 | SW | 4 | c | 53 | 85 | 49 | 7 | 5 | – | – | 10 | 10 | 1500 | 0 | * |
| 10 | Spurn Head ... | 18·2 | 0 | W'S | 5 | d | 54 | 85 | 48 | 6 | 7 | 2 | – | 9 | 10 | 1500 | 0 | 4 |
| | Catterick ... | 17·4 | +14 | W | 3 | c-bc | 53 | 75 | 44 | 8 | 8 | 4 | – | 4-6 | 7-8 | 3500 | 0 | * |
| | Tynemouth ... | 15·0 | +8 | W | 3 | bc | 53 | 85 | 47 | 7 | 2 | – | – | 4-6 | 4-6 | 2200 | 1 | 2 |
| 11 | St. Abbs Head | 11·9 | +20 | W | 5 | cq | 51 | 75 | 45 | 7 | 5 | – | – | 9 | 9 | 3000 | 0 | 4 |
| | Leuchars ... | 11·3 | +12 | W | 4 | c | 51 | 75 | 45 | 9 | 5 | – | – | 9 | 9 | 2500 | 1 | * |
| 12 | Renfrew (Abbots I.) | 14·3 | +18 | WSW | 4 | c-bc | 51 | 75 | 45 | 8 | 8 | – | – | 7-8 | 7-8 | 1600 | 2 | * |
| | Eskdalemuir ... | 14·9 | +12 | W | 6 | r/o | 49 | 85 | 45 | 8 | 6 | 2 | – | 7-8 | 10 | 1100 | 1 | * |
| | Point of Ayre... | 18·9 | +16 | WNW | 5 | c | 54 | 92 | 52 | 8 | 8 | 2 | – | 4-6 | 9+ | 1500 | 1 | |
| 13A | Tiree ... ... | 15·2 | +18 | WNW | 6 | c-bc/pr | 51 | 65 | 41 | 8 | 8 | 3 | – | 7-8 | 7-8 | 3500 | 1 | |
| 13B | Stornoway ... | 09·1 | +10 | SW | 4 | pr | 49 | 97 | 48 | 8 | 5 | 7 | – | 7-8 | 9+ | 2500 | 1 | 2 |
| 15 | Dalwhinnie ... | 11·0 | +12 | WSW | 3 | bc | 45 | 85 | 40 | 7 | 5 | – | – | 4-6 | 4-6 | 1500 | 1 | * |
| | Aberdeen † ... | 09·0 | +8 | W | 3 | b | 48 | 75 | 39 | 9 | 5 | – | – | Tr | Tr | 4000 | 0 | 2 |
| | Wick ... | 06·5 | +20 | NW'W | 5 | bc | 45 | 85 | 40 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 | 1 | * |
| 16 | Sumburgh .. | 02·7 | +24 | NW'W | 5 | bc | 46 | 65 | 34 | 8 | 5 | 4 | – | 4-6 | 4-6 | 2000 | 1 | 5 |
| 17 | Blacksod Point | 22·6 | +8 | W | 4 | c/pr | 54 | 92 | 52 | 7 | 6 | – | – | 9 | 9 | 1500 | | 4 |
| 18 | Malin Head ... | 16·8 | +6 | W'N | 5 | d | 53 | 85 | 47 | 8 | 8 | 2 | – | 4-6 | 10 | 1900 | 2 | 5 |
| | Aldergrove ... | 19·4 | +10 | W'S | 4 | c | 52 | 85 | 48 | 7 | 8 | 3 | – | 7-8 | 9+ | 1800 | 1 | * |
| 19 | Birr Castle ... | 24·0 | +6 | W | 3 | c | 54 | 85 | 50 | 8 | 5 | 2 | – | 7-8 | 10 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 28·4 | +6 | WSW | 3 | b-bc | 54 | 85 | 50 | 8 | 8 | – | 1 | 2-3 | 2-3 | 4000 | 1 | 3 |
| | Roches Point | 27·9 | +6 | W | 3 | bc | 50 | 92 | 48 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 | 1 | 4 |

## PAST 24 HOURS.

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

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 15th October | | | | 18h. G.M.T. | | | 01h. G.M.T. 16th October | | | 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 9- | 10755 | 55985 | 87 | 25644 | 56885 | 30 | 02654 | 24584 | 36 | 10754 | 24485 |
| 115 | | | | | | | | | | | |
| 203 | | | -- | 22142 | 22745 | 31 | 01844 | 24548 | 8- | 82847 | 24527 |
| 206 83 | 81745 | 26788 | 23 | 25853 | 57585 | 8- | 81854 | 55584 | 8- | 01954 | 59484 |
| 210 86 | 81854 | 53587 | 83 | 28852 | 56584 | 80 | 01853 | 57583 | 54 | 02955 | 55416 |
| 220 | | | 82 | 64645 | 25568 | | | | 87 | 02755 | 25526 |
| 230 97 | 25855 | 55786 | 9- | 82646 | 53688 | 34 | 02856 | 22486 | | | |
| 245 24 | 02955 | 56686 | 54 | 01953 | 55513 | 80 | 01954 | 22314 | 74 | 01963 | 24303 |
| 260 4- | 01852 | 24724 | 53 | 81644 | 56685 | 50 | 81754 | 55484 | 46 | 01753 | 56323 |
| 278 8- | 02857 | 55587 | 37 | 55987 | 16353 | 5- | 58638 | 55568 | 8- | 81667 | 23427 |
| 279 | | | 54 | 25745 | 55687 | 5- | 52643 | 53658 | 24 | 02764 | 55463 |
| 285 27 | 02745 | 24716 | 27 | 81744 | 24784 | | | | | | |
| 288 5- | 02857 | 55527 | 53 | 01941 | 55414 | 6- | 02766 | 54616 | 50 | 01963 | 56413 |
| 575 36 | 81645 | 59586 | 47 | 81747 | 57588 | 5- | 21767 | 24557 | 5- | 02748 | 24458 |
| 301 5- | 02747 | 59627 | 53 | 05654 | 59765 | 57 | 02854 | 57728 | 27 | 02755 | 59527 |
| 321 | | | 5- | 05654 | 55426 | 5- | 05667 | 57427 | | | |
| 299 84 | 01864 | 22514 | 8- | 01755 | 23514 | 50 | 02755 | 22418 | 8- | 02745 | 24325 |
| 292 56 | 02856 | 57487 | 54 | 01853 | 57413 | 5- | 02858 | 53613 | 5- | 02856 | 57416 |
| 310 | | | 00 | 01634 | 26614 | | | | | | |
| 614 27 | 02766 | 24316 | 5- | 05665 | 22325 | 57 | 05663 | 55414 | 5- | 05647 | 22527 |

| 13h. G.M.T. 15th October | | | | 18h. G.M.T. | | | 01h. G.M.T. 16th October | | | 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 |
| 333 | | | 53 | 02864 | 57426 | 57 | 02854 | 57415 | 57 | 02755 | 22427 |
| 334 | | | -- | 02644 | 28615 | | | | | | |
| 340 50 | 01864 | 24415 | 40 | 01854 | 19314 | 5- | 01753 | 23313 | 57 | 02857 | 22428 |
| 136 53 | 02751 | 54566 | 44 | 01861 | 23413 | 5- | 01864 | 19514 | 57 | 51756 | 22457 |
| 336 13 | 01754 | 24515 | 57 | 02755 | 28428 | | | | 57 | 02753 | 28528 |
| 350 10 | 01851 | 23431 | 03 | 01890 | 22313 | 00 | 00790 | 24300 | 50 | 02764 | 22326 |
| 368 10 | 01955 | 57505 | 80 | 01748 | 57415 | 20 | 01754 | 55514 | 50 | 02744 | 23486 |
| 379 10 | 01853 | 24413 | 04 | 01890 | 22313 | 50 | 05652 | 22512 | 5- | 02846 | 22427 |
| 390 00 | 01790 | 22403 | 40 | 05663 | 22423 | 00 | 15690 | 22310 | 54 | 05662 | 22316 |
| 382 17 | 01863 | 58413 | 87 | 01862 | 57313 | 07 | 01890 | 23301 | 56 | 02876 | 22227 |
| 438 00 | 00790 | 22410 | 50 | 01783 | 22513 | 50 | 01662 | 24412 | 54 | 01753 | 26515 |
| 430 10 | 01851 | 22411 | | | | 00 | 00790 | 26300 | 54 | 01753 | 24317 |
| 409 10 | 01851 | 14413 | 50 | 01854 | 25424 | 50 | 01785 | 25515 | 5- | 25816 | 27486 |

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 October
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 * ... | cr$_0$m$_0$by | by6c$_2$ | bc$_2$ccw | Kew 24 hours ended 7h. Max. Time 0·1 14-21hrs 15th. Min. Time <0·1 0-5hrs 16th. |
| Croydon ... | b | by6cy6m$_0$ | bc$_2$cm$_0$ | |
| Greenwich ... | by | by | bcbc | |
| Camden Square | b | bc | * | |
| *Kensington ... | bc | bc | * | |
| Hampstead ... | bc | bc | bc | |

| Stations. | Temperature Day Max °F | Temperature Night Min °F | Temperature Min on grass °F | Rainfall Day mm | Rainfall Night mm | Sunshine to sunset hrs Yesterday | Humidity 15h % | Humidity 9h % Today |
|---|---|---|---|---|---|---|---|---|
| Kew ... | 59 | 48 | 42 | Tr | – | 8·1 | * | * |
| Croydon | 61 | 48 | 45 | 0·4 | – | 8·2 | * | * |
| Greenwich | 61 | 47 | 39 | – | – | 7·8 | 53 | 71 |
| Westminster | 62 | 48 | 43 | – | | * | 66 | 80 |
| Regents Park | 60 | 47 | 44 | – | – | * | 55 | 74 |
| Camden Square | 62 | 47 | 44 | – | – | * | * | 78 |
| Kensington | 62 | 47 | 40 | – | – | * | 51 | 74 |
| Hampstead | 60 | 45 | 40 | – | – | * | * | 78 |

Page 1 **BRITISH SECTION**

**SECRET**

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

Saturday 17· October 1942

No. 29549

## OBSERVATIONS at 13h. G.M.T. Friday 16th October

| 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) | 25·5 | 0 | W | 5 | c | 59 | 65 | 44 | 8 | 7 | 3 | 6 | 4-6 | 9+ | 4000 |
| | Croydon ... | 26·1 | -4 | SW | 4 | c | 59 | 75 | 52 | 7 | 1 | 4 | 6 | Tv | 9+ | 3000 |
| | S. Farnborough | 27·0 | +2 | W'N | 4 | c-bc | 60 | 62 | 47 | 8 | 7 | 7 | 2 | 4-6 | 7-8 | 1800 |
| | Boscombe Down | 27·2 | +2 | WNW | 5 | c | 57 | 75 | 49 | 8 | 5 | 3 | 6 | 9 | 9 | 2000 |
| | Thorney Island | 27·8 | +4 | W'N | 3 | c | 58 | 75 | 51 | 8 | 8 | - | 5 | 9 | 9+ | 2500 |
| | Lympne ... | 25·9 | -6 | W'S | 4 | c-bc | 57 | 65 | 47 | 8 | 1 | - | 5 | 4-6 | 7-8 | 3000 |
| | Manston ... | 25·0 | +2 | W | 5 | bc | 61 | 65 | 47 | 8 | 1 | 4 | 6 | Tv | 4-6 | 2100 |
| 2 | Shoeburyness ... | 24·3 | 0 | WSW | 4 | bc | 62 | 65 | 49 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Felixstowe ... | 23·4 | +2 | W'S | 4 | c-bc | 61 | 65 | 48 | 8 | 5 | 3 | 2 | 4-6 | 7-8 | 1500 |
| | Gorleston ... | 21·6 | +2 | WNW | 4 | bc | 57 | 75 | 48 | 7 | 5 | - | - | 4-6 | 4-6 | 1800 |
| | Mildenhall ... | 22·7 | 0 | W | 6 | c | 59 | 75 | 50 | 9 | 7 | - | - | 7-8 | 9+ | 2500 |
| | Cranwell ... | 21·1 | -2 | W'S | 5 | c | 59 | 65 | 47 | 7 | 7 | 7 | - | 7-8 | 9+ | 2500 |
| 3 | Birmingham ... | 24·7 | +6 | SSW | 4 | c | 55 | 85 | 51 | 8 | 5 | 2 | - | 9+ | 10 | 1500 |
| | Upper Heyford | 26·3 | +2 | W | 4 | c | 57 | 75 | 48 | 8 | 5 | 7 | - | 7-8 | 9+ | 1600 |
| 4 | Ross-on-Wye | 25·5 | 0 | W'S | 4 | c-bc | 61 | 65 | 47 | 8 | 7 | - | 2 | 4-6 | 7-8 | 3000 |
| 5 | Hartland Point | 29·1 | +4 | WNW | 4 | bc | 56 | 85 | 54 | 8 | 1 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol ... | 27·5 | -2 | W'N | 4 | c | 57 | 75 | 47 | 7 | 7 | 4 | - | 7-8 | 9 | 2500 |
| | Portland Bill ... | 28·7 | +6 | W | 5 | c | 59 | 92 | 47 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth ... | 30·0 | -2 | W'N | 4 | c | 58 | 75 | 48 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | The Lizard ... | 30·0 | 0 | WNW | 5 | bc | 59 | 75 | 51 | 8 | 2 | 6 | - | 2-3 | 4-6 | 2500 |
| | Scilly (St. Mary's) | 31·0 | -2 | W | 3 | bc | 61 | 65 | 50 | 8 | 8 | - | - | 4-6 | 4-6 | 1200 |
| | Guernsey ... | · | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 27·8 | +4 | W'N | 6 | cq | 56 | 92 | 54 | 8 | 2 | 6 | - | 4-6 | 7-8 | 3000 |
| 7 | Holyhead (Valley) | 24·3 | +12 | WSW | 5 | c | 57 | 75 | 50 | 8 | 5 | 7 | - | 2-3 | 10 | 3000 |
| | Chester (Sealand) | 23·0 | +6 | W'N | 4 | c | 59 | 75 | 49 | 8 | 5 | 2 | - | 7-8 | 10 | 3000 |
| 8 | Manchester ... | 22·3 | +6 | WSW | 5 | c | 56 | 75 | 50 | 7 | 2 | 7 | - | 4-6 | 9+ | 2500 |
| 10 | Spurn Head ... | 19·6 | +4 | W'N | 6 | cbc | 59 | 65 | 42 | 7 | 2 | 3 | - | 4-6 | 7-8 | 1500 |
| | Catterick ... | 18·7 | -2 | W'S | 4 | c | 57 | 75 | 48 | 8 | 5 | - | 9 | 4-6 | 9 | 1800 |
| | Tynemouth ... | 17·7 | +6 | W | 3 | c | 56 | 75 | 47 | 7 | 8 | - | - | 9 | 9 | 2200 |
| 11 | St. Abbs Head | 13·9 | +8 | W | 5 | c-bc | 53 | 56 | 37 | 7 | 6 | 4 | - | 4-6 | 7-8 | 3000 |
| | Leuchars ... | 13·1 | +6 | W | 6 | c-bc | 58 | 55 | 44 | 9 | 1 | 4 | 8 | 4-6 | 7-8 | 3000 |
| 12 | Renfrew (Abbots I.) | 16·4 | +2 | W | 5 | c | 55 | 65 | 43 | 8 | 5 | 3 | 2 | 7-8 | 9 | 2200 |
| | Eskdalemuir ... | 16·6 | +4 | W | 6 | c | 52 | 65 | 41 | 8 | 8 | - | 7 | 7-8 | 9 | 1800 |
| | Point of Ayre ... | 20·8 | +8 | WNW | 6 | c | 56 | 85 | 52 | 8 | 6 | 7 | - | 7-8 | 10 | 1800 |
| 13A | Tiree ... | 17·6 | +10 | WNW | 6 | pv | 53 | 65 | 43 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| 13B | Stornoway ... | 10·2 | +2 | WNW | 6 | c-bc/v | 50 | 85 | 45 | 8 | 3 | 4 | - | 4-6 | 7-8 | 2800 |
| 15 | Dalwhinnie ... | 13·0 | +10 | -W | 3 | o | 47 | 75 | 40 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Aberdeen ... | 11·4 | +8 | WNW | 3 | bc | 53 | 65 | 41 | 8 | 7 | - | 6 | 4-6 | 4-6 | 4000 |
| | Wick ... | 08·9 | +6 | WNW | 4 | pv | 47 | 85 | 44 | 7 | 8 | - | - | 9+ | 9+ | 1000 |
| 16 | Sumburgh ... | 05·4 | +12 | W'N | 5 | pv | 48 | 75 | 39 | 8 | 2 | 7 | - | 4-6 | 9+ | 2000 |
| 17 | Blacksod Point | 24·6 | +4 | WSW | 5 | c | 55 | 85 | 51 | 8 | 5 | - | - | 10 | 10 | 1500 |
| 18 | Malin Head ... | 19·4 | +8 | W | 5 | c/v | 53 | 85 | 49 | 8 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Aldergrove ... | 20·6 | -2 | W | 3 | $vr_0$ | 52 | 92 | 50 | 6 | 5 | 2 | - | 9+ | 10 | 1000 |
| 19 | *Birr Castle ... | 26·1 | +2 | W'N | 3 | c | 56 | 85 | 52 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 29·3 | +2 | W'S | 4 | bc | 57 | 85 | 53 | 8 | 8 | - | 2 | 4-6 | 4-6 | 1500 |
| | Roches Point | 28·9 | 0 | W | 2 | bc | 58 | 75 | 51 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 |

## OBSERVATIONS at 18h. G.M.T. Friday 16th October

| 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) | 25·9 | +6 | W'S | 3 | c | 57 | 75 | 48 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Croydon | 26·4 | +2 | W'S | 4 | $z_0$ | 57 | 85 | 51 | 6 | 5 | - | - | Tv | 9+ | 4000 | 1 | * |
| S. Farnborough | 26·6 | +6 | W | 3 | c | 56 | 75 | 48 | 7 | 5 | 3 | - | 9 | 9+ | 2500 | 0 | * |
| Boscombe Down | 27·1 | +2 | W'N | 3 | c | 53 | 85 | 48 | 7 | 5 | - | 1 | 2-3 | 4-6 | 2000 | 0 | * |
| Thorney Island | 27·2 | -2 | W'N | 3 | b-bc | 55 | 85 | 51 | 6 | 5 | 4 | 5 | 1 | 2-3 | 4000 | 0 | |
| Lympne | 25·6 | 0 | WSW | 2 | c | 54 | 85 | 51 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 4 |
| Manston | 25·2 | +6 | W'S | 4 | $z_0$ | 57 | 65 | 47 | 6 | 5 | - | - | 9+ | 9+ | 3500 | 1 | * |
| Shoeburyness | 24·9 | +12 | WSW | 2 | c | 58 | 75 | 48 | 6 | 5 | - | - | 10 | 10 | 1700 | 0 | * |
| Felixstowe | 24·1 | +6 | WSW | 4 | c | 57 | 75 | 48 | 7 | 5 | - | - | 9+ | 9+ | 5700 | 0 | 3 |
| Gorleston | 22·0 | +4 | W | 3 | c | 57 | 75 | 49 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 |
| Mildenhall | 23·1 | +2 | WSW | 4 | c | 56 | 85 | 50 | 7 | 5 | 7 | - | 4-6 | 9+ | 3000 | 0 | * |
| Cranwell | 21·9 | -6 | W | 4 | c-bc | 55 | 75 | 48 | 7 | 5 | 7 | 1 | 7-8 | 7-8 | 2000 | 0 | * |
| Birmingham | 25·0 | +2 | WSW | 3 | c | 54 | 85 | 50 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 24·9 | 0 | W'S | 3 | c | 54 | 75 | 48 | 7 | 5 | 3 | - | 4-6 | 9 | 3500 | 0 | * |
| Ross-on-Wye | 25·8 | +4 | WSW | 2 | c | 56 | 75 | 47 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| Hartland Point | 28·3 | -4 | WNW | 3 | bc | 55 | 85 | 51 | 8 | 5 | - | 5 | 4-6 | 4-6 | 2000 | 0 | 4 |
| Bristol | 27·3 | +2 | W | 4 | $z_0$ | 55 | 85 | 50 | 6 | 5 | 7 | - | 4-6 | 9+ | 2500 | 1 | * |
| Portland Bill | 28·0 | -2 | W | 5 | c | 58 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 5 |
| Plymouth | 29·4 | -2 | W'N | 4 | c | 55 | 85 | 51 | 7 | 5 | - | - | 9 | 9 | 2500 | 0 | 3 |
| The Lizard | 29·6 | -6 | WNW | 4 | bc | 54 | 85 | 50 | 8 | 8 | 6 | - | 2-3 | 4-6 | 2500 | 0 | 4 |
| Scilly (St. Mary's) | 30·2 | -2 | W'S | 3 | c | 55 | 85 | 49 | 8 | 5 | - | - | 9+ | 9+ | 1200 | 0 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 27·8 | 0 | W'N | 5 | bc | 55 | 92 | 53 | 8 | 7 | 4 | - | 4-6 | 4-6 | 3000 | 1 | 4 |
| Holyhead (Valley) | 24·6 | +2 | W | 5 | c | 55 | 85 | 49 | 8 | 7 | 7 | 3 | 9 | 10 | 3000 | 1 | 3 |
| Chester (Sealand) | 23·4 | +2 | W'N | 3 | c | 57 | 75 | 48 | 7 | 8 | 2 | - | 7-8 | 10 | 3000 | 1 | * |
| Manchester | 23·2 | +6 | SW | 4 | $id_0$ | 53 | 85 | 50 | 6 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Spurn Head | 20·4 | +8 | W | 6 | c | 56 | 75 | 48 | 7 | 7 | - | - | 10 | 10 | 2500 | 0 | 5 |
| Catterick | 20·0 | +10 | W'N | 3 | c | 54 | 75 | 48 | 8 | 5 | - | - | 9 | 9+ | 1800 | 0 | * |
| Tynemouth | 18·3 | +4 | W | 4 | c-bc | 53 | 75 | 46 | 7 | 8 | 3 | - | 4-6 | 7-8 | 2500 | 1 | 3 |
| St. Abbs Head | 14·5 | +2 | W | 4 | c | 52 | 65 | 41 | 7 | 6 | 4 | - | 7-8 | 9+ | 3000 | 0 | 4 |
| Leuchars | 14·7 | +14 | W | 4 | c | 52 | 75 | 44 | 8 | 4 | 7 | 8 | 4-6 | 9+ | 2800 | 0 | * |
| Renfrew (Abbots I.) | 18·1 | +12 | SW'W | 3 | c | 52 | 75 | 44 | 7 | 8 | 5 | - | 7-8 | 9 | 1800 | 1 | * |
| Eskdalemuir | 17·8 | +10 | W'S | 5 | c | 50 | 75 | 43 | 7 | 5 | - | - | 7-8 | 9+ | 1800 | 1 | * |
| Point of Ayre | 21·2 | +2 | NN'W | 5 | c | 55 | 92 | 52 | 3 | 4 | 7 | - | 9+ | 10 | 2500 | 1 | 3 |
| Tiree | 18·4 | +8 | W | 4 | c/v | 53 | 85 | 48 | 8 | 8 | 7 | - | 7-8 | 10 | 5700 | 1 | 3 |
| Stornoway | 12·5 | +10 | W | 4 | $pr_0$ | 49 | 85 | 46 | 8 | 8 | 2 | - | 4-6 | 9 | 1200 | 1 | 2 |
| Dalwhinnie | 15·0 | +10 | W | 3 | c-bc | 45 | 92 | 36 | 7 | 5 | 7 | - | 4-6 | 7-8 | 2500 | 1 | * |
| Aberdeen | 12·7 | +16 | S | 3 | b-bc | 49 | 75 | 40 | 7 | 5 | 7 | - | Tv | 2-3 | 3000 | 1 | 2 |
| Wick | 10·0 | +6 | WNW | 4 | c/pv | 45 | 85 | 39 | 8 | 9 | 4 | 8 | 4-6 | 9+ | 1560 | 1 | * |
| Sumburgh | 05·7 | +8 | WNW | 4 | $pv_0$ | 45 | 92 | 42 | 7 | 9 | - | - | 9+ | 9+ | 1500 | 1 | 4 |
| Blacksod Point | 24·1 | 0 | WSW | 4 | c | 54 | 85 | 50 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| Malin Head | 20·2 | +4 | W'S | 6 | [illegible] | 53 | 92 | 51 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 2 | 5 |
| Aldergrove | 22·0 | +2 | W'S | 3 | c | 53 | 85 | 49 | 7 | 5 | - | - | 9+ | 10 | 2000 | 1 | * |
| Birr Castle | 25·6 | 0 | W | 2 | c | 54 | 85 | 50 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 27·1 | +8 | SW'S | 4 | c | 55 | 88 | 51 | 8 | 5 | 3 | - | 9+ | 9+ | 2500 | 1 | 3 |
| Roches Point | 27·8 | -2 | W | 3 | bc | 55 | 85 | 51 | 8 | 5 | 3 | - | 1 | 4-6 | 2500 | 1 | 3 |

## PAST 24 HOURS — WEATHER

| Stations | 7h.—13h. 16th (39) | 13h.—18h. 16th (40) | 18h. 16th to 1h. 17th (41) | 1h.—7h. 17th (42) |
|---|---|---|---|---|
| London (Kew) | cwc | c | c, bbcw | bccw |
| Croydon | $cm_0c$ | $ccz_0$ | $cm_0bm_0$ | $bm_0cm_0c$ |
| S. Farnborough | $cm_0c$ | cbcc | cb | bbcwc |
| Boscombe Down | c | cbc | bccbbc | $bcm_0cw$ |
| Thorney Island | bcc | cbc | cbw | bwcw |
| Lympne | bc | bcc | cbcc | $bcwcm_0c$ |
| Manston | bkc | $bccz_0$ | $cz_0m_0bm_0$ | $bbccm_0$ |
| Shoeburyness | bc | $bccz_0$ | $cz_0c$ | $cm_0$ |
| Felixstowe | bcc | c | $ccm_0\ cbcm_0$ | $bcm_0cm_0cr_0$ |
| Gorleston | cbc | cbc | cbcc | $cir_0$ |
| Mildenhall | cbc, c | cbcc | cbccbc | $bcor_0r_0m_0$ |
| Cranwell | c | c | bc | $bccm_0c$ |
| Birmingham | c | c | $od_0d_0$ | $od_0c$ |
| Upper Heyford | c | c | bc | c |
| Ross-on-Wye | c | c | cbc | bcc |
| Hartland Point | cbc | bc | bcc | cbcc |
| Bristol | bccbcc | $ccm_0$ | $cm_0bcb$ | bccbc |
| Portland Bill | c | c | c | c |
| Plymouth | cbcc | c | cbcc | c |
| The Lizard | bc | bcc | cbcc | cid |
| Scilly (St. Mary's) | bc | bcc | c | $cid_0$ |
| Guernsey | | | | |
| Pembroke | cq | cqbc | bc | cid |
| Holyhead (Valley) | $civ_0c$ | $civ_0c$ | c | $cir_0c$ |
| Chester (Sealand) | c | $cvd_0vc$ | $cm_0c$ | c |
| Manchester | $cd_0v_0q$ | $cid_0m_0$ | $d_0d_0m_0$ | $d_0d_0m_0$ |
| Spurn Head | c | o | c | $cm_0$ |
| Catterick | $cpv_0bcc$ | c | cbcc | $ccid_0$ |
| Tynemouth | bcc | cbcc | bcc | $cp_0$ |
| St. Abbs Head | bcbcc | c | c | $cr_0$ |
| Leuchars | bbcy | c | $bccid_0$ | $cor_0r_0m_0$ |
| Renfrew (Abbots I.) | c | cqc | $cm_0id_0c$ | $r_0r_0d_0d_0$ |
| Eskdalemuir | $cpr_0c$ | c | cpr | cprdd |
| Point of Ayre | c | $m_0v_0c$ | $cpr_0c$ | cid |
| Tiree | $pvbccpr_0$ | $pv_0cid_0iv$ | $pr_0cr_0r_0$ | $r_0r_0dddd_0$ |
| Stornoway | cpviv | cprpv | $r_0r_0bcc$ | $cprr_0r_0$ |
| Dalwhinnie | $cpv_0o$ | $opv_0c$ | * | ciro |
| Aberdeen | cjpbc | bc | bcbbc | $bccd_0m_0$ |
| Wick | cpvccpr | ccprc | cprc | bcc |
| Sumburgh | c, bc, c | bccpv | bcprbc | $bir_0d_0d_0bc$ |
| Blacksod Point | c | c | c | d |
| Malin Head | v | v | r | r |
| Aldergrove | $cpr_0c$ | $cr_0r_0c$ | $cir_0c$ | $cid_0cm_0$ |
| Birr Castle | r | c | * | c |
| Valentia Obsy. | bc | pv | d | d |
| Roches Point | bc | bc | d | d |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 17th October

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands | Moderate to fresh westerly winds; dull; occasional slight drizzle locally; becoming mild and close. |
| 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands | Fresh west to southwest winds, probably strong locally on coasts in the North later; dull; occasional drizzle especially near the coast; much hill fog; close. |
| 10 N.E. England; 11 S.E. Scotland | Moderate to fresh Southwest winds; dull; some light rain at first; becoming mild and close. |
| 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Fresh West to Southwest winds, probably strong on the coasts tomorrow; dull; occasional drizzle or rain; much hill fog, close. |
| 16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland | As 12–15. |
| 19 S. E. Ireland; 20 S. W. Ireland | As 0-4. |

### GENERAL INFERENCE

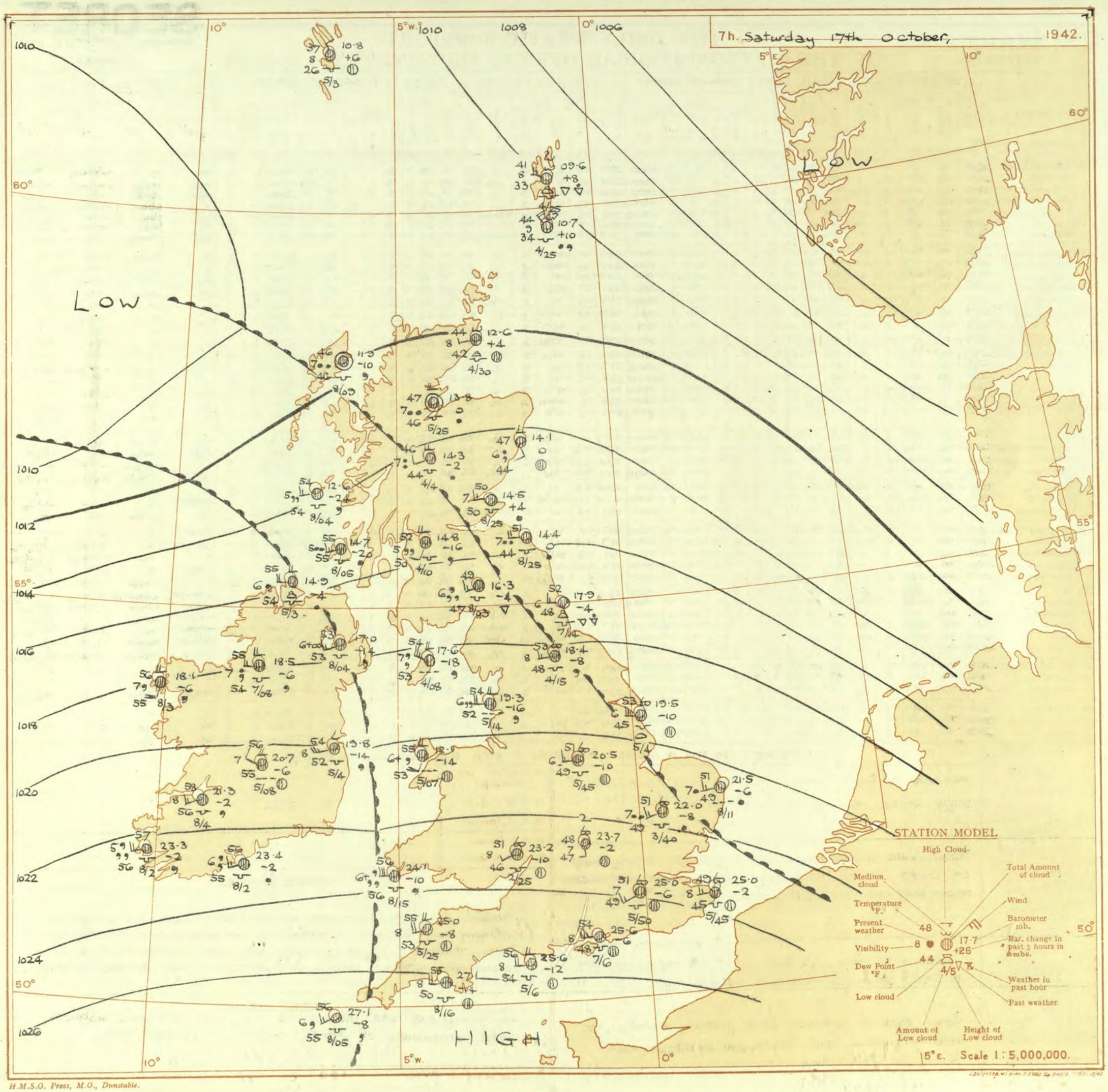
Pressure is high Southwest of the British Isles and a mild south-westerly air current is spreading eastwards over the British Isles. Weather will be generally dull with occasional drizzle toward all western coasts, and drizzle or rain at times in Scotland.

### FURTHER OUTLOOK

Continuing dull and mild in at least the southern districts; some probability of stormy conditions further 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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

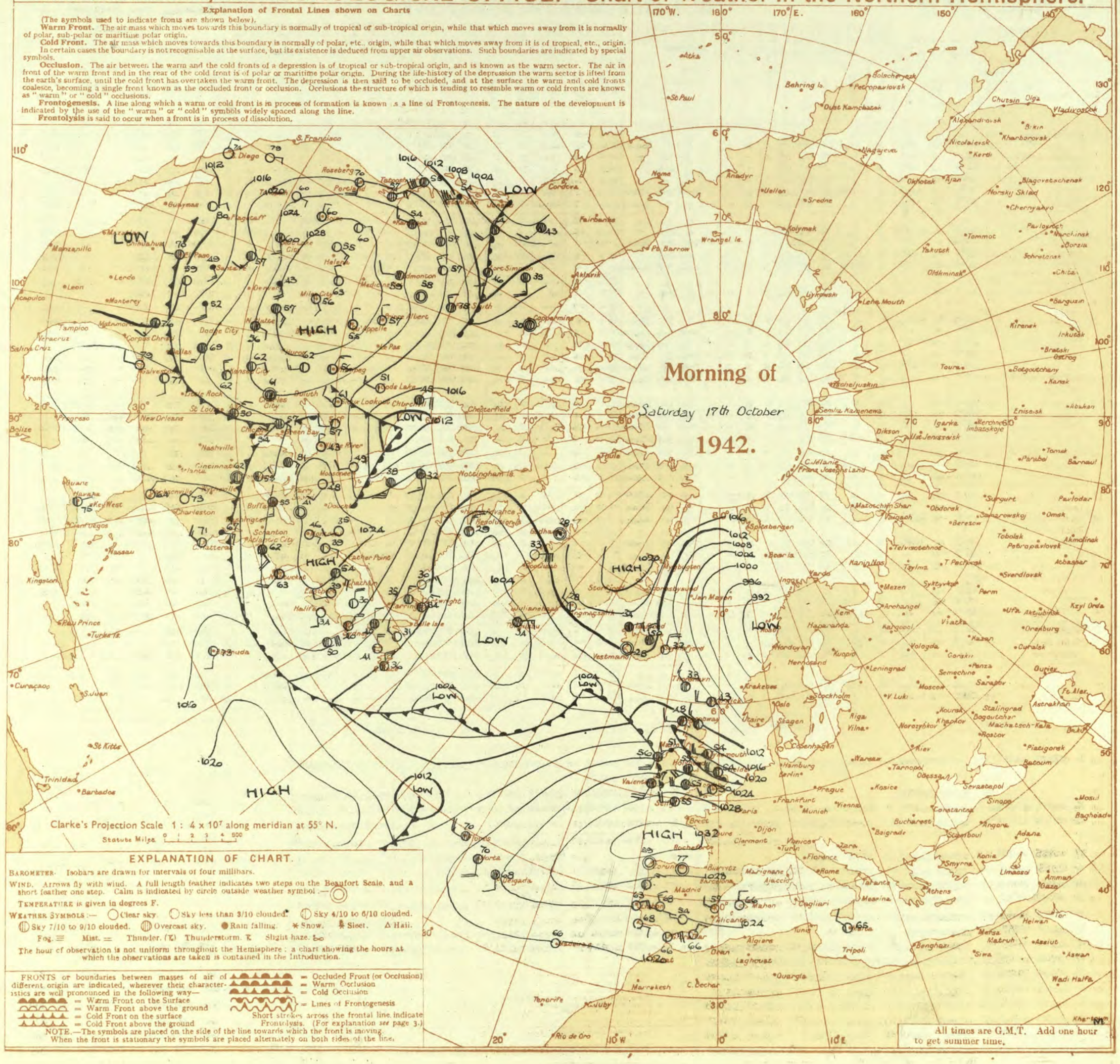
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Saturday 17th October 1942

No. 29549.

## OBSERVATIONS at 1 hr. G.M.T. 17th October

| District | Stations | Height above M.S.L. in feet. | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F (6) | % Humid. (7) | °F. Dew Point. (8) | Visibility 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base. (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 51 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 26·4 | -2 | SW | 3 | $z_o$ | 50 | 87 | 49 | 6 | 5 | - | - | 1 | 1 | 3000 |
| | S. Farnborough | 226 | 26·1 | -6 | WSW | 3 | b | 50 | 92 | 47 | 8 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 417 | 26·8 | -2 | W | 3 | bc | 47 | 87 | 46 | 7 | - | - | 6 | 0 | 4-6 | - |
| | Thorney Island | 10 | 27·0 | -4 | NW'W | 2 | b | 50 | 92 | 49 | 7 | - | - | - | 0 | 0 | - |
| | Lympne .. | 283 | 26·0 | -6 | WSW | 2 | c-bc | 51 | 85 | 48 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Manston ... | 154 | 25·2 | -6 | WSW | 3 | $z_o$ | 51 | 85 | 48 | 6 | 5 | - | - | 1 | 1 | 3000 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 24·2 | 0 | SW'W | 3 | $z_o$ | 52 | 85 | 47 | 6 | - | 7 | - | 0 | 2-3 | - |
| | Gorleston ... | 5 | 22·0 | 0 | W'N | 3 | c | 53 | 85 | 47 | 7 | 8 | - | - | 9+ | 9+ | 1500 |
| | Mildenhall ... | 15 | 23·2 | -6 | WSW | 4 | b-bc | 51 | 92 | 48 | 7 | - | 7 | - | 0 | 2-3 | - |
| | Cranwell ... | 203 | 22·3 | -2 | W | 4 | c-bc | 52 | 85 | 48 | 7 | 5 | 7 | - | 4-6 | 7-8 | 4000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 24·7 | -4 | W'S | 3 | c-bc | 50 | 85 | 46 | 7 | - | 5 | 6 | 0 | 7-8 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 26·9 | -14 | WNW | 4 | c | 55 | 75 | 48 | 8 | 5 | - | - | 9 | 9 | 2500 |
| | Bristol ... | 209 | 27·1 | -10 | W | 3 | c-bc | 51 | 92 | 50 | 7 | 5 | - | - | 7-8 | 7-8 | 2800 |
| | Portland Bill ... | 32 | 27·2 | -8 | W | 4 | c | 56 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth ... | 82 | 28·9 | -6 | W | 3 | c | 54 | 85 | 49 | 7 | 5 | 7 | - | 7-8 | 9 | 2100 |
| | The Lizard ... | 240 | 28·9 | -10 | W'N | 5 | c | 55 | 85 | 50 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 |
| | Scilly (St. Mary's) | 163 | 29·1 | -10 | W'S | 4 | c | 55 | 85 | 50 | 8 | 5 | - | - | 9+ | 9+ | 1200 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 26·6 | -6 | W | 5 | c | 55 | 92 | 52 | 8 | 8 | - | - | 10 | 10 | 3000 |
| 7 | Holyhead (Valley) | 32 | 24·2 | -8 | SW | 4 | c | 55 | 75 | 46 | 8 | 5 | - | - | 10 | 10 | 3500 |
| | Chester (Sealand) | 16 | 23·7 | -2 | S | 1 | c | 55 | 75 | 45 | 7 | 6 | 7 | - | 7-8 | 10 | 3800 |
| 8 | Manchester ... | 235 | 23·0 | -6 | SW | 3 | c-bc | 53 | 85 | 49 | 7 | 5 | - | - | 7-8 | 7-8 | 2900 |
| 10 | Spurn Head ... | 29 | 20·8 | -4 | W'N | 6 | c | 54 | 85 | 48 | 7 | 7 | - | - | 9+ | 9+ | 1500 |
| | Catterick ... | 175 | 19·9 | -10 | WSW | 3 | c-bc | 54 | 79 | 47 | 7 | 5 | 4 | - | 7-8 | 7-8 | 2700 |
| | Tynemouth ... | 108 | 18·4 | -4 | W | 5 | c-bc | 54 | 85 | 48 | 7 | 2 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 14·9 | -6 | W | 4 | c | 52 | 85 | 48 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars ... | 36 | 14·3 | -6 | W | 4 | c/d | 51 | 92 | 50 | 8 | 5 | 2 | - | 9 | 10 | 3400 |
| 12 | Renfrew (Abbotsl.) | 19 | 17·3 | -8 | SW'W | 4 | $id_o$ | 53 | 85 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 2400 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 21·2 | 0 | WNW | 5 | c | 54 | 92 | 51 | 8 | 5 | 4 | - | 2-3 | 9+ | 2000 |
| 13A | Tiree ... ... | 22 | 16·9 | -10 | W | 5 | $r_o r_o$ | 52 | 97 | 51 | 6 | 6 | 2 | - | 7-8 | 10 | 800 |
| 13B | Stornoway ... | 80 | 12·9 | +2 | W | 3 | c | 48 | 92 | 46 | 7 | 5 | 7 | - | 4-6 | 9 | 1500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 14·0 | +4 | W | 4 | c | 41 | 75 | 32 | 9 | 5 | 7 | - | 4-6 | 9 | 2000 |
| | Wick ... | 114 | 12·8 | +2 | WNW | 3 | c-bc | 45 | 92 | 43 | 7 | 8 | 7 | - | 4-6 | 7-8 | 3000 |
| 16 | Sumburgh .. | 19 | 09·4 | +10 | NW | 6 | b-bc | 44 | 65 | 33 | 8 | 5 | 4 | - | 2-3 | 2-3 | 1500 |
| 17 | Blacksod Point | 18 | 20·3 | -22 | SSW | 5 | c | 56 | 97 | 55 | 7 | 5 | - | - | 10 | 10 | 800 |
| 18 | Malin Head ... | 84 | 18·3 | -18 | SW | 2 | $r_o r_o$ | 51 | 97 | 50 | 6 | - | 2 | - | 10 | 10 | 1500 |
| | Aldergrove ... | 268 | 21·0 | -10 | SW | 2 | c | 51 | 85 | 47 | 7 | 5 | - | - | 10 | 10 | 3700 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 24·6 | -20 | SSW | 4 | c/d | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Roches Point | 22 | 25·9 | -14 | WSW | 3 | $id_o$ | 54 | 92 | 52 | 7 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 7 hr. G.M.T. 17th October

| District | Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | °F. Dew Point. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea. 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 24·3 | -8 | SW | 3 | c | 51 | 85 | 47 | 8 | 5 | 7 | - | 7-8 | 10 | 4000 | 1 | * |
| | Croydon ... | 25·0 | -6 | SW'S | 3 | c | 51 | 92 | 49 | 7 | 5 | 7 | - | 7-8 | 10 | 5000 | 1 | * |
| | S. Farnborough | 24·6 | -10 | SW | 3 | c | 50 | 85 | 46 | 8 | 5 | 3 | - | 9+ | 10 | 2200 | 0 | * |
| | Boscombe Down | 25·2 | -6 | SW | 3 | c | 50 | 85 | 47 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| | Thorney Island | 25·6 | -6 | W'S | 5 | c | 54 | 75 | 48 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 0 | * |
| | Lympne .. | 25·0 | -2 | W | 3 | c | 49 | 92 | 48 | 7 | 5 | 7 | - | 2-3 | 9 | 4000 | 1 | §3 |
| | Manston ... | 24·2 | -2 | WSW | 3 | c | 51 | 85 | 48 | 8 | 5 | 7 | - | 7-8 | 9 | 4500 | 0 | * |
| 2 | Shoeburyness ... | 23·8 | -6 | W | 3 | c-bc | 52 | 85 | 48 | 6 | - | 7 | - | 0 | 7-8 | - | 0 | * |
| | Felixstowe ... | 23·3 | -4 | WSW | 3 | $ir_o$ | 51 | 85 | 48 | 6 | - | 7 | - | 0 | 10 | - | 0 | |
| | Gorleston ... | 21·8 | -6 | W'S | 3 | $ir_o$ | 51 | 92 | 49 | 7 | 6 | - | - | 10 | 10 | 1100 | 1 | |
| | Mildenhall ... | 22·0 | -8 | SW | 3 | $r_o r_o$ | 51 | 92 | 49 | 7 | 5 | 7 | - | 2-3 | 10 | 4000 | 1 | * |
| | Cranwell ... | 20·3 | -10 | W'S | 2 | c | 52 | 85 | 47 | 7 | 5 | 7 | - | 7-8 | 10 | 4500 | 0 | * |
| 3 | Birmingham ... | 22·2 | -10 | SW | 3 | c | 50 | 85 | 46 | 8 | 5 | 7 | - | 2-3 | 9+ | 2500 | 1 | * |
| | Upper Heyford | 23·7 | -2 | S | 1 | c | 48 | 92 | 47 | 7 | - | 7 | 6 | 0 | 9+ | - | 0 | * |
| 4 | Ross-on-Wye | 23·2 | -10 | SW | 2 | c | 51 | 85 | 46 | 8 | 5 | 7 | - | 1 | 10 | 2500 | 0 | * |
| 5 | Hartland Point | 25·0 | -8 | WSW | 4 | c | 55 | 92 | 53 | 8 | 5 | 2 | - | 7-8 | 9+ | 2500 | 0 | 4 |
| | Bristol ... | 25·2 | -6 | WSW | 4 | c | 54 | 85 | 50 | 7 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | * |
| | Portland Bill ... | 25·6 | -12 | W | 4 | c | 56 | 92 | 54 | 8 | 5 | 2 | - | 7-8 | 10 | 4000 | 1 | 5 |
| | Plymouth ... | 27·1 | -14 | W | 4 | c | 55 | 85 | 50 | 8 | 5 | - | - | 10 | 10 | 1600 | 0 | 4 |
| | The Lizard ... | 27·0 | +8 | W | 4 | $id_o$ | 55 | 92 | 53 | 8 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| | Scilly (St. Mary's) | 27·1 | -8 | SW | 3 | $id_o$ | 56 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 500 | 1 | 3 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 24·1 | -10 | W'S | 6 | dd | 56 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| 7 | Holyhead (Valley) | 22·1 | -14 | SSW | 4 | $id_o$ | 55 | 92 | 53 | 6 | 6 | 2 | - | 7-8 | 10 | 700 | 1 | 4 |
| | Chester (Sealand) | 20·2 | -20 | SW'S | 2 | c | 55 | 75 | 48 | 7 | 5 | 1 | - | 7-8 | 9+ | 3000 | 0 | * |
| 8 | Manchester ... | 20·3 | -16 | S | 3 | c | 51 | 92 | 49 | 6 | - | 7 | - | 0 | 10 | - | 1 | * |
| 10 | Spurn Head ... | 19·5 | -10 | W | 5 | $z_o$ | 53 | 75 | 45 | 6 | 7 | 7 | - | 7-8 | 10 | 1500 | 0 | 4 |
| | Catterick ... | 18·4 | -8 | WSW | 3 | c | 53 | 85 | 48 | 8 | 8 | 7 | - | 4-6 | 10 | 1500 | 0 | * |
| | Tynemouth ... | 17·9 | -4 | W | 3 | c/pr | 52 | 85 | 48 | 6 | 8 | - | - | 9+ | 9+ | 1400 | 1 | 3 |
| 11 | St. Abbs Head | 14·4 | 0 | W | 4 | $r_o r_o$ | 51 | 75 | 44 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| | Leuchars ... | 14·5 | +4 | W | 3 | $r_o r_o$ | 50 | 97 | 50 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 12 | Renfrew (Abbotsl.) | 14·8 | -16 | SSW | 2 | $d_o d_o$ | 52 | 92 | 50 | 5 | 5 | 2 | - | 4-6 | 10 | 1000 | 1 | * |
| | Eskdalemuir ... | 16·3 | -4 | SW | 3 | dd | 49 | 92 | 47 | 6 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| | Point of Ayre... | 17·6 | -18 | W'N | 5 | id | 54 | 97 | 53 | 7 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 4 |
| 13A | Tiree ... ... | 12·6 | -24 | WSW | 3 | $d_o d_o$ | 54 | 97 | 54 | 8 | 5 | - | - | 10 | 10 | 450 | 1 | |
| 13B | Stornoway ... | 11·9 | -10 | - | 0 | $r_o r_o$ | 46 | 97 | 46 | 7 | 5 | - | - | 10 | 10 | 900 | 2 | 1 |
| 15 | Dalwhinnie ... | 14·3 | -2 | SW | 2 | ir | 46 | 92 | 44 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | * |
| | Aberdeen † ... | 14·1 | 0 | SSE | 2 | dr | 47 | 85 | 44 | 6 | - | 1 | - | 0 | 10 | - | 1 | 2 |
| | Wick ... | 12·6 | +4 | WSW | 1 | c | 44 | 92 | 42 | 8 | 8 | 3 | - | 4-6 | 9 | 3000 | 1 | * |
| 16 | Sumburgh .. | 10·7 | +10 | NW | 4 | c-bc/d | 44 | 65 | 34 | 9 | 5 | 4 | 4 | 4-6 | 7-8 | 2500 | 1 | 4 |
| 17 | Blacksod Point | 18·1 | -6 | SSW | 4 | $id_o$ | 56 | 97 | 55 | 7 | - | 2 | - | 10 | 10 | 800 | 1 | 3 |
| 18 | Malin Head ... | 14·9 | -4 | W'N | 4 | d | 55 | 97 | 54 | 6 | 8 | 2 | - | 7-8 | 10 | 800 | 2 | 3 |
| | Aldergrove ... | 17·0 | -14 | SW | 3 | $z_o$ | 53 | 97 | 53 | 6 | 5 | - | - | 10 | 10 | 400 | 1 | * |
| 19 | Birr Castle ... | 20·7 | -6 | WNW | 2 | c | 56 | 97 | 55 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| 20 | Valentia Obsy. | 23·3 | -2 | SW'W | 4 | dd | 57 | 97 | 56 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | 3 |
| | Roches Point | 23·4 | -2 | WSW | 3 | id | 56 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 450 | 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) | Night 18h–7h mm. (37) | Sunshine 16th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 59 | 50 | 44 | - | - | 4·2 |
| Croydon | 59 | 49 | 46 | - | - | 3·5 |
| S. Farnborough | 61 | 48 | 44 | - | Tr | 6·8 |
| Boscombe Down | 58 | 47 | 40 | - | Tr | 2·6 |
| Thorney Island | 59 | 48 | 42 | - | - | * |
| Lympne | 59 | 48 | 45 | - | - | 8·2 |
| Manston | 61 | 50 | 45 | - | - | 8·1 |
| Shoeburyness | 63 | 51 | 47 | - | - | 6·5 |
| Felixstowe | 62 | 51 | 47 | - | Tr | 5·3 |
| Gorleston | 59 | 50 | 47 | - | 1 | 2·1 |
| Mildenhall | 61 | 49 | 42 | - | 1 | 2·5 |
| Cranwell | 59 | 51 | 48 | - | - | 1·8 |
| Birmingham | 59 | 50 | 45 | - | 0·5 | 0·0 |
| Upper Heyford | 57 | 47 | 44 | - | - | * |
| Ross-on-Wye | 61 | 49 | 42 | - | - | 1·6 |
| Hartland Point | 57 | 54 | 51 | - | - | 5·0 |
| Bristol | 59 | 50 | 46 | - | - | 1·8 |
| Portland Bill | 59 | 54 | * | - | - | * |
| Plymouth | 59 | 53 | 47 | - | - | 2·5 |
| The Lizard | 60 | 53 | * | - | Tr | 9·4 |
| Scilly (St. Mary's) | 61 | 55 | * | - | Tr | 8·6 |
| Guernsey | | | | | | |
| Pembroke | 56 | 52 | * | - | 0·5 | 2·2 |
| Holyhead (Valley) | 59 | 54 | 51 | Tr | Tr | * |
| Chester (Sealand) | 59 | 54 | 50 | 0·3 | - | 0·4 |
| Manchester | 57 | 51 | 49 | 0·3 | Tr | * |
| Spurn Head | 59 | 51 | * | - | Tr | 1·9 |
| Catterick | 60 | 52 | 48 | Tr | Tr | 3·2 |
| Tynemouth | 57 | 51 | 48 | - | 0·1 | * |
| St. Abbs Head | 54 | 50 | * | 0 | 0·1 | * |
| Leuchars | 58 | 49 | 44 | - | 0·5 | 7·4 |
| Renfrew (Abbotsl.) | 55 | 51 | 49 | 0·1 | 0·5 | 0·7 |
| Eskdalemuir | 53 | 47 | 46 | 0·3 | 4 | 3·1 |
| Point of Ayre | 58 | 52 | * | 1 | 0·3 | 0·9 |
| Tiree | 54 | 51 | * | Tr | 7 | |
| Stornoway | 52 | 45 | * | 2 | 1 | 2·6 |
| Dalwhinnie | 50 | 44 | 39 | 0·1 | 4 | 1·4 |
| Aberdeen † | 56 | 47 | 42 | - | 0·1 | 3·9 |
| Wick | 50 | 42 | 38 | 7 | 3 | * |
| Sumburgh | 49 | 43 | 37 | 3 | 2 | 4·1 |
| Blacksod Point | 56 | 53 | * | 0·1 | 1 | * |
| Malin Head | 54 | 51 | | 1 | 2 | 0·1 |
| Aldergrove | 54 | 50 | 49 | 0·6 | 0·5 | 0·0 |
| Birr Castle | 58 | 55 | 49 | Tr | 0·2 | 0·0 |
| Valentia Obsy. | 53 | 53 | 49 | Tr | 2 | 4·4 |
| Roches Point | 60 | 53 | * | - | 1 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 16th October | | | 18h. G.M.T. | | | 01h. G.M.T. 17th October | | | 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 36 | 25855 | 24685 | 3- | 10855 | 58686 | 50 | 61646 | 25316 | 87 | 81854 | 27258 |
| 115 | | | | | | | | | | | |
| 203 | | | 8- | 81848 | 24588 | | | | | | |
| 206 26 | 01953 | 59484 | 41 | 20854 | 26488 | 57 | 55168 | 14049 | 52 | 62755 | 00068 |
| 210 26 | 25864 | 57585 | 86 | 10845 | 56487 | 57 | 02885 | 22428 | 07 | 51890 | 20258 |
| 220 | | | | | | | | | 5- | 58418 | 00068 |
| 230 87 | 23855 | 22487 | 82 | 02856 | 24487 | 62 | 42747 | 20488 | | | |
| 245 14 | 02953 | 24315 | 84 | 02854 | 24219 | 5- | 02868 | 22418 | 52 | 62855 | 24168 |
| 260 20 | 01863 | 24414 | 5- | 02755 | 24428 | 52 | 05654 | 24528 | 02 | 61748 | 20368 |
| 278 8- | 25847 | 59587 | 52 | 25846 | 25488 | 5- | 02758 | 36458 | 62 | 61737 | 22368 |
| 279 9- | 81757 | 56667 | 87 | 02745 | 24487 | 5- | 02758 | 20358 | 5- | 52428 | 53458 |
| 285 27 | 05635 | 25787 | 27 | 25635 | 26786 | | | | | | |
| 288 53 | 02854 | 56517 | 57 | 02854 | 22428 | 52 | 02755 | 22478 | 52 | 22858 | 21368 |
| 575 57 | 51746 | 24458 | 57 | 02845 | 23458 | 02 | 52638 | 21358 | 52 | 58737 | 24358 |
| 301 5- | 05644 | 59558 | 5- | 05658 | 59528 | 57 | 02765 | 25428 | 62 | 52645 | 24458 |
| 321 5- | 02756 | 24426 | 57 | 05666 | 23427 | 57 | 05655 | 25428 | 07 | 02790 | 23327 |
| 299 8- | 02756 | 24316 | 51 | 02755 | 22315 | 5- | 02758 | 22315 | 5- | 25648 | 24368 |
| 292 59 | 02855 | 56427 | 57 | 02855 | 22327 | 5- | 02876 | 23326 | 57 | 22856 | 23267 |
| 310 -- | 02628 | 24528 | -- | 57209 | 24459 | 09 | 5545- | 61748 | -- | 02618 | 24328 |
| 614 77 | 02765 | 22128 | 57 | 51654 | 21365 | | | | 57 | 05665 | 22327 |

| 13h. G.M.T. 16th October | | | 18h. G.M.T. | | | 01h. G.M.T. 17th October | | | 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 |
| 333 53 | 02864 | 22425 | 5- | 21745 | 22358 | 57 | 02862 | 22318 | 52 | 51737 | 53458 |
| 334 -- | 51637 | 26588 | | | | | | | | | |
| 340 5- | 22848 | 23368 | 5- | 21857 | 23358 | 5- | 01764 | 23214 | 59 | 02855 | 22427 |
| 136 53 | 02756 | 24467 | 5- | 02767 | 28527 | 57 | 02643 | 21227 | 07 | 62690 | 20368 |
| 336 51 | 02756 | 24428 | 13 | 01754 | 28415 | | | | 51 | 02754 | 24428 |
| 350 53 | 02756 | 22427 | 57 | 02765 | 23326 | 50 | 01764 | 22324 | 07 | 05690 | 20327 |
| 368 | | | 50 | 02856 | 57426 | 80 | 01854 | 26414 | 3- | 53558 | 20458 |
| 379 57 | 02855 | 24328 | 51 | 02758 | 24328 | 50 | 01764 | 24148 | 57 | 02863 | 20327 |
| 390 77 | 02765 | 24426 | 5- | 05658 | 21428 | 5- | 05668 | 21428 | 07 | 41590 | 22448 |
| 382 77 | 02855 | 23327 | 57 | 02756 | 22327 | 07 | 01790 | 25314 | 09 | 02890 | 23328 |
| 438 80 | 02754 | 23515 | 52 | 01743 | 22515 | | | | 5- | 02745 | 23415 |
| 430 53 | 02764 | 22326 | 02 | 01790 | 22122 | 00 | 05690 | 00000 | 57 | 02768 | 24326 |
| 409 50 | 01854 | 26424 | 5- | 02855 | 24125 | 5- | 02848 | 22428 | 5- | 21857 | 22457 |

II = 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 October
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 * ... ... | cwc | c | c bbcw | Kew 24 hours ended 7h. Max. Time 0·1 7-23hrs 16th. Min. Time 0·1 0-5hrs 17th |
| Croydon ... | cm$_o$c | cc$z_o$ | cm$_o$c | |
| Greenwich ... | bc ⊕ | c | cbc | |
| Camden Square | bc | c | * | |
| *Kensington ... | bc | bc | * | |
| Hampstead ... | bc | cp | o | |

| Stations. | Temperature Day Max °F | Temperature Night Min °F | Temperature Min on grass °F | Rainfall Day mm | Rainfall Night mm | Sunshine to sunset hrs Yesterday | Humidity 15h % Yesterday | Humidity 9h % To-day |
|---|---|---|---|---|---|---|---|---|
| Kew ... ... | 59 | 50 | 44 | - | - | 4·2 | * | * |
| Croydon ... | 58 | 49 | 46 | - | - | 3·5 | * | * |
| Greenwich ... | 61 | 49 | 42 | - | - | 4·3 | 64 | 77 |
| Westminster ... | 62 | 50 | 43 | - | - | * | 77 | 87 |
| Regents Park ... | 60 | 49 | 46 | - | - | * | 65 | 80 |
| Camden Square ... | 61 | 50 | 46 | - | - | * | * | 81 |
| Kensington ... | 62 | 49 | 40 | - | - | * | 70 | 82 |
| Hampstead ... | 61 | 47 | 43 | - | Tr | * | * | 88 |

SECRET

Page 1 BRITISH SECTION

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

Sunday 18th October 1942

No. 29550

## OBSERVATIONS at 13h. G.M.T. 17th October

| 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) | 21.6 | -20 | SW | 3 | c/r | 56 | 85 | 51 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Croydon | 22.6 | -18 | SWS | 4 | id. | 57 | 85 | 53 | 7 | 5 | 2 | - | 7-8 | 10 | 1800 |
| | S. Farnborough | 22.3 | -24 | WSW | 4 | c | 58 | 85 | 52 | 8 | 5 | - | - | 10 | 10 | 1600 |
| | Boscombe Down | 22.6 | -22 | W | 5 | c | 59 | 75 | 53 | 8 | 5 | - | - | 9+ | 9+ | 1400 |
| | Thorney Island | 23.4 | -22 | SW'W | 4 | c | 59 | 85 | 53 | 8 | 5 | - | • | 10 | 10 | 2500 |
| | Lympne | 22.9 | -18 | W'S | 4 | c | 57 | 75 | 49 | 8 | 1 | 3 | 6 | 4-6 | 9+ | 2200 |
| | Manston | 21.1 | -20 | WSW | 4 | c-bc | 59 | 75 | 49 | 8 | 5 | 7 | 4 | 4-6 | 7-8 | 5000 |
| 2 | Shoeburyness | 21.4 | -20 | W | 3 | c | 60 | 75 | 51 | 8 | 5 | - | - | 10 | 10 | 4500 |
| | Felixstowe | 21.4 | -16 | WSW | 4 | c | 59 | 75 | 52 | 7 | 5 | 7 | - | 4-6 | 10 | 4000 |
| | Gorleston | 19.3 | -20 | W | 3 | c | 56 | 75 | 49 | 7 | 5 | - | - | 10 | 10 | 800 |
| | Mildenhall | 19.4 | -24 | SW'W | 5 | c | 59 | 75 | 49 | 8 | 5 | 7 | - | 9 | 10 | 3000 |
| | Cranwell | 17.2 | -30 | WSW | 4 | c | 59 | 75 | 52 | 7 | 5 | 1 | - | 4-6 | 10 | 2000 |
| 3 | Birmingham | 19.4 | -18 | WSW | 4 | c | 60 | 85 | 55 | 8 | 5 | 7 | - | 4-6 | 9+ | 2500 |
| | Upper Heyford | 21.0 | -24 | WSW | 3 | c | 58 | 92 | 54 | 8 | 5 | 2 | - | 9 | 10 | 1000 |
| 4 | Ross-on-Wye | 20.6 | -20 | SW'W | 3 | c | 62 | 75 | 54 | 8 | 5 | - | 2 | 7-8 | 9 | 2500 |
| 5 | Hartland Point | 23.2 | -10 | WSW | 4 | id | 57 | 97 | 56 | 7 | 5 | - | - | 9+ | 9+ | 1900 |
| | Bristol | 23.0 | -22 | W | 5 | c | 60 | 85 | 56 | 7 | 5 | 7 | - | 9 | 9+ | 1500 |
| | Portland Bill | 23.8 | -22 | WSW | 5 | o | 58 | 92 | 56 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth | 25.6 | -16 | WSW | 5 | d.d. | 57 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 400 |
| | The Lizard | 25.9 | -10 | WSW | 5 | c/d | 57 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 25.9 | -14 | SW'W | 4 | c/d | 60 | 92 | 57 | 7 | 5 | - | - | 9+ | 9+ | 800 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 22.7 | -10 | W | 6 | c | 57 | 97 | 57 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 7 | Holyhead (Valley) | 19.0 | -12 | SW'W | 4 | c | 57 | 92 | 55 | 7 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| | Chester (Sealand) | 18.4 | -6 | WSW | 3 | id. | 61 | 85 | 56 | 7 | 5 | 2 | - | 7-8 | 9+ | 3000 |
| 8 | Manchester | 18.5 | -12 | SW | 4 | id | 58 | 92 | 56 | 5 | 5 | 2 | - | 7-8 | 10 | 1000 |
| 10 | Spurn Head | 16.6 | -28 | WSW | 4 | z. | 57 | 85 | 51 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Catterick | 15.2 | -18 | W | 2 | c | 59 | 85 | 53 | 9 | 5 | 7 | 1 | 2-3 | 9+ | 1000 |
| | Tynemouth | 14.8 | -12 | W | 4 | c | 59 | 85 | 53 | 6 | 3 | 2 | - | 9 | 9 | 2200 |
| 11 | St. Abbs Head | 12.4 | -18 | SW | 1 | pr | 52 | 97 | 52 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars | 12.1 | -14 | - | 0 | d.d. | 53 | 97 | 52 | 6 | 6 | 2 | - | 10 | 10 | 1400 |
| 12 | Renfrew (Abbots I.) | 12.8 | -6 | WSW | 4 | d.d. | 56 | 85 | 54 | 5 | 5 | - | - | 10 | 10 | 800 |
| | Eskdalemuir | 13.4 | -12 | W | 4 | r.r. | 55 | 92 | 53 | 6 | 6 | - | - | 10 | 10 | 900 |
| | Point of Ayre | 16.2 | -10 | W | 5 | c | 58 | 97 | 56 | 8 | 8 | 2 | - | 9 | 10 | 1500 |
| 13A | Tiree | 11.8 | -4 | WSW | 4 | iD | 55 | 97 | 55 | 7 | 5 | - | - | 10 | 10 | 200 |
| 13B | Stornoway | 11.7 | 0 | ESE | 3 | r.r. | 48 | 97 | 47 | 7 | 5 | 2 | - | 7-8 | 10 | 1000 |
| 15 | Dalwhinnie | 11.0 | -6 | N | 1 | dd | 47 | 97 | 47 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Aberdeen | 13.2 | -6 | - | 0 | r.r. | 47 | 92 | 44 | 6 | 6 | 2 | - | 2-3 | 10 | 800 |
| | Wick | 12.8 | -4 | - | 0 | c | 48 | 85 | 44 | 8 | 8 | 2 | - | 4-6 | 10 | 2500 |
| 16 | Sumburgh | 12.1 | +6 | NW'W | 4 | c | 45 | 55 | 31 | 9 | 5 | 7 | - | 9 | 9+ | 2500 |
| 17 | Blacksod Point | 16.2 | -10 | SW | 5 | dd | 57 | 97 | 56 | 7 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head | 13.5 | -10 | W'S | 4 | d.d. | 56 | 97 | 55 | 6 | - | 2 | - | 10 | 10 | 450 |
| | Aldergrove | 15.7 | -10 | SW | 3 | d.d. | 57 | 97 | 56 | 7 | 6 | 2 | - | 9+ | 10 | 300 |
| 19 | Birr Castle | 19.0 | -14 | SSW | 3 | c | 61 | 85 | 56 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 20 | Valentia Obsy. | 22.3 | -4 | SW | 4 | r. | 59 | 97 | 58 | 5 | 5 | 2 | - | 9+ | 10 | 800 |
| | Roches Point | 22.5 | -6 | W'S | 3 | c/d | 58 | 92 | 56 | 8 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 18h. G.M.T. 17th October

| 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 | -4 | WSW | 3 | z. | 59 | 85 | 53 | 6 | 5 | - | 4 | 7-8 | 9+ | 1500 | 1 | * |
| Croydon | 20.6 | +6 | WSW | 4 | z. | 59 | 92 | 56 | 6 | 5 | 7 | - | 4-6 | 9+ | 1200 | 1 | * |
| S. Farnborough | 20.2 | -4 | WSW | 3 | c | 58 | 85 | 54 | 8 | 5 | 2 | - | 9+ | 10 | 1200 | 0 | * |
| Boscombe Down | 21.5 | -2 | W'N | 3 | c | 58 | 85 | 54 | 7 | 5 | 3 | - | 9 | 9+ | 800 | 0 | * |
| Thorney Island | 21.0 | -14 | W'S | 4 | c | 59 | 85 | 54 | 7 | 5 | 3 | - | 9 | 9+ | 2500 | 0 | * |
| Lympne | 20.6 | -10 | WSW | 3 | c | 56 | 92 | 54 | 7 | 5 | 3 | - | 9 | 10 | 1500 | 1 | § 5 |
| Manston | 19.2 | -12 | SW'W | 3 | c | 56 | 85 | 52 | 7 | 5 | 7 | - | 4-6 | 9+ | 1500 | 1 | * |
| Shoeburyness | 18.8 | -22 | SW | 4 | c | 58 | 85 | 53 | 6 | 5 | - | - | 10 | 10 | 2000 | 0 | * |
| Felixstowe | 18.2 | -12 | SW'S | 4 | c/d | 57 | 85 | 53 | 5 | 5 | - | - | 10 | 10 | 2500 | 0 | 4 |
| Gorleston | 16.4 | -14 | W'S | 3 | o | 58 | 85 | 53 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 |
| Mildenhall | 17.0 | -8 | WSW | 4 | c | 60 | 85 | 55 | 7 | 5 | 7 | - | 9+ | 10 | 2000 | 1 | * |
| Cranwell | 16.1 | -2 | W'S | 3 | ir | 60 | 85 | 54 | 6 | 5 | 1 | - | 4-6 | 10 | 2000 | 0 | * |
| Birmingham | 18.2 | -4 | WSW | 3 | c/r | 58 | 92 | 56 | 8 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 18.7 | -10 | W'S | 4 | ir. | 57 | 92 | 55 | 7 | 5 | 7 | 2 | 4-6 | 9 | 1200 | 0 | * |
| Ross-on-Wye | 19.5 | -4 | W'S | 4 | c | 60 | 85 | 53 | 8 | 5 | 4 | 1 | 9 | 9+ | 2500 | 0 | * |
| Hartland Point | 21.6 | -12 | WSW | 4 | c | 56 | 97 | 56 | 6 | 5 | 2 | - | 7-8 | 10 | 800 | 1 | 4 |
| Bristol | 21.9 | -2 | W | 4 | c | 57 | 97 | 56 | 7 | 5 | - | - | 10 | 10 | 500 | 1 | * |
| Portland Bill | 21.6 | -12 | SW | 5 | o | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 5 |
| Plymouth | 23.1 | -16 | W | 3 | d.d. | 57 | 97 | 56 | 6 | 5 | - | - | 4-6 | 10 | 600 | 1 | 4 |
| The Lizard | 24.0 | -6 | W | 5 | df | 56 | 97 | 56 | 2 | 5 | - | - | 10 | 10 | 400 | 1 | 5 |
| Scilly (St. Mary's) | 24.8 | -2 | WSW | 4 | c/d | 51 | 97 | 51 | 7 | 5 | - | - | 10 | 10 | 400 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 20.8 | -6 | W | 6 | d.d. | 56 | 97 | 56 | 3 | 8 | - | - | 10 | 10 | 2000 | 1 | 3 |
| Holyhead (Valley) | 17.3 | -8 | SW'S | 5 | c | 58 | 97 | 57 | 7 | 5 | 7 | - | 9 | 10 | 3500 | 1 | 5 |
| Chester (Sealand) | 16.1 | -14 | WSW | 3 | c | 60 | 85 | 56 | 7 | 5 | 2 | • | 7-8 | 10 | 3000 | 0 | * |
| Manchester | 16.5 | -10 | S | 3 | rr | 57 | 92 | 56 | 4 | 6 | 2 | - | 7-8 | 10 | 500 | 1 | * |
| Spurn Head | 15.0 | -4 | WNW | 4 | z. | 57 | 85 | 53 | 6 | 7 | 1 | • | 4-6 | 10 | 1500 | 0 | 3 |
| Catterick | 14.0 | -4 | W'S | 2 | c | 59 | 85 | 55 | 8 | 5 | 7 | - | 9 | 10 | 1300 | 0 | * |
| Tynemouth | 13.3 | -4 | SSE | 3 | z. | 59 | 85 | 56 | 6 | 8 | 3 | - | 7-8 | 9 | 2200 | 1 | 2 |
| St. Abbs Head | 11.0 | -6 | ESE | 1 | rF | 51 | 97 | 51 | 1 | 5 | - | - | 10 | 10 | 600 | 1 | 3 |
| Leuchars | 11.0 | -6 | NE | 1 | d.d. | 50 | 97 | 50 | 5 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| Renfrew (Abbots I.) | 11.3 | -2 | WSW | 2 | c/d | 56 | 97 | 55 | 6 | 5 | 2 | • | 9 | 9+ | 800 | 1 | * |
| Eskdalemuir | 11.8 | -6 | SW'W | 4 | r.r. | 55 | 97 | 54 | 6 | - | 2 | • | 10 | 10 | 200 | 1 | * |
| Point of Ayre | 13.9 | -8 | W'N | 5 | rr | 58 | 97 | 58 | 7 | 6 | 2 | - | 7-8 | 10 | 600 | 1 | 4 |
| Tiree | 10.3 | -8 | WSW | 3 | id | 54 | 97 | 54 | 4 | 5 | - | - | 10 | 10 | 100 | 1 | |
| Stornoway | 08.5 | -14 | E | 3 | iR | 48 | 97 | 48 | 6 | 5 | 2 | - | 9 | 10 | 1000 | 1 | 1 |
| Dalwhinnie | 09.0 | -6 | NE | 1 | ir | 47 | 97 | 47 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Aberdeen | 12.1 | -2 | S | 1 | r.r. | 46 | 92 | 44 | 4 | 5 | 2 | - | 4-8 | 10 | 800 | 1 | 1 |
| Wick | 12.2 | 0 | - | 0 | r.r. | 46 | 85 | 42 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | * |
| Sumburgh | 12.2 | +4 | N | 2 | c | 43 | 55 | 32 | 9 | 5 | 7 | • | 7-8 | 9+ | 2500 | 1 | 3 |
| Blacksod Point | 16.3 | +2 | SW | 3 | df | 56 | 97 | 55 | 6 | - | 2 | - | 10 | 10 | 450 | 1 | 3 |
| Malin Head | 12.4 | -2 | W'N | 5 | DD | 55 | 97 | 54 | 4 | - | 2 | - | 10 | 10 | 450 | 2 | 3 |
| Aldergrove | 14.2 | -2 | WSW | 3 | d.d. | 57 | 97 | 57 | 6 | 6 | 2 | - | 9+ | 10 | 200 | 1 | * |
| Birr Castle | 18.0 | 0 | WSW | 4 | c | 60 | 97 | 59 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 21.4 | +2 | SW | 4 | dr | 57 | 97 | 56 | 5 | 5 | 2 | - | 9 | 10 | 450 | 1 | 4 |
| Roches Point | 21.1 | -6 | WSW | 3 | c/d | 57 | 92 | 55 | 8 | 5 | - | - | 9+ | 9+ | 800 | 1 | 4 |

## PAST 24 HOURS.

| Stations | Weather 7h.—13h. 17th (39) | Weather 13h.—18h. 17th (40) | Weather 18h. 17th to 1h. 18th (41) | Weather 1h.—7h. 18th (42) |
|---|---|---|---|---|
| London (Kew) | cqir.c | ccm. | cm. | cm.c |
| Croydon | ccm.c | cid.cm. | cir.m.cm. | cm.c |
| S. Farnborough | cm. | c | c | m.c |
| Boscombe Down | c | cid.c | c | c |
| Thorney Island | cwc | c | cm.c | ccir. |
| Lympne | cbcc | ccid.c | om. | cm. bcwc |
| Manston | c | cid.m.c | cbcm. | cd.r.bc |
| Shoeburyness | bbc | cd.d.cm. | cm. | cr. bc |
| Felixstowe | cm.c | ccm.cid.cm. | ir.r.r.cm. | bcm.cm.c |
| Gorleston | c | c | oir.z. | c |
| Mildenhall | cr.r.m.,c | ccid.c | crrm. | crrm.c |
| Cranwell | ccm.c | c | crrir.m. | cm. |
| Birmingham | c | coir. | o | oir. |
| Upper Heyford | c | cir. | cir.c | c |
| Ross-on-Wye | c | c | c | c |
| Hartland Point | cidoc | cidc | cd.m.c | id.idc |
| Bristol | cd.d.c | cm.c | ccm.ir.c | cir.m. |
| Portland Bill | c | o | o | oc |
| Plymouth | cd.d.m. | cm.d.d. | cd.d.m. | cid.m. |
| The Lizard | cido | om.idf | coid. | id mdd |
| Scilly (St. Mary's) | cid. | cid. | cid.fe | bffe |
| Guernsey | | | | |
| Pembroke | idc | cdfdf | cbcq | cqid.pr |
| Holyhead (Valley) | coidc | cr.c | cir.c | cr.r.rr |
| Chester (Sealand) | cid | cid.c | cid.m.c | cidrr |
| Manchester | cd.d.id. | dodorr | RRrrc | r.r.cm. |
| Spurn Head | cm. | cm. | cm. | c |
| Catterick | ccir.c | c | cbc | cbcc |
| Tynemouth | cp.m.c | c | c | c |
| St. Abbs Head | crocprm. | crof | oFdm.c | om.cpr |
| Leuchars | oid.m.d.d. | cd.d.m.o | d.m.rodm | od rFcjFm. |
| Renfrew (Abbots I.) | cm.d.d. | cd.id.m. | cd.d.id.c | |
| Eskdalemuir | oderr. | cd.or. | | cir.c |
| Point of Ayre | idc | cr.r.rr | rrr. | r.r.c |
| Tiree | ddrroD | ddfid | idmfrm. | id.d.rr. |
| Stornoway | crr | cr.r. | cr.r. | cr.r. |
| Dalwhinnie | odd | oir | * | ocrc |
| Aberdeen | or.r.rrm. | or.r.m | prrm | rrr.r.m. |
| Wick | c | cir.cr.r. | or.r.m. | cd.d.d.m. |
| Sumburgh | bcpr.cy | ccy | cbc | bcid.c |
| Blacksod Point | d | d | d | d |
| Malin Head | d | r | d | d |
| Aldergrove | ccd.d. | d.rr.r.d. | d | crrcid. |
| Birr Castle | f | c | * | d |
| Valentia Obsy. | r | r | d | r |
| Roches Point | d | d | d | c |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 17th October 1942.

| Districts | Forecast |
|---|---|
| 1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands | Moderate Westerly winds; dull; a little local drizzle or light rain occasionally; patches of hill and coast fog likely near the South Coast; close. |
| 5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands | Moderate West and Southwest winds, fresh at times on the coast; dull; occasional drizzle or light rain with heavier rain in hill districts; some coastal and hill fog: close. |
| 10 N.E. England, 11 S.E. Scotland | As 1-4. |
| 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland | Moderate Southwest winds, increasing fresh to strong; dull; occasional rain; hill fog; close |
| 14 Mid Scotland, 15 N.E. Scotland | Wind light variable becoming Southwest; cloudy becoming dull with occasional rain; cold at first becoming milder. |
| 16 Orkneys and Shetlands | As 14-15. |
| 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland | As 5-9. |

### GENERAL INFERENCE

Pressure remains high to southwest of the British Isles with an almost stationary shallow trough across Scotland. A very deep depression will approach Iceland from the southwest. Dull close conditions will persist with some occasional drizzle or light rain chiefly in the West and North.

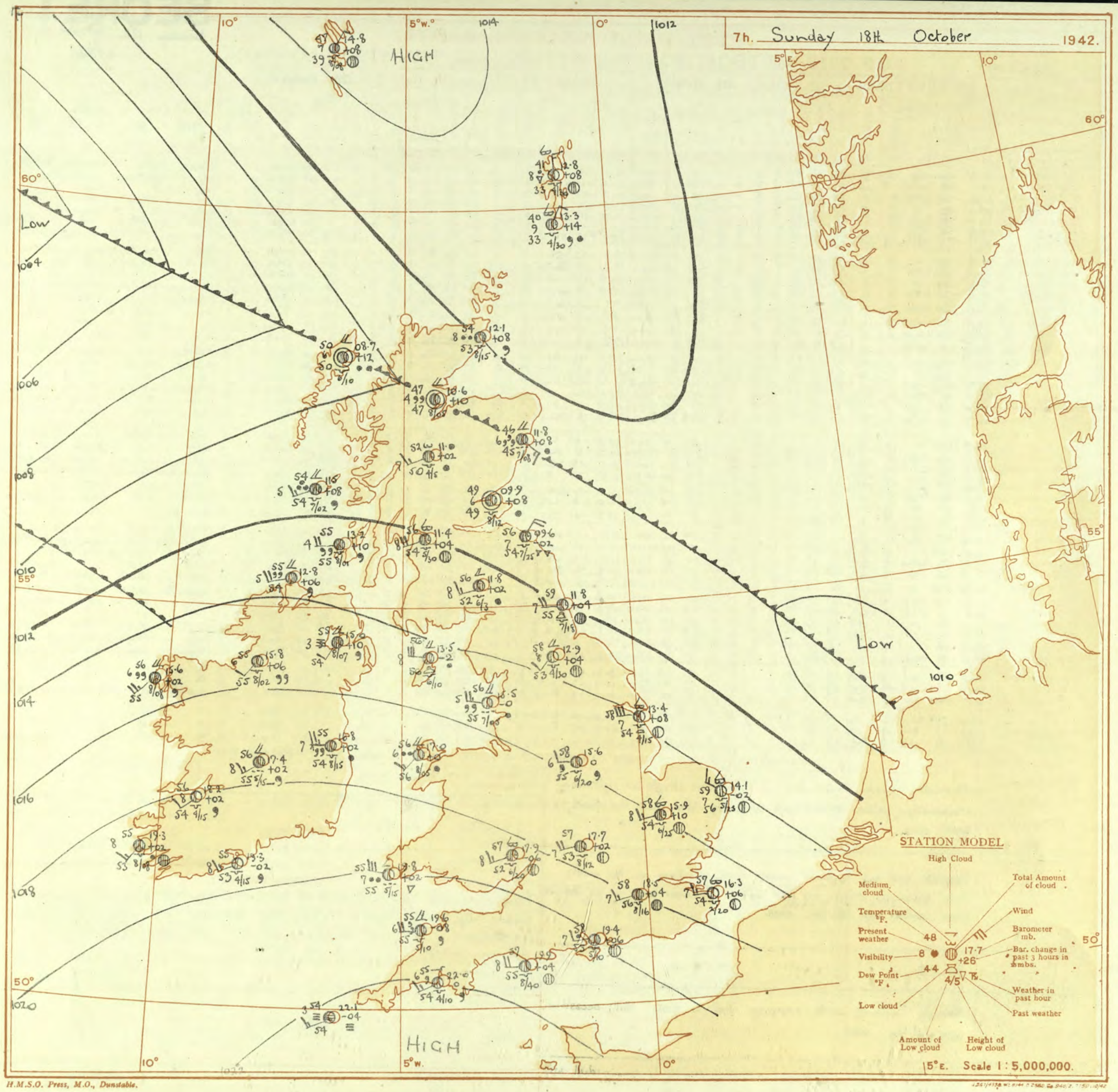
### FURTHER OUTLOOK

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

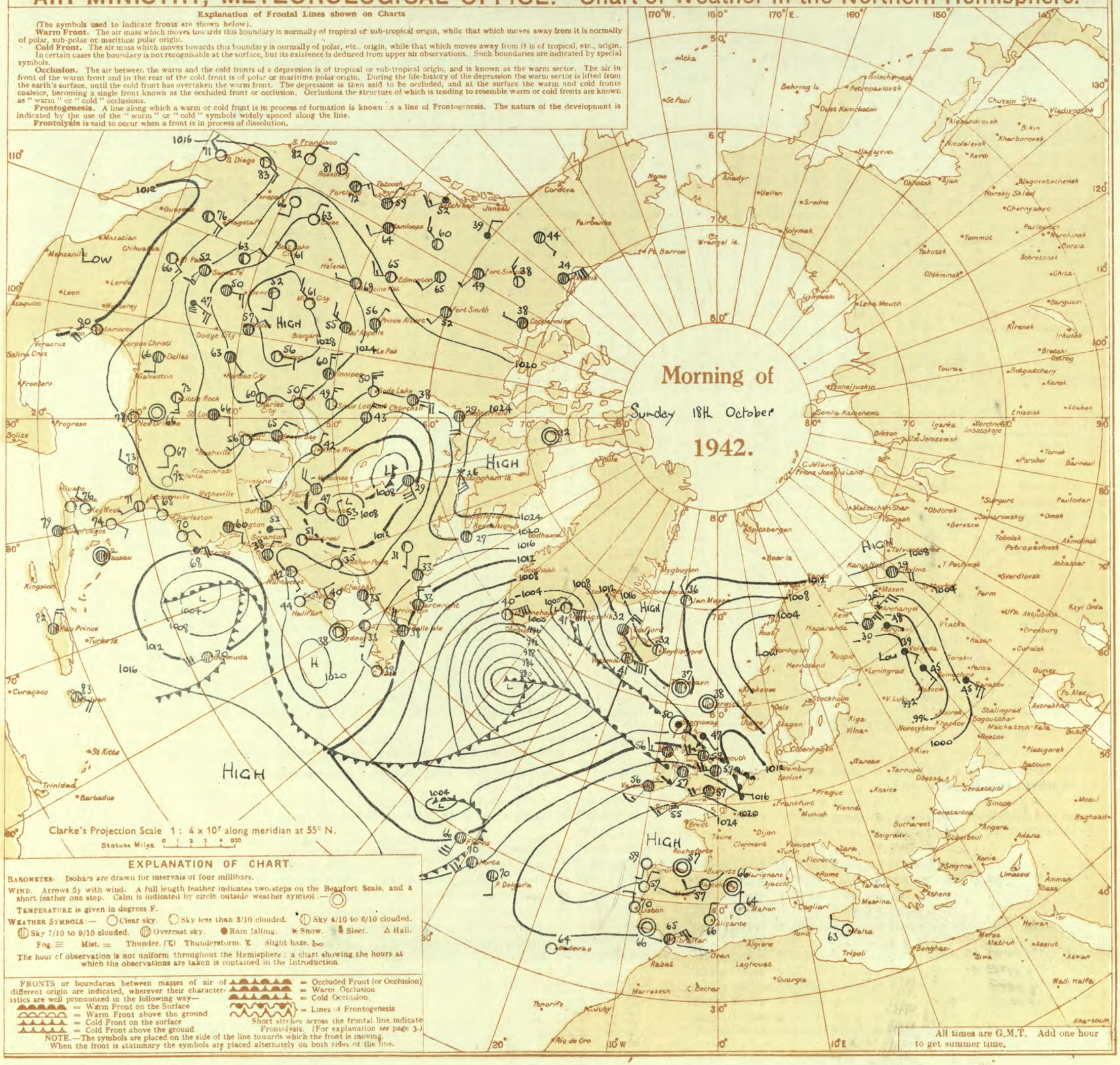
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Sunday 18th October 1942

No. 29550

## OBSERVATIONS at 1 hr. G.M.T. 18th October

| District | Stations | Height above M.S.L. in feet. | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | °F. Dew Point. (8) | Visibility. 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base. (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 19.1 | -10 | W | 4 | $Z_0$ | 57 | 92 | 55 | 6 | 5 | 7 | - | 7-8 | 9+ | 1200 |
| | S. Farnborough | 226 | 18.9 | -6 | W | 4 | C | 57 | 85 | 53 | 7 | 5 | 2 | - | 7-8 | 10 | 900 |
| | Boscombe Down | 417 | 20.5 | -6 | W'N | 4 | C | 57 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 600 |
| | Thorney Island | 10 | 19.9 | 0 | W | 4 | 0 | 57 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Lympne .. | 283 | 18.5 | -10 | WSW | 2 | $Z_0$ | 55 | 92 | 53 | 6 | 5 | - | - | 9+ | 9+ | 1800 |
| | Manston ... | 154 | 17.3 | -8 | W'S | 3 | $id_0$ | 58 | 85 | 53 | 7 | 5 | 2 | - | 7-8 | 10 | 3800 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 16.6 | -6 | SW'W | 4 | c/+ | 57 | 97 | 56 | 6 | 5 | - | - | 9+ | 10 | 1700 |
| | Gorleston ... | 5 | 14.9 | -8 | WNW | 3 | $ir_0$ | 57 | 92 | 55 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Mildenhall ... | 15 | 15.7 | -6 | WSW | 4 | rr | 57 | 97 | 56 | 7 | 5 | 2 | - | 7-8 | 10 | 1800 |
| | Cranwell ... | 203 | 14.3 | -6 | W'S | 3 | $Z_0$ | 57 | 97 | 56 | 6 | 5 | 2 | - | 7-8 | 10 | 1600 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 18.3 | 0 | W'S | 4 | C | 56 | 92 | 54 | 7 | 5 | 7 | 8 | 2-3 | 9 | 4400 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 21.5 | -2 | W | 4 | $d_0d_0$ | 56 | 97 | 55 | 6 | 5 | 2 | - | 7-8 | 10 | 800 |
| | Bristol ... | 209 | 20.4 | -8 | WSW | 6 | $ir_0$ | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 300 |
| | Portland Bill ... | 32 | 21.1 | -6 | SW | 4 | 0 | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 82 | 23.5 | -6 | NW'W | 3 | c/d | 55 | 97 | 55 | 6 | 5 | - | - | 7-8 | 9+ | 1500 |
| | The Lizard ... | 240 | 23.5 | -4 | WNW | 4 | $id_0$ | 55 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 23.9 | -6 | SW'W | 3 | c/+ | 55 | 97 | 55 | 3 | - | - | - | 10 | 10 | 4150 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 21.0 | +2 | W'N | 6 | bcq | 56 | 97 | 56 | 7 | 8 | - | - | 4-6 | 4-6 | 2500 |
| 7 | Holyhead (Valley) | 32 | 17.7 | +4 | SW | 3 | c | 57 | 97 | 56 | 7 | 5 | - | - | 10 | 10 | 1700 |
| | Chester (Sealand) | 16 | 16.2 | +6 | W'N | 3 | c | 61 | 85 | 56 | 7 | 5 | - | - | 9+ | 9+ | 2600 |
| 8 | Manchester ... | 235 | 16.1 | +2 | WSW | 4 | ++ | 58 | 97 | 57 | 4 | - | 2 | - | 10 | 10 | 600 |
| 10 | Spurn Head ... | 29 | 13.0 | -6 | W | 5 | c | 57 | 92 | 54 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Catterick ... | 175 | 12.6 | 0 | W | 3 | b-bc | 59 | 85 | 55 | 7 | 5 | 3 | - | 2-3 | 2-3 | 1500 |
| | Tynemouth ... | 108 | 12.0 | -4 | W | 4 | c | 59 | 85 | 55 | 7 | 8 | - | - | 9+ | 9+ | 2500 |
| 11 | St. Abbs Head | 280 | 10.4 | 0 | NW | 2 | c/f | 54 | 97 | 53 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Leuchars ... | 36 | 10.0 | -6 | – | 0 | DR | 49 | 97 | 49 | 4 | 5 | - | - | 10 | 10 | 200 |
| 12 | Renfrew (Abbots I.) | 19 | 11.2 | 0 | WSW | 3 | c/d | 57 | 92 | 55 | 7 | 5 | 2 | - | 9+ | 10 | 1000 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 12.5 | +8 | W'N | 4 | $r_0r_0$ | 58 | 97 | 57 | 7 | - | 2 | - | 10 | 10 | 2000 |
| 13A | Tiree ... ... | 22 | 10.7 | +2 | WSW | 5 | d+ | 55 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 220 |
| 13B | Stornoway ... | 80 | 10.7 | -2 | – | 0 | $r_0r_0$ | 50 | 97 | 50 | 5 | 5 | 2 | - | 9 | 10 | 1000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | | | | | | | | | | | | | | | |
| | Wick ... | 114 | 11.3 | -2 | SE | 1 | $r_0r_0$ | 46 | 85 | 43 | 6 | 5 | 2 | - | 7-8 | 10 | 3100 |
| 16 | Sumburgh .. | 19 | 12.2 | 0 | N | 2 | bc | 41 | 75 | 34 | 9 | 5 | 3 | - | 4-6 | 4-6 | 2500 |
| 17 | Blacksod Point | 18 | 15.5 | -6 | WSW | 5 | id | 55 | 97 | 54 | 6 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head ... | 84 | 12.9 | -2 | W | 3 | c/d | 56 | 97 | 55 | 5 | - | 2 | - | 10 | 10 | 800 |
| | Aldergrove ... | 268 | 15.3 | +2 | SW | 2 | c/d | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 21.0 | -2 | SW'S | 3 | C | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | 21.0 | -2 | WSW | 4 | c | 55 | 92 | 53 | 8 | 5 | - | - | 9 | 9 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 18th October

| Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | °F. Dew Point. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea. 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 18.1 | +8 | WSW | 2 | C | 57 | 97 | 54 | 8 | 5 | 3 | - | 9 | 9+ | 1500 | 1 | * |
| Croydon ... | 18.5 | +4 | W'S | 3 | C | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 1600 | 0 | * |
| S. Farnborough | 18.3 | +2 | WNW | 4 | C | 58 | 85 | 54 | 7 | 5 | - | - | 10 | 10 | 1200 | 0 | * |
| Boscombe Down | 19.5 | +6 | W'N | 3 | C | 55 | 92 | 53 | 7 | 5 | - | - | 10 | 10 | 1000 | 0 | * |
| Thorney Island | 19.4 | +6 | W | 2 | $ir_0$ | 58 | 92 | 55 | 7 | 5 | - | - | 7-8 | 10 | 1000 | 0 | * |
| Lympne .. | 17.5 | +8 | W | 2 | c | 57 | 92 | 55 | 7 | 5 | 7 | - | 4-6 | 9+ | 1800 | 1 | § |
| Manston ... | 16.3 | +6 | W | 3 | b-bc | 57 | 92 | 54 | 7 | 5 | 7 | - | 1 | 2-3 | 2000 | 1 | * |
| Shoeburyness ... | 17.0 | +8 | W | 3 | bc | 57 | 85 | 54 | 6 | 7 | - | - | 4-6 | 4-6 | 4000 | 1 | * |
| Felixstowe ... | 18.7 | +2 | W'S | 4 | c | 59 | 85 | 55 | 8 | 5 | 7 | 6 | 2-3 | 9+ | 2000 | 1 | |
| Gorleston ... | 14.1 | -2 | NW | 3 | c-bc | 59 | 92 | 56 | 7 | 5 | 7 | - | 7-8 | 7-8 | 2500 | 0 | 3 |
| Mildenhall ... | 15.9 | +10 | WSW | 3 | c | 58 | 85 | 54 | 8 | 5 | 7 | - | 9 | 9+ | 2500 | 1 | * |
| Cranwell ... | 14.3 | +2 | W | 4 | $Z_0$ | 58 | 92 | 56 | 6 | 5 | 7 | - | 7-8 | 10 | 2000 | 1 | * |
| Birmingham ... | 16.7 | 0 | WSW | 3 | 0 | 56 | 92 | 54 | 8 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 17.7 | +2 | WSW | 3 | c | 57 | 85 | 53 | 7 | 5 | - | - | 10 | 10 | 1200 | 0 | * |
| Ross-on-Wye | 17.9 | -6 | W'S | 3 | c | 57 | 85 | 52 | 8 | 5 | 7 | - | 9 | 9+ | 2000 | 0 | * |
| Hartland Point | 19.6 | -8 | W | 4 | id | 55 | 97 | 55 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 | 0 | 4 |
| Bristol ... | 20.4 | +4 | W'N | 3 | $ir_0$ | 55 | 97 | 54 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Portland Bill ... | 19.9 | +4 | W | 4 | c | 57 | 92 | 55 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 5 |
| Plymouth ... | 22.0 | 0 | W'S | 3 | $id_0$ | 55 | 97 | 54 | 6 | 5 | 3 | 2 | 4-6 | 7-8 | 1000 | 1 | 3 |
| The Lizard ... | 21.7 | -6 | WNW | 5 | $d_0d_0$ | 55 | 97 | 53 | 4 | 5 | - | - | 10 | 10 | 600 | 1 | 4 |
| Scilly (St. Mary's) | 22.1 | -4 | SW'W | 3 | c/f | 54 | 97 | 54 | 3 | - | - | - | 10 | 10 | 4150 | 1 | 3 |
| Guernsey ... | | | | | | | | | | | | | | | | | |
| Pembroke ... | 19.8 | +2 | W'N | 6 | $r_0r_0$ | 55 | 97 | 53 | 7 | 6 | 1 | - | 4-6 | 7-8 | 1500 | 1 | |
| Holyhead (Valley) | 17.0 | 0 | SW'S | 3 | $r_0r_0$ | 56 | 97 | 56 | 6 | - | 2 | - | 10 | 10 | 500 | 1 | 3 |
| Chester (Sealand) | 16.0 | -2 | WSW | 3 | rr | 59 | 85 | 55 | 6 | 5 | 2 | - | 9 | 10 | 1500 | 1 | * |
| Manchester ... | 15.8 | -2 | WSW | 3 | $ir_0$ | 57 | 92 | 55 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| Spurn Head ... | 13.4 | +8 | W | 6 | c-bc | 58 | 85 | 54 | 7 | 7 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 3 |
| Catterick ... | 12.9 | +4 | SW | 2 | c-bc | 58 | 85 | 54 | 8 | 5 | 2 | - | 4-6 | 7-8 | 3000 | 0 | * |
| Tynemouth ... | 11.8 | +4 | W | 4 | c | 59 | 85 | 55 | 7 | 8 | - | - | 9+ | 9+ | 1800 | 1 | 3 |
| St. Abbs Head | 09.6 | -2 | NE | 4 | c/pr | 56 | 92 | 54 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| Leuchars ... | 09.9 | +8 | – | 0 | c/f | 49 | 97 | 49 | 6 | 5 | - | - | 10 | 10 | 1200 | 1 | * |
| Renfrew (Abbots I.) | 11.4 | +4 | WSW | 4 | C | 56 | 92 | 54 | 8 | 5 | 7 | - | 7-8 | 9+ | 3000 | 1 | * |
| Eskdalemuir ... | 11.8 | +2 | WSW | 3 | C | 56 | 85 | 52 | 8 | 5 | 2 | - | 9 | 10 | 700 | 1 | |
| Point of Ayre... | 13.5 | -2 | W'N | 6 | c | 56 | 97 | 56 | 8 | 8 | 2 | - | 9 | 10 | 1000 | 1 | 5 |
| Tiree ... ... | 11.5 | +8 | W'S | 3 | ++ | 54 | 97 | 54 | 5 | 5 | 2 | - | 9+ | 10 | 200 | 1 | |
| Stornoway ... | 08.7 | +12 | – | 0 | c/+ | 50 | 97 | 50 | 6 | 5 | 2 | - | 9 | 10 | 1000 | 1 | 1 |
| Dalwhinnie ... | 11.0 | +2 | WSW | 3 | C | 52 | 92 | 50 | 7 | 5 | 3 | - | 4-6 | 9 | 2500 | 1 | * |
| Aberdeen † ... | 11.8 | +8 | ESE | 3 | dd | 46 | 97 | 45 | 6 | 6 | 2 | - | 9+ | 10 | 800 | 1 | 3 |
| Wick ... | 12.1 | +8 | SE | 1 | $d_0d_0$ | 54 | 92 | 53 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Sumburgh .. | 13.3 | +4 | NNE | 2 | c/d | 40 | 75 | 33 | 9 | 5 | 7 | - | 4-6 | 9+ | 3000 | 1 | 4 |
| Blacksod Point | 15.6 | +2 | SW | 3 | $d_0d_0$ | 56 | 97 | 55 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 4 |
| Malin Head ... | 12.8 | +6 | W | 4 | $d_0d_0$ | 55 | 97 | 54 | 5 | - | 2 | - | 10 | 10 | 800 | 2 | 3 |
| Aldergrove ... | 15.0 | +10 | SSW | 2 | df | 55 | 97 | 54 | 3 | - | 2 | - | 10 | 10 | 700 | 1 | * |
| Birr Castle ... | 17.4 | +2 | WSW | 3 | c | 56 | 97 | 55 | 8 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 19.8 | +2 | SSW | 3 | c/+ | 55 | 97 | 54 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 3 |
| Roches Point | 19.3 | -2 | WSW | 3 | bc | 55 | 92 | 53 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | 4 |

## PAST 24 HOURS.

| Stations | Temperature. Max. Day 7h–18h °F. (33) | Temperature. Min. Night 18h–7h °F (34) | Temperature. Min. on Grass °F. (35) | Rainfall. Day 7h–18h mm. (36) | Rainfall. Night 18h–7h mm. (37) | Sunshine 17th. Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 60 | 57 | 55 | Tr | - | 0.2 |
| Croydon ... | 59 | 57 | 55 | 0.1 | Tr | 0.6 |
| S. Farnborough | 61 | 57 | 54 | - | - | 0.3 |
| Boscombe Down | 61 | 54 | 52 | Tr | - | 0.3 |
| Thorney Island | 59 | 55 | 55 | - | Tr | * |
| Lympne .. | 59 | 54 | 51 | Tr | - | 1.8 |
| Manston ... | 60 | 56 | 53 | Tr | 1 | 0.9 |
| Shoeburyness ... | 63 | 56 | 53 | Tr | Tr | 1.2 |
| Felixstowe ... | 61 | 56 | 54 | 0.1 | 4 | 0.9 |
| Gorleston ... | 59 | 57 | 48 | 0.4 | Tr | 0.0 |
| Mildenhall ... | 60 | 56 | 52 | 0.1 | 5 | 0.4 |
| Cranwell ... | 61 | 55 | 55 | - | 6 | 0.0 |
| Birmingham ... | 60 | 56 | 54 | 1 | 0.1 | 0.8 |
| Upper Heyford | 61 | 50 | 52 | Tr | Tr | * |
| Ross-on-Wye | 63 | 56 | 53 | - | - | 0.6 |
| Hartland Point | 57 | 54 | 51 | 0.5 | 1 | 0.1 |
| Bristol ... | 61 | 55 | 54 | 0.1 | Tr | 0.1 |
| Portland Bill ... | 58 | 54 | * | - | - | * |
| Plymouth ... | 58 | 54 | 52 | 0.1 | 0.3 | 0.0 |
| The Lizard ... | 58 | 54 | * | 0.5 | 1 | 0.0 |
| Scilly (St. Mary's) | 60 | 54 | * | Tr | 2 | 0.8 |
| Guernsey ... | | | | | | |
| Pembroke ... | 57 | 53 | * | 1 | 0.1 | 0.2 |
| Holyhead (Valley) | 59 | 55 | 53 | Tr | 3 | * |
| Chester (Sealand) | 63 | 58 | 55 | Tr | 1 | 0.5 |
| Manchester ... | 59 | 56 | 56 | 6 | 18 | * |
| Spurn Head ... | 58 | 56 | * | * | 0.2 | 0.0 |
| Catterick ... | 61 | 58 | 52 | Tr | - | 0.5 |
| Tynemouth ... | 59 | 58 | 55 | 0.2 | - | * |
| St. Abbs Head | 53 | 50 | * | 4 | 1 | * |
| Leuchars ... | 53 | 48 | 48 | 3 | 3 | 0.0 |
| Renfrew (Abbots I.) | 57 | 55 | 52 | 1 | 1 | 0.0 |
| Eskdalemuir ... | 56 | 54 | 54 | 5 | 1 | 0.0 |
| Point of Ayre... | 58 | 55 | - | 5 | 3 | 0.6 |
| Tiree ... ... | 56 | 54 | * | 3 | 4 | 0.6 |
| Stornoway ... | 49 | 48 | * | 5 | 8 | 0.0 |
| Dalwhinnie ... | 48 | 46 | 46 | 5 | 7 | 0.0 |
| Aberdeen † ... | 47 | 45 | 44 | 5 | 15 | 0.0 |
| Wick ... | 48 | 44 | 42 | 0.3 | 7 | * |
| Sumburgh .. | 47 | 37 | 33 | Tr | Tr | 2.0 |
| Blacksod Point | 58 | 55 | * | 3 | 3 | * |
| Malin Head ... | 57 | 55 | 55 | 1 | 2 | 0.0 |
| Aldergrove ... | 58 | 54 | 54 | 6 | 3 | 0.0 |
| Birr Castle ... | 62 | 55 | 53 | 0.1 | 0.2 | 0.0 |
| Valentia Obsy. | 59 | 55 | 54 | 0.2 | 0.1 | 0.0 |
| Roches Point | 59 | 55 | * | 0.2 | 0.1 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 17th. October | IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 109 | 57 | 02952 | 00026 | 52 | 02853 | 00028 |
| 115 | 52 | 10844 | 24226 | 52 | 62735 | 08368 |
| 203 | | | | | | |
| 206 | 62 | 64734 | 16368 | 02 | 64428 | 00068 |
| 210 | 62 | 62834 | 18168 | 5- | 52628 | 08368 |
| 220 | | | | | | |
| 230 | | | | 5- | 51528 | 18258 |
| 245 | 62 | 52527 | 06368 | 62 | 58528 | 04268 |
| 260 | 5- | 62648 | 20268 | 5- | 52538 | 20258 |
| 278 | 57 | 02856 | 24468 | 62 | 52626 | 23368 |
| 279 | 5- | 05638 | 53558 | 5- | 21416 | 22458 |
| 285 | 5- | 58528 | 24668 | | | |
| 288 | 57 | 02955 | 54467 | 57 | 02864 | 16228 |
| 578 | 5- | 52518 | 24258 | 5- | 51648 | 24358 |
| 301 | 52 | 52616 | 23558 | 5- | 52528 | 24468 |
| 321 | 5- | 05648 | 24328 | 57 | 62657 | 23268 |
| 299 | 5- | 62548 | 22368 | 5- | 02757 | 24217 |
| 292 | 57 | 02845 | 22467 | 53 | 02844 | 22325 |
| 310 | -- | 46109 | 20349 | | | |
| 614 | 57 | 02755 | 22227 | 5- | 22656 | 57466 |

| 01h. G.M.T. 18th. October | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 109 | 02 | 62758 | 00068 | 57 | 02854 | 05227 |
| 115 | | | | | | |
| 203 | 5- | 03838 | 16458 | | | |
| 206 | 02 | 62428 | 00068 | 02 | 52428 | 00068 |
| 210 | 62 | 64634 | 08258 | | | |
| 220 | | | | | | |
| 230 | 5- | 02838 | 16358 | 5- | 51848 | 20268 |
| 245 | 62 | 52527 | 28168 | 02 | 54528 | 07358 |
| 260 | 02 | 22648 | 20368 | 57 | 22646 | 20468 |
| 278 | 5- | 03748 | 25458 | 5- | 51848 | 12358 |
| 279 | 5- | 05648 | 22468 | 51 | 05636 | 20428 |
| 285 | | | | | | |
| 288 | 50 | 01752 | 57412 | 57 | 02857 | 22317 |
| 578 | | | | 5- | 21618 | 20158 |
| 301 | 5- | 05648 | 28468 | 62 | 52527 | 26568 |
| 321 | 57 | 05654 | 22426 | 5- | 02848 | 25328 |
| 299 | 50 | 01743 | 24213 | 57 | 01754 | 24315 |
| 292 | 50 | 01744 | 23364 | 5- | 02846 | 24318 |
| 310 | | | | | | |
| 614 | 5- | 51456 | 22366 | 5- | 51656 | 24158 |

| 13h. G.M.T. 17th. October | IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 333 | 5- | 02835 | 21458 | 57 | 02746 | 22468 |
| 334 | | | | -- | 54437 | 26458 |
| 340 | 53 | 02945 | 22327 | 57 | 22946 | 23367 |
| 136 | 57 | 05654 | 20368 | 57 | 05646 | 20328 |
| 336 | 62 | 62626 | 24568 | | | |
| 350 | 51 | 02756 | 22428 | 57 | 02745 | 22358 |
| 368 | 5- | 54527 | 20558 | 52 | 51626 | 24338 |
| 379 | 50 | 02747 | 22428 | 57 | 22736 | 22468 |
| 390 | 5- | 05555 | 20427 | 57 | 05546 | 22367 |
| 382 | 53 | 02836 | 56557 | 57 | 02864 | 56526 |
| 438 | 54 | 02753 | 23415 | 02 | 21638 | 24558 |
| 430 | 52 | 02756 | 21428 | 57 | 02636 | 24427 |
| 409 | 5- | 41408 | 23458 | 5- | 41418 | 23458 |

| 01h. G.M.T. 18th. October | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|
| 333 | 5- | 22978 | 22468 | 5- | 22735 | 22268 |
| 334 | | | | | | |
| 340 | 57 | 02754 | 23325 | 57 | 25834 | 23467 |
| 136 | 5- | 02744 | 23468 | 59 | 02763 | 23427 |
| 336 | | | | | | |
| 350 | 57 | 02745 | 24426 | 57 | 02846 | 21227 |
| 368 | | | | 57 | 21736 | 24458 |
| 379 | 57 | 05645 | 22328 | 5- | 02848 | 22228 |
| 390 | 57 | 05544 | 20327 | 57 | 02743 | 22426 |
| 382 | 57 | 02754 | 24426 | 52 | 51725 | 23328 |
| 438 | 5- | 05648 | 22528 | 52 | 02746 | 24428 |
| 430 | 5- | 02748 | 24428 | 5- | 02748 | 24358 |
| 409 | 5- | 51518 | 22458 | 5- | 57108 | 23458 |

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 18th October
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 * .. ... | cq.ir.c | ccm. | cm.c | |
| Croydon ... | ccm.c | cid.cm. | cir.cm.c | |
| Greenwich ... | c | cd.c | cbc | Kew 24 hours ended 7h. Max. Time 0.1 11-19h 17th |
| Camden Square | c | c | * | |
| *Kensington ... | bcc | bcc | * | |
| Hampstead ... | bc | or | o | Min. Time 0.1 0-7h 18th |

| 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 ... ... | 60 | 57 | 55 | Tr | - | 0.2 | * | * |
| Croydon ... | 59 | 57 | 55 | 0.1 | Tr | 0.6 | * | * |
| Greenwich .. | 59 | 57 | 52 | Tr | - | 0.4 | 83 | 84 |
| Westminster .. | 60 | 54 | 54 | - | - | | 90 | 89 |
| Regents Park .. | | | | | | | | |
| Camden Square | 59 | 54 | 54 | - | - | * | * | 86 |
| Kensington .. | 60 | 54 | 52 | - | - | | 89 | 87 |
| Hampstead .. | 58 | 55 | 50 | - | Tr | | * | 91 |

BRITISH SECTION

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

**SECRET**

Monday 19th October 1942

No. 29551

## OBSERVATIONS at 13h. G.M.T. 18th October

| 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) | 18·2 | −2 | W'N | 3 | c | 61 | 75 | 53 | 8 | s | – | – | 9+ | 9+ | 2500 |
| | Croydon ... | 18·9 | −2 | W'S | 3 | c | 61 | 75 | 54 | 6 | s | 1 | – | 9+ | 10 | 1600 |
| | S. Farnborough | 18·4 | −10 | W'N | 4 | c | 62 | 75 | 52 | 8 | s | 3 | – | 7-8 | 9 | 1600 |
| | Boscombe Down | 19·5 | −4 | W'N | 4 | c | 59 | 85 | 53 | 8 | s | 7 | – | 7-8 | 9+ | 1600 |
| | Thorney Island | 19·0 | −6 | W'N | 4 | c | 61 | 85 | 56 | 8 | s | 3 | – | 7-8 | 9 | 2500 |
| | Lympne ... | 17·9 | −2 | W'N | 4 | c | 60 | 85 | 54 | 8 | s | 3 | – | 9 | 9+ | 1800 |
| | Manston ... | 17·1 | +2 | W'S | 4 | z₀ | 61 | 85 | 56 | 5 | s | 7 | – | 7-8 | 9+ | 1100 |
| 2 | Shoeburyness ... | 17·4 | 0 | W'N | 4 | c | 61 | 85 | 56 | 6 | s | – | – | 10 | 10 | 2500 |
| | Felixstowe ... | 15·9 | −2 | W | 4 | c | 62 | 85 | 58 | 8 | s | 7 | – | 4-6 | 9+ | 1200 |
| | Gorleston ... | 14·8 | +2 | NW | 4 | c | 63 | 75 | 56 | 7 | 8 | 7 | – | 7-8 | 9+ | 1800 |
| | Mildenhall ... | 16·5 | +2 | W'S | 4 | c | 60 | 85 | 56 | 8 | s | – | – | 10 | 10 | 2000 |
| | Cranwell ... | 15·4 | +6 | W'N | 4 | c | 60 | 85 | 55 | 7 | s | 7 | – | 7-8 | 9+ | 1800 |
| 3 | Birmingham ... | 17·4 | +2 | W | 3 | c | 60 | 85 | 55 | 8 | s | 2 | – | 7-8 | 10 | 1500 |
| | Upper Heyford | 17·6 | +6 | W'N | 4 | c | 61 | 75 | 54 | 7 | s | 3 | – | 9+ | 9+ | 1500 |
| 4 | Ross-on-Wye | 18·4 | +4 | W'S | 3 | c | 61 | 75 | 55 | 8 | s | 7 | – | 2-3 | 9 | 2500 |
| 5 | Hartland Point | 20·6 | −2 | W | 3 | c-bc | 56 | 97 | 56 | 6 | s | – | – | 7-8 | 7-8 | 1500 |
| | Bristol ... | 20·1 | −2 | WNW | 5 | c | 57 | 92 | 55 | 7 | s | 3 | – | 9+ | 9+ | 1500 |
| | Portland Bill ... | 20·6 | +2 | W | 4 | c | 59 | 85 | 55 | 8 | s | 4 | – | 7-8 | 10 | 4000 |
| | Plymouth ... | 21·8 | −4 | W'N | 3 | c-bc | 60 | 85 | 55 | 8 | s | – | – | 7-8 | 7-8 | 2000 |
| | The Lizard ... | 22·4 | 0 | WNW | 4 | z₀ | 58 | 97 | 58 | 5 | s | – | – | 7-8 | 7-8 | 1000 |
| | Scilly (St. Mary's) | 22·7 | −2 | SW | 3 | f | 59 | 92 | 57 | 3 | – | – | – | 10 | 10 | <150 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 20·5 | +2 | W'N | 5 | c | 56 | 97 | 55 | 8 | 8 | – | – | 10 | 10 | 2000 |
| 7 | Holyhead (Valley) | 18·4 | +6 | SW | 4 | ir₀ | 58 | 92 | 56 | 7 | s | 7 | – | 7-8 | 10 | 1500 |
| | Chester (Sealand) | 16·8 | 0 | WNW | 2 | c | 63 | 85 | 57 | 8 | s | 3 | – | 7-8 | 9+ | 2500 |
| 8 | Manchester ... | 17·0 | +6 | W | 4 | z₀ | 57 | 92 | 55 | 6 | s | 7 | – | 7-8 | 10 | 900 |
| 10 | Spurn Head ... | 14·4 | +6 | WNW | 5 | d | 58 | 85 | 52 | 7 | 7 | 2 | – | 4-6 | 10 | 1500 |
| | Catterick ... | 14·7 | +8 | W'N | 3 | r₀r₀ | 59 | 85 | 55 | 6 | s | 7 | – | 9 | 10 | 900 |
| | Tynemouth ... | 13·3 | +6 | W | 4 | e/pr | 60 | 85 | 55 | 7 | 8 | – | – | 9 | 9 | 2000 |
| 11 | St. Abbs Head | 12·9 | +16 | NW | 1 | rr | 51 | 97 | 51 | 5 | s | – | – | 10 | 10 | 2000 |
| | Leuchars ... | 13·6 | +16 | – | 0 | d₀d₀ | 51 | 97 | 50 | 4 | s | – | – | 10 | 10 | 100 |
| 12 | Renfrew (Abbots I.) | 14·4 | +14 | W | 2 | id₀ | 58 | 85 | 55 | 7 | s | 2 | – | 4-6 | 10 | 800 |
| | Eskdalemuir ... | 13·5 | +6 | W'S | 3 | c | 57 | 85 | 53 | 8 | s | 3 | – | 7-8 | 9+ | 700 |
| | Point of Ayre ... | 15·8 | +6 | W'N | 5 | c | 58 | 97 | 56 | 8 | 6 | 2 | – | 9 | 10 | 1000 |
| 13A | Tiree ... ... | 13·2 | +6 | WSW | 4 | df | 54 | 97 | 54 | 2 | s | – | – | 10 | 10 | <150 |
| 13B | Stornoway ... | 11·5 | +10 | – | 0 | rr | 53 | 97 | 52 | 7 | s | 2 | – | 9 | 10 | 1000 |
| 15 | Dalwhinnie ... | 13·6 | +16 | SW | 2 | ir | 54 | 92 | 52 | 7 | s | 2 | – | 4-6 | 10 | 1500 |
| | Aberdeen ... | 14·4 | +12 | SE | 2 | rr | 47 | 97 | 47 | 5 | 6 | 2 | – | 9 | 10 | 800 |
| | Wick ... | 14·1 | +8 | ESE | 3 | r₀r₀ | 47 | 92 | 45 | 6 | s | – | – | 10 | 10 | 500 |
| 16 | Sumburgh ... | 14·8 | +6 | N'W | 1 | c | 45 | 65 | 35 | 9 | s | 7 | 8 | 4-6 | 9+ | 2500 |
| 17 | Blacksod Point | 17·3 | +10 | SW | 4 | d₀d₀ | 57 | 97 | 56 | 7 | 6 | 2 | – | 4-6 | 10 | 800 |
| 18 | Malin Head ... | 14·5 | +10 | W'S | 5 | c | 57 | 97 | 56 | 7 | s | 2 | – | 7-8 | 10 | 800 |
| | Aldergrove ... | 16·8 | +14 | SW | 2 | id₀ | 58 | 97 | 57 | 8 | – | 2 | – | 10 | 10 | 300 |
| 19 | Birr Castle ... | 18·7 | +6 | WSW | 2 | c | 61 | 85 | 56 | 8 | s | – | – | 10 | 10 | 2500 |
| 20 | Valentia Obsy. | 20·6 | +2 | S'E | 4 | id₀ | 57 | 97 | 56 | 7 | s | – | – | 10 | 10 | 1500 |
| | Roches Point | 20·5 | +6 | W | 2 | c | 57 | 92 | 55 | 8 | s | – | – | 9+ | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 18th October

| 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) | 19·1 | +12 | WSW | 3 | z₀ | 59 | 85 | 54 | 6 | s | – | – | 9+ | 9+ | 2500 | 1 | • |
| | Croydon ... | 19·3 | +4 | W | 2 | c | 52 | 86 | 46 | 5 | s | – | – | 10 | 10 | 1800 | 0 | • |
| | S. Farnborough | 19·4 | +10 | WSW | 2 | c/f | 58 | 85 | 54 | 6 | s | 7 | – | 9 | 9+ | 2000 | 0 | • |
| | Boscombe Down | 20·5 | +10 | NW'W | 3 | z₀ | 56 | 92 | 54 | 6 | s | – | – | 10 | 10 | 1200 | 0 | • |
| | Thorney Island | 19·7 | +6 | NW | 4 | c | 58 | 92 | 56 | 8 | s | 7 | – | 9+ | 10 | 1100 | 0 | • |
| | Lympne ... | 18·7 | +10 | WNW | 3 | z₀ | 57 | 85 | 55 | 6 | s | 3 | – | 2-3 | 9 | 2200 | 0 | § |
| | Manston ... | 17·7 | +6 | W | 2 | z₀ | 60 | 85 | 54 | 5 | s | – | – | 10 | 10 | 1000 | 1 | • |
| 2 | Shoeburyness ... | 18·3 | +10 | W'N | 3 | c-bc | 61 | 85 | 55 | 5 | s | – | – | 7-8 | 7-8 | 2100 | 0 | • |
| | Felixstowe ... | 17·0 | +10 | W'S | 3 | c | 60 | 85 | 54 | 7 | s | 7 | – | 9+ | 10 | 2500 | 0 | 2 |
| | Gorleston ... | 17·1 | +16 | NW | 3 | ir₀ | 59 | 92 | 57 | 6 | s | – | – | 10 | 10 | 900 | 1 | 2 |
| | Mildenhall ... | 17·6 | +12 | W'N | 3 | z₀ | 60 | 92 | 57 | 6 | s | 7 | – | 10 | 10 | 2000 | 1 | • |
| | Cranwell ... | 17·2 | +12 | W | 3 | z₀ | 59 | 85 | 55 | 5 | s | 7 | – | 4-6 | 9 | 2000 | 1 | • |
| 3 | Birmingham ... | 18·9 | +14 | W | 3 | z₀ | 60 | 85 | 55 | 6 | s | – | – | 10 | 10 | 800 | 1 | • |
| | Upper Heyford | 18·8 | +10 | W | 3 | ir₀ | 59 | 85 | 55 | 6 | s | 7 | – | 9+ | 10 | 1600 | 0 | • |
| 4 | Ross-on-Wye | 19·8 | +12 | SW'W | 1 | c | 59 | 92 | 56 | 7 | s | 7 | – | 7-8 | 9 | 2500 | 0 | • |
| 5 | Hartland Point | 21·3 | +4 | W | 3 | cif | 55 | 97 | 55 | 6 | s | 2 | – | 9 | 10 | 600 | 1 | 3 |
| | Bristol ... | 21·1 | +10 | W | 3 | z₀ | 56 | 92 | 54 | 6 | s | – | – | 10 | 10 | 300 | 1 | • |
| | Portland Bill ... | 20·8 | +2 | NW | 4 | bc | 59 | 85 | 55 | 8 | 2 | – | – | 4-6 | 4-6 | 4000 | 1 | 4 |
| | Plymouth ... | 22·3 | +4 | W'N | 3 | c | 58 | 92 | 55 | 7 | s | – | – | 9 | 9 | 1500 | 1 | 3 |
| | The Lizard ... | 22·5 | +8 | WNW | 3 | f | 55 | 97 | 55 | 3 | s | – | – | 10 | 10 | 400 | 1 | 3 |
| | Scilly (St. Mary's) | 22·4 | +2 | W'S | 3 | f+ | 54 | 97 | 54 | 2 | – | – | – | 10 | 10 | <150 | 1 | 3 |
| 6 | Pembroke ... | 21·2 | +4 | W'N | 4 | m | 54 | 97 | 54 | 4 | s | – | – | 9+ | 9+ | 1500 | 1 | 3 |
| 7 | Holyhead (Valley) | 19·4 | +6 | SSW | 2 | c | 57 | 97 | 56 | 8 | s | – | – | 10 | 10 | 2500 | 1 | 3 |
| | Chester (Sealand) | 18·0 | +6 | NW | 1 | c | 60 | 85 | 56 | 7 | s | – | – | 9+ | 9+ | 2500 | 0 | • |
| 8 | Manchester ... | 18·4 | +8 | WSW | 3 | z₀ | 57 | 97 | 55 | 6 | s | – | – | 4-6 | 10 | 800 | 1 | • |
| 10 | Spurn Head ... | 17·1 | +14 | WNW | 4 | c | 56 | 92 | 54 | 7 | 7 | 2 | – | 4-6 | 10 | 1500 | 0 | 3 |
| | Catterick ... | 16·8 | +18 | – | 0 | ir₀ | 59 | 92 | 56 | 7 | s | – | – | 10 | 10 | 1400 | 1 | • |
| | Tynemouth ... | 16·4 | +12 | W | 3 | c/pr | 58 | 92 | 55 | 6 | – | 2 | – | 10 | 10 | 1600 | 1 | 2 |
| 11 | St. Abbs Head | 14·5 | +4 | SE | 2 | rf | 51 | 97 | 50 | 1 | s | – | – | 10 | 10 | 2500 | 1 | 3 |
| | Leuchars ... | 14·4 | −2 | – | 0 | id₀ | 51 | 97 | 51 | 7 | s | 2 | – | 9 | 10 | 600 | 1 | • |
| 12 | Renfrew (Abbots I.) | 15·5 | +10 | WSW | 4 | id₀ | 57 | 92 | 55 | 6 | s | 2 | – | 9 | 10 | 800 | 1 | • |
| | Eskdalemuir ... | 15·6 | +8 | W'S | 3 | o/d | 56 | 92 | 53 | 6 | s | – | – | 10 | 10 | 700 | 1 | • |
| | Point of Ayre ... | 17·1 | +12 | W'N | 4 | c | 58 | 97 | 57 | 8 | s | – | – | 9+ | 9+ | 2500 | 1 | 3 |
| 13A | Tiree ... ... | 15·2 | +14 | SW | 4 | df | 54 | 97 | 54 | 3 | s | – | – | 10 | 10 | <150 | 1 | |
| 13B | Stornoway ... | 12·1 | 0 | WSW | 3 | pr | 54 | 97 | 53 | 7 | s | 2 | – | 9 | 10 | 1000 | 2 | 2 |
| 15 | Dalwhinnie ... | 14·6 | +4 | WSW | 3 | ir | 53 | 92 | 51 | 7 | s | 2 | – | 7-8 | 10 | 1500 | 1 | • |
| | Aberdeen ... | 15·5 | +10 | SSE | 3 | rr | 48 | 97 | 47 | 5 | 6 | 2 | – | 9 | 10 | 500 | 1 | 3 |
| | Wick ... | 14·6 | +10 | ESE | 3 | dr | 47 | 85 | 43 | 5 | 6 | – | – | 10 | 10 | 400 | 1 | • |
| 16 | Sumburgh ... | 16·5 | +14 | NEN | 1 | c | 42 | 75 | 34 | 9 | s | 7 | 7 | 1 | 10 | 2500 | 1 | 1 |
| 17 | Blacksod Point | 16·6 | −4 | SSW | 5 | id₀ | 55 | 97 | 54 | 6 | – | 2 | – | 10 | 10 | 1500 | 1 | 4 |
| 18 | Malin Head ... | 15·5 | +2 | W'S | 3 | c | 56 | 97 | 52 | 7 | s | – | – | 10 | 10 | 800 | 2 | 3 |
| | Aldergrove ... | 17·3 | +4 | SW | 2 | o/d | 59 | 92 | 57 | 7 | s | – | – | 10 | 10 | 800 | 1 | • |
| 19 | Birr Castle ... | 18·8 | 0 | E'N | 1 | c | 59 | 92 | 57 | 8 | s | 2 | – | 7-8 | 10 | 2500 | 1 | • |
| 20 | Valentia Obsy. | 20·1 | −2 | SW | 4 | c/d | 55 | 92 | 53 | 7 | s | – | – | 9+ | 9+ | 1500 | 1 | 3 |
| | Roches Point | 20·3 | +2 | W | 3 | c | 56 | 92 | 54 | 8 | s | – | – | 9 | 9 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| District | Stations | Weather. 7h.—13h. ....18th. (39) | Weather. 13h.—18h. ....18th. (40) | Weather. 18h.—1h. 18th to 19th (41) | Weather. 1h.—7h. ....19th (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | cir₀c | ccm₀ | r₀bccir | ir₀mfd₀ |
| | Croydon ... | cm₀id₀cm | c₂₀ccm₀ | cir₀mbm₀ | bm₀ofd₀c |
| | S. Farnborough | c | cir m₀ | cr₀m₀bcm₀ | bcm₀od₀fe |
| | Boscombe Down | c | c | cm₀ofe | ofe id₀m |
| | Thorney Island | c cir₀c | cr₀c | cow | Ffid₀ |
| | Lympne ... | c | ccm₀ | cm₀ | cm₀w₀F |
| | Manston ... | cm₀ | cm₀ | ocom₀ | om₀d₀d₀f |
| 2 | Shoeburyness ... | bcm₀cm₀ | ccm₀ | cm₀c | cwm₀ |
| | Felixstowe ... | c | c | ccm₀ | cm₀ |
| | Gorleston ... | c | c₂₀ir₀ | cm₀ | om₀d |
| | Mildenhall ... | c | ccm₀ | cm₀ | cm₀om₀ |
| | Cranwell ... | cm₀c | cir₀cm₀ | cbccm₀ | bcb₀cm₀w |
| 3 | Birmingham ... | r₀ | 0 | 0 | off |
| | Upper Heyford | c | cm₀ir₀ | cir₀c | bcm₀ofe |
| 4 | Ross-on-Wye | c | cbcc | ccb | cm₀d₀of |
| 5 | Hartland Point | cid | cbcifof | ifd ffe | ffedfdf |
| | Bristol ... | cm₀ir₀ | ccm₀ | cm | cm₀fcm₀ |
| | Portland Bill ... | c | cbc | bc₀ | 0 |
| | Plymouth ... | cid₀m₀c | c | cid | cid₀m₀f |
| | The Lizard ... | oddcm | FFe | odfF | odf |
| | Scilly (St. Mary's) | bffe | bo ffe | offe | ffe |
| 6 | Pembroke ... | c | cifem | ffid₀m₀ | cdfdf |
| 7 | Holyhead (Valley) | c | cir₀c | cf | dd₀d₀cm₀ |
| | Chester (Sealand) | crrm₀r₀ | c | cbm₀ | bwmf |
| 8 | Manchester ... | ir₀d₀d₀ | mpid₀ | cid₀m₀ | cd₀d₀m |
| 10 | Spurn Head ... | cd₀ | c | c | c |
| | Catterick ... | cir₀cr₀m₀ | cr₀d₀ cmc | cir₀ | cir₀bcc |
| | Tynemouth ... | cp₀ | cp | cir₀ | cir₀c |
| 11 | St. Abbs Head | cprm₀r₀ | orm₀dFd₀Fr₀m₀₀ | | omrm₀co |
| | Leuchars ... | pd₀d₀m₀ | od₀d₀mcid₀ | idir₀rrm₀ | orcr₀cm₀ |
| 12 | Renfrew (Abbots I.) | d₀r₀ id₀ | cm₀cid₀ | cm₀ | cir₀cm₀ |
| | Eskdalemuir ... | cir | cid₀ | cm₀ | coF |
| | Point of Ayre ... | c | c | id₀d₀₀ | od₀d₀ |
| 13A | Tiree ... ... | orrf | ddfmd₀d₀fd₀fdmr₀ | | d₀r₀id₀d₀m₀ |
| 13B | Stornoway ... | cr₀r₀ | cpr | crr | crr. |
| 15 | Dalwhinnie ... | cir₀ | oir | * | oo ir₀o |
| | Aberdeen ... | cddr₀r₀rrm₀ | orrm₀ | rrr₀r₀rrm₀ | or₀r₀cm₀ |
| | Wick ... | cd₀d₀r₀r₀ | cr₀r₀cd₀r₀ | edrm₀cRR | crrm₀ |
| 16 | Sumburgh ... | c | c | c | c, cr₀r₀m₀ |
| 17 | Blacksod Point | d | d | c | d |
| 18 | Malin Head ... | d | d | d | e |
| | Aldergrove ... | ccid₀ | cid₀c | d₀d₀ccd₀d₀ | cidfc |
| 19 | Birr Castle ... | r | c | * | bc |
| 20 | Valentia Obsy. | r | d | d | bc |
| | Roches Point | c | c | d | d |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 19th October

| Districts | Forecast |
|---|---|
| 1 S.E. England<br>2 E. England ...<br>3 E. Midlands ...<br>4 W. Midlands | Light or moderate southwest winds; bright intervals at first, mainly cloudy later with local fog; rather warm. |
| 5 S.W. England<br>6 South Wales<br>7 North Wales<br>8 N.W. England<br>9 N. Midlands ... | Light or moderate southwest wind; mainly cloudy; hill fog and local coast fog. Local rain and drizzle; rather warm. |
| 10 N.E. England<br>11 S.E. Scotland | Moderate southwest wind; cloudy; occasional rain later: rather warm. |
| 12 S.W. Scotland & Isle of Man<br>13A W. Scotland ...<br>13B N.W. Scotland | Moderate southwest wind, fresh locally. Cloudy; local drizzle, more general rain and drizzle later; local coast and hill fog: rather warm. |
| 14 Mid Scotland<br>15 N.E. Scotland | As 12-13B. |
| 16 Orkneys and Shetlands<br>17 N. W. Ireland<br>18 N. E. Ireland<br>19 S. E. Ireland<br>20 S. W. Ireland | As 12-13B. |

### GENERAL INFERENCE

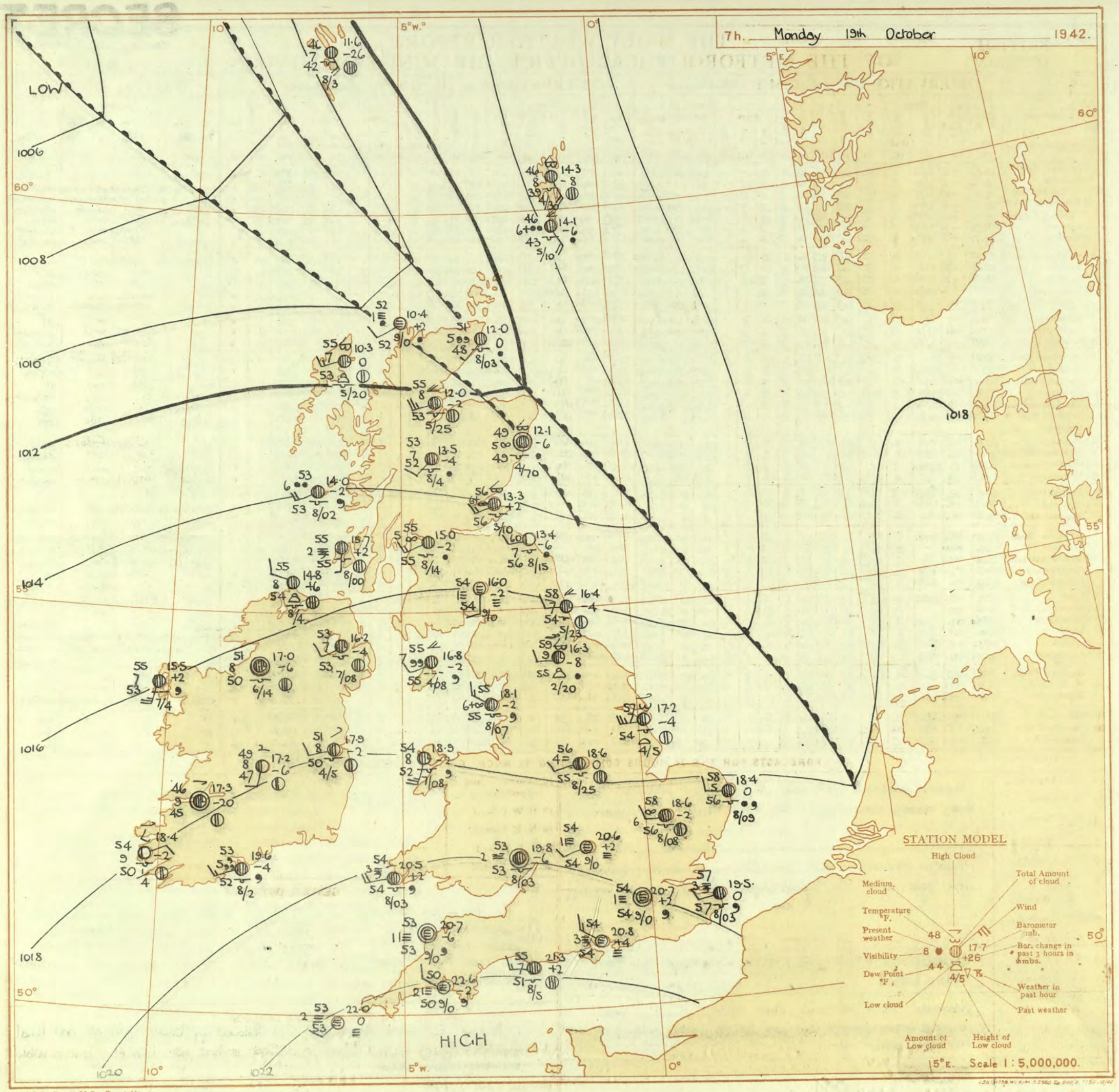
An anticyclone is centred to south of the British Isles and a cold front is approaching West Ireland. There will be some bright intervals in Eastern districts at first, but mainly cloudy conditions with local fog are likely later. In the West and North weather will be cloudy with occasional rain or drizzle.

### FURTHER OUTLOOK

Occasional rain in the North and West followed by bright intervals and local showers. Cloudy in the South and East at first with local rain but possibly becoming fair later.

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, M.O., Dunstable.

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

## Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

## 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.

Monday 19th October 1942

No. 29551

## OBSERVATIONS at 1 hr. G.M.T. 19th October

| 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 | * | * | * | * | * | 55 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 20·8 | -2 | SW | 1 | z. | 55 | 97 | 55 | 5 | - | 4 | - | 0 | 1 | - |
| | S. Farnborough | 226 | 20·6 | 0 | W | 2 | z. | 54 | 97 | 53 | 6 | 5 | - | - | 4-6 | 4-6 | 2500 |
| | Boscombe Down | 417 | 21·4 | 0 | W'N | 2 | f | 54 | 92 | 54 | 2 | - | - | - | 10 | 10 | <150 |
| | Thorney Island | 10 | 20·9 | 0 | W'N | 3 | z. | 56 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 500 |
| | Lympne | 283 | 20·2 | 0 | W | 2 | z. | 52 | 85 | 48 | 6 | 5 | - | - | 10 | 10 | 1800 |
| | Manston | 154 | 19·6 | +2 | W | 2 | z. | 59 | 85 | 55 | 5 | 5 | - | - | 10 | 10 | 1700 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 19·2 | +6 | W'S | 1 | z. | 57 | 97 | 56 | 5 | 5 | - | - | 10 | 10 | 1200 |
| | Gorleston | 5 | 18·3 | +6 | WNW | 1 | z. | 58 | 92 | 55 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Mildenhall | 15 | 18·9 | +2 | WSW | 3 | z. | 59 | 92 | 57 | 5 | 5 | - | - | 10 | 10 | 1800 |
| | Cranwell | 203 | 18·3 | 0 | W'S | 2 | z. | 57 | 97 | 56 | 5 | - | 3 | - | 0 | 9 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 20·5 | +2 | W'S | 2 | z. | 53 | 97 | 52 | 5 | - | 7 | - | 0 | 2-3 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 21·8 | -2 | W | 3 | bf | 53 | 97 | 53 | 3 | - | - | - | 0 | 0 | - |
| | Bristol | 209 | 21·5 | -2 | SW | 2 | m | 54 | 97 | 53 | 4 | 5 | - | - | 7-8 | 7-8 | 400 |
| | Portland Bill | 32 | 21·6 | +4 | NW | 3 | o | 56 | 85 | 52 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | 23·2 | +2 | NW | 2 | id. | 54 | 97 | 54 | 7 | 5 | 2 | - | 9 | 10 | 400 |
| | The Lizard | 240 | 22·6 | 0 | W'N | 3 | dF | 54 | 97 | 54 | 1 | 5 | - | - | 10 | 10 | 200 |
| | Scilly (St. Mary's) | 163 | 23·0 | -6 | SW'S | 3 | f | 54 | 97 | 54 | 2 | - | - | - | 10 | 10 | <150 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 21·9 | 0 | W'S | 4 | z. | 53 | 97 | 53 | 6 | 5 | - | - | 10 | 10 | 800 |
| 7 | Holyhead (Valley) | 32 | 19·8 | -2 | S'W | 4 | d.d. | 56 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 100 |
| | Chester (Sealand) | 16 | 19·3 | +6 | SE | 1 | b | 53 | 85 | 49 | 6 | - | - | - | 0 | 0 | - |
| 8 | Manchester | 235 | 19·2 | 0 | SW'W | 2 | d.d. | 58 | 97 | 57 | 5 | 5 | - | - | 7-8 | 10 | 500 |
| 10 | Spurn Head | 29 | 17·8 | +4 | W'N | 4 | c | 56 | 92 | 53 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Catterick | 175 | 17·8 | +8 | W'S | 1 | ir. | 59 | 92 | 57 | 7 | 5 | 7 | - | 2-3 | 9+ | 2500 |
| | Tynemouth | 108 | 17·2 | +6 | W | 3 | ir. | 59 | 92 | 57 | 6 | 2 | - | - | 10 | 10 | 1500 |
| 11 | St. Abbs Head | 280 | 15·3 | 0 | - | 0 | c/r | 56 | 92 | 54 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Leuchars | 36 | 14·9 | -6 | - | 0 | rr | 50 | 97 | 50 | 5 | - | 2 | - | 10 | 10 | 6600 |
| 12 | Renfrew (Abbots I.) | 19 | 16·1 | -4 | SW | 2 | z. | 57 | 92 | 55 | 6 | 5 | - | - | 10 | 10 | 700 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 18·0 | +6 | WNW | 3 | d.d. | 56 | 97 | 56 | 6 | * | 2 | * | 10 | 10 | 2000 |
| 13A | Tiree | 22 | 14·7 | -6 | SW | 4 | d.d. | 54 | 97 | 54 | 4 | 5 | - | - | 10 | 10 | 100 |
| 13B | Stornoway | 80 | 11·3 | -8 | SSW | 3 | rr | 55 | 97 | 55 | 7 | 5 | 2 | - | 9 | 10 | 1000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 14·4 | -16 | SSE | 2 | rr | 50 | 92 | 49 | 4 | - | 1 | - | 10 | 10 | 300 |
| | Wick | 114 | 13·5 | -6 | SSE | 4 | RR | 49 | 97 | 49 | 6 | 5 | - | - | 4-6 | 10 | 300 |
| 16 | Sumburgh | 19 | 15·3 | -6 | SE'S | 3 | c-bc | 45 | 75 | 38 | 8 | - | 7 | - | 0 | 7-8 | - |
| 17 | Blacksod Point | 18 | 16·5 | -6 | SSW | 6 | c | 54 | 97 | 53 | 7 | 6 | - | - | 9+ | 9+ | 1500 |
| 18 | Malin Head | 84 | 15·5 | -4 | SSW | 2 | c | 56 | 97 | 55 | 8 | 8 | - | - | 10 | 10 | 1500 |
| | Aldergrove | 268 | 17·9 | -2 | SW | 2 | c/d | 55 | 97 | 54 | 2 | - | 2 | - | 10 | 10 | 100 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 19·4 | -6 | SSE | 3 | bc | 53 | 97 | 52 | 8 | 5 | - | - | 4-6 | 4-6 | 450 |
| | Roches Point | 22 | 21·1 | 0 | W'S | 3 | id. | 53 | 97 | 52 | 8 | 5 | - | - | 9+ | 9+ | 800 |

## OBSERVATIONS at 7 hr. G.M.T. 19th October

| 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) | 20·2 | 0 | WSW | 2 | df | 55 | 97 | 54 | 3 | - | 2 | - | 10 | 10 | 2500 | 1 | * |
| Croydon | 20·7 | +2 | - | 0 | F | 54 | 97 | 54 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| S. Farnborough | 20·5 | -2 | WSW | 2 | f | 54 | 97 | 53 | 3 | 5 | - | - | 10 | 10 | 200 | 1 | * |
| Boscombe Down | 21·2 | 0 | WNW | 2 | f+ | 53 | 97 | 52 | 3 | - | - | - | 10 | 10 | <150 | 0 | * |
| Thorney Island | 20·8 | +4 | W'N | 3 | df | 54 | 97 | 54 | 3 | - | - | - | 10 | 10 | <150 | 1 | * |
| Lympne | 20·4 | +2 | W | 1 | F+ | 53 | 97 | 53 | 1 | 5 | - | - | 10 | 10 | <150 | 0 | §2 |
| Manston | 19·5 | 0 | WSW | 2 | df | 57 | 97 | 57 | 3 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| Shoeburyness | 19·5 | +2 | WSW | 2 | z. | 56 | 92 | 55 | 5 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| Felixstowe | 18·9 | 0 | SW'S | 1 | z. | 58 | 97 | 57 | 5 | 5 | - | - | 10 | 10 | 1400 | 0 | 2 |
| Gorleston | 18·4 | 0 | W'N | 2 | c/d | 58 | 92 | 56 | 5 | 5 | - | - | 10 | 10 | 900 | 1 | 2 |
| Mildenhall | 18·6 | -2 | W'N | 2 | z. | 58 | 92 | 56 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Cranwell | 17·8 | -4 | WSW | 2 | z. | 56 | 97 | 56 | 6 | 5 | 3 | - | 9 | 9+ | 2000 | 1 | * |
| Birmingham | 19·6 | -4 | SW | 2 | f | 54 | 92 | 52 | 2 | - | - | - | 10 | 10 | <150 | 1 | * |
| Upper Heyford | 20·6 | +2 | SW'W | 2 | F+ | 54 | 97 | 54 | 1 | - | - | - | 10 | 10 | <150 | 0 | * |
| Ross-on-Wye | 19·8 | -6 | - | 0 | cf | 53 | 97 | 53 | 2 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| Hartland Point | 20·7 | -6 | W'S | 3 | F+ | 53 | 97 | 53 | 1 | - | - | - | 10 | 10 | <150 | 1 | 3 |
| Bristol | 21·3 | -2 | W | 2 | c/f | 53 | 97 | 52 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Portland Bill | 21·3 | +2 | W | 3 | o | 56 | 85 | 51 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Plymouth | 22·6 | -2 | WNW | 2 | f+ | 50 | 97 | 50 | 2 | - | - | - | 10 | 10 | <150 | 1 | 2 |
| The Lizard | 21·7 | -4 | WNW | 3 | dF | 52 | 97 | 52 | 1 | 5 | - | - | 10 | 10 | 200 | 1 | 3 |
| Scilly (St. Mary's) | 22·0 | 0 | SW'S | 2 | f | 53 | 97 | 53 | 2 | - | - | - | 10 | 10 | <150 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 20·5 | +2 | W'S | 4 | df | 54 | 97 | 54 | 3 | 5 | - | - | 10 | 10 | 800 | 1 | 3 |
| Holyhead (Valley) | 18·9 | -2 | S'W | 5 | c | 54 | 92 | 52 | 8 | 5 | - | - | 9+ | 9+ | 800 | 1 | 4 |
| Chester (Sealand) | 18·6 | 0 | SE | 1 | f | 48 | 97 | 48 | 2 | - | - | 1 | 0 | Tr | - | 0 | * |
| Manchester | 18·8 | 0 | S'E | 2 | m/d | 54 | 97 | 54 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Spurn Head | 17·2 | -4 | W | 5 | c-bc | 57 | 92 | 54 | 7 | 7 | 3 | 1 | 4-6 | 7-8 | 2500 | 1 | 3 |
| Catterick | 16·3 | -8 | W | 2 | c | 59 | 92 | 55 | 9 | 2 | 7 | 2 | 1 | 9+ | 2000 | 1 | * |
| Tynemouth | 16·4 | -4 | W | 2 | c | 58 | 85 | 54 | 7 | 5 | 2 | - | 7-8 | 9 | 2300 | 1 | 2 |
| St. Abbs Head | 13·4 | -6 | W | 2 | c | 60 | 85 | 56 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| Leuchars | 13·3 | +2 | WSW | 3 | z. | 56 | 97 | 56 | 6 | 5 | 7 | - | 2-3 | 10 | 1000 | 1 | * |
| Renfrew (Abbots I.) | 15·0 | -2 | SW'W | 3 | z. | 55 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 1400 | 1 | * |
| Eskdalemuir | 16·0 | -2 | S | 2 | F. | 54 | 97 | 54 | 1 | - | - | - | 10 | 10 | 450 | 1 | * |
| Point of Ayre | 16·8 | -2 | WSW | 2 | d.d. | 55 | 97 | 55 | 7 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 3 |
| Tiree | 14·0 | -2 | SW | 4 | r.r. | 53 | 97 | 53 | 6 | 5 | - | - | 10 | 10 | 200 | 1 | 3 |
| Stornoway | 10·3 | 0 | WSW | 3 | c | 55 | 92 | 53 | 7 | 8 | 7 | - | 7-8 | 9+ | 2000 | 1 | 3 |
| Dalwhinnie | 13·5 | -4 | SSW | 2 | o | 53 | 97 | 52 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Aberdeen † | 12·1 | -6 | - | 0 | z. | 49 | 97 | 49 | 5 | 5 | 7 | - | 4-6 | 10 | 7000 | 1 | 1 |
| Wick | 12·0 | 0 | SSW | 1 | d.d. | 51 | 92 | 48 | 5 | 5 | - | 1 | 10 | 10 | 300 | 1 | * |
| Sumburgh | 14·1 | -6 | SE | 4 | r.r. | 46 | 92 | 43 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | 2 |
| Blacksod Point | 15·5 | +2 | SSW | 5 | c | 55 | 92 | 53 | 7 | 6 | - | * | 9+ | 10 | 1500 | 1 | 4 |
| Malin Head | 14·8 | +6 | W'N | 2 | c | 55 | 97 | 54 | 8 | 8 | - | - | 10 | 10 | 1500 | 2 | 2 |
| Aldergrove | 16·2 | -4 | SW | 2 | c | 53 | 97 | 53 | 7 | 5 | - | - | 9+ | 9+ | 800 | 1 | * |
| Birr Castle | 17·2 | -6 | SSW | 2 | bc | 49 | 92 | 47 | 8 | - | - | 5 | 0 | 4-6 | - | 1 | * |
| Valentia Obsy. | 18·4 | -2 | ENE | 2 | bc | 54 | 85 | 50 | 9 | 5 | 4 | 1 | Tr | 2-3 | 1500 | 1 | 3 |
| Roches Point | 19·6 | -4 | WSW | 3 | dd | 53 | 97 | 52 | 5 | 5 | - | - | 10 | 10 | 450 | 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) | Night 18h–7h mm. (37) | Sunshine 18h. Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 61 | 54 | 48 | Tr | Tr | 0·3 |
| Croydon | 61 | 53 | 49 | Tr | 0·1 | 0·2 |
| S. Farnborough | 62 | 53 | 48 | 0·2 | 0·1 | 1·4 |
| Boscombe Down | 59 | 51 | 50 | - | Tr | 0·0 |
| Thorney Island | 63 | 53 | * | - | Tr | * |
| Lympne | 62 | 53 | 53 | - | * | 0·3 |
| Manston | 67 | 57 | 56 | Tr | Tr | 0·0 |
| Shoeburyness | 57 | 56 | 54 | - | Tr | 0·3 |
| Felixstowe | 63 | 57 | 55 | - | - | 1·5 |
| Gorleston | 63 | 57 | 55 | Tr | Tr | 0·5 |
| Mildenhall | 62 | 57 | 53 | Tr | * | 0·0 |
| Cranwell | 61 | 54 | 48 | Tr | Tr | 0·2 |
| Birmingham | 61 | 54 | 50 | Tr | Tr | 0·0 |
| Upper Heyford | 61 | 52 | 50 | Tr | 0·1 | * |
| Ross-on-Wye | 64 | 51 | 44 | - | Tr | 0·7 |
| Hartland Point | 57 | 52 | 52 | 0·3 | 1 | 1·6 |
| Bristol | 59 | 52 | 50 | Tr | Tr | 0·0 |
| Portland Bill | 59 | 54 | * | - | - | * |
| Plymouth | 60 | 50 | 49 | Tr | Tr | 1·0 |
| The Lizard | 58 | 52 | * | 0·1 | 1 | 0·4 |
| Scilly (St. Mary's) | 59 | 52 | * | 0·2 | Tr | 3·4 |
| Guernsey | | | | | | |
| Pembroke | 57 | 51 | * | Tr | 0·5 | 0·8 |
| Holyhead (Valley) | 59 | 53 | 52 | Tr | 0·2 | * |
| Chester (Sealand) | 65 | 48 | 41 | 1 | 0·1 | 0·2 |
| Manchester | 58 | 54 | 54 | 0·3 | 1 | 2·2 |
| Spurn Head | 59 | 55 | * | Tr | 0·5 | 0·0 |
| Catterick | 61 | 58 | 53 | 0·2 | 0·4 | 0·0 |
| Tynemouth | 60 | 58 | 55 | 1 | 1 | * |
| St. Abbs Head | 58 | 51 | * | 2 | 0·3 | * |
| Leuchars | 51 | 50 | 49 | 3 | 3 | 0·0 |
| Renfrew (Abbots I.) | 58 | 55 | 54 | 2 | 0·1 | 0·0 |
| Eskdalemuir | 58 | 53 | 54 | 1 | 0·2 | 0·0 |
| Point of Ayre | 59 | 55 | * | - | 0·3 | 0·0 |
| Tiree | 54 | 53 | * | 6 | 1 | 0·0 |
| Stornoway | 54 | 51 | * | 8 | 6 | 0·0 |
| Dalwhinnie | 55 | 51 | 49 | 5 | 0·2 | 0·0 |
| Aberdeen † | 48 | 47 | 46 | 11 | 9 | 0·0 |
| Wick | 48 | 51 | * | 5 | 21 | * |
| Sumburgh | 45 | 41 | 37 | - | 0·1 | 1·3 |
| Blacksod Point | 58 | 54 | * | 0·1 | 0·2 | * |
| Malin Head | 57 | 54 | | 0·2 | Tr | 0·0 |
| Aldergrove | 59 | 53 | 52 | Tr | 0·1 | 0·0 |
| Birr Castle | 61 | 48 | 45 | Tr | - | 0·0 |
| Valentia Obsy. | 57 | 53 | 46 | Tr | Tr | 0·0 |
| Roches Point | 59 | 53 | * | - | 0·6 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 18th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 19th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 52 | 02864 | 11325 | 52 | 02853 | 00028 | 5- | 64528 | 12368 | 52 | 64517 | 15268 |
| 115 | 52 | 62735 | 12368 | 52 | 62735 | 08368 | -- | 67109 | 20369 | | | |
| 203 | | | | | | | 6- | 62838 | 16968 | | | |
| 206 | 62 | 62736 | 09168 | 02 | 64428 | 00068 | 02 | 05628 | 00068 | 52 | 02855 | 22528 |
| 210 | 02 | 60538 | 24168 | | | | 02 | 52658 | 00068 | 57 | 02842 | 23328 |
| 220 | | | | | | | | | | 5- | 64428 | 21468 |
| 230 | 52 | 21824 | 18268 | 5- | 51528 | 18258 | 5- | 52518 | 18368 | 5- | 57308 | 18258 |
| 245 | 62 | 62626 | 11268 | 62 | 58528 | 04268 | 62 | 62636 | 20168 | 57 | 02874 | 19366 |
| 260 | 52 | 61524 | 24268 | 5- | 52538 | 20258 | 5- | 62648 | 24368 | 52 | 05664 | 20327 |
| 278 | 57 | 02847 | 23258 | 62 | 52626 | 23368 | 5- | 21638 | 20158 | 5- | 57308 | 12158 |
| 279 | 57 | 02745 | 21428 | 5- | 21416 | 22458 | 5- | 52408 | 20458 | 5- | 57308 | 20558 |
| 285 | | | | | | | | | | 5- | 05525 | 04428 |
| 288 | 02 | 52758 | 22368 | 57 | 02864 | 16228 | 62 | 22564 | 21264 | 53 | 02961 | 19327 |
| 575 | 5- | 02838 | 22258 | 5- | 51648 | 24358 | 5- | 02738 | 00028 | 5- | 02846 | 00026 |
| 301 | 62 | 05625 | 26458 | 5- | 52528 | 24468 | 5- | 52408 | 28258 | | | |
| 321 | 57 | 61654 | 25468 | 57 | 62657 | 23268 | 57 | 05644 | 24224 | 5- | 05648 | 00028 |
| 299 | 57 | 02755 | 24317 | | | | | | | 57 | 05644 | 20115 |
| 292 | 57 | 62645 | 24367 | 53 | 02844 | 22325 | 57 | 08674 | 21166 | 59 | 02962 | 23117 |
| 310 | | | | | | | | | | | | |
| 614 | 57 | 51645 | 24367 | 5- | 22656 | 57466 | | | | | | |

| III | 13h. G.M.T. 18th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 19th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 57 | 61844 | 22257 | 57 | 02746 | 22468 | 5- | 57318 | 16258 | 5- | 21738 | 18258 |
| 334 | | | | -- | 54437 | 26458 | | | | -- | 03537 | 22328 |
| 340 | 57 | 02865 | 22228 | 57 | 22846 | 23367 | 5- | 02728 | 22228 | 5- | 02725 | 22225 |
| 136 | 5- | 22748 | 24368 | 57 | 05646 | 20328 | 5- | 05548 | 23228 | 5- | 05528 | 22228 |
| 336 | | | | | | | | | | 50 | 01753 | 08314 |
| 350 | 51 | 02846 | 23368 | 57 | 02745 | 22358 | 5- | 05648 | 26368 | 5- | 52418 | 22358 |
| 368 | 57 | 02846 | 24458 | 52 | 51626 | 24338 | 52 | 51425 | 24158 | 5- | 51528 | 22258 |
| 379 | | | | 57 | 22736 | 22468 | 00 | 08490 | 22210 | -- | 57109 | 22149 |
| 390 | 5- | 02757 | 22328 | 57 | 05546 | 22367 | 5- | 08448 | 22168 | | 46209 | 00049 |
| 382 | 52 | 02847 | 24328 | 57 | 02864 | 56526 | -- | 44109 | 00049 | -- | 44309 | 24359 |
| 438 | 52 | 02735 | 24428 | 02 | 21638 | 24558 | 50 | 47253 | 24303 | 52 | 47115 | 24448 |
| 430 | 5- | 02747 | 23357 | 57 | 02636 | 24427 | 5- | 05628 | 24128 | -- | 46209 | 24149 |
| 409 | -- | 57209 | 22459 | 5- | 41418 | 23458 | -- | 57209 | 24359 | -- | 57109 | 18259 |

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 October
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 * | crir$_o$c | ccm$_o$ | r$_o$bccir$_o$d$_o$ |
| Croydon | cm$_o$id$_o$cm$_o$ | cz$_o$cm$_o$ | cir$_o$Fde |
| Greenwich | cz$_o$c | c | dbofe$^o$ |
| Camden Square | c | c | * |
| *Kensington | cp | bcc | * |
| Hampstead | or | c | odf |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·1, Time 13-24h on 18th; Min. <0·1, Time 12h on 18th.

| 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 | 61 | 54 | 48 | Tr | Tr | 0·3 | * | * |
| Croydon | 61 | 53 | 49 | Tr | 0·1 | 0·2 | * | * |
| Greenwich | 62 | 54 | 46 | Tr | Tr | 0·0 | 80 | 99 |
| Westminster | 62 | 54 | 42 | Tr | | | 83 | 98 |
| Regents Park | 62 | 54 | 52 | - | Tr | | 77 | 97 |
| Camden Square | 62 | 54 | 49 | Tr | Tr | * | * | 99 |
| Kensington | 62 | 54 | 43 | - | 0·1 | | 92 | 94 |
| Hampstead | 60 | 52 | 49 | 0·1 | Tr | | * | 98 |

**SECRET**

Page 1

BRITISH SECTION

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

Tuesday 20th October 1942

No. 29552

## OBSERVATIONS at 13h. G.M.T. 19th October

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0–12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Dew Point. °F. (8) | Visibility. 0–9 (9) | Cloud. Form. Low. (10) | Form. Med. (11) | Form. High (12) | Amount. Low 0–10 (13) | Amount. Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 19.8 | -6 | WSW | 2 | $Z_0$ | 59 | 83 | 53 | 6 | - | - | - | 0 | 0 | - |
| | Croydon ... | 20.6 | -4 | W | 1 | $Z_0$ | 58 | 92 | 55 | 6 | 1 | - | - | Tr | Tr | 2000 |
| | S. Farnborough | 20.0 | -10 | N | 3 | b | 64 | 68 | 53 | 8 | - | - | - | 0 | 0 | - |
| | Boscombe Down | 20.5 | -8 | W | 3 | b | 65 | 75 | 55 | 7 | - | - | - | 0 | 0 | - |
| | Thorney Island | 20.7 | -6 | WNW | 3 | b | 60 | 85 | 54 | 7 | 5 | - | - | Tr | Tr | 2500 |
| | Lympne ... | 19.9 | -6 | WSW | 1 | m/f | 57 | 97 | 56 | 4 | 5 | - | - | 10 | 10 | 100 |
| | Manston ... | 19.0 | -4 | WS | 1 | $Z_0$ | 57 | 92 | 55 | 5 | 5 | - | - | 10 | 10 | 700 |
| 2 | Shoeburyness ... | 19.5 | -8 | WS | 2 | of | 58 | 92 | 56 | 3 | 5 | - | - | 10 | 10 | 600 |
| | Felixstowe ... | 18.6 | -12 | WS | 3 | $Z_0$ | 58 | 92 | 55 | 5 | 5 | - | - | 10 | 10 | 1000 |
| | Gorleston ... | 18.0 | -6 | WN | 2 | $Z_0$ | 61 | 85 | 58 | 6 | 5 | - | - | 10 | 10 | 700 |
| | Mildenhall ... | 18.4 | -10 | WSW | 3 | c/d | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Cranwell ... | 17.0 | -4 | WSW | 4 | $Z_0$ | 60 | 92 | 58 | 5 | 5 | 7 | 1 | 2-3 | 7-8 | 500 |
| 3 | Birmingham ... | 18.7 | -4 | SW | 3 | b | 66 | 55 | 50 | 8 | - | - | 1 | 0 | 1 | - |
| | Upper Heyford | 19.3 | -4 | WSW | 2 | $Z_0$ | 63 | 76 | 54 | 6 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 19.3 | -8 | WSW | 2 | $Z_0$ | 67 | 68 | 54 | 6 | - | - | - | 0 | 0 | - |
| 5 | Hartland Point | 20.9 | -2 | WSW | 3 | c | 53 | 97 | 53 | 6 | 5 | - | - | 9+ | 9+ | 600 |
| | Bristol ... | 21.3 | -6 | WS | 3 | b | 61 | 92 | 56 | 7 | 1 | - | - | 1 | 1 | 2600 |
| | Portland Bill ... | 21.1 | -6 | W | 3 | o | 55 | 83 | 51 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 22.7 | +2 | WN | 1 | cjf | 55 | 97 | 54 | 6 | 5 | - | - | 10 | 10 | 300 |
| | The Lizard ... | 22.0 | 0 | WNW | 3 | o | 54 | 97 | 54 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 22.0 | -2 | SW | 3 | f | 56 | 97 | 56 | 2 | - | - | - | 10 | 10 | <150 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 21.4 | 0 | SW | 2 | cjf | 54 | 97 | 54 | 7 | 5 | - | - | 10 | 10 | 800 |
| 7 | Holyhead (Valley) | 19.7 | +8 | SSW | 6 | c | 57 | 92 | 54 | 8 | 5 | - | - | 9+ | 9+ | 800 |
| | Chester (Sealand) | 17.7 | -6 | SE | 1 | b-bc | 69 | 65 | 57 | 6 | - | - | 1 | - | 2-3 | - |
| 8 | Manchester ... | 18.6 | -2 | SE | 1 | $Z_0$ | 59 | 85 | 53 | 6 | 5 | - | - | 4-6 | 4-6 | 1000 |
| 10 | Spurn Head ... | 16.3 | -8 | WSW | 4 | $Z_0$ | 62 | 85 | 57 | 5 | 5 | - | 2 | 2-3 | 7-8 | 1500 |
| | Catterick ... | 16.1 | 0 | SW | 2 | c | 63 | 65 | 52 | 8 | 5 | 7 | - | Tr | 10 | 2000 |
| | Tynemouth ... | 17.0 | +10 | W | 3 | c | 61 | 85 | 56 | 7 | 8 | - | - | 9+ | 9+ | 2200 |
| 11 | St. Abbs Head | 14.1 | +4 | W | 2 | c | 60 | 85 | 53 | 7 | 5 | 4 | - | 7-8 | 9+ | 3700 |
| | Leuchars ... | 13.9 | +2 | WSW | 3 | $Z_0$ | 59 | 92 | 57 | 6 | 5 | 7 | - | 4-6 | 9+ | 600 |
| 12 | Renfrew (Abbots I.) | 15.1 | -2 | SW | 4 | $Z_0$ | 59 | 85 | 54 | 6 | 5 | 7 | - | 7-8 | 10 | 800 |
| | Eskdalemuir ... | 16.2 | 0 | SSW | 4 | o | 55 | 92 | 53 | 6 | 5 | - | - | 10 | 10 | 200 |
| | Point of Ayre ... | 17.2 | 0 | SSE | 2 | c | 59 | 85 | 53 | 8 | 4 | 4 | 6 | Tr | 9+ | 4500 |
| 13A | Tiree ... ... | 14.2 | +2 | SWS | 3 | $d_0d_0$ | 55 | 97 | 53 | 7 | 5 | - | - | 10 | 10 | 600 |
| 13B | Stornoway ... | 09.9 | +14 | SSW | 4 | c | 57 | 92 | 56 | 8 | 5 | 1 | - | 7-8 | 9+ | 900 |
| 15 | Dalwhinnie ... | 14.8 | 0 | SSW | 1 | c | 57 | 85 | 53 | 8 | 5 | 4 | 3 | 4-6 | 9+ | 2500 |
| | Aberdeen ... | 12.4 | -4 | - | 0 | c/f | 57 | 97 | 56 | 6 | 6 | 7 | - | Tr | 10 | 1500 |
| | Wick ... | 12.2 | 0 | S | 1 | c | 55 | 97 | 54 | 8 | 5 | 2 | - | 3 | 10 | 1500 |
| 16 | Sumburgh ... | 13.2 | -6 | SE | 5 | dr | 47 | 97 | 47 | 6 | 5 | 2 | - | 9+ | 10 | 400 |
| 17 | Blacksod Point | 15.6 | -2 | S | 5 | DD | 55 | 97 | 54 | 6 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head ... | 14.6 | -6 | S | 3 | c | 57 | 92 | 55 | 8 | 8 | 7 | - | 4-6 | 10 | 1500 |
| | Aldergrove ... | 16.8 | -4 | SW | 2 | c | 56 | 85 | 52 | 8 | 5 | 1 | - | 4-6 | 9+ | 1500 |
| 19 | Birr Castle ... | 17.0 | -10 | ENE | 2 | c | 61 | 78 | 53 | 7 | - | - | 5 | 0 | 9 | - |
| 20 | Valentia Obsy. | 17.4 | -6 | SE | 4 | o-bc/f | 60 | 85 | 53 | 8 | 1 | - | 2 | 1 | 7-8 | 1500 |
| | Roches Point | 19.0 | -10 | S | 2 | f | 55 | 97 | 55 | 2 | - | - | - | 10 | 10 | <150 |

## OBSERVATIONS at 18h. G.M.T. 19th October

| District | Stations. | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | Dew Point. °F. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount Low 0–10 (28) | Amount Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 19.5 | +2 | SW | 2 | m | 59 | 85 | 56 | 4 | - | - | - | 0 | 0 | - | 1 | * |
| | Croydon ... | 20.1 | +2 | SSW | 2 | $Z_0$ | 61 | 85 | 57 | 5 | - | - | - | 0 | 0 | - | 0 | * |
| | S. Farnborough | 19.7 | +6 | WSW | 2 | b | 60 | 85 | 55 | 7 | - | - | - | 0 | 0 | - | 0 | * |
| | Boscombe Down | 20.9 | +2 | WN | 2 | fg | 57 | 85 | 53 | 7 | - | - | 1 | 0 | Tr | - | 0 | * |
| | Thorney Island | 20.5 | +2 | W | 2 | $Z_0$ | 57 | 92 | 54 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| | Lympne ... | 19.8 | +2 | SW | 1 | m | 56 | 97 | 55 | 4 | - | - | - | 0 | 0 | - | 0 | g |
| | Manston ... | 18.9 | +4 | SSW | 1 | fg | 56 | 85 | 53 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| 2 | Shoeburyness ... | 19.5 | +2 | WSW | 2 | oft | 56 | 92 | 54 | 3 | - | - | - | 10 | 10 | 4150 | 0 | * |
| | Felixstowe ... | 18.7 | +2 | - | 0 | $Z_0$ | 55 | 97 | 54 | 5 | - | - | - | 0 | 0 | - | 0 | 1 |
| | Gorleston ... | 18.2 | +2 | WN | 2 | $Z_0$ | 57 | 92 | 55 | 6 | 5 | 7 | - | 4-6 | 4-6 | 800 | 0 | 2 |
| | Mildenhall ... | 18.4 | +4 | SW | 3 | $Z_0$ | 59 | 85 | 54 | 5 | - | - | 2 | 0 | 4-6 | - | 1 | * |
| | Cranwell ... | 17.4 | +6 | WS | 3 | $Z_0$ | 62 | 75 | 53 | 6 | - | 3 | 2 | 0 | 7-8 | - | 0 | * |
| 3 | Birmingham ... | 19.0 | 0 | SW | 3 | bc | 61 | 75 | 53 | 6 | - | - | 2 | 0 | 4-6 | - | 1 | * |
| | Upper Heyford | 19.2 | +6 | WSW | 2 | $Z_0$ | 58 | 85 | 54 | 6 | - | 7 | - | 0 | 1 | - | 0 | * |
| 4 | Ross-on-Wye | 19.5 | +6 | SW | 1 | $Z_0$ | 60 | 85 | 55 | 6 | - | - | 1 | 0 | Tr | - | 0 | * |
| 5 | Hartland Point | 18.7 | -8 | SW | 3 | b | 60 | 55 | 41 | 8 | - | - | 1 | 0 | Tr | - | 0 | 3 |
| | Bristol ... | 21.2 | +2 | WSW | 3 | $Z_0$ | 56 | 85 | 52 | 6 | 5 | - | 3 | 1 | 2-3 | 450 | 1 | * |
| | Portland Bill ... | 20.9 | 0 | W | 3 | o | 56 | 85 | 52 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 4 |
| | Plymouth ... | 22.4 | -2 | - | 0 | oft | 53 | 97 | 53 | 3 | 5 | - | - | 10 | 10 | <150 | 0 | 2 |
| | The Lizard ... | 21.4 | -4 | SSW | 3 | c/f | 53 | 97 | 53 | 6 | 5 | 2 | - | 9 | 10 | 600 | 1 | 3 |
| | Scilly (St. Mary's) | 20.6 | -10 | SE | 2 | b/f | 54 | 97 | 54 | 8 | - | - | 4 | 0 | 1 | - | 1 | 3 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 20.2 | -2 | SE | 3 | bc | 56 | 97 | 55 | 8 | 5 | 4 | - | 1 | 1 | 2500 | 1 | 2 |
| 7 | Holyhead (Valley) | 18.5 | -2 | SW | 4 | bc | 55 | 92 | 53 | 9 | 5 | - | - | 1 | 4-6 | 800 | 1 | 4 |
| | Chester (Sealand) | 17.9 | +2 | - | 0 | $Z_0$ | 56 | 92 | 53 | 6 | 5 | 3 | - | 1 | 9+ | 2500 | 1 | * |
| 8 | Manchester ... | 18.0 | -2 | SSE | 1 | m | 56 | 92 | 54 | 4 | 5 | - | 2 | 2-3 | 7-8 | 4000 | 1 | * |
| 10 | Spurn Head ... | 17.2 | +6 | WNW | 3 | $Z_0$ | 58 | 85 | 52 | 5 | 5 | 3 | - | 4-6 | 9+ | 1500 | 0 | 3 |
| | Catterick ... | 17.0 | +4 | W | 2 | c | 59 | 65 | 47 | 8 | 5 | 7 | - | Tr | 10 | 2200 | 0 | * |
| | Tynemouth ... | 16.4 | +2 | W | 3 | c | 57 | 83 | 53 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 2 |
| 11 | St. Abbs Head | 14.2 | +4 | SW | 3 | c | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 3 |
| | Leuchars ... | 14.2 | +2 | WSW | 2 | $Z_0$ | 57 | 97 | 56 | 6 | 5 | 5 | - | 2-3 | 9 | 5000 | 1 | * |
| 12 | Renfrew (Abbots I.) | 15.5 | 0 | WSW | 2 | $Z_0$ | 55 | 85 | 52 | 6 | 5 | 7 | - | 4-6 | 10 | 3500 | 1 | * |
| | Eskdalemuir ... | 16.9 | +2 | SE | 2 | o | 56 | 92 | 56 | 6 | 5 | - | - | 10 | 10 | 100 | 1 | * |
| | Point of Ayre ... | 16.8 | 0 | - | 0 | c | 54 | 97 | 54 | 8 | 2 | 4 | 7 | Tr | 9+ | 1000 | 0 | 1 |
| 13A | Tiree ... ... | 14.1 | +2 | SWW | 3 | $r_0r_0$ | 54 | 97 | 54 | 6 | 9 | - | - | 10 | 10 | 100 | 1 | |
| 13B | Stornoway ... | 10.6 | +6 | WSW | 3 | c | 54 | 97 | 54 | 8 | 6 | 7 | - | 7-8 | 9+ | 1000 | 1 | 1 |
| 15 | Dalwhinnie ... | 13.5 | -2 | SSW | 2 | c | 53 | 97 | 52 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Aberdeen ... | 13.2 | +6 | - | 0 | f | 54 | 97 | 54 | 1 | - | 5 | - | 0 | 4-6 | - | 1 | 1 |
| | Wick ... | 12.1 | -2 | WSW | 1 | c | 56 | 92 | 53 | 8 | 5 | 7 | - | 7-8 | 10 | 2000 | 1 | * |
| 16 | Sumburgh ... | 11.5 | -10 | SSE | 5 | dd | 49 | 97 | 49 | 5 | - | 2 | - | 10 | 10 | 300 | 1 | 3 |
| 17 | Blacksod Point | 13.9 | +2 | WS | 2 | c/f | 52 | 97 | 51 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | 2 |
| 18 | Malin Head ... | 14.6 | +2 | SW | 2 | $r_0$ | 56 | 97 | 55 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | 2 |
| | Aldergrove ... | 16.6 | 0 | SW | 1 | c | 54 | 85 | 50 | 7 | 5 | 4 | - | 7-8 | 9+ | 1000 | 1 | * |
| 19 | Birr Castle ... | 16.4 | -4 | NNW | 1 | c | 56 | 92 | 54 | 7 | - | 3 | 7 | 0 | 10 | - | 1 | * |
| 20 | Valentia Obsy. | 17.5 | +2 | S | 3 | d+ | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | 2 |
| | Roches Point | 17.5 | -6 | S | 3 | c | 56 | 97 | 55 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 4 |

## PAST 24 HOURS.

| District | Stations. | Weather. 7h.—13h. 19th (39) | 13h.—18h. 19th (40) | 18h. 19th to 1h. 20th (41) | 1h.—7h. 20th (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | $cd_0d_0bm_0$ | $bz_0bm_0w$ | bmow | boffew |
| | Croydon ... | ofcmc | $bm_0bz_0$ | $bm_0$ | $bm_0cmf$ |
| | S. Farnborough | $ofz_0fcm_0bcb$ | $b^0$ | $bm_0m$ | bmofcom |
| | Boscombe Down | bcb | b | bfoF | oFem |
| | Thorney Island | od fcm | $bm_0$ | cfFw | Fow |
| | Lympne ... | FFeff | $cmcbm_0$ | bFbff | bfmwFf |
| | Manston ... | $fd_0d_0om_0$ | $bm_0$ | bmomw | bm |
| 2 | Shoeburyness ... | ofof | ombwf | bwfb | bwmobm |
| | Felixstowe ... | $d_0d_0om_0$ | $cm_0bm_0bm_0w$ | bmobcmw | bmbcm |
| | Gorleston ... | $om_0$ | ocbc | bcbmow | bcmow |
| | Mildenhall ... | $om_0d_0d_0$ | $om_0bbcm_0$ | cmbcm | bmbcmow |
| | Cranwell ... | $cmcm_0$ | $cm_0cmcm_0$ | cbcbmobcm | bcm. |
| 3 | Birmingham ... | $ofd_0c$ | bbc | bcc | c |
| | Upper Heyford | $ofmd_0m_0$ | $bz_0bm_0$ | cmobcm | bmobf |
| 4 | Ross-on-Wye | ofcmb | $bz_0$ | bmow | bcc |
| 5 | Hartland Point | FFcc | cbcby | bbcb | bbc |
| | Bristol ... | $cm_0c$, bcb | b | bfgmo | bfgmow |
| | Portland Bill ... | o | o | oc | o |
| | Plymouth ... | ofcjfm | ojfm,f | ofcmo | cmo |
| | The Lizard ... | dpo | cFfc | oFfc | co |
| | Scilly (St. Mary's) | ofde | odfeb | bwofb | bbec |
| 6 | Pembroke ... | i+fec | cb | bcw | becg |
| 7 | Holyhead (Valley) | c | cbc | bc | $beid_0ir_0$ |
| | Chester (Sealand) | bfFm$_0$z$_0$ | $cz_0m_0$ | cmo | cmo |
| 8 | Manchester ... | kfid$_0$m$_0$ | $bccm_0$ | bcmz$_0$ | bczobc |
| 10 | Spurn Head ... | $cz_0$ | $cm_0$ | cmo | cmo |
| | Catterick ... | c | c | czoc | cmocmf |
| | Tynemouth ... | c | c | c | cm |
| 11 | St. Abbs Head | oc | o | c | c |
| | Leuchars ... | $cm_0ir_0cm$ | $cm_0$ | $cm_0cm$ | $r_0mcm_0d_0$ |
| 12 | Renfrew (Abbots I.) | $cm_0$ | $ccm_0$ | $cmoir_0id_0$ | $cmod_0d_0$ |
| | Eskdalemuir ... | ofdm$_0$ | $omm_0$ | $om_0$ | $omd_0$ |
| | Point of Ayre ... | $d_0d_0o$ | c | bffcc | bcbwc |
| 13A | Tiree ... ... | $pr_0r_0d_0d_0$ | $odirr_0$ | $rrd_0did_0r_0$ | bcc |
| 13B | Stornoway ... | cpr | $od_0d_0dd$ | cbcb | bbcc |
| 15 | Dalwhinnie ... | oc | $cpr_0$ | * | $cpr_0o$ |
| | Aberdeen ... | $cmr_0r_0cff$ | $cir_0bcFF$ | bcFFbm | bmcrrr |
| | Wick ... | c | C | $cd_0d_0$ | c |
| 16 | Sumburgh ... | $cr_0d_0$ | cd+dd | $oddm_0fc$ | $cfir_0cf$ |
| 17 | Blacksod Point | d | + | bc | bc |
| 18 | Malin Head ... | c | + | r | r |
| | Aldergrove ... | c | c | $cid_0f$ | $od_0rrr_0$ |
| 19 | Birr Castle ... | c | c | * | r |
| 20 | Valentia Obsy. | d | + | r | r |
| | Roches Point | f | f | c | r |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 20th October, 1942.

| Districts. | |
|---|---|
| 1 S.E. England | Light or moderate Southwesterly winds, veering Westerly; Cloudy at first with local thundery rain; a belt of more general thundery rain spreading Southeast, followed by mainly fair weather with some bright periods, but some local fog developing towards dawn, dispersing tomorrow morning; rather warm becoming cooler. |
| 2 E. England ... | |
| 3 E. Midlands ... | |
| 4 W. Midlands | |
| 5 S.W. England | |
| 6 South Wales | |
| 7 North Wales | |
| 8 N.W. England | |
| 9 N. Midlands ... | |
| 10 N.E. England | |
| 11 S.E. Scotland | |
| 12 S.W. Scotland & Isle of Man | Light or moderate Northwest to West winds; fair, apart from scattered showers; rather cold. |
| 13A W. Scotland ... | |
| 13B N.W. Scotland | |
| 14 Mid Scotland | |
| 15 N.E. Scotland | |
| 16 Orkneys and Shetlands | As 12-15. |
| 17 N. W. Ireland | |
| 18 N. E. Ireland | |
| 19 S. E. Ireland | |
| 20 S. W. Ireland | |

### GENERAL INFERENCE

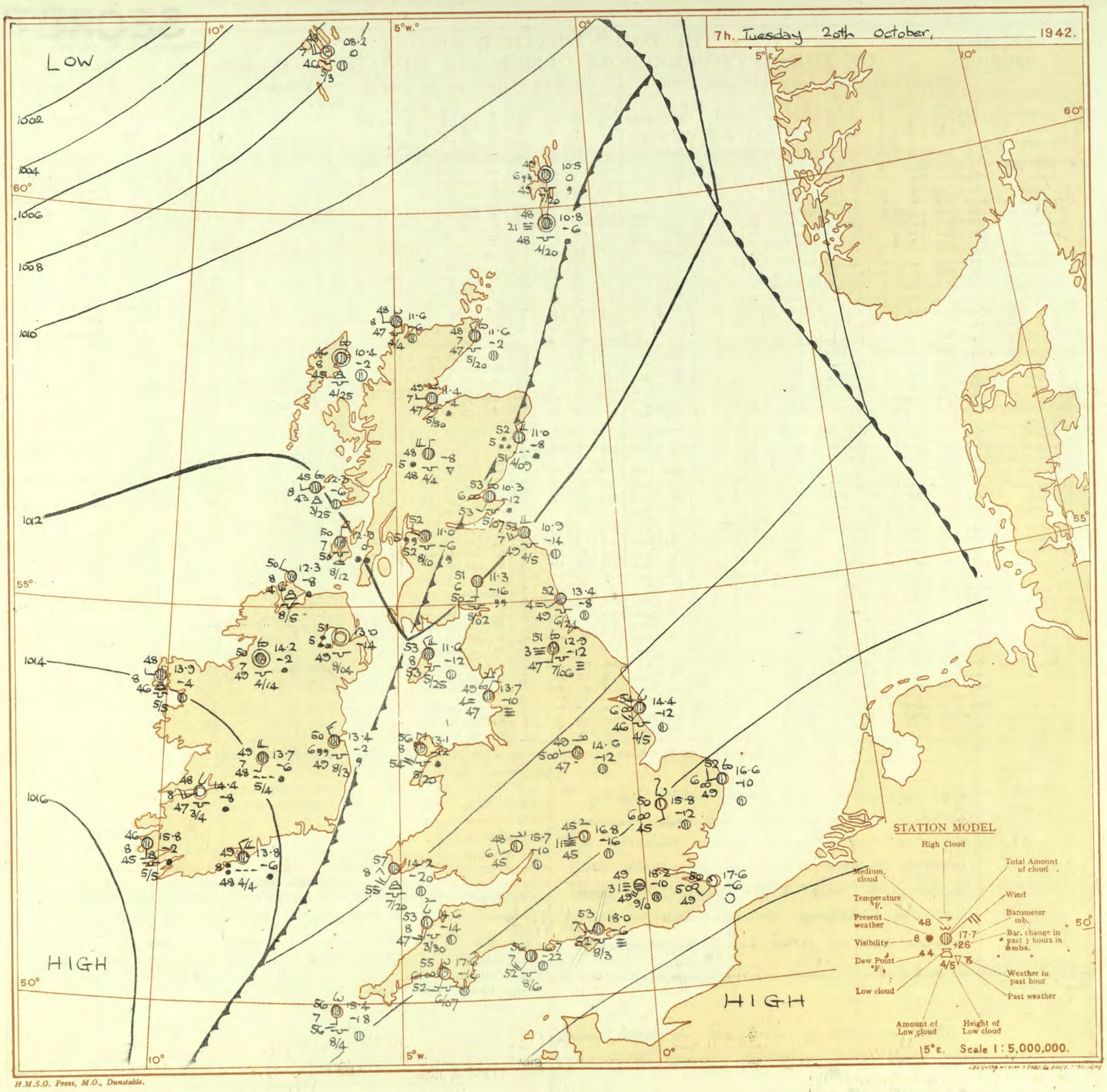
A trough of low pressure is moving Southeast across Britain. Ahead of this trough there will be local thundery rain and in the vicinity of the trough more general thundery rain. In districts behind the trough weather will become mainly fair, though with some scattered showers in the North and West and some local inland fog around dawn.

### FURTHER OUTLOOK

Mainly fair.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

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

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

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

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

## 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 one hour to get summer time.

Page 4.

BRITISH SECTION

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

Tuesday 20th October 1942

No. 29552

## OBSERVATIONS at 1 hr. G.M.T. 20th October

| 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 | * | * | * | * | * | 51 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 20·5 | -2 | SSW | 2 | Zo | 51 | 92 | 49 | 5 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 226 | 19·9 | -6 | - | 0 | m | 49 | 97 | 48 | 4 | - | - | 2 | 0 | 2-3 | - |
| | Boscombe Down | 417 | 20·5 | -4 | SSE | 2 | F | 47 | 97 | 47 | 0 | - | - | - | 10 | 10 | <150 |
| | Thorney Island | 10 | 20·3 | -4 | WSW | 2 | F | 54 | 97 | 54 | 1 | - | - | - | 10 | 10 | <150 |
| | Lympne | 283 | 29.4 | -10 | - | 0 | f | 47 | 97 | 47 | 2 | - | - | - | 0 | 0 | - |
| | Manston | 154 | 19·2 | -6 | WSW | 2 | m | 53 | 92 | 51 | 4 | - | 3 | - | 0 | Tr | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 18·6 | -2 | SW'W | 1 | - | 54 | 97 | 53 | 4 | - | 7 | - | 0 | 4-6 | - |
| | Gorleston | 5 | 18·8 | -2 | W'N | 3 | Zo | 54 | 92 | 51 | 6 | - | - | - | 0 | 0 | - |
| | Mildenhall | 15 | 17·8 | -6 | SSW | 2 | m | 54 | 92 | 52 | 4 | - | 4 | 2 | 0 | 4-6 | - |
| | Cranwell | 203 | 16·7 | -6 | WSW | 3 | Zo | 57 | 85 | 51 | 5 | - | 3 | 2 | 0 | 4-6 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 18·9 | -4 | - | 0 | m | 49 | 85 | 46 | 4 | - | 4 | 5 | 0 | 2-3 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 17·8 | -16 | S | 3 | b | 52 | 75 | 45 | 8 | - | - | 1 | 0 | Tr | - |
| | Bristol | 209 | 20·4 | -10 | - | 0 | fg | 44 | 97 | 44 | 6 | - | - | 1 | 0 | 1 | - |
| | Portland Bill | 32 | 20·2 | -4 | W | 3 | c | 54 | 85 | 50 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Plymouth | 82 | 20·9 | -10 | SW | 2 | Zo | 52 | 97 | 51 | 6 | 5 | - | - | 10 | 10 | 400 |
| | The Lizard | 240 | 19·6 | -10 | SSW | 3 | c | 54 | 97 | 54 | 8 | 8 | 2 | - | 9 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 18·7 | -16 | S | 4 | bjf | 55 | 97 | 54 | 7 | - | - | - | 0 | 0 | - |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 10·1 | -16 | SSW | 3 | b | 57 | 85 | 53 | 8 | 5 | - | - | 1 | 1 | 2500 |
| 7 | Holyhead (Valley) | 32 | 16·5 | -12 | S'W | 4 | bc | 56 | 85 | 50 | 8 | - | 5 | 8 | 0 | 4-6 | - |
| | Chester (Sealand) | 16 | 16·3 | -12 | SE'E | 2 | c | 53 | 85 | 47 | 6 | 5 | 1 | 8 | 2-3 | 10 | 4500 |
| 8 | Manchester | 235 | 16·3 | -18 | SSE | 3 | Zo | 54 | 75 | 45 | 6 | 5 | - | 2 | 4-6 | 4-6 | 4000 |
| 10 | Spurn Head | 29 | 17·2 | 0 | SSW | 3 | Zo | 55 | 92 | 52 | 6 | 5 | 3 | - | 4-6 | 7-8 | 1500 |
| | Catterick | 175 | 15·5 | -10 | SW'S | 3 | c | 59 | 65 | 45 | 8 | - | 7 | - | 0 | 10 | - |
| | Tynemouth | 108 | 16·0 | -4 | W | 2 | Zo | 53 | 85 | 50 | 6 | 5 | - | - | 9+ | 9+ | 2500 |
| 11 | St. Abbs Head | 280 | 13·5 | -4 | SW | 3 | c | 53 | 85 | 49 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars | 36 | 13·1 | -10 | - | 0 | m | 49 | 97 | 48 | 4 | 5 | 7 | - | 2-3 | 9+ | 4500 |
| 12 | Renfrew (Abbots I.) | 19 | 13·5 | -14 | W'S | 1 | id. | 55 | 92 | 54 | 5 | 5 | 2 | - | 4-6 | 10 | 1400 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 14·5 | -8 | - | 0 | bc | 49 | 97 | 49 | 7 | 4 | 4 | 8 | Tr | 4-6 | 3000 |
| 13A | Tiree | 22 | 14·0 | -2 | W | 3 | bc | 47 | 92 | 45 | 8 | 2 | 3 | 1 | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 80 | 11·8 | +6 | WSW | 1 | b | 48 | 97 | 48 | 8 | 5 | - | - | Tr | Tr | 3500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 12·4 | -14 | - | 0 | c | 57 | 97 | 57 | 8 | 5 | 7 | - | 9 | 9 | 2500 |
| | Wick | 114 | 12·7 | +6 | - | 0 | d.d. | 52 | 92 | 51 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 |
| 16 | Sumburgh | 19 | 11·4 | 0 | WSW | 1 | c/d | 51 | 97 | 51 | 7 | 5 | - | - | 7-8 | 9 | 800 |
| 17 | Blacksod Point | 18 | 15·6 | -6 | W | 1 | bc | 47 | 97 | 47 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| 18 | Malin Head | 84 | 14·1 | -6 | W | 2 | c/r | 53 | 97 | 53 | 8 | - | 2 | - | 10 | 10 | 1500 |
| | Aldergrove | 268 | 14·7 | -8 | W | 3 | rr | 53 | 97 | 53 | 4 | 5 | - | - | 10 | 10 | 100 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 17·0 | -2 | NW | 2 | rr | 51 | 97 | 50 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | 16·0 | -10 | SSW | 3 | c | 55 | 92 | 53 | 8 | 5 | - | - | 9+ | 9+ | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 20th October / 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 19th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 17·0 | -8 | SW | 2 | f | 50 | 97 | 48 | 2 | - | - | - | 10 | 10 | <150 | 1 | * | 65 | 49 | 34 | Tr | Tr | 3·4 |
| Croydon | 18·2 | -10 | SW'S | 4 | f+ | 49 | 97 | 49 | 3 | - | - | - | 10 | 10 | <150 | 1 | * | 65 | 46 | 45 | Tr | - | 3·6 |
| S. Farnborough | 17·1 | -14 | SSW | 2 | c/f | 51 | 97 | 51 | 5 | 5 | - | - | 10 | 10 | 200 | 1 | * | 68 | 47 | 36 | Tr | Tr | 4·6 |
| Boscombe Down | 17·8 | -10 | SSW | 2 | m/F | 51 | 97 | 51 | 4 | 5 | - | - | 10 | 10 | 100 | 1 | * | 66 | 45 | 39 | - | Tr | 6·2 |
| Thorney Island | 18·0 | -6 | SW'W | 2 | c | 53 | 92 | 52 | 7 | 5 | - | - | 10 | 10 | 800 | 0 | * | 64 | 53 | 50 | - | - | * |
| Lympne | 18·7 | -2 | - | 0 | F | 52 | 97 | 52 | 1 | - | - | - | 10 | 10 | <150 | 1 | §2 | 60 | 45 | 43 | - | 0·2 | 1·2 |
| Manston | 17·6 | -6 | SW | 2 | Zo | 50 | 97 | 49 | 5 | - | 4 | - | 0 | Tr | - | 1 | * | 61 | 48 | 42 | 1 | Tr | 1·0 |
| Shoeburyness | 17·8 | -6 | SSW | 2 | Zo | 52 | 92 | 50 | 5 | - | - | - | 0 | 0 | - | 0 | * | 61 | 50 | 38 | - | Tr | 0·0 |
| Felixstowe | 17·0 | -6 | S'W | 1 | Zo | 51 | 92 | 49 | 5 | - | - | 7 | 0 | 7-8 | - | 1 | 1 | 60 | 50 | 43 | Tr | Tr | 0·2 |
| Gorleston | 16·6 | -10 | WSW | 2 | Zo | 52 | 92 | 47 | 6 | - | 7 | - | 0 | 4-6 | - | 0 | 3 | 61 | 51 | 45 | Tr | - | 0·0 |
| Mildenhall | 15·8 | -12 | S'E | 2 | Zo | 50 | 85 | 45 | 6 | - | 3 | 9 | 0 | 4-6 | - | 1 | * | 63 | 49 | 42 | Tr | Tr | 7·1 |
| Cranwell | 14·6 | -6 | S | 2 | Zo | 50 | 75 | 44 | 6 | - | - | 2 | 0 | 4-6 | - | 0 | * | 64 | 50 | 39 | - | - | 3·3 |
| Birmingham | 14·7 | -24 | SW | 3 | Zo | 61 | 85 | 55 | 6 | - | 7 | 6 | 0 | 9+ | - | 1 | * | 67 | 49 | 37 | Tr | - | 6·0 |
| Upper Heyford | 16·8 | -16 | WSW | 1 | b-bcF+ | 45 | 97 | 45 | 1 | - | - | 5 | 0 | 2-3 | - | 0 | * | 68 | 45 | 42 | Tr | - | * |
| Ross-on-Wye | 15·7 | -10 | SW | 2 | bc | 48 | 92 | 45 | 6 | - | 8 | 2 | 0 | 4-6 | - | 0 | * | 76 | 46 | 38 | - | - | 7·0 |
| Hartland Point | 14·6 | -14 | SSW | 3 | bc | 53 | 85 | 47 | 8 | 5 | 4 | 5 | 2-3 | 4-6 | 3000 | 0 | 3 | 60 | 49 | 46 | Tr | - | 2·4 |
| Bristol | 17·6 | -6 | SE | 1 | b-bc | 47 | 97 | 47 | 7 | 1 | 4 | 1 | 2-3 | 2-3 | 4000 | 1 | * | 63 | 42 | 34 | - | Tr | 6·2 |
| Portland Bill | 16·7 | -22 | SW | 4 | c | 56 | 85 | 52 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 3 | 59 | 51 | * | - | - | * |
| Plymouth | 17·6 | -16 | SSW | 3 | Zo | 55 | 92 | 52 | 6 | 5 | 3 | - | 9 | 9+ | 700 | 1 | 2 | 56 | 51 | 51 | - | - | 0·0 |
| The Lizard | 16·3 | -12 | SW | 5 | c | 55 | 97 | 55 | 8 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 | 55 | 52 | * | Tr | Tr | 0·0 |
| Scilly (St. Mary's) | 15·4 | -18 | S'W | 3 | c | 56 | 97 | 56 | 7 | 5 | 5 | - | 10 | 10 | 1000 | 1 | 3 | 57 | 53 | * | 0·1 | Tr | 0·2 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 14·2 | -20 | SW'S | 4 | cq | 57 | 85 | 55 | 8 | 8 | - | - | 9+ | 9+ | 2000 | 1 | 3 | 56 | 54 | * | 0·2 | Tr | 0·2 |
| Holyhead (Valley) | 13·1 | -12 | SSW | 4 | c | 56 | 92 | 54 | 8 | 5 | 8 | - | 7-8 | 9 | 2000 | 1 | 3 | 59 | 54 | 49 | - | Tr | * |
| Chester (Sealand) | 13·5 | -12 | SE'E | 2 | c | 50 | 75 | 44 | 7 | - | 7 | 8 | 0 | 9+ | - | 0 | * | 71 | 50 | 40 | Tr | - | 6·6 |
| Manchester | 13·6 | -14 | SSE | 3 | c-bc | 53 | 65 | 40 | 8 | - | 7 | - | 0 | 7-8 | - | 1 | * | 64 | 53 | 43 | Tr | - | * |
| Spurn Head | 14·4 | -12 | SW'S | 3 | Zo | 54 | 75 | 46 | 6 | 5 | 4 | - | 4-6 | 7-8 | 2500 | 0 | 3 | 63 | 52 | * | Tr | - | 6·6 |
| Catterick | 12·9 | -12 | SSW | 2 | cf | 51 | 85 | 47 | 3 | 5 | 7 | - | 9+ | 10 | 600 | 0 | * | 65 | 50 | 45 | - | - | 2·0 |
| Tynemouth | 13·4 | -8 | SW | 1 | m | 52 | 85 | 49 | 4 | 5 | - | - | 9 | 9 | 2400 | 1 | 2 | 62 | 51 | 47 | - | - | * |
| St. Abbs Head | 10·9 | -14 | SW | 3 | c | 53 | 85 | 49 | 7 | 5 | 2 | - | 4-6 | 9+ | 2500 | 0 | 3 | 61 | 51 | * | - | - | * |
| Leuchars | 10·3 | -12 | SSW | 1 | Zo | 53 | 97 | 53 | 6 | 5 | 7 | - | 7-8 | 10 | 700 | 1 | * | 61 | 49 | 49 | Tr | 0·2 | 0·0 |
| Renfrew (Abbots I.) | 11·0 | -6 | W'N | 2 | d.d. | 52 | 97 | 52 | 5 | 5 | - | - | 10 | 10 | 1000 | 1 | * | 60 | 52 | 51 | Tr | 2 | 0·9 |
| Eskdalemuir | 11·3 | -16 | S | 3 | c/d | 51 | 97 | 50 | 6 | 5 | - | - | 10 | 10 | 200 | 1 | * | 56 | 50 | 50 | 0·3 | 0·3 | 0·0 |
| Point of Ayre | 11·6 | -12 | NW | 2 | c | 53 | 97 | 53 | 8 | 5 | 2 | - | 7-8 | 10 | 2500 | 0 | 1 | 63 | 46 | * | Tr | - | 2·7 |
| Tiree | 12·3 | -6 | W'S | 1 | c | 45 | 92 | 43 | 8 | 2 | 7 | - | 2-3 | 10 | 2500 | 1 | 1 | 55 | 43 | * | 2 | 0·4 | 0·0 |
| Stornoway | 10·4 | -2 | - | 0 | c-bc | 46 | 97 | 45 | 8 | 8 | 7 | - | 4-6 | 7-8 | 2500 | 1 | 1 | 58 | 44 | * | 0·5 | - | * |
| Dalwhinnie | 11·9 | -8 | N | 1 | ro | 48 | 97 | 48 | 5 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | * | 57 | 47 | 45 | 0·2 | 1 | 0·5 |
| Aberdeen † | 11·0 | -8 | NW'N | 2 | rr | 52 | 97 | 51 | 5 | 6 | 2 | - | 4-6 | 10 | 900 | 1 | 1 | 58 | 50 | 43 | 2 | 1 | 0·0 |
| Wick | 11·6 | -2 | NW | 1 | c | 48 | 92 | 47 | 7 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | * | 56 | 48 | 47 | 2 | Tr | * |
| Sumburgh | 10·8 | -6 | - | 0 | f+ | 48 | 97 | 48 | 2 | 5 | - | - | 4-6 | 9+ | 2000 | 1 | 3 | 49 | 48 | 36 | 7 | 2 | 0·0 |
| Blacksod Point | 13·9 | -4 | W | 1 | c-bc | 48 | 92 | 46 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | 2 | 56 | 43 | * | 2 | 0·3 | * |
| Malin Head | 12·3 | -8 | WNW | 2 | c | 50 | 85 | 46 | 8 | 8 | - | - | 10 | 10 | 2500 | 2 | 3 | 58 | 49 | | Tr | 1 | 0·0 |
| Aldergrove | 13·0 | -14 | - | 0 | rr | 51 | 97 | 49 | 5 | 5 | - | - | 10 | 10 | 400 | 1 | * | 58 | 49 | 49 | - | 4 | 1·0 |
| Birr Castle | 13·7 | -6 | SSW | 1 | c | 49 | 97 | 48 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * | 62 | 48 | 44 | - | 6 | 1·1 |
| Valentia Obsy. | 15·8 | -2 | S | 1 | c-bc | 46 | 97 | 45 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | 1 | 61 | 46 | 40 | 0·2 | 11 | 1·5 |
| Roches Point | 13·8 | -6 | NNW | 4 | ir | 49 | 97 | 48 | 8 | 6 | 2 | - | 4-6 | 9 | 1500 | 1 | 4 | 57 | * | * | Tr | 4 | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 19th October $C_L C_M$ | wwVh$N_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVh$N_h$ | DDFWN | 01h. G.M.T. 20th October $C_L C_M$ | wwVh$N_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVh$N_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 5- | 52628 | 19358 | 52 | 51846 | 20358 | 52 | 02755 | 21158 | 57 | 02863 | 00015 |
| 115 | | | | 54 | 02773 | 00065 | 54 | 02844 | 24285 | 53 | 02844 | 24226 |
| 203 | | | | | | | | | | | | |
| 206 | 57 | 21951 | 20456 | 53 | 01852 | 22115 | | | | 5- | 02775 | 24168 |
| 210 | | | | 59 | 01864 | 00027 | 02 | 62748 | 26268 | 02 | 62648 | 22168 |
| 220 | | | | 5- | 51418 | 21158 | | | | 52 | 02744 | 00028 |
| 230 | 5- | 52505 | 18188 | 5- | 54526 | 16158 | 5- | 51738 | 16168 | 17 | 02853 | 28258 |
| 245 | 59 | 22875 | 24267 | 53 | 02771 | 22267 | 57 | 05661 | 22127 | 5- | 22538 | 16168 |
| 260 | 57 | 02745 | 23226 | 5- | 08438 | 00028 | 52 | 02865 | 23128 | 52 | 02865 | 22327 |
| 278 | 57 | 02844 | 22357 | 5- | 02738 | 14328 | 5- | 57308 | 10258 | 52 | 52727 | 30458 |
| 279 | 57 | 05633 | 18657 | 5- | 05616 | 20528 | 52 | 02746 | 20258 | 52 | 05555 | 17328 |
| 285 | | | | | | | | | | 5- | 05638 | 22528 |
| 288 | 17 | 02851 | 26228 | 08 | 05690 | 28327 | 07 | 02790 | 19228 | 5- | 05068 | 00028 |
| 575 | 57 | 02845 | 22128 | 57 | 02847 | 00028 | 52 | 62747 | 00068 | 57 | 02744 | 00067 |
| 301 | 00 | 02730 | 26126 | 80 | 05452 | 04125 | 50 | 17371 | 08247 | 07 | 08190 | 02148 |
| 321 | 00 | 05690 | 20325 | 04 | 08190 | 00024 | 50 | 08451 | 18246 | 07 | 05590 | 16225 |
| 299 | 14 | 01752 | 24113 | 50 | 05753 | 24113 | 54 | 01763 | 22213 | 57 | 41444 | 22345 |
| 292 | 10 | 02951 | 22227 | 01 | 02790 | 23127 | 52 | 05661 | 00028 | 5- | 47365 | 00045 |
| 310 | -- | 01424 | 24244 | -- | 01633 | 24213 | | | | -- | 01634 | 24314 |
| 614 | | | | 50 | 05551 | 24224 | 01 | 08190 | 22228 | 00 | 05590 | 22125 |

| III | 13h. G.M.T. 19th October $C_L C_M$ | wwVh$N_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVh$N_h$ | DDFWN | 01h. G.M.T. 20th October $C_L C_M$ | wwVh$N_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVh$N_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 5- | 02637 | 17257 | 03 | 02890 | 11226 | 03 | 02890 | 16217 | 52 | 05636 | 17328 |
| 334 | -- | 01681 | 24402 | | | | | | | -- | 02653 | 24215 |
| 340 | | | | 03 | 02890 | 20225 | 00 | 02890 | 15216 | 04 | 04890 | 14127 |
| 136 | 5- | 05528 | 23358 | 53 | 08461 | 23223 | 08 | 25490 | 21288 | 09 | 05690 | 19216 |
| 336 | 00 | 00790 | 20400 | 59 | 01752 | 12313 | | | | 03 | 01790 | 16314 |
| 350 | 50 | 05641 | 22351 | 00 | 05690 | 20221 | 03 | 08490 | 22314 | 04 | 05690 | 21313 |
| 368 | 5- | 21627 | 22457 | 50 | 47613 | 25123 | -- | 48109 | 00049 | 53 | 43264 | 00044 |
| 379 | 00 | 05690 | 20250 | 00 | 05690 | 22301 | 03 | 05690 | 22202 | 54 | 05544 | 22315 |
| 390 | 50 | 41552 | 28242 | 00 | 47590 | 20200 | 03 | 45290 | 00041 | 04 | 45390 | 20241 |
| 382 | 00 | 05690 | 21100 | 04 | 01690 | 23201 | | | | 5- | 47118 | 16148 |
| 438 | 5- | 03628 | 24528 | 50 | 04433 | 23513 | 5- | 47351 | 20114 | -- | 46009 | 22349 |
| 430 | 50 | 05613 | 22313 | 00 | 05590 | 24100 | -- | 44209 | 24149 | 5- | 05038 | 18128 |
| 409 | 00 | 00690 | 22240 | 00 | 09790 | 14310 | 50 | 09723 | 14403 | 5- | 02337 | 16427 |

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 20th Oct.
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 * | dodo bmo | bzo bmo w | bmo wfew |
| Croydon | ofecmc | bmo bzo | bm, cmf |
| Greenwich | ofm | ombmo | bwc |
| Camden Square | o | b | * |
| *Kensington | ombc | bc | * |
| Hampstead | ofbc | of | |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·3 17-19hrs 19th. Min. Time 0·1 5-7 hrs 20th.

| 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 | 49 | 34 | Tr | Tr | 3·4 | * | * |
| Croydon | 65 | 46 | 45 | Tr | - | 3·6 | * | * |
| Greenwich | 65 | 46 | 34 | - | - | 2·8 | 68 | 91 |
| Westminster | 65 | 48 | 42 | - | - | | 74 | 98 |
| Regents Park | 65 | 48 | 46 | - | - | * | * | 69 |
| Camden Square | 64 | 49 | 47 | - | - | * | * | 97 |
| Kensington | 65 | 48 | 37 | - | Tr | * | 83 | 94 |
| Hampstead | 63 | 45 | 43 | - | - | * | * | 99 |

Page 1

# BRITISH SECTION

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

**SECRET**

Wednesday 21st October 1942

No. 29553

## OBSERVATIONS at 13h. G.M.T. 20th October

| 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) | 14·9 | -12 | SW'S | 3 | c/r | 57 | 85 | 52 | 6 | 5 | 7 | - | 7·8 | 10 | 2500 |
| | Croydon | 16·1 | -10 | SSW | 3 | c | 59 | 85 | 55 | 6 | 7 | 7 | - | 7·8 | 10 | 1800 |
| | S. Farnborough | 15·0 | -14 | SW'S | 3 | rr | 57 | 85 | 54 | 6 | 5 | - | - | 10 | 10 | 600 |
| | Boscombe Down | 15·2 | -14 | S | 3 | rr | 53 | 97 | 53 | 5 | 5 | 7 | - | 9 | 10 | 400 |
| | Thorney Island | 15·0 | -18 | SW | 2 | ir | 58 | 85 | 54 | 7 | 9 | 2 | - | 7·8 | 10 | 800 |
| | Lympne | 15·5 | -22 | SSW | 3 | c | 57 | 92 | 53 | 7 | 5 | - | 6 | 9 | 9+ | 1000 |
| | Manston | 14·9 | -14 | S | 3 | zo | 59 | 75 | 49 | 6 | 5 | - | 6 | 1 | 7·8 | 1000 |
| 2 | Shoeburyness | 15·7 | -14 | WSW | 3 | c-bc | 63 | 75 | 54 | 8 | 5 | - | 2 | 2-3 | 7·8 | 2500 |
| | Felixstowe | 15·7 | -10 | SSW | 4 | zo | 61 | 75 | 52 | 6 | 1 | 7 | 2 | 2-3 | 9 | 2500 |
| | Gorleston | 13·6 | -20 | WSW | 3 | zo | 64 | 65 | 52 | 6 | 5 | 7 | - | 2-3 | 7·8 | 2500 |
| | Mildenhall | 14·6 | 0 | SW'W | 4 | c/pr | 56 | 92 | 54 | 6 | - | 8 | - | 0 | 9+ | - |
| | Cranwell | 12·6 | +6 | SW'S | 3 | rr | 54 | 85 | 50 | 6 | 5 | 2 | - | 2-3 | 10 | 5000 |
| 3 | Birmingham | 12·6 | -18 | SSW | 2 | c | 53 | 85 | 49 | 7 | - | 7 | - | 0 | 10 | - |
| | Upper Heyford | 13·5 | -24 | SW'W | 2 | roro | 53 | 97 | 52 | 6 | 5 | 2 | - | 9+ | 10 | 500 |
| 4 | Ross-on-Wye | 12·8 | -16 | SSW | 3 | c | 56 | 85 | 50 | 7 | 5 | 1 | - | 7·8 | 10 | 2500 |
| 5 | Hartland Point | 13·7 | -12 | NW | 3 | c/r | 56 | 97 | 55 | 7 | 8 | 2 | - | 9+ | 10 | 1500 |
| | Bristol | 14·5 | -16 | S | 2 | c | 55 | 85 | 52 | 7 | 5 | 7 | - | 4·6 | 9+ | 2500 |
| | Portland Bill | 15·7 | -6 | SW | 4 | rr | 59 | 92 | 57 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 14·8 | -16 | SW | 5 | c/r | 58 | 97 | 57 | 6 | 5 | 7 | - | 9 | 10 | 700 |
| | The Lizard | 15·2 | +4 | NW | 5 | rr | 54 | 92 | 52 | 6 | 8 | 2 | - | 10 | 10 | 800 |
| | Scilly (St. Mary's) | 16·5 | +10 | NW'W | 5 | c | 56 | 85 | 50 | 8 | 8 | 6 | - | 4·6 | 9 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 13·3 | 0 | NW'N | 5 | roro | 53 | 92 | 51 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 7 | Holyhead (Valley) | 12·0 | -6 | W | 3 | rr | 52 | 97 | 51 | 6 | 5 | 2 | - | 9+ | 10 | 600 |
| | Chester (Sealand) | 10·6 | -20 | NW | 1 | c | 58 | 75 | 52 | 6 | 5 | 2 | - | 9 | 10 | 3000 |
| 8 | Manchester | 11·5 | -18 | S'E | 4 | iro | 56 | 85 | 50 | 6 | 5 | 7 | - | 4·6 | 10 | 3000 |
| 10 | Spurn Head | 11·6 | -14 | SW | 4 | ir | 56 | 75 | 48 | 6 | 5 | 2 | - | 7·8 | 10 | 3800 |
| | Catterick | 10·1 | -20 | WSW | 3 | c | 58 | 75 | 50 | 7 | 5 | 7 | - | 4·6 | 10 | 2000 |
| | Tynemouth | 10·1 | -20 | WSW | 3 | c/f | 60 | 75 | 50 | 6 | 8 | - | 9 | 9+ | 9+ | 2100 |
| 11 | St. Abbs Head | 08·8 | -8 | WNW | 3 | c | 53 | 92 | 51 | 7 | 5 | 4 | - | 9 | 9+ | 1600 |
| | Leuchars | 08·2 | -10 | WNW | 2 | c/r | 54 | 97 | 53 | 8 | 8 | 7 | - | 7·8 | 9 | 2000 |
| 12 | Renfrew (Abbots I.) | 10·2 | -4 | WNW | 3 | c | 55 | 75 | 45 | 8 | 2 | 3 | 6 | 4·6 | 9 | 2500 |
| | Eskdalemuir | 09·2 | -8 | WNW | 3 | c | 51 | 85 | 47 | 7 | 5 | - | - | 10 | 10 | 1400 |
| | Point of Ayre | 11·4 | -2 | NW'N | 4 | c | 53 | 85 | 49 | 8 | 5 | 2 | - | 7·8 | 10 | 3000 |
| 13A | Tiree | 11·4 | -2 | W'S | 3 | b-bc | 54 | 75 | 46 | 8 | 3 | 4 | 5 | Tr | 2-3 | 2500 |
| 13B | Stornoway | 09·3 | -4 | SW | 2 | bc | 52 | 85 | 47 | 8 | 3 | 6 | 3 | 4-6 | 4-6 | 2500 |
| 15 | Dalwhinnie | 10·8 | -4 | N | 2 | c | 48 | 85 | 43 | 8 | 5 | 3 | - | 4·6 | 9 | 2500 |
| | Aberdeen | 08·0 | -6 | NW'N | 3 | dr | 51 | 97 | 50 | 5 | 6 | 2 | - | 7·8 | 10 | 700 |
| | Wick | 10·8 | -6 | WNW | 1 | PR | 49 | 92 | 47 | 6 | 9 | 2 | - | 4·6 | 10 | 1000 |
| 16 | Sumburgh | 08·5 | -18 | N | 2 | zo | 50 | 97 | 50 | 7 | 5 | 2 | - | 9+ | 10 | 1500 |
| 17 | Blacksod Point | 14·8 | +6 | W'S | 3 | bc | 54 | 75 | 47 | 8 | 8 | - | 6 | 2-3 | 4·6 | 4000 |
| 18 | Malin Head | 12·1 | -2 | NW | 3 | c-bc | 53 | 75 | 46 | 8 | 2 | - | 1 | 4-6 | 7·8 | 2500 |
| | Aldergrove | 12·6 | -2 | WNW | 3 | bc | 54 | 75 | 45 | 8 | 2 | - | 1 | 4-6 | 4·6 | 3000 |
| 19 | *Birr Castle | 14·2 | +2 | W | 2 | bc | 55 | 75 | 46 | 8 | 4 | - | - | 4·6 | 4-6 | 1500 |
| 20 | Valentia Obsy. | 17·4 | +10 | WNW | 4 | b-bc | 54 | 75 | 47 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| | Roches Point | 15·8 | +2 | N'W | 3 | c-bc/pr | 55 | 75 | 48 | 8 | 3 | 3 | - | 4-6 | 7·8 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 20th October

| 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) | 10·9 | -30 | SSW | 2 | iro | 55 | 97 | 53 | 6 | 5 | 2 | - | 9 | 10 | 1500 | 1 | * |
| Croydon | 11·5 | -30 | SW | 3 | iro | 54 | 97 | 54 | 6 | 6 | 7 | - | 7·8 | 10 | 800 | 1 | * |
| S. Farnborough | 11·1 | -30 | SSW | 3 | roro | 53 | 97 | 52 | 5 | 5 | 2 | - | 9+ | 10 | 400 | 1 | * |
| Boscombe Down | 11·9 | -20 | W | 5 | c/r | 53 | 92 | | 7 | 5 | - | - | 9+ | 9+ | 600 | 1 | * |
| Thorney Island | 12·5 | -20 | SSW | 5 | RR | 57 | 97 | 56 | 4 | 6 | 2 | - | 10 | 10 | 800 | 1 | * |
| Lympne | 13·6 | -14 | SSW | 1 | jr | 55 | 97 | 54 | 6 | 5 | 7 | - | 9 | 10 | 900 | 1 | §3 |
| Manston | 13·1 | -10 | SW | 1 | c/r | 55 | 85 | 53 | 5 | 5 | 7 | - | 9 | 10 | 1000 | 1 | * |
| Shoeburyness | 13·4 | -12 | S'W | 2 | iR | 56 | 97 | 55 | 4 | 5 | - | - | 10 | 10 | 400 | 1 | * |
| Felixstowe | 12·4 | -14 | S'E | 4 | rr | 56 | 97 | 55 | 4 | 6 | 2 | - | 9 | 10 | 1700 | 1 | 2 |
| Gorleston | 11·3 | -20 | S'W | 4 | rr | 57 | 85 | 53 | 6 | 6 | - | - | 10 | 10 | 1000 | 1 | 4 |
| Mildenhall | 10·6 | -20 | S'W | 2 | roro | 54 | 97 | 53 | 5 | 5 | 2 | - | 4-6 | 10 | 1100 | 1 | * |
| Cranwell | 09·2 | -20 | S'E | 3 | zo | 51 | 97 | 50 | 6 | 5 | 7 | - | 7-8 | 9+ | 4500 | 1 | * |
| Birmingham | 10·4 | -12 | NW | 5 | rr | 51 | 92 | 49 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 10·0 | -20 | S | 2 | roro | 53 | 97 | 49 | 5 | 5 | 2 | - | 9+ | 10 | 400 | 1 | * |
| Ross-on-Wye | 11·6 | +12 | W'N | 5 | pr | 51 | 75 | 45 | 8 | - | 2 | - | 9+ | 9+ | 2500 | 1 | * |
| Hartland Point | 15·2 | +18 | NW | 4 | c | 54 | 85 | 48 | 8 | 2 | 4 | - | 7-8 | 9 | 2500 | 1 | 4 |
| Bristol | 13·1 | +12 | W'N | 5 | bc/r | 50 | 92 | 48 | 6 | 8 | - | - | 4-6 | 4·6 | 1500 | 1 | * |
| Portland Bill | 13·7 | +10 | WNW | 5 | c | 57 | 92 | | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| Plymouth | 16·3 | +18 | WNW | 5 | b-bc | 52 | 85 | 46 | 6 | 2 | - | - | 2-3 | 2-3 | 2500 | 0 | 4 |
| The Lizard | 17·4 | +12 | NN'W | 5 | bc | 53 | 85 | 49 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 | 1 | 4 |
| Scilly (St. Mary's) | 18·5 | +14 | WNW | 5 | bc | 53 | 75 | 46 | 8 | 8 | - | - | 4·6 | 4-6 | 1200 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 15·4 | +14 | NW'N | 5 | cjp | 53 | 75 | 47 | 8 | 6 | 4 | - | 4-6 | 7-8 | 1500 | 1 | 3 |
| Holyhead (Valley) | 13·5 | +14 | NW | 5 | pr | 52 | 85 | 47 | 8 | 8 | 7 | - | 7·8 | 9+ | 2000 | 1 | 4 |
| Chester (Sealand) | 11·5 | +6 | NW | 4 | c/r | 51 | 92 | 49 | 6 | 5 | 2 | - | 4-6 | 10 | 2000 | 1 | * |
| Manchester | 11·3 | +18 | W'N | 4 | rr | 48 | 97 | 47 | 5 | 6 | 2 | - | 9 | 10 | 450 | 1 | * |
| Spurn Head | 09·0 | -14 | SW | 4 | zo | 53 | 85 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | 3 |
| Catterick | 09·2 | +2 | NW | 2 | roro | 50 | 85 | 49 | 6 | 5 | 2 | - | 7-8 | 10 | 2000 | 1 | * |
| Tynemouth | 10·0 | +2 | NNW | 3 | ir | 50 | 92 | 48 | 6 | - | 2 | - | 10 | 10 | 1500 | 1 | 3 |
| St. Abbs Head | 09·3 | +4 | N | 3 | c/pr | 50 | 85 | 46 | 7 | 6 | - | - | 9+ | 9+ | 2000 | 0 | 3 |
| Leuchars | 09·6 | +16 | WNW | 2 | c | 50 | 85 | 45 | 9 | 8 | - | 8 | 9 | 9+ | 3500 | 1 | * |
| Renfrew (Abbots I.) | 11·2 | +14 | WSW | 3 | bc | 47 | 85 | 42 | 8 | 2 | 4 | 5 | 1 | 4-6 | 2500 | 1 | * |
| Eskdalemuir | 10·5 | +10 | WNW | 2 | c | 47 | 85 | 42 | 8 | 5 | 7 | - | 4-6 | 9 | 1800 | 1 | * |
| Point of Ayre | 12·1 | +8 | W'N | 5 | bc | 53 | 85 | 47 | 8 | 2 | 4 | - | 2-3 | 4·6 | 2000 | 1 | 4 |
| Tiree | 11·6 | +4 | W'N | 3 | bcjp | 49 | 85 | 43 | 8 | 3 | - | 2 | 2-3 | 4·6 | 2200 | 1 | |
| Stornoway | 05·6 | 0 | SW | 2 | c-bc/pr | 48 | 92 | 44 | 8 | 3 | 6 | 5 | 4·6 | 7·8 | 2500 | 1 | 2 |
| Dalwhinnie | 10·2 | +2 | - | 0 | bc | 41 | 85 | 39 | 8 | 8 | 4 | - | 2-3 | 4-6 | 4000 | 1 | * |
| Aberdeen | 09·4 | +10 | NW'W | 3 | zo | 47 | 85 | 43 | 6 | 5 | 3 | - | 1 | 4·6 | 2500 | 1 | 1 |
| Wick | 09·2 | -6 | WSW | 1 | c-bc | 44 | 85 | 42 | 9 | 5 | 7 | - | 4·6 | 7·8 | 3000 | 1 | * |
| Sumburgh | 06·9 | -8 | NNW | 1 | iro | 47 | 92 | 45 | 6 | - | 2 | - | 10 | 10 | 2000 | 1 | 3 |
| Blacksod Point | 16·6 | +14 | W | 3 | bc | 51 | 75 | 43 | 8 | 8 | - | - | 4·6 | 4-6 | 4000 | 1 | 3 |
| Malin Head | 12·6 | +6 | W | 4 | c-bc | 51 | 85 | 47 | 8 | 2 | - | 4 | 2-3 | 7-8 | 2500 | 2 | 3 |
| Aldergrove | 13·7 | +14 | WNW | 2 | bc | 49 | 85 | 44 | 9 | 8 | - | 2 | 4·6 | 4-6 | 2500 | 1 | * |
| *Birr Castle | 16·1 | +14 | S | 2 | bc | 49 | 85 | 45 | 8 | 5 | 4 | - | 2-3 | 4·6 | 2500 | 1 | * |
| Valentia Obsy. | 20·1 | +20 | NW'W | 4 | bc | 52 | 65 | 41 | 8 | 2 | - | - | 2-3 | 4-6 | 2500 | 1 | 4 |
| Roches Point | 18·2 | +22 | SW'W | 4 | b-bc | 52 | 75 | 45 | 8 | 3 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |

## PAST 24 HOURS. WEATHER.

| Stations | 7h.–13h. 20th (39) | 13h.–18h. 20th (40) | 18h. 20th to 1h. 21st (41) | 1h.–7h. 21st (42) |
|---|---|---|---|---|
| London (Kew) | crocmo | grRcro | crircb | bw |
| Croydon | cmo | crirorrm | cmobcmo | bemobmo |
| S. Farnborough | ocmoiror | rRcromo | cbbc | bebw |
| Boscombe Down | cidorr | crrmo | cbcb | bw |
| Thorney Island | ocdoir | croRRmomb | | b |
| Lympne | fcmoc | ccirmo | cormocq | ebcbwb |
| Manston | fbcmo | crrmo | cmoRRmbcmo | bzocmobmo |
| Shoeburyness | crmobc | cirociRm | ciRmor | bewmob |
| Felixstowe | bcmobmo | cmoromotlm | orrmciroc | cbc |
| Gorleston | czo | ctirozoorr | orrir | orbcq |
| Mildenhall | bcmocpcmo | cmocrorocrmo | crrmo | crrmocmb |
| Cranwell | cprrr | crrcmo | crrmocmo | bmo |
| Birmingham | c | corq | prrc | cbc |
| Upper Heyford | bffdodo | rorocmorobc | | beeprob |
| Ross-on-Wye | bccpoc | cdocro | rbcb | bebbc |
| Hartland Point | bccidiroc | cir | ctrbc | betrc |
| Bristol | ccroroc | ciRirmo | bcb | bbcbbc |
| Portland Bill | orr | c | c | c |
| Plymouth | cmoiro | cidorcb | bbcprcb | bbcmo |
| The Lizard | cprrr | rrcbc | bc | bc |
| Scilly (St. Mary's) | crbc | bccbc | bc | bcc |
| Guernsey | | | | |
| Pembroke | cirroroc | cprcp | bc | becq |
| Holyhead (Valley) | crrmo | crrc | cprobc | bcb |
| Chester (Sealand) | cmozo | czoirrr | cmopr | bc |
| Manchester | czo | irorr | rr rorobc | bcpr. |
| Spurn Head | irc | cmo | rrcq | bc |
| Catterick | cfmocfc | ocmocroo | rcmobc | bcb |
| Tynemouth | cffc | coir | pirbcb | bcb |
| St. Abbs Head | c | cprm | bcb | b |
| Leuchars | cmocidomciro | c | cbcbbc | bw |
| Renfrew (Abbots I.) | croroc | cbccbc | bcpr.c | bcpr. |
| Eskdalemuir | ofdrocv | cvc | cbc | bc |
| Point of Ayre | cddc | procbc | probc | bbcb |
| Tiree | cbc | bccprobc | PR prbc | bcproc |
| Stornoway | cbc | bcc | bcpr | bcpr |
| Dalwhinnie | oirc | c | * | cpr. |
| Aberdeen | cRRmodo | crorobc | bczo | bcb |
| Wick | ccpr | bc | bc | bcprbc |
| Sumburgh | cfprocmo | crrroromo | crorm.c | cbcprbc |
| Blacksod Point | bc | bc | bc | r |
| Malin Head | c | c | pr | pr |
| Aldergrove | cbc | ccproc | bc | bc |
| *Birr Castle | bc | bc | * | pr |
| Valentia Obsy. | pr | pr | pr | r |
| Roches Point | pr | pr | b | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 21st October 1942.

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands | Moderate or fresh West to Southwest wind, strong locally later; fine at first, rain later; rather cold becoming warmer. |
| 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England | Freshening South wind strong locally veering West to Northwest; cloudy, occasional rain; rather cold becoming warmer. |
| 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland | Freshening South wind strong locally veering West to Northwest later; fair at first, rain later; rather cold becoming warmer temporarily. |
| 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland | Freshening South wind strong locally veering West to Northwest; dull, some rain; rather cold becoming warmer. |
| 14 Mid Scotland; 15 N.E. Scotland | As 9-11 |
| 16 Orkneys and Shetlands | As 9-11 |
| 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland | As 5-8 |

### GENERAL INFERENCE

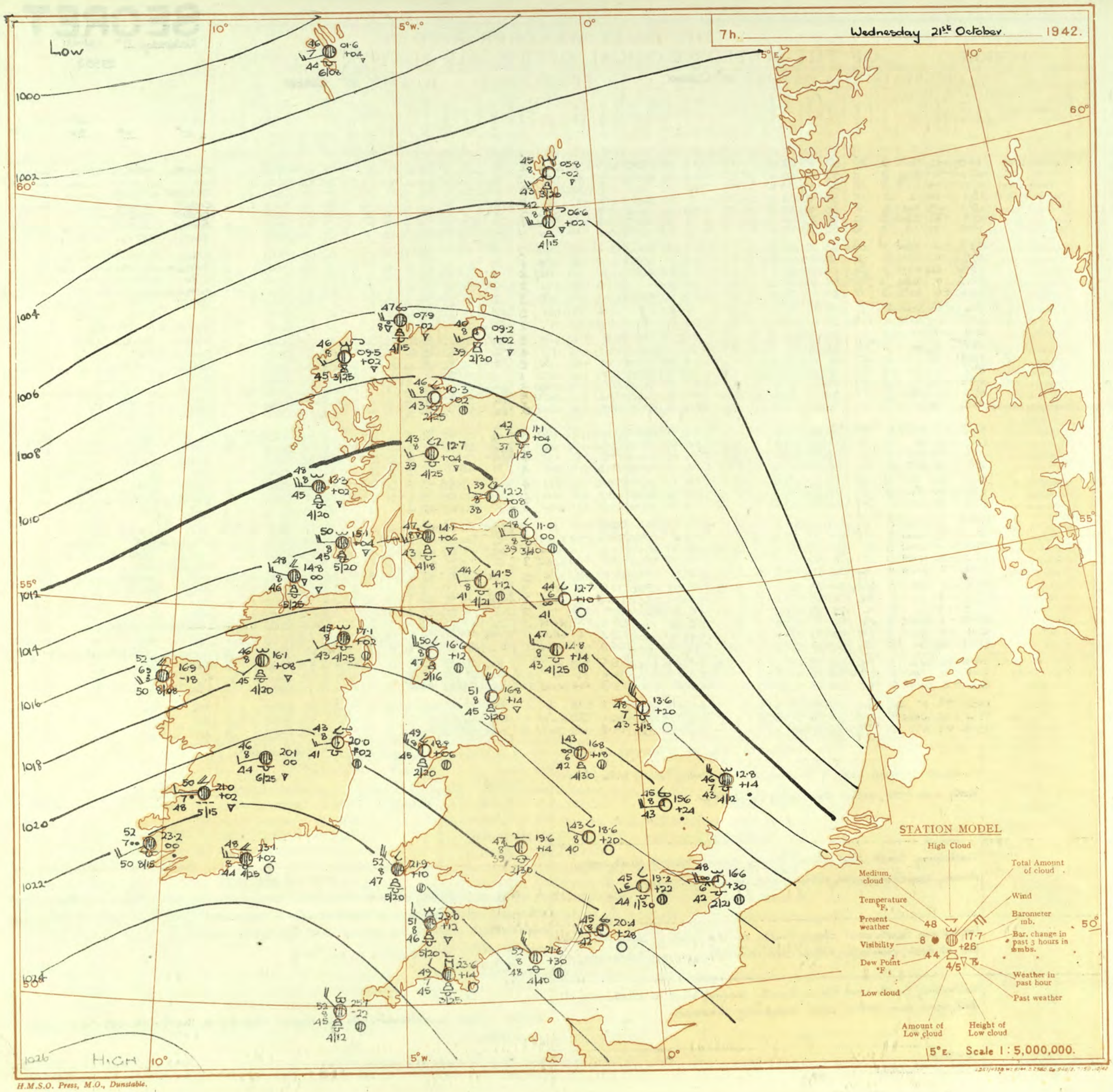
A wedge of high pressure over the British Isles is moving east; a deepening depression estimated west-northwest of Scotland and an associated warm front west of Ireland are moving east. Rain in the extreme west will spread eastwards to all districts but weather will be fine at first in the East.

### FURTHER OUTLOOK

Variable cloud and showers in the North. Cloudy in the South with local rain or drizzle.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

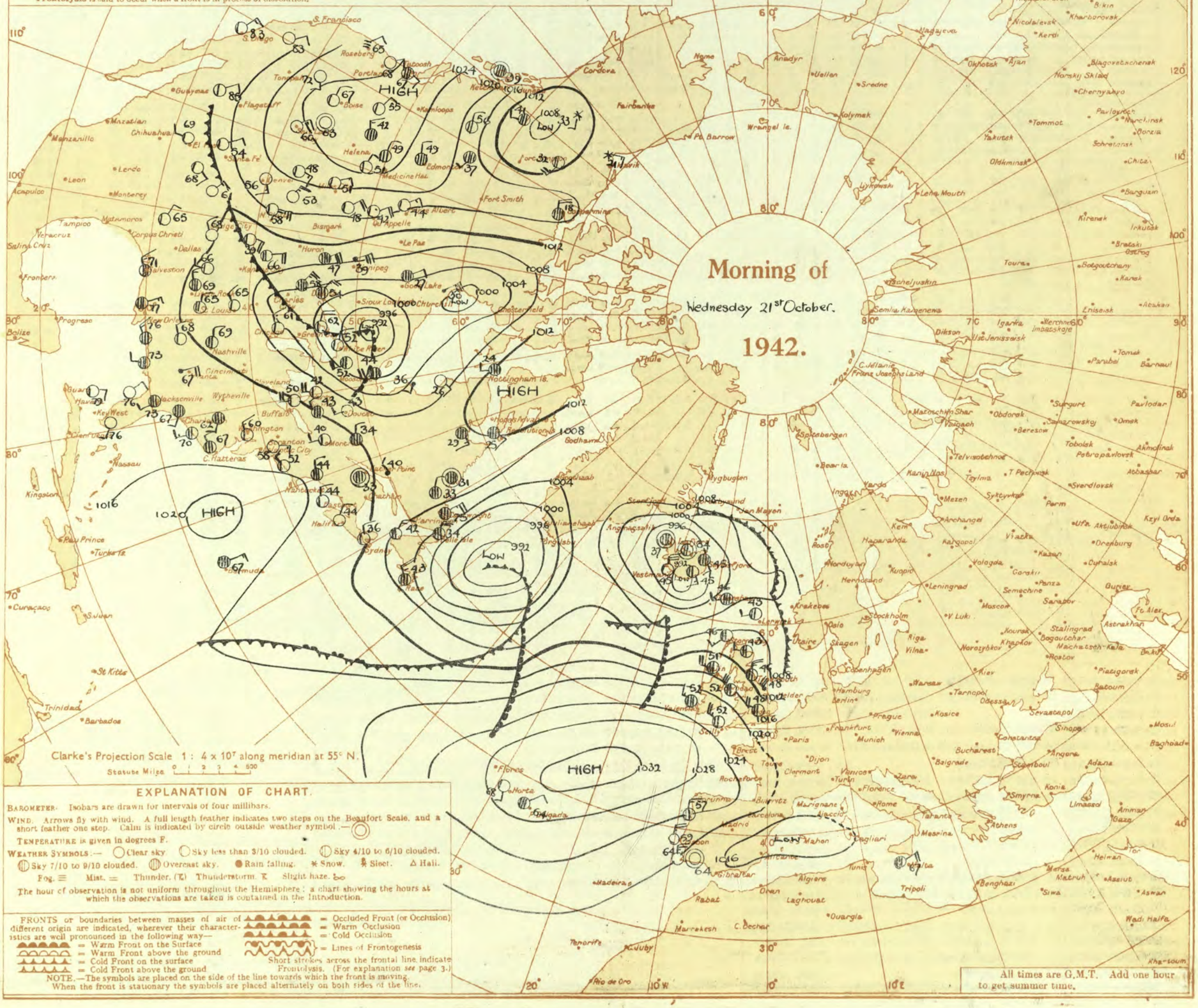
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

Page 4. BRITISH SECTION

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

Wednesday 21st October 1942

No. 29503

## OBSERVATIONS at 1 hr. G.M.T. 21st October

| 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 | * | * | * | * | * | 49 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 15·1 | +6 | W | 4 | Zo | 48 | 85 | 45 | 6 | 5 | - | - | 4-6 | 4-6 | 2000 |
| | S. Farnborough | 226 | 14·6 | +8 | W'N | 3 | bc | 47 | 85 | 43 | 8 | - | 5 | - | 0 | 4-6 | - |
| | Boscombe Down | 417 | 16·8 | +16 | W'N | 4 | b | 46 | 92 | 44 | 7 | - | - | - | 0 | 0 | - |
| | Thorney Island | 10 | 16·0 | +16 | W'N | 4 | b | 48 | 85 | 45 | 8 | - | 4 | - | 0 | Tr | - |
| | Lympne | 283 | 14·1 | +26 | W | 3 | c | 46 | 92 | 43 | 8 | 5 | - | - | 9 | 9 | 2000 |
| | Manston | 154 | 12·4 | +18 | W | 5 | Zo | 48 | 75 | 41 | 6 | 5 | - | - | 1 | 1 | 2100 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 10·9 | +18 | W | 6 | c | 48 | 85 | 43 | 7 | - | 7 | - | 0 | 9+ | - |
| | Gorleston | 5 | 07·3 | -4 | NW'W | 5 | ir | 49 | 85 | 46 | 7 | 6 | - | - | 10 | 10 | 800 |
| | Mildenhall | 15 | 11·8 | +30 | W'N | 5 | rr | 46 | 92 | 44 | 6 | 5 | 2 | - | 4-6 | 10 | 2500 |
| | Cranwell | 203 | 11·5 | +14 | WNW | 3 | c/r | 45 | 97 | 44 | 6 | 5 | 7 | - | 7-8 | 10 | 2200 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 15·1 | +18 | NW | 3 | bc | 47 | 85 | 43 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 19·1 | +14 | NW | 4 | bc | 53 | 75 | 43 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 17·8 | +16 | W | 3 | b | 46 | 92 | 43 | 7 | - | - | - | 0 | 0 | - |
| | Portland Bill | 32 | 16·8 | +10 | WNW | 8 | c-bc | 55 | 92 | 53 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 82 | 20·1 | +14 | W | 4 | b | 50 | 85 | 45 | 8 | 2 | - | - | 1 | 1 | 2500 |
| | The Lizard | 240 | 21·3 | +12 | NW | 5 | b-bc | 51 | 75 | 45 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 |
| | Scilly (St. Mary's) | 163 | 22·6 | +18 | NW'W | 5 | bc | 52 | 75 | 42 | 8 | 8 | - | - | 4-6 | 4-6 | 1500 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 20·0 | +16 | NW | 6 | c-bc | 52 | 85 | 46 | 8 | 5 | 4 | - | 4-6 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 32 | 16·9 | +14 | NW'W | 4 | c-bc | 49 | 85 | 44 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| | Chester (Sealand) | 16 | 14·6 | +14 | NW | 3 | bc | 50 | 92 | 49 | 7 | 2 | 4 | - | 2-3 | 4-6 | 2500 |
| 8 | Manchester | 235 | 14·1 | +18 | W | 2 | bc | 44 | 92 | 43 | 7 | 3 | 3 | - | 2-3 | 4-6 | 2500 |
| 10 | Spurn Head | 29 | 09·6 | +28 | NW | 6 | rr | 48 | 85 | 45 | 7 | 9 | 2 | - | 7-8 | 10 | 1500 |
| | Catterick | 175 | 12·5 | +10 | NNW | 3 | bc | 47 | 85 | 40 | 7 | - | 3 | - | 0 | 4-6 | - |
| | Tynemouth | 108 | 11·3 | +6 | NNW | 3 | bc | 46 | 75 | 40 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | St. Abbs Head | 280 | 10·2 | 0 | WNW | 3 | b-bc | 47 | 85 | 43 | 7 | 5 | 4 | - | 2-3 | 2-3 | 2500 |
| | Leuchars | 36 | 10·9 | +2 | ~ | 0 | c-bc | 41 | 97 | 39 | 8 | - | - | 6 | 0 | 7-8 | .. |
| 12 | Renfrew (Abbots I.) | 19 | 12·6 | +4 | WSW | 3 | c-bc | 47 | 85 | 43 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 14·6 | +10 | NW'N | 5 | b-bc | 51 | 85 | 46 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| 13A | Tiree | 22 | 12·8 | +6 | W | 4 | pr | 49 | 85 | 45 | 8 | 2 | - | - | 4-6 | 4-6 | 2000 |
| 13B | Stornoway | 80 | 08·8 | -2 | SW | 3 | bc/pr | 46 | 97 | 45 | 8 | 3 | 6 | - | 2-3 | 4-6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 10·0 | 0 | W'N | 2 | bc | 43 | 85 | 40 | 9 | - | 7 | - | 0 | 4-6 | - |
| | Wick | 114 | 09·2 | -2 | SW | 3 | bc | 41 | 92 | 39 | 9 | 5 | 7 | - | 1 | 4-6 | 2500 |
| 16 | Sumburgh | 19 | 06·3 | -2 | NW | 4 | c-bc | 49 | 85 | 44 | 8 | 2 | - | 6 | 4-6 | 7-8 | 2500 |
| 17 | Blacksod Point | 18 | 18·7 | +4 | W'N | 4 | b-bc | 50 | 75 | 42 | 8 | 8 | - | - | 2-3 | 2-3 | 4000 |
| 18 | Malin Head | 84 | 14·2 | +6 | WNW | 5 | bc | 51 | 85 | 47 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Aldergrove | 268 | 16·0 | +6 | W | 3 | b | 47 | 95 | 43 | 8 | 5 | - | - | Tr | Tr | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 22·9 | +6 | WNW | 3 | c | 52 | 75 | 44 | 8 | 8 | - | - | 9+ | 9+ | 2500 |
| | Roches Point | 22 | 21·8 | +10 | N'W | 4 | b | 48 | 85 | 44 | 8 | 5 | 4 | - | Tr | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 21st October

| 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) | 19·0 | +22 | W'S | 2 | b-bc | 46 | 85 | 42 | 8 | - | 4 | - | 0 | 2-3 | - | 1 | * |
| Croydon | 19·2 | +22 | WSW | 3 | b-bc | 45 | 97 | 44 | 6 | 5 | 4 | - | Tr | 2-3 | 3000 | 1 | * |
| S. Farnborough | 19·7 | +26 | W'S | 3 | b | 43 | 92 | 40 | 8 | - | 4 | - | 0 | 1 | - | 1 | * |
| Boscombe Down | 20·4 | +16 | W | 3 | bc | 43 | 92 | 40 | 7 | - | - | 6 | 0 | 4-6 | - | 0 | * |
| Thorney Island | 20·4 | +28 | W'N | 3 | b | 45 | 92 | 42 | 8 | - | 7 | - | 0 | 1 | - | 1 | * |
| Lympne | 18·0 | +28 | WNW | 5 | b | 45 | 85 | 42 | 8 | - | - | - | 0 | 0 | - | 1 | §3 |
| Manston | 16·6 | +30 | W | 4 | Zo | 48 | 85 | 42 | 6 | 5 | 3 | - | 1 | 1 | 2100 | 1 | * |
| Shoeburyness | 16·8 | +20 | W | 3 | Zo | 46 | 85 | 42 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Felixstowe | 15·2 | +30 | W'S | 5 | b-bc | 48 | 85 | 43 | 7 | 5 | 7 | - | Tr | 2-3 | 1500 | 1 | 3 |
| Gorleston | 12·8 | +14 | NW | 5 | cq | 46 | 85 | 43 | 7 | 5 | 3 | - | 4-6 | 10 | 1200 | 1 | 3 |
| Mildenhall | 15·6 | +24 | W | 4 | b | 45 | 92 | 43 | 8 | - | 7 | - | 0 | 1 | - | 1 | * |
| Cranwell | 15·5 | +20 | W | 3 | Zo | 44 | 92 | 42 | 6 | - | 7 | - | 0 | 1 | - | 1 | * |
| Birmingham | 18·1 | +14 | S | 4 | Zo | 45 | 92 | 43 | 6 | - | 7 | - | 0 | 1 | - | 1 | * |
| Upper Heyford | 18·6 | +20 | WNW | 2 | b-bc | 43 | 92 | 40 | 8 | - | 4 | - | 0 | 2-3 | - | 1 | * |
| Ross-on-Wye | 19·6 | +14 | W | 3 | bc | 47 | 75 | 38 | 8 | 4 | - | 2 | 1 | 4-6 | 3000 | 1 | * |
| Hartland Point | 22·0 | +12 | NW | 3 | c | 51 | 85 | 46 | 8 | 8 | 6 | - | 7-8 | 9 | 2000 | 1 | 4 |
| Bristol | 21·3 | +18 | S | 1 | bc | 46 | 97 | 45 | 7 | - | - | 2 | 0 | 4-6 | - | 1 | * |
| Portland Bill | 21·6 | +30 | NW | 5 | c | 52 | 85 | 48 | 8 | 4 | - | - | 4-6 | 9 | 4000 | 1 | 5 |
| Plymouth | 23·6 | +14 | WNW | 2 | c-bc | 49 | 85 | 45 | 7 | 8 | 8 | 2 | 2-3 | 7-8 | 2500 | 0 | 3 |
| The Lizard | 24·1 | +16 | NW | 4 | bc | 51 | 85 | 47 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2000 | 0 | 4 |
| Scilly (St. Mary's) | 25·1 | +14 | NW'W | 4 | c-bc | 52 | 75 | 45 | 8 | 8 | 7 | - | 4-6 | 7-8 | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 21·9 | +10 | NW | 5 | cq | 52 | 85 | 47 | 8 | 8 | 4 | - | 7-8 | 9 | 2000 | 1 | 3 |
| Holyhead (Valley) | 18·8 | +6 | WNW | 5 | b-bc | 49 | 85 | 45 | 8 | 2 | 4 | - | 1 | 2-3 | 2000 | 1 | 3 |
| Chester (Sealand) | 17·7 | +14 | W | 3 | c-bc | 49 | 97 | 49 | 7 | 2 | - | 3 | 4-6 | 7-8 | 3000 | 1 | * |
| Manchester | 17·0 | +14 | NW | 3 | Zo | 47 | 92 | 44 | 6 | 3 | 4 | 9 | 4-6 | 4-6 | 2500 | 1 | * |
| Spurn Head | 13·6 | +20 | NW'W | 7 | b-bc | 48 | 85 | 43 | 7 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | 4 |
| Catterick | 14·8 | +14 | WNW | 3 | b | 47 | 85 | 41 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| Tynemouth | 12·7 | +10 | W | 1 | Zo | 44 | 85 | 41 | 6 | - | 4 | - | 0 | 2-3 | 7200 | 1 | 3 |
| St. Abbs Head | 11·0 | 0 | W | 4 | b-bc | 48 | 75 | 39 | 8 | 5 | 4 | - | 2-3 | 2-3 | 4000 | 0 | 4 |
| Leuchars | 12·2 | +8 | WNW | 2 | b-bc | 39 | 97 | 38 | 8 | - | 4 | 5 | 0 | 2-3 | - | 1 | * |
| Renfrew (Abbots I.) | 14·1 | +6 | W'S | 3 | pr | 47 | 85 | 43 | 8 | 8 | 4 | - | 4-6 | 7-8 | 1800 | 1 | * |
| Eskdalemuir | 14·5 | +12 | W | 2 | c-bc | 44 | 85 | 41 | 8 | 5 | 4 | - | 4-6 | 7-8 | 2100 | 1 | * |
| Point of Ayre | 16·6 | +12 | NW'W | 5 | b-bc | 50 | 85 | 47 | 8 | 2 | 4 | - | 2-3 | 2-3 | 1600 | 0 | 4 |
| Tiree | 13·3 | +2 | W | 4 | c | 48 | 92 | 45 | 8 | 8 | 3 | - | 4-6 | 9 | 2000 | 1 | · |
| Stornoway | 09·5 | +2 | SW | 3 | bc | 46 | 97 | 45 | 8 | 3 | 6 | 3 | 2-3 | 4-6 | 2500 | 1 | 2 |
| Dalwhinnie | 12·7 | +4 | WSW | 3 | c-bc | 43 | 85 | 39 | 8 | 5 | 4 | 9 | 4-6 | 7-8 | 2500 | 1 | * |
| Aberdeen † | 11·1 | +4 | W'S | 2 | b | 42 | 85 | 37 | 7 | 5 | - | - | Tr | Tr | 3500 | 1 | 1 |
| Wick | 09·2 | +2 | WSW | 3 | b | 40 | 92 | 39 | 8 | 3 | 4 | - | 1 | 1 | 3000 | 1 | * |
| Sumburgh | 06·6 | +2 | W | 5 | bc/pr | 49 | 85 | 45 | 8 | 2 | 6 | 3 | 4-6 | 4-6 | 1500 | 1 | 3 |
| Blacksod Point | 16·9 | -18 | SW | 4 | Dr | 52 | 92 | 50 | 6 | - | 2 | - | 10 | 10 | 800 | 1 | 3 |
| Malin Head | 14·8 | 0 | W'N | 3 | c/pr | 48 | 92 | 46 | 8 | 8 | 2 | - | 7-8 | 9 | 2500 | 2 | 4 |
| Aldergrove | 17·1 | +2 | SW | 2 | c | 45 | 92 | 43 | 8 | 5 | 3 | - | 4-6 | 9 | 2500 | 1 | * |
| Birr Castle | 20·1 | 0 | SW | 1 | c | 46 | 92 | 44 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Valentia Obsy. | 23·2 | 0 | SW'W | 4 | rr | 52 | 92 | 50 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Roches Point | 23·1 | +2 | WNW | 3 | c | 48 | 85 | 44 | 8 | 5 | 3 | - | 4-6 | 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 20th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 57 | 46 | 40 | 13 | 1 | 0·0 |
| Croydon | 61 | 44 | 41 | 16 | 4 | 0·1 |
| S. Farnborough | 58 | 42 | 37 | 11 | 1 | 0·0 |
| Boscombe Down | 55 | 42 | 37 | 13 | Tr | 0·0 |
| Thorney Island | 59 | 43 | 38 | 13 | 2 | * |
| Lympne | 57 | 43 | 40 | 0·3 | 13 | 0·1 |
| Manston | 60 | 48 | 45 | 0·4 | 12 | * |
| Shoeburyness | 63 | 45 | 40 | 4 | 7 | 3·2 |
| Felixstowe | 62 | 47 | 44 | 3 | 7 | 5·4 |
| Gorleston | 65 | 46 | 43 | 2 | 13 | 5·5 |
| Mildenhall | 62 | 44 | 41 | 5 | 7 | 3·0 |
| Cranwell | 60 | 43 | 40 | 4 | 6 | 0·6 |
| Birmingham | 54 | 42 | 38 | 1 | 4 | 0·1 |
| Upper Heyford | 53 | 43 | 38 | 4 | 2 | * |
| Ross-on-Wye | 56 | 46 | 38 | 1 | 1 | 1·4 |
| Hartland Point | 57 | 47 | 46 | 0·4 | 1 | 1·2 |
| Bristol | 57 | 44 | 37 | 5 | Tr | 0·5 |
| Portland Bill | 59 | 52 | * | - | - | * |
| Plymouth | 58 | 48 | 41 | Tr | Tr | 1·2 |
| The Lizard | 57 | 48 | * | 1 | - | 3·5 |
| Scilly (St. Mary's) | 58 | 51 | * | 3 | - | 4·9 |
| Guernsey | | | | | | |
| Pembroke | 57 | 49 | * | 4 | Tr | 1·2 |
| Holyhead (Valley) | 56 | 48 | 44 | 6 | 1 | * |
| Chester (Sealand) | 59 | 49 | 40 | Tr | 5 | 0·0 |
| Manchester | 56 | 44 | 37 | 7 | 5 | * |
| Spurn Head | 61 | 47 | * | 1 | 11 | 0·6 |
| Catterick | 59 | 45 | 39 | 2 | 8 | 0·0 |
| Tynemouth | 59 | 43 | 40 | 2 | 2 | * |
| St. Abbs Head | 56 | 44 | * | 0·1 | - | |
| Leuchars | 54 | 39 | 29 | 0·2 | Tr | 0·9 |
| Renfrew (Abbots I.) | 55 | 44 | 38 | 1 | 1 | 3·6 |
| Eskdalemuir | 53 | 41 | 33 | 1 | - | 0·0 |
| Point of Ayre | 54 | 49 | * | 1 | 0·1 | 0·6 |
| Tiree | 54 | 47 | * | 0·1 | 1 | 4·1 |
| Stornoway | 55 | 44 | * | Tr | 2 | 2·8 |
| Dalwhinnie | 49 | 38 | 28 | 5 | 0·2 | 0·6 |
| Aberdeen † | 52 | 38 | 30 | 13 | - | 0·0 |
| Wick | 53 | 40 | 35 | 2 | 1 | * |
| Sumburgh | 51 | 47 | 40 | 7 | 0·6 | 0·0 |
| Blacksod Point | 55 | 47 | * | 0·4 | 1 | * |
| Malin Head | 49 | 48 | | * | 1 | 3·9 |
| Aldergrove | 56 | 43 | 38 | 2 | - | 3·4 |
| Birr Castle | 56 | 41 | 34 | - | 0·3 | 3·7 |
| Valentia Obsy. | 55 | 51 | 47 | 0·6 | 2 | 6·2 |
| Roches Point | 56 | 47 | * | 0·3 | | * |

Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 20-10-42 $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 21-10-42 $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 52 | 02864 | 24228 | 92 | 01863 | 20363 | 27 | 01853 | 22414 | 34 | 81854 | 21384 |
| 115 | 52 | 02844 | 20326 | 37 | 10844 | 24386 | 87 | 81844 | 20486 | 87 | 81844 | 24487 |
| 203 | 23 | 02952 | 24226 | | | | 80 | 02955 | 22415 | 5- | 02848 | 24428 |
| 206 | 62 | 61734 | 00067 | 47 | 05653 | 00066 | 50 | 01863 | 23213 | 54 | 01852 | 23413 |
| 210 | 62 | 62533 | 24268 | 54 | 02843 | 24117 | 03 | 02890 | 20315 | 53 | 01961 | 21313 |
| 220 | 80 | 01944 | 23214 | 80 | 01855 | 24385 | | | | 53 | 01854 | 23215 |
| 230 | 2- | 01964 | 26315 | 22 | 25854 | 22289 | 8- | 25858 | 18285 | 8- | 25854 | 19284 |
| 245 | 52 | 02727 | 23158 | 53 | 02964 | 14127 | 50 | 01961 | 23215 | 54 | 01951 | 23103 |
| 260 | 52 | 02755 | 24227 | 13 | 05664 | 24124 | 07 | 05690 | 26214 | 57 | 01752 | 24204 |
| 278 | 87 | 02855 | 29467 | 87 | 01844 | 26415 | 86 | 81847 | 26487 | 83 | 01842 | 24483 |
| 279 | 81 | 52636 | 28168 | 54 | 02765 | 25765 | 04 | 10890 | 22314 | 84 | 01853 | 22314 |
| 285 | 5- | 21628 | 22458 | -- | 22187 | 02854 | | | | 7- | 05636 | 26426 |
| 288 | 57 | 02863 | 18328 | 52 | 64563 | 59468 | 03 | 05690 | 26368 | 50 | 00861 | 24201 |
| 575 | 8- | 25846 | 28287 | 20 | 01852 | 28282 | 26 | 01843 | 36384 | 23 | 02845 | 20386 |
| 301 | 62 | 51625 | 30358 | 82 | 05553 | 28367 | 36 | 81655 | 29486 | 20 | 01853 | 30484 |
| 321 | 07 | 05690 | 18327 | 57 | 61467 | 15268 | 37 | 05664 | 26366 | 07 | 05690 | 26301 |
| 299 | 5- | 08457 | 20127 | 5- | 05548 | 20328 | 5- | 14746 | 26666 | 14 | 01762 | 26413 |
| 292 | 51 | 05663 | 22128 | 5- | 64448 | 29268 | 03 | 02790 | 27365 | 50 | 01861 | 27101 |
| 310 | -- | 02638 | 24318 | -- | 63428 | 20458 | | | | -- | 03628 | 24528 |
| 614 | 57 | 22463 | 18368 | 5- | 64458 | 00068 | 03 | 05690 | 24363 | 20 | 05664 | 26214 |

| III | 13h. G.M.T. 20-10-42 $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 21-10-42 $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 5- | 64634 | 28268 | 23 | 01753 | 28314 | 26 | 01854 | 26484 | 26 | 02855 | 253-4 |
| 334 | -- | 63647 | 26288 | -- | 25643 | 27274 | | | | -- | 02644 | 26215 |
| 340 | 5- | 05657 | 14228 | 6- | 64638 | 31368 | 86 | 02853 | 24283 | 80 | 01952 | 26283 |
| 136 | 5- | 81638 | 53488 | 52 | 05625 | 20268 | 62 | 64634 | 59668 | 53 | 01731 | 25462 |
| 336 | 51 | 02756 | 20328 | 57 | 22755 | 28468 | | | | 57 | 22754 | 28467 |
| 350 | 52 | 62635 | 18368 | 62 | 64534 | 16368 | 50 | 01744 | 26364 | 54 | 01861 | 25312 |
| 368 | 50 | 21548 | 20168 | 93 | 01634 | 28265 | 04 | 00690 | 24201 | 80 | 01653 | 28315 |
| 379 | 52 | 22636 | 20468 | 52 | 22626 | 20468 | 03 | 01890 | 24213 | 04 | 01990 | 26301 |
| 390 | 57 | 05545 | 20327 | 62 | 67225 | 16268 | 50 | 05554 | 28424 | 50 | 05662 | 24512 |
| 882 | 5- | 66538 | 17368 | 62 | 64625 | 16368 | 07 | 01890 | 25413 | 04 | 01990 | 26213 |
| 438 | 5- | 03748 | 22428 | | | | 00 | 00790 | 26400 | 50 | 01763 | 22303 |
| 430 | 57 | 61754 | 20168 | 5- | 66328 | 14368 | 00 | 00790 | 28360 | | | |
| 409 | 52 | 64727 | 28468 | 84 | 02845 | 29415 | 20 | 01844 | 27414 | 20 | 01854 | 28414 |

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 21-10-42. 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 • | cr₀cm₀ | grRcr₀ | for₀r₀bw |
| Croydon | cm₀ | cr₀for₀rm | cm₀bcm₀ |
| Greenwich | cmc | vcrrR | Rr cqcb |
| Camden Square | o | o | * |
| •Kensington | cor | or | * |
| Hampstead | oft | o | urbc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1 Time 7-18h 20th. Min. <0·1 Time 0-4h 21st.

| 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 | 57 | 46 | 40 | 13 | 1 | 0·0 | * | * |
| Croydon | 61 | 44 | 41 | 16 | 4 | 0·1 | * | * |
| Greenwich | 59 | 49 | 37 | 11 | 9 | 0·1 | 95 | 75 |
| Westminster | 59 | 45 | 40 | 18 | | | 98 | 84 |
| Regents Park | 59 | 45 | 41 | 15 | 0·7 | | 91 | 74 |
| Camden Square | 59 | 45 | 40 | 14 | 2 | * | * | 79 |
| Kensington | 59 | 45 | 37 | 15 | 2 | | 94 | 77 |
| Hampstead | 56 | 43 | 39 | 10 | 4 | | * | 81 |

BRITISH SECTION

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

**SECRET**

Thursday 22nd October 1942

No. 29554

## OBSERVATIONS at 13h. G.M.T. 21st October

| 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) | 21·4 | -8 | W's | 3 | c | 55 | 65 | 42 | 8 | 2 | - | 5 | 9 | 9+ | 2500 |
| | Croydon ... | 22·1 | +8 | W'N | 4 | c-bc | 56 | 65 | 45 | 8 | 2 | - | - | 7-8 | 7-8 | 2600 |
| | S. Farnborough | 22·0 | +6 | W'N | 4 | c | 57 | 55 | 42 | 8 | 8 | 7 | 6 | 7-8 | 9 | 2500 |
| | Boscombe Down | 22·8 | +6 | W'N | 4 | c-bc | 55 | 65 | 45 | 8 | 2 | 7 | - | 4-6 | 7-8 | 2500 |
| | Thorney Island | 22·6 | +8 | W'N | 5 | c-bc | 58 | 65 | 45 | 9 | 1 | 5 | 5 | 4-6 | 7-8 | 3000 |
| | Lympne ... | 20·8 | +10 | W | 4 | c | 55 | 65 | 47 | 8 | 1 | - | 2 | 4-6 | 7-8 | 2500 |
| | Manston ... | 20·0 | +10 | WNW | 4 | 20 | 55 | 65 | 43 | 6 | 1 | - | 6 | 1 | 2-3 | 1100 |
| 2 | Shoeburyness ... | 20·8 | +10 | WNW | 3 | bc | 58 | 65 | 45 | 8 | 1 | - | 1 | 4-6 | 4-6 | 4000 |
| | Felixstowe ... | 19·1 | +14 | W's | 5 | c | 55 | 65 | 44 | 7 | 2 | - | 1 | 7-8 | 9 | 2500 |
| | Gorleston ... | 17·2 | +22 | NW'N | 4 | c-bc | 56 | 65 | 43 | 7 | 8 | - | - | 7-8 | 7-8 | 1200 |
| | Mildenhall ... | 20·1 | +22 | W | 5 | bc | 55 | 75 | 46 | 7 | 2 | - | 2 | 4-6 | 4-6 | 2500 |
| | Cranwell ... | 18·5 | +12 | W | 4 | c | 55 | 65 | 44 | 7 | 8 | 3 | 1 | 4-6 | 9 | 1500 |
| 3 | Birmingham ... | 20·7 | +4 | W | 3 | c | 52 | 75 | 45 | 7 | 5 | 7 | - | 2-3 | 9 | 2500 |
| | Upper Heyford | 21·1 | +12 | W | 4 | c | 53 | 65 | 42 | 9 | 5 | 3 | 2 | 2-3 | 9 | 2500 |
| 4 | Ross-on-Wye | 21·7 | +6 | W's | 3 | c | 53 | 65 | 42 | 8 | 5 | 7 | - | 7-8 | 9+ | 3000 |
| 5 | Hartland Point | 23·9 | +2 | WNW | 3 | c | 55 | 75 | 47 | 8 | 5 | 4 | - | 7-8 | 9+ | 2500 |
| | Bristol ... | 23·3 | +4 | W | 3 | c | 54 | 75 | 49 | 7 | 7 | 7 | 6 | 1 | 9+ | 4000 |
| | Portland Bill ... | 23·4 | +6 | W | 5 | c | 55 | 85 | 51 | 8 | 2 | 4 | - | 4-6 | 10 | 4000 |
| | Plymouth ... | 25·4 | -2 | W | 4 | c | 56 | 75 | 46 | 8 | 8 | 7 | - | 4-6 | 9+ | 3000 |
| | The Lizard ... | 25·7 | +4 | WNW | 4 | c-bc | 53 | 85 | 47 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 |
| | Scilly (St. Mary's) | 26·5 | 0 | W | 4 | c | 57 | 75 | 47 | 8 | 8 | 7 | 9 | 2-3 | 10 | 1200 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 22·8 | -4 | W'N | 6 | cq | 54 | 92 | 52 | 8 | 8 | 2 | - | 7-8 | 10 | 2000 |
| 7 | Holyhead (Valley) | 19·4 | -6 | SSW | 4 | dd | 51 | 92 | 49 | 5 | 5 | 2 | - | 9+ | 10 | 1000 |
| | Chester (Sealand) | 19·6 | +2 | W | 2 | c | 55 | 92 | 53 | 8 | 5 | - | - | 10 | 10 | 2500 |
| 8 | Manchester ... | 19·3 | +6 | WSW | 4 | c | 52 | 75 | 43 | 8 | 2 | - | 3 | 7-8 | 9 | 2500 |
| 10 | Spurn Head ... | 16·8 | +14 | WNW | 6 | bcq | 55 | 65 | 44 | 7 | 1 | 4 | 4 | 2-3 | 4-6 | 1500 |
| | Catterick ... | 16·6 | +2 | WSW | 4 | bc | 55 | 65 | 42 | 8 | 2 | - | 9 | 2-3 | 4-6 | 2500 |
| | Tynemouth ... | 15·7 | +4 | W | 4 | bc | 54 | 75 | 43 | 7 | 2 | 4 | 1 | 4-6 | 4-6 | 2500 |
| 11 | St. Abbs Head | 13·2 | 0 | W | 4 | bc | 52 | 65 | 41 | 7 | 1 | 4 | - | 2-3 | 4-6 | 5000 |
| | Leuchars ... | 12·5 | -6 | WSW | 3 | bc | 53 | 85 | 47 | 8 | 1 | 3 | - | 1 | 4-6 | 3000 |
| 12 | Renfrew (Abbots I.) | 13·3 | -14 | SSW | 2 | c/f | 52 | 85 | 47 | 8 | 8 | 7 | - | 4-6 | 10 | 2000 |
| | Eskdalemuir ... | 14·7 | -4 | SW | 4 | c-bc | 50 | 75 | 41 | 8 | 8 | 7 | - | 4-6 | 7-8 | 2100 |
| | Point of Ayre ... | 16·9 | -8 | W's | 4 | r0r0 | 52 | 85 | 49 | 7 | 8 | 2 | - | 2-3 | 10 | 1800 |
| 13A | Tiree ... | 09·6 | -34 | S'E | 5 | dd | 60 | 92 | 49 | 6 | 6 | 2 | - | 9 | 10 | 800 |
| 13B | Stornoway ... | 08·1 | -12 | SSW | 3 | c | 51 | 85 | 47 | 8 | 5 | 7 | - | 7-8 | 9+ | 2600 |
| 15 | Dalwhinnie ... | 13·0 | -2 | SW | 3 | c | 47 | 75 | 39 | 8 | 5 | 3 | - | 7-8 | 9+ | 2500 |
| | Aberdeen ... | 11·7 | 0 | SW | 1 | bc | 56 | 65 | 43 | 8 | 1 | 5 | - | 1 | 4-6 | 3000 |
| | Wick ... | 10·0 | -2 | SW | 4 | c-bc | 55 | 65 | 43 | 9 | 8 | 3 | - | 4-6 | 7-8 | 2000 |
| 16 | Sumburgh ... | 07·4 | +2 | W | 4 | b-bc | 52 | 75 | 45 | 8 | 2 | 6 | - | 2-3 | 2-3 | 2000 |
| 17 | Blacksod Point | 13·0 | -14 | SW'W | 5 | DD | 56 | 97 | 55 | 6 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head ... | 10·0 | -12 | S | 5 | r+ | 52 | 92 | 50 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Aldergrove ... | 14·4 | -30 | S | 2 | r0r0 | 49 | 92 | 47 | 6 | 6 | 2 | - | 1 | 9+ | 800 |
| 19 | Birr Castle ... | 17·2 | -22 | SSW | 3 | id | 53 | 97 | 52 | 7 | 6 | 2 | - | 7-8 | 10 | 800 |
| 20 | Valentia Obsy. | 20·9 | -14 | SW'W | 6 | r+ | 56 | 92 | 54 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Roches Point | 21·5 | -16 | WSW | 4 | c | 55 | 92 | 53 | 8 | 6 | 1 | - | 4-6 | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 21st October

| District | Stations | Barom. at M.S.L. mt. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | °Temp. (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) | 21·8 | +2 | SW'W | 2 | 20 | 53 | 75 | 45 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Croydon ... | 22·4 | +4 | WSW | 3 | c/+ | 52 | 75 | 44 | 5 | - | 7 | - | 0 | 10 | - | 1 | * |
| | S. Farnborough | 22·3 | +2 | WSW | 3 | c | 52 | 75 | 44 | 8 | 5 | 7 | - | 7-8 | 10 | 2500 | 0 | * |
| | Boscombe Down | 22·5 | -2 | SW'W | 3 | c | 51 | 85 | 46 | 7 | 5 | 7 | - | 4-6 | 9+ | 2500 | 0 | * |
| | Thorney Island | 22·6 | -2 | W | 3 | 20 | 54 | 85 | 48 | 6 | 5 | 7 | - | 7-8 | 10 | 5700 | 1 | * |
| | Lympne ... | 22·1 | +14 | WSW | 1 | c | 50 | 85 | 45 | 7 | - | 3 | - | 0 | 10 | - | 1 | § 3 |
| | Manston ... | 21·4 | +8 | W | 2 | 20 | 51 | 75 | 43 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| 2 | Shoeburyness ... | 21·5 | +6 | W's | 2 | r/tlr | 52 | 75 | 46 | 6 | 3 | 2 | - | 4-6 | 9 | 4000 | 1 | * |
| | Felixstowe ... | 20·3 | +4 | SW'S | 3 | c | 53 | 75 | 44 | 7 | 5 | 3 | 6 | 1 | 9 | 4000 | 0 | 3 |
| | Gorleston ... | 19·2 | +6 | W'N | 2 | c-bc | 50 | 85 | 43 | 7 | 5 | 4 | - | 4-6 | 7-8 | 3000 | 1 | 3 |
| | Mildenhall ... | 19·6 | +4 | WSW | 4 | ir0 | 52 | 75 | 45 | 7 | 5 | 7 | - | 4-6 | 10 | 5000 | 1 | * |
| | Cranwell ... | 17·7 | -5 | SW | 4 | ir0 | 51 | 75 | 43 | 6 | - | 7 | - | 0 | 10 | - | 1 | * |
| 3 | Birmingham ... | 19·0 | -12 | SW | 4 | ir0 | 51 | 85 | 47 | 7 | 6 | 7 | - | 7-8 | 10 | 1500 | 1 | * |
| | Upper Heyford | 20·3 | -8 | SW | 3 | c | 51 | 75 | 44 | 7 | - | 7 | - | 0 | 9+ | - | 0 | * |
| 4 | Ross-on-Wye | 20·0 | -10 | WSW | 3 | c | 53 | 85 | 48 | 8 | 5 | 1 | - | 9+ | 10 | 2500 | 1 | * |
| 5 | Hartland Point | 21·6 | -14 | WSW | 5 | c/+ | 55 | 85 | 51 | 7 | 5 | 2 | - | 7-8 | 10 | 2000 | 1 | 3 |
| | Bristol ... | 22·4 | -6 | SW'S | 3 | d0d0 | 51 | 97 | 50 | 6 | 5 | 7 | - | 9 | 10 | 800 | 1 | * |
| | Portland Bill ... | 23·2 | -6 | W | 5 | c | 55 | 85 | 51 | 8 | 5 | - | - | 6 | 10 | 4000 | 1 | 5 |
| | Plymouth ... | 25·1 | -2 | W'S | 5 | c | 55 | 85 | 49 | 7 | 5 | 7 | - | 4-6 | 9+ | 2500 | 0 | 3 |
| | The Lizard ... | 24·9 | -4 | W | 6 | c | 55 | 85 | 49 | 8 | 8 | 6 | - | 7-8 | 9+ | 1500 | 0 | 5 |
| | Scilly (St. Mary's) | 25·0 | -10 | SW'W | 5 | c | 56 | 85 | 50 | 8 | 5 | 7 | - | 2-3 | 10 | 2000 | 1 | 4 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 20·0 | -6 | W | 8 | cq | 56 | 97 | 55 | 7 | 8 | 2 | - | 7-8 | 10 | 2000 | 1 | 5 |
| 7 | Holyhead (Valley) | 15·5 | -18 | SW'W | 5 | d0d0 | 55 | 92 | 53 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | 4 |
| | Chester (Sealand) | 16·1 | -14 | SW'W | 2 | ir0 | 52 | 97 | 52 | 7 | 5 | 2 | - | 4-6 | 10 | 2500 | 1 | * |
| 8 | Manchester ... | 16·6 | -16 | SSE | 4 | d0d0 | 50 | 97 | 49 | 4 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | * |
| 10 | Spurn Head ... | 17·3 | -4 | WSW | 5 | 20 | 52 | 75 | 42 | 6 | 5 | 3 | - | 4-6 | 7-8 | 2500 | 0 | 3 |
| | Catterick ... | 15·1 | -14 | SSW | 2 | 20 | 51 | 85 | 47 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| | Tynemouth ... | 14·9 | -6 | SW | 3 | c/pr | 51 | 75 | 45 | 6 | 8 | - | - | 9 | 9 | 2500 | 1 | 2 |
| 11 | St. Abbs Head | 10·4 | -18 | SW | 4 | c/+ | 48 | 85 | 45 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| | Leuchars ... | 10·0 | -18 | SW | 1 | ir | 49 | 92 | 47 | 6 | 6 | 7 | - | 10 | 10 | 5000 | 1 | * |
| 12 | Renfrew (Abbots I.) | 09·6 | -22 | SSW | 2 | id0 | 52 | 97 | 51 | 5 | 5 | 2 | - | 10 | 10 | 1400 | 1 | * |
| | Eskdalemuir ... | 11·5 | -20 | SSW | 4 | r0r0 | 49 | 92 | 48 | 6 | 6 | 2 | - | 7-8 | 10 | 200 | 1 | * |
| | Point of Ayre ... | 11·9 | -24 | W'S | 5 | c/+ | 54 | 97 | 54 | 8 | 6 | 7 | - | 7-8 | 10 | 800 | 1 | 4 |
| 13A | Tiree ... | 08·8 | -6 | WSW | 4 | 20 | 54 | 97 | 53 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | |
| 13B | Stornoway ... | 02·7 | -30 | SSE | 6 | r0r0 | 50 | 97 | 50 | 7 | 5 | 2 | - | 9 | 10 | 1000 | 1 | 3 |
| 15 | Dalwhinnie ... | 08·3 | -20 | SW | 3 | 0 | 45 | 92 | 43 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Aberdeen ... | 09·4 | -10 | S'W | 2 | 20 | 50 | 85 | 44 | 5 | - | 7 | - | 0 | 10 | - | 1 | 1 |
| | Wick ... | 08·4 | -10 | S'E | 2 | ir0 | 50 | 85 | 45 | 9 | 5 | - | - | 9 | 9 | 2000 | 1 | * |
| 16 | Sumburgh ... | 07·4 | +2 | WSW | 3 | bc | 50 | 85 | 44 | 8 | 5 | 5 | - | 4-6 | 9 | 1800 | 1 | 3 |
| 17 | Blacksod Point | 12·8 | +2 | SW'W | 3 | c/+ | 56 | 97 | 55 | 7 | - | 2 | - | 10 | 10 | 800 | 2 | 3 |
| 18 | Malin Head ... | 08·5 | -6 | WSW | 4 | DD | 55 | 97 | 54 | 5 | - | 2 | - | 10 | 10 | 450 | 2 | 4 |
| | Aldergrove ... | 11·3 | -12 | SW'S | 2 | d0d0 | 55 | 97 | 54 | 5 | 6 | 2 | - | 9+ | 10 | 300 | 1 | * |
| 19 | Birr Castle ... | 15·2 | -4 | SSW | 3 | ++ | 56 | 97 | 53 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| 20 | Valentia Obsy. | 19·7 | -2 | SW'W | 5 | c | 57 | 92 | 55 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 5 |
| | Roches Point | 18·6 | -10 | W'S | 6 | r0r0 | 45 | 97 | 44 | 8 | 6 | 2 | - | 4-6 | 9+ | 1500 | 1 | 5 |

## PAST 24 HOURS.

| District | Stations | Weather. 7h.—13h. 21st (39) | Weather. 13h.—18h. 21st (40) | Weather. 18h. 21st to 1h. 22nd (41) | Weather. 1h.–7h. 22nd (42) |
|---|---|---|---|---|---|
| 1 | London (Kew) | bbcwc | ccz0 | cr0rr0 | cr0c |
| | Croydon ... | bm0bc | cm0ir0 | cr0r0m0cr0m0cr0r0cm0 | |
| | S. Farnborough | bbccy | cy ir0c | crrrm0 | rr0m0c |
| | Boscombe Down | bcc | c | cir0cr0r0 | cbr0c |
| | Thorney Island | bbc | bccm0 | cr0r0rr | crrr0 |
| | Lympne ... | bbc | bcc | cr0r0rrm0 | cr0r0m0 |
| | Manston ... | bm0bcz0 | bccz0 | cm0r0r0ir0m0rrRRrr | |
| 2 | Shoeburyness ... | bbc | bccwm0 | bcwm0c | cr0r0cid0m0 |
| | Felixstowe ... | bbcc | cbcb,c | ccir0r0r0m0cr0r0cr0r0m0 | |
| | Gorleston ... | bcc | bc | c | cr0r0c |
| | Mildenhall ... | bbc | bcccir0 | cir0rrmcibcir0m0r0fcmc | |
| | Cranwell ... | bcm0c | cir0m0 | cmcr0r0m0cr0r0m0cm0c | |
| 3 | Birmingham ... | bcbcc | cir0 | coir0 | orr0 |
| | Upper Heyford | bbc | ccir0 | cir0cm0 | ir0m0cm0 |
| 4 | Ross-on-Wye | bcbbccc | c | crc | |
| 5 | Hartland Point | c | ccirc | irrrc | iridc |
| | Bristol ... | bcb,c | cir0cd0d0 | crr | cr0r0rr |
| | Portland Bill ... | c | c | orr | c |
| | Plymouth ... | cm0pr0c | c | circ | cidc |
| | The Lizard ... | bc | c | c | cidc |
| | Scilly (St. Mary's) | c | c | c | iridc |
| | Guernsey ... | | | | |
| 6 | Pembroke ... | cq | cqcq | cirq | cir0m0 |
| 7 | Holyhead (Valley) | beeir0 | crrdd | r0r0c | c |
| | Chester (Sealand) | bcpr0 | cir0 | cm0ir0 | cm0rrir0 |
| 8 | Manchester ... | cpr0pr | ir0d0d0 | cd0d0m | d0d0vm0 |
| 10 | Spurn Head ... | bcq | cm0 | cm0 | cv0m0 |
| | Catterick ... | bbc | beeir0 | cir0m0 | cm0c |
| | Tynemouth ... | bc | bcqp0 | c | prc |
| 11 | St. Abbs Head | bbc | bccr | cbcc | cpr0r0 |
| | Leuchars ... | bc | bccm0ir | cw0m0cm0 | cir0m0cm0 |
| 12 | Renfrew (Abbots I.) | bceidd0 | ccm0r0r0id0 | cm0id0 | cm0r0r0id0 |
| | Eskdalemuir ... | bcpr0 | bqpr0cr0 | or0Fd | oFdor0 |
| | Point of Ayre ... | bbcr0r0 | r0r0c | Fcrr | Fc |
| 13A | Tiree ... | ccpr0r0r0 | cddDD0 | id0dddr | d0d0cd0 |
| 13B | Stornoway ... | bcc | cprrr | crrdd | cw0 |
| 15 | Dalwhinnie ... | bbc | cpr0 | * | ocir0 |
| | Aberdeen ... | bbc | bccm0 | cr0r0m0 | cm0iR |
| | Wick ... | bc | ccir0 | cbcc | cr0r0 |
| 16 | Sumburgh ... | bc | bcpr0c | cbcc | cd0d0c |
| 17 | Blacksod Point | d | r | d | d |
| 18 | Malin Head ... | r | r | r | r |
| | Aldergrove ... | cr0r0m0 | d0d0cd0d0 | cr0r0m0c | cd0d0c |
| 19 | Birr Castle ... | d | r | * | r |
| 20 | Valentia Obsy. | r | r | r | r |
| | Roches Point | r | r | r | r |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 22nd October

| Districts | Forecast |
|---|---|
| 1 S.E. England<br>2 E. England ...<br>3 E. Midlands ...<br>4 W. Midlands<br>5 S.W. England ↓<br>6 South Wales ↓ | Moderate or fresh West to Southwest wind, strong to gale locally on Southwest coast; cloudy occasional slight rain or drizzle; rather cold during day rather warm at night |
| 7 North Wales ↓<br>8 N.W. England ↓<br>9 N. Midlands ...<br>10 N.E. England<br>11 S.E. Scotland<br>12 S.W. Scotland & Isle of Man ↓<br>13A W. Scotland ... ↓<br>13B N.W. Scotland ↓<br>14 Mid Scotland<br>15 N.E. Scotland ↓ | Fresh West to Southwest wind strong or gale at exposed places; mainly cloudy, rain at times today, squally showers later rather cold |
| 16 Orkneys and Shetlands ↓ | As 7-15 |
| 17 N. W. Ireland ↓<br>18 N. E. Ireland ↓ | |
| 19 S. E. Ireland ↓<br>20 S. W. Ireland ↓ | Fresh West to Southwest wind, strong or gale at exposed places; mainly cloudy, rain at times; rather cold. |

### GENERAL INFERENCE

Pressure is high from the Azores to Biscay. A complex depression off Northwest Scotland is moving East-northeast and an associated trough of low pressure will move Southeast over the British Isles. Weather will be mainly cloudy with rain at times in most districts but in the South the rainfall will be slight. Colder and showery conditions will spread Southeast over the Northwest half of the country during the night

### FURTHER OUTLOOK

Continuing unsettled with rain at times in most districts.

Gale warning in operation in districts 5 (part of) 6, 7, 8, 12, 13A and B, 17, 18, 19, 20.

Time of issue: 0600 G.M.T. 22/10/42

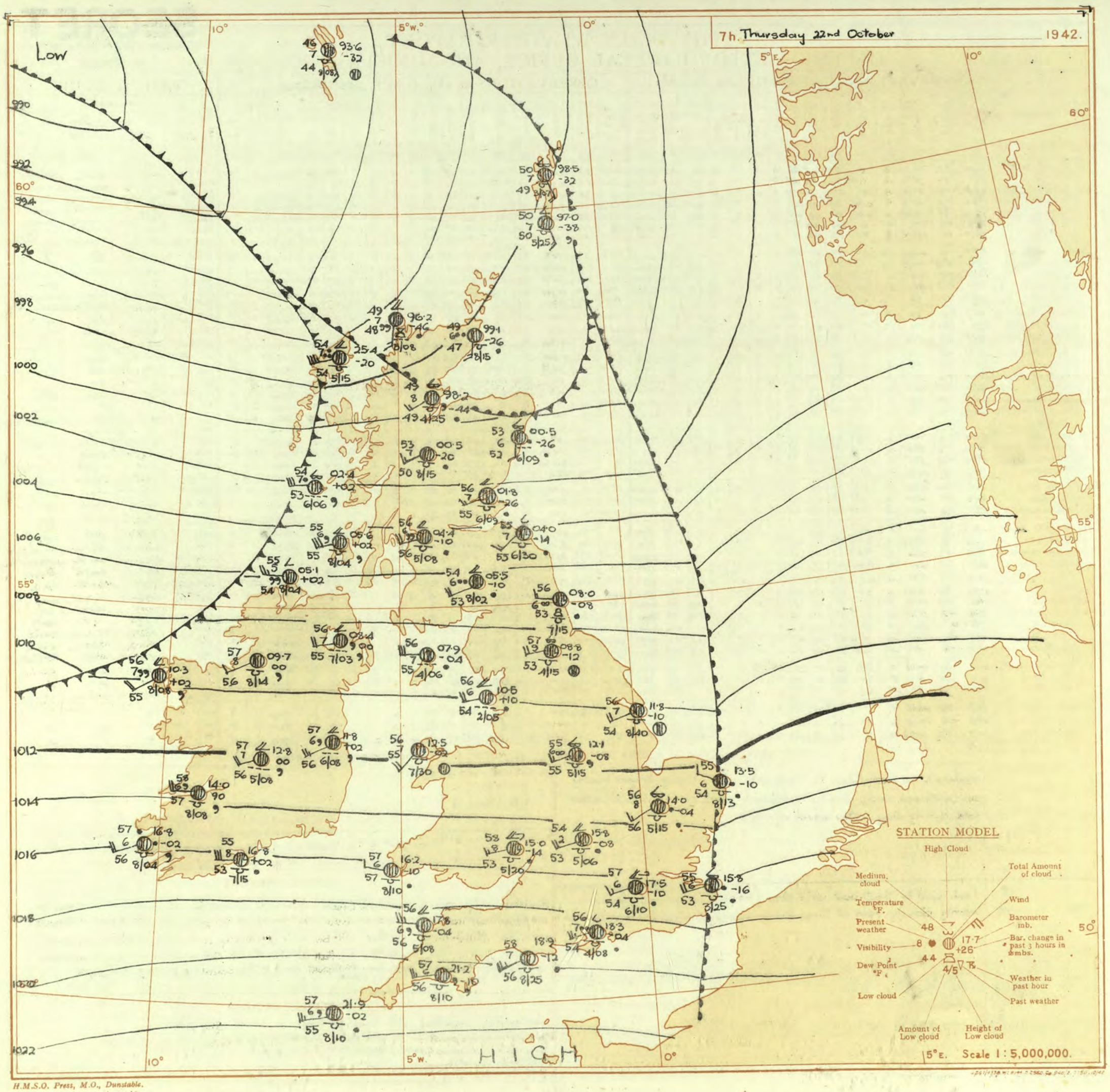
In districts 15 and 16

Time of issue: 0845 G.M.T. 22/10/42

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

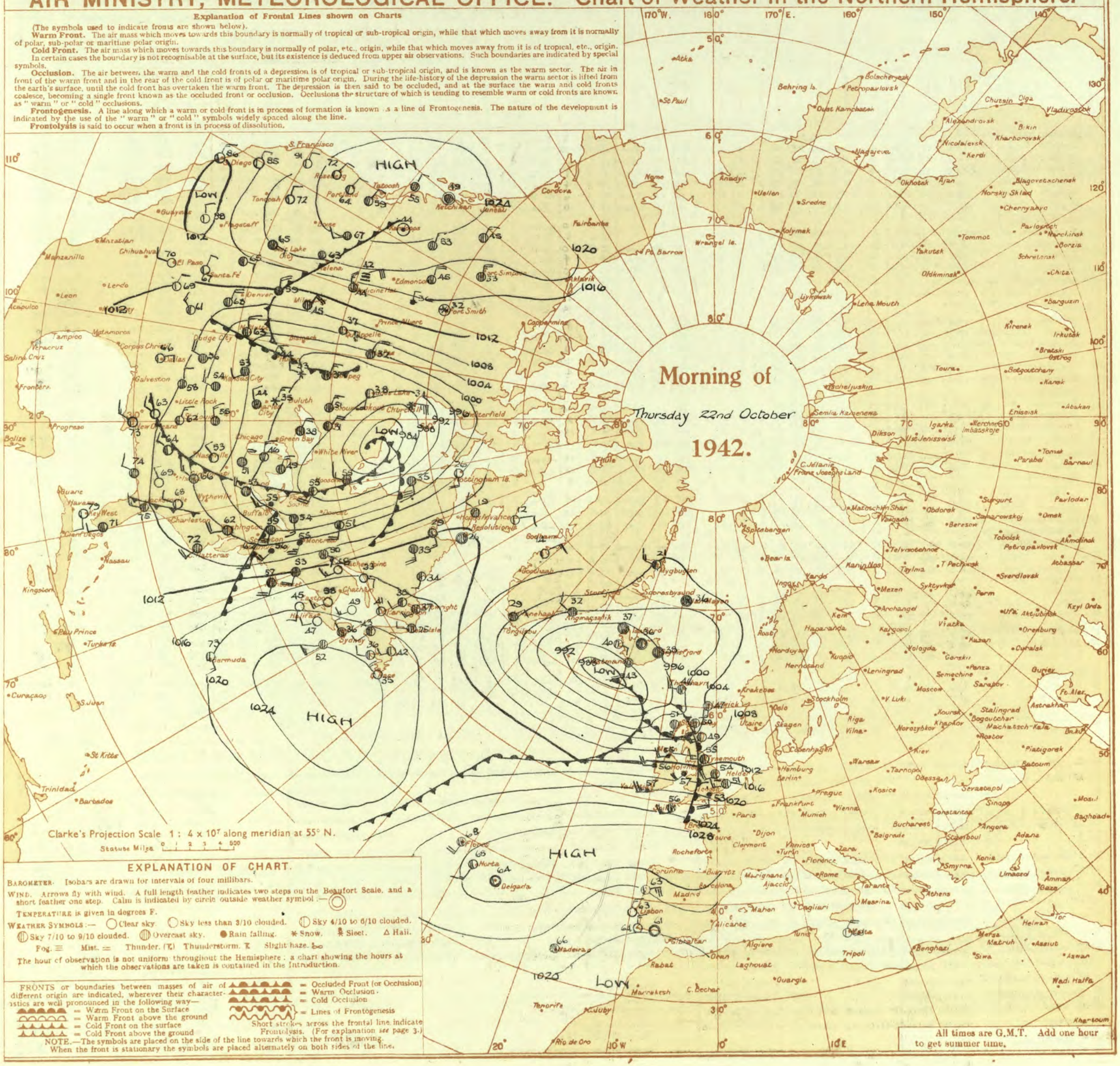
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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



BRITISH SECTION

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

Thursday 22nd October 1942

No. 29554

## OBSERVATIONS at 1 hr. G.M.T. 22nd October

| 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 | * | * | * | * | * | 53 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 19·6 | -18 | S'W | 4 | ir₀ | 53 | 97 | 52 | 6 | 6 | 2 | - | 4-6 | 10 | 800 |
| | S. Farnborough | 226 | 18·7 | -22 | SW'W | 4 | rr | 53 | 92 | 51 | 6 | 5 | - | - | 10 | 10 | 1400 |
| | Boscombe Down | 417 | 19·6 | -18 | SW | 4 | r₀r₀ | 53 | 97 | 53 | 7 | 5 | 7 | - | 7-8 | 10 | 1300 |
| | Thorney Island | 10 | 20·0 | -18 | SW'W | 5 | rr | 55 | 92 | 53 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Lympne ... | 283 | 19·6 | -22 | WSW | 3 | ir₀ | 52 | 92 | 50 | 7 | 5 | 2 | - | 9+ | 10 | 1500 |
| | Manston ... | 154 | 18·5 | -20 | WSW | 4 | r₀r₀ | 51 | 92 | 49 | 6 | 5 | - | - | 10 | 10 | 2000 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 17·5 | -20 | SW | 4 | c | 53 | 92 | 50 | 7 | - | 7 | - | 0 | 10 | - |
| | Gorleston ... | 5 | 16·5 | -18 | WSW | 3 | c | 51 | 85 | 48 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Mildenhall ... | 15 | 15·8 | -18 | SW | 4 | ir₀ | 53 | 92 | 50 | 6 | 5 | 2 | - | 9 | 10 | 1200 |
| | Cranwell ... | 203 | 13·8 | -16 | WSW | 5 | r₀r₀ | 54 | 85 | 50 | 6 | 5 | 2 | - | 2-3 | 10 | 1800 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 17·4 | -16 | W'S | 4 | ir₀ | 55 | 92 | 53 | 6 | 5 | - | - | 10 | 10 | 800 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 19·5 | -10 | W | 5 | c | 56 | 97 | 55 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Bristol ... | 209 | 19·5 | -14 | SW | 5 | r₀r₀ | 56 | 97 | 55 | 7 | 5 | - | - | 9+ | 9+ | 800 |
| | Portland Bill ... | 32 | 20·2 | -16 | W | 5 | rr | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 82 | 23·1 | -12 | WSW | 5 | c | 57 | 92 | 55 | 7 | 5 | 2 | - | 9 | 10 | 1400 |
| | The Lizard ... | 240 | 22·9 | -10 | W | 6 | c | 56 | 85 | 54 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| | Scilly (St. Mary's) | 163 | 23·6 | -10 | SW'W | 5 | c | 56 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 1200 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 18·2 | -8 | W | 7 | cg | 57 | 97 | 56 | 7 | 8 | - | - | 10 | 10 | 1500 |
| 7 | Holyhead (Valley) | 32 | 14·4 | -6 | SW | 4 | ir₀ | 57 | 97 | 55 | 6 | 5 | - | - | 10 | 10 | 1600 |
| | Chester (Sealand) | 16 | 13·6 | -10 | WNW | 1 | c/r | 57 | 97 | 57 | 6 | 5 | 2 | - | 7-8 | 9 | 2500 |
| 8 | Manchester ... | 235 | 13·6 | -10 | S'W | 3 | d.d. | 54 | 97 | 54 | 4 | - | 2 | - | 10 | 10 | 800 |
| 10 | Spurn Head ... | 29 | 13·5 | -20 | SW'W | 4 | z₀ | 54 | 85 | 50 | 6 | 5 | 2 | - | 7-8 | 10 | 1500 |
| | Catterick ... | 175 | 11·0 | -10 | WSW | 3 | ir₀ | 51 | 85 | 49 | 6 | 5 | 7 | - | 4-6 | 10 | 1300 |
| | Tynemouth ... | 108 | 10·3 | -14 | W | 3 | z₀ | 55 | 85 | 51 | 6 | 8 | - | - | 9+ | 9+ | 2500 |
| 11 | St. Abbs Head | 280 | 07·7 | -8 | SW | 4 | c-bc | 53 | 92 | 51 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 |
| | Leuchars ... | 36 | 06·4 | -16 | SW | 3 | z₀ | 54 | 97 | 54 | 6 | 5 | - | - | 10 | 10 | 900 |
| 12 | Renfrew (Abbotsl.) | 19 | 07·1 | -16 | SW'S | 2 | id₀ | 55 | 92 | 57 | 6 | 5 | 2 | - | 7-8 | 10 | 700 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 10·7 | -4 | W | 5 | rr | 56 | 97 | 56 | 7 | 6 | 2 | - | 10 | 10 | 2500 |
| 13A | Tiree ... ... | 22 | 04·5 | -26 | S'W | 3 | dr | 54 | 97 | 53 | 5 | 5 | - | - | 10 | 10 | 220 |
| 13B | Stornoway ... | 80 | 01·2 | -16 | SSW | 3 | c/d | 51 | 92 | 49 | 7 | 5 | 7 | - | 7-8 | 9+ | 2000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 05·3 | -22 | SW'W | 3 | z₀ | 49 | 97 | 48 | 6 | 5 | - | 7 | 4-6 | 9+ | 3000 |
| | Wick ... | 114 | 04·3 | -18 | S'E | 4 | c | 50 | 92 | 48 | 8 | 5 | 7 | - | 4-6 | 9+ | 2000 |
| 16 | Sumburgh ... | 19 | 04·5 | -18 | SE | 4 | c | 50 | 92 | 56 | 8 | 5 | 7 | - | 2-3 | 10 | 3000 |
| 17 | Blacksod Point | 18 | 10·1 | -10 | W'S | 4 | d.d₀ | 56 | 92 | 54 | 7 | - | 2 | - | 10 | 10 | 800 |
| 18 | Malin Head ... | 84 | 06·2 | -18 | WSW | 4 | r₀r₀ | 55 | 97 | 54 | 6 | - | 2 | - | 10 | 10 | 450 |
| | Aldergrove ... | 268 | 10·0 | -12 | SW | 3 | c/r | 55 | 97 | 54 | 6 | 5 | 2 | - | 9 | 10 | 1900 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 18·0 | -10 | WSW | 5 | ir₀ | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | 18·3 | -6 | W | 4 | c/r | 56 | 92 | 54 | 8 | 6 | 1 | - | 4-6 | 9+ | 7500 |

## OBSERVATIONS at 7 hr. G.M.T. 22nd October

| 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) | 16·2 | -8 | SW'W | 3 | c | 56 | 92 | 53 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Croydon ... | 17·5 | -10 | SW'W | 3 | c | 57 | 92 | 54 | 6 | 5 | 2 | - | 9 | 10 | 1000 | 1 | * |
| | S. Farnborough | 17·1 | -6 | W'S | 4 | c | 56 | 85 | 53 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 18·5 | -8 | W'S | 4 | c/r | 54 | 92 | 52 | 8 | 5 | 7 | - | 2-3 | 9+ | 1500 | 1 | * |
| | Thorney Island | 18·3 | -4 | SW | 5 | r₀r₀ | 56 | 92 | 54 | 7 | 5 | 4 | - | 4-6 | 10 | 800 | 1 | * |
| | Lympne ... | 17·1 | -6 | W'S | 3 | c/r | 54 | 92 | 54 | 8 | 5 | 7 | - | 2-3 | 10 | 700 | 1 | § 4 |
| | Manston ... | 15·8 | -16 | SW | 4 | c/r | 55 | 92 | 53 | 6 | 5 | 7 | - | 2-3 | 10 | 3500 | 1 | * |
| 2 | Shoeburyness ... | 16·0 | -10 | WNW | 2 | c | 56 | 92 | 54 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Felixstowe ... | 15·6 | -6 | SW | 3 | r₀r₀ | 55 | 92 | 54 | 6 | - | 2 | - | 10 | 10 | 1500 | 1 | 3 |
| | Gorleston ... | 15·5 | -10 | W'N | 2 | c/r | 55 | 97 | 54 | 6 | 5 | - | - | 10 | 10 | 1300 | 1 | 3 |
| | Mildenhall ... | 14·0 | -4 | SW'W | 3 | c/r | 56 | 97 | 56 | 8 | 5 | 7 | - | 7-8 | 10 | 1500 | 1 | * |
| | Cranwell ... | 12·0 | -10 | WSW | 4 | c | 55 | 92 | 54 | 7 | 5 | 7 | - | 4-6 | 9+ | 800 | 1 | * |
| 3 | Birmingham ... | 13·6 | -6 | SW | 4 | ir₀ | 55 | 92 | 53 | 8 | 6 | 2 | - | 9 | 10 | 1500 | 1 | * |
| | Upper Heyford | 15·8 | -8 | WSW | 4 | id | 54 | 97 | 53 | 6 | 5 | 2 | - | 7-8 | 10 | 600 | 1 | * |
| 4 | Ross-on-Wye | 15·0 | -14 | WSW | 3 | c | 58 | 85 | 53 | 8 | 5 | 2 | 1 | 7-8 | 9+ | 2000 | 1 | * |
| 5 | Hartland Point | 17·8 | -4 | W | 5 | id₀ | 56 | 97 | 56 | 6 | 5 | 2 | - | 7-8 | 10 | 800 | 1 | 4 |
| | Bristol ... | 18·2 | -10 | SW | 5 | rr | 57 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Portland Bill ... | 18·9 | -12 | WSW | 5 | c | 58 | 92 | 56 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 |
| | Plymouth ... | 21·2 | -10 | W'S | 5 | c/d | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| | The Lizard ... | 21·5 | -4 | W | 6 | o | 56 | 92 | 54 | 8 | 5 | - | - | 10 | 10 | 1000 | 1 | 5 |
| | Scilly (St. Mary's) | 21·9 | -2 | WSW | 5 | id₀ | 57 | 92 | 55 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 16·2 | -10 | W'N | 1 | cg | 57 | 97 | 57 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 5 |
| 7 | Holyhead (Valley) | 12·5 | -2 | SSW | 4 | c | 56 | 97 | 55 | 7 | 5 | - | - | 9+ | 9+ | 3000 | 1 | 4 |
| | Chester (Sealand) | 11·2 | -14 | W | 2 | id₀ | 59 | 97 | 58 | 6 | 5 | 2 | - | 7-8 | 9+ | 3500 | 1 | * |
| 8 | Manchester ... | 11·6 | -10 | S'W | 3 | d.d₀ | 55 | 97 | 54 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 10 | Spurn Head ... | 11·8 | -10 | SW'W | 4 | o | 56 | 92 | 54 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 3 |
| | Catterick ... | 08·8 | -12 | WSW | 4 | c | 57 | 85 | 53 | 9 | 5 | 7 | - | 4-6 | 9+ | 1500 | 1 | * |
| | Tynemouth ... | 08·0 | -8 | W | 3 | z₀ | 56 | 92 | 53 | 6 | 8 | - | - | 9+ | 9+ | 1500 | 1 | 3 |
| 11 | St. Abbs Head | 04·0 | -14 | SSW | 3 | c | 55 | 97 | 55 | 7 | 5 | 4 | - | 9 | 9+ | 3000 | 1 | 3 |
| | Leuchars ... | 01·8 | -26 | SW | 3 | c | 56 | 97 | 55 | 7 | 5 | 2 | - | 9 | 10 | 900 | 1 | * |
| 12 | Renfrew (Abbotsl.) | 04·4 | -10 | WSW | 4 | d.d₀ | 56 | 97 | 56 | 6 | 5 | 2 | - | 7-8 | 10 | 800 | 1 | * |
| | Eskdalemuir ... | 05·5 | -10 | SW'W | 4 | r₀r₀ | 54 | 97 | 53 | 6 | - | 2 | - | 10 | 10 | 200 | 1 | * |
| | Point of Ayre... | 07·9 | -4 | W | 6 | c | 56 | 97 | 55 | 7 | 6 | 7 | - | 4-6 | 10 | 600 | 1 | 5 |
| 13A | Tiree ... ... | 02·4 | +2 | W'S | 6 | ir₀ | 54 | 97 | 53 | 7 | 6 | 7 | - | 9 | 9+ | 600 | 1 | |
| 13B | Stornoway ... | 95·4 | -20 | WSW | 7 | rr | 54 | 97 | 54 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| 15 | Dalwhinnie ... | 00·5 | -20 | SW | 3 | o | 53 | 92 | 50 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Aberdeen † ... | 00·5 | -26 | S | 2 | c/r | 53 | 97 | 52 | 6 | 6 | 7 | - | 9 | 10 | 900 | 1 | 1 |
| | Wick ... | 99·1 | -26 | S | 3 | r₀r₀ | 49 | 92 | 47 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 16 | Sumburgh ... | 97·0 | -38 | SSE | 3 | c | 50 | 97 | 50 | 7 | 5 | 1 | - | 7-8 | 10 | 2500 | 1 | 3 |
| 17 | Blacksod Point | 10·3 | +2 | SW'W | 4 | d.d₀ | 56 | 97 | 55 | 7 | - | 2 | - | 10 | 10 | 800 | 2 | 3 |
| 18 | Malin Head ... | 05·1 | +2 | W | 5 | d.d₀ | 55 | 97 | 54 | 5 | - | 1 | - | 10 | 10 | 450 | 2 | 3 |
| | Aldergrove ... | 08·4 | 0 | WSW | 4 | c/d | 56 | 97 | 55 | 7 | 6 | 2 | - | 9+ | 10 | 300 | 1 | * |
| 19 | Birr Castle ... | 12·8 | 0 | SW | 4 | c | 57 | 97 | 56 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 2 | * |
| 20 | Valentia Obsy. | 16·8 | -2 | SW'W | 4 | c/r | 57 | 97 | 56 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | 5 |
| | Roches Point | 16·8 | +2 | W | 6 | c | 55 | 92 | 53 | 8 | 5 | - | - | 9+ | 10 | 1500 | 1 | 5 |

## 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 2/5/- Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 56 | 51 | 48 | — | 2 | 6·2 |
| Croydon | 56 | 50 | 47 | Tr | 3 | 6·3 |
| S. Farnborough | 57 | 50 | 48 | Tr | 3 | 6·0 |
| Boscombe Down | 56 | 49 | 47 | - | 2 | 5·2 |
| Thorney Island | 53 | 53 | 50 | - | 3 | 0·0 |
| Lympne | 56 | 49 | 46 | - | 5 | 8·1 |
| Manston | 56 | 49 | 47 | - | 4 | * |
| Shoeburyness | 59 | 51 | 47 | - | 3 | 7·0 |
| Felixstowe | 57 | 50 | 48 | - | 2 | 7·2 |
| Gorleston | 56 | 50 | 45 | - | 2 | * |
| Mildenhall | 57 | 49 | 42 | - | 7 | 7·6 |
| Cranwell | 55 | 50 | 48 | Tr | 4 | 6·3 |
| Birmingham | 54 | 47 | 45 | 0·1 | 4 | 4·1 |
| Upper Heyford | 55 | 50 | 48 | Tr | 0·2 | * |
| Ross-on-Wye | 56 | 53 | 52 | — | 1 | 3·3 |
| Hartland Point | 55 | 55 | 52 | 0·3 | 4 | 0·7 |
| Bristol | 55 | 51 | * | 1 | 1 | 4·3 |
| Portland Bill | 57 | 52 | * | - | 2 | * |
| Plymouth | 57 | 54 | 54 | 0·1 | Tr | 0·4 |
| The Lizard | 56 | 54 | * | Tr | Tr | 0·1 |
| Scilly (St. Mary's) | 58 | 55 | * | Tr | Tr | 0·5 |
| Guernsey | | | | | | |
| Pembroke | 56 | 54 | * | Tr | 8 | 0·0 |
| Holyhead (Valley) | 55 | 54 | 53 | 6 | 7 | * |
| Chester (Sealand) | 55 | (57) | 54 | 1 | 3 | 2·3 |
| Manchester | 52 | 50 | 49 | — | 13 | * |
| Spurn Head | 55 | 50 | * | — | 3 | 7·0 |
| Catterick | 57 | 49 | 48 | Tr | 0·3 | 6·0 |
| Tynemouth | 54 | 51 | 49 | Tr | 3 | * |
| St. Abbs Head | 53 | 47 | * | 1 | 0·4 | * |
| Leuchars | 55 | 49 | 47 | 0·3 | 0·1 | 4·5 |
| Renfrew (Abbotsl.) | 53 | 52 | 51 | 0·2 | 1 | 1·9 |
| Eskdalemuir | 51 | 48 | 48 | 1 | 4 | 1·8 |
| Point of Ayre | 54 | 53 | * | 3 | 5 | 1·7 |
| Tiree | 54 | 51 | * | 1 | 2 | 0·0 |
| Stornoway | 51 | 50 | * | 2 | 6 | 0·8 |
| Dalwhinnie | 49 | 45 | 40 | 0·5 | 0·5 | 1·2 |
| Aberdeen † | 57 | 47 | 45 | — | 2 | 6·6 |
| Wick | 55 | 47 | 43 | - | 5 | * |
| Sumburgh | 53 | 50 | 43 | 1 | 0·3 | 5·9 |
| Blacksod Point | 60 | 54 | * | 16 | 6 | * |
| Malin Head | 55 | 54 | | 1 | 5 | 0·0 |
| Aldergrove | 55 | 53 | 53 | 3 | 4 | 0·0 |
| Birr Castle | 56 | 56 | 54 | 5 | 10 | 0·0 |
| Valentia Obsy. | 57 | 56 | 54 | 4 | 0·1 | 0·0 |
| Roches Point | 56 | 52 | * | 2 | 0·6 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 21st October 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 109 | 36 | 25854 | 22684 | 57 | 02754 | 14187 |
| 115 | 87 | 22844 | 24487 | | | |
| 203 | | | | 5- | 61838 | 20428 |
| 206 | 57 | 02854 | 22425 | 62 | 58746 | 00068 |
| 210 | 13 | 02951 | 21415 | 42 | 64754 | 14168 |
| 220 | | | | 5- | 22618 | 23168 |
| 230 | 32 | 61856 | 18228 | 5- | 52528 | 16358 |
| 245 | 73 | 02852 | 22315 | 32 | 22615 | 20268 |
| 260 | 13 | 02753 | 23316 | 57 | 02755 | 20388 |
| 278 | 02 | 54533 | 16348 | 62 | 02737 | 20268 |
| 279 | 53 | 02854 | 22427 | 5- | 61628 | 51468 |
| 285 | 23 | 02745 | 26516 | | | |
| 288 | 27 | 01852 | 56414 | 57 | 22867 | 16368 |
| 575 | 62 | 62624 | 18368 | 62 | 62737 | 20258 |
| 301 | 87 | 02846 | 22486 | 02 | 64418 | 20468 |
| 321 | 20 | 02753 | 20525 | 07 | 61651 | 18228 |
| 299 | 15 | 01763 | 24314 | 52 | 02754 | 22226 |
| 292 | 12 | 01953 | 24313 | 07 | 05630 | 20268 |
| 310 | -- | 02625 | 24415 | | | |
| 614 | 27 | 02754 | 26415 | 52 | 05664 | 18328 |

01h. G.M.T. 22nd October 07h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 109 | 37 | 02743 | 15268 | 62 | 64723 | 14368 |
| 115 | 52 | 22735 | 20468 | 92 | 52735 | 16368 |
| 203 | 5- | 03848 | 20488 | 6- | 62838 | 20568 |
| 206 | 26 | 02863 | 22865 | 57 | 21854 | 21368 |
| 210 | 51 | 02854 | 19228 | 52 | 02865 | 12188 |
| 220 | | | | 80 | 25647 | 24587 |
| 230 | 5- | 52528 | 00068 | 52 | 51747 | 50468 |
| 245 | 5- | 05638 | 24128 | 52 | 05624 | 20428 |
| 260 | 57 | 05645 | 05645 | 57 | 61655 | 51426 |
| 278 | 5- | 52538 | 20368 | 57 | 02836 | 22567 |
| 279 | 52 | 62645 | 53568 | 5- | 22628 | 53668 |
| 285 | | | | | | |
| 288 | 57 | 05654 | 17328 | 57 | 02856 | 18468 |
| 575 | 62 | 52637 | 20268 | 5- | 02848 | 20258 |
| 301 | | | | 62 | 61624 | 23468 |
| 321 | | | | 52 | 05647 | 21268 |
| 299 | 5- | 05648 | 24328 | 5- | 62648 | 24268 |
| 292 | 52 | 62645 | 20168 | 52 | 02847 | 21368 |
| 310 | | | | | | |
| 614 | 57 | 5648 | 22368 | 57 | 05645 | 20358 |

13h. G.M.T. 21st October 18h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 333 | 62 | 62643 | 22368 | 62 | 22627 | 53568 |
| 334 | -- | 01547 | 28428 | | | |
| 340 | | | | 52 | 61750 | 21367 |
| 136 | 50 | 05644 | 26525 | 03 | 02790 | 20326 |
| 336 | 13 | 01753 | 24313 | 62 | 64526 | 24468 |
| 350 | 13 | 01853 | 24414 | 57 | 61864 | 18328 |
| 368 | 83 | 02854 | 24417 | 52 | 51736 | 53558 |
| 379 | 27 | 02944 | 24426 | 57 | 61745 | 22428 |
| 390 | 16 | 02753 | 25415 | | | |
| 382 | 77 | 02964 | 26326 | 57 | 61865 | 21328 |
| 438 | 84 | 01863 | 22414 | 8- | 02767 | 22427 |
| 430 | 13 | 01854 | 24314 | | | |
| 409 | 8- | 81838 | 25428 | 52 | 61756 | 22428 |

01h. G.M.T. 22nd October 07h. G.M.T.

| III | $C_L C_M$ | wwVhN$_h$ | DDFWN | $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|
| 333 | 62 | 62634 | 55468 | 52 | 02734 | 54468 |
| 334 | | | | -- | 34337 | 24258 |
| 340 | 57 | 02835 | 22468 | 57 | 02944 | 21328 |
| 136 | 52 | 62638 | 22368 | 5- | 62528 | 20468 |
| 336 | | | | 62 | 64526 | 24368 |
| 350 | 52 | 61736 | 20468 | 57 | 61754 | 22467 |
| 368 | 5- | 62548 | 53468 | 02 | 62418 | 56568 |
| 379 | 57 | 02635 | 20428 | 5- | 51628 | 24368 |
| 390 | 02 | 67348 | 21368 | 57 | 03534 | 24266 |
| 382 | 52 | 51735 | 22468 | 62 | 62635 | 57268 |
| 438 | 8- | 52648 | 23658 | 57 | 22734 | 22668 |
| 430 | 5- | 64648 | 25568 | 57 | 22754 | 24468 |
| 409 | 52 | 02745 | 23368 | 5- | 52628 | 22568 |

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 22nd Oct.
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 * ... | bhcwc | ccz₀ | c₀r₀c |
| Croydon ... | bm₀b | cm₀ir₀ | c₀r₀cm₀ |
| Greenwich ... | bbcc | cy | crr₀r₀c |
| Camden Square | b | crr | * |
| *Kensington ... | bcc | cr | * |
| Hampstead ... | bcp | or | o |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·1 7-19hrs 21st
Min. Time 0·1 0-5h 22nd

| 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 ... ... | 56 | 51 | 48 | — | 2 | 6·2 | * | * |
| Croydon ... | 56 | 50 | 47 | Tr | 3 | 6·3 | * | * |
| Greenwich ... | 56 | 50 | 47 | - | 2·8 | 5·3 | 57 | 85 |
| Westminster . | 58 | 50 | 40 | 2·8 | * | * | 69 | 93 |
| Regents Park ... | 58 | 48 | 47 | - | 3·0 | * | 62 | 88 |
| Camden Square | 57 | 49 | 45 | - | 2·8 | * | * | 89 |
| Kensington ... | 58 | 50 | 46 | — | 2·7 | * | 93 | 87 |
| Hampstead | 56 | 46 | 43 | Tr | 2·4 | * | * | 92 |

SECRET

Page 1

BRITISH SECTION

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

Friday 23rd October 1942

No. 29555

## OBSERVATIONS at 13h. G.M.T. 22nd October

| 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) | 15·6 | −4 | W'S | 3 | c | 60 | 85 | 55 | 8 | 5 | – | – | 10 | 10 | 2500 |
| | Croydon ... | 16·6 | −6 | W'S | 3 | c | 60 | 85 | 57 | 7 | 5 | – | – | 10 | 10 | 1500 |
| | S. Farnborough | 15·9 | −10 | W'N | 4 | c | 60 | 85 | 56 | 9 | 5 | – | – | 10 | 10 | 1600 |
| | Boscombe Down | 17·5 | −8 | W | 5 | c | 59 | 92 | 57 | 8 | 5 | – | – | 9 | 10 | 1400 |
| | Thorney Island | 17·4 | −4 | W'S | 4 | c | 60 | 85 | 56 | 7 | 5 | – | – | 2-3 | 10 | 800 |
| | Lympne ... | 16·4 | −6 | W | 2 | c | 59 | 85 | 55 | 8 | 5 | 2 | – | 9 | 10 | 900 |
| | Manston ... | 15·0 | −10 | SW | 3 | c | 60 | 85 | 55 | 8 | 5 | 2 | – | 7-8 | 10 | 2500 |
| 2 | Shoeburyness ... | 15·7 | −6 | WSW | 2 | c | 60 | 85 | 56 | 8 | 5 | – | – | 10 | 10 | 1500 |
| | Felixstowe ... | 14·2 | −10 | SW'S | 3 | 2o | 60 | 85 | 55 | 6 | 5 | 7 | – | 4-6 | 9 | 2600 |
| | Gorleston ... | 12·7 | −8 | W'N | 3 | c-bc | 62 | 85 | 57 | 5 | 5 | 7 | – | 4-6 | 7-8 | 1000 |
| | Mildenhall ... | 12·8 | −10 | WSW | 5 | c | 62 | 85 | 57 | 8 | 5 | 7 | – | 7-8 | 10 | 1500 |
| | Cranwell ... | 11·5 | −4 | W'S | 4 | c | 60 | 85 | 56 | 7 | 5 | 2 | – | 9+ | 10 | 1500 |
| 3 | Birmingham ... | 14·2 | 0 | SW | 3 | c | 59 | 92 | 57 | 7 | 5 | – | – | 10 | 10 | 1500 |
| | Upper Heyford | 14·4 | −6 | W'S | 4 | c | 61 | 85 | 56 | 8 | 5 | 7 | 8 | 4-6 | 9+ | 1000 |
| 4 | Ross-on-Wye | 15·1 | −4 | W'S | 3 | c | 63 | 75 | 56 | 8 | 5 | 4 | – | 7-8 | 9 | 2500 |
| 5 | Hartland Point | 18·2 | +4 | W | 4 | id | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 800 |
| | Bristol ... | 18·0 | −2 | W'S | 4 | ido | 58 | 97 | 57 | 7 | 5 | – | – | 10 | 10 | 400 |
| | Portland Bill ... | 19·0 | −4 | WSW | 5 | c | 59 | 92 | 57 | 7 | 5 | – | – | 10 | 10 | 4000 |
| | Plymouth ... | 20·6 | −6 | W'S | 5 | o/d | 59 | 92 | 57 | 7 | 5 | – | – | 10 | 10 | 1500 |
| | The Lizard ... | 21·8 | −2 | WNW | 6 | ido | 58 | 97 | 58 | 6 | 5 | – | – | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 22·2 | 0 | WSW | 4 | ido | 58 | 97 | 56 | 6 | 5 | – | – | 10 | 10 | 1000 |
| | Guernsey ... | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 16·6 | −2 | W'N | 7 | cf | 58 | 97 | 57 | 3 | 8 | – | – | 10 | 10 | 1500 |
| 7 | Holyhead (Valley) | 12·5 | −4 | SW | 4 | c | 58 | 97 | 57 | 8 | 5 | 7 | – | 9 | 9+ | 2500 |
| | Chester (Sealand) | 12·0 | +4 | WSW | 2 | 2o | 61 | 92 | 59 | 6 | 5 | 2 | – | 4-6 | 10 | 2500 |
| 8 | Manchester ... | 11·9 | 0 | S'W | 3 | fofo | 60 | 85 | 57 | 6 | 5 | 2 | – | 7-8 | 10 | 800 |
| 10 | Spurn Head ... | 10·6 | −2 | W'S | 5 | 2o | 59 | 85 | 54 | 6 | 5 | 2 | – | 4-6 | 10 | 2500 |
| | Catterick ... | 08·6 | +4 | WSW | 3 | c | 60 | 92 | 56 | 8 | 5 | 7 | – | 7-8 | 10 | 2200 |
| | Tynemouth ... | 07·2 | −2 | W | 5 | c | 60 | 85 | 54 | 7 | 8 | – | – | 9 | 9 | 2200 |
| 11 | St. Abbs Head | 03·1 | 0 | W | 5 | c-bc | 57 | 65 | 45 | 8 | 5 | 7 | – | 4-6 | 7-8 | 3000 |
| | Leuchars ... | 02·0 | +6 | WSW | 5 | bc | 59 | 75 | 50 | 8 | 1 | 3 | 8 | 2-3 | 4-6 | 3000 |
| 12 | Renfrew (Abbots I.) | 05·7 | −2 | W'S | 5 | c-bc | 57 | 65 | 46 | 7 | 8 | 7 | 5 | 4-6 | 7-8 | 1600 |
| | Eskdalemuir ... | 04·8 | −4 | W | 6 | c-bc | 54 | 65 | 43 | 8 | 5 | 4 | 1 | 4-6 | 7-8 | 2200 |
| | Point of Ayre ... | 09·0 | 0 | W'N | 6 | c | 59 | 92 | 57 | 8 | 4 | 7 | – | 1 | 9+ | 2000 |
| 13A | Tiree ... ... | 04·9 | +2 | W'S | 5 | c/pr | 54 | 85 | 48 | 8 | 8 | 3 | – | 9 | 9+ | 3000 |
| 13B | Stornoway ... | 99·0 | +20 | WSW | 7 | c | 53 | 85 | 49 | 6 | 5 | 7 | – | 7-8 | 9+ | 2000 |
| 15 | Dalwhinnie ... | 02·5 | +6 | SW | 3 | c | 50 | 75 | 41 | 7 | 5 | – | – | 9+ | 9+ | 2500 |
| | Aberdeen ... | 00·3 | +10 | W'N | 3 | b-bc | 59 | 65 | 45 | 8 | 7 | 5 | 5 | 2-3 | 2-3 | 3000 |
| | Wick ... | 97·2 | +6 | WSW | 6 | bc | 53 | 65 | 41 | 9 | 8 | – | 3 | 2-3 | 4-6 | 1500 |
| 16 | Sumburgh ... | 92·3 | −30 | W'S | 7 | c/d | 51 | 92 | 49 | 8 | 5 | 2 | – | 7-8 | 9+ | 1500 |
| 17 | Blacksod Point | 11·3 | +2 | SW | 3 | c | 56 | 85 | 52 | 8 | 5 | – | – | 10 | 10 | 2500 |
| 18 | Malin Head ... | 07·3 | +6 | W'N | 5 | c-bc | 55 | 85 | 51 | 8 | 4 | – | – | 7-8 | 7-8 | 1500 |
| | Aldergrove ... | 09·7 | +10 | WSW | 4 | c | 57 | 75 | 48 | 8 | 8 | 7 | – | 7-8 | 9+ | 2000 |
| 19 | Birr Castle ... | 13·1 | 0 | SW | 3 | dd | 59 | 97 | 58 | 7 | 6 | 2 | – | 7-8 | 10 | 800 |
| 20 | Valentia Obsy. | 16·0 | −8 | SW | 4 | dodo | 58 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 450 |
| | Roches Point | 16·1 | −6 | W | 4 | ido | 60 | 97 | 59 | 8 | 5 | – | – | 9+ | 9+ | 1500 |

## OBSERVATIONS at 18h. G.M.T. 22nd October

| District | Stations | Barom. at M.S.L. mb. (16) | Change in 3 hours. (17) | Wind. Direc. (18) | Wind. Force 0–12 (19) | Weather. (20) | Temp. °F. (21) | % Humid. (22) | Dew Point. °F. (23) | Visibility 0–9 (24) | Cloud. Form. Low. (25) | Form. Med. (26) | Form. High (27) | Amount. Low 0–10 (28) | Amount. Total 0–10 (29) | Height of Base (feet) (30) | State of Ground. 0–9 (31) | Sea 0–9 (32) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 15·9 | +4 | SWW | 4 | c | 60 | 85 | 55 | 8 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Croydon ... | 16·4 | −2 | WSW | 4 | c | 60 | 92 | 58 | 6 | 5 | – | – | 10 | 10 | 900 | 1 | * |
| | S. Farnborough | 15·7 | 0 | W | 4 | c | 59 | 85 | 56 | 8 | 5 | 2 | – | 9 | 9+ | 1300 | 1 | * |
| | Boscombe Down | 17·3 | +2 | W'S | 3 | c | 58 | 97 | 56 | 7 | 5 | – | – | 10 | 10 | 900 | 1 | * |
| | Thorney Island | 17·4 | +4 | SW | 4 | 2o | 60 | 92 | 57 | 6 | 5 | * | – | 7-8 | 10 | 1000 | 1 | * |
| | Lympne ... | 15·8 | +2 | WSW | 2 | c/r | 58 | 92 | 56 | 7 | 5 | 3 | – | 9+ | 10 | 1000 | 1 | 4 |
| | Manston ... | 14·7 | +2 | WSW | 3 | c/r | 59 | 92 | 56 | 7 | 5 | 7 | – | 7-8 | 9+ | 2100 | 1 | * |
| 2 | Shoeburyness ... | 15·3 | +2 | WSW | 4 | ifo | 60 | 85 | 56 | 6 | 5 | – | – | 10 | 10 | 3100 | 1 | * |
| | Felixstowe ... | 13·8 | +2 | SW'S | 3 | c/r | 59 | 92 | 56 | 6 | 5 | 7 | – | 4-6 | 9+ | 2500 | 1 | 3 |
| | Gorleston ... | 12·5 | 0 | WSW | 2 | ifo | 60 | 85 | 56 | 6 | 5 | – | – | 9+ | 9+ | 1800 | 1 | 3 |
| | Mildenhall ... | 12·8 | −2 | SW | 3 | 2o | 60 | 92 | 57 | 6 | 5 | 7 | – | 7-8 | 10 | 2000 | 1 | * |
| | Cranwell ... | 11·3 | +4 | WSW | 4 | c/r | 59 | 92 | 56 | 6 | 5 | 2 | – | 9 | 9+ | 1000 | 1 | * |
| 3 | Birmingham ... | 13·1 | −2 | SW | 3 | c | 59 | 85 | 55 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Upper Heyford | 14·2 | −2 | WSW | 4 | c-bc | 58 | 92 | 56 | 7 | 5 | 7 | – | 4-6 | 7-8 | 1000 | 1 | * |
| 4 | Ross-on-Wye | 14·4 | −4 | WSW | 4 | c | 60 | 85 | 55 | 8 | 5 | 7 | – | 9 | 9+ | 2500 | 1 | * |
| 5 | Hartland Point | 16·5 | −4 | W | 5 | o/d | 57 | 97 | 57 | 5 | 5 | – | – | 10 | 10 | 800 | 1 | 5 |
| | Bristol ... | 17·2 | +2 | W'S | 5 | dodo | 51 | 97 | 50 | 4 | 5 | – | – | 10 | 10 | 400 | 1 | * |
| | Portland Bill ... | 17·9 | −4 | W | 5 | c | 59 | 85 | 54 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | 5 |
| | Plymouth ... | 19·9 | −2 | WSW | 5 | ido | 58 | 97 | 58 | 6 | 5 | – | – | 10 | 10 | 600 | 1 | 4 |
| | The Lizard ... | 20·6 | −4 | W'S | 6 | df | 57 | 97 | 57 | 1 | 5 | – | – | 10 | 10 | 300 | 1 | 5 |
| | Scilly (St. Mary's) | 20·3 | −6 | SW'W | 5 | drf | 57 | 97 | 57 | 2 | – | – | – | 10 | 10 | <150 | 1 | 4 |
| | Guernsey ... | | | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 14·9 | −4 | W | 7 | o9 | 57 | 97 | 57 | 5 | 5 | – | – | 10 | 10 | 1000 | 1 | 5 |
| 7 | Holyhead (Valley) | 11·8 | −2 | W'S | 3 | o/r | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | 4 |
| | Chester (Sealand) | 11·0 | +4 | SSW | 2 | ido | 60 | 97 | 59 | 6 | 5 | 2 | – | 7-8 | 10 | 2000 | 1 | * |
| 8 | Manchester ... | 11·1 | −2 | SW'S | 3 | dodo | 57 | 97 | 57 | 5 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| 10 | Spurn Head ... | 10·8 | +6 | W | 5 | 2o | 59 | 85 | 53 | 6 | 5 | 2 | – | 4-6 | 10 | 1500 | 0 | 3 |
| | Catterick ... | 08·6 | +2 | WSW | 3 | c | 58 | 75 | 50 | 8 | 5 | 7 | – | 7-8 | 9+ | 2500 | 0 | * |
| | Tynemouth ... | 07·5 | +4 | W | 5 | 2o | 56 | 75 | 48 | 6 | 8 | – | – | 9 | 9 | 2500 | 0 | 3 |
| 11 | St. Abbs Head | 04·6 | +8 | W | 4 | c-bc | 53 | 65 | 40 | 7 | 5 | 4 | – | 4-6 | 7-8 | 3500 | 0 | 4 |
| | Leuchars ... | 02·8 | +6 | SW | 4 | c-bc | 53 | 85 | 47 | 8 | 4 | 3 | – | 7-8 | 7-8 | 3000 | 1 | * |
| 12 | Renfrew (Abbots I.) | 05·8 | +6 | SSW | 4 | c/r | 53 | 75 | 45 | 7 | 5 | 7 | – | 7-8 | 9 | 1600 | 1 | * |
| | Eskdalemuir ... | 06·1 | 0 | WSW | 6 | bc | 50 | 75 | 42 | 8 | 5 | 7 | – | 2-3 | 4-6 | 2800 | 1 | * |
| | Point of Ayre ... | 09·0 | 0 | W'N | 4 | c | 55 | 85 | 51 | 8 | – | 7 | 7 | 0 | 10 | – | 1 | 3 |
| 13A | Tiree ... ... | 04·2 | −2 | W'S | 5 | c-bcjp | 51 | 85 | 47 | 8 | 8 | 3 | – | 7-8 | 7-8 | 2500 | 1 | |
| 13B | Stornoway ... | 95·6 | −26 | WSW | 6 | c-bc | 50 | 92 | 48 | 7 | 5 | 7 | – | 4-6 | 7-8 | 2500 | 1 | 3 |
| 15 | Dalwhinnie ... | 01·3 | −2 | SW | 3 | pr | 46 | 85 | 43 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| | Aberdeen ... | 00·6 | −2 | W'S | 3 | bc | 58 | 65 | 41 | 7 | 5 | – | – | 4-6 | 4-6 | 3500 | 1 | 1 |
| | Wick ... | 96·6 | −6 | SSW | 4 | bc | 49 | 75 | 43 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 | 1 | * |
| 16 | Sumburgh ... | 92·5 | +4 | WSW | 6 | bc/pr | 50 | 85 | 46 | 8 | 2 | 3 | – | 4-6 | 4-6 | 1800 | 1 | 4 |
| 17 | Blacksod Point | 11·2 | +2 | WSW | 4 | c | 54 | 92 | 52 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 1 | 3 |
| 18 | Malin Head ... | 06·8 | −2 | WNW | 5 | c/pr | 52 | 92 | 50 | 8 | 5 | 2 | – | 4-6 | 9+ | 2500 | 2 | 4 |
| | Aldergrove ... | 09·1 | −2 | SW | 3 | c | 53 | 75 | 47 | 8 | 5 | 7 | – | 4-6 | 9+ | 2500 | 1 | * |
| 19 | Birr Castle ... | 13·8 | +2 | WSW | 2 | c | 54 | 92 | 52 | 7 | 6 | 2 | – | 4-6 | 10 | 800 | 1 | * |
| 20 | Valentia Obsy. | 15·0 | −2 | SW | 4 | dodo | 57 | 97 | 56 | 6 | 5 | – | – | 10 | 10 | 220 | 1 | 4 |
| | Roches Point | 14·9 | −4 | W | 4 | c | 59 | 92 | 57 | 8 | 5 | – | – | 9 | 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) | cifoc | c | c | cdoc |
| | Croydon ... | cmocmoifoccomo | cmoc | ccido | bc |
| | S. Farnborough | cfomoifoc | cvc | c | cdodo |
| | Boscombe Down | cidoc | cidoc | c | cdodo |
| | Thorney Island | cfoifoc | ccmo | cmoc | cifo |
| | Lympne ... | cmoifoc | cifoc | cmoc | c |
| | Manston ... | cmoimfc | cffofomo | ifoc | c |
| 2 | Shoeburyness ... | c | cifomo | cifomoc | cmoc |
| | Felixstowe ... | cfofomocmocciforofoccmoc | | cbcc | |
| | Gorleston ... | oifoc | cifofo | c | cffoz |
| | Mildenhall ... | ccidoc | ccfofoc | cmoc | fofoidomo |
| | Cranwell ... | cmoc | cifomo | cfofodododomocmoc | |
| 3 | Birmingham ... | ofoc | c | co | offo |
| | Upper Heyford | idifoc | c | ccmo | cmododo |
| 4 | Ross-on-Wye | c | c | c | c |
| 5 | Hartland Point | cididc | ido | oidodo | dodoido |
| | Bristol ... | cfofoido | cmodododo | cdomo | cdododdmo |
| | Portland Bill ... | c | c | o | offc |
| | Plymouth ... | cifido | cidomo | cododom | odododdmo |
| | The Lizard ... | oid | oiddf | ofddc | cdfo |
| | Scilly (St. Mary's) | cido | idoffe | ffecf | ffeoc |
| | Guernsey ... | | | | |
| 6 | Pembroke ... | cdfdf | cdfmoq | fomoid | cdf |
| 7 | Holyhead (Valley) | cifc | cidodo | cifoc | cifoc |
| | Chester (Sealand) | cidomo | cmoido | cffmo | ccmo |
| 8 | Manchester ... | mofo | cdodofofo | ffdd | cifo |
| 10 | Spurn Head ... | cmo | cmo | cmopfoc | bc |
| | Catterick ... | c | c | cbccbc | bc |
| | Tynemouth ... | c | c | cbc | bc |
| 11 | St. Abbs Head | cbc | cbcc | bccb | bbc |
| | Leuchars ... | cbcbc | cjpbcc | cbcb | bbcb |
| 12 | Renfrew (Abbots I.) | cbc | bcpfocifocccpfobc | | cbcprpro |
| | Eskdalemuir ... | cfodoc | cbc | bcpfo | bcproc |
| | Point of Ayre ... | cifoc | c | cbccb | bbcc |
| 13A | Tiree ... ... | oifo cpr | cpfocjp | bccprb | bccpr |
| 13B | Stornoway ... | c | cpr | prc | cir |
| 15 | Dalwhinnie ... | opfoc | cpfo | | cifo |
| | Aberdeen ... | cmocyc | cbcybc | bcb | bw |
| | Wick ... | cbc | bcbc | cbc | cpfoc |
| 16 | Sumburgh ... | cmododocc, cpr | | cprcpr | cpfofomoc |
| 17 | Blacksod Point | c | c | c | d |
| 18 | Malin Head ... | r | pr | pr | r |
| | Aldergrove ... | cdodofc | c | cpfoc | cbcc |
| 19 | Birr Castle ... | d | d | | d |
| 20 | Valentia Obsy. | r | d | d | r |
| | Roches Point | d | d | d | d |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 23rd October 1942

| Districts | Forecasts |
|---|---|
| 1 S.E. England<br>2 E. England ...<br>3 E. Midlands ...<br>4 W. Midlands<br>5 S.W. England<br>6 South Wales<br>7 North Wales | Moderate or fresh West-Southwest wind veering West-northwest later; dull at first with occasional rain or drizzle and with much hill fog and some coast fog in the West; fair weather with some bright intervals later spreading from northwest; rather warm and close becoming colder. |
| 8 N.W. England<br>9 N. Midlands ...<br>10 N.E. England | Moderate Westerly winds; fair at first; becoming dull and rainy for a time, then fair again; rather cold. |
| 11 S.E. Scotland<br>12 S.W. Scotland & Isle of Man<br>13A W. Scotland ...<br>13B N.W. Scotland<br>14 Mid Scotland<br>15 N.E. Scotland | Moderate or fresh West or Northwest winds; some scattered showers, more especially in the North and West; bright intervals; rather cold. |
| 16 Orkneys and Shetlands<br>17 N. W. Ireland<br>18 N. E. Ireland | As 11-15. |
| 19 S. E. Ireland<br>20 S. W. Ireland | Variable winds becoming West-northwest moderate to fresh; dull at first with widespread drizzle; fair later apart from scattered showers; rather warm and close becoming colder. |

### GENERAL INFERENCE

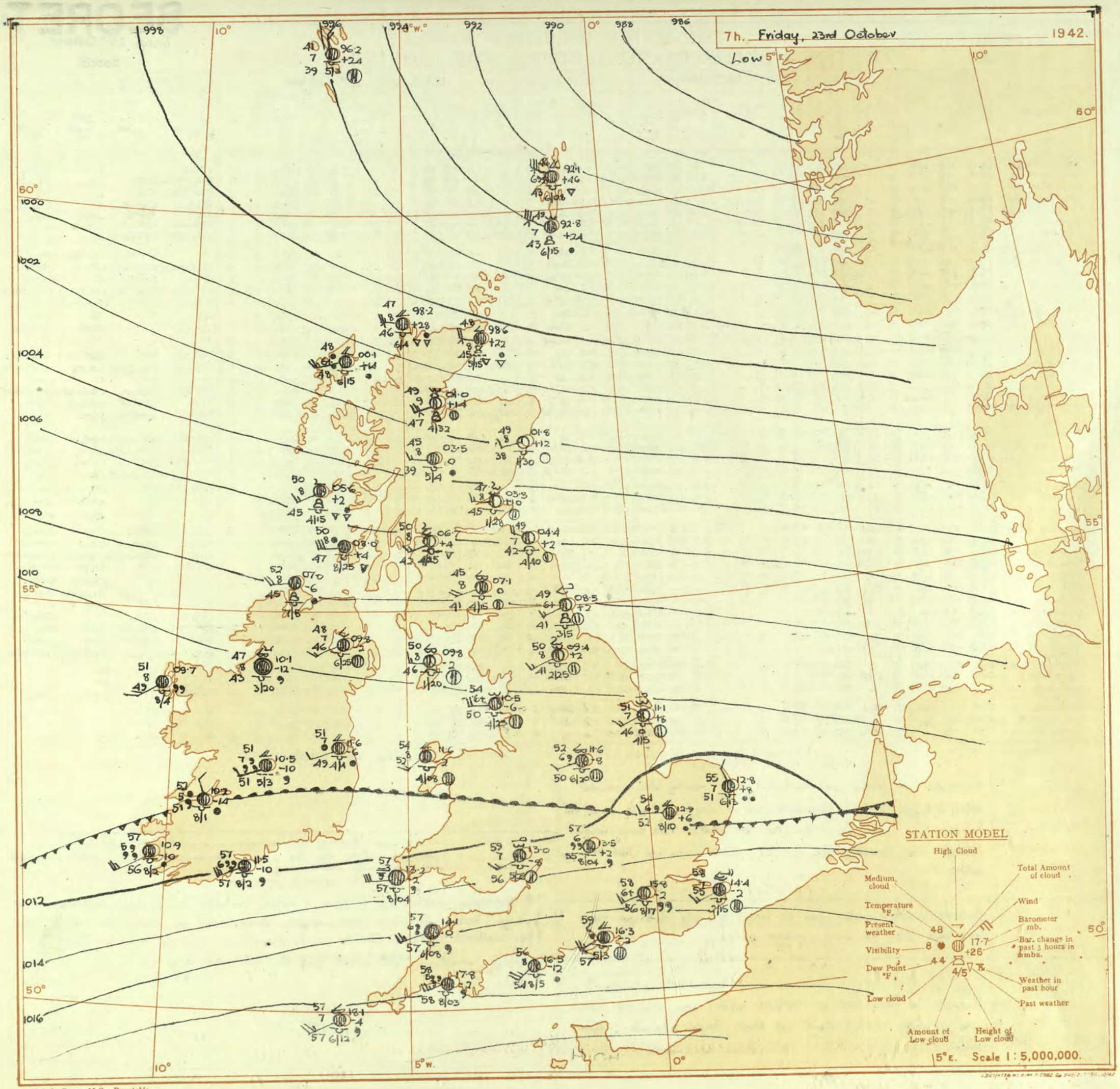
A depression northeast of Shetland is moving northeast and a small secondary over Southern Ireland is moving east-northeast. Weather will be fair in the North apart from scattered showers. In the South it will be dull and rainy at first, but improving conditions will spread from the Northwest later.

### FURTHER OUTLOOK

Mainly fair.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

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

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

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

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

BRITISH SECTION

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

Friday 23rd October 1942

No. 29555

## OBSERVATIONS at 1 hr. G.M.T. 23rd October

| 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 | 16·5 | −2 | NSW | 4 | c | 60 | 85 | 57 | 7 | 5 | – | – | 10 | 10 | 1300 |
| | S. Farnborough | 226 | 16·1 | −2 | W'S | 4 | c | 59 | 85 | 56 | 7 | 5 | – | – | 10 | 10 | 1100 |
| | Boscombe Down | 417 | 16·9 | −4 | W'S | 3 | c | 58 | 92 | 56 | 8 | 5 | 7 | – | 7·8 | 9 | 1500 |
| | Thorney Island | 10 | 17·1 | −2 | SW'W | 4 | c | 60 | 92 | 57 | 7 | 5 | 1 | – | 9 | 10 | 1100 |
| | Lympne .. | 283 | 16·3 | −2 | SW | 2 | c | 58 | 92 | 56 | 7 | 5 | – | – | 10 | 10 | 1000 |
| | Manston ... | 154 | 14·9 | −6 | WSW | 3 | c | 59 | 85 | 55 | 7 | 5 | – | – | 10 | 10 | 1400 |
| 2 | Shoeburyness... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 13·5 | −2 | SW | 5 | c | 60 | 85 | 56 | 7 | 5 | – | – | 9+ | 9+ | 2300 |
| | Gorleston ... | 5 | 12·2 | −2 | W'N | 3 | c | 60 | 85 | 56 | 7 | 5 | – | – | 9+ | 9+ | 1500 |
| | Mildenhall ... | 15 | 12·5 | −2 | SW'W | 5 | c | 60 | 85 | 56 | 8 | 5 | 3 | – | 2-3 | 9+ | 2000 |
| | Cranwell ... | 203 | 11·9 | +10 | W'N | 3 | d₀d₀ | 55 | 92 | 53 | 6 | 5 | 2 | – | 7·8 | 10 | 1000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 13·8 | −6 | W | 5 | z₀ | 58 | 92 | 56 | 6 | 5 | – | – | 7·8 | 10 | 800 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 16·4 | −4 | WSW | 5 | d₀d₀ | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 800 |
| | Bristol ... | 209 | 16·8 | +2 | NSW | 3 | d₀d₀ | 58 | 97 | 57 | 5 | 5 | – | – | 10 | 10 | 500 |
| | Portland Bill ... | 32 | 18·4 | 0 | W | 5 | 0 | 56 | 92 | 54 | 8 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth ... | 82 | 19·8 | +2 | WSW | 5 | d₀d₀ | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 600 |
| | The Lizard ... | 240 | 20·4 | 0 | WSW | 5 | c | 57 | 97 | 57 | 8 | 8 | 2 | – | 7·8 | 9+ | 1000 |
| | Scilly (St. Mary's) | 163 | 19·3 | −12 | SW'W | 5 | f+ | 56 | 97 | 55 | 2 | – | – | – | 10 | 10 | <150 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 15·3 | −4 | W | 6 | c/d | 57 | 97 | 57 | 6 | 8 | – | – | 9+ | 9+ | 1500 |
| 7 | Holyhead (Valley) | 32 | 13·1 | 0 | W'S | 4 | c | 55 | 85 | 53 | 8 | 5 | 2 | – | 4-6 | 10 | 4400 |
| | Chester (Sealand) | 16 | 12·6 | +6 | W'N | 2 | c | 55 | 92 | 53 | 6 | 5 | 2 | – | 9 | 10 | 2500 |
| 8 | Manchester ... | 235 | 12·6 | +6 | SW'W | 4 | c/d | 52 | 92 | 49 | 8 | 5 | 7 | – | 4-6 | 10 | 2500 |
| 10 | Spurn Head ... | 29 | 10·8 | −2 | W'S | 5 | c | 53 | 85 | 49 | 7 | 5 | 2 | – | 7·8 | 10 | 1500 |
| | Catterick ... | 175 | 09·5 | 0 | W | 2 | bc | 52 | 85 | 46 | 8 | 5 | 3 | – | 2-3 | 4-6 | 3000 |
| | Tynemouth ... | 108 | 07·9 | +2 | W | 3 | bc | 52 | 75 | 46 | 7 | 2 | 3 | 1 | 2-3 | 4-6 | 2500 |
| 11 | St. Abbs Head | 280 | 04·5 | 0 | W | 4 | b-bc | 49 | 75 | 42 | 7 | 5 | – | – | 2-3 | 2-3 | 4000 |
| | Leuchars ... | 36 | 02·9 | +4 | NSW | 4 | bc | 49 | 85 | 46 | 8 | 5 | – | – | Tr | Tr | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 06·9 | −2 | WSW | 5 | bc | 50 | 75 | 43 | 8 | 3 | – | – | 4-6 | 4-6 | 2500 |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 10·4 | +4 | NW'W | 5 | b-bc | 53 | 85 | 48 | 8 | 1 | 4 | – | 1 | 2-3 | 3000 |
| 13A | Tiree ... ... | 22 | 05·9 | +6 | W'S | 6 | b | 51 | 75 | 43 | 8 | 8 | 4 | – | 1 | 1 | 2500 |
| 13B | Stornoway ... | 80 | 98·8 | +26 | WSW | 8 | b-bc/pr | 49 | 92 | 48 | 9 | 3 | – | – | 2-3 | 2-3 | 2800 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 00·9 | +2 | WSW | 2 | b | 47 | 75 | 41 | 9 | – | – | – | 0 | 0 | – |
| | Wick ... | 114 | 96·3 | −2 | SW | 5 | bc | 49 | 75 | 41 | 9 | 8 | – | – | 4-6 | 4-6 | 2500 |
| 16 | Sumburgh .. | 19 | 89·3 | −6 | W'S | 8 | pr | 50 | 85 | 46 | 8 | 8 | – | – | 10 | 10 | 1500 |
| 17 | Blacksod Point | 18 | 11·5 | −2 | W | 3 | c | 53 | 85 | 49 | 8 | 5 | – | – | 9+ | 9+ | 2500 |
| 18 | Malin Head ... | 84 | 07·9 | +4 | W'S | 5 | c-bc | 52 | 75 | 44 | 8 | 9 | 2 | – | 4-6 | 7-8 | 2500 |
| | Aldergrove ... | 268 | 10·7 | +2 | WSW | 2 | c | 50 | 85 | 46 | 8 | 8 | – | – | 9+ | 9+ | 2500 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 14·1 | −6 | SSW | 1 | d₀d₀ | 54 | 97 | 53 | 4 | 5 | – | – | 10 | 10 | 220 |
| | Roches Point | 22 | 14·0 | −4 | W'S | 4 | d₀d₀ | 57 | 97 | 56 | 7 | 5 | – | – | 9+ | 9+ | 800 |

## OBSERVATIONS at 7 hr. G.M.T. 23rd October

| 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) | 14·5 | −4 | SW | 3 | c/d | 58 | 92 | 55 | 8 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| Croydon ... | 15·8 | −2 | SW | 3 | c/d | 58 | 92 | 56 | 6 | 5 | – | – | 10 | 10 | 1700 | 1 | * |
| S. Farnborough | 15·0 | −4 | SW'W | 4 | c | 59 | 85 | 53 | 8 | 5 | 7 | – | 9+ | 10 | 900 | 1 | * |
| Boscombe Down | 16·0 | −8 | SW | 5 | d₀d₀ | 58 | 92 | 57 | 8 | 5 | 7 | – | 9+ | 10 | 500 | 0 | * |
| Thorney Island | 16·3 | −2 | SW'W | 5 | i₀ | 59 | 97 | 57 | 6 | 5 | 2 | – | 7·8 | 10 | 800 | 1 | * |
| Lympne .. | 15·7 | −2 | W | 3 | c | 57 | 97 | 56 | 8 | 5 | – | – | 10 | 10 | 600 | 1 | § 5 |
| Manston ... | 14·4 | −2 | SW'W | 3 | c | 58 | 85 | 55 | 7 | 5 | 9 | 2 | 1 | 9 | 1500 | 1 | * |
| Shoeburyness... | 14·9 | −4 | SW | 3 | c | 60 | 85 | 55 | 7 | 5 | 4 | – | 7·8 | 9 | 4000 | 0 | * |
| Felixstowe ... | 13·2 | −2 | SW'S | 4 | c | 60 | 85 | 56 | 7 | 5 | 7 | – | 7·8 | 9+ | 3500 | 0 | 3 |
| Gorleston ... | 12·8 | +8 | NW'W | 2 | s/r | 55 | 85 | 51 | 7 | 5 | – | – | 9 | 9 | 1300 | 1 | 2 |
| Mildenhall ... | 12·9 | +6 | W | 2 | i d₀ | 54 | 97 | 52 | 6 | – | 2 | – | 10 | 10 | 1000 | 1 | * |
| Cranwell ... | 11·6 | −4 | SW'W | 3 | c | 52 | 85 | 48 | 7 | – | 7 | – | 0 | 9+ | – | 1 | * |
| Birmingham ... | 11·8 | −8 | SW | 2 | d₀d₀ | 55 | 97 | 54 | 5 | 6 | – | – | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 13·5 | +2 | SW | 4 | d₀d₀ | 57 | 97 | 55 | 6 | 6 | – | – | 10 | 10 | 400 | 1 | * |
| Ross-on-Wye | 13·0 | −8 | SW | 3 | c | 59 | 92 | 56 | 7 | 5 | 3 | 1 | 7·8 | 9+ | 2500 | 1 | * |
| Hartland Point | 14·1 | 0 | WSW | 5 | id | 57 | 97 | 57 | 6 | 5 | – | – | 10 | 10 | 800 | 1 | 5 |
| Bristol ... | 15·6 | −4 | WSW | 3 | c/d | 58 | 97 | 58 | 6 | 5 | 3 | – | 9 | 9+ | 700 | 1 | * |
| Portland Bill ... | 16·5 | −12 | SW | 5 | 0 | 56 | 92 | 54 | 8 | 5 | – | – | 10 | 10 | 2500 | 1 | 5 |
| Plymouth ... | 17·8 | −2 | WSW | 5 | dd | 58 | 97 | 58 | 5 | 5 | – | – | 10 | 10 | 300 | 1 | 4 |
| The Lizard ... | 18·9 | −4 | W | 6 | 0 | 57 | 97 | 57 | 8 | 5 | – | – | 10 | 10 | 1000 | 1 | 5 |
| Scilly (St. Mary's) | 18·1 | −4 | SW'W | 5 | c | 57 | 97 | 57 | 7 | 5 | 7 | – | 9 | 9+ | 1200 | 1 | 4 |
| Guernsey ... | | | | | | | | | | | | | | | | | |
| Pembroke ... | 13·2 | −2 | W | 6 | df | 57 | 97 | 57 | 3 | 5 | – | – | 10 | 10 | 1500 | 1 | 5 |
| Holyhead (Valley) | 11·6 | −2 | SW'S | 3 | c | 54 | 97 | 52 | 8 | 5 | 2 | – | 4-6 | 10 | 800 | 1 | 3 |
| Chester (Sealand) | 11·3 | −6 | SW | 2 | z₀ | 54 | 85 | 51 | 6 | 5 | 2 | – | 7·8 | 10 | 2500 | 1 | * |
| Manchester ... | 11·5 | −14 | SSW | 3 | i d₀ | 51 | 97 | 51 | 4 | 5 | 2 | – | 7·8 | 10 | 1500 | 1 | * |
| Spurn Head ... | 11·1 | +8 | SW'W | 3 | bc | 51 | 85 | 46 | 7 | 7 | 3 | 1 | 4·6 | 4-6 | 2500 | 1 | 3 |
| Catterick ... | 09·4 | +2 | WSW | 3 | bc | 50 | 75 | 41 | 8 | 5 | 3 | 9 | 1 | 4-6 | 2500 | 0 | * |
| Tynemouth ... | 08·5 | +2 | WSW | 3 | bc | 49 | 75 | 41 | 6 | 8 | 4 | 1 | 2-3 | 4-6 | 2500 | 1 | 2 |
| St. Abbs Head | 04·4 | +2 | WNW | 4 | bc | 49 | 75 | 42 | 7 | 4 | – | – | 4-6 | 4-6 | 4000 | 0 | 5 |
| Leuchars ... | 03·3 | +10 | W | 3 | b-bc | 47 | 92 | 45 | 8 | 5 | 3 | 9 | Tr | 2-3 | 2800 | 1 | * |
| Renfrew (Abbots I.) | 06·7 | +4 | SW | 3 | bc | 50 | 75 | 42 | 8 | 4 | 4 | 5 | 4-6 | 4-6 | 2500 | 1 | * |
| Eskdalemuir ... | 07·1 | 0 | SW'W | 4 | c-bc | 45 | 85 | 41 | 8 | 5 | 7 | – | 4-6 | 7-8 | 1500 | 1 | * |
| Point of Ayre... | 09·8 | −2 | W | 3 | bc | 50 | 85 | 46 | 8 | 4 | 7 | – | Tr | 4-6 | 2000 | 0 | 3 |
| Tiree ... ... | 05·6 | +2 | SW'W | 3 | s/pr | 50 | 85 | 45 | 8 | 8 | – | 5 | 4-6 | 9 | 1500 | 1 | |
| Stornoway ... | 00·1 | +14 | NSW | 5 | ir | 48 | 97 | 48 | 6 | 5 | 2 | – | 9 | 10 | 1500 | 2 | 3 |
| Dalwhinnie ... | 03·5 | 0 | W | 3 | c-bc | 45 | 85 | 39 | 8 | 5 | – | – | 7·8 | 7·8 | 1500 | 1 | * |
| Aberdeen † ... | 01·8 | +12 | WSW | 2 | b | 49 | 65 | 38 | 8 | 5 | – | – | Tr | Tr | 3000 | 1 | 1 |
| Wick ... | 98·6 | +22 | W'N | 4 | s/pr | 48 | 85 | 45 | 8 | 9 | 1 | – | 7·8 | 10 | 1500 | 1 | * |
| Sumburgh .. | 92·8 | +24 | WNW | 7 | c | 48 | 85 | 43 | 7 | 8 | 3 | – | 9 | 9+ | 1500 | 1 | 4 |
| Blacksod Point | 09·7 | −6 | SW | 3 | c/d | 51 | 92 | 49 | 8 | 5 | – | – | 10 | 10 | 1500 | 1 | 2 |
| Malin Head ... | 07·0 | −6 | W'S | 4 | c | 52 | 75 | 45 | 8 | 8 | – | – | 9+ | 9+ | 2500 | 2 | 5 |
| Aldergrove ... | 09·8 | −2 | SW'S | 3 | c | 48 | 92 | 46 | 7 | 5 | 4 | – | 9 | 9+ | 2500 | 1 | * |
| Birr Castle ... | 10·5 | −10 | WSW | 2 | dd | 51 | 97 | 50 | 7 | 6 | 2 | – | 7·8 | 10 | 800 | 1 | * |
| Valentia Obsy. | 10·9 | −10 | SW'W | 5 | dd | 57 | 97 | 56 | 5 | 5 | – | – | 10 | 10 | 450 | 1 | 4 |
| Roches Point | 11·5 | −10 | WSW | 5 | dd | 57 | 97 | 56 | 6 | 5 | – | – | 10 | 10 | 450 | 1 | 5 |

## 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 22nd Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 61 | 58 | 56 | Tr | Tr | 0·0 |
| Croydon ... | 61 | 58 | 43 | Tr | 0·1 | 0·0 |
| S. Farnborough | 61 | 58 | 57 | 0·5 | – | 0·0 |
| Boscombe Down | 61 | 56 | 51 | 0·2 | 0·1 | 0·0 |
| Thorney Island | 62 | 58 | 56 | Tr | Tr | * |
| Lympne .. | 59 | 57 | 57 | Tr | – | 0·0 |
| Manston ... | 60 | 58 | 56 | 0·5 | 0·1 | x |
| Shoeburyness... | 61 | 59 | 55 | 0·1 | Tr | 0·0 |
| Felixstowe ... | 62 | 58 | 54 | 0·2 | – | 0·0 |
| Gorleston ... | 62 | 55 | 54 | 1 | 1 | 0·5 |
| Mildenhall ... | 62 | 53 | 53 | 0·6 | 1 | 0·0 |
| Cranwell ... | 62 | 51 | 49 | Tr | 3 | 0·1 |
| Birmingham ... | 61 | 53 | 52 | 0·2 | 4 | 0·0 |
| Upper Heyford | 61 | 56 | 54 | Tr | Tr | * |
| Ross-on-Wye | 64 | 58 | 55 | – | – | 0·9 |
| Hartland Point | 57 | 57 | 56 | 0·5 | 1 | 0·0 |
| Bristol ... | 59 | 57 | 56 | 1 | 5 | 0·0 |
| Portland Bill ... | 59 | 55 | * | – | 0·3 | * |
| Plymouth ... | 59 | 57 | 56 | Tr | 1 | 0·0 |
| The Lizard ... | 58 | 56 | * | Tr | 0·5 | 0·0 |
| Scilly (St. Mary's) | 59 | 56 | * | Tr | Tr | 0·0 |
| Guernsey ... | | | | | | |
| Pembroke ... | 58 | 50 | * | 0·5 | 1 | 0·0 |
| Holyhead (Valley) | 59 | 53 | 51 | 1 | 1 | * |
| Chester (Sealand) | 63 | 54 | 51 | 0·3 | 1 | 0·4 |
| Manchester ... | 61 | 51 | 48 | 1 | 7 | * |
| Spurn Head ... | 59 | 50 | * | Tr | 0·1 | 0·0 |
| Catterick ... | 61 | 49 | 44 | – | – | 0·0 |
| Tynemouth ... | 61 | 50 | 47 | – | – | * |
| St. Abbs Head | 59 | 48 | * | Tr | – | |
| Leuchars ... | 60 | 42 | 42 | – | – | 5·2 |
| Renfrew (Abbots I.) | 57 | 48 | 44 | 0·1 | 0·2 | 2·1 |
| Eskdalemuir ... | 58 | 44 | 41 | 1 | 0·4 | 2·9 |
| Point of Ayre... | 60 | 49 | * | 0·2 | – | 0·2 |
| Tiree ... ... | 55 | 47 | * | 1 | 0·4 | 1·8 |
| Stornoway ... | 54 | 47 | * | 1 | 1 | 1·7 |
| Dalwhinnie ... | 50 | 43 | 38 | 0·1 | 0·2 | 2·7 |
| Aberdeen † ... | 59 | 47 | 38 | – | – | 2·2 |
| Wick ... | 56 | 45 | 42 | 1 | 0·5 | * |
| Sumburgh .. | 52 | 47 | 45 | 5 | 3 | 0·1 |
| Blacksod Point | 56 | 48 | * | 0·2 | 2 | * |
| Malin Head ... | 56 | 49 | | 0·1 | 0·3 | 1·7 |
| Aldergrove ... | 57 | 47 | 44 | 0·1 | 0·1 | 0·2 |
| Birr Castle ... | 59 | 51 | 49 | 2 | 2 | 0·0 |
| Valentia Obsy. | 59 | 54 | 53 | 0·4 | 4 | 0·0 |
| Roches Point | 60 | 57 | * | Tr | 0·5 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 22nd October | | | | 18h. G.M.T. | | | 01h. G.M.T. 23rd October | | | 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 87 | 10754 | 54655 | 87 | 81654 | 55785 | 8- | 25746 | 54886 | 80 | 81654 | 26484 |
| 115 87 | 81744 | 53587 | | | | 87 | 81734 | 91687 | 52 | 25846 | 57587 |
| 203 8- | 81837 | 24527 | 53 | 02845 | 54587 | 8- | 82843 | 24688 | | | |
| 206 20 | 01853 | 55563 | 8- | 02855 | 55615 | 20 | 01863 | 55683 | 26 | 01864 | 55514 |
| 210 28 | 98631 | 55524 | 44 | 01861 | 54512 | 03 | 01890 | 20413 | 4- | 02853 | 55514 |
| 220 53 | 01854 | 24515 | | | | | | | 80 | 02857 | 23327 |
| 230 87 | 02857 | 53467 | 84 | 02856 | 18486 | 8- | 02856 | 20486 | 8- | 25856 | 00086 |
| 245 98 | 02952 | 22506 | 87 | 02863 | 22325 | 50 | 01861 | 53411 | 54 | 01853 | 55414 |
| 260 57 | 02764 | 53515 | 57 | 05665 | 56725 | 40 | 05664 | 57524 | 54 | 01753 | 24414 |
| 278 57 | 02844 | 25367 | 57 | 02866 | 23427 | 57 | 02853 | 23415 | 5- | 02847 | 22487 |
| 279 57 | 05645 | 55567 | 51 | 02745 | 22428 | 36 | 01864 | 23684 | 84 | 01854 | 55624 |
| 285 27 | 81745 | 26667 | 27 | 02745 | 27486 | | | | | | |
| 288 57 | 02954 | 5327 | 57 | 02864 | 21428 | 54 | 01863 | 17213 | 04 | 01890 | 18314 |
| 575 57 | 22834 | 20467 | 57 | 02865 | 21428 | 53 | 02854 | 22327 | 57 | 02853 | 00058 |
| 301 62 | 62635 | 22468 | 57 | 02745 | 56368 | 03 | 01890 | 24418 | 53 | 02654 | 24426 |
| 321 52 | 05645 | 22427 | 52 | 62546 | 26468 | 57 | 02764 | 23258 | 50 | 05652 | 22227 |
| 299 8- | 03748 | 22228 | 80 | 02746 | 22316 | 54 | 01752 | 22313 | | | |
| 292 67 | 21846 | 24367 | 57 | 02854 | 22327 | 13 | 01854 | 24224 | 53 | 01854 | 22314 |
| 310 | | | -- | 67209 | 16429 | | | | -- | 57109 | 20448 |
| 614 57 | 05645 | 55327 | 57 | 51645 | 55468 | 52 | 54545 | 26258 | 57 | 31656 | 22227 |

| 13h. G.M.T. 22nd October | | | | 18h. G.M.T. | | | 01h. G.M.T. 23rd October | | | 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 |
| 333 52 | 22726 | 21368 | 5- | 02715 | 21468 | 02 | 63648 | 21253 | 5- | 61626 | 00058 |
| 334 -- | 64538 | 22368 | -- | 63547 | 26388 | | | | -- | 51537 | 28288 |
| 340 57 | 61947 | 22368 | 53 | 02845 | 24426 | 5- | 61548 | 30268 | 5- | 02658 | 20128 |
| 136 57 | 05645 | 21468 | 5- | 02747 | 22368 | 5- | 02746 | 21428 | 57 | 51646 | 22358 |
| 386 02 | 64528 | 24468 | 02 | 64528 | 24468 | | | | 62 | 62426 | 24468 |
| 350 5- | 02844 | 22327 | 54 | 02735 | 22327 | 5- | 02647 | 22428 | 51 | 02745 | 22328 |
| 368 5- | 54418 | 55568 | 02 | 32428 | 55528 | 5- | 52528 | 53558 | 5 | 21628 | 55568 |
| 379 57 | 02747 | 22468 | 5- | 02738 | 22428 | 52 | 02726 | 53528 | 5- | 51638 | 22468 |
| 390 | | | 3- | 05648 | 20428 | 30 | 03547 | 20128 | 52 | 52534 | 22458 |
| 382 5- | 22738 | 22468 | 5- | 02848 | 23428 | 57 | 80645 | 56558 | 57 | 52725 | 18458 |
| 438 | | | 8- | 02638 | 24528 | 52 | 02737 | 22628 | 82 | 02748 | 22588 |
| 430 | | | 5- | 02748 | 22468 | 5- | 02736 | 57428 | 3- | 61638 | 57468 |
| 409 -- | 57309 | 22559 | -- | 57109 | 21559 | 5- | 21528 | 22458 | -- | 57109 | 22459 |

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 23rd

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

| Stations | Weather Morning | Weather Afternoon | Weather Night | Atmospheric Pollution. Milligrams of solid impurity per cubic metre. |
|---|---|---|---|---|
| Kew * ... ... | c i r₀ c | c | c c d₀ c | |
| Croydon ... | c c₀ c m g i c₀ | c c m₀ | c m g i d₀ | |
| Greenwich ... | c | c | c r₀ d₀ | Kew 24 hours ended 7h. Max. Time 0·1 7-13h 22nd |
| Camden Square | c | c | * | |
| *Kensington ... | b | b c c | * | |
| Hampstead ... | o | o r | o c | Min. Time −0·1 0-5hrs 23rd |

| 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 ... ... | 61 | 58 | 56 | Tr | Tr | 0·0 | * | * |
| Croydon ... | 61 | 58 | 43 | Tr | 0·1 | 0·0 | * | * |
| Greenwich .. | 62 | 58 | 56 | – | Tr | 0·0 | 82 | 87 |
| Westminster . | 62 | 57 | 56 | · | 0·1 | * | 90 | 95 |
| Regents Park .. | 60 | 58 | 56 | – | 0·3 | * | 82 | 88 |
| Camden Square | 61 | 57 | 56 | 0·3 | 0·3 | * | * | 90 |
| Kensington ... | 62 | 57 | 54 | – | 0·2 | * | 92 | 89 |
| Hampstead | 60 | 55 | 54 | – | 0·5 | * | * | 96 |

SECRET

Page 1 BRITISH SECTION

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

Saturday 24th October 1942

No. 29556

**OBSERVATIONS at 13h. G.M.T. 23rd October**

| 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) | 13·5 | −10 | WSW | 3 | c/d | 63 | 85 | 57 | 8 | 5 | 1 | − | 9 | 10 | 1500 |
| | Croydon | 14·9 | −10 | SWS | 3 | c | 64 | 85 | 59 | 7 | 5 | − | − | 10 | 10 | 1400 |
| | S. Farnborough | 13·7 | −22 | WSW | 4 | c | 62 | 85 | 57 | 8 | 5 | 7 | − | 9+ | 10 | 1000 |
| | Boscombe Down | 15·1 | −6 | SW | 4 | d.d. | 60 | 92 | 58 | 6 | 5 | − | − | 10 | 10 | 800 |
| | Thorney Island | 15·6 | −8 | WSW | 5 | c | 61 | 92 | 59 | 7 | 5 | − | − | 4-6 | 10 | 450 |
| | Lympne | 15·2 | −6 | WSW | 3 | c | 60 | 97 | 59 | 8 | 5 | − | − | 10 | 10 | 900 |
| | Manston | 14·0 | −6 | SW | 3 | c | 63 | 75 | 56 | 8 | 5 | 7 | − | 9 | 10 | 2100 |
| 2 | Shoeburyness | 14·4 | −6 | SW | 3 | c | 63 | 85 | 57 | 8 | 5 | − | − | 9+ | 9+ | 4000 |
| | Felixstowe | 12·5 | −10 | SWS | 4 | c | 63 | 85 | 57 | 7 | 5 | − | − | 9+ | 10 | 2000 |
| | Gorleston | 12·0 | −8 | SSW | 1 | o | 54 | 92 | 52 | 6 | 5 | − | − | 10 | 10 | 800 |
| | Mildenhall | 11·2 | −14 | SWW | 4 | c/d | 62 | 85 | 58 | 7 | 5 | − | − | 9 | 10 | 800 |
| | Cranwell | 09·5 | −22 | SW | 3 | c/d | 57 | 97 | 57 | 5 | 5 | 2 | − | 7-8 | 10 | 1000 |
| 3 | Birmingham | 09·9 | −16 | SW | 5 | c-bc | 61 | 85 | 57 | 8 | 8 | 3 | − | 4-6 | 7-8 | 1500 |
| | Upper Heyford | 12·1 | −12 | WSW | 4 | c | 61 | 85 | 56 | 8 | 5 | − | − | 10 | 10 | 800 |
| 4 | Ross-on-Wye | 11·7 | −12 | SWW | 4 | c | 61 | 85 | 57 | 7 | 5 | − | − | 10 | 10 | 1500 |
| 5 | Hartland Point | 12·5 | −16 | WSW | 6 | id | 58 | 97 | 58 | 5 | 5 | − | − | 10 | 10 | 800 |
| | Bristol | 14·2 | −12 | WS | 4 | id. | 61 | 92 | 59 | 7 | 6 | 2 | − | 7-8 | 10 | 1000 |
| | Portland Bill | 15·5 | −18 | WSW | 5 | o | 59 | 92 | 58 | 7 | 5 | − | − | 10 | 10 | 2500 |
| | Plymouth | 16·6 | −14 | SWW | 6 | o/d | 58 | 97 | 58 | 6 | 5 | − | − | 10 | 10 | 600 |
| | The Lizard | 17·8 | −12 | WSW | 6 | o | 58 | 97 | 58 | 7 | 5 | − | − | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 16·0 | −22 | SW | 5 | r | 58 | 97 | 58 | 6 | 5 | − | − | 10 | 10 | 600 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 11·7 | −12 | WS | 7 | cjf | 57 | 97 | 56 | 6 | 8 | − | − | 10 | 10 | 1000 |
| 7 | Holyhead (Valley) | 08·5 | −20 | NNW | 1 | d.d. | 54 | 97 | 54 | 5 | − | 2 | − | 10 | 10 | 300 |
| | Chester (Sealand) | 08·7 | −22 | SE | 2 | d.d. | 56 | 97 | 54 | 4 | 5 | − | − | 10 | 10 | 1000 |
| 8 | Manchester | 09·2 | −20 | SE | 1 | d.d. | 53 | 97 | 53 | 5 | 6 | 2 | − | 4-6 | 10 | 800 |
| 10 | Spurn Head | 10·0 | −16 | SSW | 4 | z. | 55 | 92 | 53 | 6 | 5 | 2 | − | 7-8 | 10 | 1800 |
| | Catterick | 08·2 | −14 | W | 1 | c | 55 | 65 | 43 | 8 | 4 | 2 | − | 7-8 | 9+ | 2500 |
| | Tynemouth | 07·9 | −6 | SW | 3 | z. | 54 | 65 | 41 | 6 | 8 | − | − | 9+ | 9+ | 2500 |
| 11 | St. Abbs Head | 05·2 | −4 | SW | 4 | c | 53 | 65 | 43 | 8 | 5 | 4 | − | 7-8 | 9+ | 2500 |
| | Leuchars | 03·7 | −4 | WSW | 4 | c | 54 | 75 | 47 | 8 | 8 | 6 | 6 | 7-8 | 9 | 3900 |
| 12 | Renfrew (Abbots I.) | 05·3 | −12 | SWW | 4 | c | 54 | 65 | 44 | 8 | 8 | 7 | − | 7-8 | 9 | 1800 |
| | Eskdalemuir | 05·8 | −14 | SWS | 4 | c-bc | 52 | 75 | 43 | 8 | 8 | 7 | − | 4-6 | 7-8 | 2200 |
| | Point of Ayre | 07·8 | −16 | WN | 4 | c | 54 | 85 | 48 | 8 | 5 | 2 | − | 7-8 | 10 | 5000 |
| 13A | Tiree | 03·6 | −14 | WSW | 4 | pr | 54 | 75 | 45 | 9 | 3 | 6 | 3 | 4-6 | 4-6 | 3000 |
| 13B | Stornoway | 99·7 | −8 | SW | 5 | pr | 51 | 85 | 47 | 8 | 2 | 6 | − | 4-6 | 7-8 | 2500 |
| 15 | Dalwhinnie | 02·9 | −2 | WSW | 3 | c-bc | 45 | 85 | 40 | 8 | 5 | − | − | 7-8 | 7-8 | 2500 |
| | Aberdeen | 02·6 | −6 | WNW | 3 | c-bc | 55 | 55 | 39 | 8 | 7 | − | 2 | 7-8 | 7-8 | 4000 |
| | Wick | 00·8 | 0 | NWW | 3 | pr | 51 | 85 | 46 | 9 | 9 | − | − | 7-8 | 7-8 | 2500 |
| 16 | Sumburgh | 97·7 | +14 | WNW | 4 | id. | 47 | 85 | 41 | 9 | 5 | − | − | 10 | 10 | 1500 |
| 17 | Blacksod Point | 07·8 | −16 | SWW | 5 | c | 55 | 85 | 51 | 8 | 8 | 3 | − | 4-6 | 9 | 2500 |
| 18 | Malin Head | 05·5 | −14 | WN | 4 | bc | 52 | 85 | 48 | 8 | 8 | − | − | 4-6 | 4-6 | 2500 |
| | Aldergrove | 07·6 | −18 | SW | 2 | c | 52 | 85 | 46 | 8 | 5 | 7 | 8 | 7-8 | 9+ | 3000 |
| 19 | *Birr Castle | 09·7 | −4 | WSW | 1 | c | 53 | 92 | 51 | 7 | 6 | 2 | − | 7-8 | 9+ | 800 |
| 20 | Valentia Obsy. | 11·9 | −8 | SWW | 4 | c/pr | 55 | 97 | 54 | 8 | 5 | − | − | 10 | 10 | 800 |
| | Roches Point | 11·4 | +4 | WNW | 3 | ir | 55 | 97 | 54 | 8 | 6 | 2 | − | 4-6 | 9+ | 1500 |

**OBSERVATIONS at 18h. G.M.T. 23rd October — 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. 23rd (39) | Weather 13h.–18h. 23rd (40) | Weather 18h. 23rd to 1h. 24th (41) | Weather 1h.–7h. 24th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 11·6 | −8 | SW | 4 | ir. | 60 | 85 | 56 | 7 | 5 | − | − | 9+ | 9+ | 800 | 1 | * | cr.id.c | id.r.cir. | cir.r.r | rr.r.r.c |
| Croydon | 15·0 | −6 | SW | 4 | zo | 60 | 92 | 59 | 6 | 5 | 3 | − | 9 | 9+ | 800 | 1 | * | co | cm.id.cm. | cid.ir.ir | cm.wir. |
| S. Farnborough | 12·5 | −10 | SWW | 5 | o/d | 59 | 92 | 57 | 6 | 5 | − | − | 10 | 10 | 800 | 1 | * | cid.cz | cid. | mr.r.r.m. | r.R.ir.m.c |
| Boscombe Down | 13·4 | −6 | SW | 5 | id. | 58 | 97 | 57 | 6 | 5 | 2 | − | 9+ | 10 | 600 | 1 | * | cd.d.c | cid.d.d.cid. | cid.err.m.cr | crrm. |
| Thorney Island | 14·3 | −10 | WSW | 5 | c/d | 60 | 92 | 57 | 7 | 5 | − | − | 7-8 | 10 | 700 | 1 | * | c | c | cir.R | cRrr. |
| Lympne | 14·2 | −2 | SW | 5 | id. | 59 | 97 | 58 | 7 | 5 | − | − | 7-8 | 9+ | 700 | 1 | 5 | cr.d.c | cid. | cid.c | cbd |
| Manston | 12·6 | −4 | SW | 4 | bc | 59 | 85 | 55 | 7 | 5 | 7 | − | 4-6 | 4-6 | 3000 | 1 | * | c | ccir.m. | ir.d. | ir.R |
| Shoeburyness | 13·1 | −4 | SW | 5 | c | 60 | 85 | 56 | 6 | 5 | 7 | − | 7-8 | 9 | 1500 | 1 | * | cm.d.d.c | cir.m.o | cm. | cr.r.m.c |
| Felixstowe | 11·0 | −2 | SSW | 4 | zo | 61 | 85 | 57 | 6 | 5 | − | − | 2-3 | 2-3 | 2000 | 1 | 3 | cir.c | cid.m.bc | m.cid.m.r.m | cr.r.m.crr |
| Gorleston | 09·3 | −6 | WSW | 4 | c-bc | 62 | 85 | 57 | 7 | 5 | 3 | − | 4-6 | 7-8 | 1500 | 1 | 4 | cid.m.o.m. | c | c | or.r. |
| Mildenhall | 09·1 | −10 | SWW | 5 | ir. | 61 | 85 | 55 | 8 | 5 | − | − | 9 | 9 | 2000 | 1 | * | cid. | ccir. | cir.cdrm. | cr.r.rrm. |
| Cranwell | 06·8 | −14 | SWW | 4 | ir. | 59 | 85 | 55 | 6 | 5 | − | − | 4-6 | 10 | 400 | 1 | * | cm.id. | crrir. | cir.m. | cr.r.m.cm. |
| Birmingham | 09·0 | −4 | SW | 4 | c-bc | 57 | 85 | 53 | 8 | 5 | − | − | 7-8 | 7-8 | 1500 | 1 | * | od.ir.c | c | cm.o.o | orrc |
| Upper Heyford | 10·5 | −6 | SW | 4 | c/r | 57 | 85 | 54 | 8 | 5 | 7 | − | 7-8 | 9+ | 1000 | 1 | * | c | cid.ir.c | cr.r.m. | crr ir.c |
| Ross-on-Wye | 10·0 | −4 | WSW | 3 | c | 58 | 85 | 52 | 7 | 5 | 7 | − | 9 | 9+ | 2000 | 1 | * | ccd.c | p.cqpc | rcbccr. | rc |
| Hartland Point | 12·0 | 0 | WSW | 5 | c/r | 56 | 85 | 53 | 7 | 5 | 6 | − | 9 | 9+ | 1000 | 1 | 5 | d.d.p. | oidcr. | errc | rrbccpr |
| Bristol | 12·5 | −8 | W | 3 | c-bc/r | 57 | 92 | 55 | 7 | 5 | − | − | 7-8 | 7-8 | 2500 | 1 | * | cm.d.d.id. | cid.ir | cr.r.m.r.r. | cr.r.ir. |
| Portland Bill | 13·9 | −6 | SW | 5 | o | 59 | 92 | 57 | 7 | 5 | − | − | 10 | 10 | 2500 | 1 | 5 | c | o | c | irc |
| Plymouth | 14·9 | −10 | WSW | 5 | o/d | 57 | 97 | 57 | 6 | 5 | − | − | 10 | 10 | 600 | 1 | 4 | cd.d.m.o | od.id.m. | omrrm. | crr.r.r.m. |
| The Lizard | 15·3 | −8 | W | 5 | df | 58 | 97 | 57 | 3 | 5 | − | − | 10 | 10 | 400 | 1 | 5 | co | oiddf | dfmrr | rreqe |
| Scilly (St. Mary's) | 14·4 | −10 | SWW | 3 | id. | 58 | 97 | 57 | 5 | 5 | − | − | 10 | 10 | 500 | 1 | 4 | cr | cr.ido | oddrr | orrep |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 11·2 | +2 | W | 5 | pr | 55 | 92 | 52 | 7 | 5 | − | − | 9 | 9 | 2000 | 1 | 4 | cid.f.m. | cdr.q | c | cprbcq |
| Holyhead (Valley) | 08·1 | 0 | WSW | 3 | bc | 53 | 97 | 52 | 8 | 8 | 4 | − | 4-6 | 4-6 | 1500 | 1 | 2 | cr.d. | d.r.crd | cprc | cbc |
| Chester (Sealand) | 07·7 | +2 | NW | 2 | c | 53 | 97 | 53 | 6 | 5 | 2 | − | 7-8 | 10 | 800 | 1 | * | cm.iddd | cm.ddr | cir.m. | cm.or.bc |
| Manchester | 07·1 | −10 | SSW | 2 | m/f | 53 | 97 | 53 | 4 | 5 | 2 | − | 7-8 | 10 | 1500 | 1 | * | m.r.r. | d.d.rrF | cm.ir. | cir.bcm. |
| Spurn Head | 06·0 | −14 | SWW | 3 | ir. | 57 | 92 | 55 | 6 | 5 | 2 | − | 7-8 | 10 | 1500 | 1 | 3 | ircm. | ircm. | cm. | cm.o.m.R |
| Catterick | 05·7 | −12 | SW | 2 | c/r | 52 | 85 | 56 | 8 | 5 | 7 | − | 7-8 | 9+ | 2500 | 0 | * | bcc | cir.c | bccpr. | bcpr |
| Tynemouth | 06·2 | −2 | SW | 2 | zo | 53 | 75 | 43 | 5 | 8 | − | − | 9 | 9+ | 1500 | 1 | 3 | bcc | cm. | bcm.ir. | cir. bc |
| St. Abbs Head | 03·3 | −12 | SW | 2 | bc | 50 | 75 | 41 | 7 | 5 | − | − | 4-6 | 4-6 | 3500 | 0 | 3 | bbcc | cprbc | bcr.bc | b |
| Leuchars | 02·2 | −8 | SW | 3 | c-bc | 49 | 92 | 47 | 7 | 4 | − | − | 7-8 | 7-8 | 2500 | 0 | * | bc | cpr.bc | cprm.bc | pr.id.c |
| Renfrew (Abbots I.) | 03·3 | −6 | WS | 2 | pr | 51 | 75 | 45 | 7 | 8 | − | − | 9 | 9 | 2000 | 1 | * | bcc | cbccpr. | cpr.bc | bcPRpr.R |
| Eskdalemuir | 04·4 | −6 | SE | 2 | bc | 45 | 85 | 39 | 8 | 5 | 7 | − | 2-3 | 4-6 | 2200 | 1 | * | pr.bcc | cbc | bccpr. | cpr. |
| Point of Ayre | 05·5 | −6 | WN | 3 | c | 52 | 92 | 50 | 8 | 5 | 3 | − | 4-6 | 9+ | 4000 | 0 | 3 | bcpr.c | c | cprcb | bbccb |
| Tiree | 00·3 | −22 | WSW | 4 | pr | 50 | 75 | 43 | 8 | 3 | 6 | − | 9 | 9+ | 2000 | 1 | 3 | cpr.bcpr | bcc pr | cpr.bc | bccpr.bc |
| Stornoway | 97·9 | −10 | − | 0 | c | 45 | 97 | 45 | 7 | 2 | 6 | − | 7-8 | 9+ | 2500 | 1 | 1 | cpr | cpr | bccpr | cpr |
| Dalwhinnie | 00·8 | −8 | WSW | 3 | bc/pr | 42 | 85 | 40 | 8 | 5 | − | − | 4-6 | 4-6 | 2500 | 1 | * | cpr | cpr | | cir |
| Aberdeen | 00·8 | −10 | WSW | 2 | b-bc | 49 | 75 | 36 | 7 | 4 | 6 | 3 | 1 | 2-3 | 4000 | 1 | 2 | bbcy | cy prbc | bccr | cr.c |
| Wick | 98·9 | −14 | WS | 2 | c-bc | 45 | 92 | 43 | 9 | 8 | − | − | 7-8 | 7-8 | 2000 | 1 | * | cpr. | c | bcc | c |
| Sumburgh | 97·7 | −4 | WN | 3 | c | 46 | 75 | 39 | 8 | 5 | − | − | 9+ | 9+ | 2500 | 1 | 4 | cpr. id. | cid.c | cbcc | ccpr. |
| Blacksod Point | 04·6 | −14 | WSW | 5 | PR | 50 | 85 | 46 | 8 | 9 | − | − | 7-8 | 7-8 | 1500 | 1 | 4 | c | pr | pr | pr |
| Malin Head | 02·1 | −18 | SW | 4 | rr | 49 | 92 | 47 | 8 | 9 | 2 | − | 4-6 | 10 | 1500 | 1 | 3 | pr | pr | pr | pr |
| Aldergrove | 04·6 | −16 | SW | 1 | c | 50 | 85 | 46 | 8 | 5 | 4 | − | 9 | 9 | 3500 | 1 | * | cid.c | cbcc | bcb | bbc |
| *Birr Castle | 07·0 | −18 | WSW | 2 | pr c-bc | 51 | 92 | 50 | 7 | 8 | − | − | 7-8 | 7-8 | 800 | 1 | 4 | d | pr | * | pr |
| Valentia Obsy. | 09·7 | −12 | WS | 4 | c-bc/pr | 53 | 85 | 49 | 8 | 8 | − | − | 7-8 | 7-8 | 2500 | 1 | 4 | r | pr | pr | pr |
| Roches Point | 09·9 | −14 | WS | 4 | pr | 54 | 92 | 52 | 8 | 3 | 3 | − | 4-6 | 7-8 | 1500 | 1 | 4 | r | pr | pr | bc |

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

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales | Moderate Westerly wind, fresh at times on western coasts, veering towards Northwest; bright periods; some showers more especially in the Western districts; rather cold. |
| 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland | Moderate to fresh West to Northwest wind, strong and rather squally locally at times in the West; showery, with heavy showers locally and a chance of hail and thunder in a few places; some brighter intervals especially in the East; cold. |
| 14 Mid Scotland; 15 N.E. Scotland | Light variable winds, finally Northwest to North light to moderate; bright intervals; showers; rather cold or cold. |
| 16 Orkneys and Shetlands | As 14-15. |
| 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland | Moderate to fresh Westerly winds, veering Northwest; showers and bright periods; rather cold. |

## GENERAL INFERENCE

A rather deep depression off Northwest Scotland will move east-southeast across Northern Scotland. A rather cold showery type of weather will prevail generally, but with considerable bright periods in the south eastern half of the country.

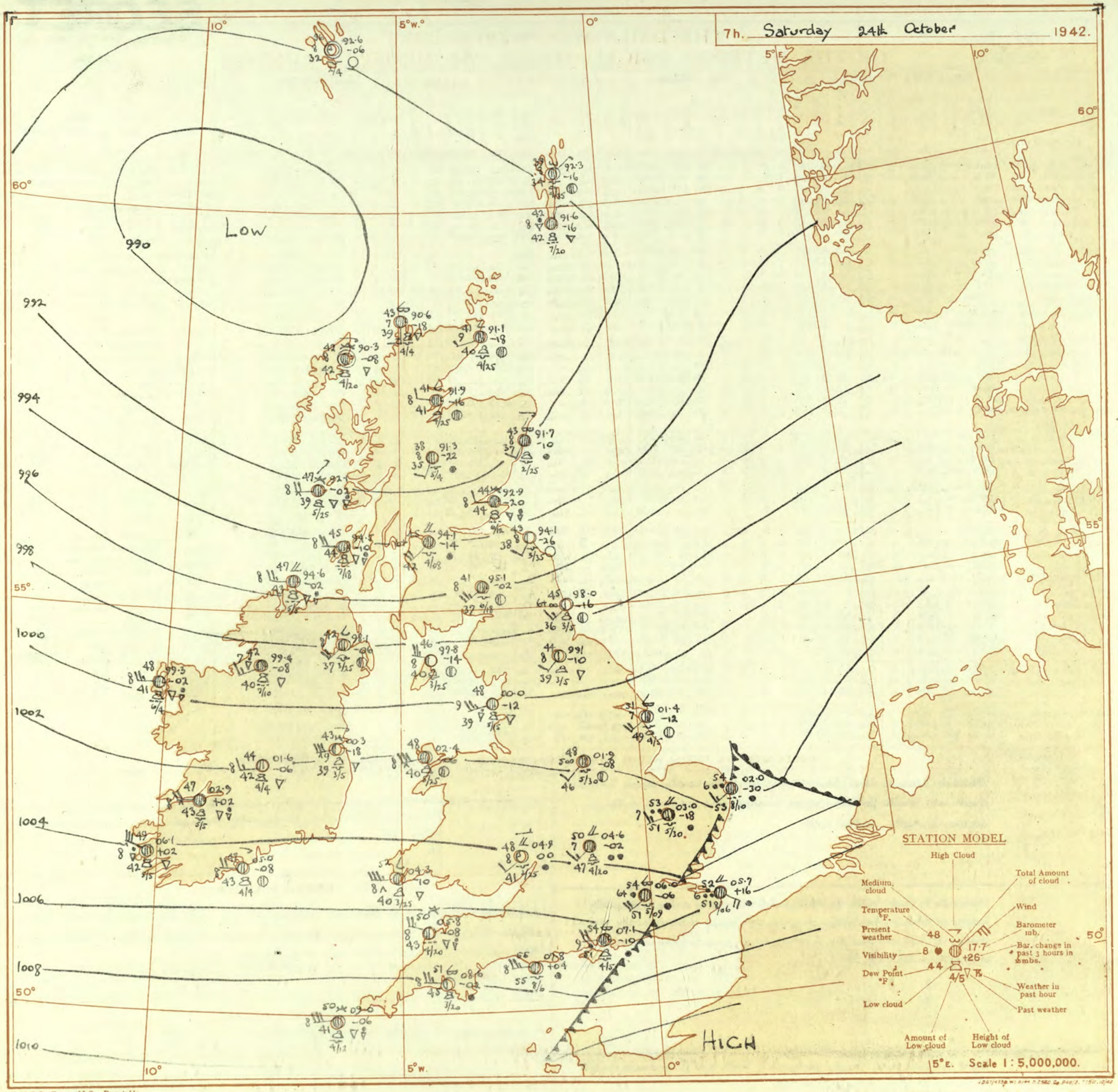
## FURTHER OUTLOOK

A showery type of weather in most districts.

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. Saturday 24th October 1942.




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

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

**Explanation of Frontal Lines shown on Charts**

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

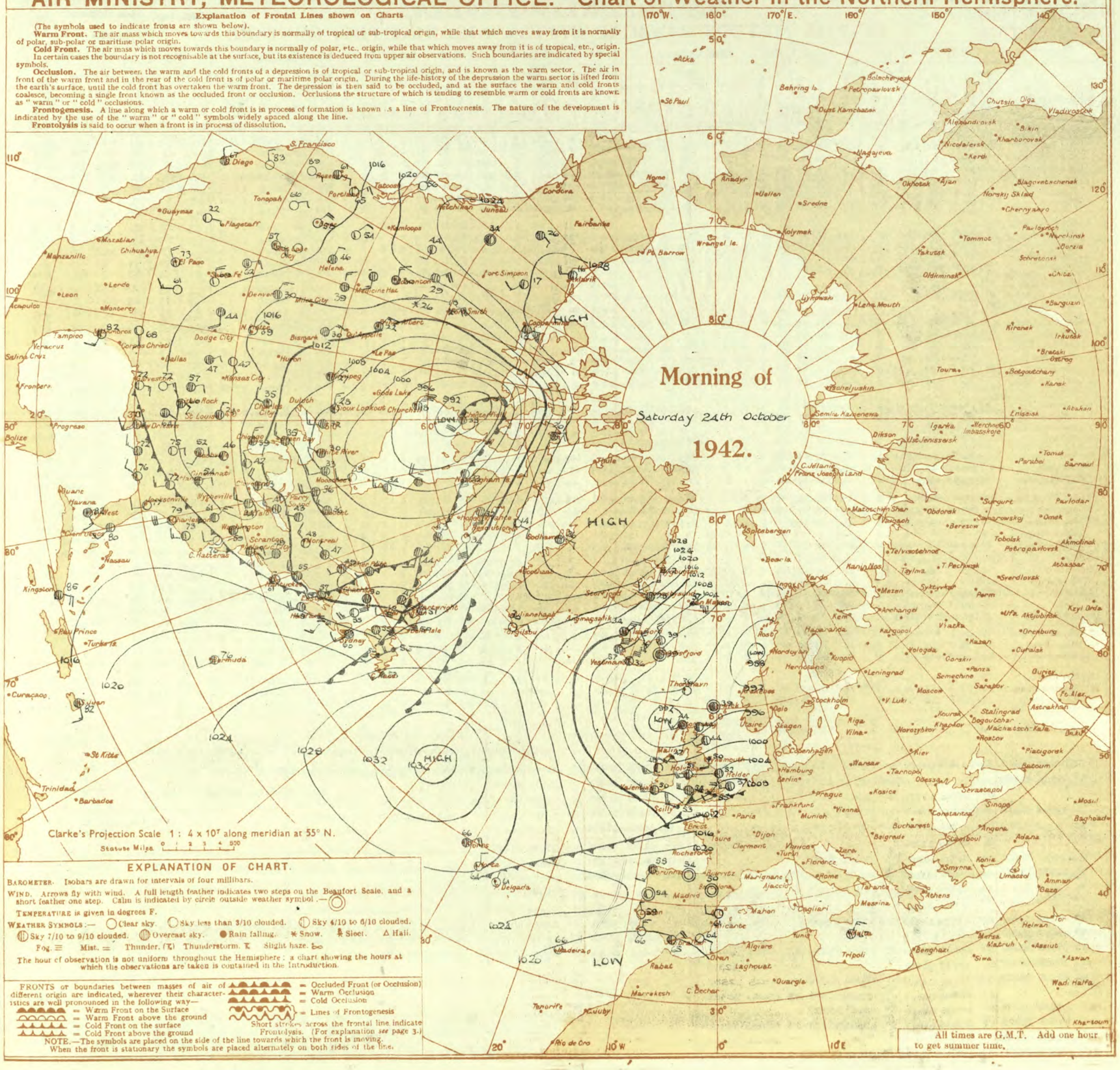
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

BRITISH SECTION

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

Saturday 24th October 1942

No. 29556

## OBSERVATIONS at 1 hr. G.M.T. 24th October

| 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 | * | * | * | * | * | 55 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 10.0 | -20 | WSW | 2 | ir | 55 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 1000 |
| | S. Farnborough | 226 | 09.0 | -22 | W'S | 3 | $r_0 r_0$ | 54 | 85 | 53 | 5 | 5 | 2 | - | 9+ | 10 | 1000 |
| | Boscombe Down | 417 | 10.0 | -24 | SSW | 3 | $ir_0$ | 53 | 97 | 53 | 7 | 6 | 2 | - | 7-8 | 10 | 700 |
| | Thorney Island | 10 | 11.0 | -18 | SW'W | 6 | RR | 58 | 92 | 57 | 6 | 5 | - | - | 10 | 10 | 2300 |
| | Lympne | 283 | 11.4 | -14 | WSW | 4 | c | 58 | 85 | 54 | 8 | 5 | - | - | 9+ | 9+ | 900 |
| | Manston | 154 | 09.9 | -18 | SW'S | 4 | c/d | 58 | 85 | 54 | 7 | 3 | 6 | - | 9 | 9+ | 700 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 08.8 | -12 | SW | 3 | $r_0 r_0$ | 55 | 92 | 54 | 6 | 5 | 2 | - | 7-8 | 10 | 2500 |
| | Gorleston | 5 | 09.4 | -8 | W'S | 3 | c | 57 | 85 | 51 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| | Mildenhall | 15 | 07.9 | -10 | SW'S | 3 | dr | 55 | 92 | 53 | 6 | 5 | - | - | 10 | 10 | 2000 |
| | Cranwell | 203 | 05.8 | -18 | SW'S | 4 | c | 53 | 85 | 50 | 7 | - | 7 | - | 0 | 10 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 08.4 | -20 | SW | 3 | $r_0 r_0$ | 53 | 97 | 52 | 6 | 5 | - | - | 7-8 | 10 | 600 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 06.6 | -36 | W'N | 6 | rr | 54 | 97 | 53 | 6 | 6 | 2 | - | 9+ | 10 | 1500 |
| | Bristol | 209 | 08.7 | -28 | SW'W | 4 | $r_0 r_0$ | 54 | 97 | 52 | 8 | 6 | 2 | - | 1 | 10 | 1500 |
| | Portland Bill | 32 | 10.0 | -28 | SW | 5 | c | 57 | 92 | 55 | 8 | 2 | 4 | 1 | 7-8 | 10 | 4000 |
| | Plymouth | 82 | 09.6 | -34 | W | 4 | rr | 54 | 97 | 55 | 5 | 5 | - | - | 10 | 10 | 100 |
| | The Lizard | 240 | 10.4 | -22 | W'N | 5 | $r_0 r_0$ | 54 | 97 | 54 | 7 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 10.7 | -14 | W | 5 | $r_0 r_0$ | 53 | 92 | 51 | 7 | 5 | - | - | 10 | 10 | 450 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 06.6 | -6 | W'N | 6 | c | 54 | 92 | 52 | 7 | 8 | - | - | 10 | 10 | 2000 |
| 7 | Holyhead (Valley) | 32 | 04.7 | -14 | WSW | 5 | c | 51 | 75 | 44 | 8 | - | 3 | 2 | 0 | 9 | - |
| | Chester (Sealand) | 16 | 05.1 | -22 | SSW | 1 | $z_0$ | 52 | 85 | 48 | 6 | 5 | 1 | - | 7-8 | 10 | 2000 |
| 8 | Manchester | 235 | 05.1 | -18 | SSW | 3 | $ir_0$ | 51 | 97 | 49 | 6 | 5 | 7 | - | 4-6 | 10 | 1500 |
| 10 | Spurn Head | 29 | 05.3 | -12 | SSW | 4 | $z_0$ | 52 | 85 | 49 | 6 | 5 | 1 | - | 7-8 | 10 | 1500 |
| | Catterick | 175 | 02.6 | -22 | SW | 3 | c/pr | 50 | 75 | 43 | 7 | 2 | 7 | - | 2-3 | 9 | 2500 |
| | Tynemouth | 108 | 01.9 | -20 | S | 4 | $ir_0$ | 50 | 85 | 46 | 6 | - | 2 | - | 9+ | 9+ | 1500 |
| 11 | St. Abbs Head | 280 | 99.1 | -20 | SW | 3 | bc | 46 | 92 | 44 | 7 | 5 | - | - | 4-6 | 4-6 | 4000 |
| | Leuchars | 36 | 97.0 | -24 | SSW | 1 | b-bc | 43 | 97 | 43 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 |
| 12 | Renfrew (Abbots I.) | 19 | 99.1 | -16 | SW | 2 | bc | 47 | 85 | 42 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 01.6 | -8 | W'N | 5 | b-bc | 49 | 85 | 45 | 9 | 2 | - | 8 | 2-3 | 2-3 | 2500 |
| 13A | Tiree | 22 | 95.4 | -26 | SW | 3 | bc/pr | 46 | 75 | 39 | 8 | 3 | 4 | 1 | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 80 | 93.7 | -26 | SW | 2 | pr | 44 | 97 | 44 | 7 | 8 | 7 | - | 7-8 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 96.8 | -22 | WSW | 2 | c-bc/r | 44 | 92 | 43 | 9 | 5 | 2 | - | 2-3 | 7-8 | 3000 |
| | Wick | 114 | 95.5 | -16 | SSW | 1 | c | 44 | 75 | 37 | 9 | 8 | 3 | - | 7-8 | 9 | 3000 |
| 16 | Sumburgh | 19 | 95.4 | -12 | ENE | 1 | c | 44 | 92 | 41 | 8 | 5 | - | - | 9+ | 9+ | 2000 |
| 17 | Blacksod Point | 18 | 01.3 | -14 | WSW | 5 | bc/pr | 48 | 75 | 41 | 8 | 9 | - | - | 4-6 | 4-6 | 2500 |
| 18 | Malin Head | 84 | 96.5 | -30 | SW | 4 | pr | 47 | 85 | 43 | 8 | 9 | 2 | - | 7-8 | 10 | 2500 |
| | Aldergrove | 268 | 00.9 | -16 | SSW | 3 | b | 45 | 85 | 41 | 8 | 2 | 4 | - | Tr | 1 | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 07.5 | -12 | W'S | 5 | b-bc/pr | 50 | 75 | 43 | 7 | 3 | - | - | 2-3 | 2-3 | 2500 |
| | Roches Point | 22 | 07.5 | -10 | W'S | 3 | bc | 50 | 92 | 48 | 8 | 3 | - | 5 | 1 | 4-6 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 24th October

| 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) | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 05.3 | -6 | W'N | 3 | c/r | 53 | 85 | 49 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 | 1 | * |
| | Croydon | 06.0 | -6 | SW | 4 | $ir_0$ | 54 | 85 | 51 | 6 | 5 | 7 | - | 7-8 | 10 | 900 | 1 | * |
| | S. Farnborough | 05.5 | -6 | W'S | 3 | c/r | 51 | 92 | 49 | 9 | 5 | - | - | 10 | 10 | 2200 | 1 | * |
| | Boscombe Down | 07.4 | +10 | SW'W | 3 | pr | 49 | 97 | 47 | 8 | 8 | 7 | - | 4-6 | 7-8 | 1800 | 0 | * |
| | Thorney Island | 07.1 | -10 | W | 4 | $ir_0$ | 54 | 92 | 51 | 9 | 8 | 7 | - | 4-6 | 9 | 2500 | 1 | * |
| | Lympne | 06.4 | -18 | SSW | 4 | $r_0 r_0$ | 52 | 92 | 51 | 8 | - | 2 | - | 10 | 10 | 2500 | 1 | §5 |
| | Manston | 05.7 | +16 | ESE | 4 | rr | 52 | 97 | 51 | 6 | - | 2 | - | 10 | 10 | 600 | 1 | * |
| 2 | Shoeburyness | 05.8 | -12 | SW | 3 | c/r | 55 | 85 | 51 | 8 | 5 | 2 | - | 7-8 | 9+ | 1300 | 1 | * |
| | Felixstowe | 03.6 | -22 | SSW | 4 | $r_0 r_0$ | 56 | 92 | 54 | 7 | - | 2 | - | 10 | 10 | 2500 | 1 | 3 |
| | Gorleston | 02.0 | -30 | SW'W | 3 | $r_0 r_0$ | 54 | 97 | 53 | 6 | 6 | - | - | 10 | 10 | 1000 | 1 | 3 |
| | Mildenhall | 03.0 | -18 | W'S | 3 | $r_0 r_0$ | 53 | 92 | 51 | 7 | 5 | 2 | - | 7-8 | 10 | 3000 | 1 | * |
| | Cranwell | 02.2 | -8 | WSW | 4 | c-bc | 50 | 92 | 48 | 7 | 5 | 7 | - | 2-3 | 7-8 | 4000 | 1 | * |
| 3 | Birmingham | 03.3 | -6 | WSW | 3 | bc | 47 | 92 | 45 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | * |
| | Upper Heyford | 04.6 | -2 | SW'W | 3 | c/r | 50 | 92 | 47 | 7 | 8 | 2 | - | 4-6 | 9 | 2000 | 1 | * |
| 4 | Ross-on-Wye | 04.9 | 0 | SW'W | 2 | b | 48 | 75 | 41 | 8 | 5 | 2 | 8 | 1 | 1 | 2500 | 1 | * |
| 5 | Hartland Point | 05.8 | -8 | WNW | 5 | b/pr | 50 | 85 | 43 | 8 | 6 | 6 | - | 4-6 | 4-6 | 2000 | 1 | 5 |
| | Bristol | 06.9 | +2 | WSW | 3 | bc/r | 49 | 85 | 45 | 7 | 8 | 3 | 3 | 4-6 | 4-6 | 1500 | 1 | * |
| | Portland Bill | 07.8 | +4 | W | 5 | c | 55 | 92 | 55 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 5 |
| | Plymouth | 08.6 | -2 | W'N | 5 | b-bc | 51 | 85 | 45 | 8 | 3 | 7 | - | 2-3 | 2-3 | 2000 | 1 | 4 |
| | The Lizard | 08.9 | -6 | WNW | 6 | c-bc | 51 | 75 | 45 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 1 | 5 |
| | Scilly (St. Mary's) | 09.0 | -6 | W | 6 | c-bc/r | 50 | 75 | 41 | 8 | 8 | 6 | - | 4-6 | 7-8 | 1200 | 1 | 4 |
| | Guernsey | | | | | | | | | | | | | | | | | |
| 6 | Pembroke | 04.3 | -10 | W'N | 7 | bcq | 52 | 65 | 40 | 8 | 2 | 4 | - | 2-3 | 4-6 | 2500 | 0 | 4 |
| 7 | Holyhead (Valley) | 02.4 | -6 | W'S | 6 | c-bc | 48 | 75 | 40 | 8 | 2 | - | 8 | 4-6 | 7-8 | 2500 | 1 | 4 |
| | Chester (Sealand) | 02.0 | -12 | W'N | 1 | b-bc | 45 | 85 | 40 | 8 | 2 | - | - | 2-3 | 2-3 | 3000 | 1 | * |
| 8 | Manchester | 02.5 | -2 | S | 3 | b-bc | 44 | 97 | 43 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| 10 | Spurn Head | 01.4 | -12 | SW'W | 4 | c-bc | 51 | 92 | 49 | 7 | 7 | 7 | - | 4-6 | 7-8 | 2500 | 1 | 4 |
| | Catterick | 99.1 | -10 | SW | 2 | b-bc | 44 | 85 | 39 | 6 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| | Tynemouth | 98.0 | -16 | SW | 3 | $z_0$ | 45 | 75 | 36 | 6 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| 11 | St. Abbs Head | 94.1 | -26 | SSW | 3 | b-bc | 43 | 85 | 38 | 8 | 5 | - | - | 2-3 | 2-3 | 3500 | 0 | 3 |
| | Leuchars | 92.9 | -20 | W | 2 | c/pr | 44 | 97 | 44 | 8 | 9 | 6 | - | 9 | 9+ | 1200 | 1 | * |
| 12 | Renfrew (Abbots I.) | 94.1 | -14 | SW'W | 4 | iR | 45 | 85 | 42 | 6 | 5 | 2 | - | 4-6 | 10 | 800 | 1 | * |
| | Eskdalemuir | 95.1 | -2 | SW | 5 | c | 41 | 85 | 37 | 8 | 5 | - | - | 9 | 9 | 1800 | 1 | * |
| | Point of Ayre | 97.8 | -14 | W'N | 5 | b-bc | 46 | 85 | 40 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 | 1 | 4 |
| 13A | Tiree | 92.1 | -2 | W | 4 | c-bc/r | 47 | 75 | 39 | 8 | 3 | 6 | 4 | 7-8 | 7-8 | 2500 | 1 | 3 |
| 13B | Stornoway | 90.3 | -8 | - | 0 | c-bc | 42 | 97 | 42 | 8 | 3 | 6 | 3 | 4-6 | 7-8 | 2000 | 1 | 1 |
| 15 | Dalwhinnie | 91.3 | -22 | SSW | 2 | c-bc | 38 | 92 | 35 | 8 | 5 | - | - | 7-8 | 7-8 | 1500 | 1 | * |
| | Aberdeen † | 91.7 | -10 | SW'S | 2 | c | 43 | [illegible] | 37 | 8 | 8 | 7 | 3 | 1 | 9+ | 2500 | 1 | 2 |
| | Wick | 91.1 | -18 | WSW | 1 | c-bc | 41 | 92 | 40 | 9 | 8 | 1 | - | 4-6 | 7-8 | 2500 | 1 | * |
| 16 | Sumburgh | 91.6 | -16 | NNE | 2 | pr | 42 | 97 | 42 | 8 | 9 | - | - | 9+ | 9+ | 2000 | 1 | 3 |
| 17 | Blacksod Point | 99.3 | -2 | W | 5 | c/pr | 48 | 75 | 41 | 8 | 9 | - | - | 9 | 9 | 1500 | 1 | 4 |
| 18 | Malin Head | 94.6 | -2 | W | 5 | c/pr | 47 | 85 | 43 | 8 | 9 | 2 | - | 7-8 | 9+ | 2500 | 1 | 3 |
| | Aldergrove | 98.1 | -6 | SW | 4 | bc | 42 | 85 | 37 | 8 | 4 | 4 | - | 2-3 | 4-6 | 2500 | 1 | * |
| 19 | Birr Castle | 01.6 | -6 | WSW | 3 | bc | 44 | 92 | 42 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 06.1 | +2 | WNW | 6 | pr | 49 | 75 | 42 | 8 | 3 | - | - | 7-8 | 7-8 | 2500 | 1 | 5 |
| | Roches Point | 05.0 | -8 | W | 4 | bc | 47 | 85 | 43 | 8 | 3 | - | 3 | 4-6 | 4-6 | 1500 | 1 | 4 |

## PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h–18h °F. (33) | Min. Night 18h–7h °F (34) | Min. on Grass °F. (35) | Rainfall Day 7h–18h mm. (36) | Rainfall Night 18h–7h mm. (37) | Sunshine 23rd Hrs. (38) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 63 | 53 | 51 | 0.1 | 9 | 0.1 |
| | Croydon | 66 | 53 | 51 | Tr | 10 | 0.5 |
| | S. Farnborough | 63 | 51 | 49 | 0.1 | 14 | 0.8 |
| | Boscombe Down | 62 | 47 | 46 | 0.3 | 14 | 0.4 |
| | Thorney Island | 62 | 54 | 51 | Tr | 3 | * |
| | Lympne | 62 | 52 | 51 | Tr | 6 | 0.0 |
| | Manston | 63 | 52 | 51 | Tr | 3 | |
| 2 | Shoeburyness | 65 | 54 | 52 | 0.3 | 2 | 0.4 |
| | Felixstowe | 65 | 54 | 53 | Tr | 6 | 0.8 |
| | Gorleston | 62 | 53 | 52 | 0.2 | 4 | 0.2 |
| | Mildenhall | 63 | 52 | 51 | Tr | 11 | 0.1 |
| | Cranwell | 61 | 48 | 47 | 2 | 2 | 0.0 |
| 3 | Birmingham | 62 | 47 | 44 | 0.5 | 5 | 0.6 |
| | Upper Heyford | 61 | 49 | 48 | 0.1 | 9 | * |
| 4 | Ross-on-Wye | 62 | 48 | 43 | 0.2 | 4 | 0.3 |
| 5 | Hartland Point | 58 | 49 | 46 | 2 | 12 | 0.1 |
| | Bristol | 61 | 49 | 45 | 4 | 9 | 0.1 |
| | Portland Bill | 59 | 53 | * | - | 3 | * |
| | Plymouth | 59 | 50 | 46 | 1 | 17 | 0.0 |
| | The Lizard | 58 | 50 | * | 1 | 13 | 0.3 |
| | Scilly (St. Mary's) | 59 | 50 | * | 0.5 | 12 | 0.0 |
| | Guernsey | | | | | | |
| 6 | Pembroke | 58 | 51 | * | 0.3 | 6 | 0.6 |
| 7 | Holyhead (Valley) | 55 | 47 | 44 | 4 | 1 | * |
| | Chester (Sealand) | 61 | 45 | 33 | 4 | 0.5 | 0.0 |
| 8 | Manchester | 54 | 43 | 39 | 3 | 3 | * |
| 10 | Spurn Head | 57 | 50 | * | 0.5 | 2 | 0.0 |
| | Catterick | 55 | 44 | 37 | 0.2 | 1 | 1.2 |
| | Tynemouth | 55 | 41 | 39 | - | 0.2 | * |
| 11 | St. Abbs Head | 54 | 39 | * | Tr | 2 | * |
| | Leuchars | 55 | 41 | 33 | Tr | 1 | 4.2 |
| 12 | Renfrew (Abbots I.) | 55 | 44 | 40 | 0.1 | 5 | 4.0 |
| | Eskdalemuir | 53 | 40 | 37 | Tr | 0.1 | 1.8 |
| | Point of Ayre | 55 | 46 | * | Tr | 0.6 | 0.1 |
| 13A | Tiree | 54 | 43 | * | 3 | 2 | 2.6 |
| 13B | Stornoway | 53 | 42 | * | 2 | 4 | 4.2 |
| 15 | Dalwhinnie | 47 | 37 | 33 | 3 | 5 | 0.8 |
| | Aberdeen † | 55 | 42 | 38 | 0.2 | 3 | 5.1 |
| | Wick | 51 | 41 | 38 | 3 | 0.0 | * |
| 16 | Sumburgh | 48 | 42 | 38 | Tr | 0.1 | 0.0 |
| 17 | Blacksod Point | 55 | 44 | * | 1 | 3 | * |
| 18 | Malin Head | 55 | 44 | | 2 | 3 | 1.6 |
| | Aldergrove | 54 | 41 | 37 | 0.2 | 1 | 1.5 |
| 19 | Birr Castle | 55 | 42 | 38 | 4 | 2 | 0.6 |
| 20 | Valentia Obsy. | 57 | 46 | 43 | 2 | 3 | 0.5 |
| | Roches Point | 58 | 46 | * | 1 | Tr | * |

Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 23rd October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 24th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 53 | 02855 | 24415 | 53 | 01844 | 00085 | 3- | 81755 | 18215 | 52 | 61763 | 27186 |
| 115 | 87 | 81734 | 57587 | | | | 87 | 02844 | 16287 | 87 | 02744 | 16387 |
| 203 | | | | 8- | 82846 | 22526 | 8- | 02847 | 20427 | | | |
| 206 | 2- | 10855 | 26415 | 84 | 25863 | 22283 | 83 | 25854 | 24287 | 14 | 02854 | 25227 |
| 210 | 26 | 01963 | 57514 | 84 | 01963 | 20183 | 86 | 02943 | 19287 | 41 | 02953 | 20218 |
| 220 | | | | 80 | 81746 | 23286 | [illegible] | | | 80 | 25746 | 26386 |
| 230 | 36 | 81955 | 20485 | 96 | 25856 | 18387 | 36 | 25955 | 18387 | | | |
| 245 | 5- | 02957 | 22327 | 46 | 01852 | 20282 | 83 | 01963 | 18383 | 82 | 25857 | 23187 |
| 260 | 54 | 02854 | 23316 | 40 | 25754 | 20284 | 20 | 01853 | 20283 | 5- | 61645 | 53465 |
| 278 | 57 | 02855 | 23387 | 57 | 02866 | 20227 | 26 | 01852 | 22484 | 86 | 01844 | 55515 |
| 279 | 57 | 02755 | 22586 | 83 | 02754 | 23325 | 26 | 25853 | 55583 | 26 | 01854 | 55584 |
| 285 | 67 | 02855 | 24427 | | | | | | | | | |
| 288 | 57 | 02855 | 18365 | 52 | 61855 | 20268 | 57 | 02855 | 17426 | 24 | 01852 | 16413 |
| 575 | 20 | 02853 | 22255 | 8- | 25857 | 20387 | | | | 9- | 81747 | 22387 |
| 301 | 62 | 55415 | 26268 | 53 | 22746 | 24267 | 87 | 02854 | 24385 | 30 | 81945 | 22585 |
| 321 | | | | 5- | 63368 | 00068 | 07 | 22696 | 16368 | 33 | 05654 | 20365 |
| 299 | 8- | 05657 | 20217 | 8- | 08448 | 20168 | 5- | 05657 | 22327 | | | |
| 292 | 52 | 02865 | 20228 | 52 | 22664 | 00067 | 5- | 62548 | 22228 | 23 | 02854 | 22284 |
| 310 | -- | 46209 | 20449 | | | | | | | -- | 01624 | 24414 |
| 614 | 5- | 56348 | 18158 | 53 | 05664 | 22385 | 57 | 05655 | 20228 | | | |

| III | 13h. G.M.T. 23rd October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 24th October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 5- | 21828 | 55458 | 87 | 02855 | 22356 | 8- | 02858 | 20328 | 2- | 01854 | 53314 |
| 334 | -- | 54337 | 26258 | -- | 60745 | 24368 | | | | | | |
| 340 | 5- | 21945 | 22358 | 52 | 02755 | 55527 | 52 | 51756 | 20358 | 84 | 01843 | 23314 |
| 136 | 5- | 61628 | 20158 | 36 | 81755 | 20587 | 51 | 62655 | 20268 | 57 | 62735 | 19368 |
| 336 | 57 | 02756 | 24628 | 52 | 22646 | 24668 | | | | 50 | 01754 | 24415 |
| 350 | 5- | 02748 | 22458 | 54 | 22654 | 22457 | | | | 57 | 22764 | 22266 |
| 368 | 62 | 51617 | 55558 | 5- | 02845 | 22555 | | | | | | |
| 379 | 5- | 51848 | 55558 | 5- | 51726 | 22566 | 5- | 22638 | 20468 | | | |
| 390 | | | | 50 | 5547 | 20438 | 62 | 62548 | 21368 | 62 | 62636 | 21468 |
| 382 | 5- | 21837 | 22457 | 5- | 21846 | 55457 | 02 | 63743 | 21268 | 57 | 02864 | 22325 |
| 438 | 8- | 51638 | 22528 | 5- | 03638 | 55758 | 53 | 02644 | 22716 | 53 | 03644 | 22716 |
| 430 | 5- | 02746 | 22328 | 5- | 51628 | 53368 | 5- | 61646 | 55528 | 5- | 03744 | 20567 |
| 409 | 5- | 05618 | 21658 | 5- | 1595- | 62518 | 5- | 62408 | 24468 | 80 | 02745 | 24625 |

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.

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 24th October

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* | $cr_0 id_0 c$ | $idor_0 cir_0 c$ | $ir_0 rr_0 c$ |
| Croydon | co | $cm_0 idcm_0$ | cidoirir |
| Greenwich | c | $cr_0 c^0$ | $crR_0 Rrc$ |
| Camden Square | c | c | * |
| *Kensington | c | c | * |
| Hampstead | of | bc | orbc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. Time 0.1 14–15h 23rd; Min. Time <0.1 0–6h. 24th

| 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 | 63 | 53 | 51 | 0.1 | 9 | 0.1 | * | * |
| Croydon | 66 | 53 | 51 | Tr | 10 | 0.5 | * | * |
| Greenwich | 64 | 51 | 49 | Tr | 13.2 | 0.3 | 85 | 78 |
| Westminster | 65 | 50 | 45 | | 11.2 | * | 91 | 88 |
| Regents Park | 64 | 52 | 50 | - | 11.5 | * | 83 | 76 |
| Camden Square | 63 | 52 | 50 | - | - | 11.9 | * | 81 |
| Kensington | 64 | 52 | 47 | - | 11.2 | * | 94 | 84 |
| Hampstead | 62 | 47 | 45 | | 0.1 | 12.1 | * | 85 |

SECRET

Page 1 BRITISH SECTION

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

Sunday 25th October 1942

No. 29557

## OBSERVATIONS at 13h. G.M.T. 24th October

| 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) | 04·4 | -10 | WSW | 5 | c-bc | 55 | 55 | 48 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| | Croydon | 05·9 | -10 | WSW | 4 | c-bc | 56 | 55 | 41 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| | S. Farnborough | 05·2 | -12 | SWW | 5 | c-bc | 55 | 55 | 37 | 8 | 8 | - | - | 7-8 | 7-8 | 3200 |
| | Boscombe Down | 06·2 | -6 | WNW | 4 | c-bcjp | 55 | 65 | 44 | 8 | 3 | 6 | 3 | 4-6 | 7-8 | 2500 |
| | Thorney Island | 06·8 | -10 | WS | 5 | bc | 58 | 65 | 44 | 8 | 2 | 7 | - | 4-6 | 4-6 | 4000 |
| | Lympne | 05·4 | -14 | WSW | 4 | b-bc | 56 | 65 | 43 | 9 | 7 | - | - | 2-3 | 2-3 | 2800 |
| | Manston | 04·9 | -6 | SW | 4 | b-bc | 56 | 65 | 44 | 8 | 2 | 6 | - | 2-3 | 2-3 | 2500 |
| 2 | Shoeburyness | 05·7 | -10 | WSW | 3 | bc | 57 | 65 | 43 | 8 | 7 | - | - | 4-6 | 4-6 | 2500 |
| | Felixstowe | 03·5 | -8 | WSW | 5 | bc | 56 | 65 | 43 | 7 | 2 | - | - | 4-6 | 4-6 | 3000 |
| | Gorleston | 02·4 | 0 | W | 5 | b-bc | 56 | 55 | 48 | 7 | 1 | - | - | 2-3 | 2-3 | 2500 |
| | Mildenhall | 02·3 | -12 | SWW | 6 | bc | 56 | 55 | 42 | 8 | 2 | 6 | - | 4-6 | 4-6 | 2500 |
| | Cranwell | 00·2 | -18 | WSW | 5 | bc | 54 | 55 | 38 | 7 | 2 | 6 | 3 | 4-6 | 4-6 | 2000 |
| 3 | Birmingham | 02·9 | -10 | WSW | 4 | PHR | 45 | 92 | 43 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |
| | Upper Heyford | 04·1 | -6 | WSW | 4 | c-bc | 50 | 75 | 41 | 8 | 3 | - | 3 | 7-8 | 7-8 | 2000 |
| 4 | Ross-on-Wye | 03·7 | -8 | WS | 5 | cbcq | 52 | 65 | 40 | 8 | 2 | - | 3 | 7-8 | 7-8 | 3000 |
| 5 | Hartland Point | 05·8 | 0 | NW | 5 | cbc/phr | 50 | 75 | 43 | 8 | 3 | - | - | 7-8 | 7-8 | 2000 |
| | Bristol | 06·4 | -2 | WS | 4 | c/pr | 50 | 75 | 43 | 7 | 3 | - | - | 4-6 | 9 | 2500 |
| | Portland Bill | 07·6 | -4 | WSW | 5 | c-bc | 56 | 92 | 54 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 08·4 | -2 | WS | 5 | bc | 54 | 65 | 43 | 8 | 3 | 4 | 3 | 2-3 | 4-6 | 2500 |
| | The Lizard | 09·4 | 0 | WNW | 6 | bc | 52 | 75 | 43 | 8 | 8 | 4 | - | 4-6 | 4-6 | 1500 |
| | Scilly (St. Mary's) | 08·9 | -6 | W | 5 | c-bcjp | 55 | 65 | 42 | 8 | 8 | 6 | 3 | 4-6 | 7-8 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 04·7 | +6 | WN | 7 | cbcq | 52 | 75 | 42 | 8 | 2 | 6 | - | 4-6 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 00·7 | -2 | WS | 6 | c/pr | 52 | 65 | 43 | 8 | 8 | 6 | - | 9 | 9+ | 2500 |
| | Chester (Sealand) | 00·4 | -10 | W | 4 | c-bc | 53 | 55 | 37 | 8 | 8 | 6 | - | 4-6 | 7-8 | 3000 |
| 8 | Manchester | 00·6 | -10 | SW | 5 | c-bc/pr | 48 | 75 | 41 | 9 | 3 | 6 | 3 | 4-6 | 7-8 | 2500 |
| 10 | Spurn Head | 99·4 | -8 | SWW | 6 | b-bcq | 53 | 55 | 43 | 7 | 2 | - | - | 2-3 | 2-3 | 4000 |
| | Catterick | 97·7 | -8 | SE | 1 | c-bc/pr | 46 | 85 | 41 | 9 | 9 | 6 | 3 | 4-6 | 7-8 | 900 |
| | Tynemouth | 96·0 | -6 | W | 5 | c-bc | 51 | 65 | 38 | 6 | 8 | - | - | 7-8 | 7-8 | 1800 |
| 11 | St. Abbs Head | 92·0 | +10 | SW | 4 | c | 47 | 75 | 40 | 8 | 5 | 4 | - | 7-8 | 9 | 3000 |
| | Leuchars | 91·5 | -2 | W | 4 | c-bc | 50 | 85 | 55 | 8 | 8 | 7 | 3 | 2-3 | 7-8 | 2000 |
| 12 | Renfrew (Abbots I.) | 94·3 | +2 | SW | 3 | c/phr | 49 | 75 | 41 | 7 | 8 | 7 | - | 7-8 | 9 | 1400 |
| | Eskdalemuir | 94·2 | -4 | SWW | 4 | c | 45 | 75 | 38 | 8 | 8 | - | 2 | 4-6 | 9 | 1500 |
| | Point of Ayre | 96·9 | -4 | WNW | 6 | pr | 51 | 75 | 45 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| 13A | Tiree | 92·3 | -2 | WN | 6 | cjp | 49 | 75 | 41 | 8 | 3 | - | 3 | 4-6 | 9 | 2500 |
| 13B | Stornoway | 90·0 | +2 | NNE | 5 | pr | 46 | 92 | 44 | 8 | 8 | 1 | - | 7-8 | 9+ | 2000 |
| 15 | Dalwhinnie | 91·2 | -2 | WSW | 3 | pr | 42 | 85 | 38 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Aberdeen | 90·0 | -4 | WNW | 3 | b-bc | 50 | 65 | 37 | 9 | 8 | 4 | 3 | 1 | 2-3 | 2500 |
| | Wick | 90·1 | -6 | WNW | 3 | pr | 49 | 75 | 41 | 8 | 8 | 7 | 3 | 7-8 | 9 | 2000 |
| 16 | Sumburgh | 89·5 | -10 | NNW | 3 | c | 45 | 65 | 46 | 8 | 5 | 3 | - | 4-6 | 9 | 2500 |
| 17 | Blacksod Point | 01·1 | +6 | W | 5 | bc | 51 | 65 | 40 | 8 | 8 | - | 6 | 4-6 | 4-6 | 1500 |
| 18 | Malin Head | 94·9 | +2 | WNW | 4 | pr | 48 | 85 | 44 | 8 | 9 | - | - | 9+ | 9+ | 1500 |
| | Aldergrove | 97·3 | -2 | WS | 4 | c/pr | 47 | 85 | 43 | 8 | 8 | - | 8 | 4-6 | 9+ | 1500 |
| 19 | Birr Castle | 02·8 | +2 | WSW | 3 | c-bc | 48 | 85 | 44 | 8 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 20 | Valentia Obsy. | 06·9 | +2 | WNW | 4 | c/pr | 50 | 65 | 39 | 8 | 3 | - | - | 9 | 9 | 2500 |
| | Roches Point | 06·5 | +6 | WN | 5 | pr | 48 | 85 | 44 | 8 | 3 | 1 | - | 4-6 | 9 | 1500 |

## OBSERVATIONS at 18h. G.M.T. 24th October — 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. 24th (39) | Weather 13h.–18h. 24th (40) | Weather 18h. 24th–1h. 25th (41) | Weather 1h.–7h. 25th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 05·2 | +10 | WSW | 3 | b | 49 | 75 | | 7 | 5 | - | - | 1 | 1 | 2500 | 1 | * | robbcy | bcproyb | bbcw | bcw |
| Croydon | 06·1 | +4 | SSW | 3 | zo | 48 | 75 | 42 | 6 | 4 | 4 | 3 | 1 | 2-3 | 2500 | 1 | * | clroidobc | bcyprob | bzmozob | bbccw |
| S. Farnborough | 05·8 | +8 | WSW | 3 | bc | 43 | 65 | 38 | 8 | 4 | 6 | - | 1 | 1 | 3000 | 1 | * | cvbcy | bcybyb | bbcb | bcbc |
| Boscombe Down | 06·4 | +16 | SWW | 4 | b-bc | 45 | 85 | 41 | 8 | 3 | - | 3 | 2-3 | 2-3 | 3000 | 0 | * | cprobc | bcjpbc | bbc | cwbc |
| Thorney Island | 07·1 | +2 | WSW | 3 | bc | 50 | 85 | 44 | 8 | 2 | 6 | 3 | 2-3 | 4-6 | 2500 | 1 | | cprobc | bc | bcbbc | bccpro |
| Lympne | 06·4 | +10 | WSW | 3 | b | 46 | 85 | 40 | 8 | - | - | - | 0 | 0 | - | 1 | § 4 | croRroc | bcbyb | bbw | bbcc |
| Manston | 05·3 | +10 | W | 2 | b | 46 | 75 | 40 | 8 | 3 | - | - | Tr | Tr | 2500 | 1 | * | cbc | bcby | bw | bcwcbl |
| Shoeburyness | 05·5 | +2 | WSW | 4 | b | 50 | 65 | 40 | 7 | 5 | - | - | 1 | 1 | 2500 | 1 | * | crobc | bccw | bccw | bc |
| Felixstowe | 04·4 | +12 | SWW | 4 | b | 50 | 75 | 41 | 8 | - | 2 | - | Tr | Tr | - | 1 | 3 | irocbcc | bccm drmob | bbmo | bmo wbcbm |
| Gorleston | 02·2 | +8 | WS | 2 | b | 47 | 85 | 43 | 7 | 1 | - | - | 1 | 1 | 2000 | 1 | 3 | cbcy | bcyprobc | bw | bwc |
| Mildenhall | 02·6 | +10 | SWW | 4 | b | 48 | 75 | 41 | 8 | 4 | - | - | Tr | Tr | 4000 | 1 | * | clro cbcy | bcybcb | b | bbw, cbc |
| Cranwell | 00·9 | +6 | WSW | 4 | b-bc | 46 | 75 | 40 | 7 | 4 | 6 | - | 1 | 2-3 | 3000 | 0 | * | cbcy | bcyprobc | bcbbmo | bmo bwc |
| Birmingham | 03·3 | +4 | WSW | 3 | bc | 46 | 85 | 41 | 8 | 3 | - | 3 | 1 | 4-6 | 2500 | 1 | * | bccPR | cprbc | b | b |
| Upper Heyford | 04·1 | +4 | SW | 2 | bc | 45 | 85 | 41 | 8 | 3 | - | 3 | 2-3 | 4-6 | 2500 | 1 | * | bbcc | cbc | bcb | bccmobc |
| Ross-on-Wye | 04·5 | +8 | SWW | 3 | b | 48 | 65 | 39 | 8 | 8 | - | 3 | 1 | 1 | 3000 | 1 | * | bbcq | poqbc | bcbb | bbw |
| Hartland Point | 05·8 | +4 | WNW | 4 | c-bcjp | 51 | 75 | 42 | 8 | 3 | - | 3 | 4-6 | 7-8 | 1800 | 1 | 5 | bcpreph | cprhrc | cprc | cbcc |
| Bristol | 06·1 | +2 | WSW | 4 | bc | 47 | 85 | 41 | 8 | 3 | - | 3 | 4-6 | 4-6 | 2500 | 1 | * | bcprpHR | cprprobc | b, cPRbc | c, b |
| Portland Bill | 05·1 | +4 | W | 5 | c-bc | 54 | 92 | 52 | 8 | 5 | 7 | - | 4-6 | 7-8 | 2500 | 1 | 6 | cpro | c | c | c |
| Plymouth | 08·4 | +2 | WN | 5 | c/pr | 48 | 85 | 43 | 6 | 3 | 4 | - | 7-8 | 9+ | 2000 | 1 | 4 | cprbc | bcproc | bcmobc | cwbcc |
| The Lizard | 09·1 | 0 | WNW | 3 | c-bc/pr | 47 | 85 | 43 | 8 | 8 | - | - | 7-8 | 7-8 | 1000 | 1 | 4 | bcprc | bccpr | bcpro | bcprc |
| Scilly (St. Mary's) | 08·5 | -4 | W | 5 | cjp | 49 | 75 | 44 | 8 | 8 | 6 | - | 7-8 | 9 | 1200 | 1 | 4 | bccpqc | cpqc | cp | cpq++ |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 05·5 | +4 | NW | 5 | bc | 50 | 75 | 41 | 8 | 8 | 2 | - | 4-6 | 4-6 | 2500 | 1 | 4 | cproq | bc | cprq | cp++q |
| Holyhead (Valley) | 02·0 | +12 | W | 6 | c-bc | 49 | 65 | 38 | 8 | 2 | 6 | 3 | 4-6 | 7-8 | 2500 | 1 | 4 | bccpro | c | bbc | bctroc |
| Chester (Sealand) | 01·0 | +6 | SW | 2 | bc/pr | 49 | 65 | 39 | 8 | 8 | - | 3 | 4-6 | 4-6 | 3000 | 1 | * | b, bcpry | bcypro | bc, b | b, c, bc |
| Manchester | 00·8 | +8 | SSW | 4 | c/pr | 46 | 85 | 41 | 6 | 4 | - | - | 9 | 9 | 2500 | 1 | * | bc propr | PHRpro | cpro bcb | bbc |
| Spurn Head | 98·4 | +2 | SWW | 5 | iro | 48 | 75 | 41 | 7 | 2 | 6 | - | 4-6 | 9+ | 1500 | 1 | 4 | bc | cpriro | b | c |
| Catterick | 97·7 | +4 | WSW | 1 | c-bc | 44 | 85 | 39 | 8 | 8 | 5 | - | 4-6 | 7-8 | 2300 | 1 | * | bccprocc | cprobc | bcb | bccpr |
| Tynemouth | 96·0 | +2 | W | 3 | bc/pr | 46 | 85 | 42 | 6 | 8 | - | - | 4-6 | 4-6 | 1500 | 1 | 2 | bcmoc | cpobc | bc | bc |
| St. Abbs Head | 92·6 | +2 | SW | 3 | bc | 43 | 85 | 38 | 7 | 5 | 4 | - | 2-3 | 4-6 | 3000 | 0 | 4 | bbc | cbc | bccprc | cbc |
| Leuchars | 91·8 | +2 | WSW | 3 | bc | 43 | 97 | 43 | 7 | 4 | 7 | 1 | 2-3 | 4-6 | 1800 | 1 | * | ccprc | cbc | bccidoc | cprcir |
| Renfrew (Abbots I.) | 93·6 | -4 | WSW | 3 | pr | 46 | 85 | 41 | 7 | 9 | - | - | 7-8 | 7-8 | 1200 | 2 | * | cprpro | cpro | cpropr | cmo proc |
| Eskdalemuir | 94·6 | +6 | WSW | 4 | c/pr | 41 | 85 | 37 | 8 | 8 | - | - | 9 | 9 | 1800 | 1 | * | cproc | pro prc | cpro PRbc | bc |
| Point of Ayre | 97·1 | +8 | NWW | 7 | b-bc | 49 | 85 | 44 | 8 | 2 | 7 | 3 | 1 | 2-3 | 2500 | 0 | 5 | bccpro | phroc | cbcb | cbc |
| Tiree | 93·7 | +14 | NW | 4 | PR | 46 | 85 | 40 | 7 | 3 | - | - | 10 | 10 | 1000 | 1 | 4 | bcprejp | cpr | ++roproc | cbc |
| Stornoway | 93·3 | +20 | WNW | 3 | c-bc | 40 | 75 | 35 | 8 | 5 | 6 | 6 | 4-6 | 7-8 | 2800 | 2 | 3 | cpr | prbc | cbc | c |
| Dalwhinnie | 91·8 | +4 | N | 1 | c | 39 | 92 | 36 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * | cpr | oprc | * | cpro |
| Aberdeen | 90·7 | +6 | WN | 3 | c-bc | 46 | 75 | 39 | 8 | 4 | - | - | 7-8 | 7-8 | 2500 | 1 | 2 | cbc | bczo | circrc | c |
| Wick | 91·0 | +6 | N | 3 | c-bc | 43 | 75 | 36 | 9 | 8 | 7 | - | 4-6 | 7-8 | 2000 | 1 | * | cpro pro | cprocu | cbc | bc |
| Sumburgh | 90·1 | +6 | N | 2 | c | 41 | 75 | 33 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 | cproc | c, bc, c | cproc | cpro bccpr |
| Blacksod Point | 00·1 | -6 | W | 6 | cbc/pr | 48 | 75 | 41 | 8 | 9 | - | - | 7-8 | 7-8 | 1500 | 1 | 5 | bc | pr | bc | bc |
| Malin Head | 95·5 | +6 | WNW | 6 | bc/pr | 46 | 85 | 42 | 8 | 9 | - | - | 4-6 | 4-6 | 1500 | 2 | 5 | pr | pr | pr | pr |
| Aldergrove | 98·2 | +10 | WS | 5 | c/pr | 44 | 85 | 39 | 8 | 9 | - | 3 | 7-8 | 9+ | 1400 | 1 | * | bccproc | cprocproc | bbc | bcc |
| Birr Castle | 02·8 | 0 | W | 2 | bc | 45 | 75 | 39 | 8 | 3 | - | - | 2-3 | 2-3 | 1500 | 1 | * | pr | bc | * | c |
| Valentia Obsy. | 05·7 | -8 | SW | 3 | b-bc | 45 | 85 | 41 | 8 | 3 | - | - | 2-3 | 2-3 | 2500 | 1 | 4 | pr | pr | pr | pr |
| Roches Point | 06·2 | -2 | WN | 4 | bc/pr | 47 | 75 | 40 | 8 | 3 | - | 3 | 2-3 | 4-6 | 1500 | 1 | 4 | pr | pr | pr | + |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 25th October

| Districts | Forecast |
|---|---|
| 1 S.E. England ↓, 2 E. England, 3 E. Midlands, 4 W. Midlands | Freshening South to Southeast wind becoming variable and light later; cloudy, rain spreading Northeast across area today, showers later; rather cold. |
| 5 S.W. England ↓, 6 South Wales ↓ | Fresh Southeast wind strong or gale at exposed places at first, becoming moderate or light westerly; cloudy, rain at times; rather cold. |
| 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland | Light West wind becoming variable wind; variable cloud showers and local thunder today, fair tonight; rather cold, keen frost at night. |
| 16 Orkneys and Shetlands | As 7-15. |
| 17 N.W. Ireland, 18 N.E. Ireland | Light variable wind becoming Northerly; cloudy, occasional rain or showers, rather cold. |
| 19 S.E. Ireland | As 7-16 |
| 20 S.W. Ireland | As 17 |

### GENERAL INFERENCE

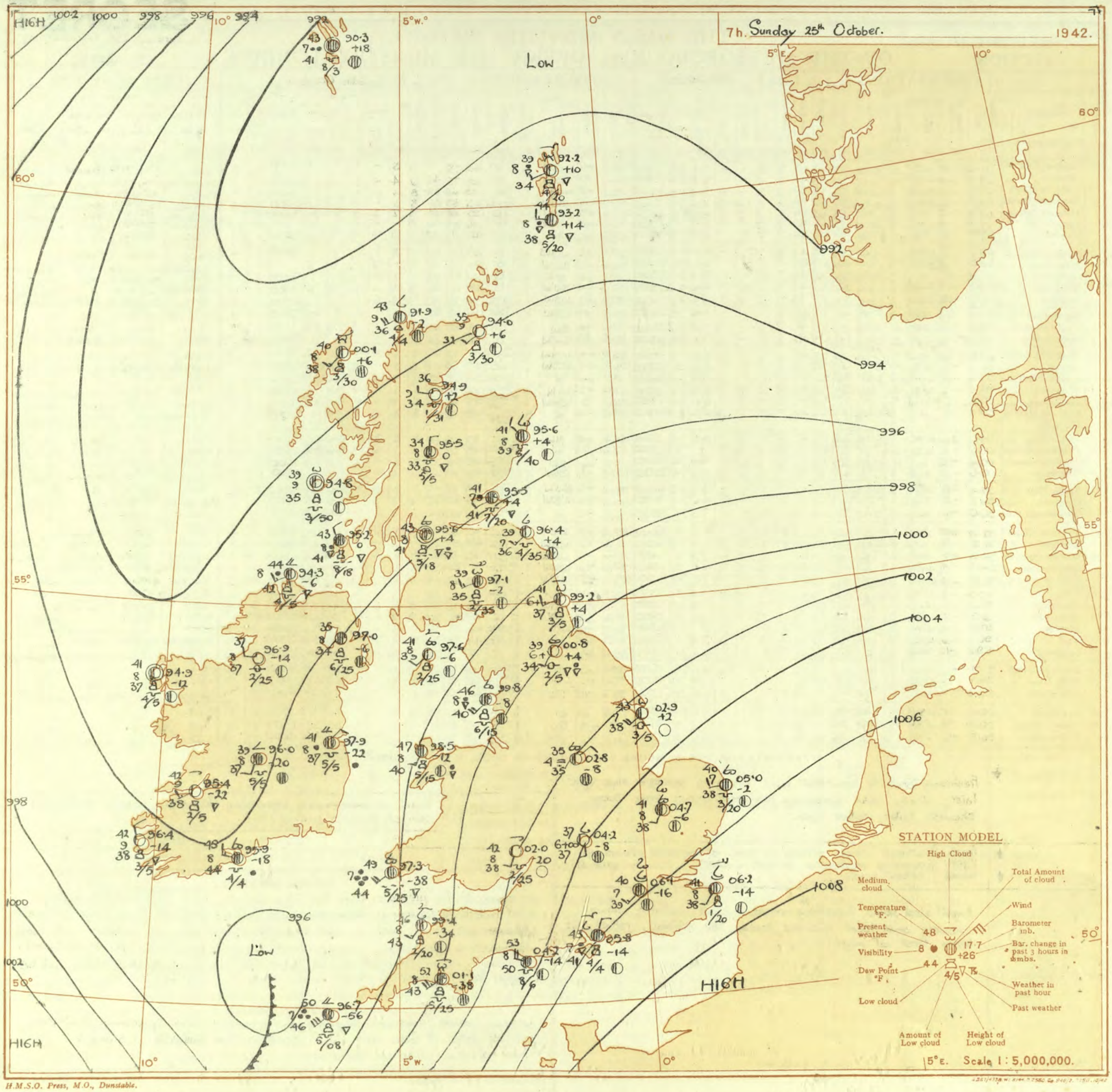
A trough of low pressure from the Hebrides to South Ireland is moving east, and a deepening depression with centres west of Scilly and off west Ireland will move east, or east northeast. There will be showers with local thunder in the North, cloudy conditions with rain will spread eastwards across Southern districts, it will be rather cold generally and there will be keen frost tonight at places in the North.

### FURTHER OUTLOOK

Continuing rather cold and showery; more general rain spreading to Western districts later. ↓ Gale warning in operation in districts 1, 5 and 6
Time of issue 0730 on 25/10/42.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

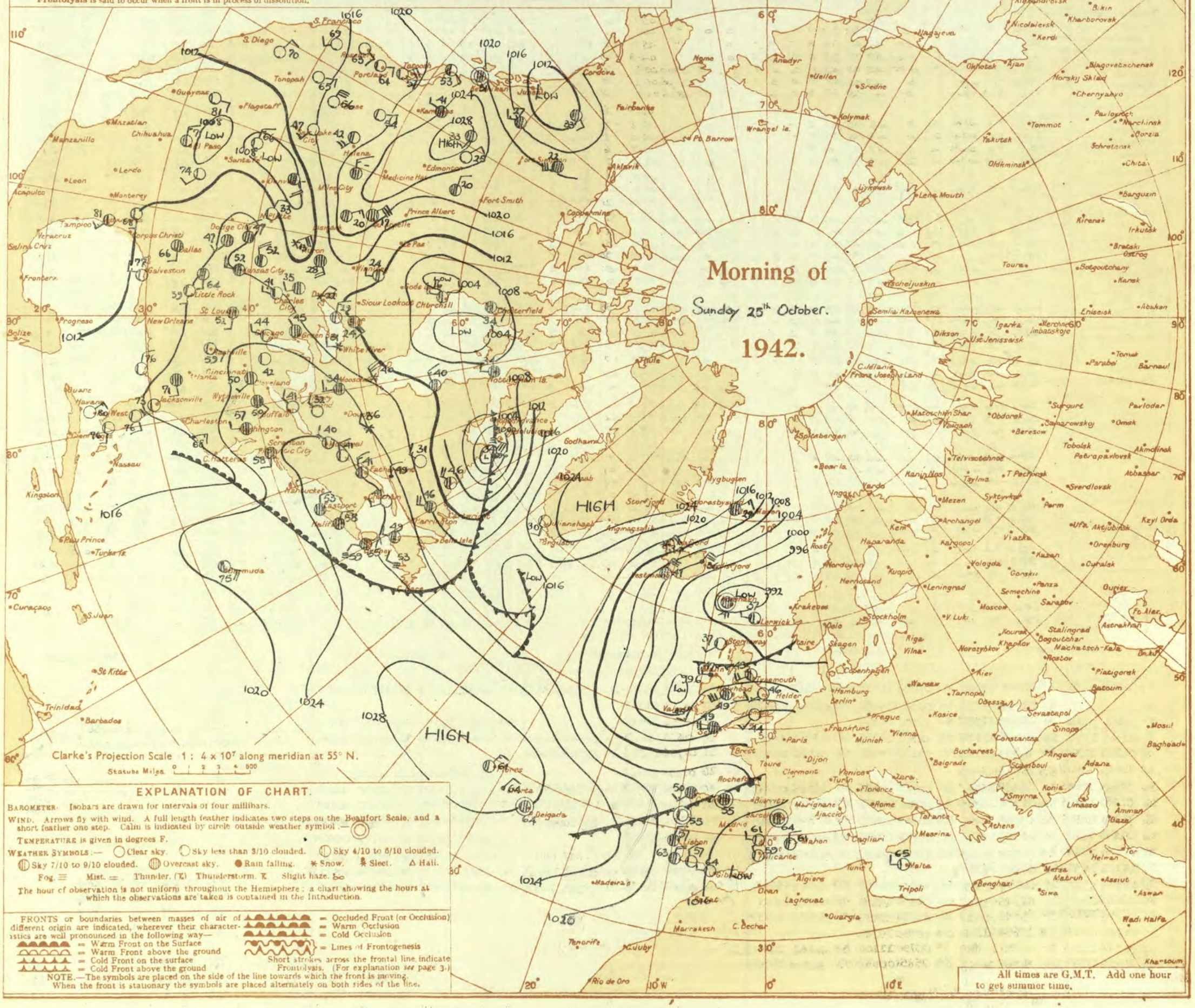
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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



Page 4. BRITISH SECTION

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

Sunday 25th October 1942

No. 29557

## OBSERVATIONS at 1 hr. G.M.T. 25th October

| 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 | * | * | * | * | * | 44 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 07·8 | -2 | SSW | 3 | b | 44 | 85 | 39 | 7 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 226 | 07·3 | 0 | SW'W | 3 | bc | 42 | 85 | 38 | 9 | - | 4 | 1 | 0 | 1 | - |
| | Boscombe Down | 417 | 07·4 | -2 | SSW | 1 | b-bc | 39 | 92 | 37 | 8 | - | - | 3 | 0 | 2-3 | - |
| | Thorney Island | 10 | 07·7 | -2 | WNW | 3 | b-bc | 45 | 85 | 42 | 8 | 2 | 4 | 1 | 1 | 2-3 | 2500 |
| | Lympne | 283 | 07·7 | -2 | WSW | 1 | b | 42 | 85 | 37 | 8 | 4 | 3 | - | Tr | Tr | 3000 |
| | Manston | 154 | 07·6 | +2 | SW | 1 | b | 41 | 85 | 37 | 8 | 2 | 6 | - | Tr | Tr | 2500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 06·1 | +4 | WSW | 4 | b | 46 | 85 | 42 | 6 | - | - | - | 0 | 0 | - |
| | Gorleston | 5 | 04·8 | +8 | WSW | 2 | b | 44 | 85 | 39 | 7 | - | - | - | 0 | 0 | - |
| | Mildenhall | 15 | 05·2 | +6 | SW'S | 4 | b | 43 | 85 | 40 | 8 | - | - | - | 0 | 0 | - |
| | Cranwell | 203 | 03·8 | +4 | WSW | 4 | $z_0$ | 42 | 85 | 38 | 6 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 05·6 | +2 | SW | 2 | bjf | 39 | 97 | 39 | 7 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 05·3 | -12 | W | 5 | bc/pr | 49 | 75 | 42 | 8 | 3 | - | - | 4-6 | 4-6 | 2500 |
| | Bristol | 209 | 07·2 | -4 | SSW | 3 | c-bc | 43 | 92 | 40 | 8 | 2 | 6 | - | 7-8 | 7-8 | 2500 |
| | Portland Bill | 32 | 08·4 | +4 | W | 4 | c-bc | 53 | 92 | 51 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 82 | 08·0 | -10 | - | 0 | c | 41 | 97 | 41 | 7 | 8 | 6 | 6 | 2-3 | 9 | 2500 |
| | The Lizard | 240 | 07·7 | -10 | WSW | 4 | c/pr | 49 | 75 | 40 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| | Scilly (St. Mary's) | 163 | 06·7 | -22 | WSW | 4 | c | 49 | 65 | 39 | 8 | 8 | 7 | 5 | 4-6 | 10 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 04·4 | -12 | WSW | 6 | c-bcq | 49 | 75 | 40 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 32 | 02·4 | -6 | WSW | 5 | c-bc | 48 | 75 | 40 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| | Chester (Sealand) | 16 | 02·7 | -2 | WSW | 2 | bc | 45 | 75 | 38 | 8 | 2 | 6 | - | Tr | Tr | 3000 |
| 8 | Manchester | 235 | 02·8 | +2 | S'E | 3 | bc | 39 | 85 | 36 | 7 | 2 | - | - | 1 | 1 | 2500 |
| 10 | Spurn Head | 29 | 02·2 | +8 | SW | 5 | b | 46 | 65 | 36 | 7 | - | - | - | 0 | 0 | - |
| | Catterick | 175 | 08·2 | +10 | SW | 2 | bc | 44 | 75 | 37 | 8 | 2 | - | - | 1 | 1 | 2500 |
| | Tynemouth | 108 | 97·7 | +6 | WSW | 4 | bc | 45 | 75 | 38 | 7 | 2 | 3 | - | 4-6 | 4-6 | 2500 |
| 11 | St. Abbs Head | 280 | 94·7 | +14 | SW | 4 | c-bc | 44 | 85 | 40 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Leuchars | 36 | 94·8 | +12 | - | 0 | c | 43 | 97 | 42 | 9 | 5 | 6 | - | 7-8 | 9+ | 3500 |
| 12 | Renfrew (Abbots I.) | 19 | 95·8 | +6 | SW | 2 | pr | 43 | 85 | 39 | 7 | 9 | - | - | 10 | 10 | 1000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 99·0 | +2 | W'N | 5 | bc | 46 | 85 | 42 | 8 | 2 | - | - | 1 | 1 | 2500 |
| 13A | Tiree | 22 | 95·0 | +2 | NNE | 2 | c | 43 | 95 | 37 | 8 | 8 | - | - | 9+ | 9+ | 3500 |
| 13B | Stornoway | 80 | 93·2 | -18 | WSW | 1 | b-bc | 37 | 97 | 37 | 8 | 2 | - | 5 | 2-3 | 2-3 | 3500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 94·7 | +4 | WNW | 2 | c | 41 | 85 | 38 | 8 | - | 3 | - | 0 | 9T | - |
| | Wick | 114 | 93·0 | +4 | W | 2 | bc | 36 | 92 | 33 | 9 | 8 | 3 | - | 4-6 | 4-6 | 3000 |
| 16 | Sumburgh | 19 | 91·1 | +2 | NW | 4 | c-bc | 44 | 65 | 35 | 9 | 3 | - | 2 | 2-3 | 7-8 | 2500 |
| 17 | Blacksod Point | 18 | 98·0 | +4 | SW | 3 | c-bc | 46 | 75 | 39 | 8 | 3 | - | 6 | 4-6 | 7-8 | 2500 |
| 18 | Malin Head | 84 | 95·3 | +2 | W | 4 | pr | 47 | 85 | 43 | 8 | 9 | - | - | 10 | 10 | 1500 |
| | Aldergrove | 268 | 98·7 | -6 | SSW | 4 | bc | 41 | 85 | 38 | 8 | 5 | 7 | 5 | Tr | 4-6 | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 00·0 | -30 | S | 3 | pr | 45 | 92 | 43 | 8 | 3 | 2 | - | 9+ | 10 | 2500 |
| | Roches Point | 22 | 02·1 | -30 | W | 3 | bc | 46 | 85 | 42 | 8 | 3 | - | 5 | 2-3 | 4-6 | 1500 |

## OBSERVATIONS at 7 hr. G.M.T. 25th October

| 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) | 05·1 | -16 | S'W | 1 | c-bc | 41 | 92 | 40 | 8 | - | 3 | 1 | 0 | 7-8 | - | 1 | * |
| Croydon | 06·1 | -16 | SSW | 3 | c-bc | 40 | 97 | 39 | 7 | - | 9 | 9 | 0 | 7-8 | - | 1 | * |
| S. Farnborough | 05·1 | -14 | SSE | 2 | c-bc | 40 | 92 | 38 | 7 | 5 | 7 | 6 | 2-3 | 7-8 | 4000 | 1 | * |
| Boscombe Down | 04·8 | -18 | E'S | 3 | c-bc | 36 | 97 | 36 | 8 | 2 | 7 | 1 | 4-6 | 7-8 | 3000 | 0 | * |
| Thorney Island | 03·8 | -14 | N'E | 1 | pr | 43 | 92 | 41 | 7 | 3 | 4 | 8 | 4-6 | 9 | 1500 | 1 | * |
| Lympne | 05·4 | -22 | SW | 1 | c | 39 | 97 | 39 | 8 | 5 | 9 | 8 | Tr | 9+ | 3500 | 1 | § |
| Manston | 06·2 | -14 | S | 1 | c-bc | 41 | 85 | 38 | 8 | 2 | 9 | 2 | Tr | 7-8 | 2000 | 1 | * |
| Shoeburyness | 06·8 | -22 | SSW | 2 | c-bc | 45 | 97 | 42 | 8 | - | 7 | - | 0 | 7-8 | - | 1 | * |
| Felixstowe | 05·4 | -8 | SW | 2 | $z_0$ | 43 | 92 | 41 | 6 | - | 1 | 6 | 0 | 7-8 | - | 1 | 2 |
| Gorleston | 05·0 | -2 | WSW | 2 | c-bc | 40 | 92 | 38 | 7 | 5 | 7 | - | 2-3 | 7-8 | 2000 | 1 | 2 |
| Mildenhall | 04·7 | -6 | S'E | 2 | c-bc | 41 | 85 | 38 | 8 | - | 7 | 9 | 0 | 7-8 | - | 1 | * |
| Cranwell | 03·8 | -2 | S'W | 3 | bc | 38 | 92 | 36 | 7 | - | - | 6 | 0 | 4-6 | - | 0 | * |
| Birmingham | 02·9 | -10 | SE | 2 | b-bc | 38 | 97 | 44 | 6 | - | 4 | 1 | 0 | 2-3 | - | 1 | * |
| Upper Heyford | 04·2 | -8 | SSE | 1 | $z_0$ | 37 | 97 | 37 | 6 | - | 4 | 1 | 0 | 2-3 | - | 1 | * |
| Ross-on-Wye | 02·0 | -20 | S'W | 2 | b-bc | 42 | 85 | 38 | 8 | 5 | - | 3 | 1 | 2-3 | 2500 | 1 | * |
| Hartland Point | 99·4 | -34 | SSW | 3 | c-bc | 46 | 85 | 43 | 8 | 2 | 4 | 5 | 1 | 7-8 | 2000 | 1 | 4 |
| Bristol | 03·5 | -22 | S'E | 2 | bc | 42 | 88 | 39 | 8 | 5 | 4 | 3 | 2-3 | 4-6 | 2500 | 1 | * |
| Portland Bill | 04·2 | -14 | W | 4 | c | 53 | 92 | 50 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 5 |
| Plymouth | 01·1 | -38 | SW'S | 5 | c | 52 | 75 | 43 | 8 | 8 | 6 | 3 | 7-8 | 9+ | 2500 | 0 | 4 |
| The Lizard | 99·0 | -50 | SW | 6 | c-bc/pr | 52 | 85 | 48 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 1 | 5 |
| Scilly (St. Mary's) | 96·7 | -56 | SSW | 6 | rr | 50 | 85 | 46 | 7 | 8 | 2 | - | 7-8 | 10 | 800 | 1 | |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 97·3 | -38 | SW | 4 | RR | 49 | 93 | 44 | 7 | 6 | 7 | - | 7-8 | 7-8 | 2500 | 1 | 4 |
| Holyhead (Valley) | 98·5 | -12 | S'W | 3 | c-bc/pr | 47 | 75 | 40 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| Chester (Sealand) | 01·0 | -14 | SE | 2 | bc | 39 | 92 | 36 | 6 | 5 | 3 | - | 2-3 | 4-6 | 3500 | 0 | * |
| Manchester | 01·6 | -8 | SSE | 3 | b-bc | 39 | 85 | 42 | 6 | 5 | 3 | - | 2-3 | 2-3 | 2500 | 1 | * |
| Spurn Head | 02·9 | +2 | SW'S | 4 | bc | 43 | 85 | 38 | 7 | 4 | 3 | - | 2-3 | 4-6 | 2500 | 0 | 3 |
| Catterick | 00·8 | +4 | S | 2 | b-bc/pr | 39 | 85 | 34 | 6 | 4 | 7 | - | 1 | 2-3 | 2500 | 1 | * |
| Tynemouth | 99·2 | +4 | WSW | 3 | bc | 41 | 85 | 37 | 6 | 2 | 3 | 1 | 2-3 | 4-6 | 2500 | 1 | 2 |
| St. Abbs Head | 96·4 | +4 | SSW | 3 | c | 39 | 92 | 36 | 7 | 5 | 4 | - | 4-6 | 4-6 | 3500 | 1 | 3 |
| Leuchars | 95·5 | +4 | SW | 1 | $id_0$ | 41 | 97 | 41 | 7 | 5 | - | - | 9+ | 9+ | 2000 | 1 | * |
| Renfrew (Abbots I.) | 95·6 | +4 | - | 0 | c/pr | 43 | 92 | 41 | 8 | 9 | 7 | - | 7-8 | 9+ | 1800 | 2 | * |
| Eskdalemuir | 97·1 | -2 | WSW | 3 | c-bc | 39 | 85 | 35 | 8 | 3 | 3 | 2 | 1 | 7-8 | 3500 | 1 | * |
| Point of Ayre | 97·6 | -6 | SW'S | 2 | bc | 41 | 92 | 39 | 8 | 2 | 7 | 5 | 1 | 4-6 | 2500 | 0 | 3 |
| Tiree | 94·8 | 0 | - | 0 | bc | 39 | 85 | 35 | 9 | 8 | 3 | - | 2-3 | 4-6 | 5000 | 1 | 3 |
| Stornoway | 00·1 | +6 | SSW | 2 | bc | 40 | 97 | 38 | 8 | 3 | 6 | 1 | 2-3 | 4-6 | 3000 | 1 | 1 |
| Dalwhinnie | 95·5 | 0 | N | 1 | c-bc | 34 | 97 | 33 | 8 | 7 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Aberdeen † | 95·6 | +4 | WNW | 1 | c-bc | 41 | 92 | 39 | 8 | 5 | 5 | - | 7-8 | 7-8 | 4000 | 1 | 2 |
| Wick | 94·0 | +6 | SSW | 2 | b-bc | 35 | 85 | 32 | 9 | 2 | - | - | 2-3 | 2-3 | 3000 | 1 | * |
| Sumburgh | 93·2 | +14 | W | 3 | pr | 44 | 75 | 38 | 8 | 3 | - | - | 7-8 | 7-8 | 2000 | 1 | 3 |
| Blacksod Point | 94·9 | -12 | - | 0 | bc | 41 | 85 | 37 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | 1 |
| Malin Head | 94·3 | -6 | SWW | 3 | $ir_0$ | 44 | 92 | 42 | 8 | 8 | 2 | - | 4-6 | 9 | 2600 | 2 | 3 |
| Aldergrove | 97·0 | -6 | - | 0 | c | 35 | 97 | 34 | 8 | 8 | - | - | 9 | 9 | 2500 | 1 | * |
| Birr Castle | 96·0 | -20 | S | 2 | c | 39 | 92 | 37 | 8 | 5 | 1 | - | 7-8 | 10 | 2500 | 1 | * |
| Valentia Obsy. | 96·4 | -14 | NW | 2 | b-bc | 42 | 83 | 38 | 9 | 3 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| Roches Point | 95·9 | -18 | W | 3 | c-bc | 45 | 97 | 44 | 8 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 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 24th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 55 | 39 | 26 | Tr | Tr | 6·4 |
| Croydon | 57 | 39 | 36 | 0·2 | Tr | 5·9 |
| S. Farnborough | 56 | 38 | 29 | - | Tr | 6·8 |
| Boscombe Down | 55 | 35 | 28 | Tr | Tr | 7·6 |
| Thorney Island | 59 | 40 | 33 | Tr | Tr | * |
| Lympne | 57 | 37 | 30 | 2 | Tr | 3·7 |
| Manston | 56 | 39 | 34 | 0·3 | Tr | * |
| Shoeburyness | 58 | 41 | 30 | 0·4 | - | 5·2 |
| Felixstowe | 57 | 38 | 41 | 3 | Tr | 4·8 |
| Gorleston | 56 | 40 | 38 | 1 | Tr | 5·6 |
| Mildenhall | 56 | 41 | 35 | Tr | Tr | 6·1 |
| Cranwell | 54 | 37 | 32 | 0·1 | - | 7·1 |
| Birmingham | 52 | 30 | 29 | 0·2 | - | 5·2 |
| Upper Heyford | 53 | 37 | 33 | - | - | * |
| Ross-on-Wye | 53 | 39 | 29 | Tr | - | 7·0 |
| Hartland Point | 52 | 44 | 41 | 3 | 0·1 | 3·1 |
| Bristol | 54 | 40 | 35 | 6 | 1 | 3·3 |
| Portland Bill | 57 | 51 | * | - | - | * |
| Plymouth | 55 | 40 | 30 | 3 | - | 6·6 |
| The Lizard | 56 | 45 | * | 1 | 1 | 5·0 |
| Scilly (St. Mary's) | 55 | 45 | * | 3 | 0·3 | 4·1 |
| Guernsey | | | | | | |
| Pembroke | 53 | 52 | * | 0·3 | 3 | 5·6 |
| Holyhead (Valley) | 53 | 46 | 41 | Tr | Tr | * |
| Chester (Sealand) | 56 | 38 | 28 | Tr | - | 7·0 |
| Manchester | 50 | 38 | 33 | 1 | 0·6 | * |
| Spurn Head | 54 | 42 | * | Tr | Tr | 6·1 |
| Catterick | 49 | 39 | 33 | 0·6 | 1 | 4·3 |
| Tynemouth | 51 | 40 | 36 | Tr | - | * |
| St. Abbs Head | 49 | 38 | * | - | Tr | * |
| Leuchars | 51 | 40 | 34 | 0·3 | 1 | 3·5 |
| Renfrew (Abbots I.) | 49 | 42 | 41 | 4 | 12 | 0·9 |
| Eskdalemuir | 48 | 37 | 35 | 4 | 9 | 0·6 |
| Point of Ayre | 53 | 39 | * | 0·1 | - | 4·3 |
| Tiree | 50 | 38 | * | 4 | 15 | 2·1 |
| Stornoway | 47 | 42 | * | 5 | - | 1·1 |
| Dalwhinnie | 44 | 30 | 30 | 4 | Tr | 0·2 |
| Aberdeen † | 50 | 39 | 36 | - | 0·3 | 5·0 |
| Wick | 49 | 34 | 27 | 1 | 0·2 | * |
| Sumburgh | 46 | 40 | 31 | Tr | 1 | 3·8 |
| Blacksod Point | 52 | 40 | * | 2 | 0·5 | * |
| Malin Head | 49 | 43 | | 3 | 8 | 0·9 |
| Aldergrove | 49 | 34 | 29 | 0·5 | 0·2 | 2·6 |
| Birr Castle | 50 | 37 | 33 | 1 | - | 1·8 |
| Valentia Obsy. | 52 | 42 | 33 | 2 | 4 | 1·4 |
| Roches Point | 52 | 44 | * | 0·5 | 3 | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 24th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 25th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 87 | 22845 | 02487 | 4- | 01864 | 29314 | 8- | 01854 | 21324 | 36 | 25854 | 19284 |
| 115 | | | | 87 | 02944 | 04485 | 14 | 02940 | 24486 | 14 | 02944 | 20426 |
| 203 | 8- | 10848 | 30388 | 8- | 25848 | 32588 | 8- | 02957 | 24327 | | | |
| 206 | 86 | 02965 | 24326 | 86 | 81848 | 32388 | 53 | 01962 | 27284 | 50 | 01961 | 24111 |
| 210 | 86 | 02965 | 22327 | 26 | 81855 | 02388 | 36 | 81855 | 21168 | 86 | 01953 | 20113 |
| 220 | 83 | 25946 | 27487 | 83 | 25844 | 03185 | | | | | | |
| 230 | 36 | 27955 | 22385 | 9- | 26857 | 24287 | 86 | 02965 | 00026 | 94 | 10965 | 00015 |
| 245 | 36 | 02953 | 24415 | 86 | 02954 | 24385 | 83 | 02966 | 25187 | 87 | 10957 | 26157 |
| 260 | 26 | 25754 | 20385 | 30 | 05665 | 20415 | 04 | 05664 | 52585 | 57 | 81764 | 24485 |
| 278 | 86 | 02846 | 22417 | 36 | 02843 | 24627 | 26 | 01843 | 22415 | 87 | 01851 | 20213 |
| 279 | 36 | 02854 | 22425 | 84 | 81854 | 25485 | 26 | 01863 | 55683 | 9- | 81857 | 22387 |
| 285 | 27 | 25745 | 24587 | 37 | 81635 | 24587 | | | | | | |
| 288 | 30 | 02864 | 52417 | 26 | 01854 | 19385 | 56 | 01841 | 18213 | 57 | 01762 | 15313 |
| 575 | 96 | 25845 | 22487 | 36 | 82745 | 59587 | 30 | 02851 | 24215 | 40 | 01852 | 24212 |
| 301 | 8- | 25844 | 59587 | 9- | 25846 | 26687 | 80 | 01854 | 57425 | 87 | 81846 | 18427 |
| 321 | 3- | 25755 | 24485 | 34 | 25654 | 22386 | 04 | 01790 | 20381 | | | |
| 299 | 60 | 01744 | 22514 | 8- | 81755 | 20485 | 00 | 00790 | 22200 | 54 | 01663 | 20413 |
| 292 | 3L | 81855 | 21387 | 96 | 81865 | 24187 | 34 | 25851 | 00083 | 73 | 80801 | 93381 |
| 310 | | | | | | | | | | | | |
| 614 | 30 | 01754 | 53865 | 30 | 01754 | 22414 | 00 | 05690 | 22200 | | | |

| III | 13h. G.M.T. 24th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 25th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 26 | 02854 | 55516 | 36 | 10854 | 57425 | 24 | 02855 | 22313 | 37 | 27844 | 00087 |
| 334 | -- | 02644 | 28415 | | | | | | | | | |
| 340 | 3- | 25946 | 23486 | | | | 40 | 01891 | 22301 | 54 | 01763 | 12314 |
| 136 | 20 | 01853 | 19563 | 30 | 01862 | 20412 | 00 | 00790 | 24310 | 53 | 05674 | 20216 |
| 336 | 21 | 25784 | 24586 | 21 | 25754 | 28426 | | | | | | |
| 350 | 26 | 02854 | 20465 | | | | 00 | 00790 | 20210 | 03 | 02790 | 17224 |
| 368 | 80 | 25854 | 22585 | 86 | 01844 | 58585 | 80 | 25854 | 23484 | 13 | 02852 | 20215 |
| 379 | 87 | 25854 | 22585 | 40 | 01853 | 22313 | 00 | 00790 | 24300 | 57 | 01942 | 16324 |
| 390 | 20 | 01764 | 20414 | 00 | 05690 | 22480 | 00 | 05590 | 20310 | 57 | 41563 | 16225 |
| 382 | 96 | 81855 | 55585 | | | | 00 | 00890 | 20200 | 57 | 01951 | 00024 |
| 438 | | | | 24 | 07744 | 24614 | 20 | 01744 | 26314 | 50 | 81747 | 12287 |
| 430 | 20 | 01854 | 22484 | 40 | 01853 | 22213 | 20 | 01861 | 30113 | 24 | 02854 | 08227 |
| 409 | 26 | 02855 | 23626 | 36 | 02855 | 24425 | 3- | 81748 | 20428 | 87 | 02746 | 17317 |

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 25th October
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 * | 6bbcy | bcproyb | bbcwbcw |
| Croydon | $cir_0$ idbbc | bcyprob | $bz_0m_0$ccw |
| Greenwich | cbc | bcb | bxcb |
| Camden Square | c | b | * |
| *Kensington | cbc | bc | * |
| Hampstead | bc | bc | bc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1 Time 13-21h 24th. Min. <0·1 Time 0-7h 25th.

| 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 | 55 | 39 | 26 | Tr | Tr | 6·4 | * | * |
| Croydon | 57 | 39 | 36 | 0·2 | Tr | 5·9 | * | * |
| Greenwich | 57 | 37 | 27 | - | - | 5·7 | 60 | 73 |
| Westminster | 57 | 40 | 34 | — | — | | 74 | 84 |
| Regents Park | | | | | | | | |
| Camden Square | 57 | 39 | 32 | - | - | * | * | 86 |
| Kensington | 58 | 38 | 26 | - | - | | 64 | 80 |
| Hampstead | 56 | 38 | 32 | - | - | | * | 82 |

Page 1

**SECRET**

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

Monday 26th October 1942

No. 29558

## OBSERVATIONS at 13h. G.M.T. 25th October

| District | Stations (For heights see p. 4.) | (1) Barom. at M.S.L. mb. | (2) Change in 3 hours | (3) Wind Direc. | (4) Wind Force 0–12 | (5) Weather | (6) Temp. °F. | (7) % Humid. | (8) Dew Point °F. | (9) Visibility 0–9 | (10) Cloud Form Low | (11) Cloud Form Med. | (12) Cloud Form High | (13) Cloud Amount Low 0–10 | (14) Cloud Amount Total 0–10 | (15) Height of Base (feet) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 98·1 | -42 | S | 5 | c | 54 | 65 | 41 | 8 | 8 | - | 6 | 4-6 | 9 | 1500 |
| | Croydon | 99·9 | -50 | S | 4 | c | 56 | 65 | 44 | 7 | 4 | 4 | 3 | 4-6 | 9 | 2000 |
| | S. Farnborough | 97·7 | -32 | S | 3 | c | 53 | 65 | 42 | 8 | 8 | 1 | - | 4-6 | 9+ | 2500 |
| | Boscombe Down | 95·5 | -60 | S'E | 5 | c/pr | 50 | 85 | 44 | 7 | 9 | 7 | - | 7-8 | 10 | 2500 |
| | Thorney Island | 99·1 | -40 | S | 6 | c | 55 | 75 | 47 | 9 | 5 | 2 | - | 4-6 | 9+ | 2500 |
| | Lympne | 01·3 | -34 | S | 4 | c-bc | 54 | 65 | 42 | 9 | 1 | 9 | - | 4-6 | 7-8 | 4000 |
| | Manston | 01·8 | -22 | S'E | 2 | c-bc | 55 | 55 | 41 | 8 | 2 | - | 8 | 2-3 | 7-8 | 2100 |
| 2 | Shoeburyness | 01·8 | -20 | S'W | 4 | bc | 56 | 65 | 43 | 8 | 1 | 7 | 6 | 2-3 | 4-6 | 3000 |
| | Felixstowe | 00·9 | -34 | SSE | 5 | c/pr | 52 | 75 | 46 | 8 | 8 | 7 | - | 7-8 | 9 | 2500 |
| | Gorleston | 02·4 | -22 | SW'S | 4 | pr | 54 | 65 | 43 | 7 | 4 | 7 | - | 4-6 | 7-8 | 2000 |
| | Mildenhall | 99·7 | -34 | S | 4 | cjp | 55 | 65 | 45 | 8 | 3 | 7 | 3 | 4-6 | 9+ | 3000 |
| | Cranwell | 09·9 | -36 | SE'S | 3 | c | 49 | 75 | 43 | 7 | 5 | 7 | 3 | 2-3 | 9+ | 1800 |
| 3 | Birmingham | 96·0 | -46 | SE | 4 | iro | 47 | 85 | 43 | 6 | 6 | 2 | - | 4-6 | 10 | 1500 |
| | Upper Heyford | 97·8 | -44 | SSE | 3 | iro | 49 | 95 | 40 | 6 | 5 | 2 | - | 7-8 | 9+ | 1500 |
| 4 | Ross-on-Wye | 93·2 | -60 | SE'E | 3 | iro | 49 | 85 | 45 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 5 | Hartland Point | 90·8 | -40 | WNW | 4 | c/r | 49 | 97 | 48 | 6 | 6 | 2 | - | 7-8 | 9 | 1200 |
| | Bristol | 94·4 | -54 | SSE | 3 | roro | 50 | 85 | 44 | 7 | 5 | 7 | - | 4-6 | 10 | 2500 |
| | Portland Bill | 96·2 | -44 | S | 5 | rr | 55 | 85 | 49 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 91·5 | -54 | S'W | 6 | pr | 50 | 97 | 50 | 6 | 8 | 7 | - | 9 | 9+ | 1000 |
| | The Lizard | 92·9 | -14 | NW | 6 | c/pr | 49 | 92 | 47 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 |
| | Scilly (St. Mary's) | 94·1 | +2 | WNW | 5 | c | 53 | 65 | 42 | 8 | 8 | 6 | - | 7-8 | 9 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 91·9 | -16 | WNW | 3 | iro | 47 | 92 | 45 | 8 | 5 | - | · | 10 | 10 | 2500 |
| 7 | Holyhead (Valley) | 91·9 | -42 | NE | 1 | rr | 45 | 97 | 44 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 |
| | Chester (Sealand) | 94·0 | -50 | W | 2 | roro | 47 | 85 | 43 | 6 | 5 | 2 | - | 4-6 | 10 | 2500 |
| 8 | Manchester | 95·1 | -48 | ESE | 4 | zo | 48 | 75 | 41 | 6 | 5 | 2 | - | 2-3 | 10 | 4000 |
| 10 | Spurn Head | 99·7 | -26 | SSE | 5 | c-bc | 51 | 75 | 42 | 7 | 1 | 5 | - | 2-3 | 7-8 | 2500 |
| | Catterick | 97·8 | -26 | SE | 3 | m | 46 | 85 | 41 | 4 | 5 | 2 | - | 4-6 | 10 | 1500 |
| | Tynemouth | 98·3 | -8 | SSW | 3 | c-bc | 48 | 75 | 39 | 6 | 8 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 96·6 | -2 | SSW | 3 | c | 47 | 75 | 40 | 7 | 5 | 4 | - | 7-8 | 9 | 4000 |
| | Leuchars | 98·4 | -4 | SW'W | 2 | c-bc | 42 | 92 | 39 | 8 | 8 | 6 | 3 | 4-6 | 7-8 | 3000 |
| 12 | Renfrew (Abbots I.) | 95·6 | -16 | S | 1 | c | 47 | 75 | 40 | 7 | 8 | 2 | - | 2-3 | 9+ | 1800 |
| | Eskdalemuir | 95·5 | -8 | SE | 3 | c | 43 | 85 | 40 | 7 | 8 | 7 | - | 4-6 | 10 | 2200 |
| | Point of Ayre | 93·7 | -24 | SE'E | 3 | rr | 45 | 92 | 43 | 7 | 6 | 2 | - | 4-6 | 10 | 800 |
| 13A | Tiree | 93·8 | -8 | SE'E | 2 | cjp | 48 | 75 | 39 | 9 | 8 | 6 | 3 | 7-8 | 9 | 3500 |
| 13B | Stornoway | 91·6 | -6 | SSW | 5 | b-bc/pr | 47 | 85 | 43 | 8 | 5 | 7 | - | 2-3 | 2-3 | 2500 |
| 15 | Dalwhinnie | 94·6 | -2 | S | 2 | c | 43 | 65 | 34 | 8 | 5 | - | - | 9 | 9 | 2500 |
| | Aberdeen | 95·5 | -2 | S'E | 2 | c | 47 | 75 | 39 | 8 | 9 | - | - | 9+ | 9+ | 2000 |
| | Wick | 95·3 | +2 | SSE | 2 | bc | 49 | 65 | 36 | 9 | 7 | - | - | 4-6 | 4-6 | 2500 |
| 16 | Sumburgh | 95·8 | +14 | SW'W | 4 | bc | 47 | 75 | 40 | 9 | 2 | 6 | - | 4-6 | 4-6 | 2500 |
| 17 | Blacksod Point | 94·3 | -4 | S'E | 2 | roro | 46 | 85 | 42 | 8 | 6 | - | - | 9+ | 10 | 2500 |
| 18 | Malin Head | 93·2 | -12 | W | 2 | bc | 48 | 85 | 44 | 8 | 2 | - | 1 | 4-6 | 4-6 | 2500 |
| | Aldergrove | 94·4 | -18 | - | 0 | c | 43 | 85 | 39 | 8 | 8 | 4 | 8 | 9 | 9+ | 2000 |
| 19 | *Birr Castle | 93·0 | -20 | N | 2 | c-bc | 48 | 75 | 41 | 8 | 4 | - | · | 7-8 | 7-8 | 1500 |
| 20 | Valentia Obsy. | 93·6 | -14 | NW'N | 1 | c-bc/pr | 47 | 85 | 43 | 8 | 3 | - | · | 7-8 | 7-8 | 2500 |
| | Roches Point | 93·1 | -14 | NW | 4 | bc | 50 | 75 | 43 | 8 | 3 | - | 3 | 2-3 | 4-6 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 25th October

| Stations | (16) Barom. at M.S.L. mb. | (17) Change in 3 hours | (18) Wind Direc. | (19) Wind Force 0–12 | (20) Weather | (21) Temp. °F. | (22) % Humid. | (23) Dew Point °F. | (24) Visibility 0–9 | (25) Cloud Form Low | (26) Cloud Form Med. | (27) Cloud Form High | (28) Cloud Amount Low 0–10 | (29) Cloud Amount Total 0–10 | (30) Height of Base (feet) | (31) State of Ground 0–9 | (32) Sea 0–9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 90·7 | -16 | [illegible] | 4 | bc/r | 50 | 85 | 46 | 7 | 8 | 3 | 3 | 2-3 | 4-6 | 1500 | 1 | * |
| Croydon | 91·2 | -46 | WSW | 4 | roro | 52 | 92 | 50 | 6 | 6 | 4 | - | 7-8 | 7-8 | 600 | 1 | * |
| S. Farnborough | 91·1 | 0 | WSW | 4 | bc/r | 48 | 85 | 44 | 7 | 9 | 6 | 3 | 4-6 | 4-6 | 1000 | 1 | * |
| Boscombe Down | 91·9 | +2 | W | 5 | c-bc | 46 | 92 | 44 | 7 | 9 | - | 3 | 4-6 | 7-8 | 1600 | 1 | * |
| Thorney Island | 92·6 | +18 | WSW | 6 | b-bc | 50 | 85 | 47 | 7 | 2 | 6 | · | 2-3 | 2-3 | 4000 | 1 | * |
| Lympne | 93·3 | -46 | S'E | 6 | rr | 51 | 97 | 51 | 5 | 6 | 2 | · | 9+ | 10 | 600 | 1 | §7 |
| Manston | 94·1 | -30 | S'E | 6 | RR | 50 | 97 | 49 | 6 | 6 | 2 | - | 2-3 | 10 | 800 | 1 | * |
| Shoeburyness | 93·1 | -20 | SW | 5 | rr | 52 | 92 | 50 | 6 | 5 | - | - | 10 | 10 | 1300 | 1 | * |
| Felixstowe | 93·5 | -46 | SE | 7 | iro | 52 | 92 | 51 | 7 | 5 | - | - | 10 | 10 | 2600 | 1 | 4 |
| Gorleston | 94·9 | -36 | S | 7 | c | 54 | 75 | 46 | 7 | 5 | - | · | 10 | 10 | 1500 | 1 | 4 |
| Mildenhall | 90·6 | -56 | SE'S | 5 | rr | 50 | 97 | 49 | 6 | - | 2 | - | 10 | 10 | 1800 | 1 | * |
| Cranwell | 89·8 | -54 | ESE | 4 | rr | 47 | 92 | 45 | 6 | 6 | 2 | - | 9+ | 10 | 2100 | 1 | * |
| Birmingham | 88·5 | -40 | SW | 3 | iro | 43 | 92 | 41 | 5 | 6 | - | · | 9+ | 9+ | 1500 | 1 | * |
| Upper Heyford | 89·0 | -30 | WSW | 3 | c-bcf | 47 | 92 | 43 | 8 | 5 | 7 | · | 7-8 | 7-8 | 1200 | 1 | * |
| Ross-on-Wye | 90·0 | -6 | SW | 3 | c-bc | 45 | 85 | 40 | 8 | 5 | - | - | 7-8 | 7-8 | 2000 | 1 | * |
| Hartland Point | 92·7 | +18 | NW | 5 | c-bc | 49 | 75 | 40 | 8 | 3 | 6 | · | 4-6 | 7-8 | 1500 | 1 | 4 |
| Bristol | 92·0 | +14 | WSW | 4 | b-bc | 46 | 85 | 42 | 8 | 2 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| Portland Bill | 94·1 | +22 | W | 5 | c-bc | 52 | 75 | 46 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | 6 |
| Plymouth | 95·2 | +24 | W | 6 | c-bc | 49 | 75 | 41 | 8 | 3 | 6 | 3 | 7-8 | 7-8 | 2000 | 1 | 4 |
| The Lizard | 95·7 | +8 | WNW | 6 | c-bc | 49 | 75 | 40 | 8 | 8 | 6 | · | 7-8 | 7-8 | 1500 | 1 | 5 |
| Scilly (St. Mary's) | 95·2 | +6 | WNW | 5 | c-bc | 50 | 75 | 41 | 8 | 8 | 6 | - | 4-6 | 7-8 | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 91·7 | +10 | WNW | 5 | c-bcq | 49 | 65 | 38 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 | 1 | 4 |
| Holyhead (Valley) | 87·2 | -10 | - | 0 | roro | 44 | 92 | 42 | 6 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 2 |
| Chester (Sealand) | 87·0 | -36 | ESE | 3 | roro | 47 | 92 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 1500 | 1 | * |
| Manchester | 87·6 | -38 | E | 4 | rr | 46 | 92 | 43 | 6 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Spurn Head | 92·9 | -22 | SE'S | 7 | ir | 52 | 75 | 46 | 7 | 8 | 2 | - | 4-6 | 10 | 1500 | 1 | 4 |
| Catterick | 91·4 | -22 | ESE | 3 | rf | 46 | 92 | 43 | 3 | 5 | 2 | - | 4-6 | 10 | 900 | 1 | * |
| Tynemouth | 93·8 | -20 | SE | 5 | c | 50 | 75 | 43 | 7 | 8 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| St. Abbs Head | 94·3 | -14 | SSE | 3 | zo | 47 | 85 | 43 | 6 | 5 | - | - | 10 | 10 | 2000 | 0 | 3 |
| Leuchars | 94·0 | +8 | - | 0 | c | 44 | 92 | 43 | 7 | 8 | 2 | · | | 9+ | 2000 | 1 | * |
| Renfrew (Abbots I.) | 93·2 | -12 | NE'E | 2 | iro | 45 | 85 | 40 | 5 | 5 | 2 | · | 4-6 | 10 | 1600 | 2 | * |
| Eskdalemuir | 91·9 | -22 | ENE | 3 | rr | 41 | 92 | 39 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | * |
| Point of Ayre | 87·6 | -20 | SE'E | 5 | rr | 47 | 92 | 45 | 7 | 6 | 2 | · | 9 | 10 | 800 | 1 | 5 |
| Tiree | 93·1 | -6 | NNE | 1 | bc | 41 | 85 | 35 | 9 | 8 | 6 | 6 | 1 | 4-6 | 3500 | 1 | 1 |
| Stornoway | 92·0 | +4 | SW | 2 | c/pr | 45 | 85 | 42 | 8 | 8 | 7 | - | 7-8 | 9 | 2500 | 1 | 2 |
| Dalwhinnie | 93·6 | -4 | SSW | 2 | c | 40 | 85 | 38 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 | 0 | * |
| Aberdeen | 95·3 | -2 | - | 0 | c-bcft | 40 | 92 | 38 | 3 | 4 | - | 6 | Tr | 7-8 | 2500 | 1 | 1 |
| Wick | 95·3 | +2 | SE'E | 1 | b-bc | 43 | 85 | 37 | 9 | 8 | - | 4 | 2-3 | 2-3 | 2000 | 0 | * |
| Sumburgh | 96·9 | +10 | SE | 2 | bc | 45 | 75 | 38 | 9 | 8 | 6 | - | 2-3 | 4-6 | 2500 | 1 | 2 |
| Blacksod Point | 94·1 | 0 | N | 3 | c-bc | 48 | 75 | 41 | 8 | 9 | - | - | 7-8 | 7-8 | 2500 | 1 | 3 |
| Malin Head | 91·7 | -8 | N'E | 4 | c/pr | 47 | 85 | 43 | 8 | 2 | 2 | - | 4-6 | 9+ | 1500 | 2 | 3 |
| Aldergrove | 91·6 | -16 | - | 0 | rr | 41 | 92 | 39 | 6 | 5 | 2 | · | 9+ | 10 | 1800 | 1 | * |
| *Birr Castle | 92·8 | +2 | N | 1 | b | 41 | 92 | 39 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| Valentia Obsy. | 93·1 | 0 | S'W | 2 | c-bc/r | 44 | 92 | 42 | 9 | 3 | - | 3 | 4-6 | 7-8 | 2500 | 1 | 4 |
| Roches Point | 92·5 | 0 | W'S | 1 | bc/pr | 47 | 85 | 43 | 8 | 3 | - | 3 | 4-6 | 4-6 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| Stations | Weather (39) 7h.—13h. 25th | (40) 13h.—18h. 25th | (41) 18h. 25th to 1h. 26th | (42) 1h.—7h. 26th |
|---|---|---|---|---|
| London (Kew) | prpmrc⊕ | rrqRr | bcb | b,ciror |
| Croydon | ccprc | crr | crorbcmdb | bpr.o |
| S. Farnborough | bcprc | cRmoc | bbcc | cprobciro |
| Boscombe Down | bccprc | crrcbc | bbc | bcc |
| Thorney Island | bcproc | crrcbc | bccpro | pcroro |
| Lympne | cPRpro | crcmocr | cmorR | cprocido |
| Manston | cpropr | cprcycrr | RRb | proPR |
| Shoeburyness | cirobc | bcerr | crrbc | bccpr |
| Felixstowe | cbccpr | ccir | b | bbccir |
| Gorleston | bccpr | pr,bccq | cbcbl | bbccw |
| Mildenhall | cbc | cirorr | crrmob | bcc |
| Cranwell | ccmoc | crrmo | b | bbcc |
| Birmingham | bcciro | oRRH | prob | bbc |
| Upper Heyford | cpciro | cirorrc | cb | bbccmo |
| Ross-on-Wye | bccr | rrbc | bc | bccpc |
| Hartland Point | crrc | cpr | cprcql | cprir |
| Bristol | bccroro | romorRcbc | b,cpr,bcc | bccproc |
| Portland Bill | orr | c | c | oR |
| Plymouth | cpr iro mo | cprobc | bcc | cwiro |
| The Lizard | rrprc | bcaq | bcc | cprro |
| Scilly (St. Mary's) | crrp | cpc | cpbc | bcc |
| Guernsey | | | | |
| Pembroke | ciro | cprq | cprotl | bc |
| Holyhead (Valley) | cprrr | croro | rorocroro | roprcbc |
| Chester (Sealand) | bcmororo | roroRroc | cpro | crorobc |
| Manchester | bccmo | irorr | ciro | irororo |
| Spurn Head | c | cqir | bc | bcq |
| Catterick | cmocmocm | cmociro f | rfcroro | cmoc |
| Tynemouth | bcc | c | orrtl | cp |
| St. Abbs Head | bcc | c | cprcrr | cmocrr |
| Leuchars | cproc | c | crrromo | crrmo |
| Renfrew (Abbots I.) | cmopro c | czomoiro | cmororo | cmororociro |
| Eskdalemuir | bcc | croromorr | crr | crroiro |
| Point of Ayre | rrc | Rrr | rr | rr |
| Tiree | pcobcjp | cjpbc | bcc | cbc |
| Stornoway | cirpr | cpr | cbpr | bcPR |
| Dalwhinnie | c | c | * | ciroO |
| Aberdeen | cfod.uzc | cbcmof | cfbcm | bcmcrom |
| Wick | bc | bcv | bcpro⊕ | ciroc |
| Sumburgh | cprobc | bcprobc | cproc | cbcroroc |
| Blacksod Point | r | pr | pr | pr |
| Malin Head | r | pr | pr | r |
| Aldergrove | c | ciroroco | crrroroc | r |
| *Birr Castle | c | bc | * | b |
| Valentia Obsy. | pr | pr | pr | bc |
| Roches Point | bc | pr | b | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 26th October 1942

| Districts | Forecast |
|---|---|
| 1 S.E. England | As 3. |
| 2 E. England | Wind variable becoming Easterly moderate, backing North; becoming dull with some rain and drizzle; probably some brighter intervals tomorrow; cold. |
| 3 E. Midlands | Wind East to Southeast fresh to strong locally with gale on coasts, becoming West or Northwest and moderating by tomorrow; dull and rainy today; bright periods probably with some showers tomorrow; cold. |
| 4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands | Winds mainly between North and Northwest light to moderate; bright periods; some local showers; rather cold or cold; with local frost at night. |
| 10 N.E. England, 11 S.E. Scotland ↑ | Fresh Northerly winds backing Northwest moderating; cloudy or dull; occasional rain or drizzle; cold. |
| 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland | As 4-9. |
| 14 Mid Scotland, 15 N.E. Scotland ↑ | Wind Northeast to East backing North, strong to gale at times on coasts; dull; rain at times; cold. |
| 16 Orkneys and Shetlands | As 14-15. |
| 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland | As 4-9. |

### GENERAL INFERENCE

A deep depression off East Scotland will drift north and slowly fill up, whilst another deepening disturbance over the western English Channel will move to the North Sea. There will be considerable rainfall in Southeast and East England and in Northeast Scotland but elsewhere weather will be showery with bright periods. Conditions will be cold to rather cold generally and there will be coastal gales on parts of the East Coast.

### FURTHER OUTLOOK

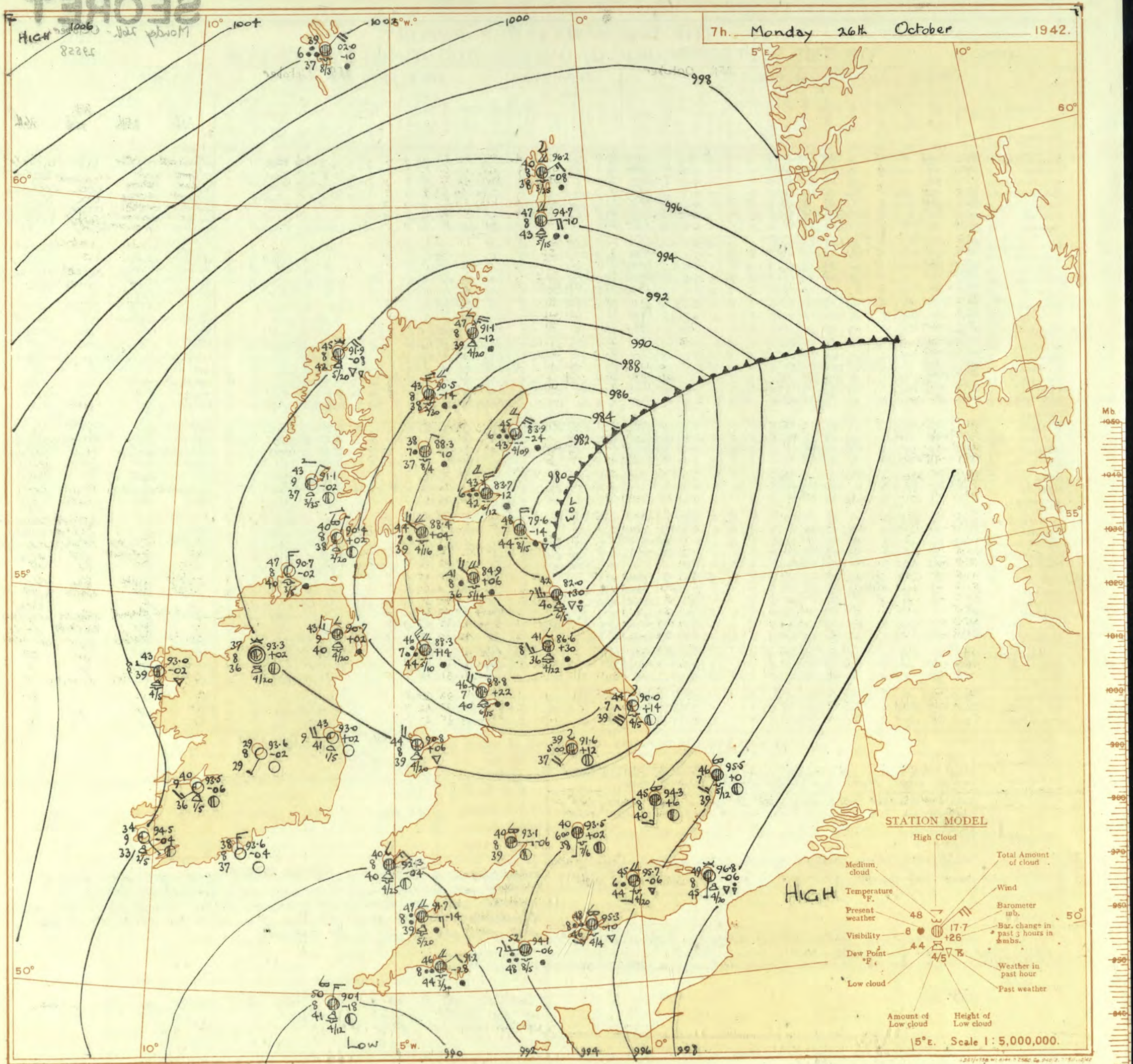
Continuing cold in most districts. Probably rather showery with bright periods, but the situation continues very disturbed.

↑ Gale warning in operation in districts 11 & 15 time of issue 0200 26·10·42

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

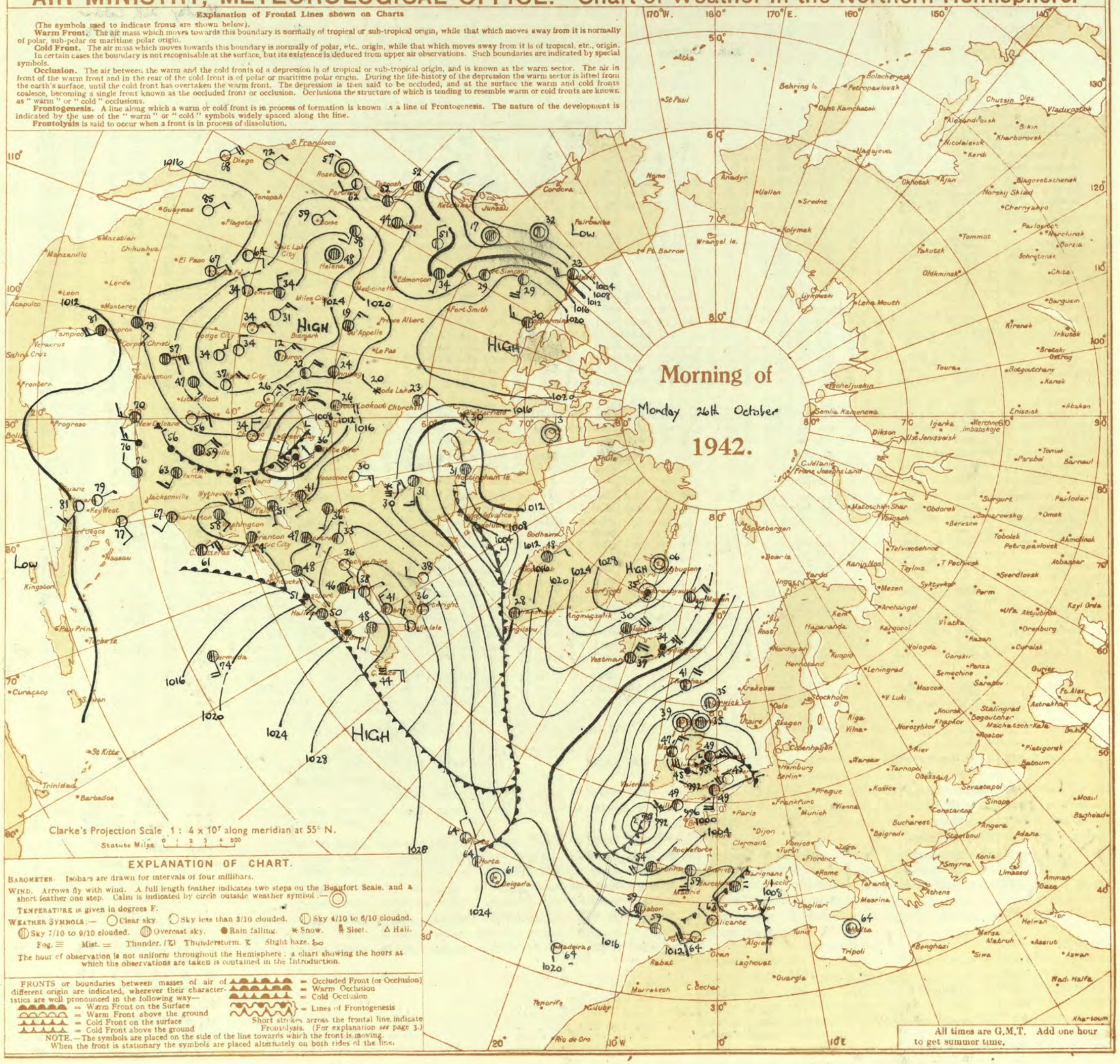
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 one hour to get summer time.

Page 4. BRITISH SECTION

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

Monday 26th October 1942

No. 29558

## OBSERVATIONS at 1 hr. G.M.T. 26th October

| 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 | * | * | * | * | * | 46 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 96.9 | +8 | S | 4 | b | 42 | 92 | 40 | 8 | 2 | 6 | – | Tr | 1 | 2000 |
| | S. Farnborough | 226 | 96.0 | +8 | SW | 3 | c-bc | 44 | 85 | 39 | 8 | 3 | – | – | 4-6 | 7-8 | 2500 |
| | Boscombe Down | 417 | 96.0 | +2 | S'W | 2 | b-bc | 42 | 85 | 39 | 8 | 3 | – | 3 | 1 | 2-3 | 2000 |
| | Thorney Island | 10 | 96.9 | +6 | WSW | 4 | pr | 50 | 85 | 45 | 3 | 3 | – | – | 7-8 | 7-8 | 4000 |
| | Lympne | 283 | 97.8 | +10 | WSW | 3 | pr | 44 | 85 | 44 | 8 | 9 | 6 | 3 | 7-8 | 7-8 | 2000 |
| | Manston | 154 | 97.9 | +14 | SSW | 1 | b | 43 | 85 | 38 | 8 | 2 | – | 3 | 2-3 | 2-3 | 2500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 96.0 | +20 | SW'S | 4 | b | 48 | 75 | 41 | 7 | – | – | – | 0 | 0 | – |
| | Gorleston | 5 | 95.9 | +40 | SW | 4 | b | 45 | 85 | 39 | 7 | 9 | – | – | 0 | 0 | – |
| | Mildenhall | 15 | 93.8 | +18 | SW'S | 5 | b | 44 | 85 | 39 | 8 | – | – | – | 0 | 0 | – |
| | Cranwell | 203 | 90.8 | +20 | SSW | 5 | b | 42 | 85 | 37 | 8 | – | – | – | 0 | 0 | – |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 93.8 | +10 | SW | 3 | b | 41 | 92 | 38 | 7 | 1 | 4 | – | 1 | 1 | 4000 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 93.7 | +2 | W | 5 | c-bc | 50 | 75 | 41 | 8 | 3 | 6 | – | 4-6 | 7-8 | 1500 |
| | Bristol | 209 | 95.3 | +6 | SW'W | 4 | b-bc | 44 | 85 | 39 | 8 | 3 | 6 | 3 | 1 | 2-3 | 4000 |
| | Portland Bill | 32 | 96.5 | +2 | S | 5 | c | 52 | 85 | 48 | 8 | 2 | – | – | 9 | 9 | 4000 |
| | Plymouth | 82 | 96.1 | 0 | WSW | 5 | c | 51 | 75 | 43 | 8 | 8 | 4 | 7 | 2-3 | 10 | 2500 |
| | The Lizard | 240 | 95.2 | -10 | W | 4 | c | 51 | 75 | 42 | 8 | 8 | 1 | – | 7-8 | 9+ | 1500 |
| | Scilly (St. Mary's) | 163 | 94.3 | -10 | WSW | 3 | bc | 49 | 75 | 40 | 8 | 8 | 4 | 3 | 4-6 | 4-6 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 98.6 | +8 | NW | 3 | c-bc | 48 | 75 | 39 | 8 | 8 | 7 | – | 4-6 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 32 | 89.7 | +18 | WNW | 6 | roro | 45 | 85 | 42 | 6 | 6 | 1 | – | 9 | 10 | 1000 |
| | Chester (Sealand) | 16 | 88.2 | +10 | SWW | 3 | iro | 45 | 75 | 40 | 7 | 5 | 2 | – | 9 | 10 | 2500 |
| 8 | Manchester | 235 | 87.6 | +6 | S'E | 5 | iro | 43 | 85 | 39 | 8 | 5 | 3 | – | 7-8 | 10 | 1800 |
| 10 | Spurn Head | 29 | 89.3 | +20 | SW'S | 6 | b | 44 | 85 | 39 | 7 | 1 | – | – | Tr | Tr | 2500 |
| | Catterick | 175 | 84.4 | -6 | WSW | 3 | 3/f | 44 | 92 | 42 | 5 | 6 | 2 | – | 7-8 | 10 | 1200 |
| | Tynemouth | 108 | 80.5 | – | ENE | 5 | c/r | 49 | 85 | 47 | 7 | 8 | – | – | 9 | 9 | 1500 |
| 11 | St. Abbs Head | 280 | 86.0 | -38 | NE | 4 | rr | 46 | 92 | 44 | 7 | 8 | – | – | 10 | 10 | 1500 |
| | Leuchars | 36 | 87.9 | -34 | ENE | 3 | rr | 46 | 97 | 45 | 6 | 5 | – | – | 10 | 10 | 1800 |
| 12 | Renfrew (Abbots I.) | 19 | 89.3 | -22 | N'E | 3 | roro | 43 | 92 | 40 | 6 | 5 | – | – | 10 | 10 | 1000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 85.0 | +2 | NE | 6 | rr | 48 | 97 | 44 | 7 | 6 | 2 | – | 7-8 | 10 | 1000 |
| 13A | Tiree | 22 | 91.9 | -8 | NE | 1 | c-bc | 42 | 85 | 37 | 9 | 7 | 3 | – | 7-8 | 7-8 | 4000 |
| 13B | Stornoway | 80 | 93.3 | 0 | – | 0 | b | 39 | 92 | 36 | 8 | 2 | – | – | 1 | 1 | 3000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 91.8 | -24 | E'N | 4 | c/f | 44 | 92 | 42 | 7 | 5 | 2 | – | 4-6 | 10 | 2000 |
| | Wick | 114 | 93.1 | -20 | – | 0 | c | 35 | 92 | 34 | 9 | 1 | – | 7 | Tr | 10 | 2000 |
| 16 | Sumburgh | 19 | 97.0 | -6 | SE | 3 | c-bc/pr | 46 | 85 | 42 | 9 | 8 | 3 | – | 7-8 | 7-8 | 3000 |
| 17 | Blacksod Point | 18 | 94.1 | -2 | W | 2 | c-bc/pr | 42 | 85 | 38 | 8 | 8 | – | – | 7-8 | 7-8 | 2500 |
| 18 | Malin Head | 84 | 91.3 | -2 | N'E | 3 | c-bc | 47 | 85 | 43 | 8 | 2 | 2 | – | 4-6 | 7-8 | 1500 |
| | Aldergrove | 268 | 90.5 | -2 | WNW | 3 | c/r | 42 | 92 | 40 | 8 | 8 | 2 | – | 7-8 | 10 | 2500 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 95.2 | +6 | NE'E | 1 | bc | 38 | 92 | 36 | 9 | 8 | – | – | 4-6 | 4-6 | 2500 |
| | Roches Point | 22 | 94.3 | +2 | N | 4 | b | 42 | 92 | 40 | 8 | 3 | – | – | 1 | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 26th October — 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 25th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 94.8 | -6 | S'W | 1 | roro | 46 | 92 | 43 | 6 | 6 | 2 | – | 7-8 | 10 | 1500 | 1 | * | 54 | 44 | 35 | 9 | 0.1 | 2.3 |
| Croydon | 95.7 | -6 | S | 2 | iro | 45 | 97 | 44 | 6 | 5 | 2 | – | 4-6 | 9+ | 2000 | 1 | * | 56 | 42 | 38 | 11 | 0.5 | 4.0 |
| S. Farnborough | 94.3 | -4 | SE | 2 | c/r | 45 | 92 | 43 | 6 | 5 | 2 | – | 9 | 10 | 1600 | 1 | * | 54 | 42 | 35 | 8 | 0.6 | 3.6 |
| Boscombe Down | 94.3 | -10 | SE'E | 1 | iro | 42 | 97 | 41 | 8 | – | 2 | – | 0 | 10 | – | 1 | * | 53 | 39 | 32 | 15 | 0.1 | 1.2 |
| Thorney Island | 95.3 | -10 | SSW | 3 | roro | 48 | 92 | 46 | 8 | 5 | 7 | – | 4-6 | 10 | 1500 | 1 | * | 56 | 45 | 38 | 8 | 5 | * |
| Lympne | 96.1 | -8 | SSW | 3 | c-bc | 50 | 85 | 45 | 7 | 2 | 7 | 2 | 2-3 | 7-8 | 2000 | 1 | §4 | 55 | 41 | 32 | 5 | 4 | 3.2 |
| Manston | 96.8 | -6 | S | 1 | c-bc/pr | 49 | 85 | 45 | 8 | 2 | 6 | 3 | 4-6 | 7-8 | 2000 | 1 | * | 55 | 42 | 37 | 3 | 5 | * |
| Shoeburyness | 96.5 | -4 | SSW | 3 | iro | 49 | 85 | 45 | 8 | 5 | 2 | – | 9+ | 10 | 2500 | 1 | * | 56 | 46 | 39 | 3 | 9 | 3.3 |
| Felixstowe | 95.6 | -2 | S | 4 | iro | 50 | 75 | 42 | 7 | 5 | 2 | – | 7-8 | 10 | 4000 | 1 | 4 | 56 | 45 | 42 | 1 | 2 | 4.1 |
| Gorleston | 95.5 | 0 | SW | 3 | c | 46 | 75 | 39 | 7 | 5 | 7 | – | 7-8 | 10 | 1200 | 1 | 3 | 55 | 44 | 38 | 2 | 4 | 4.7 |
| Mildenhall | 94.3 | +6 | S | 3 | c | 45 | 85 | 40 | 8 | – | 7 | – | 0 | 9+ | – | 1 | * | 55 | 43 | 37 | 2 | 3 | 4.6 |
| Cranwell | 92.0 | +12 | SW'S | 5 | c-bc | 42 | 85 | 37 | 7 | – | – | 2 | 0 | 7-8 | – | 1 | * | 52 | 41 | 38 | 2 | 2 | 3.4 |
| Birmingham | 93.2 | +4 | SSW | 3 | c | 39 | 92 | 37 | 7 | – | 1 | – | 0 | 9 | – | 1 | * | 48 | 38 | 33 | 17 | Tr | 0.8 |
| Upper Heyford | 93.5 | +2 | S | 1 | zo | 40 | 92 | 38 | 6 | 5 | – | – | 9+ | 9+ | 4000 | 1 | * | 50 | 39 | 33 | 14 | | * |
| Ross-on-Wye | 93.1 | -6 | E | 1 | c | 40 | 97 | 39 | 8 | – | 7 | – | 0 | 9+ | – | 1 | * | 49 | 40 | 33 | 9 | 0.2 | 0.8 |
| Hartland Point | 91.7 | -14 | E | 3 | ir | 47 | 75 | 38 | 8 | 8 | 2 | – | 7-8 | 9+ | 2000 | 1 | 3 | 50 | 43 | 41 | 7 | 1 | 1.3 |
| Bristol | 93.8 | -6 | – | 0 | cfg | 42 | 92 | 40 | 7 | 2 | 7 | – | Tr | 9 | 2500 | 1 | * | 51 | 41 | 37 | 12 | 2 | 0.5 |
| Portland Bill | 94.1 | -6 | W | 3 | rr | 52 | 85 | 48 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | 5 | 55 | 49 | * | 5 | 6 | * |
| Plymouth | 91.2 | -28 | ENE | 2 | roro | 46 | 97 | 44 | 8 | 5 | 2 | – | 2-3 | 10 | 3000 | 1 | 2 | 53 | 44 | 40 | 13 | 0.4 | 2.0 |
| The Lizard | 90.5 | -20 | ESE | 3 | roro | 47 | 92 | 45 | 8 | 5 | 2 | – | 9 | 10 | 1000 | 1 | 4 | 52 | 45 | * | 7 | 1 | 3.0 |
| Scilly (St. Mary's) | 90.1 | -18 | N'E | 3 | c | 50 | 75 | 41 | 8 | 8 | 7 | – | 4-6 | 10 | 1200 | 1 | 3 | 54 | 47 | * | 6 | 17 | 4.7 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 92.3 | -4 | NE | 3 | c | 40 | 97 | 40 | 8 | 8 | 4 | – | 4-6 | 10 | 2500 | 1 | 3 | 52 | 39 | * | 32 | 1 | 1.8 |
| Holyhead (Valley) | 90.8 | +6 | NWW | 4 | bc | 44 | 85 | 39 | 8 | 2 | – | – | 4-6 | 4-6 | 2000 | 1 | 3 | 48 | 43 | 38 | 42 | 2 | * |
| Chester (Sealand) | 90.6 | +12 | WSW | 2 | bbc | 45 | 85 | 39 | 6 | 5 | – | – | 2-3 | 2-3 | 2000 | 1 | * | 48 | 44 | 38 | 7 | 1 | 0.3 |
| Manchester | 90.5 | +22 | S'E | 4 | roro | 43 | 92 | 39 | 6 | 5 | 2 | – | 7-8 | 10 | 1500 | 1 | * | 48 | 41 | 39 | 3 | 1 | * |
| Spurn Head | 90.0 | +14 | SSW | 6 | bcq | 44 | 85 | 39 | 7 | 5 | – | 4 | 4-6 | 4-6 | 2500 | 0 | 5 | 52 | 43 | * | Tr | 5 | 4.4 |
| Catterick | 86.6 | +30 | W'S | 3 | c-bc | 41 | 85 | 36 | 8 | 8 | 4 | – | 4-6 | 7-8 | 2200 | 1 | * | 47 | 40 | 37 | 2 | 21 | 2.0 |
| Tynemouth | 82.0 | +30 | W | 5 | c/pr | 42 | 92 | 40 | 7 | 8 | – | – | 9 | 9 | 2500 | 1 | 3 | 50 | 41 | 40 | – | 30 | * |
| St. Abbs Head | 79.6 | -14 | N | 4 | c/pr | 48 | 85 | 44 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | 4 | 48 | 42 | * | – | 13 | * |
| Leuchars | 83.7 | -12 | N | 4 | rr | 43 | 97 | 42 | 6 | 6 | 2 | – | 9 | 10 | 1200 | 1 | * | 50 | 43 | 37 | 1 | 9 | 1.3 |
| Renfrew (Abbots I.) | 88.4 | +4 | NW'W | 4 | iro | 44 | 85 | 39 | 7 | 5 | 2 | – | 4-6 | 10 | 1600 | 2 | * | 48 | 42 | 41 | Tr | 4 | 0.7 |
| Eskdalemuir | 84.9 | +6 | NW | 4 | iro | 41 | 85 | 36 | 8 | 5 | 2 | – | 7-8 | 10 | 1400 | 1 | * | 44 | 39 | 38 | 0.1 | 18 | 1.3 |
| Point of Ayre | 88.3 | -14 | N'W | 5 | rr | 46 | 92 | 44 | 7 | 6 | 2 | – | 7-8 | 10 | 1000 | 1 | 5 | 48 | 43 | * | 23 | 15 | 0.1 |
| Tiree | 91.1 | -2 | NNE | 2 | bc | 43 | 75 | 37 | 9 | 1 | – | 5 | 2-3 | 4-6 | 3500 | 1 | 2 | 51 | 38 | * | Tr | – | 2.5 |
| Stornoway | 91.9 | -8 | NE | 4 | c-bc/pr | 45 | 85 | 42 | 8 | 2 | 6 | – | 7-8 | 9 | 2000 | 1 | 2 | 48 | 37 | * | 0.5 | 2 | 2.8 |
| Dalwhinnie | 88.3 | -10 | NNE | 2 | iro | 38 | 92 | 37 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * | 45 | 34 | 29 | – | 0.6 | 4.2 |
| Aberdeen † | 83.9 | -24 | NE | 5 | ry | 45 | 92 | 43 | 6 | 6 | 2 | – | 4-6 | 10 | 900 | 1 | 3 | 47 | 36 | 32 | Tr | 12 | 0.4 |
| Wick | 91.1 | -12 | NE'N | 5 | c | 47 | 75 | 39 | 8 | 2 | 1 | – | 4-6 | 10 | 2000 | 1 | * | 49 | 34 | 30 | – | 0.3 | * |
| Sumburgh | 94.7 | -10 | E | 4 | c-bc/r | 47 | 85 | 43 | 8 | 8 | 2 | – | 7-8 | 7-8 | 1500 | 1 | 2 | 49 | 41 | 30 | 1 | 2 | 5.0 |
| Blacksod Point | 93.0 | -2 | W'N | 1 | bc | 43 | 85 | 39 | 8 | 8 | – | – | 4-6 | 4-6 | 2500 | 1 | 2 | 53 | 41 | * | 1 | 0.4 | * |
| Malin Head | 90.7 | -2 | N | 3 | bc | 47 | 75 | 40 | 8 | 4 | – | – | 2-3 | 2-3 | 2500 | 2 | 3 | 49 | 47 | 43 | 2 | 1 | 4.8 |
| Aldergrove | 90.7 | +2 | WNW | 3 | c | 43 | 85 | 40 | 9 | 8 | 1 | – | 4-6 | 10 | 2000 | 1 | * | 44 | 40 | 40 | 4 | | 0.0 |
| Birr Castle | 93.6 | -2 | SSW | 1 | b | 29 | 97 | 29 | 8 | – | – | – | 0 | 0 | – | 1 | * | 50 | 28 | 23 | – | – | 5.6 |
| Valentia Obsy. | 94.5 | -4 | SE'E | 1 | b | 34 | 97 | 33 | 9 | 2 | – | – | 1 | 1 | 2500 | 1 | 1 | 49 | 33 | 28 | 3 | 0.2 | 1.9 |
| Roches Point | 93.6 | -4 | N | 3 | b | 38 | 97 | 37 | 8 | – | – | – | 0 | 0 | – | 2 | 2 | 52 | 37 | * | 0.1 | Tr | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 25th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 26th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 30 | 01952 | 16312 | 50 | 01754 | 12114 | 36 | 10954 | 04314 | 22 | 02854 | 04588 |
| 115 | | | | | | | 56 | 01954 | 08224 | | | |
| 203 | 80 | 02945 | 16425 | 84 | 01954 | 16415 | 80 | 01959 | 12313 | 27 | 02952 | 08315 |
| 206 | 10 | 01961 | 24101 | 50 | 01963 | 12204 | 50 | 02864 | 32128 | 52 | 22862 | 31368 |
| 210 | 16 | 01953 | 16214 | 06 | 01890 | 10214 | 41 | 02862 | 11108 | 62 | 61645 | 38588 |
| 220 | 70 | 01954 | 22304 | 50 | 01854 | 20105 | | | | 53 | 01854 | 03214 |
| 230 | 87 | 02956 | 00086 | 47 | 01954 | 00084 | 57 | 02963 | 06228 | 62 | 02965 | 32227 |
| 245 | 86 | 02764 | 22326 | 8- | 81755 | 02128 | 62 | 25645 | 04568 | 62 | 64635 | 35568 |
| 260 | 11 | 02963 | 18288 | 50 | 62555 | 12228 | 52 | 66556 | 34368 | 52 | 62854 | 32468 |
| 278 | 87 | 61956 | 13217 | | | | 62 | 62635 | 32568 | 52 | 62745 | 28468 |
| 279 | 42 | 03762 | 13488 | 6- | 62538 | 05468 | 02 | 62688 | 38568 | 57 | 61755 | 27468 |
| 285 | | | | | | | | | | 6- | 63638 | 24568 |
| 288 | 02 | 02790 | 14328 | | | | 5- | 64648 | 20468 | | | |
| 575 | 5- | 02847 | 00027 | 86 | 25865 | 02186 | 87 | 01851 | 02214 | 36 | 08854 | 00014 |
| 301 | 62 | 61590 | 13488 | 62 | 6454- | 14468 | 80 | 25745 | 57587 | 8- | 22746 | 61466 |
| 321 | 17 | 02761 | 14327 | 52 | 62664 | 12468 | 04 | 01890 | 21661 | 54 | 01753 | 31424 |
| 299 | 56 | 01763 | 20414 | 8- | 22757 | 18567 | 80 | 02745 | 22615 | 8- | 82747 | 22527 |
| 292 | 58 | 05561 | 11217 | 52 | 62665 | 10368 | 50 | 02754 | 20424 | 6- | 02846 | 21266 |
| 310 | | | | | | | | | | -- | 02626 | 24426 |
| 614 | 27 | 02765 | 14387 | 52 | 64545 | 10368 | 00 | 05690 | 20420 | 00 | 05590 | 20415 |

| III | 13h. G.M.T. 25th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN | 01h. G.M.T. 26th October $C_L C_M$ | $wwVhN_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | $wwVhN_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 338 | 62 | 64636 | 20268 | . | | | 36 | 02855 | 23526 | 36 | 01853 | 00014 |
| 334 | | | | | | | | | | -- | 02653 | 24314 |
| 340 | 62 | 15652 | 11428 | 53 | 61846 | 20267 | 5- | 01861 | 55511 | | | |
| 136 | 14 | 02852 | 16216 | 02 | 62768 | 10468 | 00 | 00890 | 21460 | 07 | 02890 | 18416 |
| 336 | | | | | | | | | | 33 | 01753 | 24315 |
| 350 | 57 | 25755 | 14387 | 67 | 22645 | 39568 | 00 | 00890 | 22400 | 07 | 02790 | 18217 |
| 368 | 52 | 62645 | 18468 | 80 | 01854 | 57584 | 86 | 81744 | 21485 | 81 | 02857 | 28185 |
| 379 | 82 | 02955 | 12568 | 5- | 22837 | 53467 | 80 | 01854 | 20435 | 07 | 02890 | 18287 |
| 390 | 26 | 25664 | 14385 | 62 | 64427 | 47668 | 00 | 05690 | 20410 | 5- | 05568 | 18328 |
| 382 | 97 | 82954 | 43488 | 5- | 22764 | 21374 | [illegible] | 01861 | 20213 | 52 | 02766 | 00027 |
| 488 | 87 | 02855 | 18615 | 82 | 82648 | 20768 | 50 | 81645 | 22685 | 87 | 25845 | 20687 |
| 430 | 52 | 02854 | 49587 | 84 | 05634 | 57524 | 80 | 02755 | 20325 | 52 | 61756 | 08168 |
| 409 | 27 | 25845 | 26487 | 30 | 25953 | 23583 | 36 | 02854 | 17385 | 82 | 02855 | 07328 |

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 October
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 * | prpmrc⊕ | rrqRR | bcbcir,ro |
| Croydon | ccprc | crr | crorobprco |
| Greenwich | bbc ⊕p | becqrR | berr |
| Camden Square | c | c | * |
| *Kensington | becp | cpbc | * |
| Hampstead | beor | or | beor |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·1 Time 13-20h 25th
Min. <0·1 Time 0-3h 26th

| 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 | 54 | 44 | 35 | 9 | 0.1 | 2.3 | * | * |
| Croydon | 56 | 42 | 38 | 11 | 0.5 | 4.0 | * | * |
| Greenwich | 56 | 42 | 34 | 7 | 2 | 3.8 | 73 | 95 |
| Westminster | 56 | 45 | 39 | 8 | | | 74 | 94 |
| Regents Park | 55 | 44 | 40 | 7 | 5 | | 60 | 92 |
| Camden Square | 55 | 44 | 37 | 9 | | * | * | 95 |
| Kensington | 56 | 44 | 32 | 8 | 5 | | 99 | 92 |
| Hampstead | 52 | 42 | 36 | 10 | 2 | | * | 99 |

**SECRET**

Page 1 BRITISH SECTION

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

Tuesday 27th October 1942

No. 29559

## OBSERVATIONS at 13h. G.M.T. 26th October

| 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) | 86·8 | -58 | NE | 3 | roro | 44 | 92 | 42 | 4 | 6 | 2 | - | 9 | 10 | 1500 |
| | Croydon | 87·7 | -62 | SE | 1 | rrf | 44 | 97 | 44 | 3 | 6 | 2 | - | 9+ | 10 | 600 |
| | S. Farnborough | 86·6 | -60 | NE | 3 | ido | 43 | 92 | 41 | 5 | 5 | 7 | - | 10 | 10 | 1000 |
| | Boscombe Down | 86·9 | -50 | NE | 4 | roro | 42 | 97 | 41 | 6 | 5 | 2 | - | 4-6 | 10 | 800 |
| | Thorney Island | 86·0 | -62 | NE | 3 | rr | 45 | 92 | 43 | 6 | 6 | 2 | - | 10 | 10 | 1500 |
| | Lympne | 88·1 | -64 | SSE | 5 | rr | 53 | 97 | 52 | 5 | 6 | 2 | - | 9+ | 10 | 900 |
| | Manston | 88·5 | -66 | SE'S | 4 | RR | 53 | 85 | 50 | 5 | 5 | - | - | 10 | 10 | 500 |
| 2 | Shoeburyness | 88·8 | -20 | SSE | 4 | r.r. | 52 | 92 | 49 | 6 | 5 | - | - | 10 | 10 | 1300 |
| | Felixstowe | 88·6 | -62 | E'S | 5 | rr | 49 | 92 | 48 | 5 | 6 | 2 | - | 9 | 10 | 900 |
| | Gorleston | 91·6 | -38 | S | 3 | roro | 49 | 85 | 44 | 6 | 6 | - | - | 10 | 10 | 1000 |
| | Mildenhall | 90·6 | -30 | NE'E | 2 | rr | 45 | 92 | 43 | 6 | 5 | 2 | - | 4·6 | 10 | 800 |
| | Cranwell | 90·7 | -24 | S'E | 3 | Zo | 46 | 85 | 42 | 6 | - | 2 | - | 0 | 10 | - |
| 3 | Birmingham | 89·0 | -24 | NE | 2 | of | 46 | 85 | 42 | 2 | 5 | - | - | 10 | 10 | 450 |
| | Upper Heyford | 88·7 | -52 | E | 2 | roro | 44 | 85 | 39 | 6 | 1 | 2 | - | 1 | 10 | 2500 |
| 4 | Ross-on-Wye | 88·5 | -36 | NNW | 2 | c | 45 | 85 | 41 | 8 | 5 | 2 | - | 1 | 10 | 1500 |
| 5 | Hartland Point | 89·3 | -14 | ENE | 3 | c | 48 | 75 | 41 | 8 | 8 | 7 | - | 7·8 | 9+ | 2000 |
| | Bristol | 88·5 | -40 | NNE | 2 | roro | 44 | 97 | 43 | 6 | 5 | 2 | - | 4·6 | 10 | 1500 |
| | Portland Bill | 85·4 | -60 | NE | 5 | RR | 44 | 92 | 42 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Plymouth | 88·5 | -10 | N'W | 3 | roro | 46 | 92 | 44 | 7 | 1 | 2 | - | 1 | 10 | 1500 |
| | The Lizard | 89·6 | 0 | N'E | 3 | rr | 47 | 97 | 47 | 8 | 8 | 2 | - | 7·8 | 10 | 1000 |
| | Scilly (St. Mary's) | 90·8 | +6 | N'W | 4 | c | 51 | 65 | 40 | 8 | 8 | 7 | - | 7·8 | 10 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 90·1 | -10 | N'E | 3 | c | 49 | 75 | 40 | 8 | 8 | 6 | 1 | 4-6 | 9+ | 2500 |
| 7 | Holyhead (Valley) | 90·0 | -14 | N'W | 2 | pr | 46 | 85 | 42 | 7 | 8 | - | - | 10 | 10 | 2000 |
| | Chester (Sealand) | 90·1 | -10 | NW | 2 | iro | 47 | 85 | 43 | 6 | 5 | 2 | - | 4-6 | 10 | 2000 |
| 8 | Manchester | 89·7 | -14 | S | 3 | Zo | 46 | 85 | 42 | 6 | 5 | 7 | - | 4-6 | 10 | 4000 |
| 10 | Spurn Head | 91·3 | -8 | S'W | 4 | c | 46 | 85 | 40 | 7 | 5 | 2 | - | 4-6 | 9+ | 2500 |
| | Catterick | 89·1 | -2 | W | 2 | c | 48 | 65 | 38 | 8 | 7 | - | - | 9+ | 9+ | 2000 |
| | Tynemouth | 87·1 | +6 | WSW | 3 | Zo | 47 | 75 | 40 | 6 | 2 | - | - | 7·8 | 7·8 | 2500 |
| 11 | St. Abbs Head | 84·9 | +12 | W | 3 | c | 45 | 85 | 42 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| | Leuchars | 84·9 | +6 | NNW | 3 | c-bc | 49 | 85 | 45 | 8 | 8 | 6 | 8 | 4-6 | 7·8 | 3000 |
| 12 | Renfrew (Abbots I.) | 88·3 | -6 | WNW | 3 | c/r | 48 | 75 | 40 | 8 | 5 | 2 | - | 4-6 | 9+ | 2000 |
| | Eskdalemuir | 86·7 | +4 | NW'W | 3 | c | 44 | 85 | 38 | 8 | 5 | 2 | - | 4-6 | 9 | 2200 |
| | Point of Ayre | 88·7 | -4 | N'W | 3 | c | 50 | 75 | 43 | 8 | 8 | - | 6 | 4-6 | 9+ | 3500 |
| 13A | Tiree | 90·0 | -14 | NNE | 3 | c | 49 | 65 | 39 | 9 | 2 | 4 | 7 | Tr. | 9 | 3000 |
| 13B | Stornoway | 92·9 | -6 | N | 4 | c/pr | 46 | 92 | 44 | 8 | 8 | 7 | - | 7·8 | 10 | 2000 |
| 15 | Dalwhinnie | 88·0 | -6 | N | 3 | c | 41 | 75 | 36 | 8 | 5 | 2 | - | 4-6 | 9+ | 2500 |
| | Aberdeen | 84·2 | +2 | N'E | 2 | bc | 49 | 75 | 41 | 8 | 8 | - | 5 | 4-6 | 4-6 | 2000 |
| | Wick | 88·7 | -22 | N'E | 6 | rr | 45 | 92 | 43 | 6 | 6 | - | - | 10 | 10 | 1000 |
| 16 | Sumburgh | 91·5 | -20 | NE'E | 7 | roro | 47 | 85 | 43 | 8 | 5 | 2 | - | 9 | 10 | 1500 |
| 17 | Blacksod Point | 91·9 | -12 | N | 1 | bc | 52 | 75 | 44 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 18 | Malin Head | 90·0 | -10 | NNW | 3 | c | 48 | 75 | 41 | 8 | 2 | - | - | 9 | 9 | 2500 |
| | Aldergrove | 89·8 | -14 | NW | 2 | c | 47 | 75 | 39 | 9 | 8 | 2 | - | 2-3 | 10 | 3000 |
| 19 | *Birr Castle | 91·6 | -18 | SW | 2 | bc | 50 | 65 | 39 | 8 | 4 | - | - | 4-6 | 4-6 | 1500 |
| 20 | Valentia Obsy. | 92·8 | -14 | WNW | 4 | c | 50 | 75 | 43 | 8 | 3 | - | - | 9+ | 9+ | 2500 |
| | Roches Point | 92·3 | -12 | N | 3 | b-bc | 51 | 75 | 44 | 9 | 2 | - | - | 2-3 | 2-3 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 26th October

| 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) | 82·6 | -10 | NNW | 2 | df | 47 | 97 | 46 | 2 | 6 | - | - | 10 | 10 | 1500 | 1 | • |
| Croydon | 82·6 | -18 | SSW | 2 | ir | 49 | 97 | 48 | 5 | 6 | 7 | - | 9 | 9+ | 1000 | 1 | • |
| S. Farnborough | 84·4 | +20 | NN'W | 4 | roro | 43 | 92 | 41 | 4 | 5 | - | - | 10 | 10 | 700 | 1 | • |
| Boscombe Down | 89·2 | +46 | NW | 5 | rr | 40 | 97 | 39 | 6 | 5 | 2 | - | 4-6 | 9+ | 400 | 1 | • |
| Thorney Island | 85·5 | +30 | WNW | 6 | ido | 43 | 92 | 41 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | • |
| Lympne | 86·3 | +6 | SW'S | 7 | c | 53 | 75 | 44 | 7 | 2 | 7 | - | 7-8 | 9 | 1500 | 1 | 3 |
| Manston | 85·3 | -2 | S'W | 5 | Zo | 54 | 65 | 44 | 6 | 3 | 7 | - | 1 | 2-3 | 2500 | 1 | • |
| Shoeburyness | 84·8 | -8 | S | 6 | c-bc | 54 | 65 | 43 | 8 | 5 | - | - | 7·8 | 7·8 | 1300 | 1 | • |
| Felixstowe | 85·2 | -12 | S | 6 | c | 56 | 75 | 46 | 7 | 2 | 7 | - | 2-3 | 9 | 1500 | 1 | 3 |
| Gorleston | 84·7 | -14 | S'W | 7 | c-bc/v | 56 | 92 | 53 | 6 | 6 | - | - | 7-8 | 7-8 | 1000 | 1 | |
| Mildenhall | 83·7 | -34 | NNN | 2 | c/r | 45 | 97 | 45 | 6 | 5 | - | 1 | 7·8 | 9 | 500 | 1 | • |
| Cranwell | 86·2 | -12 | N'W | 1 | roro | 43 | 97 | 42 | 5 | - | 2 | - | 10 | 10 | 700 | 1 | • |
| Birmingham | 87·1 | -6 | NW | 3 | rf | 43 | 92 | 41 | 3 | 6 | - | - | 10 | 10 | 450 | 1 | • |
| Upper Heyford | 87·0 | +6 | NNW | 5 | rr | 40 | 97 | 38 | 6 | 5 | 2 | - | 9 | 10 | 900 | 1 | • |
| Ross-on-Wye | 88·4 | +4 | WSW | 2 | c | 43 | 85 | 40 | 8 | 5 | 2 | - | 1 | 9+ | 2000 | 1 | • |
| Hartland Point | 91·8 | +20 | NW | 3 | bc | 48 | 65 | 38 | 8 | 2 | - | 4 | 4-6 | 4-6 | 2000 | 1 | 3 |
| Bristol | 98·9 | +18 | WSW | 2 | Zo | 43 | 92 | 40 | 6 | 5 | 7 | - | 4·6 | 9+ | 2500 | 1 | • |
| Portland Bill | 95·1 | +38 | NNW | 5 | c/r | 47 | 92 | 45 | 7 | 3 | - | - | 10 | 10 | 1500 | 1 | 6 |
| Plymouth | 92·5 | +32 | WNW | 3 | Zo | 47 | 75 | 40 | 6 | 7 | 7 | 8 | 4-6 | 7·8 | 2500 | 1 | 2 |
| The Lizard | 93·6 | +20 | NW | 3 | c-bc | 47 | 65 | 36 | 8 | 8 | 6 | - | 7·8 | 7·8 | 1500 | 1 | 3 |
| Scilly (St. Mary's) | 93·5 | +18 | WNW | 3 | c | 47 | 65 | 35 | 8 | 8 | 7 | 4 | 7·8 | 9+ | 1200 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 90·9 | +8 | WNW | 3 | c-bc | 49 | 75 | 40 | 8 | 2 | - | - | 7·8 | 7·8 | 2500 | 1 | 2 |
| Holyhead (Valley) | 89·0 | -4 | NW | 3 | c-bc | 44 | 85 | 39 | 8 | 2 | 6 | 2 | 2-3 | 7·8 | 1500 | 1 | 3 |
| Chester (Sealand) | 87·9 | -10 | W'N | 1 | iro | 45 | 97 | 44 | 6 | 5 | 2 | - | 7·8 | 10 | 1500 | 1 | • |
| Manchester | 87·2 | +8 | SW | 2 | Zo | 44 | 97 | 43 | 5 | 5 | 7 | - | 7·8 | 9+ | 2000 | 1 | • |
| Spurn Head | 84·1 | -36 | NE'N | 2 | ir | 45 | 92 | 43 | 7 | 8 | - | - | 10 | 10 | 1500 | 1 | 2 |
| Catterick | 87·3 | -6 | - | 0 | Zo | 45 | 85 | 42 | 6 | 5 | 7 | - | 7·8 | 10 | 2000 | 1 | • |
| Tynemouth | 87·0 | 0 | SW | 1 | m | 46 | 85 | 40 | 4 | 8 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| St. Abbs Head | 85·0 | +2 | W | 1 | rr | 46 | 92 | 44 | 7 | 6 | 2 | - | 7·8 | 10 | 2000 | 1 | 3 |
| Leuchars | 85·2 | +4 | NW | 2 | c-bc | 45 | 97 | 44 | 8 | 5 | 7 | 8 | 2-3 | 7·8 | 2500 | 1 | • |
| Renfrew (Abbots I.) | 87·2 | -2 | WNW | 2 | roro | 44 | 92 | 41 | 8 | 5 | 2 | - | 7·8 | 10 | 2500 | 2 | • |
| Eskdalemuir | 85·7 | 0 | NW | 2 | bc | 41 | 85 | 36 | 7 | 5 | - | - | 4-6 | 4-6 | 1200 | 1 | • |
| Point of Ayre | 86·9 | -6 | N | 4 | c | 48 | 85 | 43 | 8 | 8 | 3 | - | 7·8 | 9 | 2000 | 1 | 4 |
| Tiree | 89·5 | 0 | NNE | 4 | c/r | 47 | 75 | 39 | 8 | 5 | 7 | - | 4-6 | 10 | 2000 | 1 | |
| Stornoway | 89·7 | -6 | NNW | 4 | ir | 44 | 92 | 42 | 7 | 5 | 2 | - | 7·8 | 10 | 1500 | 2 | 2 |
| Dalwhinnie | 86·5 | 0 | NW | 2 | ir | 39 | 92 | 36 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | • |
| Aberdeen | 85·2 | +10 | WNW | 1 | c-bcf+ | 43 | 97 | 41 | 2 | 5 | - | 3 | 7·8 | 7·8 | 3000 | 1 | r |
| Wick | 87·4 | 0 | NNE | 4 | c-bc | 47 | 85 | 43 | 7 | 8 | 3 | - | 4-6 | 7·8 | 2000 | 1 | • |
| Sumburgh | 89·0 | -12 | NE'E | 7 | c | 47 | 92 | 45 | 8 | 5 | 7 | - | 7·8 | 9 | 1500 | 1 | 4 |
| Blacksod Point | 91·7 | +2 | NNW | 1 | b-bc | 45 | 85 | 41 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| Malin Head | 88·7 | -10 | N'W | 3 | c | 49 | 85 | 45 | 8 | 2 | 1 | - | 7·8 | 10 | 1500 | 2 | 3 |
| Aldergrove | 88·7 | -8 | NW'N | 2 | c | 45 | 85 | 40 | 8 | 8 | 2 | - | 2-3 | 10 | 2500 | 1 | • |
| *Birr Castle | 91·2 | +4 | " | 2 | pr | 44 | 85 | 40 | 7 | 9 | 2 | - | 7·8 | 9 | 800 | 1 | • |
| Valentia Obsy. | 92·0 | -2 | SE'E | 2 | c/phr | 44 | 85 | 40 | 9 | 3 | - | - | 9 | 9 | 2500 | 1 | 3 |
| Roches Point | 92·1 | +6 | WSW | 3 | c/pr | 47 | 85 | 43 | 8 | 3 | 7 | - | 4-6 | 9 | 1500 | 1 | 3 |

## PAST 24 HOURS.

| Stations | Weather 7h.–13h. 26th (39) | Weather 13h.–18h. 26th (40) | Weather 18h. 26th to 1h. 27th (41) | Weather 1h.–7h. 27th (42) |
|---|---|---|---|---|
| London (Kew) | crrrom | rRdodf | dfrovvoc | cvorrobc |
| Croydon | crrmcrrf | crrfcmocirormo | cirombm | bmoepbmo |
| S. Farnborough | cRmoRido | cidoromorrom | crombx | bxcpRbccm |
| Boscombe Down | cirocrro | rRrmoc | bmo | bbc |
| Thorney Island | crorRcrmo | crrcido | cdorobw | cbbrociro |
| Lympne | ccrrmo | cmorrc | pbcmow | cwpro |
| Manston | cRRmo | cmopro | bccmo | cpro |
| Shoeburyness | rrroro | ciroc | bc | bcc |
| Felixstowe | ciriforrmo | rrircmoc | cmocbc | bccbcc |
| Gorleston | diroro | prrcirq q | cq | cbc |
| Mildenhall | croromo | crrmocmo | rorocmob | bbcmox |
| Cranwell | ccmo | croromo | crorcbcm | crorombc |
| Birmingham | cdof | ofiro | frobc | bcb |
| Upper Heyford | idomororo | rrovvmo | bcmobmo | bmobbmox |
| Ross-on-Wye | c | cdocc | cbb | bbc |
| Hartland Point | rrcpr | cbc | bc | bccpbc |
| Bristol | cirororomo | morororrc | b | b |
| Portland Bill | pR | oR | bcc | cc |
| Plymouth | crroro | croromo | cmobcmo | bcmocpv |
| The Lizard | crorr | cbcc | bccbc | bcprc |
| Scilly (St. Mary's) | cpc | c | cpq | cbcp |
| Guernsey | | | | |
| Pembroke | c | c | qrc | qcpv |
| Holyhead (Valley) | cpro | c | cbc | bc |
| Chester (Sealand) | moproc | ciroRro | cmoiroiw | cbcmo |
| Manchester | iromo | cmo | cirombo | bcpro |
| Spurn Head | c | crr | cmwcbc | bc |
| Catterick | cbcc | ccmo | cmomo | cirocbc |
| Tynemouth | cbcc | cmo | cmc | cbc |
| St. Abbs Head | cidc | crr | cpcirc | cmoc |
| Leuchars | ciro | bcc | bcmo | crorоc |
| Renfrew (Abbots I.) | cmociroc | croro | cmgrcrciro | cmoiro |
| Eskdalemuir | cproc | cpro | cmo | cwmo |
| Point of Ayre | rrc | cprc | cvvro | cprroro |
| Tiree | bce ⊕ | ciroc | rorоpriro cid. | proirоpro |
| Stornoway | cpr | prir | | cidpv |
| Dalwhinnie | circ | ciro | | ociro |
| Aberdeen | crrRRbc | bccprobc | bcfbc | bccwro |
| Wick | crr | croroc | crrmocprc | cproc |
| Sumburgh | c,croro | croroc | cpv | cprcvv |
| Blacksod Point | pr | bc | c | r |
| Malin Head | bc | c | pv | r |
| Aldergrove | c | ciroc | cvvRR | oRRevvcid |
| *Birr Castle | bc | pr | • | b• |
| Valentia Obsy. | pr | pr | bc | pv |
| Roches Point | b | pr | bc | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 27th October 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 | Moderate South or Southwest winds, fresh locally, veering West to Northwest; local thundery showers more especially on windward coast; considerable bright periods; rather cold. |
| 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland | Moderate or fresh North to Northwest winds; cloudy with occasional rain at first; local thundery showers and bright intervals later; rather cold. |
| 14 Mid Scotland; 15 N.E. Scotland | As 1-11. |
| 16 Orkneys and Shetlands ♠ | Fresh or strong Northerly winds, backing Northwest; dull and rainy at first; thundery showers and bright intervals later; cold. |
| 17 N. W. Ireland; 18 N. E. Ireland | As 12-13B. |
| 19 S. E. Ireland; 20 S. W. Ireland | As 1-11. |

### GENERAL INFERENCE

A depression near Shetland is moving North and a trough of low pressure over Ireland will swing eastwards; It will be rather cold generally with local thundery showers but with bright periods in most districts.

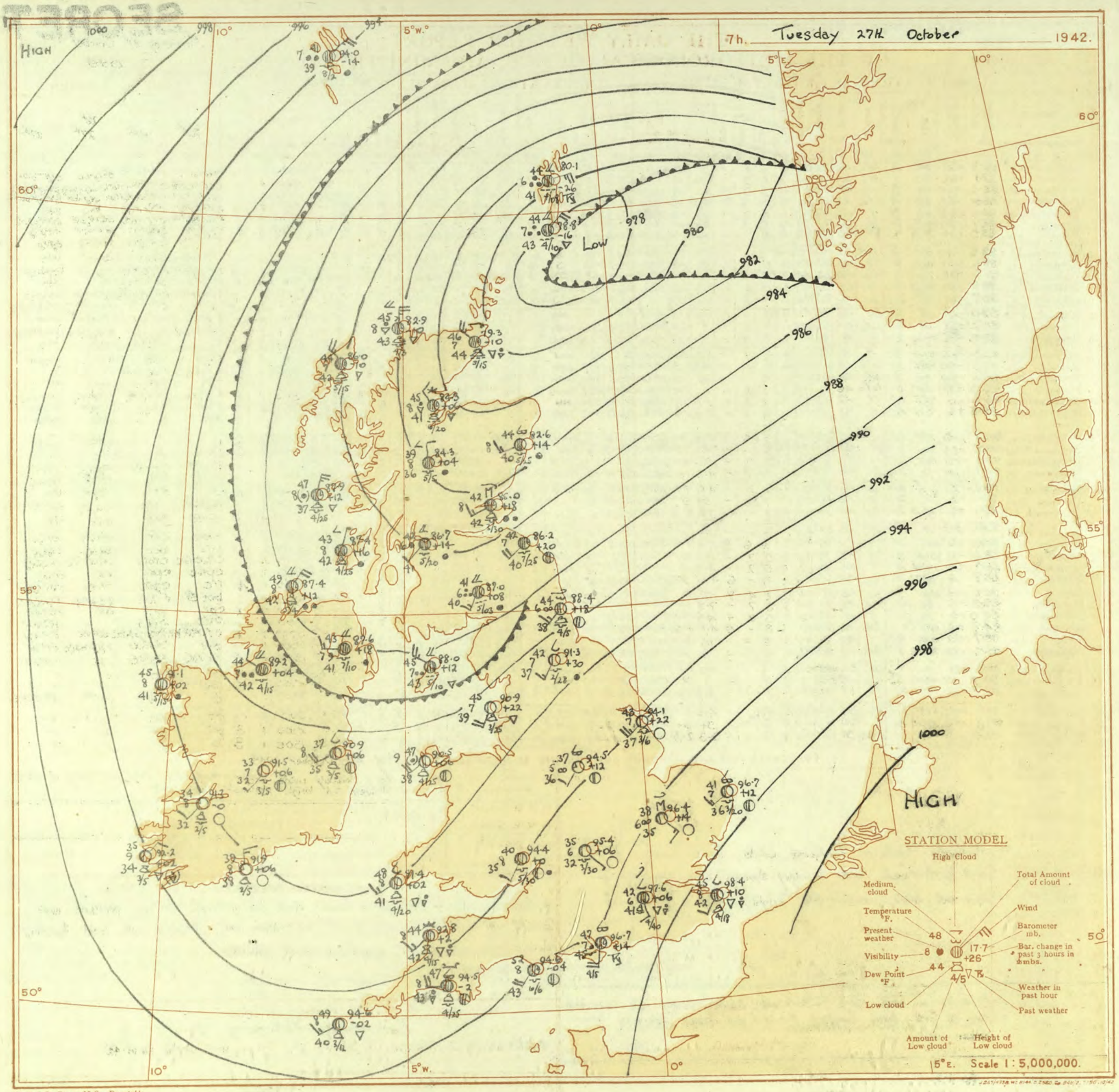
### FURTHER OUTLOOK

Cool showery Northwesterly type.

♠ Gale warning in operation in district 16, time of issue 1200h. 26·10·42

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

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

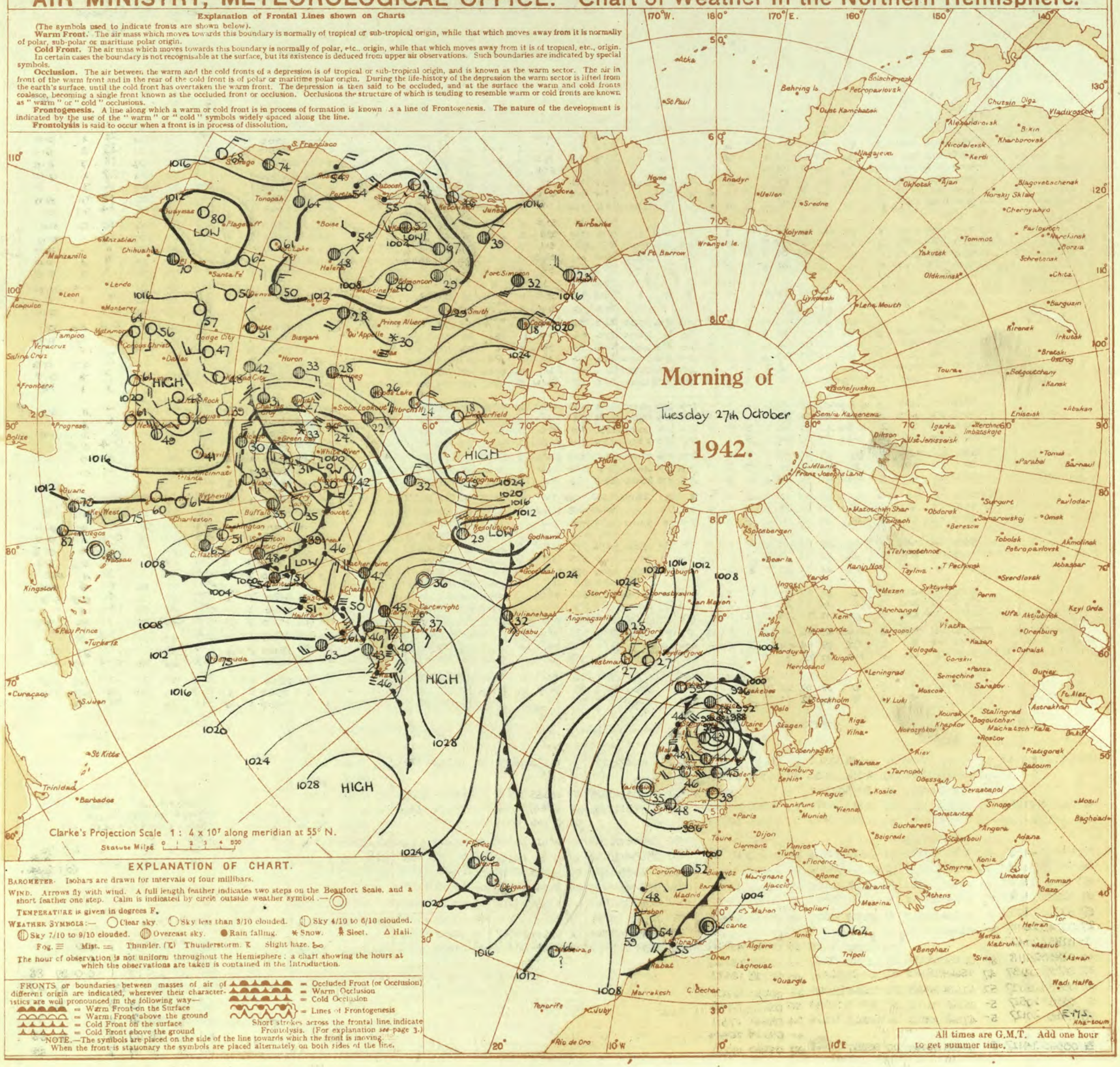
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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




## 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 one hour to get summer time.

Page 4. BRITISH SECTION

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

Tuesday 27th October 1942

No. 29559

## OBSERVATIONS at 1 hr. G.M.T. 27th October

| 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 | * | * | * | * | * | 41 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 96·6 | +26 | SSW | 2 | bc | 39 | 97 | 38 | 6 | - | 4 | - | 0 | 1 | - |
| | S. Farnborough | 226 | 95·9 | +22 | SW | 2 | bc | 39 | 92 | 37 | 8 | -- | 4 | - | 0 | 0 | - |
| | Boscombe Down | 417 | 95·9 | +16 | W | 2 | z0 | 36 | 97 | 35 | 6 | - | - | - | 0 | 0 | - |
| | Thorney Island• | 10 | 96·2 | +14 | N'W | 1 | bc | 39 | 97 | 39 | 7 | 1 | 4 | - | Tv | 1 | 4000 |
| | Lympne | 283 | 96·8 | +18 | W'S | 3 | c | 42 | 85 | 37 | 7 | - | - | 6 | 0 | 9+ | - |
| | Manston | 154 | 97·0 | +38 | WSW | 3 | z0 | 41 | 85 | 37 | 6 | 5 | 4 | 6 | Tv | 9 | 2100 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 96·2 | -58 | WSW | 4 | bc | 44 | 92 | 42 | 7 | - | 7 | - | 0 | 4-6 | - |
| | Gorleston | 5 | 92·9 | +44 | SW'W | 4 | z0 | 42 | 85 | 39 | 6 | 6 | 3 | - | 4-6 | 7-8 | 1500 |
| | Mildenhall | 15 | 93·6 | +42 | SW'S | 4 | bc | 42 | 85 | 39 | 7 | 5 | - | - | Tv | Tv | 2500 |
| | Cranwell | 203 | 91·5 | +30 | SW'W | 5 | bc | 41 | 85 | 38 | 6 | - | 7 | - | 0 | Tv | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 93·9 | +26 | SSW | 2 | z0 | 37 | 97 | 37 | 5 | - | - | - | 0 | 0 | - |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 93·2 | 0 | S | 3 | bc | 48 | 55 | 33 | 8 | 1 | 4 | - | 2-3 | 4-6 | 2500 |
| | Bristol | 209 | 95·3 | +16 | SSW | 3 | bc | 40 | 85 | 35 | 8 | 8 | - | - | Tv | Tv | 4000 |
| | Portland Bill | 32 | 95·4 | +28 | S | 3 | c-bc | 50 | 85 | 46 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth | 82 | 95·3 | +2 | E | 1 | bc | 36 | 97 | 35 | 6 | 5 | - | - | 4-6 | 4-6 | 3000 |
| | The Lizard | 240 | 95·0 | -4 | WSW | 5 | bc | 48 | 65 | 36 | 8 | 8 | - | - | 4-6 | 4-6 | 2000 |
| | Scilly (St. Mary's) | 163 | 93·7 | -6 | SW | 3 | c-bc/pv | 48 | 65 | 38 | 8 | 8 | 6 | - | 4-6 | 7-8 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 92·4 | +2 | SW | 3 | c-bc/pv | 46 | 75 | 39 | 8 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 7 | Holyhead (Valley) | 32 | 89·8 | +2 | W'S | 4 | bc | 46 | 65 | 38 | 9 | 2 | - | - | 4-6 | 4-6 | 2500 |
| | Chester (Sealand) | 16 | 90·5 | +14 | S | 2 | b-bc | 40 | 85 | 36 | 7 | 5 | - | - | 2-3 | 2-3 | 3000 |
| 8 | Manchester | 235 | 90·3 | +18 | S'E | 4 | b-bc | 39 | 92 | 38 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 |
| 10 | Spurn Head | 29 | 89·2 | +32 | WSW | 5 | bc | 45 | 85 | 42 | 7 | 9 | 4 | - | 4-6 | 4-6 | 1500 |
| | Catterick | 175 | 87·1 | +6 | WSW | 2 | z0 | 44 | 85 | 39 | 6 | 5 | 7 | 7 | 2-3 | 9+ | 4000 |
| | Tynemouth | 108 | 85·6 | +4 | W | 3 | c-bc | 44 | 85 | 39 | 6 | 8 | 3 | - | 4-6 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 84·0 | -6 | W | 3 | c | 43 | 97 | 43 | 7 | 5 | - | - | 9 | 9 | 2500 |
| | Leuchars | 36 | 83·5 | -8 | W | 1 | c | 39 | 97 | 39 | 8 | = | 8 | 8 | 0 | 9+ | - |
| 12 | Renfrew (Abbots I.) | 19 | 85·3 | -6 | WSW | 1 | iv0 | 43 | 92 | 41 | 6 | 5 | 2 | - | 7-8 | 10 | 2200 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 86·3 | -4 | NW'W | 5 | v0r0 | 46 | 92 | 44 | 8 | 9 | - | - | 9+ | 9+ | 1500 |
| 13A | Tiree | 22 | 86·5 | -10 | N'E | 4 | pr0 | 47 | 85 | 43 | 8 | 2 | 1 | 7 | 9 | 10 | 2000 |
| 13B | Stornoway | 80 | 88·4 | 0 | NE | 6 | pv0 | 44 | 92 | 42 | 7 | 8 | 2 | - | 7-8 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 83·0 | -26 | WNW | 3 | c | 43 | 97 | 42 | 8 | 5 | 7 | - | 7-8 | 10 | 3000 |
| | Wick | 114 | 83·6 | -26 | NNE | 5 | c | 46 | 85 | 43 | 8 | 5 | 7 | - | 7-8 | 9+ | 2000 |
| 16 | Sumburgh | 19 | 83·1 | -30 | ESE | 5 | pv | 48 | 97 | 48 | 8 | 2 | 7 | - | 7-8 | 9+ | 1200 |
| 17 | Blacksod Point | 18 | 91·3 | -4 | NNW | 2 | c-bc | 45 | 85 | 41 | 8 | 8 | - | 6 | 4-6 | 7-8 | 2500 |
| 18 | Malin Head | 84 | 86·4 | -14 | N | 5 | r0r0 | 48 | 85 | 44 | 8 | 8 | 2 | - | 4-6 | 10 | 1500 |
| | Aldergrove | 268 | 27·8 | -6 | W | 4 | RR | 42 | 92 | 40 | 7 | - | 2 | - | 10 | 10 | 1800 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 92·0 | -2 | - | 0 | b | 35 | 97 | 34 | 9 | 3 | - | 1 | 1 | 1 | 2500 |
| | Roches Point | 22 | 91·8 | -4 | N | 3 | b | 44 | 92 | 42 | 8 | 5 | - | - | 1 | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 27th October — 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 26th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 97·0 | +6 | NNW | 1 | z0 | 39 | 97 | 38 | 5 | 8 | - | 4 | 4-6 | 4-6 | 2500 | 1 | * | 47 | 37 | 24 | 21 | 1 | 0·0 |
| Croydon | 97·6 | +6 | S'E | 2 | c-bc/pv | 42 | 97 | 41 | 6 | 8 | 4 | 4 | 4-6 | 7-8 | 4000 | 1 | * | 53 | 36 | 31 | 25 | 2 | 0·0 |
| S. Farnborough | 96·6 | +6 | SE'S | 2 | bcjf | 36 | 92 | 35 | 6 | 8 | 4 | - | 4-6 | 4-6 | 2000 | 1 | * | 47 | 35 | 26 | 18 | 7 | 0·0 |
| Boscombe Down | 96·3 | | ESE | 3 | z0 | 35 | 92 | 33 | 6 | 3 | 3 | - | 4-6 | 4-6 | 3000 | 1 | * | 47 | 32 | 24 | 27 | 1 | 0·0 |
| Thorney Island• | 96·7 | +4 | S | 4 | iv0 | 47 | 92 | 45 | 7 | 5 | 7 | - | 4-6 | 9 | 2500 | 1 | * | 58 | 33 | 29 | 16 | 3 | * |
| Lympne | 98·4 | +10 | WSW | 1 | c/pv | 44 | 92 | 42 | 8 | 3 | 3 | - | 9 | 9+ | 2800 | 1 | §4 | 57 | 36 | 32 | 18 | Tv | 0·0 |
| Manston | 98·4 | +10 | SW | 2 | bc/pv | 45 | 85 | 42 | 8 | 2 | 4 | 1 | 4-6 | 4-6 | 1800 | 1 | * | 57 | 40 | 35 | 14 | 0·1 | * |
| Shoeburyness | 97·8 | +6 | SSE | 4 | c | 47 | 85 | 42 | 8 | 5 | 1 | - | 7-8 | 9 | 2500 | 1 | * | 57 | 42 | 32 | 10 | Tv | 0·0 |
| Felixstowe | 97·8 | +14 | SSW | 2 | c-bc | 45 | 75 | 39 | 7 | 5 | 7 | - | 2-3 | 7-8 | 4000 | 1 | 3 | 57 | 42 | 33 | 10 | - | 0·0 |
| Gorleston | 96·7 | -12 | SW | 3 | b-bc | 41 | 85 | 36 | 7 | 5 | 7 | - | 2-3 | 2-3 | 2000 | 1 | 3 | 56 | 37 | 33 | 11 | - | 0·0 |
| Mildenhall | 96·4 | +14 | SE'S | 3 | z0 | 38 | 92 | 35 | 6 | - | 8 | 1 | 0 | 2-3 | - | 1 | * | 48 | 37 | 31 | 11 | 4 | 0·0 |
| Cranwell | 99·2 | +18 | S'E | 3 | b-bc | 35 | 97 | 35 | 8 | - | 7 | 4 | 0 | 2-3 | - | 1 | * | 47 | 35 | 30 | 3 | 5 | 0·0 |
| Birmingham | 95·2 | +8 | S | 3 | b | 36 | 85 | 32 | 6 | - | - | 1 | 0 | 1 | - | 1 | * | 47 | 36 | 31 | 1 | 0·5 | 0·0 |
| Upper Heyford | 95·4 | +6 | SSE | 1 | b-bc | 35 | 92 | 32 | 6 | 5 | - | - | 2-3 | 2-3 | 3000 | 1 | * | 44 | 34 | 29 | 11 | 3 | * |
| Ross-on-Wye | 94·4 | 0 | S'W | 2 | c-bc/v | 40 | 85 | 35 | 8 | 5 | - | - | 7-8 | 7-8 | 3000 | 1 | * | 45 | 37 | 28 | 0·1 | - | 0·0 |
| Hartland Point | 92·8 | +2 | SW | 3 | c-bc/pv | 44 | 92 | 42 | 8 | 3 | 6 | - | 4-6 | 7-8 | 1500 | 1 | 4 | 49 | 42 | 39 | 0·4 | 0·4 | 0·1 |
| Bristol | 99·6 | +6 | SW | 1 | bc | 36 | 85 | 33 | 8 | 5 | 4 | - | 1 | 1 | 2500 | 1 | * | 45 | 35 | 30 | 6 | Tv | 0·0 |
| Portland Bill | 94·6 | -4 | SW | 4 | c | 52 | 75 | 43 | 8 | 5 | - | - | 9 | 9 | 4000 | * | 4 | 52 | 44 | * | 22 | - | * |
| Plymouth | 94·5 | -2 | W | 4 | PR | 47 | 85 | 43 | 8 | 8 | 7 | 7 | 4-6 | 10 | 2500 | 1 | 2 | 49 | 36 | 28 | 6 | 0·3 | 0·5 |
| The Lizard | 93·6 | -2 | W | 3 | c-bc | 48 | 75 | 41 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 1 | 4 | 52 | 45 | * | 7 | 3 | 0·7 |
| Scilly (St. Mary's) | 94·6 | -2 | SW'W | 5 | bc | 49 | 75 | 40 | 8 | 2 | 6 | - | 2-3 | 4-6 | 1200 | 1 | 4 | 52 | 46 | * | 2 | 1 | 1·8 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 91·4 | +2 | WSW | 3 | c-bc/pv | 48 | 75 | 41 | 8 | 8 | 4 | - | 4-6 | 7-8 | 2000 | 1 | 2 | 50 | 38 | * | - | 4 | 2·2 |
| Holyhead (Valley) | 90·5 | +6 | SW'W | 4 | bcjp | 47 | 65 | 38 | 9 | 2 | - | - | 4-6 | 4-6 | 2500 | 1 | 3 | 49 | 43 | 38 | 4 | 4 | * |
| Chester (Sealand) | 92·5 | +14 | SSE | 2 | bc | 38 | 85 | 35 | 6 | 5 | - | - | 4-6 | 4-6 | 3500 | 1 | * | 48 | 38 | 29 | 3 | 2 | 0·0 |
| Manchester | 93·0 | +14 | SSE | 3 | c-bc | 38 | 92 | 35 | 7 | 5 | 3 | - | 4-6 | 7-8 | 3000 | 1 | * | 47 | 38 | 33 | 0·4 | 0·4 | * |
| Spurn Head | 94·1 | +22 | SW'S | 5 | b-bc | 43 | 85 | 37 | 7 | 4 | - | - | 2-3 | 2-3 | 4000 | 1 | 4 | 48 | 41 | * | 3 | 5 | * |
| Catterick | 91·3 | +30 | SSW | 3 | b-bc | 42 | 85 | 37 | 7 | 5 | 4 | - | 1 | 2-3 | 2800 | 1 | * | 48 | 41 | | - | 0·1 | |
| Tynemouth | 88·4 | +18 | SW | 3 | z0 | 44 | 85 | 38 | 6 | 8 | 3 | 1 | 4-6 | 4-6 | 2500 | 1 | 2 | 48 | 43 | 39 | - | - | * |
| St. Abbs Head | 86·2 | +20 | SW | 4 | c | 42 | 92 | 40 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 | 48 | 40 | * | 2 | 3 | * |
| Leuchars | 85·0 | +18 | WSW | 3 | c/v | 42 | 97 | 42 | 8 | 8 | 8 | 3 | 2-3 | 9+ | 3000 | 1 | * | 50 | 39 | 30 | 0·4 | 0·2 | :·5 |
| Renfrew (Abbots I.) | 86·7 | -14 | SW | 1 | iv0 | 42 | 97 | 41 | 6 | 5 | 2 | - | 7-8 | 10 | 2000 | 2 | * | 48 | 41 | 39 | 2 | 2 | 0·0 |
| Eskdalemuir | 87·0 | +8 | SW'S | 3 | rr | 41 | 97 | 40 | 6 | 6 | 2 | - | 7-8 | 10 | 300 | 1 | * | 45 | 32 | 28 | 0·1 | 4 | 0·0 |
| Point of Ayre | 88·0 | +12 | WNW | 5 | v0r0 | 45 | 92 | 43 | 7 | 6 | 2 | - | 7-8 | 10 | 1000 | 1 | 4 | 54 | 44 | * | 2 | 6 | 0·6 |
| Tiree | 87·9 | +12 | N'E | 5 | cjp | 47 | 75 | 37 | 8 | 8 | 6 | 7 | 4-6 | 9+ | 2500 | 1 | 3 | 50 | 45 | * | Tr | 0·2 | 3·7 |
| Stornoway | 86·0 | -10 | NNW | 5 | c | 44 | 92 | 42 | 7 | 8 | 2 | - | 7-8 | 9+ | 1500 | 2 | 3 | 48 | 42 | * | 2 | 4 | 0·0 |
| Dalwhinnie | 84·3 | +4 | N | 2 | o | 39 | 85 | 36 | 8 | 5 | 1 | - | 7-8 | 10 | 2500 | 1 | * | 41 | 37 | 36 | 1 | 5 | 0·0 |
| Aberdeen † | 82·6 | +14 | W'S | 3 | c-bc | 44 | 85 | 40 | 8 | 5 | 7 | - | 7-8 | 7-8 | 2500 | 1 | 2 | 51 | 41 | 33 | 4 | 0·5 | 0·9 |
| Wick | 79·3 | -10 | NW | 5 | c/pv | 46 | 92 | 44 | 7 | 9 | - | 3 | 7-8 | 9 | 1500 | 1 | * | 48 | 44 | 42 | 4 | 4 | * |
| Sumburgh | 78·8 | -16 | NE | 4 | rr | 44 | 97 | 43 | 7 | 6 | 2 | - | 4-6 | 10 | 1000 | 1 | 4 | 48 | 44 | 43 | 1 | 10 | 0·0 |
| Blacksod Point | 91·1 | +2 | N'W | 1 | c-bc | 45 | 85 | 41 | 8 | 6 | - | - | 7-8 | 7-8 | 2500 | 1 | 2 | 54 | 40 | * | 0·2 | 3 | * |
| Malin Head | 87·4 | +12 | NE'N | 4 | c/v | 49 | 75 | 42 | 8 | 8 | 2 | - | 7-8 | 9+ | 1500 | 2 | 4 | 49 | 43 | | - | 27 | 1·6 |
| Aldergrove | 87·6 | +18 | W | 3 | id0 | 43 | 92 | 41 | 7 | 5 | 2 | - | 9+ | 10 | 1000 | 1 | * | 48 | 40 | 40 | 0·1 | 19 | 0·0 |
| Birr Castle | 91·5 | +6 | SW | 1 | b-bc | 33 | 97 | 32 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * | 52 | 31 | 27 | 1 | 0·5 | 5·4 |
| Valentia Obsy. | 92·2 | +2 | NE'E | 2 | b-bc/pv | 35 | 97 | 34 | 9 | 3 | - | - | 2-3 | 2-3 | 2500 | 1 | 1 | 50 | 34 | 30 | 4 | 0·3 | 5·0 |
| Roches Point | 91·9 | +6 | N | 3 | b | 39 | 97 | 38 | 8 | 2 | - | - | 1 | 1 | 2500 | 1 | 3* | 52 | 38 | * | Tr | Tv | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 26th October IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 27th October C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 105 52 | 62744 | 02668 | 50 | 02654 | 35664 | 8- | 51648 | 32568 | 8- | 81647 | 30687 |
| 115 | | | 52 | 63735 | 39588 | 87 | 81744 | 33586 | 82 | 81834 | 65587 |
| 203 | | | 5- | 03848 | 04578 | 82 | 81845 | 32328 | | | |
| 206 62 | 62847 | 31368 | 53 | 02744 | 02468 | 83 | 02855 | 30386 | 96 | 81856 | 30287 |
| 216 62 | 62635 | 34668 | 83 | 25844 | 02287 | 57 | 02856 | 65587 | 57 | 02866 | 56568 |
| 220 | | | 32 | 03745 | 32328 | | | | 82 | 03845 | 31328 |
| 230 72 | 02965 | 01228 | 42 | 21953 | 31268 | 52 | 62853 | 00068 | 51 | 02955 | 30268 |
| 245 26 | 02954 | 30265 | 46 | 02761 | 32125 | 53 | 02764 | 24328 | 87 | 02957 | 23267 |
| 260 57 | 02765 | 28328 | 52 | 05664 | 20228 | 57 | 05655 | 20226 | 57 | 02866 | 22218 |
| 276 51 | 02853 | 28368 | 57 | 61843 | 28368 | 52 | 62734 | 23468 | 52 | 64747 | 24168 |
| 279 57 | 62764 | 26267 | 5- | 02854 | 30267 | 5- | 02757 | 23327 | 8- | 81645 | 20488 |
| 285 27 | 02745 | 26487 | 5- | 03748 | 24228 | | | | | | |
| 288 8- | 02854 | 20427 | | | | 04 | 02790 | 18428 | 54 | 01861 | 49562 |
| 572 20 | 02853 | 24118 | 8- | 02851 | 28228 | 57 | 62744 | 28267 | 52 | 62744 | 28268 |
| 301 87 | 81757 | 24187 | 47 | 25664 | 28185 | 57 | 62655 | 26467 | 80 | 01753 | 18483 |
| 320 07 | 05590 | 18327 | 52 | 62654 | 00068 | 53 | 05661 | 22324 | 04 | 00690 | 16201 |
| 296 5- | 05657 | 20527 | 5- | 05668 | 18128 | 5- | 05548 | 20268 | 50 | 05653 | 20413 |
| 295 53 | 17465 | 20127 | 5- | 47368 | 00028 | 51 | 05663 | 21264 | 54 | 05661 | 17311 |
| 310 | | | | | | | | | -- | 01634 | 20414 |
| 614 31 | 05565 | 24127 | 5- | 64458 | 00068 | 00 | 05590 | 22362 | 07 | 05590 | 18212 |

| 13h. G.M.T. 26th October IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 27th October C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 27 | 02864 | 30127 | 2- | 01853 | 26285 | 26 | 01853 | 22214 | 36 | 81855 | 24187 |
| 334 | | | | | | | | | -- | 02753 | 20114 |
| 346 52 | 05654 | 00028 | 57 | 05655 | 28127 | 53 | 01861 | 20313 | 57 | 01862 | 16413 |
| 136 62 | 62745 | 12268 | 62 | 63647 | 32468 | 50 | 05631 | 23461 | 08 | 01790 | 18213 |
| 336 | | | 54 | 01754 | 32415 | | | | 21 | 25754 | 20486 |
| 356 52 | 61544 | 06268 | 5- | 62625 | 28368 | 00 | 05690 | 18310 | 57 | 01743 | 15313 |
| 368 57 | 05654 | 04168 | 83 | 01754 | 04115 | 80 | 00753 | 22413 | 54 | 01753 | 16114 |
| 379 52 | 62734 | 04368 | 02 | 64438 | 30368 | 50 | 05603 | 24313 | 57 | 01852 | 20313 |
| 390 52 | 58544 | 04268 | 62 | 62545 | 22268 | 00 | 05590 | 20301 | | | |
| 389 62 | 62633 | 04368 | 62 | 64534 | 28468 | 04 | 05690 | 00001 | 57 | 01763 | 00013 |
| 438 8- | 22638 | 20768 | | | | 84 | 02744 | 24315 | 8- | 02746 | 20466 |
| 436 62 | 64646 | 04468 | xx | 22647 | 59567 | 10 | 04561 | 00003 | | | |
| 401 82 | 25945 | 18155 | 24 | 02954 | 27325 | 54 | 01853 | 14323 | 36 | 81854 | 16385 |

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 27th October.
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 • | crrr0m | rRd.df | fr0rr0bc |
| Croydon | crrm,rf | fcir0bm0 | b, cpr0 |
| Greenwich | rRrm0 | rRmfcir | cbcrc |
| Camden Square | 0 | 0 | * |
| •Kensington • | or | or | * |
| Hampstead | or | or | orbc |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·7 Time 17h 26th. Min. <0·1 Time 22-24h 26th.

| 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 | 47 | 37 | 24 | 21 | 1 | 0·0 | * | * |
| Croydon | 53 | 36 | 21 | 25 | 2 | 0·0 | * | * |
| Greenwich | 51 | 35 | 27 | 19 | 1 | 0·0 | 97 | 88 |
| Westminster | 50 | 38 | 32 | 23 | | | 97 | 97 |
| Regents Park | 50 | 37 | 31 | 19 | 3 | | 92 | 77 |
| Camden Square | 48 | 36 | 29 | 21 | 1 | * | * | 91 |
| Kensington | 47 | 36 | 23 | 17 | 2 | | 96 | 88 |
| Hampstead | 46 | 37 | 30 | 17 | 2 | | * | 89 |

SECRET

Page 1 BRITISH SECTION

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

Wednesday 28th October 1942

No. 29560

## OBSERVATIONS at 13h. G.M.T. 27th October

| 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) | 97·9 | 0 | SSW | 2 | ter | 50 | 85 | 46 | 6 | 9 | - | 3 | 7-8 | 9+ | 4000 |
| | Croydon | 98·2 | 0 | S | 1 | c | 53 | 75 | 46 | 6 | 3 | 7 | 6 | 4-6 | 9 | 2000 |
| | S. Farnborough | 96·4 | -24 | SSW | 3 | c | 55 | 65 | 44 | 8 | 8 | 6 | 3 | 7-8 | 9 | 1400 |
| | Boscombe Down | 97·0 | 0 | S | 2 | pr | 52 | 75 | 45 | 7 | 3 | 6 | - | 4-6 | 7-8 | 2500 |
| | Thorney Island | 97·6 | +2 | S'W | 4 | c-bc | 55 | 75 | 46 | 9 | 9 | 6 | 3 | 4-6 | 7-8 | 2500 |
| | Lympne | 99·1 | -2 | SSW | 1 | c | 53 | 65 | 44 | 8 | 1 | - | 8 | Tr | 9+ | 3200 |
| | Manston | 99·8 | +4 | S | 2 | c | 53 | 65 | 43 | 8 | 2 | - | 8 | 4-6 | 9+ | 2200 |
| 2 | Shoeburyness | 99·5 | -2 | S | 3 | c | 53 | 75 | 45 | 8 | - | 2 | - | 0 | 10 | - |
| | Felixstowe | 99·1 | +4 | S'W | 3 | c | 54 | 65 | 44 | 8 | 2 | 1 | 8 | 2-3 | 9 | 2500 |
| | Gorleston | 98·8 | +6 | SW | 3 | c-bc | 54 | 75 | 45 | 7 | 8 | 7 | - | 4-6 | 7-8 | 1600 |
| | Mildenhall | 98·1 | -2 | S'W | 3 | c-bc | 53 | 65 | 42 | 7 | 2 | 4 | 6 | 1 | 7-8 | 3000 |
| | Cranwell | 96·7 | -2 | S'W | 4 | bc | 52 | 65 | 40 | 8 | 1 | 4 | 5 | 2-3 | 4-6 | 2500 |
| 3 | Birmingham | 96·0 | +2 | SSW | 3 | c | 50 | 75 | 42 | 8 | 8 | 7 | - | 7-8 | 9 | 1500 |
| | Upper Heyford | 96·4 | -4 | SSW | 3 | bc | 53 | 65 | 42 | 8 | 2 | - | 3 | 4-6 | 4-6 | 2500 |
| 4 | Ross-on-Wye | 95·2 | 0 | S | 3 | c-bc | 52 | 65 | 41 | 8 | 8 | - | 3 | 4-6 | 7-8 | 3000 |
| 5 | Hartland Point | 93·6 | +2 | SW | 4 | pr | 51 | 75 | 42 | 8 | 3 | 6 | 4 | 4-6 | 7-8 | 1200 |
| | Bristol | 96·7 | +4 | S'W | 3 | pr | 50 | 75 | 42 | 8 | 3 | 4 | 3 | 7-8 | 9 | 4000 |
| | Portland Bill | 97·1 | +6 | SSW | 4 | c | 55 | 75 | 49 | 8 | 2 | 4 | - | 4-6 | 9 | 4000 |
| | Plymouth | 97·5 | +6 | SSW | 4 | c-bc | 54 | 65 | 43 | 8 | 8 | 6 | 3 | 4-6 | 7-8 | 2500 |
| | The Lizard | 95·1 | +4 | WSW | 4 | c-bc/pr | 51 | 75 | 42 | 8 | 8 | 6 | - | 7-8 | 7-8 | 1500 |
| | Scilly (St. Mary's) | 94·4 | +14 | SW | 2 | c/pr | 54 | 75 | 45 | 8 | 8 | 6 | 6 | 4-6 | 9 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 93·4 | +4 | WSW | 3 | c-bc | 50 | 75 | 41 | 8 | 2 | 6 | - | 4-6 | 7-8 | 2000 |
| 7 | Holyhead (Valley) | 93·1 | +10 | SW'S | 3 | b-bc | 53 | 65 | 40 | 8 | 1 | - | 3 | 1 | 2-3 | 2000 |
| | Chester (Sealand) | 94·1 | +6 | S | 1 | c | 50 | 75 | 41 | 7 | 8 | 4 | 6 | 4-6 | 9 | 3000 |
| 8 | Manchester | 94·9 | +4 | SSE | 4 | c-bc | 49 | 75 | 40 | 7 | 1 | 4 | - | 4-6 | 7-8 | 2500 |
| 10 | Spurn Head | 96·2 | 0 | S'W | 5 | b-bc | 51 | 65 | 40 | 7 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Catterick | 94·3 | +10 | SSW | 2 | zo | 50 | 65 | 38 | 6 | 2 | - | - | 4-6 | 4-6 | 2000 |
| | Tynemouth | 92·4 | +10 | SW | 5 | bc | 50 | 65 | 37 | 6 | 2 | - | - | 4-6 | 4-6 | 2200 |
| 11 | St. Abbs Head | 90·5 | +20 | SW | 3 | iro | 46 | 85 | 43 | 7 | 5 | 2 | - | 7-8 | 9 | 2500 |
| | Leuchars | 89·9 | +20 | SW | 4 | zo | 51 | 85 | 47 | 6 | 5 | 7 | 8 | Tr | 7-8 | 4000 |
| 12 | Renfrew (Abbots I.) | 90·8 | +16 | W | 1 | zo | 49 | 75 | 43 | 6 | 8 | 2 | - | 4-6 | 9 | 2500 |
| | Eskdalemuir | 91·1 | +10 | SW'S | 3 | rr | 43 | 97 | 42 | 7 | 6 | 2 | - | 10 | 10 | 900 |
| | Point of Ayre | 91·5 | +14 | WSW | 4 | pr | 47 | 92 | 44 | 8 | 8 | - | - | 9+ | 9+ | 2000 |
| 13A | Tiree | 91·7 | +16 | NW | 4 | bc | 49 | 75 | 39 | 9 | 2 | 6 | 3 | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 89·6 | +22 | NW | 5 | c | 48 | 85 | 44 | 8 | 2 | 6 | 8 | 2-3 | 9 | 2500 |
| 15 | Dalwhinnie | 89·5 | +20 | WSW | 2 | c | 44 | 75 | 37 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 |
| | Aberdeen | 88·6 | +30 | W | 4 | c | 50 | 65 | 39 | 8 | 7 | - | 6 | 9 | 9 | 2500 |
| | Wick | 95·7 | +34 | NW | 3 | c-bc/pr | 46 | 92 | 44 | 8 | 9 | - | - | 7-8 | 7-8 | 1500 |
| 16 | Sumburgh | 81·9 | +30 | NNW | 5 | iro | 45 | 85 | 41 | 8 | 5 | 7 | - | 7-8 | 9+ | 1500 |
| 17 | Blacksod Point | 93·7 | +14 | SE | 2 | rr | 44 | 92 | 42 | 7 | 6 | 2 | - | 4-6 | 10 | 1500 |
| 18 | Malin Head | 91·6 | +16 | N | 5 | c-bc | 50 | 75 | 42 | 8 | 2 | - | 4 | 4-6 | 7-8 | 2500 |
| | Aldergrove | 91·5 | +16 | — | 0 | c | 46 | 85 | 42 | 8 | 8 | 7 | - | 9 | 9+ | 2500 |
| 19 | Birr Castle | 92·6 | +2 | SW | 2 | c-bc | 49 | 75 | 41 | 8 | 5 | 1 | - | 4-6 | 7-8 | 2500 |
| 20 | Valentia Obsy. | 93·5 | 0 | W | 2 | c-bc | 49 | 75 | 41 | 9 | 2 | - | 3 | 2-3 | 7-8 | 4000 |
| | Roches Point | 93·8 | +6 | SW'W | 1 | bc | 50 | 75 | 42 | 8 | 2 | - | 3 | 2-3 | 4-6 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 27th October

| 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) | 99·3 | +18 | S'E | 1 | m | 47 | 92 | 45 | 4 | - | - | - | 0 | 0 | - | 1 | * |
| Croydon | 99·8 | +14 | — | 0 | m | 47 | 97 | 46 | 4 | 3 | 4 | 3 | 2-3 | 2-3 | 2500 | 1 | * |
| S. Farnborough | 99·2 | +8 | — | 0 | b-bc | 47 | 92 | 44 | 6 | 8 | 4 | 3 | 1 | 2-3 | 2000 | 1 | * |
| Boscombe Down | 98·7 | +10 | S | 3 | bc | 45 | 92 | 42 | 7 | 3 | 6 | 3 | 2-3 | 4-6 | 2000 | 1 | * |
| Thorney Island | 98·9 | +14 | WSW | 2 | b-bc | 51 | 85 | 46 | 8 | 3 | · | 3 | 2-3 | 2-3 | 2500 | 1 | c |
| Lympne | 00·4 | +12 | SSW | 1 | b-bc | 49 | 85 | 44 | 8 | 1 | 6 | 8 | Tr | 2-3 | 3000 | 1 | §3 |
| Manston | 00·5 | +12 | S | 1 | c-bc | 48 | 85 | 43 | 8 | 2 | - | 8 | 1 | 7-8 | 2000 | 1 | * |
| Shoeburyness | 00·9 | +12 | SSE | 3 | b-bc | 51 | 85 | 45 | 8 | - | 4 | - | 0 | 2-3 | - | 1 | * |
| Felixstowe | 00·1 | +14 | S | 2 | c-bc | 50 | 75 | 43 | 8 | 4 | - | 6 | 1 | 7-8 | 2500 | 0 | 2 |
| Gorleston | 99·9 | +10 | SW'S | 2 | bc | 49 | 85 | 44 | 7 | 2 | 4 | - | 2-3 | 4-6 | 2900 | 1 | 3 |
| Mildenhall | 99·2 | +14 | SSE | 3 | zo | 48 | 92 | 45 | 6 | 4 | - | - | 1 | 1 | 4000 | 1 | * |
| Cranwell | 98·4 | +14 | S'E | 3 | b | 43 | 85 | 40 | 7 | 4 | - | 3 | Tr | 1 | 3000 | 0 | * |
| Birmingham | 97·7 | +14 | SSW | 3 | bc | 47 | 75 | 40 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| Upper Heyford | 98·0 | +10 | S | 2 | b | 46 | 85 | 40 | 8 | 3 | 6 | - | 1 | 1 | 2500 | 0 | * |
| Ross-on-Wye | 97·7 | +16 | SSE | 1 | b-bc | 46 | 85 | 40 | 7 | 8 | - | 3 | 2-3 | 2-3 | 3000 | 1 | * |
| Hartland Point | 96·6 | +22 | W | 3 | cbc/pr | 50 | 75 | 43 | 8 | 3 | 4 | - | 4-6 | 7-8 | 1500 | 1 | 4 |
| Bristol | 98·2 | +14 | SSE | 2 | b | 46 | 85 | 42 | 7 | 3 | - | - | 1 | 1 | 2500 | 1 | * |
| Portland Bill | 98·2 | +8 | SW | 4 | c | 53 | 75 | 47 | 8 | 2 | 4 | - | 4-6 | 9 | 4000 | 1 | 4 |
| Plymouth | 97·4 | +16 | SW'S | 4 | bc | 52 | 85 | 46 | 8 | 3 | 6 | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| The Lizard | 97·1 | +16 | SW | 4 | bc | 50 | 75 | 41 | 8 | 8 | - | - | 4-6 | 4-6 | 1500 | 1 | 4 |
| Scilly (St. Mary's) | 95·8 | +12 | SW'S | 2 | bcjp | 50 | 75 | 41 | 8 | 8 | 6 | - | 4-6 | 4-6 | 1200 | 1 | 3 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 95·7 | +10 | WSW | 2 | cbcjp | 50 | 75 | 41 | 8 | 8 | 4 | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| Holyhead (Valley) | 95·5 | +18 | SSW | 3 | bc | 48 | 75 | 42 | 9 | 3 | 6 | - | 4-6 | 4-6 | 2000 | 1 | 2 |
| Chester (Sealand) | 95·9 | +6 | ESE | 2 | b-bc | 50 | | | 7 | - | 4 | 3 | 0 | 2-3 | - | 0 | * |
| Manchester | 96·7 | +18 | SE | 3 | zo | 44 | 92 | 41 | 6 | 4 | 6 | - | 2-3 | 7-8 | 2000 | 1 | * |
| Spurn Head | 98·2 | +16 | S'E | 4 | bc | 51 | 85 | 46 | 7 | 7 | 3 | - | 4-6 | 4-6 | 4000 | 0 | 3 |
| Catterick | 96·9 | +20 | SSW | 2 | zo | 45 | 85 | 40 | 5 | 5 | 3 | - | 4-6 | 7-8 | 3000 | 1 | * |
| Tynemouth | 96·1 | +18 | SW | 3 | m | 46 | 75 | 40 | 4 | 2 | 3 | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| St. Abbs Head | 95·2 | +26 | SW | 3 | c | 45 | 85 | 40 | 7 | 5 | 4 | - | 7-8 | 9 | 2500 | 0 | 3 |
| Leuchars | 93·5 | +22 | WSW | 1 | m | 44 | 97 | 44 | 4 | 4 | 7 | 8 | Tr | 9+ | 3000 | 1 | * |
| Renfrew (Abbots I.) | 94·1 | +24 | — | 0 | cbcf+ | 42 | 92 | 40 | 3 | 8 | - | 6 | 2-3 | 7-8 | 3000 | 1 | * |
| Eskdalemuir | 94·5 | +20 | SW | 3 | rr | 42 | 92 | 41 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Point of Ayre | 94·3 | +20 | WSW | 4 | pr | 46 | 92 | 44 | 8 | 9 | - | - | 9 | 9 | 1500 | 1 | 4 |
| Tiree | 94·7 | +20 | NNW | 3 | bc | 45 | 75 | 36 | 9 | 1 | 6 | 5 | 1 | 4-6 | 3000 | 1 | |
| Stornoway | 93·8 | +28 | NNW | 4 | c | 44 | 92 | 42 | 8 | 8 | 7 | - | 4-6 | 9+ | 2000 | 1 | 2 |
| Dalwhinnie | 93·0 | +22 | SW | 1 | c-bc | 40 | 85 | 36 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | * |
| Aberdeen | 93·4 | +36 | SW'S | 1 | c-bc | 47 | 75 | 39 | 4 | 4 | - | 3 | 2-3 | 7-8 | 3500 | 1 | 1 |
| Wick | 91·5 | +28 | — | 0 | pf | 44 | 92 | 43 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Sumburgh | 90·0 | +50 | NNW | 4 | cbc/r | 45 | 85 | 40 | 8 | 5 | 2 | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| Blacksod Point | 96·0 | +14 | N | 4 | °/r | 48 | 75 | 40 | 8 | 6 | - | - | 10 | 10 | 1500 | 2 | 3 |
| Malin Head | 93·9 | +16 | N | 3 | c-bc | 49 | 75 | 41 | 8 | 2 | - | 2 | 4-6 | 7-8 | 2500 | 2 | 5 |
| Aldergrove | 94·5 | +18 | — | 0 | c/d | 45 | 85 | 42 | 8 | 8 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Birr Castle | 94·9 | +18 | NNW | 2 | c-bc | 41 | 92 | 39 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Valentia Obsy. | 95·2 | +16 | S'W | 1 | b-bc | 42 | 92 | 40 | 9 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| Roches Point | 95·3 | +16 | S | 1 | b-bc | 47 | 85 | 43 | 8 | 2 | - | 5 | 1 | 2-3 | 2500 | 1 | 3 |

## PAST 24 HOURS. WEATHER.

| Stations | 7h.—13h. 27th (39) | 13h.—18h. 27th (40) | 18h. 27th to 1h. 28th (41) | 1h.—7h. 28th (42) |
|---|---|---|---|---|
| London (Kew) | cpRct | bcmobm | bfFew | o Few |
| Croydon | CZomo | CZo bcm | cfmfg | cmcfe |
| S. Farnborough | cjfmoFRpr | bccpromo | bcbbmxcf | eb,cfxofe |
| Boscombe Down | | bcprob | bbccm | cmobcw |
| Thorney Island | crophbc | bccbcb | bmojfbw | bbccw |
| Lympne | cbcc | cbcw | bccw | cwc |
| Manston | croc | c | bccmow | cfmopro |
| Shoeburyness | cproc | procbc | b,cmow | cmow |
| Felixstowe | bccirobcc | cbc | bwbcw | bcwb,ciro |
| Gorleston | bcc | cbc | bcbbcw | cm zw |
| Mildenhall | bcmobcc | cbcebmo | cbmobcf | bcfc |
| Cranwell | bzobc | bbcb | bbmobcmo | bmofcm |
| Birmingham | bbc | cbc | bcb | bbcf |
| Upper Heyford | bmobbc | bcprobc | bbcmof | cFmx |
| Ross-on-Wye | bccbc | bcbbc | bcbmo | bfxF |
| Hartland Point | cphr | cpr | cbc | bc |
| Bristol | cmoc | cprobcb | bmbcprobc | bccwbcmo |
| Portland Bill | c | cpr | cpo | c |
| Plymouth | cprproc | cbc | bcc | eproprb |
| The Lizard | cprc | cbc | bcw | bcw |
| Scilly (St. Mary's) | bcpqc | cbc | bc | bcw |
| Guernsey | | | | |
| Pembroke | cpr | prcjp | bc | cpr |
| Holyhead (Valley) | bcb | bbcy | bcbjp | bcwxfg |
| Chester (Sealand) | bzoczoc | c | bcfbm | bmfbc |
| Manchester | bmobc | bcpromo | bcmobm | bmo |
| Spurn Head | bc | bc | bc | c |
| Catterick | bcbcmo | bczoczo | cmobmbf | bffx |
| Tynemouth | bc | bcm | bcbm | bmbcff |
| St. Abbs Head | cmoproroir | cprc | cbccb | bbccbc |
| Leuchars | ccmo | cmocm | cmbmow | bmowmo |
| Renfrew (Abbots I.) | cmo | cmomf | bfbcw | bfcdf |
| Eskdalemuir | crr | crr | crr | crprbc |
| Point of Ayre | rorocpro | proc | prbc | bbcc |
| Tiree | cjpbc | bc | | bcc |
| Stornoway | cpr | cpro | cprbc | bccpr |
| Dalwhinnie | pc | c | * | cbcc |
| Aberdeen | cbcc | cprobcz | bczocmo | cmo |
| Wick | cbccproc | cpro | cproc | cproc |
| Sumburgh | crriro | ciroproirc | iropro,b | bbc |
| Blacksod Point | r | r | r | r |
| Malin Head | pr | c | bc | r |
| Aldergrove | cproc | cidoc | ciroc | c |
| Birr Castle | bc | c | * | b |
| Valentia Obsy. | bc | bc | bc | pr |
| Roches Point | bc | bc | b | |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 28th October 1942.

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England | Light or moderate Northeast wind; cloudy, some rain in East of area; rather cold. |
| 3 E. Midlands; 4 W. Midlands | As 6-13A. |
| 5 S.W. England | Wind Southeast light, freshening later; mainly fair but rain later; rather cold. |
| 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 | Light variable or Easterly wind; occasional local showers today; fog in many places tonight; rather cold; ground frost tonight. |
| 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland | Moderate Northeast wind; cloudy; occasional showers; rather cold. |
| 16 Orkneys and Shetlands | As 13B-15. |
| 17 N. W. Ireland; 18 N. E. Ireland | Light variable or Northeast wind; cloudy; occasional rain; rather cold. |
| 19 S. E. Ireland; 20 S. W. Ireland | As 6-13A. |

### GENERAL INFERENCE

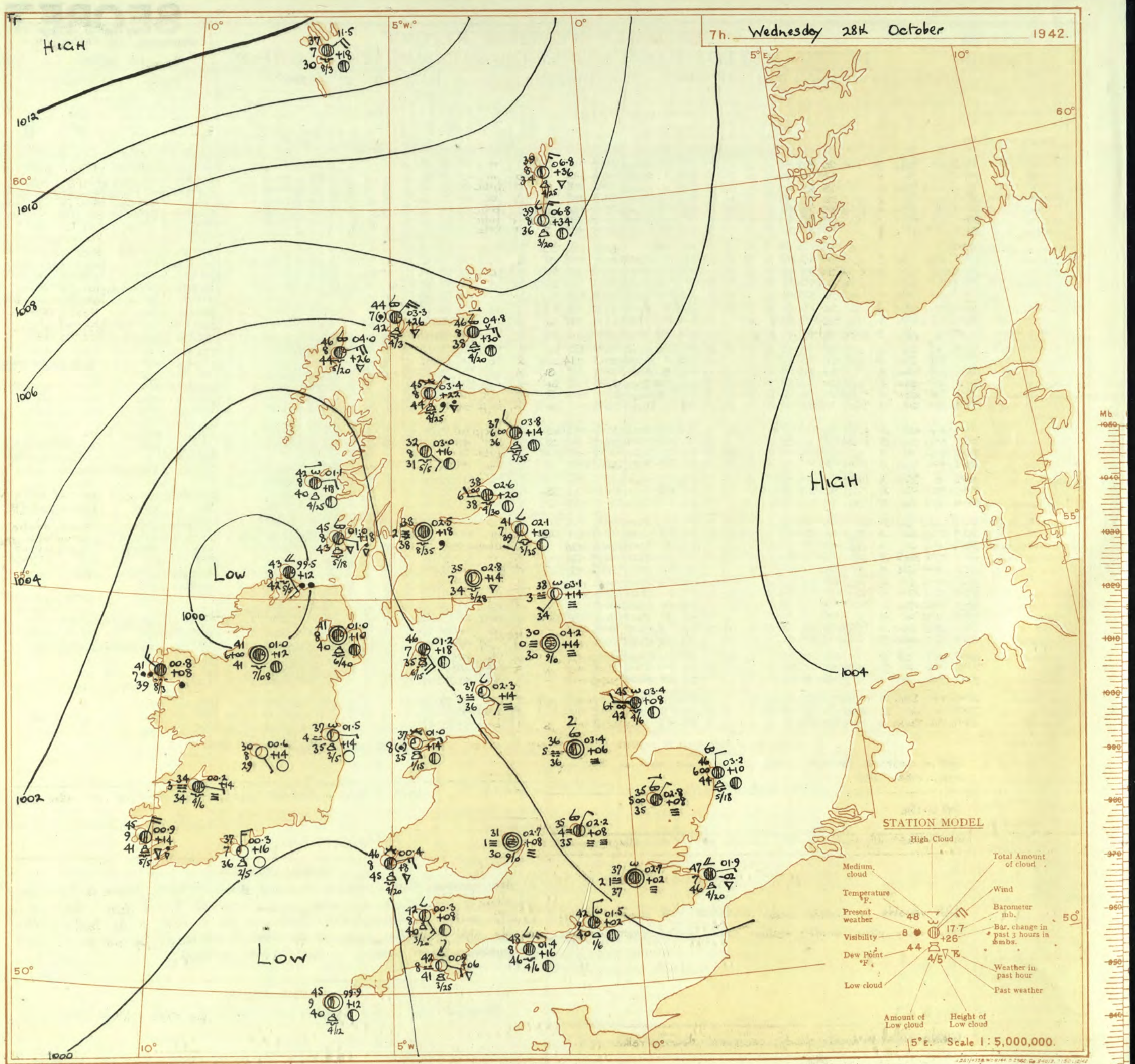
A deep depression West of Portugal is moving slowly northeast. Pressure is high from Greenland to mid-Atlantic and nearly uniform over the British Isles. There will be rain in southeast England and East Anglia and rain is likely in the Southwest later in the night. Elsewhere there will be local showers today; fog and ground frost are probable tonight especially in the Midlands and North.

### FURTHER OUTLOOK

Occasional rain in the South; mainly dry in the North; rather cold.

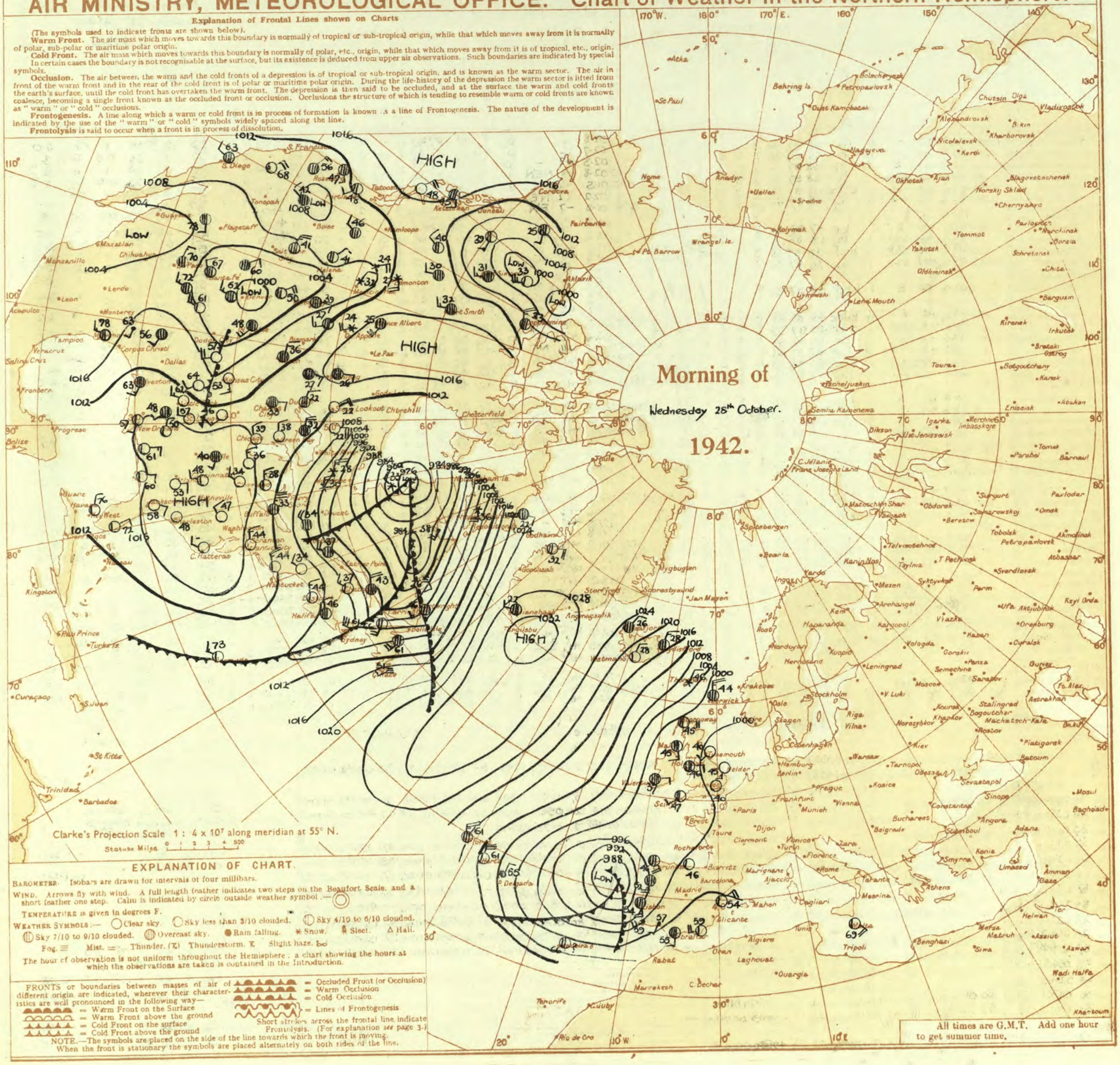
Forecasts issued at 10·30.

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




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

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




**Explanation of Frontal Lines shown on Charts**

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

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

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

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

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

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

## 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 28th October 1942

No. 29560

## OBSERVATIONS at 1 hr. G.M.T. 28th October

| 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 | * | * | * | * | * | 37 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 02.2 | +6 | – | 0 | m | 40 | 97 | 40 | 4 | – | – | 6 | 0 | 2-3 | – |
| | S. Farnborough | 226 | 01.7 | +4 | – | 0 | F | 35 | 97 | 35 | 1 | – | – | – | 0 | 0 | – |
| | Boscombe Down | 417 | 01.8 | +10 | E | 2 | zo | 38 | 97 | 38 | 6 | 1 | 6 | 6 | 1 | 9 | 2500 |
| | Thorney Island | 10 | 01.3 | +6 | NE'N | 1 | b | 38 | 97 | 37 | 8 | 2 | – | 1 | Tr | 1 | 2500 |
| | Lympne | 283 | 02.0 | 0 | W | 1 | c-bc | 42 | 97 | 42 | 8 | 2 | 3 | 6 | 1 | 7-8 | 3000 |
| | Manston | 154 | 02.3 | +2 | S | 1 | fg | 45 | 97 | 44 | 6 | 2 | 4 | 7 | Tr | 10 | 2000 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 01.9 | -8 | S | 1 | bc | 47 | 97 | 46 | 7 | – | 7 | – | 0 | 4-6 | – |
| | Gorleston | 5 | 02.2 | +4 | SW | 1 | bc | 48 | 85 | 45 | 7 | – | – | 8 | 0 | 4-6 | – |
| | Mildenhall | 15 | 02.3 | +10 | SEE | 2 | bcf | 39 | 97 | 38 | 3 | – | – | 2 | 0 | 4-6 | – |
| | Cranwell | 203 | 02.1 | +14 | S'W | 1 | m | 36 | 97 | 36 | 4 | – | – | 1 | 0 | 2-3 | – |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 01.4 | +10 | E | 1 | b-bcf | 39 | 97 | 39 | 3 | – | – | 5 | 0 | 2-3 | – |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 99.0 | +4 | S | 3 | b-bc | 44 | 85 | 41 | 8 | 2 | – | – | 2-3 | 2-3 | 2500 |
| | Bristol | 209 | 01.3 | +8 | SSE | 1 | c-bc | 40 | 97 | 39 | 8 | – | 6 | 3 | 0 | 7-8 | – |
| | Portland Bill | 32 | 99.6 | -4 | SW | 4 | pr | 55 | 92 | 53 | 8 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth | 82 | 00.1 | +8 | – | 0 | pr | 45 | 97 | 44 | 6 | 8 | – | – | 9 | 9 | 2000 |
| | The Lizard | 240 | 99.1 | +6 | WSW | 1 | b-bc | 47 | 85 | 43 | 8 | 8 | – | – | 2-3 | 2-3 | 2000 |
| | Scilly (St. Mary's) | 163 | 98.5 | +4 | SW | 1 | bc | 47 | 85 | 43 | 8 | 8 | – | – | 4-6 | 4-6 | 1500 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 98.9 | +12 | E | 1 | c-bc | 47 | 97 | 46 | 8 | 8 | 4 | – | 7-8 | 7-8 | 2000 |
| 7 | Holyhead (Valley) | 32 | 99.4 | +14 | E | 2 | fs | 41 | 97 | 40 | 8 | 8 | 6 | – | 4-6 | 7-8 | 2000 |
| | Chester (Sealand) | 16 | 00.4 | +10 | E | 2 | m/f | 37 | 97 | 36 | 4 | 5 | – | – | 1 | 1 | 3000 |
| 8 | Manchester | 235 | 00.8 | +12 | SE | 3 | zo | 41 | 92 | 39 | 5 | – | 3 | – | 0 | 1 | – |
| 10 | Spurn Head | 29 | 01.8 | +12 | S | 3 | b-bc | 45 | 92 | 43 | 7 | – | 4 | – | | 2-3 | 5700 |
| | Catterick | 175 | 01.6 | +18 | – | 0 | bf | 36 | 97 | 35 | 2 | – | – | – | 0 | 0 | – |
| | Tynemouth | 108 | 00.6 | +12 | SSW | 2 | m | 40 | 85 | 38 | 4 | – | – | – | 0 | 0 | – |
| 11 | St. Abbs Head | 280 | 98.7 | +12 | S | 3 | b-bc | 41 | 97 | 39 | 7 | 5 | – | – | 2-3 | 2-3 | 4000 |
| | Leuchars | 36 | 99.1 | +20 | – | 0 | zo | 36 | 97 | 36 | 6 | – | – | – | 0 | 0 | – |
| 12 | Renfrew (Abbots I.) | 19 | 99.5 | +22 | – | 0 | bcf- | 32 | 92 | 30 | 3 | – | 2 | – | 0 | 4-6 | – |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 98.8 | +12 | SW'W | 2 | b | 39 | 97 | 38 | 8 | 2 | 4 | – | 1 | 1 | 3500 |
| 13A | Tiree | 22 | 99.8 | +14 | NNE | 1 | bc | 40 | 92 | 38 | 9 | 2 | – | 5 | 2-3 | 4-6 | 2500 |
| 13B | Stornoway | 80 | 99.7 | +22 | ENE | 4 | bc | 45 | 92 | 43 | 8 | 8 | 4 | – | 2-3 | 4-6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 00.0 | +26 | SE | 1 | b-bc | 35 | 97 | | 9 | 5 | 7 | – | Tr | 2-3 | 5000 |
| | Wick | 114 | 99.7 | +30 | NE'E | 4 | c/pr | 46 | 75 | 40 | 7 | 8 | 2 | – | 7-8 | 10 | 2000 |
| 16 | Sumburgh | 19 | 00.0 | +32 | NNW | 3 | b | 42 | 85 | 38 | 8 | 2 | 6 | – | Tr | 1 | 2000 |
| 17 | Blacksod Point | 18 | 99.7 | +10 | N'W | 4 | RR | 44 | 92 | 42 | 7 | – | 2 | – | 10 | 10 | 800 |
| 18 | Malin Head | 84 | 98.0 | +18 | S'E | 3 | c-bc | 45 | 92 | 43 | 8 | 2 | – | – | 7-8 | 7-8 | 2500 |
| | Aldergrove | 268 | 99.2 | +18 | – | 0 | c | 42 | 97 | 41 | 7 | 5 | 2 | – | 2-3 | 10 | 3000 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 99.0 | +14 | ENE | 2 | c | 37 | 97 | 37 | 9 | 8 | – | – | 10 | 10 | 2500 |
| | Roches Point | 22 | 98.7 | +10 | N | 2 | b | 39 | 97 | 39 | 8 | – | – | – | 0 | 0 | – |

## OBSERVATIONS at 7 hr. G.M.T. 28th October — 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 26th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 02.8 | -6 | – | 0 | F | 41 | 97 | 40 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 53 | 36 | 28 | 1 | Tr | 3.0 |
| Croydon | 02.7 | +2 | – | 0 | Cf+ | 37 | 97 | 37 | 2 | – | 3 | – | 0 | 10 | – | 1 | * | 55 | 37 | 34 | 0.5 | Tr | 3.1 |
| S. Farnborough | 02.3 | +2 | – | 0 | F | 35 | 97 | 34 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 56 | 32 | 25 | 1 | Tr | 3.7 |
| Boscombe Down | 02.8 | +4 | NE'N | 1 | fg | 36 | 97 | 35 | 7 | – | 3 | 7 | 0 | 9+ | – | 0 | * | 55 | 36 | 29 | 0.6 | – | 5.4 |
| Thorney Island | 01.5 | +2 | N | 2 | c | 42 | 92 | 40 | 9 | 1 | 3 | – | Tr | 9 | 4000 | 1 | * | 57 | 36 | 30 | 1 | 0.1 | * |
| Lympne | 02.2 | +2 | N'E | 1 | c | 46 | 97 | 45 | 8 | 2 | 7 | – | Tr | 10 | 2500 | 1 | § 2 | 54 | 41 | 31 | – | – | 0.7 |
| Manston | 01.9 | -2 | E'N | 1 | c | 47 | 97 | 46 | 7 | 2 | 2 | – | 4-6 | 10 | 2000 | 1 | * | 54 | 44 | 32 | 0.1 | 0.3 | * |
| Shoeburyness | 02.5 | 0 | N | 2 | c | 45 | 97 | 44 | 5 | 5 | 2 | – | 9 | 10 | 4000 | 1 | * | 53 | 38 | 30 | 0.5 | – | 1.0 |
| Felixstowe | 02.3 | -4 | N | 2 | iro | 46 | 92 | 44 | 6 | 5 | 2 | – | 7-8 | 10 | 2500 | 1 | 1 | 55 | 41 | 37 | 0.1 | 0.2 | 0.3 |
| Gorleston | 03.2 | +10 | N | 1 | zo | 46 | 92 | 44 | 6 | 8 | 7 | – | 7-8 | 10 | 1800 | 1 | 2 | 55 | 43 | 36 | – | – | 0.2 |
| Mildenhall | 02.8 | +8 | NE | 1 | zo | 35 | 97 | 35 | 5 | – | 7 | 8 | 0 | 9+ | – | 1 | * | 55 | 34 | 31 | – | Tr | 5.2 |
| Cranwell | 03.7 | +10 | – | 0 | cf- | 31 | 97 | 31 | 2 | 5 | 7 | – | 2-3 | 10 | 200 | 1 | * | 53 | 30 | 23 | – | 1 | 8.2 |
| Birmingham | 03.2 | +8 | ESE | 1 | bcF | 37 | 97 | 36 | 1 | – | 5 | 6 | 0 | 4-6 | – | 1 | * | 51 | 36 | 25 | – | 1 | 54 |
| Upper Heyford | 02.2 | +8 | NE | 1 | m/f | 35 | 97 | 35 | 4 | – | 7 | – | 0 | 7-8 | – | 1 | * | 53 | 34 | 29 | Tr | – | * |
| Ross-on-Wye | 02.7 | +8 | – | 0 | F | 31 | 97 | 30 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 54 | 30 | 27 | – | – | 5.5 |
| Hartland Point | 00.3 | +8 | SSE | 3 | bc | 42 | 92 | 40 | 8 | 2 | 4 | – | 2-3 | 4-6 | 2000 | 1 | 3 | 55 | 41 | 38 | 7 | – | 1.7 |
| Bristol | 02.6 | +12 | – | 0 | fg | 36 | 97 | 36 | 6 | 5 | 4 | – | Tr | 1 | 2500 | 1 | * | 55 | 35 | 29 | 0.2 | 0.1 | 6.0 |
| Portland Bill | 01.4 | +16 | NE | 3 | c | 48 | 92 | 46 | 8 | 5 | 4 | – | 4-6 | 10 | 4000 | 1 | 4 | 55 | 49 | * | 0.2 | 0.1 | * |
| Plymouth | 00.9 | +6 | ESE | 2 | fs | 42 | 97 | 41 | 8 | 3 | 4 | .4 | 2-3 | 2-3 | 2500 | 1 | 3 | 55 | 41 | 35 | 1 | 4 | 4.2 |
| The Lizard | 99.8 | +8 | NE | 2 | bc | 45 | 92 | 43 | 8 | 2 | 6 | – | 2-3 | 4-6 | 2000 | 1 | 3 | 56 | 44 | * | 1 | – | 4.8 |
| Scilly (St. Mary's) | 99.9 | +12 | – | 0 | bc | 45 | 85 | 40 | 9 | 8 | – | – | 4-6 | 4-6 | 1200 | 1 | 2 | 56 | 50 | * | 13 | Tr | 5.7 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 00.4 | +8 | E'N | 3 | c-bc | 46 | 97 | 45 | 8 | 8 | 6 | – | 4-6 | 7-8 | 2000 | 1 | 2 | 52 | 43 | * | 2 | 2 | 1.7 |
| Holyhead (Valley) | 01.0 | +14 | E'N | 1 | bjp | 37 | 92 | 35 | 8 | 3 | 6 | – | Tr | 1 | 1500 | 1 | 2 | 53 | 36 | 29 | – | – | * |
| Chester (Sealand) | 01.9 | +10 | E'S | 2 | b-bcf | 35 | 97 | 34 | 4 | 5 | 3 | – | 1 | 2-3 | 3500 | 1 | * | 52 | 35 | 25 | – | – | 4.7 |
| Manchester | 02.6 | +10 | NNE | 2 | m | 33 | 97 | 32 | 4 | 5 | 3 | – | 1 | 2-3 | 4000 | 1 | * | 51 | 33 | 26 | 0.4 | – | * |
| Spurn Head | 03.4 | +8 | WNW | 2 | zo | 45 | 85 | 42 | 6 | 5 | 3 | – | 4-6 | 9 | 4000 | 0 | 2 | 53 | 41 | * | – | – | 8.8 |
| Catterick | 04.2 | +14 | – | 0 | F | 30 | 97 | 30 | 0 | – | – | – | 10 | 10 | <150 | 1 | * | 50 | 30 | 23 | – | – | 6.6 |
| Tynemouth | 03.1 | +14 | SW | 1 | b-bcf | 38 | 85 | 34 | 3 | – | 3 | – | 0 | 2-3 | – | 1 | 2 | 51 | 36 | 32 | – | – | * |
| St. Abbs Head | 02.1 | +10 | SSW | 2 | bc | 41 | 92 | 39 | 7 | 4 | 4 | – | 2-3 | 4-6 | 3500 | 0 | 3 | 46 | 37 | * | Tr | – | * |
| Leuchars | 01.6 | +20 | W | 1 | zo | 38 | 97 | 38 | 6 | 5 | – | – | 4-6 | 9+ | 3000 | 1 | * | 52 | 33 | 26 | Tr | – | 1.8 |
| Renfrew (Abbots I.) | 02.5 | +18 | – | 0 | df | 38 | 97 | 38 | 2 | 5 | – | – | 10 | 10 | 3500 | 1 | * | 49 | 30 | 28 | 0.3 | Tr | 0.0 |
| Eskdalemuir | 02.8 | +14 | – | 0 | b-bc | 35 | 97 | 34 | 7 | 5 | – | – | 2-3 | 2-3 | 2800 | 1 | * | 44 | 35 | 30 | 9 | 6 | 0.0 |
| Point of Ayre | 01.2 | +18 | SSE | 4 | c | 46 | 92 | 45 | 7 | 9 | – | – | 9 | 9 | 1500 | 1 | 3 | 47 | 36 | * | 3 | 1 | 0.5 |
| Tiree | 01.1 | +18 | E'N | 2 | c-bc | 42 | 92 | 40 | 8 | 2 | 3 | 1 | 4-6 | 7-8 | 2500 | 1 | | 51 | 38 | * | – | – | |
| Stornoway | 04.0 | +26 | ENE | 5 | c | 46 | 92 | 44 | 8 | 5 | 7 | 1 | 7-8 | 9+ | 2000 | 1 | 3 | 48 | 44 | * | 0.6 | 0.1 | 3.7 |
| Dalwhinnie | 03.0 | +16 | SE | 2 | c-bc | 32 | 92 | 31 | 8 | 5 | – | – | 7-8 | 7-8 | 2500 | 3 | * | 46 | 23 | 16 | – | | 1.3 |
| Aberdeen † | 03.8 | +14 | NW | 2 | zo | 37 | 92 | 36 | 6 | 8 | – | – | 7-8 | 9+ | 3500 | 1 | 2 | 51 | 34 | 30 | Tr | – | 3.7 |
| Wick | 04.8 | +30 | ENE | 3 | c-bc | 46 | 75 | 38 | 8 | 8 | 7 | 8 | 4-6 | 7-8 | 2000 | 1 | * | 48 | 43 | 41 | 4 | 0.2 | * |
| Sumburgh | 06.8 | +34 | NNE | 3 | b-bc | 39 | 92 | 36 | 8 | 2 | 4 | – | 2-3 | 2-3 | 2000 | 1 | 3 | 46 | 39 | 32 | 10 | 0.3 | |
| Blacksod Point | 00.8 | +8 | NW | 3 | roro | 41 | 92 | 39 | 7 | 6 | – | – | 10 | 10 | 800 | 2 | 3 | 49 | 40 | * | 15 | 15 | * |
| Malin Head | 99.5 | +12 | SSE | 2 | c/r | 43 | 97 | 42 | 8 | 5 | 2 | – | 7-8 | 9 | 2500 | 2 | 3 | 50 | 41 | | 1 | | 1.8 |
| Aldergrove | 01.0 | +10 | – | 0 | c | 41 | 97 | 40 | 8 | 8 | – | – | 9 | 9+ | 4000 | 1 | * | 49 | 39 | 35 | 0.5 | 0.2 | 1.0 |
| Birr Castle | 00.6 | +14 | SE | 1 | c-bc | 30 | 92 | 29 | 8 | – | – | – | 0 | 0 | – | 1 | * | 50 | 29 | 24 | – | 0.1 | 3.2 |
| Valentia Obsy. | 00.9 | +14 | NNE | 4 | pr | 45 | 85 | 41 | 9 | 8 | – | – | 7-8 | 7-8 | 2500 | 1 | 2 | 51 | 35 | 30 | Tr | 1 | 6.9 |
| Roches Point | 00.3 | +16 | N | 3 | b | 37 | 97 | 36 | 7 | 2 | – | – | 1 | 1 | 2500 | 1 | 2 | 53 | 36 | * | Tr | Tr | * |

Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 27 October $C_L C_M$ | wwVhNh | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN | 01h. G.M.T. 28 October $C_L C_M$ | wwVhNh | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhNh | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 9- | 62767 | 28487 | 83 | 02755 | 30386 | 81 | 02856 | 03387 | 80 | 25755 | 03485 |
| 115 | | | | 52 | 82735 | 65588 | 82 | 62834 | 14587 | 87 | 10734 | 04586 |
| 203 | 8- | 81847 | 28587 | | | | 8- | 02947 | 08427 | 54 | 02944 | 04416 |
| 206 | 86 | 02864 | 24286 | 86 | 01863 | 32284 | 5- | 51857 | 32117 | 86 | 25854 | 04154 |
| 210 | 56 | 02864 | 23525 | | | | 86 | 01953 | 00014 | 8- | 02856 | 13116 |
| 220 | 20 | 01954 | 30314 | 80 | 01944 | 31314 | | | | 82 | 01845 | 17227 |
| 230 | 16 | 02953 | 26365 | 13 | 02962 | 28325 | 00 | 01890 | 06124 | 57 | 02856 | 00028 |
| 245 | 84 | 02959 | 20325 | 27 | 02951 | 22117 | 00 | 05690 | 00012 | 84 | 02855 | 32217 |
| 260 | 14 | 02852 | 20215 | 57 | 01764 | 23124 | 03 | 05690 | 00015 | -- | 48309 | 00049 |
| 278 | 87 | 02945 | 30286 | 77 | 02954 | 40227 | 87 | 01851 | 12183 | 83 | 05653 | 16213 |
| 279 | 8- | 25965 | 52586 | 80 | 01864 | 16324 | 2- | 01864 | 16284 | 24 | 05663 | 05113 |
| 285 | 27 | 02745 | 22486 | 23 | 05634 | 20314 | | | | | | |
| 288 | 20 | 05652 | 18403 | 54 | 05663 | 15324 | 00 | 08490 | 18200 | -- | 44109 | 18249 |
| 575 | 87 | 81846 | 30228 | 53 | 02845 | 00027 | 5- | 61748 | 32168 | 5- | 05637 | 00027 |
| 301 | 26 | 05653 | 18415 | 86 | 08464 | 14185 | 00 | 45390 | 10240 | 04 | 45390 | 12241 |
| 321 | 14 | 02765 | 16415 | | | | 00 | 08490 | 00000 | | | |
| 299 | 50 | 01761 | 20412 | 80 | 01754 | 20314 | 00 | 05690 | 20200 | 50 | 05664 | 18114 |
| 292 | 5- | 17665 | 18315 | 53 | 21455 | 24167 | 00 | 47190 | 00040 | -- | 44009 | 00049 |
| 310 | | | | | | | | | | | | |
| 614 | 17 | 05664 | 18415 | 47 | 05663 | 14214 | 00 | 45390 | 00042 | 07 | 49590 | 00045 |
| 333 | - | 81857 | 22187 | 3- | 02855 | 12115 | 3- | 25855 | 28183 | 30 | 04952 | 02182 |
| 334 | | | | | | | | | | | | |
| 340 | 83 | 81855 | 17487 | 37 | 02854 | 15324 | 04 | 08490 | 15101 | 0- | 46090 | 00049 |
| 136 | 10 | 05662 | 16314 | 20 | 056-1 | 14214 | 00 | 04690 | 13203 | 03 | 41590 | 04147 |
| 336 | 62 | 64626 | 20468 | 20 | 01754 | 28414 | | | | | | |
| 350 | 20 | 02756 | 18326 | 26 | 01761 | 14212 | 00 | 05590 | 15214 | 57 | 08473 | 00024 |
| 368 | 36 | 02953 | 22215 | 86 | 01954 | 22115 | 53 | 01763 | 00014 | 53 | 08453 | 08114 |
| 379 | 20 | 02845 | 18436 | 40 | 01853 | 16313 | 04 | 01890 | 20203 | 07 | 08127 | 02939 |
| 390 | 27 | 05663 | 18287 | 00 | 47390 | 12220 | -- | 44209 | 14249 | 03 | 43190 | 00045 |
| 382 | 97 | 01854 | 16314 | 04 | 05590 | 00013 | 00 | 04490 | 00013 | -- | 48009 | 00049 |
| 438 | 87 | 02844 | 20417 | 80 | 01744 | 21314 | 8- | 02756 | 22116 | 87 | 02744 | 02228 |
| 430 | 30 | 02853 | 81315 | 83 | 02754 | 00085 | 20 | 05651 | 02124 | 27 | 02752 | 04127 |
| 409 | 36 | 02865 | 21416 | 36 | 01954 | 21124 | 36 | 01851 | 12111 | 36 | 01851 | 10301 |

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 28-10-42
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 * | cpRct | bcm₀ bcm | bfFewfe |
| Croydon | c₀m | c₀bcm | cfmfgcfe |
| Greenwich | cbc ⊕ | ctbc ⊕ | omfeF |
| Camden Square | c | o | * |
| *Kensington | bccpc | cbc | * |
| Hampstead | bcortl | bcp | c |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0.7 Time 20h on 27th. Min. 0.1 Time 13h on 27th.

| 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 | 53 | 36 | 28 | 1 | Tr | 3.0 | * | * |
| Croydon | 55 | 37 | 34 | 0.5 | Tr | 3.1 | * | * |
| Greenwich | 54 | 38 | 27 | – | Tr | 2.6 | 72 | 98 |
| Westminster | 55 | 40 | 34 | 0.1 | | | 82 | 98 |
| Regents Park | | | | | | | | |
| Camden Square | 53 | 39 | 32 | 5 | – | * | * | 98 |
| Kensington | 55 | 39 | 25 | 3 | Tr | | 94 | 95 |
| Hampstead | 53 | 41 | 31 | 0.3 | – | | * | 95 |

SECRET

Page 1 **BRITISH SECTION**

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

Thursday 29th October 1942

No. 29561

## OBSERVATIONS at 13h. G.M.T. 28th October

| 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) | Med. (11) | High (12) | Amount Low 0–10 (13) | Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 02·4 | -3 | NE'N | 2 | c/f | 50 | 85 | 46 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Croydon | 02·9 | -6 | - | 0 | f- | 45 | 97 | 45 | 2 | - | - | - | 10 | 10 | <150 |
| | S. Farnborough | 02·5 | -6 | - | 0 | om- | 47 | 97 | 45 | 4 | 5 | 3 | - | 4-6 | 10 | 1000 |
| | Boscombe Down | 02·8 | -6 | E'N | 2 | c | 52 | 75 | 45 | 7 | 2 | 7 | 6 | 1 | 9 | 2500 |
| | Thorney Island | 02·4 | +2 | NE | 2 | $z_0$ | 53 | 75 | 46 | 6 | 8 | 7 | - | 1 | 10 | 4000 |
| | Lympne | 00·8 | -10 | N | 2 | $iv_0$ | 50 | 92 | 48 | 6 | 5 | 2 | - | Tv | 10 | 2000 |
| | Manston | 01·3 | -8 | NNE | 2 | $r_0r_0$ | 50 | 92 | 47 | 6 | 6 | 2 | - | 4-6 | 10 | 1800 |
| 2 | Shoeburyness | 02·7 | -6 | N | 2 | $r_0r_0$ | 49 | 97 | 48 | 6 | 5 | - | - | 10 | 10 | 1300 |
| | Felixstowe | 01·7 | -6 | N'W | 2 | $r_0r_0$ | 50 | 97 | 49 | 6 | 6 | - | - | 10 | 10 | 2500 |
| | Gorleston | 02·4 | -8 | ENE | 3 | c | 54 | 85 | 48 | 7 | 5 | - | - | 10 | 10 | 2100 |
| | Mildenhall | 02·8 | -10 | N'W | 1 | z | 48 | 97 | 47 | 5 | 5 | 2 | - | 4-6 | 10 | 6000 |
| | Cranwell | 04·1 | -6 | NNW | 2 | $z_0$ | 48 | 85 | 45 | 6 | - | 7 | - | 0 | 9+ | - |
| 3 | Birmingham | 03·5 | 0 | E | 2 | m | 50 | 85 | 46 | 4 | - | - | 6 | 0 | 9 | - |
| | Upper Heyford | 02·4 | -10 | NNE | 2 | cjf | 49 | 75 | 43 | 5 | - | 7 | - | 0 | 10 | - |
| 4 | Ross-on-Wye | 03·7 | -4 | W | 1 | f- | 41 | 97 | 40 | 1 | - | - | - | 10 | 10 | <150 |
| 5 | Hartland Point | 01·7 | 0 | WNW | 3 | bc | 53 | 75 | 45 | 8 | 2 | 4 | - | 2-3 | 4-6 | 2500 |
| | Bristol | 03·5 | -6 | SE | 1 | $z_0$ | 56 | 65 | 46 | 6 | 2 | 4 | 2 | 4-6 | 7-8 | 2500 |
| | Portland Bill | 01·8 | -6 | NE | 3 | c | 54 | 85 | 48 | 8 | 4 | 2 | - | 4-6 | 10 | 4000 |
| | Plymouth | 01·5 | -2 | ESE | 2 | bc | 54 | 75 | 46 | 8 | 2 | 6 | 1 | 4-6 | 4-6 | 2500 |
| | The Lizard | 01·3 | +6 | SE | 3 | bc | 58 | 75 | 48 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| | Scilly (St. Mary's) | 00·6 | -2 | E'S | 1 | b-bc | 60 | 65 | 48 | 9 | 8 | 6 | - | 1 | 2-3 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 01·9 | +2 | S'E | 2 | c-bc | 55 | 75 | 46 | 8 | 2 | 6 | - | 4-6 | 7-8 | 2500 |
| 7 | Holyhead (Valley) | 02·9 | 0 | S | 1 | bc | 55 | 55 | 41 | 9 | 3 | 6 | - | Tv | 1 | 3000 |
| | Chester (Sealand) | 03·5 | -2 | ESE | 2 | c/f | 45 | 97 | 44 | 6 | 1 | - | 6 | Tv | 9+ | 3000 |
| 8 | Manchester | 03·8 | -2 | SE'S | 2 | c-bc | 55 | 65 | 43 | 8 | 2 | - | 6 | 2-3 | 7-8 | 2500 |
| 10 | Spurn Head | 04·5 | -2 | ENE | 3 | $z_0$ | 52 | 85 | 49 | 6 | 5 | 1 | - | 4-6 | 10 | 4000 |
| | Catterick | 06·9 | +2 | - | 0 | m | 46 | 85 | 41 | 4 | - | 5 | - | 0 | 7-8 | - |
| | Tynemouth | 06·1 | +4 | ENE | 3 | m | 48 | 85 | 44 | 4 | - | 3 | - | 0 | 4-6 | - |
| 11 | St. Abbs Head | 05·8 | +10 | SE | 1 | bc | 49 | 75 | 42 | 7 | 5 | 4 | - | 2-3 | 4-6 | 5000 |
| | Leuchars | 05·6 | +10 | ENE | 2 | $z_0$ | 51 | 85 | 47 | 6 | 8 | 4 | 4 | 4-6 | 4-6 | 4000 |
| 12 | Renfrew (Abbots I.) | 04·9 | +6 | ENE | 2 | bc/f | 48 | 85 | 42 | 5 | 8 | 3 | - | 4-6 | 4-6 | 3000 |
| | Eskdalemuir | 04·3 | +8 | E'S | 3 | bc | 48 | 75 | 40 | 8 | 7 | 7 | 4 | 2-3 | 4-6 | 2500 |
| | Point of Ayre | 03·3 | +6 | S'W | 3 | b-bc | 52 | 75 | 44 | 7 | 2 | - | - | 2-3 | 2-3 | 3000 |
| 13A | Tiree | 08·8 | +12 | SE'E | 4 | cjp | 48 | 75 | 41 | 7 | 8 | 9 | - | 2-3 | 9 | 2500 |
| 13B | Stornoway | 07·0 | +10 | ENE | 5 | c/pr | 48 | 92 | 44 | 8 | 5 | 7 | - | 7-8 | 9 | 2000 |
| 15 | Dalwhinnie | 06·3 | +16 | SE | 2 | c | 44 | 85 | 41 | 8 | 5 | - | - | 9 | 9 | 2500 |
| | Aberdeen | 06·9 | +6 | ESE | 2 | bc | 53 | 65 | 41 | 8 | 2 | - | 6 | 1 | 4-6 | 3500 |
| | Wick | 08·3 | +12 | NE | 4 | c | 48 | 75 | 40 | 8 | 8 | 3 | 4 | 7-8 | 9+ | 1500 |
| 16 | Sumburgh | 11·4 | +20 | ENE | 4 | c-bc | 46 | 75 | 37 | 8 | 8 | 3 | - | 4-6 | 7-8 | 2500 |
| 17 | Blacksod Point | 02·5 | -6 | - | 0 | c-bc | 48 | 75 | 40 | 8 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 18 | Malin Head | 01·8 | +10 | S | 2 | bc | 50 | 65 | 39 | 8 | 2 | 4 | - | 4-6 | 4-6 | 2500 |
| | Aldergrove | 02·7 | +2 | SE | 1 | bc | 53 | 55 | 38 | 8 | 2 | - | - | 4-6 | 4-6 | 3500 |
| 19 | *Birr Castle | 02·5 | +4 | NW | 2 | c-bc | 44 | 85 | 40 | 7 | - | - | 5 | 0 | 7-8 | - |
| 20 | Valentia Obsy. | 02·7 | +4 | N | 3 | c | 48 | 75 | 40 | 9 | 8 | - | - | 9 | 9 | 2500 |
| | Roches Point | 01·7 | 0 | N | 3 | b-bc | 44 | 85 | 40 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 28th October

| 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) | 02·3 | -4 | NE | 2 | c/d | 48 | 85 | 44 | 5 | 5 | 1 | - | 4-6 | 9+ | 1500 | 1 | * |
| Croydon | 03·1 | +2 | NNE | 1 | cf | 47 | 92 | 45 | 3 | - | - | - | 10 | 10 | <150 | 1 | * |
| S. Farnborough | 02·7 | +4 | WNW | 1 | $iv_0f$ | 48 | 85 | 44 | 3 | 5 | 7 | - | 4-6 | 9+ | 2500 | 1 | * |
| Boscombe Down | 04·0 | +10 | - | 0 | $m_0$ | 47 | 92 | 46 | 5 | - | 7 | - | 0 | 7-8 | - | 0 | * |
| Thorney Island | 03·2 | +10 | - | 0 | c-bcft | 47 | 92 | 45 | 3 | - | 7 | - | 0 | 7-8 | - | | * |
| Lympne | 00·9 | +4 | SE'S | 4 | $r_0r_0$ | 47 | 97 | 46 | 6 | 6 | 2 | - | 9 | 10 | 600 | 1 | § |
| Manston | 01·3 | +10 | NW | 3 | rr | 48 | 92 | 46 | 5 | 6 | 2 | - | 4-6 | 10 | 900 | 1 | * |
| Shoeburyness | 03·0 | +6 | N'W | 3 | rr | 48 | 92 | 46 | 5 | - | 2 | - | 10 | 10 | 1000 | 1 | * |
| Felixstowe | 01·2 | +2 | NW | 4 | $r_0r_0$ | 47 | 92 | 45 | 7 | - | 2 | - | 10 | 10 | 4000 | 1 | 2 |
| Gorleston | 00·2 | -18 | N'E | 5 | $r_0r_0$ | 50 | 92 | 47 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | 4 |
| Mildenhall | 03·2 | +8 | NNW | 3 | $r_0r_0$ | 48 | 97 | 47 | 6 | - | 2 | - | 10 | 10 | 4000 | 1 | * |
| Cranwell | 04·4 | +2 | N | 2 | cf+ | 45 | 97 | 45 | 3 | - | 2 | - | 0 | 10 | - | 0 | * |
| Birmingham | 04·3 | +2 | NE | 2 | cf+ | 48 | 85 | 44 | 3 | - | - | 7 | 0 | 10 | - | 1 | * |
| Upper Heyford | 03·1 | +4 | N | 2 | $z_0$ | 45 | 92 | 43 | 5 | 1 | 7 | - | 1 | 9 | 2000 | 1 | * |
| Ross-on-Wye | 04·1 | +4 | W | 2 | cF+ | 41 | 97 | 40 | 1 | - | - | 8 | 0 | 1 | - | 1 | * |
| Hartland Point | 02·2 | +6 | ESE | 3 | c-bc | 49 | 85 | 44 | 8 | 5 | 4 | - | 4-6 | 7-8 | 2500 | 1 | 3 |
| Bristol | 02·8 | +14 | - | 0 | b-bcf | 45 | 92 | 43 | 3 | - | 4 | 8 | 0 | 2-3 | - | 1 | * |
| Portland Bill | 02·0 | +4 | ENE | 3 | c-bc | 51 | 85 | 47 | 8 | 2 | 4 | - | 4-6 | 7-8 | 4000 | 1 | 3 |
| Plymouth | 02·0 | +6 | ESE | 2 | $z_0$ | 48 | 85 | 45 | 6 | 3 | 6 | 5 | 2-3 | 2-3 | 4000 | 1 | 2 |
| The Lizard | 00·6 | -6 | ESE | 3 | bc | 50 | 75 | 43 | 8 | 8 | 6 | - | 2-3 | 4-6 | 2500 | 1 | 3 |
| Scilly (St. Mary's) | 00·3 | -2 | E | 2 | bc | 49 | 85 | 46 | 9 | 8 | 6 | 5 | 2-3 | 4-6 | 1200 | 1 | 2 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 02·3 | +4 | ESE | 3 | c-bc | 51 | 75 | 45 | 8 | 8 | 6 | - | 4-6 | 7-8 | 2500 | 1 | 2 |
| Holyhead (Valley) | 03·8 | +8 | E'N | 1 | bc | 45 | 85 | 41 | 7 | 3 | 4 | - | 1 | 1 | 3000 | 1 | 1 |
| Chester (Sealand) | 04·4 | +8 | E'S | 1 | cf+ | 44 | 85 | 40 | 2 | - | - | 6 | 0 | 10 | - | 1 | * |
| Manchester | 04·5 | +2 | ENE | 2 | bf+ | 45 | 92 | 43 | 3 | - | - | - | 0 | 0 | - | 1 | * |
| Spurn Head | 04·7 | 0 | NNE | 3 | $d_0d_0$ | 51 | 97 | 50 | 6 | 8 | 2 | - | 4-6 | 10 | 4000 | 1 | 3 |
| Catterick | 06·3 | +4 | - | 0 | f+ | 44 | 92 | 42 | 3 | - | - | - | 10 | 10 | <150 | 1 | * |
| Tynemouth | 06·8 | +6 | E | 3 | $z_0$ | 49 | 92 | 46 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| St. Abbs Head | 13·3 | +6 | SSW | 2 | $z_0$ | 49 | 75 | 42 | 6 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | 2 |
| Leuchars | 07·2 | +12 | - | 0 | c-bc | 47 | 92 | 45 | 7 | 8 | 4 | 6 | 2-3 | 7-8 | 3000 | 1 | * |
| Renfrew (Abbots I.) | 06·2 | +10 | E | 2 | m | 45 | 85 | 40 | 4 | 4 | 4 | 1 | 2-3 | 2-3 | 3500 | 1 | * |
| Eskdalemuir | 06·2 | +16 | NE'E | 2 | bc | 41 | 85 | 37 | 6 | 5 | 4 | - | 4-6 | 4-6 | 2200 | 1 | * |
| Point of Ayre | 04·2 | +10 | SE'E | 3 | b | 50 | 85 | 43 | 7 | 2 | - | - | 1 | 1 | 2500 | 1 | 3 |
| Tiree | 06·3 | +22 | E'S | 1 | tlh | 44 | 85 | 41 | 6 | 3 | 6 | - | 9 | 9+ | 1500 | 1 | |
| Stornoway | 08·6 | +20 | E | 5 | c/r | 47 | 85 | 40 | 7 | 5 | 7 | - | 7-8 | 9 | 2500 | 1 | 3 |
| Dalwhinnie | 07·4 | +16 | ESE | 2 | oc | 35 | 85 | 32 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 0 | * |
| Aberdeen | 08·6 | +16 | E'S | 2 | c | 49 | 85 | 45 | 7 | 9 | - | - | 9+ | 9+ | 1500 | 1 | |
| Wick | 10·2 | +12 | NE | 5 | $pr_0$ | 47 | 85 | 43 | 7 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Sumburgh | 14·0 | +18 | ENE | 5 | c-bc | 45 | 75 | 36 | 8 | 5 | 3 | - | 7-8 | 7-8 | 2500 | 1 | |
| Blacksod Point | 03·5 | +10 | SE | 1 | b | 44 | 85 | 39 | 8 | 1 | - | - | 1 | 1 | 1500 | 1 | 2 |
| Malin Head | 03·4 | +12 | S | 2 | bc | 48 | 75 | 41 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 | 2 | 2 |
| Aldergrove | 04·5 | +16 | ENE | 1 | b-bc | 43 | 85 | 39 | 7 | 8 | - | - | 2-3 | 2-3 | 3700 | 1 | * |
| *Birr Castle | 03·3 | +8 | ESE | 1 | c | 43 | 92 | 41 | 7 | 8 | - | - | 9 | 9 | 800 | 1 | * |
| Valentia Obsy. | 02·8 | +4 | E | 3 | b-bc | 44 | 75 | 37 | 9 | 8 | - | - | 2-3 | 2-3 | 4000 | 1 | 3 |
| Roches Point | 02·4 | +6 | N | 3 | b | 45 | 85 | 41 | 8 | 2 | - | - | 1 | 1 | 2500 | 1 | 2 |

## PAST 24 HOURS — WEATHER

| Stations | 7h.—13h. 28th (39) | 13h.—18h. 28th (40) | 18h. 28th to 1h. 29th (41) | 1h.—7h. 29th (42) |
|---|---|---|---|---|
| London (Kew) | $Fetcm_0$ | $cr_0r_0d_0cm$ | cmbcffw | bcffcmw |
| Croydon | cefoF | $ofr_0r_0cfir_0$ | pFc | oFofcfc |
| S. Farnborough | oFcfecm | $cmm_0iv_0f_0$ | $civ_0foFw$ | ofcwejfm |
| Boscombe Down | $bcfgm_0c$ | ccm | bcmcfcm | $cm_0cfm$ |
| Thorney Island | cwc | cmfw | irfcmw | $cmcm_0w$ |
| Lympne | $cm_0iv_0$ | $cm_0r_0r_0$ | $bm_0cm$ | [illegible] |
| Manston | $cr_0r_0RRm_0$ | $cr_0r_0rrm_0$ | $cbcm_0$ | $bccm_0$ |
| Shoeburyness | $pcr_0r_0$ | $r_0r_0orrm_0$ | $prrm_0cm_0$ | $cm_0c$ |
| Felixstowe | $cr_0r_0$ | $cr_0r_0m_0r_0r_0$ | $cr_0r_0mbcm$ | $bcm_0bm_0cm_0$ |
| Gorleston | $cir_0c$ | $dor_0r_0$ | cbc | $bccz_0$ |
| Mildenhall | $cm_0cmcm_0$ | $cm_0cr_0r_0m_0$ | $cr_0r_0m_0c$ | $ccid_0cm_0$ |
| Cranwell | $cFexcm_0$ | $cm_0cmcf$ | $cr_0r_0fbm_0$ | $bm_0,cm_0$ |
| Birmingham | Fbccm | $cm_0$ | cm | cf |
| Upper Heyford | $cjfm_0$ | $cjfcm_0$ | F | $Fecm_0$ |
| Ross-on-Wye | FFz | cfbcf | Fce | Fcf |
| Hartland Point | bc | $bcr_0cl$ | cltbcc | cl |
| Bristol | $bxm_0bm_0$ | $bm_0bmbf$ | bfxoF,c | oFeom |
| Portland Bill | cc | c | oa | o |
| Plymouth | bcfbc | $bcm_0$ | $bcm_0cm$ | $cm_0$ |
| The Lizard | bc | bc | bcc | crrqc |
| Scilly (St. Mary's) | bc | bc | bcel | $cir_0$ |
| Guernsey | | | | |
| Pembroke | cbc | bc | bcl | $bcm_0$ |
| Holyhead (Valley) | bkwtg | bcb | bfqw | bmw |
| Chester (Sealand) | bcffm | $bcm_0mc$ | cF | F |
| Manchester | $bcffm_0$ | $bccm_0m$ | bff | FP |
| Spurn Head | $cm_0$ | $cm_0d_0$ | cqrr | cqrcq |
| Catterick | oF | $cmm_0oF$ | $od_0f_0cm$ | $cm_0bm_0cm_0$ |
| Tynemouth | bcffm | $bccm_0$ | circl | oirc |
| St. Abbs Head | $bcm_0bzm_0bc$ | $bcz m_0$ | $cm_0oprm_0$ | $or_0rr$ |
| Leuchars | $cm_0bcm$ | $bcm_0bcc$ | $cm_0w$ | $cpr_0m_0rrm_0$ |
| Renfrew (Abbots I.) | $dfFfm_0$ | $bcm_0$ | bbcm | $cbcmcm_0$ |
| Eskdalemuir | bcbbc | $bcm_0$ | $bcem_0$ | $cpr_0c$ |
| Point of Ayre | mircb | bbccb | bbccb | $z_0wb$ |
| Tiree | $cpr_0c$ | prbctlhf | ctlrbcc | bcbbc |
| Stornoway | cpr | cir | $cp_0rpc$ | cpr |
| Dalwhinnie | cpc | cbc | $cir_0$ | circ |
| Aberdeen | $cbcbm_0c$ | | $cir_0$ | circ |
| Wick | bccjpc | $bcp_0rc$ | $cp_0rpr$ | $cpr_0pr_0$ |
| Sumburgh | bccbc | bcc | $bccpr_0$ | $cpr_0c$ |
| Blacksod Point | c | | b | b |
| Malin Head | r | bc | bc | bc |
| Aldergrove | bbcy | bcybc | bcbbcb | $bbcbm_0x$ |
| *Birr Castle | c | pr | * | c |
| Valentia Obsy. | pr | pr | b | bc |
| Roches Point | bc | bc | b | bc |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 29th October

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands | Light variable wind becoming moderate or fresh southeast. Cloudy; occasional rain later; rather cold during day: moderate night temperature: milder to-morrow. |
| 5 S.W. England North ▼ South ▲; 6 South Wales ▼ | Fresh or strong southeast to south wind, gale locally on Southern coast. Cloudy with rain; rather cold during day, moderate night temperature; milder tomorrow. |
| 7 North Wales; 8 N.W. England | Light easterly wind; mainly cloudy but some bright intervals at first; rain later; rather cold. |
| 9 N. Midlands; 10 N.E. England ▲; 11 S.E. Scotland ▲ | Fresh north to northeast wind, gale on coast. Cloudy with rain: cold. |
| 12 S.W. Scotland & Isle of Man | As 7-8 |
| 13A W. Scotland; 13B N.W. Scotland | Moderate or fresh northeast wind; mainly cloudy but some bright intervals at first; rain later; rather cold. |
| 14 Mid Scotland; 15 N.E. Scotland ▲ | As 9-11 |
| 16 Orkneys and Shetlands ▲ | Fresh or strong northeast wind, perhaps gale later; cloudy. rain later: cold. |
| 17 N. W. Ireland; 18 N. E. Ireland | As 7-8 |
| 19 S. E. Ireland ▼; 20 S. W. Ireland ▼ | Moderate or fresh east wind: cloudy; some rain later: rather cold. |

### GENERAL INFERENCE

A depression over the North Sea is moving slowly west-northwest and a deep depression over the Bay of Biscay is extending its influence northeast. Rain will occur in the Southwest and also in the Northeast. Elsewhere, it will be mainly cloudy with slight rain locally, but bright periods will occur in the North and West at first.

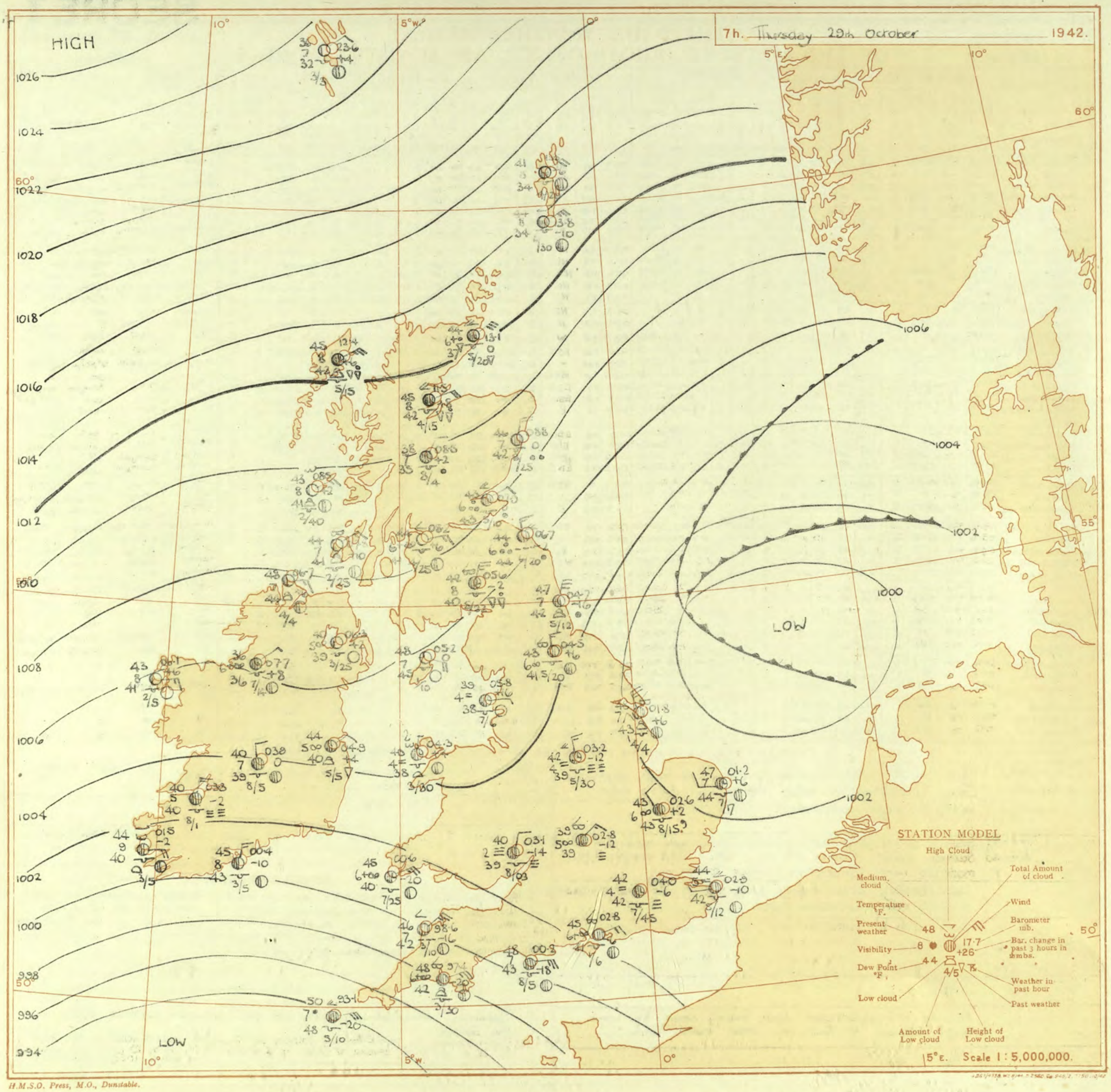
### FURTHER OUTLOOK.

Continuing unsettled with occasional rain in most districts. Milder in the South.

▲ Gale warning in operation in districts 16, 15, 11, 10; issued 1020, 29.10.42, and in S.5 at 0615, 29.10.42 ▼ Gale in districts 5 N, 6 S, 19 and 20; time of issue 1050, 29.10.42.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

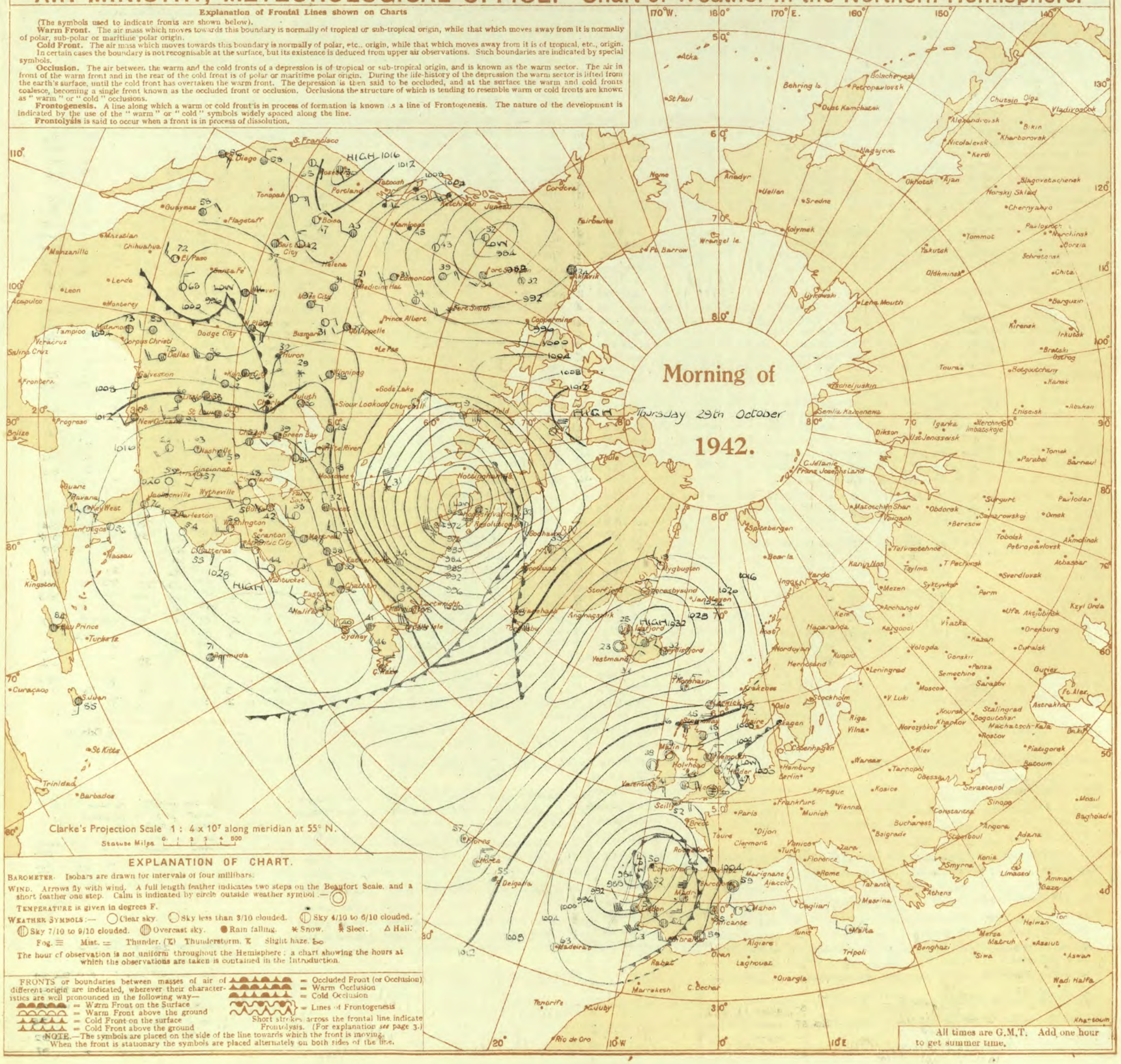
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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. (ϟ) Thunderstorm. ϟ 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 one hour to get summer time.

Page 4.

BRITISH SECTION

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

Thursday 29th October 1942

No. 23561

## OBSERVATIONS at 1 hr. G.M.T. 29th October

| 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 | * | * | * | * | * | 40 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 03·9 | -6 | - | 0 | F- | 40 | 97 | 40 | 0 | - | - | - | 0 | 0 | <150 |
| | S. Farnborough | 226 | 03·0 | -10 | - | 0 | F+ | 40 | 92 | 38 | 1 | - | - | - | 0 | 0 | <150 |
| | Boscombe Down | 417 | 03·6 | -6 | NE'E | 3 | o/f | 43 | 97 | 42 | 5 | - | - | 7 | 0 | 10 | - |
| | Thorney Island | 10 | 03·4 | -6 | ESE | 1 | o/f | 40 | 97 | 40 | 4 | - | 1 | - | 0 | 10 | - |
| | Lympne | 283 | 01·3 | +6 | NW | 3 | z0 | 41 | 97 | 41 | 6 | - | 1 | - | 0 | 10 | - |
| | Manston | 154 | 02·4 | -2 | NW | 4 | z0 | 47 | 85 | 43 | 6 | 5 | 7 | - | 2-3 | 7-8 | 300 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 01·3 | -2 | NW | 3 | z0 | 47 | 85 | 43 | 6 | - | 1 | - | 0 | 4-6 | - |
| | Gorleston | 5 | 99·0 | -4 | N'W | 4 | bc | 47 | 85 | 43 | 7 | 5 | 4 | - | 2-3 | 4-6 | 2500 |
| | Mildenhall | 15 | 02·0 | -10 | NW'W | 3 | c | 43 | 97 | 42 | 8 | 5 | 7 | - | 4-6 | 9 | 2000 |
| | Cranwell | 203 | 03·7 | -12 | NNW | 3 | z0 | 44 | 85 | 40 | 6 | 5 | - | - | Tr | Tr | 3000 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 03·4 | -4 | N | 2 | F | 41 | 97 | 41 | 1 | - | - | - | 10 | 10 | <150 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 01·6 | -6 | E | 3 | l | 47 | 85 | 44 | 6 | 5 | 1 | 8 | 4-6 | 9+ | 2500 |
| | Bristol | 209 | 04·5 | -2 | SW | 1 | F | 38 | 97 | 38 | 1 | - | - | - | 10 | 10 | <150 |
| | Portland Bill | 32 | 03·2 | -10 | E | 4 | o | 48 | 82 | 44 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | 01·2 | -8 | SE | 3 | z0 | 49 | 92 | 47 | 6 | 5 | 1 | - | 4-6 | 10 | 1000 |
| | The Lizard | 240 | 98·4 | -18 | ESE | 5 | c | 53 | 85 | 47 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 |
| | Scilly (St. Mary's) | 163 | 97·7 | -22 | E'S | 4 | e | 52 | 75 | 43 | 8 | 5 | - | - | 10 | 10 | 1200 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 03·1 | -2 | E'N | 4 | bc | 44 | 85 | 41 | 8 | 2 | 3 | - | 2-3 | 4-6 | 3000 |
| 7 | Holyhead (Valley) | 32 | 04·2 | 0 | NE | 1 | z0 | 39 | 92 | 37 | 6 | - | - | - | 0 | 0 | - |
| | Chester (Sealand) | 16 | 05·5 | +14 | - | 0 | F | 36 | 97 | 35 | 0 | - | - | - | 10 | 10 | <150 |
| 8 | Manchester | 235 | 05·7 | +2 | N'E | 2 | cf | 37 | 97 | 36 | 3 | 5 | 3 | - | 7-8 | 9 | 2500 |
| 10 | Spurn Head | 29 | 02·8 | -18 | N'E | 5 | c-bc | 47 | 85 | 44 | 7 | 8 | - | - | 7-8 | 7-8 | 4000 |
| | Catterick | 175 | 06·3 | -6 | N | 3 | m/f | 45 | 85 | 40 | 4 | 5 | 3 | - | 1 | 9 | 2500 |
| | Tynemouth | 108 | 07·5 | +2 | NE | 3 | o/r | 47 | 92 | 45 | 7 | - | 2 | - | 10 | 10 | 1500 |
| 11 | St. Abbs Head | 280 | 07·1 | 0 | NNE | 1 | o | 49 | 92 | 47 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars | 36 | 07·9 | +2 | - | 0 | pr0 | 45 | 97 | 45 | 6 | 8 | 2 | - | 7-8 | 10 | 1800 |
| 12 | Renfrew (Abbots I.) | 19 | 07·6 | +2 | - | 0 | m | 39 | 97 | 38 | 4 | 5 | - | - | 7-8 | 7-8 | 2000 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 09·5 | +4 | ESE | 2 | b-bc | 49 | 85 | 44 | 7 | 2 | 4 | - | 2-3 | 2-3 | 3000 |
| 13A | Tiree | 22 | 08·3 | +6 | E | 1 | b | 42 | 85 | 37 | 8 | - | 3 | 1 | 0 | 1 | - |
| 13B | Stornoway | 80 | 11·3 | +10 | ENE | 5 | pr0 | 46 | 97 | 45 | 7 | 6 | 2 | - | 9+ | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 03·1 | +2 | ENE | 3 | t | 48 | 92 | 46 | 7 | 9 | - | - | 7-8 | 10 | 1500 |
| | Wick | 114 | 12·9 | +20 | NE'E | 5 | pr0 | 45 | 85 | 40 | 7 | 8 | 7 | - | 7-8 | 9+ | 1900 |
| 16 | Sumburgh | 19 | 15·5 | 0 | ENE | 6 | pr0 | 43 | 75 | 35 | 7 | 2 | 7 | 6 | 7-8 | 9+ | 2500 |
| 17 | Blacksod Point | 18 | 05·7 | +8 | - | 0 | b-bc | 39 | 85 | 34 | 8 | 1 | 4 | - | 1 | 2-3 | 2500 |
| 18 | Malin Head | 84 | 06·5 | +4 | - | 0 | b | 41 | 85 | 37 | 8 | 2 | - | - | 1 | 1 | 2500 |
| | Aldergrove | 268 | 06·2 | +6 | ENE | 2 | b-bc | 42 | 92 | 40 | 8 | - | 4 | - | 0 | 2-3 | - |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 02·5 | -6 | E'N | 3 | b | 41 | 75 | 34 | 9 | 1 | - | - | Tr | Tr | 2500 |
| | Roches Point | 22 | 02·3 | -6 | N | 3 | b | 41 | 97 | 40 | 8 | 5 | - | - | 1 | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 29th October

| 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) | 02·6 | -10 | NNE | 1 | m | 43 | 97 | 41 | 4 | 5 | 2 | - | 9 | 10 | 2500 | 1 | * |
| Croydon | 04·0 | -6 | - | 0 | m | 42 | 97 | 42 | 4 | 5 | - | - | 9+ | 9+ | 4500 | 1 | * |
| S. Farnborough | 02·6 | -14 | NE | 1 | ojf | 41 | 97 | 40 | 4 | 5 | - | - | 10 | 10 | 1200 | 1 | * |
| Boscombe Down | 02·7 | -8 | ENE | 3 | z0 | 41 | 97 | 40 | 6 | - | 7 | - | 0 | 10 | - | 0 | * |
| Thorney Island | 02·8 | -6 | ENE | 3 | z0 | 45 | 85 | 41 | 6 | 5 | 7 | - | Tr | 10 | 4000 | 1 | * |
| Lympne | 02·8 | -10 | NNW | 1 | z0 | 43 | 97 | 42 | 6 | 5 | 4 | 6 | 4-6 | 10 | 2700 | 1 | § |
| Manston | 02·9 | -10 | W | 1 | fg | 44 | 92 | 42 | 5 | 5 | 2 | - | 7-8 | 10 | 1200 | 1 | * |
| Shoeburyness | 03·7 | -6 | NW | 3 | c | 43 | 92 | 41 | 6 | 5 | 2 | - | 9 | 10 | 6000 | 1 | * |
| Felixstowe | 02·3 | -6 | W | 2 | z0 | 45 | 92 | 43 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 2 |
| Gorleston | 01·2 | +6 | WNW | 2 | c | 47 | 85 | 44 | 7 | 5 | - | - | 9+ | 9+ | 1700 | 1 | 3 |
| Mildenhall | 02·6 | +2 | NW | 2 | z0 | 43 | 97 | 43 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Cranwell | 02·9 | -6 | WNW | 3 | z0 | 42 | 85 | 39 | 6 | 5 | 7 | 1 | 4-6 | 10 | 2000 | 1 | * |
| Birmingham | 03·7 | -12 | NE | 2 | c-bcf | 38 | 92 | 36 | 2 | - | 7 | - | 0 | 7-8 | - | 1 | * |
| Upper Heyford | 02·8 | -12 | NE'N | 3 | z0 | 39 | 97 | 39 | 5 | - | 7 | - | 0 | 10 | - | 1 | * |
| Ross-on-Wye | 03·1 | -14 | N'E | 1 | of | 40 | 97 | 39 | 2 | 5 | - | - | 10 | 10 | 300 | 1 | * |
| Hartland Point | 98·6 | -16 | NE | 5 | c | 46 | 85 | 42 | 7 | 6 | 1 | - | 2-3 | 10 | 1000 | 1 | 4 |
| Bristol | 03·4 | -6 | ENE | 1 | z0 | 40 | 97 | 39 | 5 | 5 | 7 | 6 | 2-3 | 9+ | 5700 | 1 | * |
| Portland Bill | 00·2 | -18 | E | 5 | o | 48 | 85 | 43 | 7 | 5 | - | - | 10 | 10 | 2500 | | 5 |
| Plymouth | 97·4 | -20 | ENE | 5 | z0 | 48 | 75 | 42 | 6 | 8 | 7 | - | 2-3 | 10 | 3000 | 1 | 4 |
| The Lizard | 92·6 | -26 | ESE | 8 | rr | 51 | 92 | 49 | 8 | 8 | 2 | - | 9 | 10 | 1500 | 1 | 6 |
| Scilly (St. Mary's) | 93·1 | -20 | E'N | 6 | ir0 | 50 | 92 | 48 | 7 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 00·6 | -20 | ENE | 5 | z0 | 45 | 85 | 40 | 6 | 5 | — | - | 9+ | 9+ | 2500 | 1 | 3 |
| Holyhead (Valley) | 04·3 | +4 | N'E | 1 | m | 40 | 92 | 38 | 4 | 7 | 3 | 6 | 2-3 | 9 | 3000 | 1 | 2 |
| Chester (Sealand) | 05·1 | -2 | - | 0 | F- | 37 | 97 | 36 | 1 | - | - | - | 10 | 10 | <150 | 1 | * |
| Manchester | 05·3 | +6 | - | 0 | cbcF- | 34 | 97 | 34 | 1 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Spurn Head | 01·8 | +6 | NNW | 5 | cq | 48 | 85 | 43 | 7 | 8 | 7 | - | 4-6 | 10 | 1500 | 1 | 4 |
| Catterick | 04·5 | +6 | N'W | 3 | z0 | 43 | 92 | 41 | 6 | 5 | 7 | - | 7-8 | 7-8 | 2000 | 1 | * |
| Tynemouth | 04·7 | -16 | NNE | 6 | c-bc | 47 | 85 | 42 | 7 | 2 | - | - | 7-8 | 7-8 | 1200 | 1 | 4 |
| St. Abbs Head | 06·7 | -2 | N | 3 | rr | 44 | 97 | 44 | 6 | 6 | 2 | - | 9 | 10 | 2000 | 1 | 3 |
| Leuchars | 07·9 | 0 | NE | 2 | rr | 43 | 97 | 43 | 6 | 5 | 2 | - | 7-8 | 10 | 1000 | 1 | * |
| Renfrew (Abbots I.) | 08·2 | +6 | E'N | 3 | z0 | 44 | 85 | 41 | 6 | 5 | 1 | - | 4-6 | 9 | 2500 | 1 | * |
| Eskdalemuir | 05·6 | -2 | NNE | 5 | c/pr | 42 | 92 | 40 | 8 | 5 | 7 | - | 7-8 | 9 | 2200 | 1 | * |
| Point of Ayre | 05·2 | 0 | E'S | 4 | b | 48 | 85 | 45 | 7 | 5 | - | - | Tr | Tr | 1000 | 1 | 3 |
| Tiree | 08·5 | +2 | ENE | 3 | b-bc | 43 | 92 | 41 | 8 | 8 | 3 | - | 1 | 2-3 | 4000 | 1 | |
| Stornoway | 12·4 | +6 | ENE | 5 | c/pr | 45 | 85 | 42 | 8 | 8 | 7 | - | 7-8 | 9+ | 1500 | 1 | 3 |
| Dalwhinnie | 08·5 | +2 | NNE | 2 | o | 38 | 85 | 35 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Aberdeen † | 08·8 | 0 | N'E | 4 | o/r | 46 | 85 | 42 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 |
| Wick | 13·1 | 0 | NE | 6 | pr | 44 | 75 | 37 | 6 | 5 | 2 | - | 7-8 | 10 | 2000 | 1 | * |
| Sumburgh | 13·8 | -10 | NE'E | 5 | c | 44 | 65 | 34 | 8 | 5 | 1 | - | 9 | 10 | 3000 | 1 | 4 |
| Blacksod Point | 06·1 | +6 | E | 3 | b | 43 | 92 | 41 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | 3 |
| Malin Head | 06·7 | +6 | E'S | 3 | bc | 48 | 85 | 44 | 7 | 2 | - | - | 4-6 | 4-6 | 1500 | 2 | 2 |
| Aldergrove | 06·3 | +2 | - | 0 | z0 | 40 | 97 | 39 | 5 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| Birr Castle | 03·9 | 0 | N | 1 | c | 40 | 97 | 39 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Valentia Obsy. | 01·5 | -2 | E | 4 | c-bc | 44 | 85 | 40 | 9 | 7 | 3 | 1 | 2-3 | 7-8 | 2500 | 1 | 3 |
| Roches Point | 00·4 | -10 | N | 3 | bc | 45 | 92 | 43 | 8 | 5 | - | 5 | 2-3 | 4-6 | 2500 | 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 28th Hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | (50) | 38 | 29 | 2 | Tr | 0·0 |
| Croydon | 48 | 39 | 36 | 3 | 1 | 0·0 |
| S. Farnborough | 49 | 37 | 31 | 0·1 | Tr | 0·0 |
| Boscombe Down | 53 | 38 | 32 | | Tr | 3·6 |
| Thorney Island | 53 | 39 | 32 | - | Tr | * |
| Lympne | 51 | 40 | 39 | 6 | Tr | 0·0 |
| Manston | 52 | 44 | 42 | 11 | 1 | x |
| Shoeburyness | 50 | 41 | 34 | 9 | 2 | 0·0 |
| Felixstowe | 51 | 44 | 42 | 8 | 2 | 0·0 |
| Gorleston | 55 | 46 | 42 | 4 | 13 | 0·0 |
| Mildenhall | 51 | 38 | 35 | 3 | 3 | 0·0 |
| Cranwell | 48 | 40 | 37 | - | 0·5 | 0·0 |
| Birmingham | 50 | 36 | 30 | Tr | - | 1·4 |
| Upper Heyford | 49 | 38 | 35 | - | - | * |
| Ross-on-Wye | 46 | 36 | 33 | Tr | 0·1 | 0·9 |
| Hartland Point | 56 | 45 | 44 | Tr | - | 6·2 |
| Bristol | 56 | 35 | 26 | - | Tr | 7·0 |
| Portland Bill | 59 | 47 | * | - | - | * |
| Plymouth | 57 | 45 | 37 | - | - | 7·1 |
| The Lizard | 59 | 50 | * | - | 3 | 7·2 |
| Scilly (St. Mary's) | 60 | 49 | * | - | 0·4 | 8·3 |
| Guernsey | | | | | | |
| Pembroke | 55 | 41 | * | Tr | - | 4·4 |
| Holyhead (Valley) | 56 | 37 | 30 | - | - | * |
| Chester (Sealand) | 50 | 34 | 31 | - | Tr | 2·4 |
| Manchester | 55 | 33 | 27 | - | - | * |
| Spurn Head | 52 | 45 | * | Tr | 12 | 0·0 |
| Catterick | 48 | 42 | 38 | - | 0·6 | 2·3 |
| Tynemouth | 50 | 45 | 43 | - | 6 | * |
| St. Abbs Head | 51 | 43 | * | - | 5 | * |
| Leuchars | 52 | 41 | 37 | - | 12 | 7·1 |
| Renfrew (Abbots I.) | 48 | 37 | 30 | 0·1 | Tr | 0·4 |
| Eskdalemuir | 49 | 38 | 36 | - | Tr | 5·7 |
| Point of Ayre | 52 | 47 | * | 0·2 | - | 2·0 |
| Tiree | 49 | 41 | * | 6 | 1 | 1·1 |
| Stornoway | 48 | 44 | * | 2 | 1 | 0·1 |
| Dalwhinnie | 47 | 35 | 27 | 0·3 | 2 | 2·5 |
| Aberdeen † | 52 | 46 | 43 | 0·4 | 1 | 6·3 |
| Wick | 48 | 43 | 41 | 0·3 | 2 | * |
| Sumburgh | 47 | 43 | 38 | 0·3 | Tr | 63 |
| Blacksod Point | 49 | 35 | * | 1 | 0·2 | * |
| Malin Head | 50 | 38 | | Tr | - | 4·3 |
| Aldergrove | 53 | 39 | 29 | - | | 6·3 |
| Birr Castle | 46 | 30 | 27 | 1 | | 04·2 |
| Valentia Obsy. | 49 | 38 | 31 | Tr | Tr | 3·1 |
| Roches Point | 52 | 40 | * | Tr | Tr | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 28th October IIIC_L C_M | wwVhN_h | DDFWN | 18h. G.M.T. C_L C_M | wwVhN_h | DDFWN | 01h. G.M.T. 29th October C_L C_M | wwVhN_h | DDFWN | 07h. G.M.T. C_L C_M | wwVhN_h | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 87 | 81645 | 05485 | 36 | 02864 | 37685 | 57 | 02755 | 37586 | 52 | 61856 | 34668 |
| 115 87 | 02834 | 04586 | | | | | | | | | |
| 203 8- | 02946 | 08426 | | | | | | | | | |
| 206 83 | 25854 | 06385 | 86 | 02864 | 06314 | 9- | 81748 | 06228 | 57 | 22844 | 06488 |
| 210 86 | 02754 | 10316 | 56 | 02862 | 04113 | 8- | 23745 | 39598 | 8- | 02844 | 39628 |
| 220 57 | 02955 | 14416 | 50 | 01754 | 12214 | | | | | | |
| 230 16 | 01864 | 06224 | 4- | 01853 | 06113 | 07 | 01890 | 06113 | 42 | 01764 | 80024 |
| 245 26 | 02963 | 14315 | 2- | 02754 | 06316 | 52 | 28646 | 04298 | 52 | 62646 | 03368 |
| 260 18 | 05663 | 04245 | 38 | 05564 | 04225 | 01 | 45290 | 00048 | 62 | 64854 | 32268 |
| 278 86 | 02745 | 09215 | 87 | 02754 | 10214 | 80 | 05590 | 16120 | 00 | 0089 | 22121 |
| 279 24 | 01763 | 05313 | 40 | 05563 | 06214 | 53 | 08433 | 04126 | 50 | 05656 | 04114 |
| 285 13 | 01853 | 14314 | 57 | 05634 | 06327 | | | | 27 | 05624 | 04514 |
| 288 03 | 41490 | 00049 | 5- | 46209 | 04249 | 52 | 62446 | 30390 | 57 | 05556 | 32568 |
| 575 86 | 01853 | 04123 | 20 | 01851 | 00011 | 00 | 05690 | * | 5- | 03647 | 04117 |
| 301 20 | 01562 | 14245 | 03 | 47390 | 12225 | 00 | 00490 | 00940 | 5- | 08467 | 10107 |
| 321 07 | 43290 | 28247 | | | | 50 | 00751 | 31361 | | | |
| 299 54 | 02574 | 32217 | 5- | 02766 | 32326 | 60 | 2266 | * | 8- | 81748 | 37588 |
| 292 03 | 43290 | 00046 | 03 | 08490 | 28145 | 03 | 02890 | 31265 | 57 | 05656 | 28228 |
| 310 -- | 01634 | 29314 | | | | | | | -- | 02625 | 32528 |
| 614 07 | 05690 | 06127 | 57 | 47363 | 32248 | 00 | 05590 | 32140 | 52 | 41465 | 32347 |

| 13h. G.M.T. 28th October IIIC_L C_M | wwVhN_h | DDFWN | 18h. G.M.T. C_L C_M | wwVhN_h | DDFWN | 01h. G.M.T. 29th October C_L C_M | wwVhN_h | DDFWN | 07h. G.M.T. C_L C_M | wwVhN_h | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 26 | 01962 | 10202 | 36 | 04961 | 28101 | 00 | 05690 | 32100 | | | |
| 334 -- | 01672 | 28103 | | | | | | | | | |
| 340 00 | 43109 | 00049 | 00 | 04303 | 00044 | -- | 45190 | 31140 | -- | 46109 | 30149 |
| 136 57 | 02763 | 04228 | 52 | 64653 | 02268 | 5- | 02956 | 30466 | 5- | 51638 | 25368 |
| 336 -- | 44109 | 12249 | 50 | 01753 | 16313 | | | | | | |
| 350 07 | 08490 | 02248 | 02 | 08490 | 02226 | 07 | 43190 | 29243 | | | |
| 368 80 | 01652 | 08313 | 50 | 00653 | 08213 | 00 | 01690 | 08214 | 50 | 05533 | 07428 |
| 379 24 | 01761 | 05313 | 03 | 05690 | 02225 | -- | 44209 | 04249 | 57 | 42822 | 04348 |
| 390 52 | 62465 | 04148 | 52 | 67225 | 00068 | 00 | 05690 | 30210 | 5- | 05558 | 00028 |
| 382 07 | 05590 | 02247 | 04 | 08490 | 03213 | -- | 46009 | 02349 | 57 | 48363 | 00047 |
| 438 5- | 03538 | 02328 | 57 | 22745 | 32467 | 25 | 02544 | 04428 | 5- | 02748 | 02328 |
| 43[illegible] 07 | 05690 | 02228 | 07 | 08490 | 30125 | 01 | 08490 | 04228 | 07 | 05690 | 06348 |
| 409 20 | 01955 | 14215 | 25 | 01962 | 06213 | 07 | 02730 | 08427 | 52 | 02172 | 06528 |

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 29th October
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 * | Fe Fcm0 | cr0r0dcm | cmbcmw |
| Croydon | cefof | brvr0cFir0 | pFefcbc |
| Greenwich | Fetr0 | cFr0rrm | obccm |
| Camden Square | or | or | * |
| *Kensington | omr | omr | * |
| Hampstead | cor | or | o |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 1·2 Time 10 hrs 28th
Min. 0·2 Time 0-7 hrs 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 | (50) | 38 | 29 | 2 | Tr | 0·0 | * | * |
| Croydon | 48 | 39 | 36 | 3 | 1 | 0·0 | * | * |
| Greenwich | 49 | 41 | 33 | 4·6 | - | 0·0 | 94 | 89 |
| Westminster | | | 37 | 4·5 | | | 99 | 93 |
| Regents Park | 48 | 41 | 38 | 4·8 | - | * | 100 | 92 |
| Camden Square | 49 | 41 | 33 | 4·1 | | * | * | 95 |
| Kensington | 49 | 41 | 27 | 4·8 | 0·5 | * | 100 | 92 |
| Hampstead | 49 | 40 | 35 | 5·6 | - | * | * | 97 |

**SECRET**

Page 1 BRITISH SECTION

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

Friday 30th October 1942

No. 29562

## OBSERVATIONS at 13h. G.M.T. 29th October

| 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) | Amount Low 0–10 (13) | Amount Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 99·9 | -14 | NE | 3 | roro | 47 | 85 | 44 | 4 | 6 | 2 | - | 9 | 10 | 2500 |
| | Croydon | 00·8 | -16 | NE | 2 | iro | 45 | 92 | 43 | 4 | 5 | 7 | - | 7-8 | 10 | 1000 |
| | S. Farnborough | 99·4 | -18 | ENE | 3 | iro | 45 | 92 | 44 | 4 | 5 | 7 | - | 9+ | 10 | 500 |
| | Boscombe Down | 98·9 | -2 | NE'E | 4 | c/r | 44 | 97 | 44 | 6 | 6 | 2 | - | 9 | 10 | 600 |
| | Thorney Island | 98·4 | -18 | ENE | 4 | iro | 48 | 92 | 45 | 6 | 5 | 7 | - | 4-6 | 10 | 2500 |
| | Lympne | 00·2 | -14 | E'S | 2 | iro | 50 | 85 | 46 | 7 | 5 | 7 | - | Tr | 10 | 1800 |
| | Manston | 00·5 | -24 | NNE | 1 | iro | 51 | 85 | 46 | 8 | 5 | 7 | - | 9 | 10 | 1800 |
| 2 | Shoeburyness | 01·6 | -12 | NNE | 3 | c | 48 | 85 | 45 | 8 | 5 | - | - | 10 | 10 | 1800 |
| | Felixstowe | 00·1 | -20 | ENE | 3 | c | 48 | 85 | 44 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 |
| | Gorleston | 01·0 | -4 | NW'N | 3 | C | 49 | 85 | 41 | 7 | 5 | 7 | - | 4-6 | 9+ | 1400 |
| | Mildenhall | 00·7 | -20 | N'E | 3 | c/r | 46 | 92 | 43 | 6 | 5 | 7 | - | 7·8 | 9+ | 2500 |
| | Cranwell | 01·9 | -10 | NNW | 2 | Zo | 46 | 92 | 44 | 6 | 5 | - | - | 10 | 10 | 2000 |
| 3 | Birmingham | 01·8 | -10 | NE | 3 | m | 45 | 85 | 41 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Upper Heyford | 00·6 | -16 | NE | 3 | roro | 44 | 92 | 42 | 6 | 5 | 2 | - | 4-6 | 10 | 3500 |
| 4 | Ross-on-Wye | 00·5 | -16 | NE'E | 3 | pr | 46 | 85 | 41 | 6 | 5 | 2 | - | 9+ | 10 | 800 |
| 5 | Hartland Point | 96·1 | -10 | ENE | 6 | rr | 46 | 92 | 44 | 6 | 6 | 2 | - | 7·8 | 10 | 1000 |
| | Bristol | 00·3 | -14 | ENE | 3 | roro | 44 | 97 | 43 | 6 | 6 | 2 | - | 4-6 | 10 | 800 |
| | Portland Bill | 95·6 | -28 | E | 5 | RR | 48 | 85 | 44 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Plymouth | 93·4 | -18 | E | 6 | iro | 47 | 85 | 43 | 7 | 6 | 7 | - | 4-6 | 10 | 1500 |
| | The Lizard | 89·7 | -20 | ENE | 7 | rr | 47 | 97 | 47 | 6 | 5 | - | - | 10 | 10 | 1000 |
| | Scilly (St. Mary's) | 88·8 | -10 | NE | 8 | iro | 48 | 92 | 44 | 6 | 6 | 2 | - | 7·8 | 10 | 800 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 99·4 | -10 | ENE | 6 | cq | 49 | 75 | 41 | 8 | 8 | 2 | - | 7·8 | 9+ | 2500 |
| 7 | Holyhead (Valley) | 02·9 | -2 | NE'N | 4 | Cbc | 52 | 65 | 41 | 8 | 1 | - | 6 | 4-6 | 7-8 | 3000 |
| | Chester (Sealand) | 03·4 | -2 | N | 2 | c | 47 | 75 | 41 | 6 | 5 | - | - | 10 | 10 | 2500 |
| 8 | Manchester | 02·7 | +8 | N'W | 4 | Zo | 47 | 75 | 41 | 6 | 5 | - | - | 10 | 10 | 1500 |
| 10 | Spurn Head | 02·1 | +24 | N'W | 4 | Zo | 47 | 85 | 44 | 6 | 5 | 2 | - | 4-6 | 10 | 1800 |
| | Catterick | 02·5 | -20 | N | 4 | c/d | 47 | 85 | 43 | 6 | 5 | - | - | 4-6 | 9+ | 1000 |
| | Tynemouth | 02·3 | -16 | NNE | 6 | Gbc | 48 | 85 | 44 | 7 | 2 | 3 | - | 4-6 | 7-8 | 2800 |
| 11 | St. Abbs Head | 04·4 | -10 | N | 5 | c/pr | 46 | 75 | 39 | 7 | 6 | 2 | - | 7·8 | 10 | 2000 |
| | Leuchars | 06·0 | -10 | N | 3 | c | 48 | 85 | 44 | 8 | 8 | 6 | - | 7·8 | 10 | 3000 |
| 12 | Renfrew (Abbots I.) | 07·1 | -6 | NNE | 4 | Gbc | 50 | 55 | 36 | 9 | 8 | 3 | - | 7-8 | 7-8 | 2500 |
| | Eskdalemuir | 05·7 | -4 | NNE | 5 | c/pr | 43 | 85 | 41 | 8 | 8 | - | - | 9 | 9 | 1500 |
| | Point of Ayre | 05·0 | -8 | NE | 4 | c/pr | 49 | 85 | 44 | 8 | 8 | - | - | 9+ | 9+ | 2000 |
| 13A | Tiree | 10·0 | +10 | NE | 4 | Gbc | 49 | 75 | 40 | 9 | 5 | 7 | 1 | 4-6 | 7-8 | 5000 |
| 13B | Stornoway | 13·5 | +6 | NE | 6 | c | 46 | 85 | 43 | 8 | 5 | 7 | - | 7·8 | 9+ | 2000 |
| 15 | Dalwhinnie | 09·6 | -8 | NNE | 3 | Gbc | 40 | 85 | 35 | 8 | 8 | 4 | - | 7-8 | 7-8 | 1500 |
| | Aberdeen | 06·7 | -18 | N | 5 | iro | 46 | 75 | 39 | 8 | 5 | 7 | - | 2-3 | 9+ | 1500 |
| | Wick | 11·5 | -10 | NE'N | 7 | pr | 46 | 65 | 36 | 7 | 8 | 2 | - | 7-8 | 10 | 1000 |
| 16 | Sumburgh | 12·3 | -2 | NE | 4 | c | 46 | 65 | 36 | 8 | 5 | 2 | - | 9 | 10 | 2000 |
| 17 | Blacksod Point | 06·9 | +2 | NE | 4 | b | 50 | 85 | 46 | 7 | 5 | - | - | Tr | Tr | 4000 |
| 18 | Malin Head | 07·6 | +6 | ENE | 3 | bc | 50 | 75 | 42 | 8 | 2 | - | - | 4-6 | 4-6 | 2600 |
| | Aldergrove | 06·8 | 0 | NE | 3 | c | 48 | 75 | 42 | 6 | 8 | 6 | - | 7-8 | 9+ | 4000 |
| 19 | Birr Castle | 03·8 | +2 | NE | 3 | Gbc | 49 | 85 | 45 | 7 | 4 | - | - | 7-8 | 7-8 | 2500 |
| 20 | Valentia Obsy. | 02·6 | +2 | ENE | 4 | b-bc | 50 | 75 | 42 | 8 | 1 | - | 3 | 1 | 2-3 | 1500 |
| | Roches Point | 00·7 | +2 | E | 5 | bc | 52 | 75 | 44 | 8 | 2 | - | 5 | 2-3 | 4-6 | 2500 |

## OBSERVATIONS at 18h. G.M.T. 29th October — 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) | 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) | Weather 7h.–13h. 29th (39) | Weather 13h.–18h. 29th (40) | Weather 18h. 29th to 1h. 30th (41) | Weather 1h.–7h. 30th (42) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 99·6 | +10 | NE'E | 3 | c/d | 47 | 92 | 45 | 4 | 6 | - | - | 10 | 10 | 1500 | 1 | • | rorcrom | irodocm | crgRro | rRrofFe |
| Croydon | 99·6 | +6 | NNE | 2 | df | 46 | 97 | 46 | 3 | - | - | - | 10 | 10 | <150 | 1 | • | cfrrcmiro | Cmiroro | | ofmircf |
| S. Farnborough | 98·9 | +6 | NE | 3 | cf+ | 46 | 92 | 44 | 2 | 5 | 2 | - | 9+ | 10 | 500 | 1 | • | cjfmm₀rmiro | Ciroido | mf cforRrgc | cm₀rRmOF |
| Boscombe Down | 98·3 | +6 | ENE | 4 | Zo | 46 | 92 | 45 | 6 | 6 | 2 | - | 9+ | 10 | 1000 | 1 | • | cirm₀ | CM₀iro | cm₀rrczz | |
| Thorney Island | 97·5 | -2 | ENE | 3 | Zo | 48 | 92 | 46 | 6 | 5 | 7 | - | 4-6 | 7-8 | 2500 | 1 | | crrm₀iro | CM₀ | tirpr | cprbc |
| Lympne | 98·8 | +2 | ESE | 1 | Zo | 49 | 97 | 48 | 6 | 5 | 4 | - | 1 | 1 | 1200 | 1 | § 2 | CM₀Ciro | Cirobm | cirmgcm₀ | cm₀ |
| Manston | 99·4 | +2 | - | 0 | Zo | 50 | 92 | 48 | 5 | 5 | 7 | - | 4-6 | 4-6 | 1200 | 1 | • | C | Croro m₀ | cpRirgm | bcm₀ |
| Shoeburyness | 00·3 | +4 | NNE | 3 | c | 49 | 92 | 46 | 8 | 6 | 2 | - | 7-8 | 10 | 1000 | 1 | • | CidoMoc | cidoiroc | crcpr | cbcm₀ |
| Felixstowe | 99·8 | +4 | N'E | 3 | o/r | 48 | 85 | 45 | 7 | 5 | - | - | 10 | 10 | 1900 | 1 | 2 | cm₀ciroM₀ | cciroc | cidgcmcigm₀ | crgm₀cm₀ |
| Gorleston | 00·4 | +6 | N | 2 | Zo | 48 | 92 | 46 | 6 | 5 | - | - | 10 | 10 | 1200 | 1 | 2 | C | C | cz₀ | cm₀ |
| Mildenhall | 00·3 | -2 | NE'N | 2 | Zo | 46 | 92 | 45 | 6 | 5 | - | | 10 | 10 | 3100 | 1 | • | idoocirom₀ | CMoOM₀ | CMocidocrom₀ | crcroid₀m₀ |
| Cranwell | 01·6 | +2 | NNW | 1 | iro | 45 | 92 | 43 | 5 | 5 | 2 | - | 4-6 | 10 | 3050 | 1 | • | CM₀ | CiroM₀ | circofe | ofcrrm |
| Birmingham | 01·6 | +2 | NE | 3 | rf | 44 | 92 | 42 | 3 | 6 | - | - | 10 | 10 | 800 | 1 | • | fcom | orrf | prf | pfRr |
| Upper Heyford | 00·1 | +2 | NE | 3 | dodo | 44 | 97 | 43 | 5 | 6 | 2 | - | 7-8 | 10 | 400 | 1 | • | cMororo | CMororo | dodoirgm₀c | irrorRRgm |
| Ross-on-Wye | 00·3 | -4 | NE | 3 | iro | 45 | 92 | 43 | 4 | 6 | 2 | - | 9+ | 10 | 800 | 1 | • | cfofcz | rrrodm | cm₀omro | rorr |
| Hartland Point | 96·0 | +10 | NE | 7 | c/r | 47 | 97 | 46 | 7 | 6 | 2 | - | 9 | 10 | 1000 | 1 | | cirrrc | crorc | cirrrc | rorcc |
| Bristol | 99·7 | -4 | E | 3 | ido | 45 | 92 | 43 | 4 | 6 | 2 | - | 9+ | 10 | 700 | 1 | • | oMoCdodom₀ | Crodom₀ | idomcimdfim | crgrgFom |
| Portland Bill | 96·7 | +6 | ENE | 5 | O | 49 | 92 | 47 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 5 | oR | O | orr | oc |
| Plymouth | 94·2 | +8 | E'N | 6 | Zo | 47 | 92 | 45 | 6 | 5 | 7 | 2 | 4-6 | 7-8 | 2500 | 1 | | crrm₀iro | cirgcm₀ | crrcm₀ | cm₀ |
| The Lizard | 92·3 | +18 | ENE | 5 | O | 52 | 97 | 52 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 5 | rrq | rrqco | orrro | orrc |
| Scilly (St. Mary's) | 91·3 | +22 | NE | 6 | c/r | 49 | 92 | 47 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | | rriro | roroirc | cir | iorrr |
| Guernsey | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 98·8 | -2 | ENE | 6 | c-bc | 46 | 92 | 44 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | cq | cirMoq | cqm₀ | c |
| Holyhead (Valley) | 02·7 | -2 | NE'N | 3 | pr | 45 | 92 | 42 | 7 | 8 | 6 | 3 | 2-3 | 7-8 | 2000 | 1 | 3 | bcc | bccpr | e | eirgo |
| Chester (Sealand) | 02·8 | -2 | N | 2 | o | 47 | 75 | 41 | 5 | 5 | - | - | 10 | 10 | 2500 | 0 | • | FFcm₀ | CM₀ | c,bc,c,m₀ | cm₀ |
| Manchester | 02·4 | 0 | N'W | 3 | m | 45 | 85 | 41 | 4 | 5 | - | - | 7-8 | 10 | 2500 | 1 | • | FFcm₀ | CZoM₀m | cbcm | cm₀ |
| Spurn Head | 01·2 | +14 | NW | 4 | c | 46 | 92 | 44 | 7 | 8 | - | - | 9 | 9 | 1500 | 0 | 3 | proCM₀ | C | bcf | cm₀ |
| Catterick | 02·3 | -4 | NW | 3 | rr | 45 | 92 | 42 | 4 | 6 | 2 | - | 7-8 | 10 | 700 | 1 | • | CMocdo | CM₀idororr | crgrgmcm | cm₀ |
| Tynemouth | 01·4 | +4 | NNE | 6 | c/pr | 48 | 85 | 45 | 6 | 2 | - | - | 9 | 9 | 2500 | 1 | 4 | CpoC | cpq | oirq | oir |
| St. Abbs Head | 01·8 | +2 | N | 6 | c/pr | 47 | 85 | 43 | 7 | 6 | 2 | - | 7-8 | 9+ | 2000 | 1 | 6 | orrroc | cqpr | cqrr | cqrrcq |
| Leuchars | 04·2 | -2 | N | 4 | c | 46 | 92 | 44 | 8 | 5 | 3 | - | 7-8 | 9+ | 2000 | 1 | • | rrMobcc | cbcc | cbcwv | bwvobx |
| Renfrew (Abbots I.) | 06·3 | +2 | NNE | 2 | c | 44 | 75 | 37 | 9 | 5 | - | - | 9 | 9 | 3500 | 1 | • | iroc | cybcyc | bcb | bbc |
| Eskdalemuir | 03·9 | +8 | NNE | 4 | o | 43 | 75 | 34 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | • | cproc | cpro | crorg | c |
| Point of Ayre | 05·0 | +10 | ENE | 5 | pr | 49 | 75 | 42 | 8 | 8 | 2 | - | 7-8 | 10 | 2500 | 1 | 5 | cpro | cpro | cbbc | cbcbb |
| Tiree | 10·1 | +2 | NE'N | 4 | bc | 46 | 65 | 36 | 9 | 1 | 4 | - | 4-6 | 4-6 | 2500 | 1 | 4 | bccbc | bccbc | bcbbc | bccbc |
| Stornoway | 13·3 | -2 | NE | 6 | pr | 45 | 85 | 42 | 7 | 8 | 7 | - | 7-8 | 9+ | 2000 | 1 | 3 | cpr | cpr | bcr | cpr |
| Dalwhinnie | 08·0 | -8 | NNE | 3 | c/pr | 40 | 85 | 36 | 7 | 5 | - | - | 9 | 9 | 1500 | 1 | • | Oprc | coprc | * | cporbc |
| Aberdeen | 04·6 | -10 | N | 5 | iro | 46 | 85 | 40 | 7 | 5 | - | - | 7-8 | 10 | 2000 | 1 | 5 | Croroiro | Ciro | | cirgbcpr |
| Wick | 10·2 | -2 | NE | 8 | pr | 44 | 65 | 34 | 8 | 8 | 2 | - | 4-6 | 7-8 | 2000 | 1 | • | cpro | cproc | bcc | cbc |
| Sumburgh | 10·2 | -10 | NNE | 6 | pr | 44 | 75 | 36 | 8 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | 5 | Ciroc | ccpro | cbc | pbccpr |
| Blacksod Point | 07·7 | +10 | NE | 4 | b-bc | 49 | 85 | 45 | 7 | 5 | - | - | 2-3 | 2-3 | 4000 | 1 | 3 | bc | bc | b | c |
| Malin Head | 08·1 | +10 | NE'N | 5 | bc | 49 | 65 | 38 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 | 2 | 4 | c | bc | c | c |
| Aldergrove | 06·6 | +2 | NE | 1 | c/r | 44 | 85 | 40 | 9 | 8 | 6 | - | 9 | 9+ | 3500 | 1 | • | bccm₀ | ciroC | cbcbbcb | bbcbx |
| Birr Castle | 04·0 | +6 | NE | 3 | bc | 47 | 92 | 45 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | • | f | bc | • | bc |
| Valentia Obsy. | 03·2 | +10 | NE'N | 5 | bc | 48 | 85 | 44 | 7 | 2 | - | 1 | 4-6 | 4-6 | 2500 | 1 | 3 | bc | bc | bc | bc |
| Roches Point | 00·9 | +10 | ENE | 4 | bc | 48 | 85 | 44 | 8 | 5 | - | 5 | 4-6 | 4-6 | 1500 | 1 | 4 | bc | pr | bc | bc |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 30th October

| Districts | Forecast |
|---|---|
| 1 S.E. England; 2 E. England | Light East or Northeast wind; dull and misty; occasional slight rain or drizzle; rather cold during day, moderate night temperature. |
| 3 E. Midlands; 4 W. Midlands | Light Northeast wind; dull and misty; occasional drizzle or slight rain; rather cold. |
| 5 S.W. England; 6 South Wales | Moderate East to Southeast wind; cloudy, rain at times; rather cold during day; moderate night temperature. |
| 7 North Wales | Moderate Northeast wind, cloudy, occasional slight rain; rather cold during day, moderate night temperature. |
| 8 N.W. England | As 12-13 A. |
| 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland | Moderate or fresh Northeast wind; cloudy, rain at times, rather cold during day, moderate night temperature. |
| 12 S.W. Scotland & Isle of Man; 13A W. Scotland | Moderate or fresh Northeast wind; bright periods rather cold during day; moderate night temperature. |
| 13B N.W. Scotland; 14 Mid Scotland | Moderate or fresh Northeast wind; bright periods, local showers; rather cold. |
| 15 N.E. Scotland | As 9-11 |
| 16 Orkneys and Shetlands | As 9-11 |
| 17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland | As 12- 13A. |

### GENERAL INFERENCE

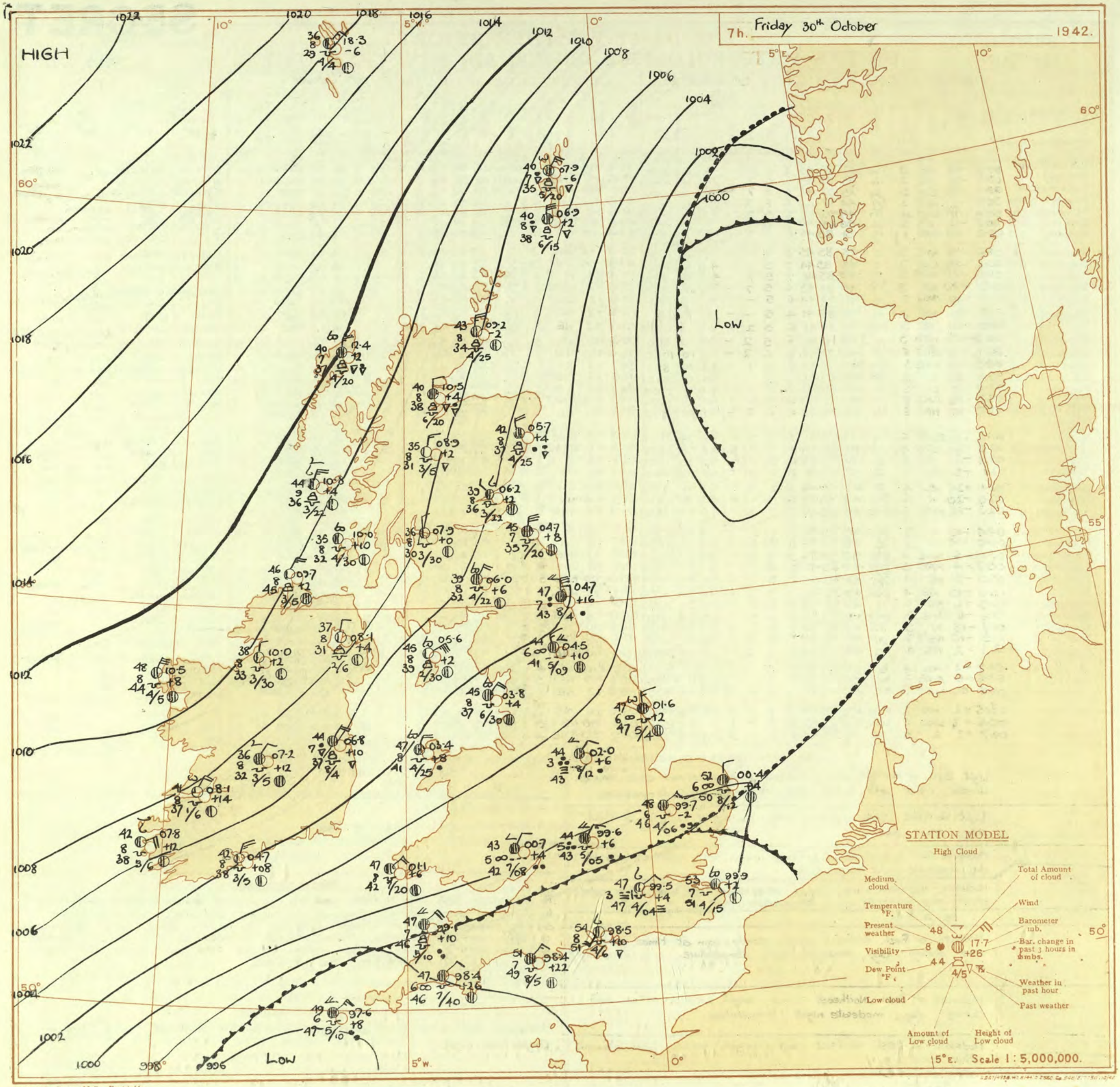
A depression over the Northern part of the Bay of Biscay and an associated trough lying across Southern England are almost stationary and filling up; another depression over Northern North sea is moving slowly North; a ridge of high pressure extends from Iceland to West of the Azores. Weather will be cloudy with further rain in the East and South, but there will be bright intervals in the Northwest.

### FURTHER OUTLOOK

Occasional rain in the East and South; fair in the Northwest; some fog in England at night

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

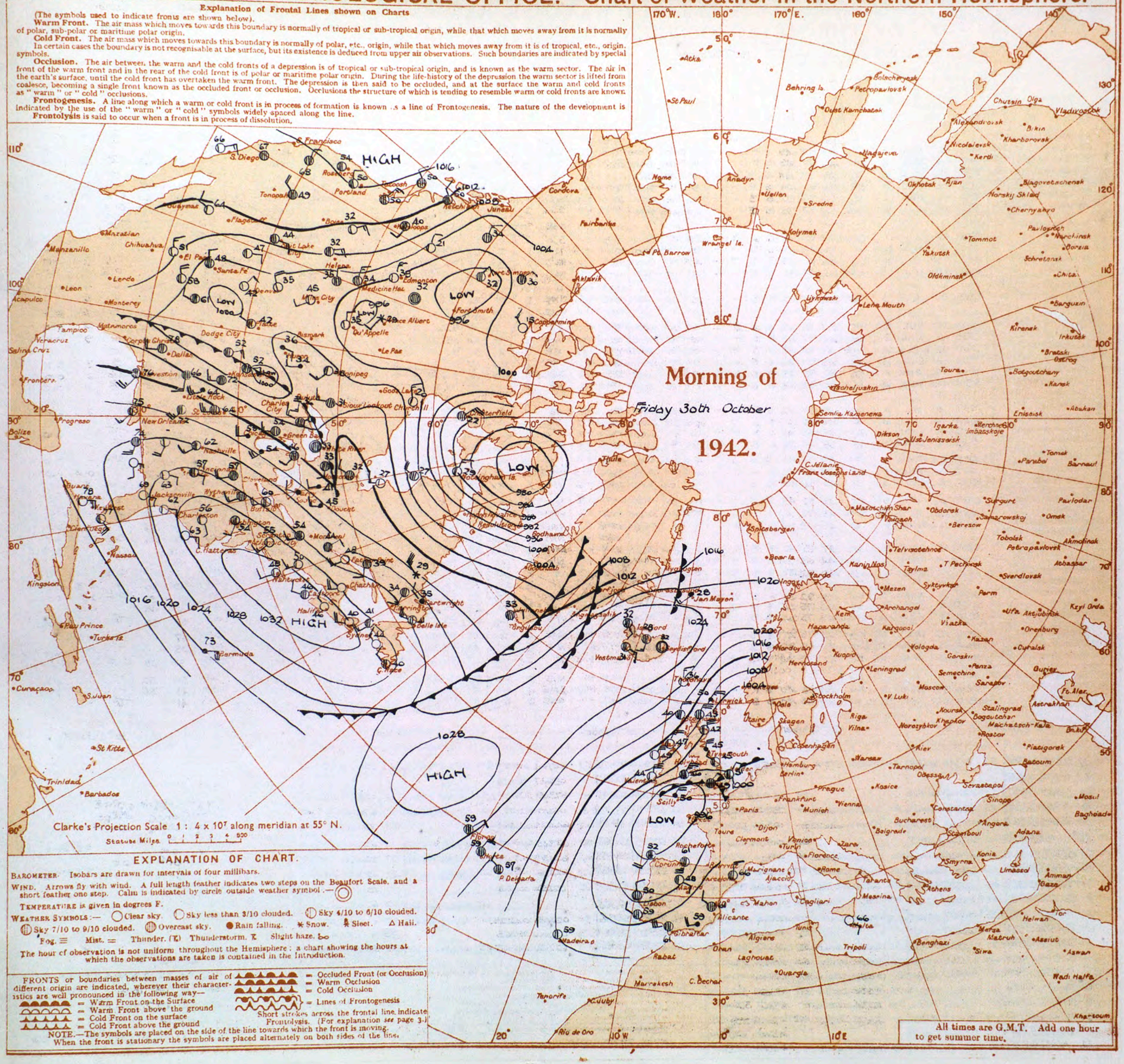
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Friday 30th October 1942

No. 29562

## OBSERVATIONS at 1 hr. G.M.T. 30th October

| 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) | Amount Low 0–10 (13) | Amount Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | 46 | * | * | * | * | * | * | * | * | * |
| | Croydon | 290 | 99·3 | -2 | NE | 1 | of | 49 | 97 | 49 | 3 | 5 | – | – | 10 | 10 | 500 |
| | S. Farnborough | 226 | 98·1 | -18 | NE'E | 3 | o/r | 46 | 97 | 45 | 6 | 5 | – | – | 10 | 10 | 600 |
| | Boscombe Down | 417 | 97·7 | +2 | NE'E | 4 | z0 | 45 | 97 | 44 | 6 | 5 | · | – | 10 | 10 | 500 |
| | Thorney Island | 10 | 97·5 | +2 | ENE | 3 | PR | 50 | 92 | 48 | 6 | 9 | – | – | 9 | 9 | 2100 |
| | Lympne | 283 | 99·0 | -10 | NE | 2 | z0 | 52 | 97 | 52 | 5 | 5 | – | – | 10 | 10 | 1000 |
| | Manston | 154 | 99·3 | +2 | E | 1 | bc/r | 52 | 97 | 50 | 5 | 5 | – | – | 4-6 | 4-6 | 1000 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 12 | 99·0 | -4 | E | 1 | r0r0 | 52 | 92 | 50 | 6 | 6 | 2 | – | 7-8 | 10 | 1500 |
| | Gorleston | 5 | 00·0 | 0 | NE'N | 2 | c | 51 | 92 | 48 | 6 | 5 | – | – | 9+ | 9+ | 1000 |
| | Mildenhall | 15 | 99·2 | -10 | NE | 4 | r0r0 | 46 | 97 | 45 | 5 | 5 | 7 | – | 4-6 | 9+ | 1000 |
| | Cranwell | 203 | 01·6 | -2 | N'W | 2 | of+ | 42 | 97 | 42 | 3 | 5 | – | – | 10 | 10 | 200 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 99·5 | 0 | N | 3 | ir | 44 | 97 | 42 | 5 | 5 | – | – | 10 | 10 | 800 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 96·9 | +12 | ENE | 5 | rr | 47 | 92 | 45 | 6 | 6 | 2 | – | 9 | 10 | 1500 |
| | Bristol | 209 | 99·5 | -2 | ENE | 3 | o/r | 44 | 97 | 43 | 5 | 5 | – | – | 10 | 10 | 1000 |
| | Portland Bill | 32 | 96·0 | -12 | E | 4 | o/r | 47 | 92 | 45 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Plymouth | 82 | 95·4 | +4 | ENE | 4 | r0r0 | 48 | 92 | 46 | 6 | 5 | 1 | – | 9+ | 9+ | 4000 |
| | The Lizard | 240 | 95·0 | +20 | ENE | 4 | r0r0 | 50 | 92 | 49 | 7 | 5 | 2 | – | 9 | 10 | 1000 |
| | Scilly (St. Mary's) | 163 | 95·4 | +16 | NE'N | 4 | ir0 | 50 | 92 | 48 | 6 | 6 | 2 | – | 7-8 | 10 | 800 |
| | Guernsey | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke | 142 | 99·7 | 0 | NE | 5 | cq | 46 | 85 | 42 | 6 | 5 | 6 | – | 7-8 | 9+ | 1500 |
| 7 | Holyhead (Valley) | 32 | 02·2 | -6 | N | 4 | c | 48 | 75 | 41 | 8 | 5 | 7 | – | 4-6 | 9+ | 2500 |
| | Chester (Sealand) | 16 | 02·5 | -4 | WNW | 2 | z0 | 45 | 85 | 41 | 6 | 5 | – | – | 10 | 10 | 4000 |
| 8 | Manchester | 235 | 02·2 | -2 | WNW | 1 | m | 39 | 97 | 38 | 4 | 5 | – | – | 9+ | 9+ | 1400 |
| 10 | Spurn Head | 29 | 01·8 | +4 | NW'W | 2 | f+ | 45 | 92 | 43 | 3 | 5 | 3 | – | 4-6 | 4-6 | 2500 |
| | Catterick | 175 | 02·3 | +4 | NNW | 4 | c/r | 45 | 92 | 43 | 4 | 6 | 2 | – | 4-6 | 9+ | 1200 |
| | Tynemouth | 108 | 01·5 | 0 | N | 6 | ir | 45 | 92 | 43 | 6 | 6 | – | – | 10 | 10 | 1500 |
| 11 | St. Abbs Head | 280 | 02·1 | 0 | N | 6 | rr | 45 | 92 | 45 | 7 | 5 | – | – | 10 | 10 | 1500 |
| | Leuchars | 36 | 04·9 | +2 | N | 3 | b-bc | 43 | 92 | 41 | 9 | 5 | 3 | – | 2-3 | 2-3 | 3000 |
| 12 | Renfrew (Abbots I.) | 19 | 06·7 | 0 | NNW | 2 | b | 41 | 75 | 34 | 8 | 1 | 4 | – | 1 | 1 | 2500 |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre | 30 | 03·9 | +2 | NE'N | 6 | bc | 47 | 75 | 42 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 |
| 13A | Tiree | 22 | 10·0 | -4 | NE'N | 4 | bc | 44 | 65 | 34 | 8 | 2 | – | – | 4-6 | 4-6 | 2500 |
| 13B | Stornoway | 80 | 12·5 | -2 | NNE | 4 | c/pr | 40 | 92 | 38 | 7 | 8 | 7 | – | 7-8 | 9+ | 2000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † | 79 | 04·8 | 0 | NNW | 6 | bc/r | 42 | 92 | 39 | 8 | 5 | 7 | – | 2-3 | 4-6 | 2500 |
| | Wick | 114 | 09·5 | 0 | NNE | 6 | c | 43 | 75 | 36 | 8 | 8 | 3 | – | 4-6 | 9+ | 3000 |
| 16 | Sumburgh | 19 | 07·3 | -12 | NE | 6 | c-bc | 43 | 75 | 36 | 8 | 5 | – | – | 7-8 | 7-8 | 2500 |
| 17 | Blacksod Point | 18 | 09·2 | +2 | NE | 6 | b-bc | 49 | 75 | 41 | 8 | 8 | – | – | 2-3 | 2-3 | 4000 |
| 18 | Malin Head | 84 | 08·4 | -2 | NNE | 5 | b-bc | 47 | 65 | 36 | 8 | 2 | – | – | 2-3 | 2-3 | 2500 |
| | Aldergrove | 268 | 06·8 | -2 | NNE | 3 | b | 42 | 75 | 34 | 8 | 5 | – | – | Tr | Tr | 4000 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 06·0 | +18 | NE'N | 5 | bc | 44 | 85 | 40 | 8 | 1 | – | 8 | 1 | 4-6 | 2500 |
| | Roches Point | 22 | 03·0 | +10 | NE | 4 | bc | 44 | 85 | 40 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 30th October — 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) | 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) | Temp. Max. Day 7h–18h °F. (33) | Min. Night 18h–7h °F (34) | Min. on Grass °F. (35) | Rainfall Day 7h–18h mm. (36) | Rainfall Night 18h–7h mm. (37) | Sunshine 29th Hrs. (38) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 97·5 | +8 | ENE | 1 | F | 48 | 97 | 47 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 48 | 46 | 42 | 2 | 10 | 0·0 |
| Croydon | 99·5 | +4 | ENE | 1 | bcf- | 47 | 97 | 47 | 3 | 5 | 4 | – | 4-6 | 4-6 | 400 | 1 | * | 47 | 46 | 42 | 3 | 14 | 0·0 |
| S. Farnborough | 99·0 | +2 | – | 0 | cF+ | 47 | 97 | 47 | 1 | – | – | – | 10 | 10 | <150 | 1 | * | 46 | 45 | 43 | 2 | 12 | 0·0 |
| Boscombe Down | | | | | | | | 44 | | | | | | | | | * | 46 | | | 4 | | |
| Thorney Island | 98·5 | +10 | S'W | 4 | bc | 54 | 85 | 51 | 8 | 5 | 4 | – | 4-6 | 4-6 | 4000 | 1 | * | 50 | 47 | 45 | 3 | 12 | * |
| Lympne | 00·2 | +10 | SSW | 1 | z0 | 55 | 97 | 54 | 6 | 5 | 3 | – | Tv | 9 | 1100 | 1 | §2 | 51 | 48 | 35 | 0·2 | 4 | 0·0 |
| Manston | 99·9 | +2 | ESE | 2 | c-bc | 53 | 92 | 51 | 7 | 5 | 7 | – | 4-6 | 7-8 | 1500 | 1 | * | 51 | 47 | 45 | 0·1 | 3 | |
| Shoeburyness | 00·0 | +2 | SSE | 3 | bc | 53 | 97 | 51 | 6 | 5 | 4 | – | 4-6 | 4-6 | 4000 | 1 | * | 50 | 47 | 37 | Tr | 7 | 0·2 |
| Felixstowe | 99·9 | +4 | S'E | 2 | z0 | 53 | 97 | 52 | 6 | 5 | – | – | 9+ | 9+ | 1500 | 1 | 1 | 50 | 46 | 44 | 0·2 | 2 | 0·3 |
| Gorleston | 00·4 | +4 | N | 1 | z0 | 52 | 92 | 50 | 6 | 5 | – | – | 10 | 10 | 1200 | 0 | 3 | 50 | 47 | 46 | – | – | 0·1 |
| Mildenhall | 99·7 | -2 | NE'E | 3 | c/d | 48 | 92 | 46 | 6 | 5 | – | – | 4-6 | 10 | 600 | 1 | * | 48 | 45 | 42 | 0·2 | 3 | 0·0 |
| Cranwell | 01·8 | +2 | NNE | 2 | rr | 43 | 97 | 42 | 4 | 6 | 2 | – | 9+ | 10 | 200 | 1 | * | 46 | 40 | 38 | 0·2 | 3 | 0·0 |
| Birmingham | 01·7 | +4 | N | 3 | rf | 43 | 97 | 43 | 3 | 6 | – | – | 10 | 10 | 800 | 1 | * | 45 | 42 | 41 | 3 | 9 | 0·0 |
| Upper Heyford | 99·6 | +6 | NNE | 3 | rr | 44 | 97 | 43 | 5 | 5 | 2 | – | 7-8 | 10 | 500 | 1 | * | 44 | 43 | 42 | 1 | 5 | * |
| Ross-on-Wye | 00·7 | +4 | NNE | 2 | c/r | 43 | 97 | 42 | 5 | 6 | 1 | – | 9+ | 10 | 800 | 1 | * | 46 | 43 | 42 | 5 | 6 | 0·0 |
| Hartland Point | 99·1 | +10 | NE | 4 | c/r | 47 | 92 | 46 | 7 | 8 | 2 | – | 7-8 | 9+ | 1000 | 1 | 4 | 47 | 45 | 44 | 2 | 2 | 0·0 |
| Bristol | 00·6 | +10 | NE | 3 | o/f | 44 | 85 | 43 | 4 | – | 2 | – | 10 | 10 | 800 | 1 | * | 45 | 42 | 43 | 5 | 9 | 0·0 |
| Portland Bill | 98·4 | +22 | NE | 3 | o | 51 | 92 | 49 | 7 | 5 | – | – | 10 | 10 | 2500 | 4 | 4 | 51 | | * | 10 | | * |
| Plymouth | 98·4 | +26 | NE | 2 | z0 | 47 | 97 | 46 | 6 | 5 | – | – | 9+ | 9+ | 4000 | 1 | 2 | 49 | 46 | 42 | 5 | 3 | 0·0 |
| The Lizard | 97·5 | +6 | NNE | 3 | c-bc | 46 | 92 | 44 | 8 | 8 | 6 | – | 7-8 | 7-8 | 1500 | 1 | 4 | 53 | 45 | * | 26 | 4 | 0·0 |
| Scilly (St. Mary's) | 97·6 | +8 | NE | 5 | c/r | 49 | 92 | 47 | 6 | 5 | 2 | – | 7-8 | 10 | 1000 | 1 | 4 | 50 | 49 | * | 8 | 4 | 0·0 |
| Guernsey | | | | | | | | | | | | | | | | | | | | | | | |
| Pembroke | 01·1 | +6 | NE | 4 | c | 47 | 85 | 42 | 8 | 5 | – | – | 9+ | 9+ | 2000 | 1 | 2 | 49 | 43 | * | 1 | 2 | 0·0 |
| Holyhead (Valley) | 03·4 | +8 | N'E | 4 | c | 47 | 85 | 41 | 8 | 5 | 7 | – | 4-6 | 9+ | 2500 | 0 | 3 | 53 | 45 | 41 | 1 | Tr | * |
| Chester (Sealand) | 03·0 | +2 | N'W | 2 | z0 | 45 | 85 | 42 | 6 | 5 | – | – | 10 | 10 | 3000 | 0 | * | 49 | 47 | 32 | Tr | – | 2·0 |
| Manchester | 02·5 | +2 | N'W | 4 | z0 | 46 | 85 | 41 | 6 | 5 | 2 | – | 9 | 10 | 1500 | 0 | * | 47 | 37 | 29 | Tr | – | * |
| Spurn Head | 01·6 | +2 | N'W | 3 | z0 | 47 | 97 | 47 | 6 | 5 | 3 | – | 7-8 | 10 | 1500 | 1 | 2 | 48 | 42 | * | 0·2 | – | 0·0 |
| Catterick | 04·5 | +10 | NNW | 3 | z0 | 44 | 85 | 41 | 6 | 6 | 2 | – | 7-8 | 10 | 900 | 1 | * | 47 | 44 | 41 | 1 | 0·4 | 1·0 |
| Tynemouth | 04·7 | +16 | N | 8 | ir | 47 | 85 | 43 | 7 | – | 2 | – | 10 | 10 | 1500 | 1 | 4 | 49 | 45 | 44 | 0·4 | 5 | * |
| St. Abbs Head | 04·7 | +8 | N | 6 | c | 45 | 75 | 35 | 7 | 5 | – | – | 9+ | 9+ | 2000 | 1 | 5 | 47 | 40 | * | 1 | 4 | * |
| Leuchars | 06·2 | +2 | WNW | 1 | bc | 39 | 92 | 36 | 8 | 4 | 4 | – | 2-3 | 4-6 | 2200 | 1 | * | 49 | 38 | 25 | ·2 | – | 1·3 |
| Renfrew (Abbots I.) | 07·9 | 0 | NNW | 1 | b-bc | 36 | 85 | 30 | 8 | 5 | – | – | 2-3 | 2-3 | 3000 | 1 | * | 51 | 35 | 26 | Tr | – | 2·5 |
| Eskdalemuir | 06·0 | +6 | NNE | 4 | c-bc | 39 | 75 | 32 | 8 | 5 | 7 | – | 4-6 | 7-8 | 2200 | 1 | * | 46 | 39 | 36 | 0·3 | 13 | 3·2 |
| Point of Ayre | 05·6 | +2 | ENE | 7 | b-bc | 45 | 75 | 39 | 8 | 2 | 7 | – | 1 | 2-3 | 3000 | 0 | 5 | 50 | 45 | * | Tr | – | 0·9 |
| Tiree | 10·8 | +8 | N'E | 5 | bc | 44 | 75 | 36 | 9 | 3 | 4 | 5 | 2-3 | 4-6 | 2200 | 1 | | 50 | 43 | * | – | – | |
| Stornoway | 12·4 | +2 | N | 5 | c/pr | 40 | 85 | 37 | 7 | 8 | 7 | – | 4-6 | 7-8 | 2000 | | 3 | 47 | | * | 0·5 | | |
| Dalwhinnie | 08·9 | +2 | N | 3 | b-bc | 35 | 85 | 31 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | * | 42 | 35 | 30 | 1 | 0·3 | 0·3 |
| Aberdeen † | 05·7 | +4 | NNW | 4 | c-bc/pr | 42 | 85 | 37 | 8 | 8 | – | – | 4-6 | 7-8 | 2500 | 1 | 4 | 47 | 41 | 37 | 0·2 | 0·5 | 0·0 |
| Wick | 09·2 | -2 | N | 5 | bc | 43 | 75 | 34 | 8 | 8 | – | – | 4-6 | 4-6 | 2500 | | * | 46 | 40 | 38 | 1 | 0·5 | * |
| Sumburgh | 06·9 | -2 | N | 6 | r0 | 40 | 92 | 38 | 8 | 8 | – | – | 9 | 9 | 1500 | 1 | 5 | 47 | 39 | 35 | Tr | 1 | 0·0 |
| Blacksod Point | 10·5 | +8 | NNE | 6 | bc | 48 | 85 | 44 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 | 1 | 5 | 51 | 47 | * | – | 0·1 | * |
| Malin Head | 09·7 | +2 | N'E | 5 | b-bc | 46 | 65 | 35 | 8 | 2 | – | – | 2-3 | 2-3 | 2500 | 1 | 5 | 50 | 45 | | – | – | 4·5 |
| Aldergrove | 08·1 | +4 | N | 2 | b | 37 | 85 | 31 | 8 | 8 | – | – | 1 | 1 | 4000 | 1 | * | 49 | 35 | 29 | 0·4 | – | 4·2 |
| Birr Castle | 07·2 | +12 | NNE | 2 | c-bc | 36 | 85 | 32 | 8 | 5 | – | 5 | 2-3 | 7-8 | 2500 | 1 | * | 52 | 36 | 32 | – | – | 2·3 |
| Valentia Obsy. | 07·8 | +12 | ENE | 4 | bc | 42 | 85 | 38 | 8 | 5 | 4 | 1 | 2-3 | 4-6 | 4000 | 1 | 2 | 50 | 41 | 36 | – | – | 7·[illegible] |
| Roches Point | 04·7 | +8 | NNE | 5 | b-bc | 42 | 85 | 38 | 8 | 6 | – | – | 2-3 | 2-3 | 2500 | 1 | 5 | 53 | 41 | * | Tr | – | * |

### Abridged observations of additional stations in the AVIATION WEATHER CODE

| III | 13h. G.M.T. 29th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 30th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 22 | 21855 | 34768 | 52 | 51745 | 34758 | 80 | 01854 | 32714 | 3- | 10855 | 32685 |
| 115 | 87 | 10844 | 41588 | | | | | | | | | |
| 203 | 20 | 01853 | 04523 | 5- | 02845 | 04518 | | | | 8- | 25848 | 32688 |
| 206 | 8- | 81857 | 02387 | 83 | 02854 | 02426 | 8- | 21856 | 02456 | 8- | 25856 | 32286 |
| 210 | 62 | 22843 | 37568 | 86 | 02755 | 35687 | 8- | 02854 | 64625 | 8- | 10844 | 35527 |
| 220 | 83 | 0195 | 06415 | 80 | 81657 | 02587 | | | | 80 | 01854 | 02414 |
| 230 | 13 | 01963 | 01314 | 43 | 01953 | 65414 | 50 | 01962 | 03412 | 10 | 01964 | 02314 |
| 245 | 86 | 02953 | 35566 | 56 | 63517 | 04146 | 44 | 01861 | 01482 | 88 | 01964 | 02464 |
| 260 | 27 | 02855 | 02287 | 56 | 02755 | 02227 | 53 | 61754 | 35324 | 53 | 02864 | 31225 |
| 278 | 8- | 02 56 | 02466 | 5- | 02847 | 32417 | 87 | 01853 | 31563 | 54 | 01961 | 32512 |
| 279 | 26 | 25855 | 01486 | 20 | 51657 | 02427 | 5- | 05668 | 04488 | 53 | 01864 | 02314 |
| 285 | 6- | 22628 | 02568 | 6- | 63627 | 04467 | | | | 27 | 81624 | 02585 |
| 288 | 2- | 22655 | 63566 | 9- | 25548 | 29388 | 52 | 62536 | 63468 | 52 | 62547 | 30468 |
| 575 | 10 | 01844 | 04104 | 40 | 01853 | 04113 | 00 | 80890 | 02310 | 50 | 01863 | 32113 |
| 301 | 53 | 01754 | 02344 | 57 | 05552 | 02265 | 50 | 01854 | 03614 | 57 | 02866 | 04427 |
| 321 | 82 | 51745 | 02228 | 52 | 05564 | 28223 | 03 | 05550 | 28125 | 57 | 05654 | 30448 |
| 299 | 8- | 62748 | 32668 | 8- | 02746 | 32416 | 80 | 22746 | 00016 | 8- | 63747 | 32467 |
| 292 | 5- | 02744 | 31357 | 57 | 21653 | 29356 | 5- | 51627 | 28327 | 52 | 52445 | 29258 |
| 310 | -- | 02628 | 32428 | -- | 02628 | 32428 | | | | -- | 48205 | 32529 |
| 614 | 52 | 05657 | 02228 | 52 | 08455 | 02268 | 03 | 02227 | 01642 | 02 | 64848 | 04268 |

| III | 13h. G.M.T. 29th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 30th October $C_L C_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. $C_L C_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 5- | 02964 | 08426 | 57 | 02764 | 08127 | 59 | 02764 | 02425 | 53 | 22654 | 02365 |
| 334 | -- | 05647 | 28328 | -- | 05647 | 06328 | | | | | | |
| 340 | 51 | 43246 | 00048 | -- | 67308 | 32169 | 53 | 08445 | 32217 | 52 | 62547 | 3268 |
| 136 | 52 | 05647 | 24258 | 5- | 05677 | 32127 | 02 | 62558 | 02268 | 5- | 52618 | 03368 |
| 336 | 51 | 05645 | 3428 | 62 | 64426 | 04368 | | | | 57 | 22652 | 04388 |
| 350 | 57 | 22675 | 02368 | 52 | 62545 | 04368 | 5- | 61528 | 04368 | 02 | 62418 | 03268 |
| 368 | 02 | 62538 | 06468 | 02 | 62438 | 61568 | 5- | 05658 | 39568 | 37 | 22656 | 04367 |
| 379 | 62 | 62536 | 02468 | 62 | 62536 | 04568 | 62 | 63536 | 04468 | 5- | 62538 | 32468 |
| 390 | 57 | 61634 | 04368 | 62 | 52535 | 04268 | | | | -- | 48109 | 00045 |
| 382 | 62 | 22636 | 06368 | | | | 62 | 62435 | 04468 | 62 | 62526 | 02168 |
| 438 | 52 | 22745 | 06568 | 8- | 02748 | 04228 | 50 | 02743 | 02415 | 57 | 02743 | 20415 |
| 430 | 57 | 61565 | 05468 | 53 | 05644 | 06365 | | | | 50 | 01753 | 18123 |
| 409 | 62 | 62668 | 03668 | 52 | 62724 | 06667 | 62 | 61636 | 04588 | 52 | 63626 | 03468 |

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

§ 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 October.
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 * | r0rcr0m | ir0d0cm | cr0RofF |
| Croydon | cFrrmir0 | cmr0r0 | cF+Rrcf |
| Greenwich | crcm0 | cid0m0 | cRrmFbf |
| Camden Square | c | o | * |
| Kensington | omp | om | * |
| Hampstead | or | orf | of |

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time 0·5 6hrs 30th
Min. Time 0·1 0-1hrs 30th

| 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 | 48 | 46 | 42 | 2 | 10 | 0·0 | * | * |
| Croydon | 47 | 46 | 42 | 3 | 14 | 0·0 | * | * |
| Greenwich | 48 | 46 | 42 | 2·3 | 9·4 | 0·0 | 84 | 92 |
| Westminster | 50 | 49 | 49 | 10·3 | | * | 89 | 95 |
| Regents Park | 49 | 44 | 42 | 2·2 | 9·2 | * | 96 | 100 |
| Camden Square | 44 | 44 | 41 | 11·4 | | * | * | 99 |
| Kensington | 48 | 44 | 41 | 2·1 | 9·3 | * | 87 | 88 |
| Hampstead | 45 | 44 | 41 | 2·1 | 9·4 | * | * | 99 |

SEORET

Page 1 **BRITISH SECTION**

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

Saturday 31st October 1942

No. 29563

## OBSERVATIONS at 13h. G.M.T. 30th October

| 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) | Med. (11) | High (12) | Amount Low 0–10 (13) | Total 0–10 (14) | Height of Base (feet) (15) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 00·1 | 0 | N | 2 | zo | 55 | 85 | 50 | 5 | 5 | 3 | 1 | 4-6 | 9+ | 4000 |
| | Croydon | 00·4 | 0 | N | 2 | f+ | 58 | 85 | 51 | 2 | – | – | – | 10 | 10 | <150 |
| | S. Farnborough | 00·0 | +2 | NE | 1 | m | 53 | 92 | 52 | 4 | 5 | 7 | – | 9+ | 10 | 500 |
| | Boscombe Down | 01·1 | +2 | NEN | 2 | °/d | 43 | 92 | 42 | 6 | 5 | – | – | 10 | 10 | 900 |
| | Thorney Island | 99·5 | 0 | S | 1 | c | 59 | 75 | 51 | 9 | 2 | 4 | 4 | 2-3 | 9+ | 2500 |
| | Lympne | 00·2 | −6 | SE | 1 | c | 57 | 85 | 52 | 7 | 5 | 7 | – | 7-8 | 10 | 2000 |
| | Manston | 00·9 | +2 | SSE | 2 | c | 55 | 92 | 52 | 7 | 5 | – | – | 10 | 10 | 1500 |
| 2 | Shoeburyness | 01·7 | −2 | SSE | 2 | c | 58 | 85 | 55 | 7 | 8 | 1 | – | 2-3 | 10 | 3000 |
| | Felixstowe | 00·6 | +2 | ESE | 1 | zo | 56 | 92 | 54 | 6 | 5 | 7 | – | 7-8 | 10 | 4000 |
| | Gorleston | 00·9 | −4 | ENE | 1 | c-bc | 55 | 92 | 52 | 7 | 5 | 3 | – | 4-6 | 7-8 | 1200 |
| | Mildenhall | 00·8 | +2 | NE | 2 | zo | 54 | 92 | 51 | 6 | 5 | – | – | 9 | 10 | 200 |
| | Cranwell | 02·7 | 0 | N'E | 2 | iro | 48 | 92 | 46 | 6 | 5 | 2 | – | 4-6 | 10 | 400 |
| 3 | Birmingham | 02·7 | 0 | NE | 4 | m | 45 | 97 | 44 | 4 | 6 | – | – | 10 | 10 | 800 |
| | Upper Heyford | 00·5 | −2 | NE | 3 | ido | 46 | 97 | 46 | 6 | 6 | – | – | 10 | 10 | 600 |
| 4 | Ross-on-Wye | 01·8 | −4 | NEN | 3 | ido | 46 | 92 | 44 | 4 | 5 | – | – | 10 | 10 | 600 |
| 5 | Hartland Point | 99·6 | −4 | NE | 5 | c | 49 | 85 | 45 | 7 | 2 | 6 | 8 | 7-8 | 9+ | 1200 |
| | Bristol | 01·8 | +2 | NNE | 2 | zo | 47 | 97 | 45 | 5 | 5 | 2 | – | 7-8 | 10 | 800 |
| | Portland Bill | 98·8 | +2 | NE | 4 | c | 53 | 92 | 51 | 8 | 2 | – | – | 9 | 9 | 2500 |
| | Plymouth | 99·6 | −6 | ENE | 1 | zo | 53 | 85 | 48 | 7 | 5 | – | – | 2-3 | 9+ | 2500 |
| | The Lizard | 98·1 | −4 | NNE | 3 | c-bc | 50 | 92 | 48 | 7 | 8 | 6 | – | 7-8 | 7-8 | 1500 |
| | Scilly (St. Mary's) | 99·0 | +2 | NE | 5 | c | 51 | 85 | 47 | 7 | 5 | 2 | – | 7-8 | 10 | 1200 |
| | Guernsey | | | | | | | | | | | | | | | |
| 6 | Pembroke | 02·1 | −2 | NE | 4 | c | 49 | 75 | 42 | 8 | 5 | – | – | 9+ | 9+ | 2000 |
| 7 | Holyhead (Valley) | 05·0 | 0 | NEE | 3 | c | 48 | 75 | 41 | 8 | 5 | 7 | – | 9+ | 10 | 3000 |
| | Chester (Sealand) | 04·5 | 0 | N | 2 | c | 49 | 75 | 40 | 6 | 5 | – | – | 10 | 10 | 3000 |
| 8 | Manchester | 03·9 | 0 | NNE | 4 | zo | 48 | 75 | 41 | 6 | 5 | 3 | – | 7-8 | 9 | 2000 |
| 10 | Spurn Head | 03·1 | +6 | NEN | 5 | iro | 45 | 85 | 36 | 7 | 5 | 2 | – | 7-3 | 10 | 1500 |
| | Catterick | 05·8 | +4 | N | 4 | iro | 46 | 85 | 41 | 6 | 5 | 7 | – | 7-8 | 9+ | 1000 |
| | Tynemouth | 05·4 | +6 | NNE | 6 | c-bc/pr | 48 | 85 | 43 | 7 | 2 | – | – | 7-8 | 7-8 | 2200 |
| 11 | St. Abbs Head | 06·8 | +10 | N | 6 | b-bc/pr | 45 | 75 | 38 | 7 | 6 | – | – | 9+ | 9+ | 2000 |
| | Leuchars | 08·2 | +6 | NNW | 3 | pr | 45 | 85 | 42 | 8 | 2 | 6 | – | 2-3 | 2-3 | 2500 |
| 12 | Renfrew (Abbots I.) | 08·8 | +2 | NNE | 3 | c-bc | 48 | 55 | 33 | 9 | 5 | – | 1 | 7-8 | 7-8 | 3000 |
| | Eskdalemuir | 06·8 | +8 | NNE | 4 | bc | 45 | 55 | 31 | 8 | 8 | – | 2 | 4-6 | 4-6 | 3300 |
| | Point of Ayre | 06·9 | +4 | NEE | 5 | c-bc | 48 | 75 | 39 | 8 | 7 | – | 1 | 7-8 | 7-8 | 3000 |
| 13A | Tiree | 11·6 | +6 | NNE | 5 | cbc/cbpr | 46 | 65 | 36 | 9 | 8 | – | – | 7-8 | 7-8 | 2500 |
| 13B | Stornoway | 12·8 | −4 | NNE | 4 | pr | 43 | 92 | 41 | 8 | 2 | 6 | – | 4-6 | 7-8 | 2500 |
| 15 | Dalwhinnie | 10·0 | +4 | NNE | 3 | bc | 40 | 65 | 29 | 8 | 8 | – | – | 4-6 | 4-6 | 2500 |
| | Aberdeen | 07·1 | +4 | NNW | 5 | bjp | 43 | 75 | 36 | 8 | 3 | 6 | – | 1 | 1 | 2500 |
| | Wick | 09·6 | +2 | N'W | 5 | pr | 44 | 85 | 38 | 7 | 8 | – | – | 9 | 9 | 2000 |
| 16 | Sumburgh | 07·9 | +6 | N | 6 | bc/pr | 44 | 85 | 39 | 8 | 8 | 6 | – | 4-6 | 4-6 | 1500 |
| 17 | Blacksod Point | 11·5 | +2 | NEN | 5 | c/pr | 48 | 75 | 41 | 8 | 5 | – | – | 9 | 9 | 2500 |
| 18 | Malin Head | 10·1 | +2 | NNE | 5 | bc | 48 | 65 | 37 | 8 | 2 | – | – | 4-6 | 4-6 | 2500 |
| | Aldergrove | 09·2 | −2 | NEN | 3 | bc | 45 | 55 | 32 | 9 | 1 | – | – | 4-6 | 4-6 | 3000 |
| 19 | *Birr Castle | 07·7 | −4 | NE | 3 | bc | 48 | 65 | 37 | 8 | 5 | 4 | – | 2-3 | 4-6 | 2500 |
| 20 | Valentia Obsy. | 08·1 | −4 | NE | 5 | b-bc | 48 | 55 | 33 | 9 | 1 | – | – | 2-3 | 2-3 | 2500 |
| | Roches Point | 05·6 | +2 | NNE | 4 | b-bc | 48 | 75 | 41 | 8 | 1 | – | 5 | 1 | 2-3 | 4000 |

## OBSERVATIONS at 18h. G.M.T. 30th October

| 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) | 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) | 99·7 | +2 | N'E | 2 | m | 52 | 92 | 50 | 4 | 5 | 2 | – | 9+ | 10 | 2500 | 1 | * |
| Croydon | 00·2 | 0 | N | 1 | df | 53 | 92 | 51 | 3 | – | – | – | 10 | 10 | <150 | 1 | * |
| S. Farnborough | 99·8 | +4 | N'W | 2 | m | 51 | 92 | 48 | 4 | 5 | – | – | 10 | 10 | 1400 | 1 | * |
| Boscombe Down | 00·9 | +2 | NNE | 3 | zo | 47 | 97 | 47 | 5 | 5 | – | – | 10 | 10 | 200 | 1 | * |
| Thorney Island | 99·1 | 0 | N'W | 3 | zo | 52 | 97 | 51 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Lympne | 98·7 | 0 | – | 0 | zo | 51 | 97 | 51 | 6 | 5 | – | – | 9 | 9 | 4500 | 1 | § 1 |
| Manston | 98·9 | −4 | – | 0 | m | 52 | 92 | 51 | 4 | 5 | – | – | 7-8 | 10 | 1700 | 0 | * |
| Shoeburyness | 00·1 | −2 | E'S | 1 | c | 54 | 92 | 52 | 7 | 5 | – | – | 10 | 10 | 3500 | 2 | * |
| Felixstowe | 99·8 | +2 | N | 1 | °zo | 54 | 97 | 53 | 6 | 5 | – | – | 9+ | 9+ | 2500 | 1 | 1 |
| Gorleston | 00·3 | 0 | NE | 3 | °/r | 53 | 97 | 53 | 6 | 5 | – | – | 10 | 10 | 1300 | 1 | 3 |
| Mildenhall | 00·7 | +2 | NNE | 3 | °/d | 51 | 97 | 49 | | – | – | – | 10 | 10 | 600 | 1 | * |
| Cranwell | 03·5 | +8 | N'E | 3 | d.d. | 46 | 97 | 45 | 5 | 5 | 2 | – | 7-8 | 10 | 1000 | 1 | * |
| Birmingham | 03·2 | +6 | NNE | 4 | iro | 45 | 97 | 44 | 4 | 6 | – | – | 10 | 10 | 450 | 1 | * |
| Upper Heyford | 00·9 | +6 | NE | 3 | d.d. | 46 | 97 | 46 | 5 | 6 | – | – | 10 | 10 | 400 | 1 | * |
| Ross-on-Wye | 02·3 | +4 | N'E | 3 | d.d. | 46 | 92 | 45 | 4 | 6 | 2 | – | 9 | 10 | 600 | 1 | * |
| Hartland Point | 00·5 | +4 | NE | 5 | c | 49 | 92 | 47 | 6 | 5 | 7 | – | 7-8 | 9+ | 1500 | 1 | 4 |
| Bristol | 02·1 | +6 | E | 2 | d.d. | 46 | 97 | 46 | 4 | 5 | – | – | 10 | 10 | 400 | 1 | * |
| Portland Bill | 98·9 | +6 | ENE | 3 | c | 52 | 92 | 50 | 8 | 5 | 2 | – | 7-8 | 9 | 2500 | 1 | 4 |
| Plymouth | 00·1 | +6 | NE'E | 2 | zo | 46 | 97 | 45 | 6 | 5 | 3 | 2 | 2-3 | 7-8 | 3500 | 0 | 2 |
| The Lizard | 00·2 | +12 | N | 3 | c | 47 | 92 | 46 | 7 | 8 | 2 | – | 7-8 | 10 | 1500 | 1 | 3 |
| Scilly (St. Mary's) | 00·1 | +10 | NE | 4 | c | 51 | 85 | 45 | 7 | 5 | – | – | 10 | 10 | 1200 | 1 | 4 |
| Guernsey | | | | | | | | | | | | | | | | | |
| Pembroke | 03·5 | +6 | NE | 4 | zo | 48 | 75 | 41 | 6 | 5 | 1 | – | 9 | 10 | 1500 | 1 | 3 |
| Holyhead (Valley) | 05·3 | +[illegible] | NE'N | 4 | pr | 45 | 85 | 39 | 6 | 9 | 6 | – | 7-8 | 10 | 1000 | 1 | 3 |
| Chester (Sealand) | 05·1 | +8 | NE | 3 | c | 47 | 75 | 40 | 6 | 5 | – | – | 10 | 10 | 2500 | 0 | * |
| Manchester | 04·8 | +8 | N | 4 | zo | 45 | 85 | 40 | 6 | 5 | 3 | – | 2-3 | 9+ | 2000 | 1 | * |
| Spurn Head | 03·6 | +4 | NNE | 5 | c | 49 | 85 | 45 | 7 | 5 | 2 | – | 7-8 | 10 | 1500 | 0 | 4 |
| Catterick | 06·7 | +4 | N | 3 | c-bc/cpr | 43 | 85 | 40 | 6 | 5 | 3 | – | 4-6 | 7-8 | 1000 | 1 | * |
| Tynemouth | 06·5 | +8 | NNE | 6 | pr | 45 | 85 | 40 | 7 | 8 | – | – | 9 | 9 | 2500 | 1 | 4 |
| St. Abbs Head | 07·7 | +12 | N | 5 | c-bc | 44 | 75 | 35 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 | 0 | 5 |
| Leuchars | 08·4 | +6 | NNW | 2 | b | 41 | 92 | 39 | 8 | 5 | – | – | Tr | Tr | 2500 | 1 | * |
| Renfrew (Abbots I.) | 09·3 | +6 | – | 0 | b | 38 | 75 | 31 | 7 | 4 | – | – | Tr | Tr | 2500 | 1 | * |
| Eskdalemuir | 08·6 | +14 | N | 3 | c-bc | 37 | 75 | 30 | 8 | 5 | – | – | 7-8 | 7-8 | 2100 | 1 | * |
| Point of Ayre | 07·7 | +10 | NE'E | 5 | c | 47 | 65 | 36 | 8 | 8 | – | – | 9+ | 9+ | 3000 | 0 | 5 |
| Tiree | 11·6 | +4 | NNE | 4 | b-bc | 43 | 75 | 37 | 9 | 2 | 6 | – | 2-3 | 2-3 | 3000 | 0 | 4 |
| Stornoway | 12·0 | 0 | NNW | 4 | c-bc | 40 | 85 | 36 | 8 | 6 | 7 | – | 4-6 | 7-8 | 2000 | 2 | 3 |
| Dalwhinnie | 10·0 | +4 | NNE | 3 | c-bc | 36 | 75 | 30 | 8 | 8 | – | – | 7-8 | 7-8 | 2500 | 0 | * |
| Aberdeen | 07·8 | +8 | NNW | 3 | b | 40 | 85 | 36 | 8 | 3 | 6 | – | 1 | 1 | 2500 | 1 | 3 |
| Wick | 09·8 | −2 | N'W | 5 | bc | 41 | 85 | 36 | 8 | 8 | – | – | 4-6 | 4-6 | 2000 | 1 | * |
| Sumburgh | 08·3 | +8 | N | 5 | b-bc/pr | 40 | 85 | 35 | 8 | 2 | 3 | – | 2-3 | 2-3 | 2000 | 1 | 4 |
| Blacksod Point | 11·2 | +6 | NE'N | 6 | pr | 46 | 92 | 44 | 8 | 6 | 2 | – | 4-6 | 9 | 2500 | 1 | 5 |
| Malin Head | 10·0 | +6 | NNE | 3 | bc | 46 | 65 | 35 | 8 | 2 | – | – | 4-6 | 4-6 | 2500 | 1 | 5 |
| Aldergrove | 09·8 | +8 | – | 0 | c | 42 | 75 | 35 | 9 | 5 | – | – | 9+ | 9+ | 2000 | 1 | * |
| *Birr Castle | 08·0 | −4 | N | 2 | c-bc | 44 | 75 | 37 | 8 | 5 | – | – | 7-8 | 7-8 | 2500 | 1 | * |
| Valentia Obsy. | 08·4 | +8 | NE'N | 5 | b-bc | 45 | 65 | 34 | 9 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | 4 |
| Roches Point | 06·5 | +10 | NNE | 4 | bc | 44 | 75 | 37 | 8 | 5 | 3 | – | 2-3 | 4-6 | 2500 | 1 | 4 |

## PAST 24 HOURS.

| Stations | Weather 7h.–13h. 30th (39) | 13h.–18h. 30th (40) | 18h. 30th to 1h. 31st (41) | 1h.–7h. 31st (42) |
|---|---|---|---|---|
| London (Kew) | FFbccmo | cmom | rroirom | oirocmo |
| Croydon | bcfbcFcmo | cfdf | ofircmir | cmircmrr |
| S. Farnborough | oFbccmo | cmmomcmofmidmo | | omidfmoc |
| Boscombe Down | cdoidocmocidomoc | | cmo | omcw |
| Thorney Island | bcc | ccz | czomow | cmowc |
| Lympne | bcmocmo | ccmo | crrmo | orrmocm |
| Manston | c | cbcmo | cRRm | cRRcmo |
| Shoeburyness | bcmoc | ciroc | | crrc |
| Felixstowe | cmobcmo | cmo | crormcrm | irmcmc |
| Gorleston | cpro | crorocz | orr | orrqoczo |
| Mildenhall | cmo | cmocidocmo | cirmo | rrmroc |
| Cranwell | crorormiro | crodomoc | | crrc |
| Birmingham | forirom | cirom | oirop | obc |
| Upper Heyford | crrido | cidodod | cmircmo | cbcmo |
| Ross-on-Wye | como | oromd | domdom | omcmo |
| Hartland Point | c | c | c | c |
| Bristol | cm idmo | cmodd | medmrrf | crofrom |
| Portland Bill | c | c | cc | o |
| Plymouth | cmo | cbcmo | bcmocmm | cmo |
| The Lizard | c | c | coc | c |
| Scilly (St. Mary's) | ciroc | c | crro | c |
| Guernsey | | | | |
| Pembroke | c | cmo | cmoc | cirmo |
| Holyhead (Valley) | ciroc | cpro | c | ciroc |
| Chester (Sealand) | cmo | czo | czomo | cmozo |
| Manchester | cirom. | czo | cmo | cmo |
| Spurn Head | ciro | c | c | proc |
| Catterick | cmoiromo | cpromo | omoirmo | bcpro |
| Tynemouth | oirocp | cpd | cmo | bccpoq |
| St. Abbs Head | cqpr | cqprcq | bcqcq | cq |
| Leuchars | bc bcpro | bccprobc | bbx | bxbcx |
| Renfrew (Abbots I.) | bcbcy | cbcybc | bmo | bbcmox |
| Eskdalemuir | cprobc | bcc | cbc | bob |
| Point of Ayre | bbcc | c | cbcb | b |
| Tiree | bcprobc | bc | bcprobc | bc |
| Stornoway | cphr | cprbcc | bccpr | cpr |
| Dalwhinnie | bccbc | bcc | | cbc |
| Aberdeen | bcprq | bcpprob | | bbcpro |
| Wick | bcprocpro | bc | bc | bc |
| Sumburgh | cprbc | bcprobc | bcprob | b,cpr |
| Blacksod Point | pr | pr | c | r |
| Malin Head | bc | bc | pr | bc |
| Aldergrove | bbcy | bcyc | cbcc | cirbcbx |
| *Birr Castle | bc | c | | c |
| Valentia Obsy. | bc | bc | bc | b |
| Roches Point | bc | bc | b | b |

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 31st October

| Districts | Forecast |
|---|---|
| 1 S.E. England, 2 E. England, 3 E. Midlands | Moderate or light northerly wind. Mainly cloudy at first, bright intervals to-morrow, occasional showers; rather cold; ground frost locally at night. |
| 4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands | Moderate or light northerly wind. Bright intervals, a few local showers; rather cold; ground frost locally at night. |
| 10 N.E. England, 11 S.E. Scotland | Moderate northerly wind. Bright intervals, occasional showers; rather cold; ground frost locally at night. |
| 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland | Light or moderate northeast wind. Mainly fair with long bright periods; rather cold: ground frost locally at night. |
| 15 N.E. Scotland | As 10-11 |
| 16 Orkneys and Shetlands | As 10-11 |
| 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland | As 12-14 |

### GENERAL INFERENCE

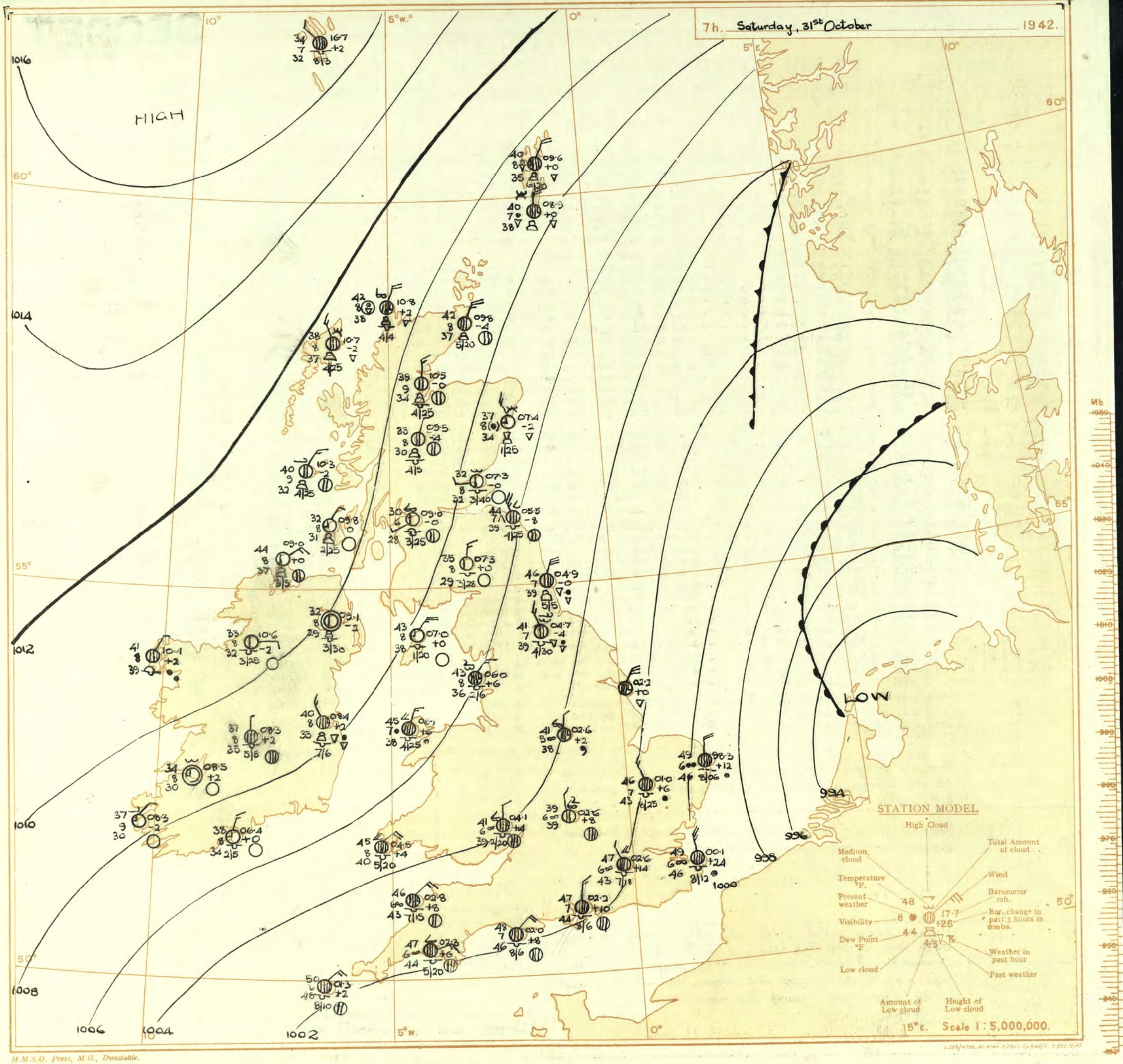
Pressure is low to east and south of the British Isles. A ridge of high pressure extends from north of the Azores to between Faroes and Iceland, and is declining slightly. Cold northerly winds will prevail generally. It will be cloudy at first in the Southeast. Bright periods will occur in most districts but especially in the West. There will be occasional showers in the North and East.

### FURTHER OUTLOOK

Rather cold weather continuing but bright periods in most districts. Frost and fog in places at night.

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, M.O., Dunstable.

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

**Explanation of Frontal Lines shown on Charts**

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

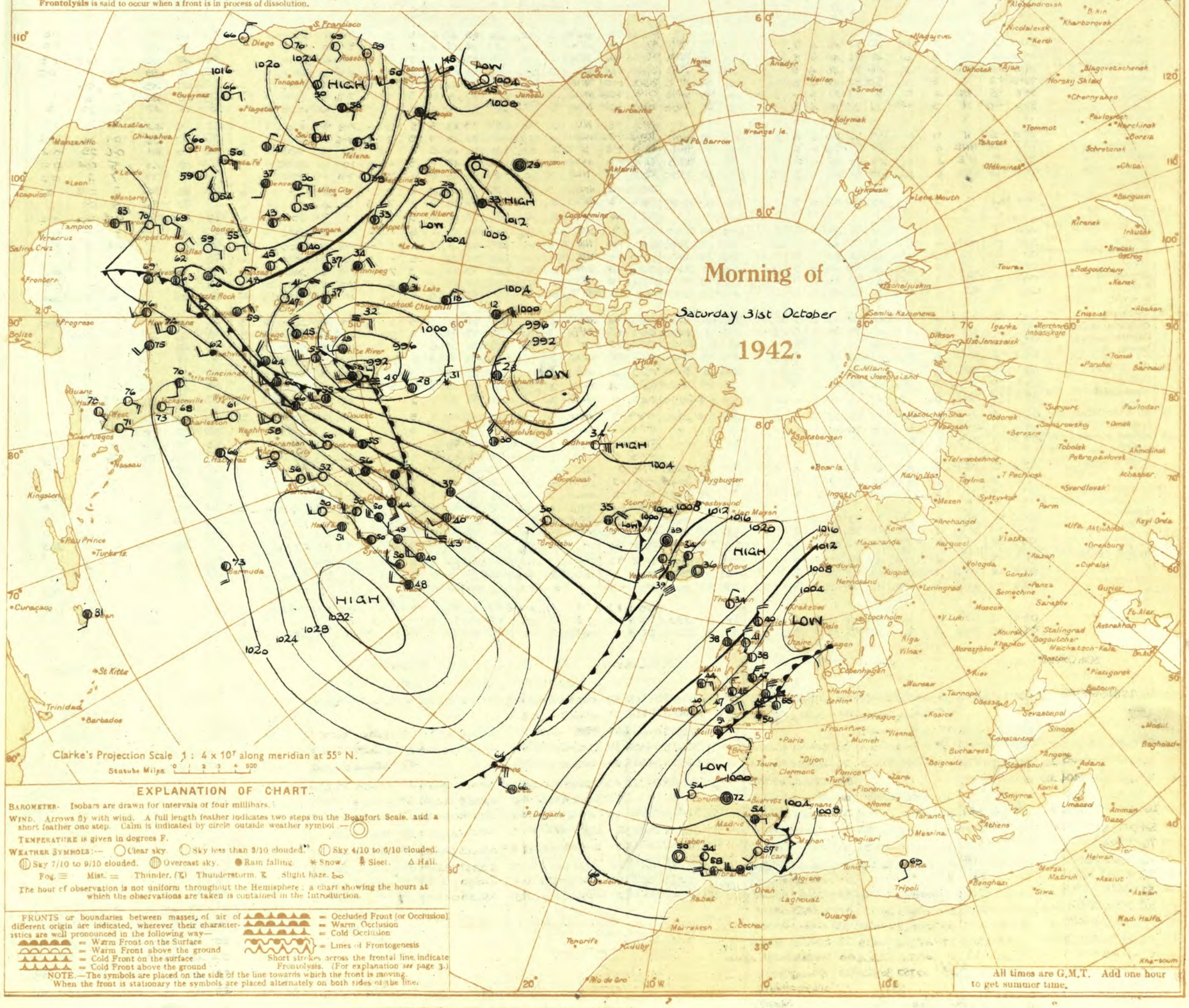
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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




## 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 31st October 1942

No. 29563

## OBSERVATIONS at 1 hr. G.M.T. 31st October

| 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 | * | * | * | * | * | 49 | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 290 | 00·2 | +2 | N | 2 | $ir_0$ | 50 | 97 | 48 | 4 | 5 | - | - | 10 | 10 | 700 |
| | S. Farnborough | 226 | 00·2 | +4 | N | 3 | $id_0$ | 49 | 92 | 46 | 5 | 5 | - | - | 10 | 10 | 800 |
| | Boscombe Down | 417 | 01·6 | +6 | N'E | 3 | $z_0$ | 46 | 97 | 46 | 6 | 5 | - | - | 10 | 10 | 300 |
| | Thorney Island | 10 | 96·6 | +2 | N | 3 | $z_0$ | 50 | 92 | 48 | 6 | 5 | - | - | 10 | 10 | 900 |
| | Lympne .. | 283 | 96·8 | -6 | NW | 4 | rr | 51 | 97 | 51 | 6 | - | 2 | - | 10 | 10 | 1200 |
| | Manston ... | 154 | 96·6 | -10 | N | 3 | RRm | 52 | 97 | 51 | 4 | 5 | - | - | 10 | 10 | 700 |
| 2 | Shoeburyness ... | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 12 | 97·0 | -6 | N | 5 | rr | 50 | 97 | 50 | 6 | 5 | 2 | - | 7-8 | 10 | 1100 |
| | Gorleston ... | 5 | 97·7 | -14 | NNE | 6 | rr | 55 | 97 | 53 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Mildenhall ... | 15 | 99·8 | -2 | N'E | 4 | $ir_0$ | 49 | 92 | 46 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Cranwell ... | 203 | 02·6 | -6 | NNW | 4 | $z_0$ | 45 | 92 | 42 | 6 | 5 | 7 | - | 9 | 10 | 2900 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | 01·1 | +4 | N | 2 | $z_0$ | 45 | 92 | 43 | 5 | 5 | - | - | 10 | 10 | 1000 |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Hartland Point | 299 | 01·6 | +2 | NE | 4 | c | 48 | 92 | 46 | 6 | 5 | 2 | - | 7-8 | 9+ | 1500 |
| | Bristol ... | 209 | 03·1 | +6 | NNE | 3 | rf | 45 | 97 | 44 | 3 | - | 2 | - | 10 | 10 | 500 |
| | Portland Bill ... | 32 | 00·6 | +10 | NE | 3 | c-bc | 49 | 92 | 47 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 |
| | Plymouth ... | 82 | 01·6 | +6 | - | 0 | $z_0$ | 48 | 92 | 44 | 6 | 5 | 7 | - | 4-6 | 10 | 2500 |
| | The Lizard ... | 240 | 00·9 | 0 | NNE | 3 | c-bc | 47 | 92 | 45 | 7 | 8 | 6 | - | 7-8 | 7-8 | 1000 |
| | Scilly (St. Mary's) | 163 | 01·2 | +2 | NE | 4 | c/r | 51 | 85 | 47 | 6 | 5 | 2 | - | 4-6 | 10 | 1200 |
| | Guernsey ... | 175 | | | | | | | | | | | | | | | |
| 6 | Pembroke ... | 142 | 03·7 | +2 | NE | 4 | c | 47 | 85 | 42 | 7 | 5 | 2 | - | 9+ | 10 | 1500 |
| 7 | Holyhead (Valley) | 32 | 05·7 | -2 | N'E | 3 | c | 45 | 75 | 38 | 8 | 5 | 3 | - | 2-3 | 9 | 4000 |
| | Chester (Sealand) | 16 | 05·1 | -2 | N'W | 3 | c | 43 | 85 | 38 | 6 | 5 | - | - | 10 | 10 | 3500 |
| 8 | Manchester ... | 235 | 04·8 | -2 | NW'N | 3 | $z_0$ | 43 | 85 | 38 | 6 | 5 | 3 | - | 4-6 | 9+ | 1900 |
| 10 | Spurn Head ... | 29 | 02·3 | -14 | NNE | 6 | c | 48 | 75 | 41 | 7 | 2 | 1 | - | 4-6 | 10 | 1500 |
| | Catterick ... | 175 | 05·8 | -6 | NNW | 3 | $z_0$ | 42 | 92 | 40 | 5 | 5 | 3 | - | 2-3 | 9+ | 2000 |
| | Tynemouth ... | 108 | 06·0 | -4 | NNE | 5 | c-bc /pr | 47 | 75 | 40 | 7 | 2 | - | - | 7-8 | 7-8 | 2500 |
| 11 | St. Abbs Head | 280 | 06·7 | -4 | NNW | 5 | obcq | 44 | 75 | 37 | 7 | 2 | 4 | - | 4-6 | 7-8 | 2500 |
| | Leuchars ... | 36 | 08·4 | +4 | WNW | 2 | b | 38 | 92 | 35 | 9 | - | - | - | 0 | 0 | - |
| 12 | Renfrew (Abbots I.) | 19 | 09·5 | -2 | SW'S | 1 | $z_0$ | 29 | 97 | 29 | 6 | - | 3 | - | 0 | Tr | - |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Point of Ayre... | 30 | 07·8 | +2 | NE'E | 5 | b | 44 | 75 | 38 | 8 | 4 | 4 | - | Tr | Tr | 2500 |
| 13A | Tiree ... ... | 44 | 11·2 | -4 | NE | 2 | b-bc | 40 | 75 | 32 | 9 | 1 | - | - | 2-3 | 2-3 | 3000 |
| 13B | Stornoway ... | 15 | 11·8 | -8 | N | 3 | c/pr | 38 | 97 | 37 | 7 | 8 | 7 | - | 9 | 9+ | 2000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen † ... | 79 | 08·4 | -2 | NW | 4 | phr | 38 | 92 | 36 | 8 | 8 | 4 | 3 | 4-6 | 4-6 | 2500 |
| | Wick ... | 114 | 10·2 | -2 | N'W | 4 | bc | 41 | 85 | 38 | 8 | 2 | - | - | 4-6 | 4-6 | 2000 |
| 16 | Sumburgh .. | 19 | 08·9 | 0 | N | 4 | b-bc/pr | 39 | 92 | 36 | 8 | 2 | - | - | 2-3 | 2-3 | 2000 |
| 17 | Blacksod Point | 18 | 10·7 | -8 | E | 4 | c-bc | 44 | 85 | 40 | 8 | 6 | - | - | 7-8 | 7-8 | 1500 |
| 18 | Malin Head ... | 84 | 09·8 | -4 | NE'E | 4 | bbc | 45 | 65 | 35 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 |
| | Aldergrove ... | 268 | 09·5 | +2 | NE'N | 2 | c-bc | 41 | 75 | 33 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy. | 30 | 08·6 | -4 | NE'N | 2 | b | 40 | 75 | 33 | 9 | 1 | - | - | Tr | Tr | 2500 |
| | Roches Point | 22 | 06·6 | -4 | NNE | 4 | b | 42 | 75 | 35 | 8 | 5 | - | - | 1 | 1 | 2500 |

## OBSERVATIONS at 7 hr. G.M.T. 31st October

| 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) | 02·6 | +18 | NW'N | 2 | $z_0$ | 46 | 85 | 42 | 6 | 5 | 3 | - | 7-8 | 9 | 2500 | 1 | * |
| Croydon ... | 02·6 | +14 | NW'N | 1 | $z_0$ | 47 | 85 | 43 | 6 | 5 | 2 | - | 9+ | 10 | 1800 | 1 | * |
| S. Farnborough | 02·5 | +14 | N'W | 2 | c | 46 | 85 | 42 | 7 | 5 | 7 | - | 9+ | 10 | 1800 | 1 | * |
| Boscombe Down | 03·5 | +14 | N | 2 | $z_0$ | 43 | 92 | 42 | 6 | 5 | 7 | - | 4-6 | 9 | 2000 | 1 | * |
| Thorney Island | 02·2 | +10 | N'E | 3 | c | 47 | 85 | 44 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| Lympne .. | 01·0 | +26 | NNW | 4 | c | 47 | 92 | 45 | 8 | 5 | - | - | 7-8 | 9+ | 1200 | 1 | § 3 |
| Manston ... | 00·1 | +24 | N'W | 5 | $z_0$ | 49 | 85 | 46 | 6 | 5 | - | - | 10 | 10 | 1200 | 1 | * |
| Shoeburyness ... | 01·2 | +8 | NW | 3 | c | 47 | 85 | 43 | 8 | 5 | 3 | - | 7-8 | 9+ | 4000 | 1 | * |
| Felixstowe ... | 99·6 | +22 | NW'N | 4 | c-bc | 47 | 92 | 45 | 7 | 5 | 7 | 2 | 4-6 | 7-8 | 1500 | 1 | 3 |
| Gorleston ... | 98·3 | +12 | N | 4 | $r_0r_0$ | 49 | 92 | 46 | 6 | 6 | - | - | 10 | 10 | 600 | 1 | 3 |
| Mildenhall ... | 01·0 | +6 | NNW | 3 | c | 46 | 85 | 43 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Cranwell ... | 03·1 | +4 | NW | 3 | $z_0$ | 41 | 97 | 40 | 6 | 5 | 7 | - | 7-8 | 9+ | 2500 | 1 | * |
| Birmingham ... | 04·7 | +4 | NNW | 3 | m | 39 | 92 | 37 | 4 | - | 6 | - | 0 | 4-6 | - | | * |
| Upper Heyford | 02·6 | +8 | N'W | 2 | $z_0$ | 39 | 97 | 39 | 6 | - | 7 | 6 | 0 | 4-6 | - | 1 | * |
| Ross-on-Wye | 04·1 | +4 | N | 2 | $z_0$ | 41 | 92 | 39 | 6 | 5 | 7 | - | 1 | 9+ | 2000 | 1 | * |
| Hartland Point | 02·8 | +8 | NE | 3 | $z_0$ | 46 | 92 | 43 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 4 |
| Bristol ... | 04·2 | +14 | NE | 2 | m | 43 | 92 | 41 | 4 | 5 | 1 | - | 2-3 | 10 | 800 | 1 | * |
| Portland Bill ... | 02·0 | +8 | NE | 4 | o | 48 | 92 | 46 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 4 |
| Plymouth ... | 02·3 | +6 | ENE | 3 | $z_0$ | 47 | 92 | 44 | 6 | 5 | 7 | - | 7-8 | 10 | 2000 | 0 | 2 |
| The Lizard ... | 01·4 | +4 | NE | 3 | c-bc | 47 | 92 | 40 | 7 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 0 | 4 |
| Scilly (St. Mary's) | 01·3 | +2 | NE'E | 3 | c | 50 | 92 | 48 | 6 | 5 | - | - | 10 | 10 | 1000 | 1 | 4 |
| Guernsey ... | | | | | | | | | | | | | | | | | |
| Pembroke ... | 04·5 | +4 | NE'E | 4 | c | 45 | 85 | 40 | 8 | 5 | 2 | - | 7-8 | 10 | 2000 | 0 | 3 |
| Holyhead (Valley) | 06·1 | +6 | N'E | 3 | $ir_0$ | 45 | 75 | 38 | 7 | 5 | 2 | - | 4-6 | 10 | 2500 | 1 | 3 |
| Chester (Sealand) | 05·3 | +2 | N | 2 | $z_0$ | 43 | 75 | 36 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | * |
| Manchester ... | 05·1 | +6 | WNW | 2 | m | 40 | 92 | 37 | 4 | 5 | 3 | - | 4-6 | 10 | 4000 | 0 | * |
| Spurn Head ... | 02·2 | 0 | N'E | 6 | c | 47 | 75 | 39 | 7 | 5 | 9 | - | 4-6 | 9 | 1500 | 1 | 5 |
| Catterick ... | 04·7 | -4 | NNW | 3 | bc/pr | 41 | 92 | 39 | 7 | 5 | 3 | 2 | 4-6 | 4-6 | 3000 | 1 | * |
| Tynemouth ... | 04·9 | 0 | NNE | 6 | c-bc /pr | 46 | 75 | 39 | 7 | 2 | - | - | 7-8 | 7-8 | 2500 | 1 | 4 |
| St. Abbs Head | 05·5 | -8 | NNW | 5 | c-bcq | 44 | 85 | 39 | 7 | 5 | 4 | - | 4-6 | 7-8 | 2500 | 0 | 5 |
| Leuchars ... | 07·3 | 0 | W | 1 | b-bc | 32 | 97 | 32 | 8 | 5 | 3 | - | 2-3 | 2-3 | 4000 | 1 | * |
| Renfrew (Abbots I.) | 09·0 | 0 | WSW | 1 | b-bc | 30 | 92 | 28 | 6 | 4 | 7 | - | 2-3 | 2-3 | 2500 | 1 | * |
| Eskdalemuir ... | 07·3 | 0 | N'E | 3 | b-bc | 35 | 85 | 29 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| Point of Ayre... | 07·0 | 0 | NE | 5 | b | 43 | 85 | 38 | 8 | 4 | - | - | Tr | Tr | 2000 | 0 | 5 |
| Tiree ... ... | 10·3 | -2 | NE'N | 3 | bc | 40 | 75 | 32 | 9 | 2 | - | 1 | 4-6 | 4-6 | 2500 | 0 | 3 |
| Stornoway ... | 10·7 | -2 | NNW | 3 | c-bc | 38 | 92 | 37 | 8 | 8 | 6 | - | 4-6 | 7-8 | 2500 | 1 | 1 |
| Dalwhinnie ... | 09·5 | -4 | NNE | 1 | bc | 33 | 85 | 30 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| Aberdeen † ... | 07·4 | -2 | NW'N | 3 | b,p | 37 | 92 | 34 | 8 | 3 | 6 | - | Tr | 1 | 2500 | 1 | 3 |
| Wick ... | 09·8 | -4 | NNE | 5 | c-bc | 42 | 85 | 37 | 8 | 8 | - | - | 7-8 | 7-8 | 2000 | 1 | * |
| Sumburgh .. | 08·9 | 0 | N | 4 | $pr_0$ | 40 | 92 | 38 | 7 | 2 | 6 | - | 9 | 9+ | 2000 | 1 | 3 |
| Blacksod Point | 10·4 | +2 | NE | 1 | c-bc/r | 41 | 92 | 39 | 8 | 4 | - | - | 7-8 | 7-8 | 1500 | 1 | 2 |
| Malin Head ... | 09·0 | 0 | E'N | 3 | b-bc | 44 | 75 | 37 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| Aldergrove ... | 09·1 | -2 | - | 0 | b-bc | 32 | 92 | 29 | 8 | 8 | - | - | 2-3 | 2-3 | 3000 | 1 | * |
| Birr Castle ... | 08·3 | +2 | N | 1 | c-bc | 37 | 92 | 35 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Valentia Obsy. | 08·3 | -2 | NE | 2 | b | 37 | 75 | 30 | 9 | - | - | 1 | 0 | Tr | - | 1 | 2 |
| Roches Point | 06·4 | 0 | N'E | 3 | b | 38 | 85 | 34 | 8 | 5 | - | - | 1 | 1 | 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 30th hrs. (38) |
|---|---|---|---|---|---|---|
| London (Kew) | 56 | 46 | 42 | - | 3 | 1·0 |
| Croydon ... | 61 | 47 | 45 | 0·1 | 3 | 3·0 |
| S. Farnborough | 56 | 45 | 43 | - | 0·3 | 1·8 |
| Boscombe Down | 49 | 42 | 39 | 0·3 | Tr | 0·0 |
| Thorney Island | 63 | 47 | 45 | - | 0·1 | * |
| Lympne .. | 57 | 47 | 46 | - | 11 | 1·1 |
| Manston ... | 59 | 48 | 47 | 0·1 | 22 | * |
| Shoeburyness ... | 60 | 46 | 44 | Tr | 15 | 2·5 |
| Felixstowe ... | 59 | 47 | 46 | 0·1 | 14 | 1·4 |
| Gorleston ... | 56 | 48 | 48 | 0·6 | 25 | 0·2 |
| Mildenhall ... | 54 | 45 | 44 | Tr | 0·4 | 0·0 |
| Cranwell ... | 48 | 41 | 39 | 7 | 2 | 0·0 |
| Birmingham ... | 45 | 39 | 36 | 3 | 0·5 | * |
| Upper Heyford | 47 | 39 | 36 | 4 | 0·1 | * |
| Ross-on-Wye | 47 | 41 | 38 | 0·4 | 0·2 | 0·0 |
| Hartland Point | 50 | 46 | 45 | - | - | 0·8 |
| Bristol ... | 47 | 42 | 42 | 0·1 | 2 | 0·0 |
| Portland Bill ... | 53 | 46 | * | - | - | * |
| Plymouth ... | 53 | 40 | 35 | - | - | 0·4 |
| The Lizard ... | 52 | 45 | * | - | - | 0·5 |
| Scilly (St. Mary's) | 51 | 49 | * | Tr | 2 | 0·4 |
| Guernsey ... | | | | | | |
| Pembroke ... | 50 | 42 | * | - | - | 0·0 |
| Holyhead (Valley) | 49 | 43 | 41 | 0·3 | 0·3 | * |
| Chester (Sealand) | 50 | 42 | 38 | - | - | 0·0 |
| Manchester ... | 49 | 40 | 37 | Tr | - | * |
| Spurn Head ... | 49 | 44 | * | S | Tr | 0·0 |
| Catterick ... | 48 | 41 | 36 | 0·1 | 6 | 1·2 |
| Tynemouth ... | 49 | 45 | 42 | 0·3 | 1 | * |
| St. Abbs Head | 46 | 43 | * | 0·3 | - | * |
| Leuchars ... | 49 | 32 | 22 | Tr | - | 6·4 |
| Renfrew (Abbots I.) | 48 | 27 | 22 | - | - | 4·8 |
| Eskdalemuir ... | 46 | 33 | 29 | Tr | - | 6·3 |
| Point of Ayre... | 49 | 42 | * | - | - | 4·4 |
| Tiree ... ... | 48 | 37 | * | Tr | Tr | * |
| Stornoway ... | 44 | 35 | * | 2 | 2 | 4·7 |
| Dalwhinnie ... | 42 | 28 | 21 | - | - | 5·4 |
| Aberdeen † ... | 46 | 35 | 32 | 0·2 | Tr | 5·3 |
| Wick ... | 44 | 38 | * | 1 | 0·5 | * |
| Sumburgh .. | 45 | 38 | 34 | 2 | 4 | 2·5 |
| Blacksod Point | 50 | 39 | * | Tr | 2 | * |
| Malin Head ... | 48 | 43 | | - | 0·1 | 3·1 |
| Aldergrove ... | 48 | 31 | 24 | - | Tr | 8·3 |
| Birr Castle ... | 49 | 36 | 32 | - | - | 5·4 |
| Valentia Obsy. | 49 | 36 | 27 | - | Tr | 7·5 |
| Roches Point | 50 | 37 | * | - | - | * |

## Abridged observations of additional stations in the AVIATION WEATHER CODE

| 13h. G.M.T. 30th October | IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 31st October | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | 36 | 25844 | 63685 | 36 | 88755 | 63506 | 30 | 0853 | 01683 | 30 | 81745 | 01685 | | | |
| 115 | | | | | | | 87 | 10644 | 04486 | 87 | 80844 | 02486 | | | |
| 203 | | | | 8- | 88928 | 04688 | 8- | 80847 | 04487 | | | | | | |
| 206 | 8- | 01863 | 31313 | 8- | 25857 | 02467 | 40 | 01964 | 32314 | 80 | 01984 | 32314 | | | |
| 210 | 26 | 01855 | 65455 | 26 | 02853 | 65513 | 26 | 01853 | 32413 | 26 | 25854 | 32284 | | | |
| 220 | 20 | 01853 | 02404 | 40 | 01753 | 04103 | | | | 80 | 25846 | 02286 | | | |
| 230 | 1- | 01964 | 32314 | | | | 40 | 01961 | 02101 | 10 | 01962 | 06102 | | | |
| 245 | 26 | 10964 | 32484 | 40 | 01951 | 31301 | 40 | 01961 | 30307 | 84 | 01952 | 30302 | | | |
| 260 | 54 | 01753 | 04214 | 5- | 17663 | 02223 | 04 | 01790 | 04202 | 56 | 05664 | 28214 | | | |
| 278 | 76 | 01944 | 32154 | 5- | 02857 | 03427 | 53 | 04661 | 01313 | 13 | 01851 | 30302 | | | |
| 279 | 10 | 01862 | 02413 | 53 | 01863 | 03323 | 50 | 01763 | 32213 | 50 | 03664 | 30224 | | | |
| 285 | 27 | 81745 | 32487 | | | | | | | 6- | 63628 | 30468 | | | |
| 288 | 52 | 22645 | 32568 | 47 | 05563 | 32483 | 57 | 05565 | 31326 | 83 | 0554 | 30425 | | | |
| 575 | 80 | 01854 | 02314 | 40 | 01852 | 02212 | 50 | 01852 | 04112 | 50 | 01853 | 08103 | | | |
| 301 | 53 | 02863 | 04426 | 31 | 05675 | 04327 | 53 | 02873 | 02428 | 53 | 02862 | 04327 | | | |
| 321 | 62 | 02734 | 32368 | 52 | 02754 | 01368 | 57 | 05664 | 31428 | 53 | 05654 | 31365 | | | |
| 290 | 8- | 02748 | 02528 | 8- | 02528 | * | 5- | 01754 | 32514 | 80 | 22745 | 32665 | | | |
| 292 | 51 | 02756 | 01357 | 52 | 02866 | 32257 | 53 | 02752 | 30326 | 53 | 05662 | 29324 | | | |
| 310 | -- | 02628 | 32558 | | | | | | | -- | 01635 | 06215 | | | |
| 614 | 5- | 21547 | 02368 | 52 | 61536 | 02368 | 57 | 05334 | 35468 | 07 | 05530 | 32257 | | | |

| 13h. G.M.T. 30th October | IIIC$_L$C$_M$ | wwVhN$_h$ | DDFWN | 18h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 01h. G.M.T. 31st October | C$_L$C$_M$ | wwVhN$_h$ | DDFWN | 07h. G.M.T. | C$_L$C$_M$ | wwVhN$_h$ | DDFWN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 83 | 02854 | 02325 | 83 | 02764 | 02326 | 37 | 02764 | 02428 | 57 | 01765 | 02268 | | | |
| 334 | -- | 03647 | 12428 | -- | 03647 | 12328 | | | | | | | | | |
| 340 | 62 | 05645 | 04268 | 52 | 0554 | 01368 | 5- | 05557 | 31228 | 03 | 05690 | 33227 | | | |
| 136 | 5+ | 52628 | 04358 | 5- | 51628 | 01358 | 5- | 61747 | 05468 | 5- | 22848 | 32468 | | | |
| 336 | 51 | 05545 | 04328 | 51 | 05545 | 04228 | | | | 57 | 05644 | 04328 | | | |
| 350 | 02 | 52428 | 04368 | 02 | 92418 | 04458 | 32 | 00436 | 02458 | 57 | 05653 | 25226 | | | |
| 368 | | | | 52 | 05545 | 02428 | 5- | 05550 | 04458 | 57 | 05665 | 10317 | | | |
| 379 | 02 | 52428 | 02458 | 52 | 51627 | 02458 | 5- | 51528 | 04458 | 07 | 05696 | 28428 | | | |
| 390 | 57 | 05573 | 04247 | 5- | 67336 | 02358 | 5- | 67326 | 04460 | 53 | 05655 | 32366 | | | |
| 382 | 52 | 05536 | 05228 | 5- | 51428 | 04328 | 5- | 05648 | 04428 | 53 | 05664 | 00025 | | | |
| 438 | 87 | 02745 | 08128 | 57 | 02744 | 01212 | 52 | 52537 | 32458 | 87 | 02736 | 32428 | | | |
| 430 | 27 | 02854 | 00027 | 07 | 08490 | 02429 | 5- | 62538 | 02 60 | 57 | 05653 | 02328 | | | |
| 409 | 53 | 02745 | 03425 | 5- | 05637 | 04427 | 51 | 05638 | 04325 | 52 | 05636 | 05328 | | | |

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

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

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## LONDON OBSERVATIONS

For the 24 hours ending morning of 31st October
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 * .. ... | ff bcm$_0$ | cm$_0$m | rr$_0$ircm$_0$ | Kew 24 hours ended 7h. Max. Time 0·7 7hrs. 30th |
| Croydon ... | bcfbcEm$_0$ | ctdf | cmirchr | |
| Greenwich ... | bcFe | Fcm$_0$d$_0$ | d$_0$Krcm$_0$ | |
| Camden Square | o | c | * | |
| *Kensington ... | cmofbc | cm | * | Min. Time <0·1 0–9hrs. 30th |
| Hampstead ... | ofbc | c | orpc | |

| 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 ... ... | 56 | 46 | 42 | - | 3 | 1·0 | * | * |
| Croydon ... | 61 | 47 | 45 | 0·1 | 3 | 3·0 | * | * |
| Greenwich ... | 50 | 45 | 43 | Tr | 2·7 | 2·1 | 88 | 81 |
| Westminster ... | 55 | 46 | 45 | 3·2 | | * | 92 | 85 |
| Regents Park ... | 54 | 45 | 42 | - | 3·0 | * | 89 | 77 |
| Camden Square ... | 53 | 46 | 44 | | 5·6 | * | * | 88 |
| Kensington ... | 55 | 44 | 40 | Tr | 2·2 | * | 91 | 81 |
| Hampstead ... | 54 | 42 | 40 | - | 2·0 | * | * | 87 |