M.O. Form 2373

SECRET

THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1943

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

INTRODUCTION

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

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

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

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

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

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

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

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

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

0	...	0.	7	... More than 9 but with openings.
1	...	Trace.		
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.		

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.		
2	... ,, flooded.	8	... ,, covered with snow, less than 6 ins. deep but ground frozen.
3	... ,, frozen hard and dry.		
4	... ,, partly covered with snow or hail.	9	... ,, covered with snow greater than 6 ins. deep.
5	... ,, covered with ice or glazed frost.	–	... Fresh snow has fallen on the mountains.
6	... ,, covered with thawing snow.		

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

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

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

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

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

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

Cloud Form Abbreviations

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

Cloud Amount – Columns 13, 14, 28, 29

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

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

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

Code for State of Sea (S)—Column 32

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

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

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

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

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

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

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

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

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.

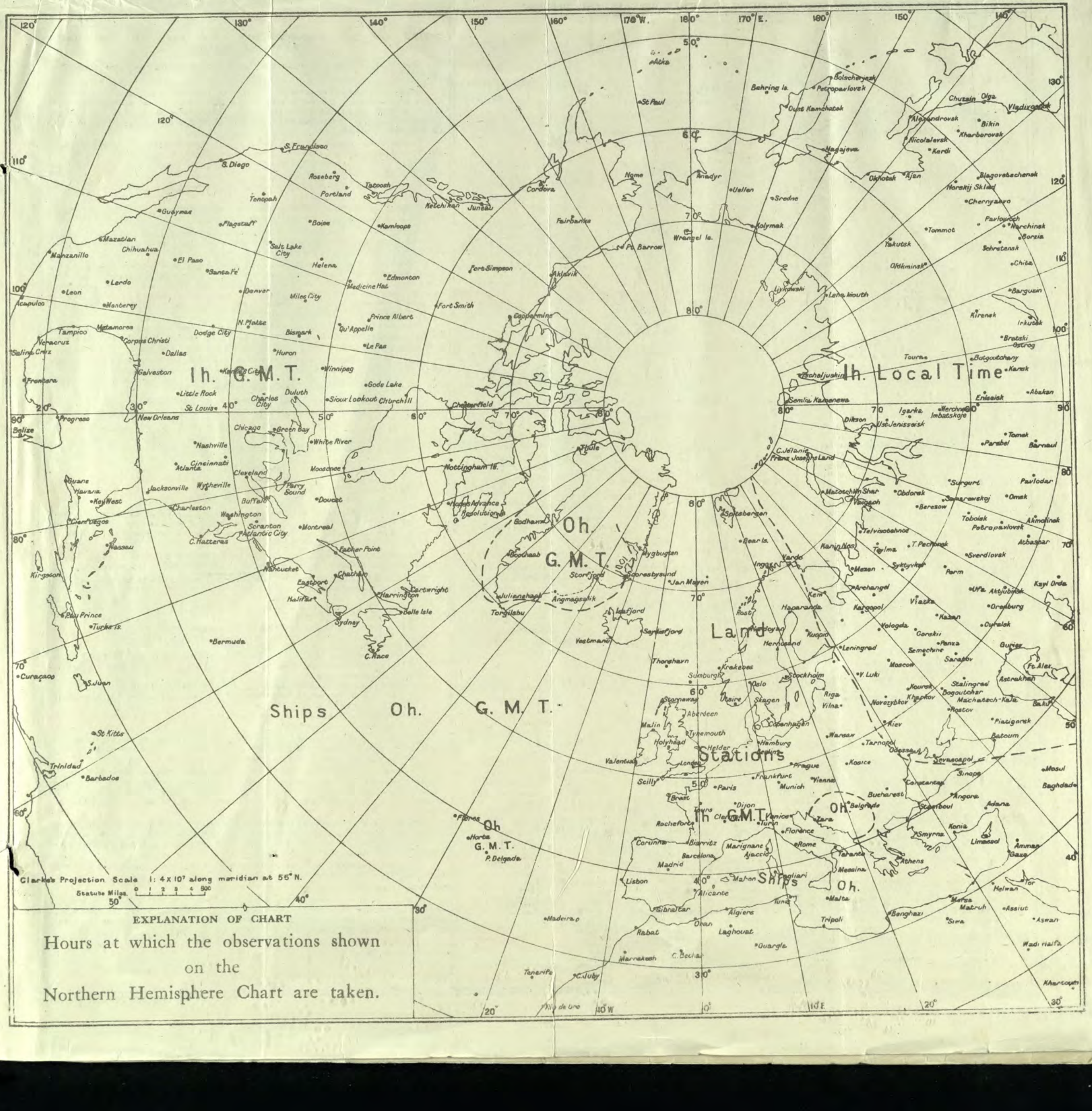
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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
Oh. G.M.T.
Ships Oh. G.M.T.
Land Stations
Ships Oh.
Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.
Statute Miles. 0 1 2 3 4 800
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.

Scale 1:5,000,000.

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.

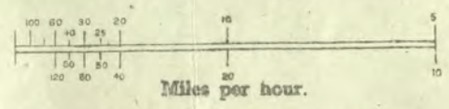
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the 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 ,, ,, $1 : 5 \times 10^6$,,



Miles per hour.

This scale applies under the following conditions:—

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

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

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

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

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

$x = f - .444\ (t - t')$ 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 3 is indicated by two whole feathers and one half feather.

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

N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorology," (3rd Edition, 1939), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free.

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

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

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DUPLICATE SECRET

THE DAILY WEATHER REPORT

MONTHLY SUPPLEMENT,

OF THE METEOROLOGICAL OFFICE, LONDON — DECEMBER 1943 No. 324.

Generally rather cold; some fog.

During the first three days a depression moved S.E. from Iceland to the Hebrides and then South of Spain, and an associated occlusion brought rain to all districts. An anticyclone spread in from the Atlantic and persisted till 7th though weak fronts caused occasional rain in the North. There was some fog in England.

On the 8th a depression moved south over Ireland with widespread rain and some fog. For the next week an anticyclone centred over South Scandinavia dominated the British Isles with ~~low~~ temperatures generally, the lowest reported being 16°F at Eskdalemuir on the 13th, the lowest recorded temperature of the year. A cold N.E. current brought slight snow to a large area on the 11th, including London. Fog was frequent up to 17th.

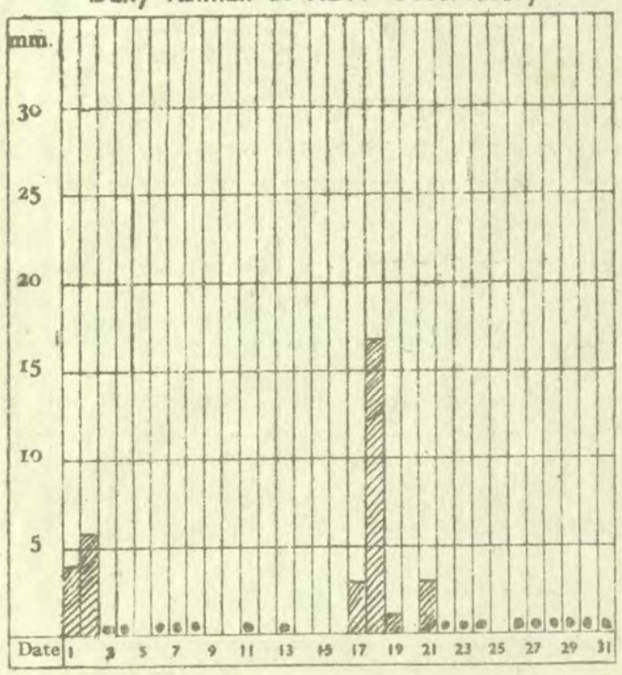
After the 17th a series of deep depressions moved NE on tracks to the N.W. of the British Isles with rain along associated fronts, and higher temperatures generally. Gales were reported from the Hebrides and Shetlands near the centres of the Atlantic depressions. Thunder was reported by Abbotsinch and Valentia on 20th-21st. Some heavy rain accompanied the fronts, and the heaviest falls of the month occurred during this period, over 20 mms being reported on the 18th from Croydon Thorney Is., Lympne, Falmouth and Stornoway.

From the 22nd - 24th there were colder N.W. winds with slight snow in the north of Scotland, and night frosts in many districts. An anticyclone developed near our SW coasts on the 24th and from the 25th to 29th weather was of a mild cloudy type with some fog in the South. Depressions far to northward affected northern districts and winds reached gale force in the North of Scotland and the Hebrides. The highest temperatures of the month were recorded during this period, notably 56°F at Aberdeen on the 26th. On 30th a brief Arctic outbreak caused snow showers in North Scotland and lower temperatures generally, but milder air spread in from the N.W. next day.

Average temperature for the month was slightly below normal. Maximum temperatures were highest in the N.E. of Scotland, and minimum temperatures were generally lowest in the same area.

Rainfall for the month was well below average, especially in the North and West.

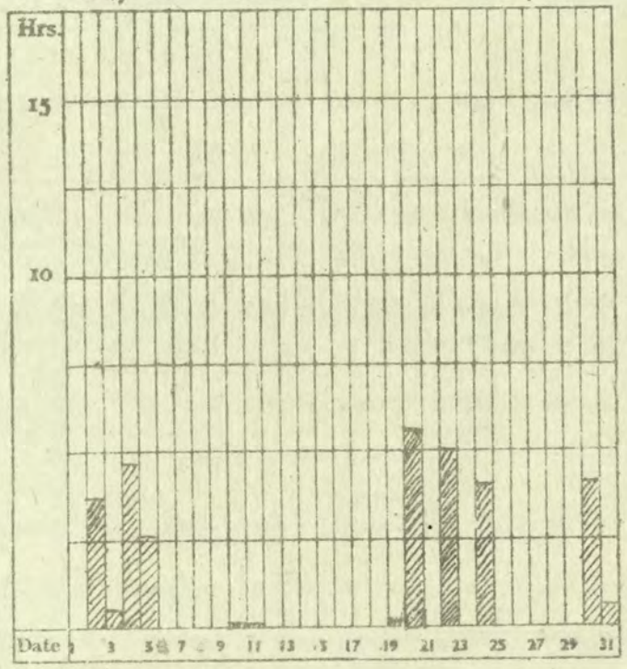
Daily Rainfall at KEW Observatory.



⊛ = less than 0·5 mm.

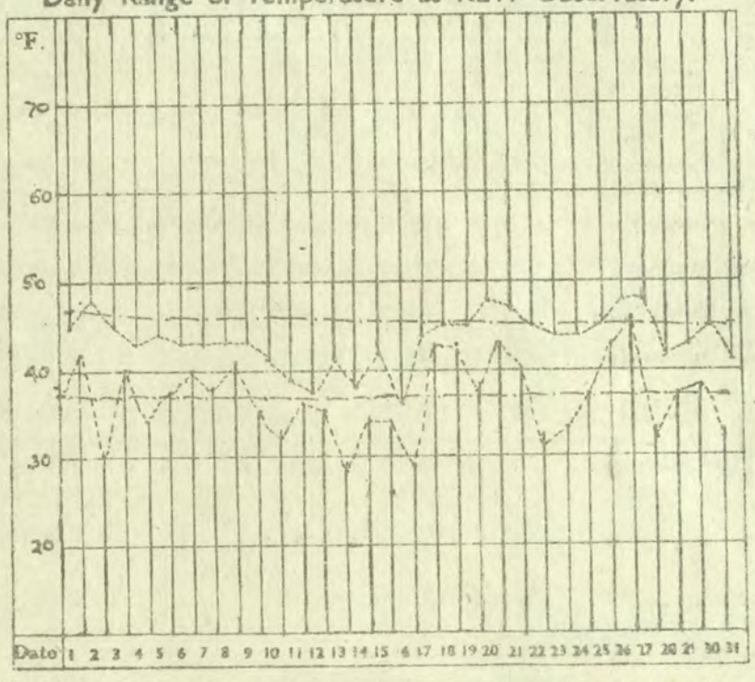
RAINFALL. Total for Month. 35 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 33 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	1021·6	+7·9	40·5	−0·9
Aberdeen	1019·2	+12·3	39·5	−0·6
Valentia	1021·3	+10·6	44·5	−1·6

* Pressure—The means is for the 24 hours. It is derived from values at 7 h. and 18 h. daily combined.
Temperature—means of Max. and Min.

WIND FREQUENCIES at 7 hr.

Kew	Aberdeen	Valentia
4	2	1

Forces 1–3 ——— ; forces 4–7 ═══ ; force 8 or above ▬▬ . Scale : —— 10 —— 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 ...	5,808
Aberdeen ...	5,220
Lerwick ...	14,699
Valentia ...	—

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District	Stations	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 32 or below	33-41	42-50	51-59	60-68	Average Maximum.	Minimum. 23 or below	24-32	33-41	42-50	51-59	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ... (Kew Obsy).	0	6	22	0	0	44·8	0	6	17	6	0	38·0	48	9,20 26,27	36	16	45	27	28	14	16	5	25	0	2	27	1	1	22	0	0	1	5	10	0	0	0	5	7	1
	Croydon ...	0	7	24	0	0	44·4	0	10	16	5	0	37·5	50	20	34	16	45	18	28	11	11	8	19	0	4	22	1	7	16	0	1	3	10	9	1	0	1	7	6	2
	Thorney Island	0	6	24	1	0	46·6	0	7	18	6	0	39·6	51	20	36	16	45	27	27	14	15	4	23	0	4	21	0	3	20	1	0	0	0	4	3	0	0	1	7	8
	Lympne ...	0	14	16	1	0	43·4	0	9	20	2	0	36·3	51	19	33	16	43	19,27	28	14,17	13	11	15	1	8	15	1	6	15	2	1	2	3	8	1	0	2	0	12	8
2	Shoeburyness...	0	7	24	0	0	44·7	0	8	20	3	0	36·1	49	20	36	16	44	19	27	14	15	0	23	0	2	18	1	4	17	1	0	1	5	7	3	0	0	3	5	7
	Gorleston ...	0	5	26	0	0	44·1	0	3	20	8	0	37·6	49	27	38	12	45	2	32	3,24 25	7	6	23	0	7	19	1	8	20	0	0	1	3	2	12	0	0	2	0	14
	Cranwell ...	1	11	19	0	0	42·7	0	9	21	1	0	35·2	49	26	27	14	46	27	24	14	13	4	18	0	6	16	0	5	19	0	0	1	6	5	0	0	2	4	5	4
3	Birmingham ... (Edgbaston)	1	13	16	1	0	42·6	0	7	20	4	0	36·3	52	26	30	14	46	27	26	15	13	13	11	0	9	17	0	9	15	1	1	4	5	9	5	0	3	3	8	4
4	Ross-on-Wye...	1	9	19	2	0	44·7	1	8	18	4	0	37·3	54	26	30	14	45	26	23	14	16	8	22	0	12	17	0	8	22	0	0	2	4	4	11	0	0	6	1	11
5	The Lizard ...	0	2	23	6	0	*	0	1	12	17	0	*	53	18	40	12	48	26	32	13	*	0	30	0	2	29	0	1	30	0	0	0	0	5	10	0	0	0	0	14
7	Holyhead ... (Valley)	0	1	28	2	0	46·9	0	8	11	12	0	42·5	52	1	37	16	47	27	25	11,14 16	10	0	24	2	2	22	0	0	25	0	0	0	0	7	17	0	0	1	0	21
8	Chester ... (Sealand)	1	19	17	4	0	48·2	0	12	12	7	0	37·1	56	26	32	15	48	25	25	11,13	16	3	23	0	3	22	2	3	23	0	1	0	10	7	7	1	0	7	4	13
10	Tynemouth ...	0	5	23	3	0	44·4	0	3	17	11	0	38·4	55	26	32	17	47	27	27	14	4	0	27	0	1	25	0	0	25	0	0	0	0	6	13	0	0	1	7	8
11	Leuchars ...	0	10	19	2	0	43·5	0	9	19	3	0	35·6	53	26	34	13,15	47	27,28	25	13	16	0	26	1	1	25	2	2	22	1	0	0	3	3	10	0	1	0	5	5
12	Renfrew ...	2	9	17	3	0	43·6	2	4	17	8	0	35·8	53	26,26	28	11	49	28	20	12	21	1	27	0	3	26	0	4	24	1	0	1	8	6	6	0	1	7	3	8
	Esadaiemuir ...	1	17	13	0	0	40·7	3	13	12	3	0	33·5	49	26	32	13	43	27	16	13	19	11	17	0	9	18	0	8	20	0	0	0	1	4	16	0	1	1	1	18
13E	Stornoway ...	0	1	28	2	0	44·9	0	1	22	8	0	38·5	54	25	39	30	45	25,27	31	9	*	1	28	0	3	28	0	2	29	0	0	0	0	0	26	0	0	0	0	28
15	Aberdeen ...	0	7	21	3	0	43·4	1	4	19	7	0	36·9	56	26	36	30	48	27	23	14	12	1	24	1	3	25	1	2	23	1	0	0	5	8	15	0	0	3	7	12
18	Aldergrove ...	0	5	26	0	0	43·9	0	6	18	7	0	36·7	50	25,26, 27	37	19	45	27	28	16	12	5	24	0	11	20	0	6	25	0	0	2	1	0	20	0	1	1	2	16
19	Birr Castle ...	0	8	21	2	0	45·8	0	7	18	4	1	37·8	53	26	38	5	51	26	28	6,12, 16,23	9	3	21	0	4	25	0	3	25	0	0	0	2	0	29	0	0	1	0	30
20	Valentia ... (Cahirciveen)	0	1	23	7	0	49·1	0	3	10	17	1	43·0	53	18	41	15	51	26	30	16	6	0	29	0	1	26	2	3	27	0	0	0	0	0	26	0	0	0	0	31

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	1740	42·0	36·3	51	37·7	60	38·7	26
850	4960	34·2	31·2	51	31·9	60	32·0	26
750	7980	28·3	23·2	51	25·2	60	23·8	26
630	11620	14·2	12·7	51	14·4	60	12·9	26
550	16750	0·3	−0·5	51	−0·2	60	−1·6	26

† 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. 304).

UPPER WINDS.

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

Station. Height. Metres.	Lympne. *No. of Obs.	0 to 15	26 to 50	51 to 75	76 to 100	Above 100	Exeter. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead (Valley). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Prestwick. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground	7	2	4	1	0	0	42	6	23	12	1	0	7	4	3	0	0	0	43	13	24	5	1	0	500 above ground.
1000 above M.S.L.	7	2	1	3	0	0	33	2	14	15	0	0	7	3	3	1	0	0	21	7	9	4	0	1	1000 above M.S.L.
2000 " "	6	1	3	0	0	0	12	0	4	6	0	0	2	2	0	0	0	0	5	1	3	1	0	0	2000 " "
3000 " "	2	1	0	0	0	0	5	0	3	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3000 " "
4000 " "	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4000 " "

* Winds of 0—3 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 DECEMBER 1943.

District.	Stations.	SUNSHINE. Number of Days with Duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month. First year of record.	Highest.	Year.	Lowest.	Year.
1	London ... (Kew Obsy).	18	7	6	0	0	5·7	20	1416	−53	33	−4	1880	72	1886	0	1890
	Croydon ...	16	10	5	0	0	5·9	20	1611	+86	35	−3	1922	58	1929 1936	19	1930 1934
	Thorney Island **	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	14	8	7	2	0	6·6	5	1860	+95	59	+5	1921	85	1926	19	1934
2	Shoeburyness ...	12	11	6	2	0	6·5	5	1737	+21	52	+3	1919	77	1936	20	1934
	Gorleston ...	13	10	7	1	0	6·5	4	1756	+113	52	+11	1908	67	1936	20	1934
	Cranwell ...	16	9	6	0	0	5·5	28	1668	+130	43	−4	1921	62	1929	30	1934
3	Birmingham ... (Edgbaston)	18	8	5	0	0	5·4	22	1431	+127	29	−6	1887	90	1891	5	1890
4	Ross-on-Wye ...	13	11	6	1	0	6·6	4	1866	+71	43	−5	1915	73	1929	30	1915 1927
5	Falmouth ... (Observatory)	15	6	8	2	0	6·9	11	1639	−71	55	+2	1881	82	1886	19	1890
7	Holyhead (Valley)	*	*	*	*	*	*	*	*		*		1914	71	1916	15	1931
8	Chester ... (Sealand)	15	11	5	0	0	5·3	2	1675	+299	36	−5	1923	76	1929	23	1927
10	Tynemouth ...	*	*	*	*	*	*	*	*	*		*	1935	*		*	*
11	Leuchars ...	16	10	5	0	0	6·0	23	1562	+92	33	−11	1922	66	1929	16	1934
12	Renfrew ...	19	9	3	0	0	4·9	23	1800	+107	18	−9	1921	46	1938	9	1939
	Eskdalemuir ...	17	8	6	0	0	5·8	12	1209	+8	38	+6	1910	60	1935	3	1912
13B	Stornoway ...	16	8	7	0	0	5·8	10	1049	−166	40	+18	1881	54	1935	6	1884
15	Aberdeen ...	15	13	3	0	0	5·3	23	1344	+15	27	−10	1881	68	1891	7	1902
18	Aldergrove ...	18	10	3	0	0	5·8	11	1327	+1	23	−18	1927	70	1938	19	1941
19	Birr Castle ...	7	20	4	0	0	5·2	11	1214	−92	33	−10	1881	68	1881	22	1884 1939
20	Valentia ... (Cahirciveen)	6	19	5	1	0	6·3	7	1201	−167	50	+11	1880	76	1938	14	1931

District.	Stations.	RAINFALL. ‡Number of days with amount. 0, trace or 0·1 mm.	0·2—1·0 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).	21	4	4	1	1	0	18	18	527	−79	35	−23	1856	162	1914	6	1926	0	1
	Croydon ...	19	4	5	2	1	0	20·1	18	587	−82	52	−17	1921	174	1929	8	1926	0	1
	Thorney Island **	18	4	5	3	1	0	23·8	18	621	−72	63	−13	1881	224	1934	10	1926	0	1
	Lympne ...	23	1	2	4	1	0	23·6	18	585	−139	64	−18	1920	181	1929	14	1932	0	1
2	Shoeburyness ...	24	0	5	2	0	0	6·8	19	476	−27	25	−22	1920	94	1937	5	1932	1	1
	Gorleston ...	19	5	3	4	0	0	8·2	2.	507	−115	44	−18	1871	151	1914	12	1932	2	0
	Cranwell ...	21	5	4	1	0	0	7·9	18	470	−120	18	−38	1917	105	1938	9	1933	0	0
3	Birmingham ... (Edgbaston)	21	3	5	2	0	0	9·2	18	609	−65	35	−33	1893	155	1914	11	1926	0	1
4	Ross-on-Wye ...	21	4	3	3	0	0	12·2	8.	674	−43	41	−35	1859	196	1929	11	1926	0	1
5	Falmouth ... (Observatory)	14	6	7	3	1	0	21·3	18	935	−172	71	−88	1871	280	1915	21	1926	0	0
7	Holyhead (Valley)	21	2	3	5	0	0	13·9	17	860	−27	62	−44	1871	241	1934	21	1926	0	0
8	Chester ... (Sealand)	17	8	4	2	0	0	10·0	21.	782	+144	29	−34	1922	114	1929	13	1933	0	0
10	Tynemouth ...	20	4	6	1	D	D	11·0	7	581	−40	32	−23	1915	136	1937	7	1941	0	0
11	Leuchars ...	18	6	6	1	0	0	6·4	20	588	−65	25	−38	1922	95	1922	8	1926	0	1
12	Renfrew ...	14	8	4	5	0	0	10·6	19	1160	+221	52	−61	1921	230	1929	15	1933	1	1
	Eskdalemuir ...	12	6	8	5	0	0	12·6	21	1702	+273	69	−109	1910	339	1932	37	1933	0	1
13B	Stornoway ...	14	4	8	4	1	0	22·7	18	1273	+72	72	−79	1870	378	1898	30	1927	0	1
15	Aberdeen ...	18	7	5	1	0	0	6·5	18	666	−82	25	−67	1871	227	1876	20	1905	0	2
18	Aldergrove ...	13	6	7	5	0	0	4·8	18	890	+52	64	−23	1926	145	1929	28	1926	0	1
19	Birr Castle ...	16	5	5	5	0	0	9·0	7	818	−9	55	−29	1862	165	1929	24	1885	0	0
20	Valentia ... (Cahirciveen)	12	6	6	6	1	0	16·0	18th	1496	+82	82	−87	1866	345	1934	37	1926	1	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	1	6	16	5	2	1	0	0	0
Ross-on-Wye ...	2	2	6	14	6	1	0	0	0	0
Falmouth (Obsy.)	3	5	13	9	0	1	0	0	0	0
Renfrew ...	4	3	7	14	3	0	0	0	0	0
Eskdalemuir ...	2	0	12	12	4	1	0	0	0	0
Aberdeen ...	0	0	6	9	13	3	0	0	0	0
Valentia ...	0	1	8	12	10	0	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each Type was recorded

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)..	0	31	0	0	0	0	0	0	0	0
Ross-on-Wye ...	0	31	0	0	0	0	0	0	0	0
Renfrew ...	0	26	0	5	0	0	0	0	0	0
Eskdalemuir ...	0	23	0	6	0	1	0	0	1	0
Aberdeen ...	0	28	0	2	1	0	0	0	0	0
Valentia ...	2	29	0	0	0	0	0	0	0	0

CODE for State of Ground.

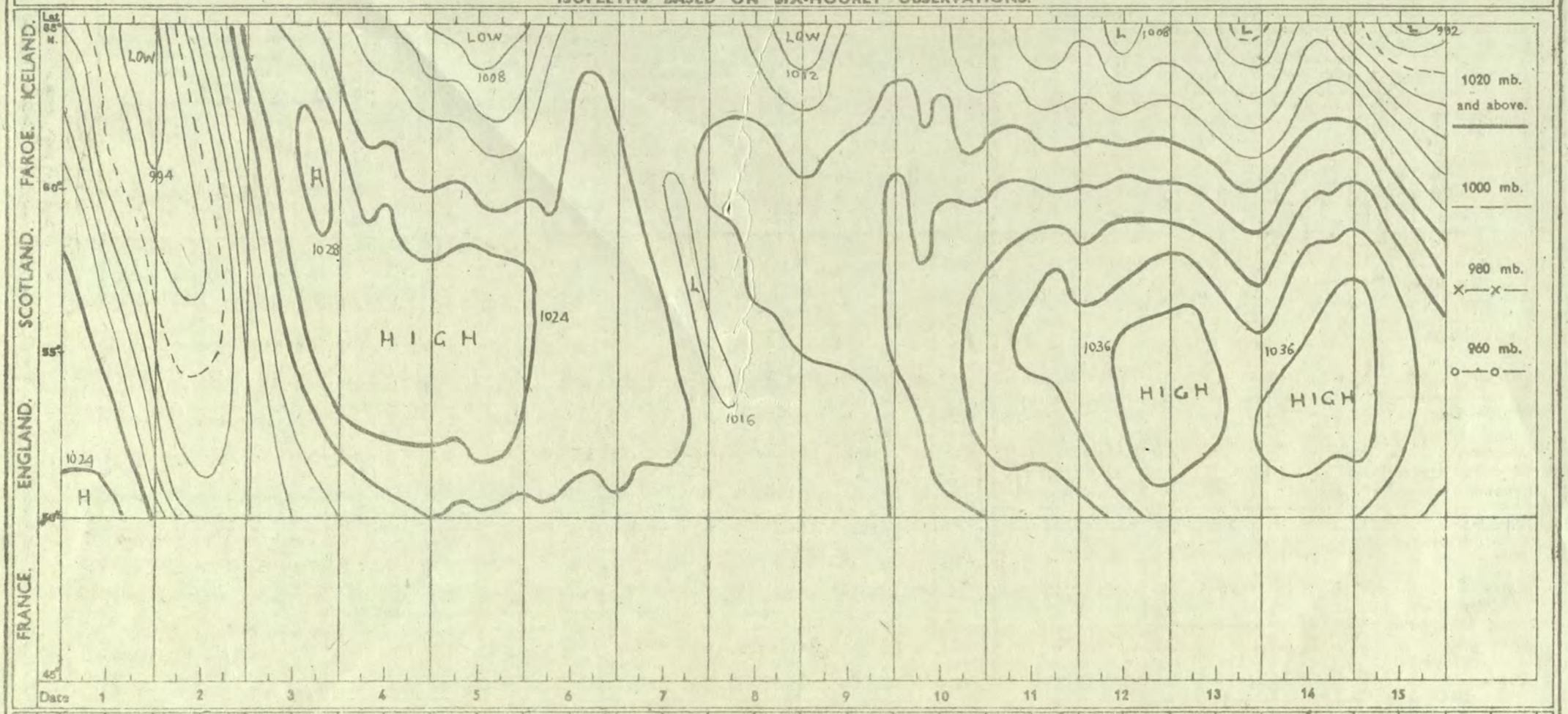
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6 ins.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

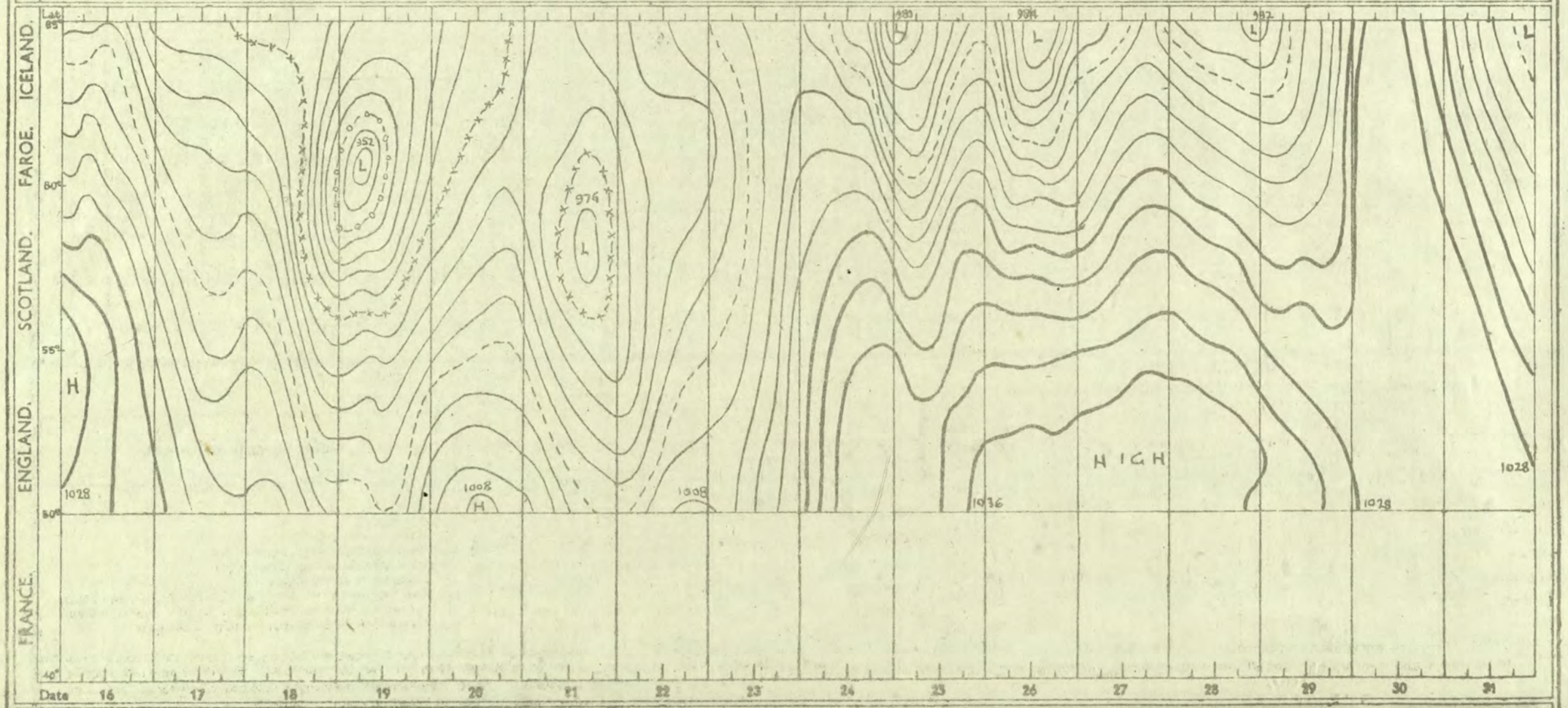
** The extremes and average of rainfall are supplemented by records from neighbouring stations

‡ 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 ..... DECEMBER, ... 1943.

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.





* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h. and 18h. are plotted consecutively and joined to show the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 19° W., in the north; at Lat. 44½° N., Long. 4° E., in the south.

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

Ps. 505/4506. Wt. 8089. D.H.&S. 6p. 948/6. 335. 1/44

SECRET

Wednesday 1st December 1943

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

No. 22252.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14·3	+22	NW	4	z_o	47	56	34	6	8	–	–	9+	9+	1500
	Croydon ...	14·3	+22	WNW	5	z_o	46	65	36	6	5	–	–	9+	9+	2500
	S. Farnborough	15·6	+26	NW'N	5	c/pr	46	65	35	8	8	6	3	7-8	9+	2500
	Boscombe Down	17·7	+26	NW'N	5	c-bc/pr	47	65	37	8	2	–	–	7-8	7-8	2500
	Thorney Island	16·1	+20	NW	6	c	48	55	36	8	8	–	–	7-8	9	2500
	Lympne ...	12·6	+18	NW'N	4	z_o	43	75	37	6	2	–	–	7-8	10	1000
	Manston ...	11·1	+12	NW	5	pr	45	85	39	6	2	–	–	9+	9+	2000
2	Shoeburyness ...	12·2	+20	NW	4	z_o	46	65	35	6	5	–	–	9+	9+	2500
	Felixstowe ...	09·3	+16	NW	5	z_o	45	65	35	6	5	–	–	10	10	2500
	Gorleston ...	07·9	+32	NNW	5	c/pr	43	85	37	7	8	–	–	9	9	1000
	Mildenhall ...	11·8	+30	NW	5	c/pr	44	75	38	8	8	6	–	7-8	9+	2000
	Cranwell ...	13·4	+42	NW	6	c/d	44	75	36	7	5	–	–	9	9	1500
3	Birmingham ...	17·2	+44	NW	5	b-bc	45	75	36	6	1	–	–	2-3	2-3	1500
	Upper Heyford	15·6	+32	NW'N	6	c-bc/p	44	65	35	7	4	–	–	7-8	7-8	3000
4	Ross-on-Wye	18·4	+32	NW	5	b-bc	49	55	33	8	1	–	–	2-3	2-3	3000
5	Hartland Point	22·3	0	NW	5	bc	48	75	39	7	2	–	–	4-6	4-6	1500
	Bristol ...	18·8	+22	NW	5	b-bc	49	65	38	7	1	–	–	2-3	2-3	2500
	Portland Bill ...	18·0	+8	WNW	5	c-bc	49	92	45	8	1	–	–	7-8	7-8	4000
	Plymouth ...	22·4	+10	NW'N	6	bc	49	75	40	8	8	6	–	2-3	4-6	3000
	The Lizard ...	23·8	+10	WNW	6	bc	50	65	38	8	2	–	–	4-6	4-6	3000
	Scilly (St. Mary's)	25·4	+4	NNW	6	c	51	75	42	7	8	6	–	7-8	9+	1500
	Guernsey ...															
6	Pembroke ...	23·5	+10	NNW	6	c-bc	49	85	45	7	2	–	–	7-8	7-8	2500
7	Holyhead (Valley)	20·7	+24	NW	7	bc	50	75	42	8	8	–	1	2-3	4-6	2000
	Chester (Sealand)	17·7	+34	N'W	6	b-bc	48	75	39	8	2	–	–	2-3	2-3	3000
8	Manchester ...	17·0	+44	NW	4	z_o	45	75	36	6	4	6	–	2-3	4-6	2000
10	Spurn Head ...	10·3	+40	NNW	8	iR	44	92	42	7	8	–	–	7-8	7-8	1500
	Catterick (Sc.) ...	15·3	+44	NNW	5	c-bc	45	65	35	8	8	–	–	7-8	7-8	3000
	Tynemouth ...	14·2	+40	NNW	5	bc	45	75	35	7	2	–	–	4-6	4-6	2200
11	St. Abbs Head	14·7	+46	NW	4	bc	44	85	40	8	1	4	–	4-6	4-6	3500
	Leuchars ...	15·5	+32	WNW	4	b	45	65	35	9	1	4	–	1	1	3000
12	Renfrew (Abbotsl.)	17·9	+26	WNW	4	b-bc	46	75	37	8	2	–	1	2-3	2-3	2500
	Eskdalemuir ...	17·0	+42	NW'N	4	b	43	85	27	7	7	–	–	Tr	Tr	2100
	Point of Ayre ...	19·2	+38	N'E	6	b-bc	48	65	39	8	2	–	–	2-3	2-3	2000
13A	Tiree	20·4	+16	NW	4	pr	48	65	39	9	2	–	1	7-8	7-8	2000
13B	Stornoway ...	17·8	+14	NW	4	pr	45	75	39	8	8	–	5	7-8	7-8	1800
15	Dalwhinnie ...	17·5	+38	NW	2	bc	39	75	32	8	5	–	–	4-6	4-6	2500
	Aberdeen ...	14·2	+24	NW	4	b	43	85	37	8	3	–	–	1	1	2500
	Wick ...	14·0	+20	NW'W	4	b-bc/pr	43	85	39	8	9	–	3	2-3	2-3	1500
16	Sumburgh ...	11·2	+10	NW	4	bc	44	65	34	9	2	6	–	4-6	4-6	2000
17	Blacksod Point	26·5	+10	WNW	4	c	48	85	45	7	5	–	–	10	10	1500
18	Malin Head ...	21·4	+18	N'W	4	c-bc	48	75	40	8	8	–	2	4-6	7-8	1600
	Aldergrove ...	21·7	+26	W'N	3	bc	47	75	40	7	2	–	5	4-6	4-6	1500
19	Birr Castle ...	28·6	+18	NW	2	b-bc	49	65	37	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy.	29·4	+10	NW'N	4	c/pr	50	85	46	8	8	–	–	9	9	1500
	Roches Point	27·2	+16	NNW	4	bc	50	85	46	8	5	–	5	4-6	4-6	2500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·8	+34	NW'N	3	z_o	45	65	34	5	5	–	–	2-3	2-3	2500	1	*
	Croydon ...	20·6	+38	NNW	4	m	45	65	34	4	5	–	–	9+	9+	1500	1	*
	S. Farnborough	21·5	+20	NW'N	3	b	43	75	35	7	–	–	–	0	0	–	1	*
	Boscombe Down	22·4	+26	NW'N	4	b	42	75	34	7	–	–	1	0	Tr	–	0	*
	Thorney Island	21·4	+34	NW	3	b	44	65	35	7	–	–	–	0	0	–	1	*
	Lympne ...	18·5	+38	NNW	4	z_o	42	75	36	6	3	–	–	4-6	4-6	3500	1	*
	Manston ...	17·4	+38	NW'N	4	b-bc	43	85	39	7	–	6	3	0	2-3	–	1	*
2	Shoeburyness ...	18·3	+64	NW	3	z_o	43	75	35	5	–	–	–	0	0	–	1	*
	Felixstowe ...	16·6	+42	NW	4	z_o	43	85	40	6	5	–	–	2-3	2-3	1000	1	4
	Gorleston ...	14·6	+38	NNW	4	bcq	44	85	38	7	8	–	–	4-6	4-6	1500	1	4
	Mildenhall ...	18·4	+42	NW	4	c-bc	41	85	36	7	5	–	–	7-8	7-8	2700	1	*
	Cranwell ...	19·5	+32	NW	3	z_o	40	85	34	6	5	–	–	2-3	2-3	2000	0	*
3	Birmingham ...	21·7	+22	NW	3	z_o	42	85	38	6	–	–	–	0	0	–	1	*
	Upper Heyford	20·8	+30	NW	3	z_o	39	85	35	6	–	–	–	0	0	–	1	*
4	Ross-on-Wye	22·2	+16	NW'W	4	b	44	75	35	8	4	–	–	Tr	Tr	3000	1	*
5	Hartland Point	25·6	+20	NNW	4	c-bc	48	75	39	8	2	–	–	7-8	7-8	1500	1	5
	Bristol ...	23·4	+14	WNW	1	z_o	40	85	35	6	5	–	–	Tr	Tr	2500	1	*
	Portland Bill ...	23·0	+10	NW	4	bc	48	85	44	8	5	–	–	4-6	4-6	4000	1	5
	Plymouth ...	26·1	+20	NNW	3	b	46	75	40	7	–	4	–	0	1	–	1	3
	The Lizard ...	26·7	+6	WNW	5	c-bc	46	75	39	6	2	–	–	7-8	7-8	2000	0	4
	Scilly (St. Mary's)	28·3	+20	NNW	5	bc	49	75	40	8	8	6	–	4-6	4-6	1500	1	5
6	Pembroke ...	25·6	+6	NNE	4	c-bcq	48	75	41	7	8	–	–	7-8	7-8	1500	0	4
7	Holyhead (Valley)	23·9	+6	NW	4	c-bc	47	75	40	8	8	–	–	7-8	7-8	2500	0	5
	Chester (Sealand)	22·2	+26	N'W	3	b	43	85	39	8	2	–	–	1	1	2500	0	*
8	Manchester ...	21·6	+22	WNW	3	m	38	85	34	4	–	–	–	0	0	–	1	*
10	Spurn Head ...	16·8	+18	NW'N	5	bc	42	85	37	7	8	–	–	4-6	4-6	1500	1	4
	Catterick (Sc.) ...	19·1	+16	WNW	4	b	39	75	33	8	–	–	–	0	0	–	0	*
	Tynemouth ...	18·8	+14	NW	3	b-bc	41	85	35	7	2	–	–	2-3	2-3	2500	0	3
11	St. Abbs Head	16·7	+4	WNW	5	b-bc	43	75	32	7	4	–	–	2-3	2-3	4000	0	4
	Leuchars ...	18·4	+14	WNW	2	bc	40	85	35	8	5	4	–	2-3	4-6	3000	1	*
12	Renfrew (Abbotsl.)	20·5	+22	W	2	b-bc	41	75	34	7	8	4	–	2-3	2-3	2000	1	*
	Eskdalemuir ...	19·3	+10	NW'W	5	bc	37	75	30	8	5	4	–	2-3	4-6	2400	1	*
	Point of Ayre ...	21·7	+12	NNW	5	b	47	75	39	8	4	–	–	Tr	Tr	2400	0	4
13A	Tiree	21·5	+6	NW'W	3	c	47	75	31	8	5	1	7	4-6	10	2500	1	4
13B	Stornoway ...	19·3	+6	WNW	2	bc	39	92	37	8	8	–	–	4-6	4-6	2500	0	2
15	Dalwhinnie ...	19·0	+4	NW	2	b-bc	37	85	32	8	5	–	–	2-3	2-3	4000	4	*
	Aberdeen ...	16·5	+12	NW	3	b	41	85	35	8	3	–	–	Tr	Tr	2500	1	2
	Wick ...	15·9	+10	NW	4	c-bc/pr	42	97	41	7	9	–	–	7-8	7-8	1000	1	*
16	Sumburgh ...	14·0	+14	NW'N	4	b	41	85	36	8	4	–	–	Tr	Tr	2500	1	2
17	Blacksod Point	27·1	+6	WNW	4	c/d	51	92	49	7	6	–	–	10	10	1500	1	3
18	Malin Head ...	23·3	+14	NW'N	3	c	48	75	40	8	8	–	–	9+	9+	1500	2	4
	Aldergrove ...	23·6	+10	WN	2	c	44	85	40	8	8	–	–	9	9	1500	1	*
19	Birr Castle ...	26·6	+8	WNW	1	c	46	92	44	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	30·8	+6	NWN	4	c	51	85	46	8	8	–	–	9	9	1800	1	3
	Roches Point	28·7	+14	N'W	2	b-bc	49	92	47	8	5	–	–	2-3	2-3	2500	1	3

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	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)	c_T bcc	cbc b_{z_o}	b mow	bbcmow
	Croydon ...	cz_o i_{T_o} cz_o	zz_o cz	czbzbmo	bmoc, w
	S. Farnborough	bccpr$_o$c	cpr$_o$ebcb	bmox	bbcmox
	Boscombe Down	bbccpr$_o$c	cbcb	bbw	bmcw, ido
	Thorney Island	bcycy	cybcb	bmo	bbcmow
	Lympne ...	bccpr$_o$cz$_o$	ebcz$_o$	bmo	bmoxbmo
	Manston ...	bcmspr$_m$	$_o$ pr$_o$c	bmo	bmo
2	Shoeburyness ...	cm$_o$ i_{T_o}	c_{T_o} bm$_o$	bmo	bbcmox
	Felixstowe ...	cpr$_o$cz$_o$	bcm$_o$a	bmo	bmowbm
	Gorleston ...	bpr$_o$c	cpr$_o$ bcq	bcprcgb	bbcz$_o$
	Mildenhall ...	cbccpr$_o$	ccpr$_o$c	cbcb^1	bbx
	Cranwell ...	cm$_o$o$_o$c	cm$_o$	bmo	bmo
3	Birmingham ...	cirbc	bcb	bz	bp
	Upper Heyford	bcpr$_o$c	cjpbz$_o$	bmo	bmobcc
4	Ross-on-Wye	bccbc	byb	cbbcc	bc
5	Hartland Point	bc	bcc	bc	bc
	Bristol ...	bcbbc	bbcbz$_o$	bm, w	bcmowc
	Portland Bill ...	c	cc	bc	c
	Plymouth ...	bcbbc	bcb	b	bcmcir
	The Lizard ...	bc	cbcc	bc	bcw
	Scilly (St. Mary's)	bccpoc	bc	bcb	bccw
	Guernsey ...				
6	Pembroke ...	bccq	cq	cido	cbc
7	Holyhead (Valley)	cbc	bc	bcc	oidobc
	Chester (Sealand)	cpr$_o$bc	bc, b	bbc pro	mcdydmc
8	Manchester ...	cbcm$_o$	bcbmzw	bcz$_o$bm	cmfidom
10	Spurn Head ...	cqir	bc	b	pbc
	Catterick (Sc.) ...	cbcc	b	b	b
	Tynemouth ...	bcpobc	bc	bcb	c
11	St. Abbs Head	bc	bc	bcb	bbc
	Leuchars ...	bcvb	bcb	bxbwc	
12	Renfrew (Abbotsl.)	bbc	bc	bbccmo	cmodcmo
	Eskdalemuir ...	bcb	bbc	bcc	bccmo
	Point of Ayre ...	bbcb	bbcb	bcc	c
13A	Tiree	cbcbbccpr$_o$	cpr$_o$ bcc	cido irmo	cidoirmoc
13B	Stornoway ...	bccpr$_o$c	ebc	bccbcc	cidomc
15	Dalwhinnie ...	cprsbc	bcb		b, o
	Aberdeen ...	bccprcphbcb	b	bbc pro	bcc2
	Wick ...	bbccprbc	bcpr$_o$cpr	bcpro	bcido
16	Sumburgh ...	bbc	bbc	bbc	bbccx
17	Blacksod Point	c	d	bc	c
18	Malin Head ...	pr	pr	r	d
	Aldergrove ...	bc	bccpr$_o$bc	cdbdom	cidcbcc
19	Birr Castle ...	bc	c	•	bc
20	Valentia Obsy.	pr	pr	pr	bc
	Roches Point	bc	bc	bc	c

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

Districts.	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light to moderate west to southwest winds. Fine at first, soon becoming dull with with light local drizzle: rather cold, becoming milder.

Light west to southwest wind freshening. Mainly dull with occasional rain or drizzle, small in amount in southeast of area; becoming mild.

Moderate to fresh southwest wind veering west later. Dull with occasional rain or drizzle; some bright periods late in period: mild.

16 Orkneys and Shetlands	As 13A – 15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light west to southwest wind, freshening. Dull with occasional rain or drizzle: mild.

GENERAL INFERENCE

A complex depression centred near Iceland will move northeast and associated troughs will cross the British Isles. It will be mainly dull with some rain or drizzle in most districts, but amounts will be small in the Southeast. Some brighter periods will occur in the Northwest later. It will become generally mild.

FURTHER OUTLOOK

Dull and mild over most of the country at first with some rain or drizzle. Brighter and colder conditions spreading from north but with local showers.

Forecasts issued at 1030

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

7h. Wednesday 1st December 1943.

LOW

HIGH

LOW

1006 1008 1010 1012 1014 1016 1018 1020 1022 1024 1026

10° 5°W. 0° 5° 10°

60° 55° 50°

STATION MODEL

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

Scale 1.: 5,000,000

Mb In.

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

Pt. 524/4582. M. 8051. D. 4545. Gp 548/2. 7440. 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 1st December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Wednesday 1st December 1943 — No. 22959

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon ...	290	23·6	+6	NW	2	z₀	36	92	34	5	-	-	-	0	0	-
	S. Farnborough	226	24·3	+4	W'N	2	z₀	36	92	34	6	5	-	-	Tr	Tr	4000
	Boscombe Down	417	24·7	+4	WNW	3	b	37	92	35	7	-	-	-	0	0	-
	Thorney Island	10	24·7	+10	W'N	2	z₀	39	85	36	6	-	7	-	0	2-3	-
	Lympne ..	341	22·8	+18	W'S	2	z₀	33	97	32	5	-	-	-	0	0	-
	Manston ...	154	21·2	+4	NW	3	z₀	40	85	36	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	20·3	+6	WNW	3	z₀	38	85	33	5	-	-	-	0	0	-
	Gorleston ...	5	18·3	0	NW'N	3	b	37	85	32	6	-	-	-	0	0	-
	Mildenhall ...	15	21·3	+6	W	3	b	33	92	32	7	-	-	-	0	0	-
	Cranwell ...	203	21·3	+4	W	3	z₀	36	92	34	6	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	403	22·9	-4	W	3	z₀	37	92	35	6	5	-	-	1	1	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26·5	-4	NW	3	bc	49	75	43	8	2	-	-	4-6	4-6	2500
	Bristol ...	209	25·3	+2	W	1	z₀	39	97	38	6	5	-	-	4-6	4-6	6000
	Portland Bill ...	32	25·6	+6	NW	4	bc	48	85	44	7	1	-	-	4-6	4-6	5000
	Plymouth ...	86	27·9	0	W'N	1	b-bc	40	97	39	7	5	-	2	2-3	2-3	2000
	The Lizard ...	240	28·3	+2	NW	4	bc	48	85	43	7	2	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	29·8	-2	NW'N	5	bc	50	85	47	8	8	-	-	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	26·2	-2	NW	3	d.d.	49	92	49	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	24·2	-6	NNW	2	c	49	97	47	8	5	-	-	9	10	1300
	Chester (Sealand)	16	22·9	0	N'W	2	z₀	45	92	43	6	5	1	-	7-8	10	2700
8	Manchester ...	230	23·0	+2	WS	2	bc	38	92	37	5	5	-	-	4-6	4-6	2200
9	Spurn Head ...	29	19·0	+4	NNW	5	b	39	85	34	7	-	-	-	0	0	-
	Catterick (Sc.) ...	192	21·1	+6	W	3	b	37	75	33	7	-	-	-	0	0	-
	Tynemouth ...	198	20·7	+6	NW	3	z₀	38	85	34	6	-	-	-	0	0	-
11	St. Abbs Head	280	18·7	+10	NNW	4	b-bc	43	65	34	7	5	-	-	2-3	2-3	4000
	Leuchars ...	31	20·3	+2	W	2	b	37	85	32	8	5	-	-	1	1	4000
12	Renfrew (Abbotsl.)	19	21·1	-2	N	1	z₀	43	85	38	6	5	7	-	4-6	5	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	22·3	+2	NNW	5	c	48	92	46	8	5	-	-	9+	9+	4000
13A	Tiree	44	21·8	0	-	0	dr	48	97	48	6	5	2	-	9	10	1000
13B	Stornoway ...	12	19·6	-4	SW	1	c	41	97	41	7	5	7	7	4-6	5	3200
14	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	19·1	+14	WNW	4	pr	40	85	38	8	8	-	-	2-3	2-3	2000
	Wick ...	114	19·0	+6	WNW	1	pr	39	97	39	7	3	-	-	7-8	7-8	3500
16	Sumburgh ..	15	17·1	+6	NNW	2	bc	40	75	34	8	4	4	6	1	4-6	2500
17	Blacksod Point	18	27·2	-2	W'N	4	c	50	92	49	7	8	-	-	9	9	1500
18	Malin Head ...	84	23·2	+2	NW	2	c	50	92	49	8	5	-	-	10	10	800
	Aldergrove ...	294	24·0	-2	W	2	i.d.	47	97	46	6	-	2	-	10	10	600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	30·4	-6	WNW	2	b-bc	50	85	46	8	8	-	-	2-3	2-3	2500
	Roches Point	22	28·3	-6	NNW	3	bc	47	92	45	8	5	-	-	4-6	4-6	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	23·2	+2	WNW	2	z₀	39	85	35	5	5	-	-	4-6	4-6	1800	1	*
Croydon ...	23·6	+2	NW	1	z₀	39	92	37	5	5	-	-	9+	9+	3000	1	*
S. Farnborough	23·9	-2	W'N	1	z₀	35	97	34	6								
Boscombe Down	24·5	+2	W'N	2	c/d	41	97	40	7	5	5	5	2-3	4-6	3000	3	*
Thorney Island	24·2	-4	WNW	2	z₀	38	92	36	6	5	-	-	7-8	7-8	3500	1	*
Lympne ..	23·0	+2	WNW	2	m	32	97	31	4	-	4	1	0	2-3	1000	0	3
Manston ...	22·0	+10	NW	3	z₀	38	92	37	5	5	-	-	1	1	2000	1	*
Shoeburyness ...	21·2	+4	WNW	3	z₀	36	85	33	5	-	7	-	4-6	4-6	8200	3	*
Felixstowe ...	21·4	+2	WNW	4	z₀	37	85	33	5	-	4	-	0	Tr	-	1	4
Gorleston ...	18·5	+4	NW'N	3	z₀	36	85	33	6	5	-	-	2-3	2-3	1500	1	3
Mildenhall ...	21·6	+2	W'N	3	z₀	34	97	33	6	-	-	-	0	0	-	3	*
Cranwell ...	21·7	+2	W'N	2	b	36	92	34	6	-	-	-	0	0	-	0	*
Birmingham ...	23·2	+2	WNW	2	id.	43	97	42	4	6	-	-	10	10	800	1	*
Upper Heyford	22·9	-2	NW'N	3	c-bc	41	85	38	7	5	-	-	7-8	7-8	2800	1	*
Ross-on-Wye	23·2	-4	S'W	2	c	45	85	41	8	5	-	-	10	10	2500	1	*
Hartland Point	25·7	-8	NW	3	c	50	85	46	7	5	2	-	4-6	10	2500	1	4
Bristol ...	24·6	-1	W'S	3	c	45	85	43	6	5	7	-	9	10	5000	1	*
Portland Bill ...	24·6	-4	NW	4	c	48	85	44	7	5	-	-	10	10	4500	1	5
Plymouth ...	26·3	0	NW	1	c/r	49	97	49	6	5	7	-	4-6	9+	1000	1	
The Lizard ...	27·2	0	NW	3	bc	50	92	48	6	5	-	-	4-6	4-6	2000	0	3
Scilly (St. Mary's)	28·4	+8	NW	5	c-bc	50	92	48	8	8	7	-	4-6	7-8	1500	1	4
Pembroke ...	25·8	0	NNW	4	bc	50	85	47	7	5	-	-	4-6	4-6	1500	1	
Holyhead (Valley)	23·7	-2	NW	3	c-bc	49	92	47	7	5	7	8	2-3	7-8	2500	1	3
Chester (Sealand)	23·7	+10	NNW	1	z₀	46	97	45	4	5	2	-	10	10	1000	1	*
Manchester ...	22·5	+2	W'N	2	id.	42	97	41	4	5	2	-	9	10	1200	1	*
Spurn Head ...	20·2	+6	NW'W	5	b-bc	40	85	35	7	7	-	-	2-3	2-3	2500	1	4
Catterick (Sc.) ...	21·6	+2	WNW	3	bbc	37	92	35	7	5	4	-	0	2-3	-	0	*
Tynemouth ...	21·3	+6	W	3	b	37	97	36	7	-	-	-	0	0	-	1	3
St. Abbs Head	19·6	0	W	3	c-bc	43	75	37	8	4	-	-	7-8	7-8	4000	0	3
Leuchars ...	19·9	-4	NSW	2	c	37	92	35	7	5	7	-	7-8	10	3000	1	*
Renfrew (Abbotsl.)	20·7	+2	-	0	z₀	45	92	43	6	5	7	-	7-8	10	1300	1	*
Eskdalemuir ...	21·4	+2	S.	1	c	36	85	33	6	5	-	-	9	9	1500	1	*
Point of Ayre ...	22·3	0	NNW	3	c	50	92	49	8	5	2	-	7-8	10	1500	0	*
Tiree	20·6	-4	W	3	c-bc	48	97	47	7	5	2	-	4-6	7-8	1800	1	2
Stornoway ...	16·7	-14	W	4	c	46	97	46	8	5	-	6	7-8	10	2800	1	2
Dalwhinnie ...		-4	N	1	c	37	97	36	8	5	7	-	4-6	10	2500	4	*
Aberdeen † ...	18·8	-2	WNW	1	m	39	85	35	4	5	7	-	2-3	9+	5700	1	1
Wick ...	17·6	-8	-	0	id.	40	97	39	6	-	2	-	10	10	3500	1	*
Sumburgh ..	16·2	-6	-	0	c	38	85	33	8	2	7	*	Tr	9+	2000	1	2
Blacksod Point	23·9	-22	SW	3	c	49	85	45	7	8	-	-	9+	9+	1500	5	2
Malin Head ...	21·9	-2	WNW	2	c-bc	48	92	46	8	5	-	-	7-8	7-8	800	2	3
Aldergrove ...	23·5	-2	W'S	1	c	45	97	44	8	8	-	-	7-8	10	900	1	*
Birr Castle ...	25·4	-6	WSW	1	c	46	92	44	7	5	-	-	9	9	2500	1	*
Valentia Obsy.	27·4	-18	SSW	2	c-bc	47	85	43	8	8	-	-	7-8	7-8	2500	1	2
Roches Point	27·4	-6	NW	1	c	48	92	46	8	5	-	-	9	9	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 30th Hrs. (38)
London (Kew)	47	37	26	0·1	-	0·3
Croydon ...	47	36	34	0·1	0·1	0·0
S. Farnborough	46	33	22	Tr	-	-
Boscombe Down	49	33	29	Tr	Tr	3·8
Thorney Island	50	36	26	Tr	-	*
Lympne ..	44	32	24	0·1	-	1·8
Manston ...	45	37	33	Tr	-	1·3
Shoeburyness ...	46	35	29	0·2	-	1·0
Felixstowe ...	45	36	32	1	0·1	1·4
Gorleston ...	45	35	30	1	0·4	1·6
Mildenhall ...	46	33	28	0·5	Tr	1·0
Cranwell ...	45	33	27	-	-	1·6
Birmingham ...	45	39	35	3	Tr	3·7
Upper Heyford	45	33	27	1	-	*
Ross-on-Wye	49	40	34	-	-	5·8
Hartland Point	48	47	45	-	-	1·5
Bristol ...	49	37	30	0·1	Tr	4·7
Portland Bill ...	52	46	*	-	-	*
Plymouth ...	50	38	30	Tr	Tr	6·0
The Lizard ...	50	46	*	0·5	-	5·8
Scilly (St. Mary's)	52	48	*	0·3	Tr	5·9
Pembroke ...	49	46	*	-	0·4	3·2
Holyhead (Valley)	50	45	41	-	Tr	*
Chester (Sealand)	48	42	38	0·6	1	4·9
Manchester ...	46	35	30	1	-	*
Spurn Head ...	46	37	35	3	Tr	2·3
Catterick (Sc.) ...	45	34	26	-	-	4·9
Tynemouth ...	45	36	32	Tr	-	*
St. Abbs Head	45	41	*	Tr	-	*
Leuchars ...	45	33	23	-	-	6·0
Renfrew (Abbotsl.)	49	40	29	0·5	Tr	5·7
Eskdalemuir ...	48	33	23	*	-	6·4
Point of Ayre ...	49	46	*	*	-	5·6
Tiree	48	43	*	0·2	0·6	0·7
Stornoway ...	46	38	39	0·2	Tr	1·8
Dalwhinnie ...	39	32	25	0·5	-	1·6
Aberdeen † ...	43	39	33	1	Tr	3·6
Wick ...	44	37	32	1	3	*
Sumburgh ..	44	34	25	Tr	Tr	4·9
Blacksod Point	51	48	*	Tr	-	*
Malin Head ...	49	46		1	1	3·3
Aldergrove ...	47	41	40	0·3	1	3·3
Birr Castle ...	49	46	43	-	-	4·2
Valentia Obsy.	52	47	42	1	2	1·5
Roches Point	51	47	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 30th November: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	01h. G.M.T. 1st December: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww $V_H h_s N_h$	DDFWN
109	36	25854	26485	8-	81654	28484	8-	01754	24414	5-	52648	18158
115												
205												
206	36	25863	26184	2-	25854	00084	5-	01868	00018	57	02854	00028
210	26	02584	25425	5-	01854	25514	40	01963	24313	57	22865	21268
219	80	01864	28484	57	02853	28428	5-	51438	18268	57	02855	22457
230	20	01263	28525	80	25383	28283	52	02764	23128	5-	22748	00068
245	30	01952	25382	8-	01952	26314	50	01963	24113	57	02863	20114
260	5-	01762	26213	00	05690	23210	00			00	05	
277	2-	01854	63504	8-	01854	28384	02	21638	24368	52	02744	26328
279	14	01651	31412	10	01763	24244	50	01764	24114	52	05655	30228
285	13	01854	30514							13	01	
288	30	01853	62513	00	05690	24310	00	00790	25300	04	01790	22100
378	87	01764	61514	57	02755	28127	57	01754	28325	57	02745	28165
301	10	01852	29512	40	01751	28401	50	01754	28214	51	05668	28268
321	26	02755	61416				00	05630	28300	00	05590	22200
299	80	14765	30715	80	01744	30714	00			40	01	
292	36	01953	61583	04	01790	24312	00	00790	20210	00	00790	26100
310	16	01444	26414	20	01682	26412				--		
314	50	05653	63413	00	05690	27200	00			00		

III	13h. G.M.T. 30th November: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	01h. G.M.T. 1st December: $C_L C_M$	ww $V_H h_s N_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww $V_H h_s N_h$	DDFWN
333	2o	02754	64524	10	01863	32413	57	02754	32428	53	02655	28227
334	--	27644	28585	--	02644	32415				--	03637	22228
340	86	01754	30424	40	01751	30311	50	01863	26283	62	67345	26188
136	86	02744	30585	40	25753	28583	00	00790	26400	00	05690	24300
336	20	01755	28415	10	01754	28414						
350	46	02755	61585	4-	05661	28321	00	05690	26300	50	05651	22111
368	20	02855	65585	40	01763	63513	57	05654	28385	53	05644	28425
379	8-	02854	63586	00	00890	28410	50	01753	28213			
390	5-	05654	28528	57	05564	28546	00	05590	26300			
382	8-	02857	63587	00	01890	26226	00	00890	28400	53	02764	28217
438	70	01764	28614	50	05662	30612	00	08490	28300	54	63648	26414
430	2-	25855	52417	50	00761	61411				03	05690	22116
409	2-	02865	63625	50	01864	63724	5-	02768	28328	57	02745	28428

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 1st December
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.bcc	c.bc	b.z₀.bc	Kew 24 hours ended 7h. Max. 0·3 Time 2021h 30th. Min. (0·1) Time 0-5h 1st
Croydon ...	cz.ir.z₀	cz₀	c.z.bm.c	
Greenwich ...	cir.c	c	cbbcbc	
Camden Square	cr	c	*	
Kensington ...	c	c.bc	*	
Hampstead ...	bc.cr	bc	bc	

Stations.	Temperature: Day Max °F	Temperature: Night Min °F	Temperature: Min on grass °F	Rainfall: Day mm	Rainfall: Night mm	Sunshine to sunset hrs Yesterday	Humidity: 15h % Yesterday	Humidity: 21h % To-day
Kew ...	47	37	26	0·1	-	0·3	*	*
Croydon ...	47	36	34	0·1	0·1	0·0	*	*
Greenwich ...	46	36	29	0·3	-	0·1	62	90
Westminster ...	47	38	28	0·5			81	95
Regents Park ...	46	37	30	0·5	-		69	91
Camden Square	46	37	28	1	-	*	*	91
Kensington ...	47	36	32	*	*		*	*
Hampstead ...	44	35	27	0·7	-		*	91

SECRET

Page 1

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

Thursday 2nd December 1943 — No. 29360

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

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)	23·3	-4	W	2	m	45	85	42	4	5	-	-	9+	9+	4000
	Croydon ...	23·6	+0	W	2	m	45	92	41	4	5	-	-	9	9	3000
	S. Farnborough	23·8	-2	W'N	1	Z_o	46	92	44	6	5	7	-	9+	10	1000
	Boscombe Down	23·7	-6	NW'N	3	e	50	85	46	7	5	3	-	4-6	9	4000
	Thorney Island	23·9	-6	W	1	o/f	47	97	45	5	5	-	-	10	10	2000
	Lympne ...	22·9	-6	NNW	2	m	45	75	39	4	-	-	-	0	0	-
	Manston ...	22·5	0	NW	3	Z_o	44	85	40	5	-	-	-	0	2-3	-
2	Shoeburyness ...	22·6	0	NW	1	Z_o	47	75	36	5	-	4	-	Tr	Tr	9000
	Felixstowe ...	22·2	+2	NW	3	Z_o	45	75	36	6	-	-	-	0	0	-
	Gorleston ...	19·9	+2	NW'N	2	Z_o	45	75	38	6	-	7	-	0	2-3	5000
	Mildenhall ...	22·5	+2	NNW	2	Z_o	45	75	37	6	-	4	1	0	2-3	8000
	Cranwell ...	21·7	0	W	2	Z_o	46	75	37	5	-	7	-	2-3	2-3	8200
3	Birmingham ...	22·4	-6	WSW	2	m	47	97	46	4	5	3	-	2-3	9	1500
	Upper Heyford	23·1	-4	SW	1	Z_o	44	75	38	6	5	-	-	10	10	1000
4	Ross-on-Wye	22·9	-8	W	3	bc	52	75	48	8	7	3	1	1	4-6	3500
5	Hartland Point	24·6	-14	NW	2	c	51	97	49	7	5	6	-	9	9+	1500
	Bristol ...	24·3	-6	W	4	Z_o	51	85	46	6	-	7	-	0	9+	7800
	Portland Bill ...	24·7	-6	W	3	c	53	85	49	8	5	-	-	9	9	6000
	Plymouth ...	25·7	-8	W'S	3	c/r	53	85	49	7	8	7	-	4-6	9+	2000
	The Lizard ...	26·5	-8	WNW	3	c	51	97	49	6	8	2	-	9	10	1500
	Scilly (St. Mary's)	26·7	-18	W'N	4	c	51	85	47	8	4	7	-	4-6	9+	1500
	Guernsey ...															
6	Pembroke ...	24·8	-4	NW	2	c	51	85	47	7	5	-	-	9+	9+	1500
7	Holyhead (Valley)	22·7	-8	W'N	4	c	51	85	47	8	8	5	-	2-3	9	2000
	Chester (Sealand)	21·9	+2	NW'N	3	Z_o	50	92	46	6	8	-	-	9	9	1200
8	Manchester ...	21·6	-10	SW'S	2	rf	45	97	45	1	-	-	-	10	10	<150
10	Spurn Head ...	21·5	+4	W	3	Z_o	43	55	27	5	1	4	1	2-3	2-3	2500
	Catterick (Sc.)...	21·0	-6	SE	2	c	48	75	39	7	5	-	-	4-6	10	1800
	Tynemouth ...	20·6	-10	SW	3	m	45	85	41	4	5	-	-	4-6	7-8	2600
11	St. Abbs Head	17·8	-14	SSW	2	c/r	41	97	41	7	5	2	-	7-8	9+	2500
	Leuchars ...	17·4	-10	W	2	fg	43	75	34	5	5	3	-	2-3	10	6000
12	Renfrew (Abbotsl.)	18·0	-18	WSW	1	Z_o	51	85	46	6	8	5	-	2-3	9+	2500
	Eskdalemuir ...	19·5	-30	S'E	1	o	42	97	42	5	-	-	-	10	10	300
	Point of Ayre...	20·6	-14	WNW	5	c	50	85	46	8	8	7	-	1	9	2000
13A	Tiree	15·9	-32	SW	2	c	49	85	46	8	5	7	-	4-6	9+	1000
13B	Stornoway ...	12·7	-34	SSW	5	id	48	92	45	7	5	7	-	4-6	9+	1400
15	Dalwhinnie ...	16·5	-14	W	1	c-bc	43	85	38	8	5	3	1	2-3	7-8	2000
	Aberdeen ...	16·6	-14	SW	2	m	46	75	38	4	5	-	-	9+	9+	4000
	Wick ...	15·2	-6	SSW	1	c	46	97	44	9	5	7	2	4-6	9+	5500
16	Sumburgh ...	13·2	-20	S'W	4	ir_o	44	97	43	6	6	2	-	9	10	600
17	Blacksod Point	16·9	-42	SW'S	4	c	51	85	47	8	6	-	-	10	10	1500
18	Malin Head ...	17·2	-34	S'W	3	c	48	85	44	8	8	7	-	4-6	9+	1500
	Aldergrove ...	20·1	-16	SSW	3	Z_o	47	85	43	6	5	7	4	4-6	9	1700
19	Birr Castle ...	21·5	-32	WSW	2	c	48	86	44	8	5	-	-	9	9	2500
20	Valentia Obsy.	22·3	-34	S'W	4	ir_o	49	92	47	8	5	-	-	10	10	2100
	Roches Point	24·0	-28	WSW	3	c/d	49	85	45	8	5	-	-	9	9	800

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

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)
21·5	-10	SSW	1	c/r	44	92	43	4	5	-	-	10	10	2500	1	*
22·1	-10	SW'N	2	m	45	97	43	4	-	-	-	10	10	1300	0	*
21·7	-10	W'S	1	Z_o	45	97	44	5	5	3	-	1	9+	3000	1	*
22·3	-6	WNW	2	Z_o	45	97	44	6	5	-	-	9+	9+	3000	0	*
22·1	-6	-	0	bc f+	43	97	42	2	5	-	-	4-6	4-6	2500	0	*
22·6	+2	W'S	1	bf	37	97	37	3	-	3	-	1	1	7800	1	2
23·2	-2	SW'W	2	m	37	92	36	4	-	-	-	0	1	-	1	*
22·8	-2	NW	2	o f+	38	92	36	1	-	-	-	10	10	<150	1	*
21·5	-2	WSW	1	m	41	85	37	4	4	2	-	2-3	7-8	7800	1	2
20·6	0	W'N	2	Z_o	40	85	36	5	5	7	-	4-6	4-6	2000	0	3
20·8	-1	SSW	2	m	41	92	38	4	5	-	-	10	10	3000	0	*
19·8	-10	-	0	m	40	97	40	4	5	3	-	4-6	4-6	3000	-	*
20·4	-12	WSW	3	m	45	92	43	4	-	4	-	0	4-6	-	1	*
21·2	-10	SSW	1	m	45	97	44	4	5	5	-	2-3	7-8	3000	1	*
20·7	-14	SW	2	c	47	85	43	7	5	7	-	7-8	9+	3000	1	*
21·1	-22	W	3	c/r	49	97	48	7	5	-	-	10	10	1500	1	3
22·1	-14	SW'S	2	ir_o	47	92	45	6	5	7	-	4-6	9+	5600	1	*
22·5	-12	W	3	c	51	92	49	7	5	-	-	10	10	1500	1	4
23·3	-14	WSW	3	Z_o	50	97	49	6	5	7	-	7-8	10	1500	1	2
23·9	-8	WSW	4	c	50	85	46	6	8	-	-	9	10	1100	0	4
23·2	-24	WSW	5	c	49	85	45	8	8	7	-	4-6	9+	450	1	
20·6	-10	WSW	4	c	51	75	43	7	8	7	8	9+	9+	1500	1	
18·7	-30	SW'S	5	c	50	85	46	8	5	7	-	7-8	9+	1000	1	3
18·9	-18	WSW	2	Z_o	48	85	43	5	5	7	-	9	10	1600	1	*
19·9	-10	S	2	m	45	97	45	4	5	-	-	4-6	9+	500	1	*
19·3	-4	SSW	3	Z_o	42	85	37	5	5	-	-	7-8	7-8	2500	0	2
19·3	-4	SSW	3	m	42	97	41	4	5	7	8	4-6	7-8	1700	0	*
17·1	-16	SW	3	m	45	97	44	4	5	-	-	9	9	2500	1	3
14·3	-2	SSW	4	c	45	92	43	6	5	-	-	10	10	1500	0	3
13·7	-24	SSW	1	m	43	92	41	4	-	7	-	0	9+	-	1	*
13·4	-22	S	2	m	47	85	43	4	5	7	-	7-8	10	1800	1	*
15·1	-30	SSW	3	f+	42	97	41	3	5	-	-	10	10	400	1	*
16·2	-34	SW'W	2	c	47	97	46	8	9	7	-	7-8	10	1800	0	2
08·3	-22	S	5	Z_o	48	92	46	6	6	2	-	4-6	10	700	1	3
05·9	-14	S	6	ir_o	48	92	46	7	5	7	-	7-8	10	1000	1	4
12·0	-28	SW	3	id_o	40	92	37	6	6	7	-	9	10	2000	4	*
13·0	-24	SSW	1	cf	45	85	39	2	-	7	-	0	9+	7800	1	1
10·9	-30	SSW	3	c	45	92	42	8	5	7	6	2-3	9	2500	1	*
08·9	-18	SSW	3	c	47	97	46	7	5	7	-	4-6	10	2000	1	2
06·2	-68	S'W	7	D+	49	97	48	6	6	2	-	4-6	10	800	2	6
09·3	-42	S'W	4	c	47	85	43	8	5	2	-	2-3	10	1500	3	2
13·8	-38	SW	3	c/d	45	92	42	7	5	-	-	10	10	800	1	*
13·4	-50	WSW	3	ds_o	47	85	43	7	6	2	-	7-8	10	800	1	*
12·9	-58	S'W	5	ro_o	51	92	49	6	6	-	-	10	10	700	1	4
17·3	-42	S:W	4	ir_o	50	92	46	8	6	2	-	4-6	10	1600	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 1st ..... (39)	13h.—18h. 1st ..... (40)	18h. 1st ... to 1h. 2nd (41)	1h.–7h. 2nd. (42)
bc f w cm	cm f r_{rcm}	ci rm $_o$	cr r r
cm	cm o m cm	cm r r o c f	cf c r r f
cm $_o$ i d_o cm $_o$	cm $_o$	cm o bc m o c	cb cc $_o$ drm $_o$
cc m $_o$ d_o m $_o$	cc m $_o$	cm o cm $_o$	oc R m $_o$ r
cm $_o$ c f cm $_o$	cm f	cf c p r c	cr o r o cr r
bm	bm $_o$ bbcf	cm $_o$ bf cf	cr o r $_o$ cm
bc bm $_o$	bm $_o$	bm o f cm o i d_o	c m f d d $_o$
bc m $_o$ bm $_o$	bc m $_o$ bf	f c b cc m	c r r m
bm $_o$ x bz $_o$	bz $_o$ ec m e	cm o	ir $_o$ c r o r o
cb cz $_o$ cz $_o$	bcz $_o$	bcc z $_q$	cz $_o$ f o c 2
bm $_o$ x bm $_o$	bm $_o$ bcm cm	cm c d $_o$ c	cf cir m $_o$
bc m $_o$	o	f d $_o$ d $_o$	cr r m $_o$ r o $_o$
$_o$ mir cm	cm bc	bc	bc pr
cid $_o$ d_o d_o m $_o$	cm	cm o ir $_o$ c	cm d r $_o$ m
cp $_o$ bc	bcc	bcc	cr r ^c_o
bc	cr $_o$	cr r	cr r cbc
cm $_o$ w bcm $_o$ cm $_o$	cm $_o$	cm $_o$ ir $_o$ d $_o$ d $_o$	c ir c
bcc	cc	co	o cbc
cm $_o$ c	cr $_o$ r $_o$ cm $_o$	cc ir $_o$ cr r	cr r m $_o$
cid $_o$ c	cid $_o$ bc	cp r r	pr cbc
c	c p $_o$ c	c d o ir $_o$	cr r p bc
c	c	cp r r r q m $_o$	cp r q
cbc c	c	cir r r $_d$	c b b c
cf d d m $_o$	cm $_o$ r $_o$ c	cm $_o$ ir $_o$	cm o r $_o$ r $_o$
$_{fg}$ m F F	F F F ir	cm o m	ir $_o$ r r r m $_o$
cc r $_o$ c	cr $_o$ cm $_o$	bcc p r c	cr r o m r r
cc m $_o$	cm $_o$ cm z	cr o r o m $_o$	cr o r o m $_o$
cf e b m c	cm $_o$ m	cm $_o$ cr r m $_o$	cr r m $_o$ c
f c m $_o$ o	f c m $_o$ o	of p $_q$ cr r	cr r c
f e	c	cr $_o$ d $_o$	or r cbc
cbc	cc id $_o$ m $_o$ c	cr o r o m $_o$ c	cm $_o$ cbc
cc id $_o$	cid $_o$ cc ir $_o$	cid $_o$ cb o r o m $_o$	cd $_o$ d $_o$ m $_o$ bc
oc	cid $_o$ o	*	oir
cf id $_o$ cz	cz ff	cff z $_o$	cz r o r o m
cid $_o$ c	cb cc	c	cid $_o$
cx r dc	c ir m c	cir $_o$ bc	bc ir $_o$ c
c	r	pr	pr
pr	c	r	
bcc	cc id $_o$ e	cr o r ir $_o$	cir $_o$ cbc
c	r	r	pr
r	r	r	pr
d	r	r	b

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

Districts.	
1 S.E. England 2 E. England ...	Moderate to fresh south wind veering west. Dull and rainy at first, showers and bright periods later: rather cold.
3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales	Fresh westerly winds, strong to gale locally on coasts. Occasional showers with local hail and thunder; bright periods: rather cold.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Moderate or fresh west or southwest winds, strong to gale locally on coasts, becoming variable later. Occasional showers with local hail and thunder: rather cold.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or fresh southerly winds, strong locally, backing easterly. Mainly showery conditions with local hail and thunder, but a belt of more general rain in east at first, moving westwards later: rather cold.
16 Orkneys and Shetlands	As 13A - 15
17 N.W. Ireland 18 N.E. Ireland	As 8 - 12
19 S.E. Ireland 20 S.W. Ireland	As 3-7.

GENERAL INFERENCE

A depression centred of West Scotland is moving slowly south and will turn southeast later. Weather will be generally rather cold and showery with local hail and thunder, but there will be some period of more general rain in the East and North.

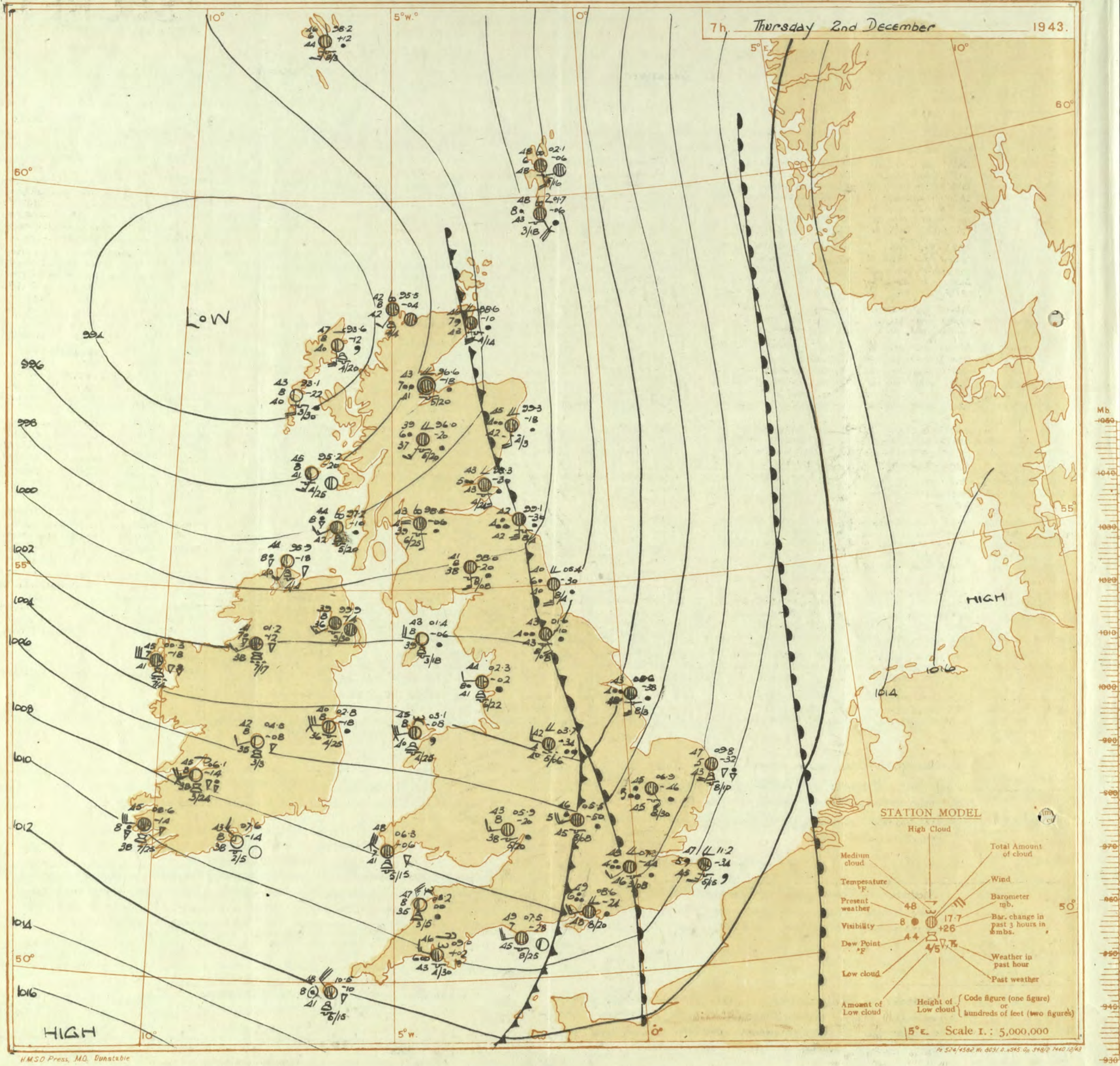
FURTHER OUTLOOK

Continuing rather cold and showery.

Forecasts issued at 1030

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

7h. Thursday 2nd December 1943.



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

Pa 524/4582 Wt. 6031/8. w345 Gp. 348/2 1440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Thursday 2nd December.

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Thursday 2nd December 1943 — No. 29960

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·1	-40	SSW	3	cf	45	92	43	3	5	2	–	7-8	9	2000
	S. Farnborough	226	15·4	-38	S'W	2	c	46	92	44	7	5	–	–	10	10	3800
	Boscombe Down	417	16·3	-32	SW'S	3	m	45	97	44	4	5	–	–	10	10	2100
	Thorney Island	10	16·6	-34	SSW	3	c	47	97	47	7	8	–	–	9	9	2400
	Lympne ...	341	17·8	-30	SW	2	cf	46	97	46	3	5	–	–	4-6	10	500
	Manston ...	154	19·0	-14	SSW	2	m	43	92	42	4	5	–	–	10	10	5300
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	16·9	-30	SSW	2	zo	44	97	43	5	5	–	–	10	10	800
	Gorleston ...	5	16·4	-34	SW	4	zo	43	85	40	5	5	–	–	10	10	1000
	Mildenhall ...	15	15·1	-32	S	3	fr	42	97	41	3	–	–	–	10	10	<150
	Cranwell ...	203	12·7	-32	W	3	df	41	97	41	3	–	–	–	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14·3	-38	SSW	2	m	43	97	43	4	5	7	–	7-8	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·1	-54	SW	6	rr	48	92	47	7	6	2	–	9	10	1500
	Bristol ...	209	14·2	-40	S	3	zo	46	92	43	6	5	–	–	10	10	3500
	Portland Bill ...	32	15·4	-44	WSW	4	o	50	85	46	7	5	–	7	10	10	2500
	Plymouth ...	86	14·5	-46	SW'W	6	rr	49	97	48	6	6	2	–	10	10	1500
	The Lizard ...	240	14·2	-52	WSW	7	rr	48	97	48	5	5	–	–	10	10	800
	Scilly (St. Mary's)	163	12·8	-50	SSW'W	6	o/r	50	97	49	6	5	–	–	10	10	1500
	Guernsey ...	175															
6	Pembroke ...	142	08·8	-50	WSW	7	rr	49	97	45	6	5	–	–	10	10	800
7	Holyhead (Valley)	32	05·7	-64	S	7	rr	47	97	47	6	-	2	–	10	10	1400
	Chester (Sealand)	16	09·4	-16	S	4	c/r	41	92	38	5	5	–	–	10	10	2500
8	Manchester ...	230	11·0	-42	S'E	4	zo	45	85	41	6	5	–	–	10	10	3000
10	Spurn Head ...	29	13·4	-32	S'W	4	cbcF	41	97	41	1	5	–	–	7-8	7-8	1500
	Catterick (Sc) ...	192	11·1	-8	SSE	3	of	42	97	42	3	5	–	–	10	10	3800
	Tynemouth ...	108	10·1	-34	SSW	4	zo	43	92	41	6	5	–	–	9	9	2500
11	St. Abbs Head	280	06·2	-50	SE	3	c/pr	44	92	42	7	5	–	–	9+	9+	1500
	Leuchars ...	31	04·8	-42	SSE	4	r.ro	44	85	40	6	5	–	–	10	10	3200
12	Renfrew (Abbotsl.)	19	02·8	-54	S'E	3	rr	46	92	45	6	–	2	–	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	04·2	-56	SW	5	dd	48	92	46	7	6	2	–	1	10	800
13A	Tiree	44	99·0	-26	WSW	8	c/r	46	85	42	6	–	2	–	10	10	800
13B	Stornoway ...	12	96·6	-40	SSE	6	d.d.	48	85	44	6	5	2	–	9	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	04·5	-40	S	3	ir.	44	85	41	7	5	7	–	4-6	10	3000
	Wick ...	114	02·6	-34	S	3	c	45	92	43	8	5	7	–	2-3	9+	4000
16	Sumburgh ...	15	04·3	-24	SSE	6	bc	48	85	44	7	5	7	–	1	4-6	1000
17	Blacksod Point	18	04·2	-10	WSW	6	rr	43	92	41	7	6	2	–	4-6	10	1500
18	Malin Head ...	84	99·9	-14	W	4	ir.	47	65	35	8	5	–	–	7-8	7-8	1500
	Aldergrove ...	294	02·3	-22	W	4	ir.	43	92	40	8	-	2	–	10	10	2600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·2	-6	W	5	b-bc	48	75	41	8	2	–	6	2-3	2-3	2500
	Roches Point	22	10·0	+8	NW'W	4	b-bc	48	92	46	8	5	–	–	2-3	2-3	1500

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

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)	06·3	-40	SSW	3	ro/ro	47	92	45	5	6	2	–	7-8	10	900	1	*
	Croydon ...	07·3	-44	SW	3	rr	48	92	46	4	5	2	–	2-3	10	800	1	*
	S. Farnborough	06·4	-46	SSW	3	rr	47	97	47	5	5	–	–	10	10	600	1	*
	Boscombe Down	07·3	-30	NW'W	4	rr	44	97	43	6	5	2	–	7-8	10	600	1	*
	Thorney Island	08·6	-24	WSW	4	rr	49	97	48	6	-	2	–	10	10	2000	1	*
	Lympne ...	10·6	-34	SW	4	ir.	47	92	45	4	5	2	–	2-3	10	400	1	3
	Manston ...	11·2	-34	SSW	3	ido	47	92	45	5	5	2	–	7-8	9+	1500	1	*
2	Shoeburyness ...	10·2	-32	SSE	3	rr	46	92	45	4	5	–	–	10	10	1500	1	*
	Felixstowe ...	09·2	-40	S	4	ro/ro	45	97	45	6	5	–	–	7-8	10	5000	1	3
	Gorleston ...	09·8	-32	SSW	4	c/pr	47	85	45	5	5	–	–	10	10	1000	1	3
	Mildenhall ...	06·9	-46	S'E	4	rr	45	97	45	5	5	–	–	10	10	3000	1	*
	Cranwell ...	04·6	-42	SSW	4	ro/ro	44	97	44	4	5	–	–	10	10	1000	1	*
3	Birmingham ...	05·2	-20	WSW	2	m	43	85	40	4	5	7	–	4-6	7-8	1500	1	*
	Upper Heyford	05·5	-50	WSW	4	ro	46	97	45	5	5	–	–	10	10	800	1	*
4	Ross-on-Wye	05·9	-20	W	3	c-bc	43	85	38	8	5	–	–	7-8	7-8	2000	1	*
5	Hartland Point	08·2	0	NNW	5	bc	47	65	35	8	2	6	–	2-3	4-6	2800	1	0
	Bristol ...	07·5	-10	W	4	zo	43	92	41	6	5	–	–	2-3	2-3	3000	1	*
	Portland Bill ...	07·5	-28	WSW	5	c	49	85	45	7	5	–	–	10	10	2500	1	5
	Plymouth ...	09·0	+2	WNW	3	zo	46	92	43	6	5	3	-2	4-6	7-8	3000	1	3
	The Lizard ...	09·9	-6	WNW	6	bc	48	92	45	6	2	–	–	4-6	4-6	*	1	5
	Scilly (St. Mary's)	10·5	-10	NW	6	c-bc	48	75	45	8	8	–	–	7-8	7-8	1500	1	5
	Guernsey ...																	
6	Pembroke ...	06·3	-6	WNW	6	c-bc	48	75	41	7	8	–	–	7-8	7-8	1500	1	4
7	Holyhead (Valley)	03·1	-8	W.S	7	c-bc	45	85	40	8	8	6	–	4-6	7-8	2500	1	*
	Chester (Sealand)	03·7	-2	W'S	1	zo	42	85	37	5	5	–	–	2-3	2-3	3500	1	*
8	Manchester ...	03·3	-14	SW'S	3	c/r	43	92	40	6	6	2	–	3	10	1000	1	*
10	Spurn Head ...	05·6	-38	SSE	5	ro/ro	43	97	43	4	5	–	–	10	10	800	1	3
	Catterick (Sc) ...	01·6	-10	SSE	4	ro/ro	43	97	43	4	5	–	–	10	10	800	1	*
	Tynemouth ...	05·4	-30	S	5	ir.	44	97	44	6	–	2	–	10	10	1500	1	3
11	St. Abbs Head	99·1	-30	S	5	rr	42	97	42	4	5	–	–	10	10	1500	1	4
	Leuchars ...	98·3	-30	SSE	3	ro/ro	43	97	43	5	5	1	–	4-6	10	2400	1	*
12	Renfrew (Abbotsl.)	98·5	-6	SSE	1	m	45	85	39	4	5	7	–	9	10	2500	1	*
	Eskdalemuir ...	98·0	-20	S'E	3	o/r	41	85	38	6	5	–	–	10	10	800	1	*
	Point of Ayre ...	00·1	-6	W'N	4	bbc	43	85	39	8	8	–	–	2-3	2-3	1800	1	3
13A	Tiree	95·2	-20	SSW	3	pc	45	85	41	8	5	–	–	4-6	4-6	2500	1	2
13B	Stornoway ...	93·6	-12	S	5	rc	47	75	40	8	8	–	–	4-6	4-6	2000	1	3
15	Dalwhinnie ...	96·6	-20	SW	3	ir.	39	92	37	6	5	2	–	7-8	10	2000	1	*
	Aberdeen † ...	99·3	-18	S	4	ro/ro	45	92	42	4	6	2	–	4-6	10	800	1	3
	Wick ...	98·6	-10	SSE	6	id.	46	92	43	7	5	2	–	10	10	1400	1	*
16	Sumburgh ...	01·7	-6	SE'S	6	ir.	48	85	43	8	5	7	6	2-3	9	1800	1	3
17	Blacksod Point	00·3	-18	W'N	6	c/pr	45	85	41	7	9	–	–	9+	9+	1500	2	5
18	Malin Head ...	99·9	-18	SW'S	3	pr	44	85	40	8	8	–	–	4-6	4-6	1500	2	3
	Aldergrove ...	99·9	-14	SW	3	c	39	92	36	8	5	–	–	2-3	9+	3000	1	*
19	Birr Castle ...	04·5	-8	WSW	2	b-bc	42	75	35	8	3	–	–	2-3	2-3	800	1	*
20	Valentia Obsy.	08·6	-14	W'N	6	PR	45	75	38	8	3	–	–	9+	9+	2500	1	5
	Roches Point	07·6	-14	NW	3	b	43	85	38	8	5	–	–	1	1	2500	1	4

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 1st Dec. ..... 18h. G.M.T. — 01h. G.M.T. 2nd Dec. ..... 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	57	02754	23426	07	02690	16324	57	01754	47424	57	61744	47664
115				87	02844	24427	52	62735	16168	27	02844	20227
203												
206	57	02964	22127	57	02765	20128	52	62755	00068	52	62755	00068
210	57	02824	19227	57	02863	14327	57	02864	14328	57	02864	12328
219	27	02844	16387				02	64638	22458	50	01865	15463
230	88	02957	20267				5-	64648	20168	83	25854	00085
245	57	02964	00027	57	02753	00027	52	62654	17468	52	62555	47568
260	05			57	08					52	08445	20468
277				57	02845	18327				5-	01755	55465
279	54	05555	22327	47	05535	22228	52	62545	51568	57	61654	22265
285	53	05								62	63	
288	07	02890	18116	57	02755	16228	52	05662	15328	62	64555	14468
575	73	02863	51327	62	61624	47268	51	22754	26465	9-	81747	20387
301	5-	05645	22367	57	05675	21228	02	64668	15468	8-	61856	24266
321	07	05594	24117	--	45309	18169	57	41455	18348	5-	51538	16368
299	24	01		5-	05		--	46109	22249	5-	62	
292	57	05555	16117	--	46309	16149	50	67243	16343	62	62456	49368
310	--	46109	20249									
614	5-	45		--	46109	24149	07	45		52	61	

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333										52	64648	50568
334	--	02646	26217	--	03537	26128						
340	5-	05647	26127	57	05653	18228	52	05546	16428	57	22883	26363
1360	03	05690	24303	03	08490	22216	5-	05517	18247	52	62555	17468
336												
350				5-	43256	20446	5-	05565	16367	62	62636	16468
368	5-	05676	26326							84	05654	24364
370	57	58685	22226							5-	61547	24367
390	07	05590	26241	5-	08438	18128				5-	62338	16368
382	57	05643	00057	05	05696	24226				5-	62735	23368
438				5-	25					8-	62648	20768
430	5-	08		5-	54		5-	21		5-	64438	51468
409	87	02754	24327	54	02753	18866	5-	64638	17568	36	02745	26415

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 2nd Dec.
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 impurity per cubic metre.
Kew ...	bc fwc m cm ff o cm bc	cm cm cff o ororR om	cm r,f or	Kew 24 hours ended 7h. Max. Time 0·5 19-20h 1st. Min. Time <0·1 0-7h 2nd.
Croydon ...			civ m r,f cr c b c r r	
Greenwich ...				
Camden Square ...			*	
Kensington ...			or	
Hampstead ...				

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h %	Humidity 9h %
						Yesterday		To-day
Kew ...	45	42	34	–	3	0·0	*	*
Croydon ...	45	40	39	Tr	3	0·2	*	*
Greenwich ...	45	42	32	–	7	0·0	84	95
Westminster ...	50	38	33	6		0·0	92	97
Regents Park ...	48	39	33	–	6		92	96
Camden Square ...	48	39	31	–	7	*	*	94
Kensington ...	49	43	31	Tr	7		96	93
Hampstead ...	44	37	30	–	7		*	96

SECRET

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

Friday 3rd December 1943 — No. 29961

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	°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)	03.8	-8	W	2	Z_o	47	65	36	6	7	3	-	2-3	2-3	2500
	Croydon ...	04.4	-6	W'N	3	Z_o	46	75	38	5	5	3	-	4-6	7-8	6000
	S. Farnborough	04.2	-14	NNW	3	b	48	65	36	7	1	7	-	Tr	1	2500
	Boscombe Down	05.4	-14	W	3	bc	47	75	39	7	3	7	-	2-3	4-6	2500
	Thorney Island	05.3	-14	WS	3	b-bc	47	75	39	7	1	4	-	1	2-3	3000
	Lympne ...	04.0	-26	WNW	3	ir$_o$	45	97	44	5	5	2	-	7-8	10	1000
	Manston ...	03.4	-42	NW	2	c/r	45	97	44	6	5	-	-	10	10	1800
2	Shoeburyness ...	04.7	-18	WNW	4	Z_o	48	75	41	6	8	5	-	4-6	4-6	3500
	Felixstowe ...	02.0	-42	SW	3	c/r	47	97	46	6	5	-	-	10	10	900
	Gorleston ...	04.1	-20	SSW	5	r+	46	92	44	6	6	-	-	10	10	600
	Mildenhall ...	03.2	-10	WNW	3	Z_o	46	83	42	6	5	-	-	7-8	9	4000
	Cranwell ...	03.1	-6	W	2	Z_o	46	75	45	5	-	3	6	0	2-3	—
3	Birmingham ...	03.1	-12	WSW	3	Z_o	45	75	38	6	7	4	1	2-3	4-6	1500
(3c)	Upper Heyford	03.3	-20	W'N	3	b-bc	46	75	38	7	1	8	-	1	2-3	3000
4	Ross-on-Wye	03.6	-22	W'S	2	b-bc	48	65	38	8	8	-	3	1	2-3	3000
5	Hartland Point	04.3	-22	NNW	4	bc/phr	47	65	38	8	3	-	-	4-6	4-6	1500
	Bristol ...	05.2	-14	WSW	3	Z_o	47	75	40	6	2	3	-	2	4-6	2500
	Portland Bill ...	06.0	-12	W	4	c-bc	50	85	46	8	2	-	-	7-8	7-8	5000
	Plymouth ...	06.5	-22	WSW	4	c	50	75	43	7	3	6	-	7-8	9	2000
	The Lizard ...	08.1	-16	WNW	5	bc/pr	48	65	36	7	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	07.8	-20	NNW	5	c/pr	48	75	41	8	8	6	3	4-6	9	1500
	Guernsey ...															
6	Pembroke ...	03.7	-14	NW	5	cbcq	47	65	38	8	2	7	1	4-6	7-8	1800
7	Holyhead (Valley)	01.4	-16	W'S	4	c	48	85	42	8	3	6	9	4-6	9	2500
	Chester (Sealand)	02.4	-10	NW'N	1	pr	47	75	40	8	8	-	-	7-8	7-8	3000
8	Manchester ...	01.7	-16	SW'S	3	c-bc	45	75	39	7	2	6	-	4-6	7-8	3500
10	Spurn Head ...	02.6	-6	WSW	2	Z_o	44	92	42	6	7	3	-	4-6	9+	1100
	Catterick (Sc.)...	01.4	-6	SW	2	c-bc	44	85	39	8	7	3	-	4-6	7-8	3000
	Tynemouth ...	00.7	0	W	3	Z_o	46	85	41	6	2	3	-	4-6	7-8	1800
11	St. Abbs Head	98.5	+2	SW	3	c	43	85	39	8	5	2	-	7-8	10	2000
	Leuchars ...	97.9	-2	-	0	c/r	43	92	41	6	3	7	-	4-6	9+	2500
12	Renfrew (Abbotsl.)	98.5	-2	SSE	2	Z_o	44	92	42	6	8	7	-	7-8	9	800
	Eskdalemuir ...	98.5	-2	SW	3	ir$_o$	40	85	37	6	5	1	-	10	10	1800
	Point of Ayre...	99.0	-12	WNW	4	bc	45	85	40	8	9	-	-	2-3	4-6	1600
13A	Tiree	99.7	-4	SSE	4	c-bc/q	46	97	45	8	3	3	-	4-6	7-8	1500
13B	Stornoway ...	95.8	+10	ESE	4	bc	48	75	41	8	8	3	9	4-6	4-6	1500
15	Dalwhinnie ...	97.5	0	SSW	2	c	41	75	35	8	5	3	-	4-6	9+	2000
	Aberdeen ...	98.8	0	SSE	4	r$_o$r$_o$	46	92	44	6	6	2	-	9	10	800
	Wick ...	99.3	+4	SSE	4	c/d	47	92	45	7	5	7	-	2-3	9	1000
16	Sumburgh ...	04.4	+18	SE	6	Z_o	48	85	44	6	5	7	-	9	10	1500
17	Blacksod Point	95.5	-34	WSW	7	pr	47	85	43	7	9	-	-	10	10	800
18	Malin Head ...	98.4	-14	SSW	4	pr	45	85	41	7	8	-	-	9+	9+	1500
	Aldergrove ...	97.7	-17	WSW	3	c/r	42	85	38	8	6	2	-	4-6	9+	900
19	Birr Castle ...	01.1	-14	SSW	2	c-bc	46	75	39	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	04.8	-28	WNW	6	bc	48	65	37	8	8	-	-	4-6	4-6	2300
	Roches Point	04.4	-26	W	4	bc/pr	47	85	42	8	3	-	3	2-3	4-6	1500

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. -mt (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 0–Force 12 (19)	Weather. (20)	°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)	03.4	0	SW	2	bf+	42	85	38	3	-	-	-	0	0	-	1	*
	Croydon ...	04.0	+2	WSW	2	bf+	41	85	37	3	-	-	-	0	0	-	0	*
	S. Farnborough	03.8	+2	SW	1	Z_o	38	92	36	6	-	4	6	Tr	Tr	2100	1	*
	Boscombe Down	04.2	-2	SW'N	2	b-bc/pr	37	97	36	7	-	7	-	2-3	2-3	-	1	*
	Thorney Island	05.0	+2	SW	1	m	42	85	38	4	-	-	-	0	0	-	1	*
	Lympne ...	04.3	+6	W	2	Z_o	39	92	37	5	-	-	-	0	0	-	1	§
	Manston ...	03.9	+6	WSW	2	Z_o	38	97	37	5	-	-	1	0	Tr	-	1	*
2	Shoeburyness ...	04.2	-2	W'N	1	bf	40	85	37	2	-	-	-	0	0	-	1	*
	Felixstowe ...	03.0	+4	W'S	3	Z_o	41	92	39	5	-	-	-	0	0	-	1	3
	Gorleston ...	01.9	0	WNW	2	Z_o	43	85	38	5	5	-	-	10	10	1000	1	3
	Mildenhall ...	02.7	-2	SW'N	2	m	39	92	37	4	5	-	-	4-6	4-6	2500	1	*
	Cranwell ...	02.3	-2	W	1	Z_o	37	97	37	5	-	-	-	0	0	-	1	*
3	Birmingham ...	02.5	0	SW	2	Z_o	40	97	39	5	-	4	9	Tr	Tr	-	1	*
(3c)	Upper Heyford	02.7	-2	SW	1	b-bc/pr	40	85	36	6	4	-	-	2-3	2-3	3000	1	*
4	Ross-on-Wye	02.8	0	SSE	1	bc	40	85	35	6	5	4	9	2-3	4-6	3000	1	*
5	Hartland Point	02.2	-8	NW	4	b-bc	46	75	37	8	3	-	-	2-3	2-3	2500	1	3
	Bristol ...	03.3	-2	SW	1	Z_o	41	85	37	6	4	6	-	4-6	4-6	3000	1	*
	Portland Bill ...	05.0	-4	W	4	bc	48	85	44	8	5	-	-	4-6	4-6	4500	1	4
	Plymouth ...	04.0	-6	W'N	3	Z_o	41	85	40	6	3	-	-	4-6	4-6	2000	1	2
	The Lizard ...	04.3	-16	WNW	6	cbc/pr	48	92	46	7	8	-	-	7-8	7-8	*	1	5
	Scilly (St. Mary's)	04.0	-18	NNW	5	bc	47	85	41	8	8	6	-	4-6	4-6	1500	1	4
	Guernsey ...																	
6	Pembroke ...	01.8	-4	NW	4	cbcq	47	75	38	8	2	4	-	4-6	7-8	1500	1	4
7	Holyhead (Valley)	00.2	-2	SW	4	cbc	45	85	40	8	2	6	-	2-3	7-8	3700	1	3
	Chester (Sealand)	01.9	-2	-	0	Z_o	39	85	35	6	5	-	-	Tr	Tr	3000	1	*
8	Manchester ...	01.8	+2	S'E	3	Z_o	40	92	37	6	4	-	-	Tr	Tr	3500	1	*
10	Spurn Head ...	02.6	0	WSW	2	Z_o	42	85	38	5	7	3	-	2-3	4-6	2500	1	2
	Catterick (Sc.)...	02.2	+6	S	1	m	32	97	32	4	-	4	-	0	Tr	-	1	*
12	Renfrew (Abbotsl.)	02.5	+10	SW	2	m	43	85	40	4	5	-	-	2-3	2-3	1800	1	3
	Eskdalemuir ...	02.0	+22	SSW	2	b-bc	39	85	36	7	4	-	-	2-3	2-3	4000	0	3
	Point of Ayre...	02.1	+30	ENE	1	ir$_o$	42	97	39	5	5	1	-	7-8	10	3600	1	*
13A	Tiree	99.0	+26	SE	4	c-bc	45	92	43	7	8	6	-	7-8	7-8	1500	1	3
13B	Stornoway ...	01.8	+42	ENE	4	b-bc	45	85	41	8	4	4	8	2-3	2-3	3500	1	2
15	Dalwhinnie ...	01.5	+30	S	2	bc	37	85	33	8	5	3	-	4-6	4-6	2000	1	*
	Aberdeen ...	02.4	+26	SE	3	c	47	85	42	7	5	2	-	7-8	10	800	1	3
	Wick ...	04.6	+36	SE	4	dd	48	97	47	6	6	2	-	7-8	10	800	1	*
16	Sumburgh ...	09.8	+38	SE'S	6	c	47	85	43	7	5	7	-	9	10	1800	1	4
17	Blacksod Point	91.4	-22	W	4	RR	46	92	44	7	6	2	-	7-8	10	800	2	4
18	Malin Head ...	95.1	+22	SW	4	ir6	44	85	40	7	9	2	-	9+	9+	1300	2	4
	Aldergrove ...	97.3	+4	SSE	2	cbc/d	41	92	39	6	5	1	-	2-3	7-8	1500	1	*
19	Birr Castle ...	97.0	-20	SSW	2	ir	43	92	41	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	99.6	-38	W'N	6	ir6	47	85	43	8	5	-	-	10	10	1900	1	5
	Roches Point	00.7	-20	W	3	bc	44	92	42	8	3	3	-	1	4-6	1500	1	4

PAST 24 HOURS.

Weather. 7h.–13h.	13h.–18h.	18h. 2nd to 1h. 3rd	1h.–7h. 3rd
2nd.. (39)	2nd... (40)	1h...3rd (41)	...3rd (42)
cqR bbcz$_o$	bz$_o$ bf	bf	oFw
bcm$_o$bcz$_o$	bcz$_o$bcm	bfw	b$_o$bcfx
crKgm$_o$r$_o$b	bb cbc	bcm$_o$fofx	bfm$_o$pf
errm$_o$bcb	bebcpr$_o$b	fg x$_o$jfm	bmjfm$_o$x
cbc	bcbcm$_o$	bmbfgmx	bcm$_o$x
cr$_o$mprrm$_o$	cir$_o$tm$_o$	bbcm$_o$wx	bcm$_o$wprc
ckb$_o$r$_o$rrm$_o$	cm$_o$bcm$_o$	bm$_o$wx	bx
crrcm$_o$	bcmobf	bF	bF
cr$_o$6cm$_o$	cm$_o$bm$_o$	bcmbmw	bcm$_o$x
cc$_o$3rr	prcz$_o$	c2$_o$zcz$_o$	bcz$_o$wxf
cr$_o$r$_o$m$_o$	cmcm$_o$bcm	bcmcxbc	cmbmbfx
bcm$_o$cm$_o$bcm$_o$	bcmobm$_o$	bcmcm	cff
bc	bcbz	bwf	fFe
cir$_o$m$_o$bcb	bccpr$_o$	bm$_o$fw	bfwFF
bbccb	bccbc	bcbb	bmxFF
	bcpr	bcclr	bc
bm$_o$ bcz$_o$	bcm$_o$pr$_o$m$_o$	bcm$_o$bm$_o$	bmxbfx
bcc	bcbc	bc	c
cpr$_o$c	cbcm$_o$	bm$_o$	bm$_o$x
cprbc	cbcpr	bcc	eprbc
cprbc	cbcpr	*	epirc
cphq$_o$p$_o$	cphr$_o$q$_o$gbc	bccp	epirc
cq	cq	bc	bc
bcc	cpr$_o$bc	bw	bfwbc
c$_o$b$_o$cbc	cbcm$_o$	bm$_o$ff	b ff o
cbcpr$_o$bcc	bcbm$_o$	bm$_o$mbfx	Fefex
cm$_o$	bcm$_o$	om$_o$r$_o$r$_o$	bm$_o$
c$_o$b$_o$cbc	bcm$_o$	cm$_o$r$_o$r$_o$m$_o$	r$_o$r$_o$fmc
br$_o$b$_o$cbcm$_o$	bcm	bcmoir	oir0q
cmrrc	cbc	bccmor$_o$	cm$_o$ir$_o$
c$_o$m$_o$rrm$_o$cm$_o$	cm$_o$c$_o$r$_o$m$_o$	cm$_o$c$_o$ir$_o$	cir$_o$c$_o$r$_o$
bccm$_o$	cm$_o$cm$_o$c		bm$_o$cfm
cpr$_o$ir$_o$	ir$_o$prc	bc	cpr$_o$r$_o$
cir$_o$c	cir$_o$c	cb	cbc
bccpr$_o$c	cpr$_o$idcm$_o$c	bc	bcbbc
cbc	bcdbc	bbccbc	b
cir$_o$c	cbc	*	bcprbc
cr$_o$r$_o$m$_o$	cr$_o$r$_o$m$_o$gc	*	cpr$_o$c
cir$_o$ci$_o$bc	cir$_o$ir$_o$dd	cid$_o$c	cid$_o$c
cir$_o$m$_o$	c	cir$_o$c	cid$_o$c
r	r	bc	b
pr	pr	pr	bc
bccirm$_o$	cir$_o$ir$_o$m$_o$m$_o$b	bc	bbcm$_o$c
c	r	*	r
pr	pr	pr	pr
pr	pr	r	r

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

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light to moderate northeast wind. Fair but with some fog at first; cloudy conditions spreading over from east with fog slow to clear inland. Visibility becoming moderate in east; cold becoming milder.
5 S.W. England 6 South Wales 7 North Wales	Moderate east to northeast wind, local showers in south at first; otherwise fair, becoming cloudy generally; poor to moderate visibility in north, good to moderate in south; mild but rather cold in north at first.
8 N.W. England 9 N. Midlands ... 10 N.E. England	Moderate east to northeast wind; cloudy: moderate visibility: rather cold.
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 easterly wind; fine but cloudy temporarily in the East with some rain in No. 16 for a short interval. Good visibility; either cold with slight frost at night.
16 Orkneys and Shetlands	As 11-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate northeast wind; cloudy with local rain at first; fine in north later; rather cold with slight frost in north to-night.

GENERAL INFERENCE

An anticyclone southeast of Iceland is moving south-southeast. Conditions will be fine in Scotland but cloudy in the East at first. There will be fog over much of England at first followed by cloudy conditions with slowly improving visibility. Mainly cold in the South becoming milder temporarily; rather cold in the North with some frost to-night.

FURTHER OUTLOOK

Fair over most of the country; cloudy in the South at first.

Forecasts issued at 1030

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

7h. Friday 3rd December 1943.

HIGH

HIGH

LOW

1024 1022 1020 1018 1016 1014 1012 1010 1008 1006

10° 5°W. 0° 5°E 10°

60° 55° 50°

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

STATION MODEL

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

Scale 1.: 5,000,000

Pe. 524/4582. Wt. 6031. 0. 4545. Gp. 345/2. 7440. 12/43

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 3rd December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Friday 3rd December 1943 — No. 29961

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	32	*	*	*	*	*	*	*	*	*
	Croydon ...	290	05·1	+10	SSW	1	bf	33	97	33	3	–	–	–	0	0	–
	S. Farnborough	226	05·1	+10	–	0	bf	27	97	27	2	–	–	–	0	0	–
	Boscombe Down	417	04·8	+6	E'N	3	bjf	35	97	34	5	–	4	–	0	Tr	–
	Thorney Island	10	04·5	+2	NE	1	zo	33	97	32	5	5	–	–	2-3	2-3	2500
	Lympne ...	341	05·6	+6	E	2	zo	37	97	36	5	–	–	–	2-3	2-3	2000
	Manston ...	154	05·3	+14	–	0	zo	34	97	34	5	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	05·2	+10	NW'W	1	m	39	97	37	4	–	–	–	0	0	–
	Gorleston ...	5	04·6	+18	WNW	2	zo	40	85	35	6	8	–	–	7-8	7-8	1200
	Mildenhall ...	15	05·1	+14	–	0	m	37	92	35	4	5	–	–	2-3	2-3	3000
	Cranwell ...	203	04·9	+4	W	2	m	39	92	38	4	5	–	–	10	10	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	04·8	+14	–	0	bF+	29	97	29	1	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	01·7	0	S	3	b-bc	40	55	35	8	1	–	–	2-3	2-3	2500
	Bristol ...	209	04·5	+10	–	0	zo	32	97	32	6	–	4	–	0	Tr	–
	Portland Bill ...	32	04·8	+8	NW	3	bc	42	92	40	8	5	–	–	4-6	4-6	4500
	Plymouth ...	86	02·6	–2	ESE	2	zo	35	97	35	6	–	–	–	0	0	–
	The Lizard ...	240	02·2	–6	N	4	c-bc	45	85	40	7	2	–	–	7-8	7-8	1500
	Scilly (St. Mary's)	163	00·8	–16	SE'S	3	c/pr	44	97	42	7	8	–	–	9	9+	1500
	Guernsey ...	175															
6	Pembroke	142	01·4	+2	E'S	4	bc	43	97	41	7	8	–	–	4-6	4-6	1500
7	Holyhead (Valley)	32	04·6	+24	E	3	b	38	97	38	8	–	–	–	0	0	–
	Chester (Sealand)	16	05·2	+22	–	0	bf+	30	97	30	1	–	–	–	0	0	–
8	Manchester ...	230	05·5	+16	NNE	1	bf+	32	97	31	3	–	–	–	0	0	–
10	Spurn Head ...	29	04·5	+12	NW'N	3	r-r	40	97	39	4	5	–	–	10	10	800
	Catterick (Sc.)...	192	05·6	+6	NW	3	r-r	40	97	40	4	5	2	–	7-8	10	1000
	Tynemouth ...	108	07·2	+6	E	6	ir	46	97	45	7	6	–	–	10	10	1500
11	St. Abbs Head	280	08·8	+28	E	4	c/r	46	92	44	7	5	–	–	9+	9+	2500
	Leuchars ...	31	10·3	+30	NNE	2	ir	43	97	43	5	5	2	–	7-8	10	1900
12	Renfrew (Abbotsl.)	19	10·7	+38	–	0	m	37	92	35	4	5	–	–	Tr	Tr	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	06·2	+34	ESE	3	b-bc	46	85	42	7	5	–	–	2-3	2-3	2500
13A	Tiree	44	10·5	+40	NE	1	b-bc	40	92	38	7	5	–	–	2-3	2-3	2500
13B	Stornoway ...	12	11·6	+38	E	3	b	46	85	42	8	5	–	–	Tr	Tr	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	12·7	+38	ESE	3	zo	46	92	44	5	5	–	–	10	10	1300
	Wick ...	114	14·0	+38	SE	4	c	48	92	46	7	5	–	–	10	10	1100
16	Sumburgh ..	15	17·0	+26	ESE	5	c	46	85	41	7	5	–	–	10	10	1700
17	Blacksod Point	18	08·8	+82	E'N	6	b-bc	46	85	42	7	9	–	–	2-3	2-3	1500
18	Malin Head ...	84	07·7	+50	E	4	bc	47	75	40	8	2	–	–	4-6	4-6	1500
	Aldergrove ...	294	07·3	+50	E'S	2	bc	41	92	39	7	5	–	–	4-6	4-6	3500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	86·6	+22	NE	3	bc/pr	44	92	42	8	8	–	–	2-3	2-3	2500
	Roches Point	22	87·0	+6	SW	4	rr	47	97	46	7	6	2	–	4-6	10	800

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
09·2	+24	ENE	2	F	36	97	36	1	–	–	–	10	10	<150	1	*
09·5	+26	–	0	F+	33	97	33	0	–	–	–	10	10	<150	1	*
09·2	+22	–	0	F	29	97	29	1	–	–	–	10	10	<150	3	*
08·7	+26	ENE	3	zo	33	97	33	6	–	3	3	0	2-3	–	1	*
07·8	+22	NE'N	2	r-r	37	97	36	6	5	–	–	9+	9+	2000	1	*
09·2	+22	E'S	2	m	40	92	38	4	3	–	–	4-6	4-6	1000	1	*
09·1	+22	E	1	zo	42	92	39	6	1	3	–	1	2-3	2200	1	5
09·6	+20	–	0	bf-	32	92	30	2	–	–	–	0	0	–	3	*
09·6	+22	NNE	3	zo	36	92	41	5	–	7	1	0	2-3	8200	1	2
09·3	+22	NNW	2	bcf	35	92	33	2	5	–	–	4-6	4-6	600	3	2
09·8	+22	SE	1	b-bcf+	33	97	33	3	5	–	–	2-3	2-3	3000	1	*
11·0	+36	ENE	1	F+	32	97	32	2	–	–	–	10	10	<150	0	*
10·2	+26	ENE	1	F	34	97	33	1	–	–	–	10	10	<150	1	*
09·4	+30	ENE	1	bF+	30	97	30	1	–	–	–	0	0	–	1	*
09·5	+26	NNE	1	F	31	97	30	1	–	–	–	10	10	<150	1	*
06·1	+24	E	4	b-bc	41	55	26	8	1	–	–	2-3	2-3	4000	1	3
10·2	+30	–	0	F-	30	92	29	0	–	–	–	10	10	<150	1	*
06·0	+6	N	4	c-bc	43	92	41	8	5	–	–	7-8	7-8	4000	1	4
06·1	+24	NE	2	zo	39	92	37	6	5	–	–	4-6	4-6	2200	1	1
02·8	+16	E	4	bc				7	2	–	–	4-6	4-6	*	1	4
03·4	+26	SE'E	4	bc	44	92	42	8	8	–	–	4-6	4-6	1500	1	4
08·9	+20	E'N	4	b-bc	39	85	36	8	–	4	–	0	2-3	–	0	3
10·1	+30	NE	1	zo	42	97	42	6	5	–	–	1	1	4000	1	2
10·1	+30	–	0	CF-	33	97	33	1	–	1	–	0	10	–	1	*
10·3	+30	–	0	cf	35	97	35	2	5	–	–	9+	9+	3000	1	*
10·7	+44	E	3	zo	42	97	41	5	7	–	–	2-3	2-3	2500	1	2
12·5	+42	NE	4	ir	44	92	42	4	5	2	–	7-8	10	1000	1	*
15·0	+52	E	6	o q	46	85	41	7	6	–	–	10	10	1500	1	4
15·7	+36	ESE	5	c	46	75	40	7	5	–	–	10	10	1500	1	4
17·9	+34	ESE	4	c/r	45	92	43	5	5	2	–	7-8	10	2000	1	*
17·0	+40	NE'E	3	m/f	46	85	42	4	5	–	–	10	10	1800	1	*
15·6	+40	NNE	4	r-r	41	92	38	5	–	2	–	10	10	700	1	*
11·2	+30	E	6	bc	48	92	45	8	5	–	–	4-6	4-6	2500	0	3
17·9	+54	ENE	1	b-bc	40	92	38	8	4	–	–	2-3	2-3	3000	1	0
18·6	+32	ESE	2	b	45	92	43	8	–	4	–	0	Tr	–	0	2
17·5	+34	N	1	c-bc	35	97	35	7	5	–	–	7-8	7-8	2000	1	*
20·0	+36	ESE	3	c-bc	45	85	39	7	5	–	–	7-8	7-8	2500	1	
20·9	+30	SE	2	c	47	92	44	8	5	2	–	3	10	1900	1	*
21·3	+18	SSE	4	c	45	92	42	8	5	–	–	10	10	4000	1	3
15·1	+46	NE	3	b	45	92	43	8	8	–	–	1	1	4000	2	3
16·0	+38	ENE	4	c	47	75	40	8	5	–	–	9	9	1500	2	4
14·0	+34	NE'N	3	c	45	97	41	7	5	–	–	10	10	3100	1	*
11·3	+38	NW	2	b-bc	38	92	41	8	5	–	–	2-3	2-3	2500	1	*
10·5	+66	NE'E	4	b	42	85	38	8	5	–	–	Tr	Tr	2500	1	3
08·9	+54	ENE	4	b-bc	43	92	41	8	5	–	–	2-3	2-3	2500	1	4

PAST 24 HOURS.

State of Ground. 0–9 (31)	Sea. 0–9 (32)	TEMPERATURE. Max. Day 7h–18h °F. (33)	TEMPERATURE. Min. Night 18h–7h °F (34)	TEMPERATURE. Min. on Grass °F. (35)	RAINFALL. Day 7h–18h mm. (36)	RAINFALL. Night 18h–7h mm. (37)	SUNSHINE 2nd Hrs. (38)
1	*	48	30	23	6	Tr	3·7
1	*	48	29	25	6	0·2	2·9
3	*	49	25	19	3	Tr	5·0
1	*	48	31	26	1	–	4·9
1	*	51	31	26	4	1	*
1	*	47	35	25	7	0·4	0·0
1	*	48	31	26	4	–	0·0
3	*	48	28	26	2	–	1·1
1	2	46	34	26	5	0·1	
1	2	47	32	30	8	0·2	0·0
1	*	47	33	22	6	Tr	1·1
0	*	46	31	29	1	–	2·4
1	*	46	35	19	–	Tr	5·2
1	*	46	27	25	2	1	*
1	*	49	30	21	–	–	4·6
1	3	48	38	36	1	3	2·4
1	*	48	27	21	0·5	Tr	4·6
1	4	50	41	*	–	–	*
1	1	51	34	27	3	–	3·7
1	4	49		*	1	0·5	2·7
1	4	49	43	*	3	4	2·6
0	3	49	36	*	Tr	–	1·3
1	2	48	36	32	Tr	0·3	*
1	*	49	28	22	0·3	Tr	5·3
1	*	47	32	23	0·3	–	*
1	2	45	39	*	1	1	1·8
1	*	47	29	22	–	0·5	2·8
1	4	46	43	41	0·5	2	*
1	4	43	43	41	2	2	*
1	*	44	38	35	3	0·3	
1	*	48	34	26	Tr	–	0·5
1	*	41	32	28	0·6	0·6	0·0
0	3	47	39	*	Tr	–	1·7
1	0	47	37	33	4	–	0·0
0	2	45	43	35	8	–	3·3
1	*	42	29	23	1	0·4	1·7
1		47	45	40	3	1	0·0
1	*	48	46	44	0·3	Tr	*
1	3	48	45	43	0·1	Tr	0·0
2	3	48	46	*	5	1	*
2	4	45	42		3	0·3	0·0
1	*	43	37	30	1	Tr	0·0
1	*	46	35	32	0·4	2	1·0
1	3	48	42	38	2	8	1·7
1	4	48	42	*	0·1	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 2nd Dec. — III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd Dec. — $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN
109	57	51744	45558	53	01654	44624	5-	02655	11426	52	02664	13225
115	24	02951	08226	34	02854	08426	24	02854	08226	57	02844	08327
203												
206				5-	02647	08327	5-	02868	28128	57	02755	04227
210	5-	02944	10227	57	05645	08268	57	21755	10258	57	21754	10155
219	2-	02855	11415	26	01852	10384				50	01752	05102
230	8-	25816	12786	5-	22755	08765	00	00000	10100	57	61865	08228
246	57	62643	00068	53	05554	00065	52	05547	08468	52	02755	07368
260	57	02		5-	05		5-	52		5-	61	
277				9-	02745	00088	04	01750	07382	51	02746	05418
279	84	82645	15287	83	03654	16185	52	05665	00018	52	05655	35628
285	23	05								5-	54	
288	24	01863	18313	07	01790	17111	52	62445	15168	62	62545	39568
575	97	81734	18188	52	62755	16268	04	01790	02321	50	01763	02213
301	36	81845	20385	06	08490	00013	40	05553	04203	02	64528	00068
321	20	05663	22364	50	08463	00013	00	45250	32240	--	48109	00069
290	50	05		80	05		5-	62		50	02	
292	57	05645	20265	50	47352	00012				57	05654	04466
310				20	02626					90	02	
614	4	05		00	47		5-	45		--	47	

13h. G.M.T. 2nd Dec. — III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd Dec. — $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN
333	20	01743	23414	20	01733	20213	40	01761	24111	07	05690	00025
334	--	02743	26315	--	00790	00001				--	04446	00017
340	84	02854	22314	04	01490	18112	00	47390	02200	--	46009	00049
136	57	61662	24267				5-	43268	22248	07	47390	10141
336	80	25										
350	13	01793	24263	04	05691	18101	00	08490	18100	00	47090	10140
368	36	25854	24385	27	02754	24185				00	43390	06140
379	13	01764	22304	53	25653	20283	00	08490	00000			
390	17	05562	26324	07	08490	20113	--	48009	00049	--	48009	00049
382	13	01751	24362	04	05690	00011	00	47390	00000	00	47190	00040
438	80	02		80	01					84	81	
430	17	01		00	05690	24120	04	05		5-	22	
409	36	25854	24585	06	81853	26485	36	01754	12384	34	01762	08402

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

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

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each: by post 1½d. 2/6 per month; 8/6 per quarter; 25/- per year.

LONDON OBSERVATIONS

For the 24 hours ending morning of 3rd Dec.
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 ...	cqRbbc	bzobf	bfoFw	Kew 24 hours ended 7h. Max. Time
Croydon ...	bcm.bc	bczobam	obfwfx	0·8 4hr 3rd
Greenwich ...	rcb	bm	bmfleFx	Min. Time
Camden Square ...	rc	b	*	0·1 7-9h 2nd
Kensington ...	orbc	bc	*	
Hampstead ...	orbc	bc	om	

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 ...	48	30	23	6	Tr	3·7	*	*
Croydon ...	48	29	25	6	0·2	2·9	*	*
Greenwich ...	48	32	28	2	Tr	1·3	69	99
Westminster ...	48	33	28	1			84	97
Regents Park ...	48	33	23	1	–		92	95
Camden Square ...	47	32	25	0·5	–	*	*	98
Kensington ...	48	33	21	0·5	0·1		86	96
Hampstead ...	47	32	26	1	–		*	99

SECRET

Page 1

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

Saturday 4th December 1943 — No. 29962

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	13·5	+4	NE'N	3	Zo	45	75	38	5	5	–	–	7-8	7-8	4000
	Croydon ...	13·5	+6	E	1	bF-	39	97	38	1	5	–	–	1	1	4000
	S. Farnborough	13·7	+18	–	0	cF-	38	97	38	1	5	7	–	9	9+	100
	Boscombe Down	13·6	+18	ENE	3	b-bcf-	41	92	39	3	2	–	1	2-3	2-3	3500
	Thorney Island	12·5	+16	NE'N	3	Zo	44	97	43	6	8	3	3	4-6	4-6	3000
	Lympne ...	12·8	+6	NE'N	3	Zo	43	92	40	5	5	4	–	4-6	9	4000
	Manston ...	11·4	+6	ENE	2	m/c	43	85	40	4	2	3	–	4-6	9	1500
2	Shoeburyness ...	13·5	+10	NNE	1	m	41	92	39	4	5	–	–	10	10	6900
	Felixstowe ...	13·4	+10	N	2	Zo	42	92	40	5	8	–	–	4-6	10	2000
	Gorleston ...	13·1	+14	ENE	5	c/o	44	92	41	6	8	–	–	10	10	800
	Mildenhall ...	14·1	+6	–	0	of	34	97	33	3	5	–	–	10	10	1800
	Cranwell ...	16·5	+18	E'N	2	o/f	43	97	43	6	5	–	–	10	10	500
3	Birmingham ...	15·9	+10	NNE	2	F	37	97	37	1	–	–	–	10	10	<150
6	Upper Heyford	14·4	+10	N	2	f-	35	97	35	2	5	–	–	9+	9+	4000
4	Ross-on-Wye	15·2	+16	NE	3	of-	37	97	36	2	5	–	–	10	10	300
5	Hartland Point	12·0	+20	NE	4	bc	43	85	38	7	1	4	5	1	4-6	3000
	Bristol ...	14·8	+22	NE	1	F+	34	97	34	1	–	–	–	10	10	<150
	Portland Bill ...	10·9	+16	E	4	cbc	45	85	40	8	2	–	–	7-8	7-8	5000
	Plymouth ...	11·1	+16	ENE	3	bc	45	85	40	7	2	3	–	2-3	4-6	2500
	The Lizard ...	09·4	+18	E	5	cbc	48	85	43	8	8	6	–	7-8	7-8	1500
	Scilly (St. Mary's)	09·4	+20	ENE	5	bc	48	75	42	8	8	6	–	2-3	4-6	1200
	Guernsey ...															
6	Pembroke ...	14·4	+26	E'N	4	bc	44	86	39	7	2	–	4	4-6	4-6	1500
7	Holyhead (Valley)	16·9	+24	ENE	4	Zo	46	85	42	6	–	–	–	0	0	–
	Chester (Sealand)	16·7	+26	–	0	bcf	37	85	33	3	5	–	–	4-6	4-6	7000
8	Manchester ...	17·1	+22	NE	3	of-	43	85	38	3	5	–	–	10	10	2000
10	Spurn Head ...	16·6	+22	E	7	oq	44	75	38	7	5	–	–	10	10	1500
	Catterick (Sc.) ...	19·6	+4	ENE	4	Zo	44	85	40	6	5	7	–	4-6	10	1200
	Tynemouth ...	21·3	+10	E	5	c	45	75	39	7	8	–	–	9+	9+	2200
11	St. Abbs Head	21·7	+24	ENE	3	c	44	55	31	8	5	2	–	7-8	10	2000
	Leuchars ...	22·9	+14	E	3	c	45	65	35	7	5	–	–	2-3	9+	2500
12	Renfrew (Abbotsl.)	22·1	+34	NE	2	Zo	46	75	39	6	5	7	–	7-8	9+	1500
	Eskdalemuir ...	21·4	+12	NNE	3	i/o	41	85	37	8	5	1	–	9	10	1500
	Point of Ayre ...	18·4	+28	E'S	5	c	47	85	43	7	5	–	–	9+	9+	2500
13A	Tiree	22·9	+22	SE	1	b-bc	48	85	43	8	–	4	–	0	2-3	–
13B	Stornoway ...	23·2	+18	–	0	Zo	48	85	44	7	5	–	6	Tr	2-3	3500
15	Dalwhinnie ...		+18	W	1	cbc	40	92	38	7	8	4	–	4-6	7-8	2000
	Aberdeen ...	23·5	+14	ESE	2	c	44	65	33	8	5	–	6	4-6	9+	2500
	Wick ...	23·9	+10	S	3	c	46	85	41	8	5	–	–	9+	9+	1000
16	Sumburgh ...	22·6	+2	SW'S	5	i/o	47	85	43	8	5	7	–	9	10	2000
17	Blacksod Point	20·5	+18	NE'E	4	b-bc	49	85	45	7	5	4	–	1	2-3	2500
18	Malin Head ...	21·0	+22	ENE	5	b-bc	49	75	44	8	2	–	1	2-3	2-3	2500
	Aldergrove ...	19·9	+22	NE'E	4	c	46	85	41	8	8	–	–	9+	9+	2000
19	Birr Castle ...	16·2	+18	NNE	2	c	46	92	44	7	8	7	–	7-8	9	1500
20	Valentia Obsy.	17·0	+16	ENE	3	c	44	85	40	8	5	–	–	10	10	1500
	Roches Point	15·2	+18	NNE	3	b-bc	46	92	44	8	5	–	–	2-3	2-3	2500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. (21)	Humid. % (22)	°Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
16·2	+2	NE'N	4	id	43	92	41	5	5	–	–	10	10	2500	1	*
16·0	+18	NNE	4	+f	42	97	41	2	–	–	–	10	10	<150	1	*
16·1	+22	N	2	ir	41	92	39	3	5	–	–	10	10	500	1	*
16·4	+22	NE	3	m	39	97	38	4	5	–	–	10	10	1000	0	*
15·2	+18	NE'N	4	m	41	92	39	4	5	3	–	9+	10	3000	1	*
14·6	+18	NE'N	4	+o+o	43	97	42	4	5	2	–	9	10	1600	1	B
14·9	+22	E'N	3	id	41	92	42	4	6	2	–	4-6	9+	1000	5	*
15·7	+26	N'E	3	do	41	92	42	4	5	–	–	10	10	1800	1	*
15·6	+18	NE'N	5	Zo	41	85	40	5	5	–	–	10	10	3000	1	2
16·5	+26	NE	5	cq	43	75	36	7	5	–	–	9+	9+	4500	1	B
17·8	+26	NE'E	4	c-bc	41	85	37	7	5	–	–	7-8	7-8	3000	1	*
20·1	+14	E'N	3	Zo	40	85	36	6	5	–	–	10	10	4500	1	*
19·1	+20	S	3	m	40	92	38	4	5	–	–	10	10	800	1	*
17·4	+22	NE	5	c/d	40	87	39	4	5	–	–	10	10	700	1	*
17·6	+14	NE'N	4	Zo	42	92	40	5	5	–	–	10	10	600	1	*
16·0	+28	NE	4	b	42	75	36	7	1	–	–	Tr	Tr	4000	5	3
17·2	+14	N	3	oF-	37	97	37	1	5	–	–	10	10	300	1	*
24·3	+18	ENE	4	c-bc	42	85	37	7	5	–	–	7-8	7-8	4500	1	4
15·4	+32	ENE	3	Z	42	88	38	4	5	–	–	Tr	Tr	2500	1	2
18·1	+20	NE	5	Zo	46	85	42	6	8	6	–	4-6	4-6	2500	0	4
13·1	+26	ENE	6	bc	48	75	41	8	8	–	–	4-6	4-6	1200	1	5
18·9	+8	NE	4	b-bc	41	92	38	7	–	7	–	0	2-3	–	0	
20·8	+22	ENE	3	m	45	85	41	4	5	3	–	4-6	9	4000	0	2
21·3	+30	NE'E	3	cf-	41	92	38	8	5	–	–	10	10	2200	0	*
21·2	+34	NE	4	c/r	41	85	37	5	5	–	–	9	9	2000	2	*
20·3	+10	NE	6	c-bc	43	65	33	7	2	4	–	4-6	7-8	1500	0	5
23·3	+24	NNE	2	id	40	75	34	6	5	2	–	9	10	3100	1	*
23·5	+10	E	4	c	45	65	32	7	5	–	–	9+	9+	2500	1	4
23·8	+6	–	0	c	44	65	31	7	5	7	–	7-8	9	2000	0	3
23·3	+16	N	1	Zo	41	85	36	5	5	1	–	7-8	7-8	3000	1	*
25·4	+18	NE	1	Zo	40	85	34	5	–	3	–	0	9	7500	1	*
21·6	+18	ENE	2	c-bc	35	85	31	7	5	3	–	2-3	7-8	2100	1	*
22·6	+24	E'S	5	c	45	85	40	7	5	–	–	9+	9+	1800	0	5
25·3	+22	–	0	b	43	92	40	7	–	4	–	0	Tr	9800	1	1
25·1	+16	–	0	fg	37	97	36	7	5	–	–	Tr	Tr	3500	1	
	+18	–	0	c	35	92	32	7	5	1	–	7-8	10	2500	1	*
25·8	+14	NW'N	2	b-bc	35	92	32	3	–	–	1	1	2-3	4000	1	*
25·2	+10	WSW	1	bc	41	92	39	8	–	3	–	0	4-6	8000	1	*
23·6	+14	N'E	2	do	45	92	43	8	6	2	–	9+	10	1200	1	3
23·8	+26	NE'E	3	b-bc	46	92	42	7	5	–	–	2-3	2-3	2500	1	3
24·4	+26	E	4	bc	47	75	39	8	2	–	1	4-6	4-6	2500	2	4
24·0	+24	NE	2	c	41	85	40	7	8	–	–	9+	9+	2500	1	*
20·7	+28	NNE	2	c-bc	41	92	42	8	8	–	–	7-8	7-8	1500	1	*
20·8	+10	SE'E	3	b-bc	45	85	41	8	5	–	–	2-3	2-3	2500	1	2
20·0	+34	NE	3	b	43	92	41	8	2	–	–	1	1	2500	1	4

PAST 24 HOURS.

Weather. 7h.–13h. 3rd (39)	Weather. 13h.–18h. 3rd (40)	Weather. 18h. 3rd to 1h. 4th (41)	Weather. 1h.–7h. 4th. (42)
ofcmow	frrod	cdomoc	cc2o
ofdodobf	bfofofro	cmodo	cmairacm
ofecf	ofcfmoiro	ofirdobc	emoidomo
bcmoxbcf	bcfbczcm	eidombc	bcc
bepfmo	bmacfmo	cmidbc	bcm
bccmo	cprmrrm	crpdofc	cmido.cm
cifom	cbfbfrg	cdofom	cmo
fcm	cfrm	cd.d.cm	cmo
bccmo	cmoiro	cmoczmo	czmobc
cpfofofc	cq	cq	bcq
cifomcfofo	cfcfcirbc	bccbbcc	cbcbx
cmo	cmo	bcmo	bmo
Ff	Fromm	ombc	mbcbxf
bFxoF	FFfdocm	cfcfomoc	cbcmo
FFof	ofdofom		bbc
bc	bcb	cbc	bc
ofbofof	oFofofgo	oFidofc	bcmocmo
c	cc	orrc	bcb
prcbc	bcbcmo	bcmoidc	cmob
bcc	cprbc	bccz	cbcz
bccpbc	cbc	bccfbc	bcc
bc	bc	bc	bcq
bcb	bmbbbcm	cmobmo	bccmoc
c,bff	bccff	bccmom	cbcmo
cffbmof	ofcmbiro	cmo2mo	bccomo
cq	c	b	bc
cm	cmbprbc	cmo	cmoirobc
pqc	c	c	bbc
cfcc	c	bc	bcbcmo
cmoc	ccmo	cbcbcmo	bmoxcmo
cmobcmoc	cbccmo	cmobmbf	bcfombf
rqprsiroc	ciroc	cbc	bcb
bcc	c	cbcc	bcb
bcbbc	bcc w	bcwbc	cdodomoc
bcfgbc	bcfg	bcfgbcm	bcmo,cw
c	co		obo
cprcc	cbczffo	bcfbcgw	bcczx
cbcc	cbcbbcz	bcirocidoc	c
cdorbc	crodoc	eido	cido
bc	bc	b	b
bc	bc	bc	c
	c	cbc	bcbmox
r	c	b	bc
bc	bc	b	c
br	b	b	c

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

Districts	
1 S.E. England	Moderate northeast wind becoming variable, light; fair or fine with little or well broken cloud; moderate or good visibility but some fog developing later tonight. Cold with slight frost at night.
2 E. England ...	
3 E. Midlands ...	
4 (illegible) Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light northwest to west wind becoming moderate west or southwest. Cloudy; local rain mainly in the North; mainly fair in the South with well broken cloud at first. Moderate or good visibility; cold becoming mild.
12 S.W. Scotland & Isle of Man	
13A W. Scotland ...	
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	As 11-15
17 N.W. Ireland	Moderate northeast wind becoming light variable; fair with variable cloud cover. Good visibility; cold becoming mild in the North: slight frost in the South tonight.
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

An anticyclone centred off North Ireland is moving southeast; it will be fine in the South and cloudy with local rain in the North. Cold becoming mild in the North; frost at night in England and Wales.

FURTHER OUTLOOK

Fine in the South, cloudy in the North with some rain later.

Forecasts issued at 1300

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

7h. SATURDAY 4th DECEMBER 1943.

10° 5°W. 0° 5°E. 10°

60° 55° 50°

1028 1024 1026 1022 1020 1018 1016

LOW HIGH LOW

STATION MODEL

High Cloud

Medium cloud — Total Amount of cloud

Temperature °F. — Wind

Present weather — Barometer mb.

Visibility — Bar. change in past 3 hours in mbs.

Dew Point °F — Weather in past hour

Low cloud — Past weather

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

Scale 1.: 5,000,000

Mb In

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

Pr. 524/4582 W. 6091. D. 4545. 9m. 3/48/2. 7440 12/43

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Saturday 4th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Saturday 4th December 1943

No. 29962

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

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	19.0	+6	NE	3	m/d	40	85	36	4	5	-	-	7-8	7-8	1100
	S. Farnborough	226	19.1	+8	N	2	z0	39	85	34	6	5	-	-	10	10	1600
	Boscombe Down	417	18.9	+4	NE'N	3	bc	37	85	32	7	5	-	-	4-6	4-6	5500
	Thorney Island	10	17.1	+2	NNE	4	z0	40	85	35	5	5	-	-	2-3	2-3	2500
	Lympne	341	17.0	+2	ENE	5	m	41	92	39	1	5	-	-	10	10	1400
	Manston	154	17.4	+6	ENE	4	z0	42	85	39	5	5	-	-	2-3	10	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	10	18.7	+2	NE'N	5	z0	43	75	37	5	5	-	-	10	10	1700
	Gorleston	5	19.5	+2	ENE	5	bc	42	65	32	7	8	-	-	4-6	4-6	1500
	Mildenhall	15	20.4	+4	NNE	3	c	36	85	33	7	5	-	-	9	9	4800
	Cranwell	203	22.3	+4	NE	2	z0	35	85	31	6	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20.4	+4	NNE	3	z0	37	85	32	6	5	-	-	10	10	3800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19.3	+12	NE	5	bc	42	92	40	7	4	-	-	4-6	4-6	2500
	Bristol	209	20.5	+6	NNE	3	m	38	85	33	4	5	-	-	9+	9+	2500
	Portland Bill	32	26.3	+2	N	4	bc	40	92	38	7	5	-	-	4-6	4-6	4500
	Plymouth	86	18.5	+8	ENE	3	bc	42	85	37	7	5	4	-	4-6	4-6	1500
	The Lizard	240	17.0	+8	NE	6	z0	44	85	39	5	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	17.5	+12	ENE	5	bc	45	85	41	6	5	-	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	21.6	+4	ENE	4	b-bc	41	85	36	7	2	-	-	4-6	4-6	1500
7	Holyhead (Valley)	32	24.2	+10	NNE	1	z0	40	85	35	6	4	-	-	0	2-3	8000
	Chester (Sealand)	16	23.6	+2	NNE	2	m	40	85	35	4	5	-	-	10	10	4000
8	Manchester	230	23.5	+6	NE	3	z0	39	85	34	5	5	-	-	4-6	4-6	3500
10	Spurn Head	29	22.3	0	E	6	b-bc	43	65	33	7	1	-	-	2-3	2-3	2500
	Catterick (Sc)	192	25.1	+2	NNE	1	z0	37	97	37	5	5	3	-	9	9+	5000
	Tynemouth	108	26.6	+8	E	3	c	44	65	34	7	5	-	-	9+	9+	2500
11	St. Abbs Head	280	25.4	+16	-	0	b-bc	43	65	33	7	5	-	-	2-3	2-3	2500
	Leuchars	31	26.6	0	-	0	z0	33	97	32	5	5	-	-	1	1	3000
12	Renfrew (Abbots I.)	19	27.0	-2	-	0	bcf	35	92	33	3	5	-	6	2-3	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	24.5	+8	E'S	3	c	44	75	37	7	5	-	-	9+	9+	3000
13A	Tiree	44	27.3	+6	-	0	c-bc	43	97	42	7	5	-	-	7-8	7-8	2500
13B	Stornoway	12	26.1	0	-	0	z0	37	97	35	6	5	-	-	1	1	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	26.2	-6	E	1	z0	31	92	29	6	-	-	5	0	4-6	-
	Wick	114	25.4	-2	W	1	c	42	85	42	8	5	7	-	9+	9+	1000
16	Sumburgh	15	23.9	-2	NW	2	id0	43	92	40	8	5	2	-	9+	10	2500
17	Blacksod Point	18	26.4	+6	ENE	2	b	39	97	39	7	-	-	-	0	0	-
18	Malin Head	84	26.4	+2	S	1	c	40	85	40	8	5	-	-	9	9	2500
	Aldergrove	294	25.6	+6	NE'N	1	b-bc	37	85	34	7	5	-	-	2-3	2-3	3500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24.5	+12	NE	1	b	38	92	36	8	-	-	-	0	0	-
	Roches Point	22	23.0	+6	NNE	3	b	40	92	38	8	5	-	-	Tr	Tr	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F (21)	Humid. % (22)	Dew Point °F (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	20.2	+10	NE	4	z0	40	75	32	6	5	-	-	10	10	2800	1	*
	Croydon	20.0	+6	NNE	2	m/r	40	85	35	4	5	-	-	10	10	2500	1	*
	S. Farnborough	20.3	+10	N'W	2	c/d	40	75	34	6	5	-	-	10	10	200	1	*
	Boscombe Down	20.0	+6	NE	3	c	37	85	33	7	5	-	-	9+	9+	3500	0	*
	Thorney Island	19.0	+20	NNE	3	z0	41	85	36	6	5	-	-	7-8	7-8	3000	1	*
	Lympne	18.8	+8	ENE	4	z0	40	85	36	5	5	2	-	9+	10	1600	1	§5
	Manston	19.3	+6	E'N	4	z0	40	92	37	6	2	-	-	9+	9+	1900	1	*
2	Shoeburyness	20.2	+8	NNE	4	z0	41	85	36	6	5	-	-	9+	9+	2500	1	*
	Felixstowe	20.8	+16	NE	6	b-bc	42	65	32	7	5	-	-	2-3	2-3	2500	0	3
	Gorleston	20.5	+6	ENE	6	b-bc	42	55	28	7	1	-	-	2-3	2-3	1500	0	5
	Mildenhall	22.2	+10	NNE	3	b	33	85	31	7	-	-	-	0	0	-	1	*
	Cranwell	24.0	+10	NNE	3	z0	35	92	32	6	-	-	-	0	0	-	0	*
3	Birmingham	23.5	+6	NE	2	bf	34	92	32	3	-	-	-	0	0	-	1	
	Upper Heyford	21.8	+10	NE	3	z0	34	92	31	6	5	-	-	9	9	-	1	*
4	Ross-on-Wye	22.3	+10	NE	3	b-bc	35	85	29	6	5	-	-	2-3	2-3	3000	1	*
5	Hartland Point	19.6	+8	NE	5	bc	40	75	32	7	5	-	-	4-6	4-6	2500	1	4
	Bristol	21.5	+10	NNE	2	z0	33	85	37	5	5	-	-	9+	9+	3500	1	*
	Portland Bill	17.8	+16	N	4	bc	40	92	42	7	5	-	-	4-6	4-6	5000	1	4
	Plymouth	19.0	+2	NE'E	4	b	39	75	31	7	-	7	-	0	1	-	1	3
	The Lizard	17.9	+2	NE	5	z0	38	85	33	5	5	-	-	7-8	7-8	1500	0	4
	Scilly (St. Mary's)	18.2	-2	NE'E	5	c	44	85	38	7	5	-	-	9+	9+	1800	1	5
	Guernsey																	
6	Pembroke	23.0	+4	NE	4	c-bcq	38	75	32	7	2	-	-	7-8	7-8	1500	0	3
7	Holyhead (Valley)	25.2	+8	ENE	3	c-bc	42	85	37	7	8	4	-	7-8	7-8	5700	1	2
	Chester (Sealand)	25.0	+8	NEN	1	bf+	35	92	33	3	5	-	-	Tr	Tr	3600	1	*
8	Manchester	25.2	+12	N'E	1	m	33	97	32	4	5	4	-	1	1	4000	1	*
10	Spurn Head	24.1	+2	E	4	b-bc	43	75	34	8	7	-	-	2-3	2-3	2500	0	4
	Catterick (Sc)	26.5	+10	NNW	3	m	33	92	31	4	5	4	-	1	2-3	5000	1	*
	Tynemouth	27.2	+4	E	3	b-bc	38	85	33	7	2	-	-	2-3	2-3	2500	1	3
11	St. Abbs Head	26.1	0	W	2	z0	40	75	34	6	4	4	-	2-3	4-6	2500	0	3
	Leuchars	26.4	-8	WSW	2	z0	34	92	32	6	5	7	-	2-3	9+	4000	1	*
12	Renfrew (Abbots I.)	27.5	0	-	0	bf-	29	97	28	3	5	-	-	1	1	3500	1	*
	Eskdalemuir	27.7	0	-	0	b	28	85	25	8	-	-	-	0	0	-	3	*
	Point of Ayre	26.2	+6	E	4	b	43	75	37	7	-	-	-	0	0	-	1	3
13A	Tiree	27.2	0	W	1	c/d	44	97	44	7	5	2	-	7-8	10	2000	1	1
13B	Stornoway	25.6	-2	-	0	bc	41	92	39	8	5	4	6	1	4-6	2500	1	0
15	Dalwhinnie	27.0	0	-	0	c	29	92	27	7	5	1	-	2-3	10	2500	3	*
	Aberdeen †	25.5	-6	NW'W	3	m	36	92	33	4	5	7	-	4-6	9+	4000	3	
	Wick	15.3	-4	-	0	c	42	97	42	7	5	2	-	10	10	2000	1	*
16	Sumburgh	23.5	-2	WNW	2	id0	43	85	39	8	5	2	-	1	10	2500	1	2
17	Blacksod Point	27.1	+2	E'N	1	b	42	92	40	7	5	-	-	Tr	Tr	4000	1	2
18	Malin Head	27.1	+4	S'W	1	bc	37	85	33	8	5	-	-	4-6	4-6	2500	2	2
	Aldergrove	27.1	+2	-	0	b	33	85	28	7	5	4	-	Tr	Tr	4000	1	*
19	Birr Castle	25.2	+6	NNE	1	bc	35	92	32	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	25.2	+8	-	0	c	42	92	40	8	5	-	-	9+	9+	2500	1	0
	Roches Point	24.3	+10	NE	2	c	42	92	40	8	5	-	-	10	10	2500	1	4*

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 3rd Hrs. (38)
1	London (Kew)	45	40	37	0.4	Tr	0.5
	Croydon	43	38	37	0.5	0.2	0.0
	S. Farnborough	43	38	29	Tr	-	0.0
	Boscombe Down	44	35	30	0	Tr	4.2
	Thorney Island	45	39	34	Tr	0.2	*
	Lympne	45	40	38	1	5	2.2
	Manston	54	40	39	1	0.5	0.0
2	Shoeburyness	44	40	39	2	Tr	0.2
	Felixstowe	45	41	37	0.2	-	0.0
	Gorleston	45	42	41	1	-	0.0
	Mildenhall	43	32	22	1	-	0.0
	Cranwell	43	34	29	-	-	0.0
3	Birmingham	41	33	28	0.1	-	0.0
	Upper Heyford	41	34	29	1	Tr	*
4	Ross-on-Wye	42	33	25	0.1	-	0.0
5	Hartland Point	41	38	37	.	-	4.1
	Bristol	37	34	31	0.1	Tr	0.0
	Portland Bill	48	37	*	.	0.2	*
	Plymouth	47	38	33	2	Tr	5.1
	The Lizard	48	37	*	Tr	-	4.0
	Scilly (St. Mary's)	49	43	*	1	2	5.4
	Guernsey						
6	Pembroke	46	36	*	.	-	6.1
7	Holyhead (Valley)	46	37	34	.	-	*
	Chester (Sealand)	44	35	18	Tr	-	0.0
8	Manchester	44	33	22	0.3	Tr	*
10	Spurn Head	45	42	*	.	-	0.0
	Catterick (Sc)	45	33	27	Tr	Tr	0.0
	Tynemouth	47	45	38	-	-	*
11	St. Abbs Head	45	39	*	-	-	
	Leuchars	45	32	27	Tr	-	0.7
12	Renfrew (Abbots I.)	46	29	19	-	-	0.5
	Eskdalemuir	42	27	19	1	-	0.0
	Point of Ayre	48	38	35	.	-	
13A	Tiree	49	39	*	.	0.2	2.6
13B	Stornoway	49	33	27	.	-	4.2
15	Dalwhinnie	41	26	20	.	-	0.1
	Aberdeen †	45	32	23	0.1	-	0.0
	Wick	57	38	34	0.6	Tr	*
16	Sumburgh	45	41	38	Tr	Tr	0.0
17	Blacksod Point	49	37	*	-	-	*
18	Malin Head	49	43	36	0.2	-	
	Aldergrove	47	31	22	Tr	Tr	0.0
19	Birr Castle	48	34	32	1	-	0.3
20	Valentia Obsy.	46	36	30	-	-	1.5
	Roches Point	48	40	*	0.1	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 3rd December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 4th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	52	02754	19327	57	05554	20325	5-	02744	25215	52	02764	25128
115				54	02854	20224	52	61735	20368	52	61735	20368
203												
206	83	01751	08224	00	05600	00024	07	05693	25323	50	05665	00025
210	53	01861	16113	02	01690	19023	.0	00790	22210	57	02864	22318
219	50	01861	00003	00	04890	00010	04	04791	00001	50	02745	16215
230	5-	01864	08164	43	01861	00014	50	01363	00003	57	05663	00027
245	57	02863	08225	50	05663	00013	50	01753	25113	53	02764	22125
260				03	43390	08145	50	45		50	43354	28144
277				54	01861	07112	50	01863	00013	50	01762	00002
279	53	01744	08424	53	05652	07424	57	05665	06226	50	05651	06111
285	5-	54								53	05	
288	52	05645	39427	52	08465	02268	5-	05667	04227	50	47261	00011
575	87	02848	04315	5-	02867	02127	50	01763	04113	04	01790	00002
301	52	05546	04218	57	05654	04325	5-	05554	02128	47	05584	01126
321	52	22635	01368	5-	05656	02366	5-	61666	32386	5-	05666	02366
290	5-	027		8-	02		5-	07		--	48	
292	5-	21648	04458	57	05654	02258						
310												
614	--	57		52	05		50	05		50	05	

III	13h. G.M.T. 3rd December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 4th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333	90	05661	08401	5-	05564	08--4	50	05564	04214	54	01751	02212
334				--	05437	10220						
340	--	46009	32149	57	05444	08348	00	05590	30220	53	47363	32245
136	5-	22638	06368	5-	02858	06468	5-	01862	06302	5-	01853	06318
336				--	46							
350	--	44109	00249	5-	05638	04358	5-	05665	04425	50	05663	06423
368	00	47390	08410	5-	45348	06448				54	05653	06313
379	--	46109	02349	--	67009	02369				54	05653	04324
390	57	47366	00027	5-	41438	32558	5-	08458	32428	5-	05566	32527
382	03	46290	03343	5-	43338	06458	5-	02768	03418	5-	02766	14316
438				5-	05555	02415	5-	67		5-	05	
430	5-	67					5-	05		5-	05	
409	36	01863	05303	06	01790	04312	5-	02655	04425	54	01761	04313

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 4th December
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	ofcmow	frr0cd	cdomoz0
Croydon	ofd0d0	bF, F, fr0r0	oqidcirc
Greenwich	Feb	f⊕bcmrr0	cdomo
Camden Square	or	o	*
Kensington	cbc	bcor	*
Hampstead	bcof	bcp	bc

Atmospheric Pollution. Milligrams of impurity per cubic metre. Kew, 24 hours ended 7h. Max. 1.3, Time 9-10h 3rd; Min. <0.1, Time 0-5h 4th

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	45	40	37	0.4	Tr	0.5	*	*
Croydon	43	38	37	0.5	0.2	0.0	*	*
Greenwich	44	36	33	0.5	-	0.6	91	78
Westminster	45	35	35	0.3			89	74
Regents Park	43	33	31	0.5	-		91	81
Camden Square	43	33	31	1	-	*	*	86
Kensington	44	37	34	0.3	0.1		94	79
Hampstead	42	34	29	Tr	-		*	81

SECRET

Page 1

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

Sunday 5th December 1943 — No. 29963

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·3	-6	NE	4	Z_0	42	56	28	5	1	-	6	Tr	4-6	2100
	Croydon ...	21·3	-2	NE'N	3	Z_0	43	65	31	6	1	-	-	Tr	Tr	2500
	S. Farnborough	21·1	-6	NNE	3	Z_0	43	66	32	5	-	-	-	0	0	-
	Boscombe Down	21·0	-2	ENE	4	b	41	65	30	7	-	-	-	0	0	-
	Thorney Island	20·0	0	NE	4	b	43	65	33	6	1	-	-	Tr	Tr	3500
	Lympne ...	20·1	+2	ENE	5	Z_0	39	75	32	6	5	-	-	4-6	4-6	1200
	Manston ...	21·0	+10	E'N	5	bc	40	85	34	7	1	-	-	4-6	4-6	2000
2	Shoeburyness ...	21·2	0	ENE	5	b	43	65	37	8	1	-	-	1	1	4000
	Felixstowe ...	21·9	+2	NE	6	b	44	55	28	8	-	-	-	0	0	-
	Gorleston ...	22·6	+4	ENE	5	b-bc	48	55	29	7	-	4	-	0	2-3	7000
	Mildenhall ...	23·2	+4	ENE	4	b	43	55	30	8	-	4	-	0	Tr	8600
	Cranwell ...	24·8	-4	NE	1	Z_0	40	85	36	6	5	-	-	10	10	2000
3	Birmingham ...	24·3	-4	NE	3	[illegible]	40	65	29	4	-	-	-	0	0	-
	Upper Heyford	22·8	-2	ENE	5	b	42	65	30	7	-	-	-	0	0	-
4	Ross-on-Wye	22·8	-8	ENE	3	Z_0	41	65	30	6	-	-	-	0	0	-
5	Hartland Point	20·4	-10	NE	5	bc	40	75	31	7	2	-	-	4-6	4-6	2500
	Bristol ...	22·3	-6	NE'E	3	Z_0	42	65	30	6	1	-	-	Tr	Tr	2500
	Portland Bill ...	18·3	-10	NE	4	c	42	85	37	8	4	-	-	10	10	5000
	Plymouth ...	19·8	-6	ENE	4	b	43	75	34	7	5	-	-	1	1	3000
	The Lizard ...	18·3	-4	NE	5	Z_0	44	75	37	6	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	19·1	-2	NE'E	5	c	44	85	39	7	8	6	-	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	23·4	-8	ENE	5	b-bc	42	85	36	7	2	-	-	2-3	2-3	2500
7	Holyhead (Valley)	26·3	0	ENE	3	Z_0	45	75	38	6	2	6	1	2-3	4-6	3000
	Chester (Sealand)	25·6	0	-	0	c/f	41	92	38	8	5	3	-	9	10	5000
8	Manchester ...	25·6	-4	NE	2	c/f	40	88	37	4	5	-	-	4-6	9+	2000
10	Spurn Head ...	25·0	0	SW'S	3	c	44	65	34	8	7	-	-	9+	9+	3400
	Catterick (Sc) ...	26·4	-6	NW	3	Z_0	42	75	36	6	-	3	1	0	Tr	-
	Tynemouth ...	27·5	-6	W	2	m	40	75	34	4	8	3	-	4-6	7-8	2500
11	St. Abbs Head	25·7	-6	W	1	c-bc	42	75	33	7	4	4	-	4-6	7-8	4400
	Leuchars ...	25·7	-8	WSW	2	ir_0	41	85	36	6	-	7	8	0	10	7900
12	Renfrew (Abbots I.)	24·8	-10	-	0	b-bc/f	36	92	34	3	-	3	-	0	2-3	8000
	Eskdalemuir ...	26·7	-10	-	0	c	37	83	32	8	-	4	8	0	9+	8200
	Point of Ayre ...	27·1	-2	E	2	bc	45	65	35	8	1	-	6	Tr	4-6	3000
13A	Tiree	26·5	-10	WSW	2	c	48	92	46	7	8	7	-	4-6	9+	3000
13B	Stornoway ...	25·5	-4	WNW	2	fs	44	97	44	7	5	3	-	9+	10	2200
15	Dalwhinnie ...	26·0	-2	-	0	c	36	97	35	8	5	7	-	7	10	2000
	Aberdeen ...	24·9	-10	NW	2	r_0r_0	41	97	40	4	6	2	-	7-8	10	1100
	Wick ...	24·3	-10	WNW	2	c	44	97	44	8	5	7	-	7-8	10	1500
16	Sumburgh ...	21·4	-20	SW	3	c/r	44	97	44	7	5	2	-	9+	10	700
17	Blacksod Point	27·4	-4	E'N	3	c	44	75	37	7	5	-	5	7-8	9	4000
18	Malin Head ...	27·1	-6	S	1	c	43	75	36	8	5	-	-	9+	9+	2500
	Aldergrove ...	27·5	-6	NE'E	1	c	41	75	34	7	5	7	-	Tr	9+	4000
19	Birr Castle ...	26·1	-6	NNE	1	c	41	85	37	8	5	-	-	9	9	2500
20	Valentia Observy.	25·3	-2	ENE	3	bc	44	75	39	8	8	4	1	4-6	4-6	6000
	Roches Point	24·6	-4	NE	3	c	43	85	39	8	5	-	-	9	9	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	22·8	+10	NE'N	4	m	38	65	28	4	-	-	-	0	0	-	-	*
	Croydon ...	22·2	+8	NE	4	bf+	37	75	30	3	-	-	-	0	0	-	1	*
	S. Farnborough	22·4	+10	N'E	2	m	37	75	30	4	-	-	-	0	0	-	1	*
	Boscombe Down	22·0	+10	NE	4	Z_0	37	75	30	6	-	-	-	0	0	-	0	*
	Thorney Island	20·4	+6	NE	4	b	39	65	28	6	-	-	-	0	0	-	1	*
	Lympne ...	20·9	+8	ENE	5	Z_0	36	85	32	6	5	-	-	Tr	Tr	2000	1	5
	Manston ...	21·6	+2	ENE	4	b	40	65	30	7	-	-	-	0	Tr	-	1	*
2	Shoeburyness ...	22·0	+4	NE	4	b	39	75	30	7	-	-	-	0	0	-	1	*
	Felixstowe ...	22·2	+6	NE	5	b	42	55	29	7	-	-	2	0	0	-	0	3
	Gorleston ...	23·7	+6	ENE	4	c-bc	43	65	32	7	2	-	-	7-8	7-8	1500	0	5
	Mildenhall ...	24·0	+6	NNE	3	b	35	85	30	7	-	4	-	0	Tr	8600	1	*
	Cranwell ...	24·5	-2	NE	1	Z_0	36	85	32	5	5	3	-	4-6	7-8	3000	0	*
3	Birmingham ...	24·5	0	NNE	2	bc/f+	39	92	36	3	5	-	-	4-6	4-6	5700	1	*
	Upper Heyford	23·7	+10	NE	3	Z_0	35	86	30	6	-	-	-	0	0	-	1	*
4	Ross-on-Wye	23·6	+4	NE	2	Z_0	37	85	31	5	-	-	-	0	0	-	1	*
5	Hartland Point	21·4	+8	NE	5	b	41	75	32	7	1	-	-	Tr	Tr	2500	0	4
	Bristol ...	23·3	+6	NE	2	m	34	75	28	4	-	-	-	0	0	-	1	*
	Portland Bill ...	19·5	+4	NE	4	bc	40	75	32	7	4	-	-	4-6	4-6	5000	1	4
	Plymouth ...	20·3	+2	NE	4	b	39	75	30	6	5	-	-	1	1	3000	1	2
	The Lizard ...	19·0	+6	NE	6	Z_0	44	75	37	5	5	-	-	9	9	1500	0	4
	Scilly (St. Mary's)	19·8	+8	E'N	4	c-bc	42	75	36	8	8	6	-	4-6	7-8	1500	0	4
	Guernsey ...																	
6	Pembroke ...	24·1	+10	NE'E	3	b-bc	38	85	32	7	2	-	-	2-3	2-3	2500	0	2
7	Holyhead (Valley)	25·8	-2	NE	1	Z_0	35	92	33	6	-	4	1	1	1	8200	0	1
	Chester (Sealand)	25·5	-2	-	0	bf	35	92	32	3	-	-	-	0	0	-	0	*
8	Manchester ...	25·5	+4	NE	2	bf+	32	92	30	1	-	-	-	0	0	-	1	*
10	Spurn Head ...	24·9	0	NE	3	b	41	75	33	7	-	-	-	0	0	-	0	3
	Catterick (Sc) ...	26·3	0	W	1	Z_0	33	97	33	5	-	3	-	7-8	7-8	7800	1	*
	Tynemouth ...	26·3	-6	W	3	Z_0	40	85	34	6	5	-	-	7-8	7-8	2500	0	2
11	St. Abbs Head	25·0	0	W	1	Z_0	43	75	36	6	5	3	-	4-6	7-8	3000	0	3
	Leuchars ...	24·8	-6	SW	2	Z_0	39	92	36	5	-	5	-	0	9+	7900	1	*
12	Renfrew (Abbots I.)	25·7	-6	-	0	m	39	92	37	4	5	7	-	4-6	9+	2000	1	*
	Eskdalemuir ...	26·1	0	-	0	c-bc	33	92	31	8	5	3	-	2-3	7-8	2400	3	*
	Point of Ayre ...	26·3	-4	NNE	1	c	43	75	36	8	5	-	-	9+	9+	4500	0	2
13A	Tiree	26·1	-2	W	1	c	47	97	47	7	7	-	-	10	10	2000	1	0
13B	Stornoway ...	24·7	-2	-	0	Z_0	43	92	41	7	5	-	-	10	10	2800	1	1
15	Dalwhinnie ...	25·5	-4	-	0	c	35	97	34	7	5	2	8	7-8	10	2000	1	*
	Aberdeen ...	24·0	-6	WNW	2	r_0r_0	43	85	38	4	6	2	7	4-6	10	1500	1	2
	Wick ...	23·7	-2	W	1	c	44	97	43	7	5	2	-	9	10	2000	1	*
16	Sumburgh ...	20·5	-6	W'N	3	c/d	46	92	43	7	5	7	-	7-8	10	1800	1	2
17	Blacksod Point	27·3	0	E	3	c-bc	38	85	34	7	5	3	-	2-3	7-8	2500	1	3
18	Malin Head ...	26·0	-8	SW	1	bc	43	85	39	8	5	-	1	2-3	4-6	2500	2	2
	Aldergrove ...	27·0	-2	-	0	m	36	92	34	4	5	7	-	2-3	9+	3500	1	*
19	Birr Castle ...	26·0	0	NNE	1	bc	37	92	35	8	5	-	-	4-6	4-6	2500	1	3
20	Valentia Observy.	25·7	+8	-	0	b	39	85	35	8	5	-	-	Tr	Tr	4500	1	1
	Roches Point	24·8	+2	NE'E	3	b-bc	40	85	36	8	2	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 4th (39)	Weather. 13h.—18h. 4th (40)	Weather. 18h. 4th to 1h. 5th (41)	Weather. 1h.—7h. 5th (42)
1	London (Kew)	bc b bc Z_0	b $c Z_0$ bm	bm	bc m o x
	Croydon ...	c m b c z b Z_0	b Z_0 b z	b f bf x	bf x bm x
	S. Farnborough	c m b c m $b m_0$	b Z_0 y Z	b z m x	bm o m x
	Boscombe Down	c b c b	b b m_0	b z o bv	blox
	Thorney Island	c b m_0	b	c b m o	bm o x bc
	Lympne ...	$c m_0$ b c	$b m_0$	bm o z o m	bm b z
	Manston ...	bc	b c b	b b c b	b c b z m o
2	Shoeburyness ...	bc	b c b	bm o x	b
	Felixstowe ...	b c b	b	b y b c	c b y b c
	Gorleston ...	b c q	b e c	c b c	b c
	Mildenhall ...	b	b	b b x b c x	b c b m x
	Cranwell ...	$c m_0$	$c m_0$	b c m o b m_0	b m o f
3	Birmingham ...	f b x	b z b c f	b c f b m	b m x
	Upper Heyford	$c m_0$ b	b b m_0	b m o x	b m m o x
4	Ross-on-Wye	b c b b	b b z_0		b [illegible] c
5	Hartland Point	b e c b c	b c b	b	p b c b
	Bristol ...	c m b c b z_0	b z_0	b f b m x b c	b c o b m x
	Portland Bill ...	c c	c	b b c	b c b c
	Plymouth ...	b c	b c b	b z o	b z o
	The Lizard ...	c b c z_0	b c z	c b c c z	c z
	Scilly (St. Mary's)	c	c b c c	c b c b	b c c b c
	Guernsey ...				
6	Pembroke ...	b c	b c	b c	b c x
7	Holyhead (Valley)	b c b b c	b c b	b b c m o	b c m o f
	Chester (Sealand)	a f f	c, b c f f	b f f	b f f x c
8	Manchester ...	b_1 c f f m_0	$d_0 d_0 f f x$	b F F x	b c c f f x
10	Spurn Head ...	c	b	b c m o	o m o
	Catterick (Sc) ...	b $c m_0$ $b m_0$	e m	c m	c m
	Tynemouth ...	b $c m_0$ e m	c m	c m o	b c c m o
11	St. Abbs Head	b $c m_0$ c	c $c m_0$	c i r_0	o m o c m o
	Leuchars ...	e r_0 i r_0 m_0	c i r_0 e m_0	c m o	c m o c i r_0
12	Renfrew (Abbots I.)	b_1 f x m b c f	b c f m	c m c i r_0 m	c i r_0 m o m
	Eskdalemuir ...	b c x c	c b c x	b c x c	c i r_0 m o
	Point of Ayre ...	b b c	b c c	c l d o	c l d o c m o
13A	Tiree	c	c	c l d o c	c l d o c
13B	Stornoway ...	$c m_0$ c i d_0 c	e e f g e m_0	c d d_0 c	c l d_0
15	Dalwhinnie ...	o c o	o		o i d o
	Aberdeen ...	c z x e m_0 $i r_0$	e m i r_0	c r r_0 m o	c m o c
	Wick ...	i r_0 r_0 c	$d_0 d_0 d d m_0 c$	c c i d_0	e i d_0 c
16	Sumburgh ...	$c d_0 d d$	$c d_0 d_0 i d_0$	c i d_0	e i d_0 c
17	Blacksod Point	a	b c	b	b c
18	Malin Head ...	b x b c x $c m_0$ c	c c z_0 m_0 m	c m b c m	c f c m, i d f
	Aldergrove ...				
19	Birr Castle ...	e	b c	b	c
20	Valentia Observy.	b c	b	b c	b c
	Roches Point	e	b c		

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

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light variable or easterly winds. Mainly cloudless; moderate or poor visibility with fairly general fog developing this evening. Rather cold with frost night and morning.
5 S.W. England 6 South Wales 7 North Wales	Light variable or easterly winds. Fair; some fog in east to-night; cold with frost night and morning.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light variable winds. Cloudy with local drizzle; local mist and fog, rather cold with local frost to-night.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light westerly winds. Cloudy; occasional rain in North and West: local hill fog: rather cold.
16 Orkneys and Shetlands	As 13A - 15
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 8 - 12

GENERAL INFERENCE

Pressure is high over the British Isles. Weather will be cloudy and rather cold in the North with local rain or drizzle and local fog. In the South, cloud amounts will be small with frost night and morning and fairly general fog developing this evening.

FURTHER OUTLOOK

Little change indicated.

Forecasts issued at 1030

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

7h. Sunday 5th December 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

1016 1018 1020 1022 1024 1026

HIGH

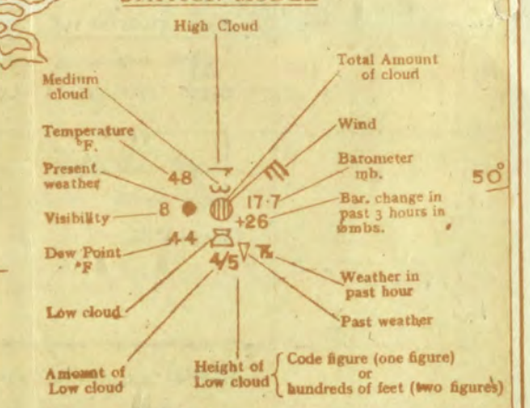
LOW

LOW

1020 1018

10° 5°W.

STATION MODEL



Scale 1.: 5,000,000

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

Pr. 524/4582. Wt. 8051. d. 2545. 6p. 3/43. 7440. 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Sunday 5th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

BRITISH SECTION.

SUNDAY 5th December 1943

No. 29963

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon ...	290	23·1	+4	NE	2	bf	31	92	29	3	-	-	-	0	0	-
	S. Farnborough	226	22·7	+2	N'E	2	m	33	85	30	4	-	-	-	0	0	-
	Boscombe Down	417	22·6	+4	NE	4	b	34	75	28	7	-	-	-	0	0	-
	Thorney Island	10	21·6	+4	NE	3	zo	35	85	31	6	-	-	-	0	0	-
	Lympne ..	341	21·9	+6	ENE	4	m	36	85	31	4	-	-	-	0	0	-
	Manston ...	154	22·1	+2	E'N	3	bc	38	75	29	7	5	-	6	2-3	4-6	6000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	23·0	0	NE	4	b-bc	41	65	30	7	5	-	-	2-3	2-3	2500
	Gorleston ...	5	23·6	-2	NE'E	3	bc	43	75	35	7	5	-	-	4-6	4-6	1500
	Mildenhall ...	15	24·0	-2	NE'N	2	zo	27	97	27	6	5	4	-	2-3	4-6	5000
	Cranwell ...	203	24·5	-6	NNE	2	zo	34	92	32	5	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	24·3	-2	NNE	2	m	28	97	28	4	-	4	-	0	Tr	-
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	21·9	0	NE	5	b	39	75	32	7	1	-	-	Tr	Tr	2500
	Bristol ...	209	24·1	-2	-	0	m	30	97	29	4	5	-	-	4-6	4-6	7000
	Portland Bill ...	32	20·8	+12	NE	4	bc	37	85	32	8	5	-	-	4-6	4-6	4500
	Plymouth ...	86	21·4	+4	NE	5	zo	36	75	28	6	-	4	-	0	1	7800
	The Lizard ...	240	20·2	+2	ENE	6	zo	41	55	25	6	5	-	-	3+	3+	1000
	Scilly (St. Mary's)	163	20·8	+2	ENE	5	b	40	75	40	7	5	-	-	Tr	Tr	1500
	Guernsey ...	175															
6	Pembroke ...	142	25·0	0	NE'E	4	bc	38	75	30	7	5	-	-	2-3	4-6	2500
7	Holyhead (Valley)	32	26·6	+6	NE'N	1	zo	32	97	32	5	3	-	-	0	1	8000
	Chester (Sealand)	16	25·6	-4	-	0	bf	30	97	29	2	-	-	-	0	0	-
8	Manchester ...	230	25·5	-4	-	0	bcF	31	97	30	1	5	-	-	4-6	4-6	2000
10	Spurn Head ...	29	24·6	-4	NNW	3	bc	39	85	36	6	7	-	-	4-6	4-6	2500
	Catterick (Sc) ...	192	25·6	-4	-	0	m	34	92	32	4	-	7	-	9+	9+	8300
	Tynemouth ...	108	25·3	-4	NW	3	zo	39	75	31	6	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	24·1	-4	-	0	zo	46	75	39	6	5	-	-	10	10	2500
	Leuchars ...	31	24·0	-2	WSW	1	zo	41	92	38	5	5	-	-	10	10	3400
12	Renfrew (Abbotsl.)	19	24·6	-2	-	0	ir.	41	92	40	4	5	2	-	7-8	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	25·5	-8	N'N	1	bc	36	97	35	8	5	4	5	2-3	4-6	2500
13A	Tiree	44	25·7	-6	N	1	c	46	92	44	7	5	-	-	9	9	3500
13B	Stornoway ...	12	24·3	-10	WSW	2	c-bc	43	97	42	6	5	2	-	4-6	7-8	1600
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	23·4	-4	WNW	1	r.r.	43	92	41	7	-	2	-	10	10	2700
	Wick ...	114	23·1	+2	W	1	c/d	44	97	44	8	5	2	-	9	10	1300
16	Sumburgh ..	15	23·6	-6	W'N	4	c/d	47	97	46	8	5	7	6	4-6	9+	2000
17	Blacksod Point	18	23·7	-2	-	0	b	37	85	33	7	-	-	7	0	4-6	-
18	Malin Head ...	84	25·6	-4	SW	1	c	44	85	44	8	5	-	-	10	10	2500
	Aldergrove ...	294	26·5	-6	-	0	m	36	97	35	4	-	7	-	0	4-6	7900
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25·7	-6	E'N	2	b	38	75	38	8	-	-	-	0	0	-
	Roches Point	22	25·1	-12	NEN	3	c-bc	39	85	35	8	5	-	-	7-8	7-8	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	23·7	+8	ESE	1	zo	34	85	31	5	5	3	-	2-3	7-8	2100	1	*
	Croydon ...	23·5	+6	ENE	2	m	30	92	28	4	-	4	1	0	Tr	7800	1	*
	S. Farnborough	23·3	+4	N'E	2	m	33	92	30	4	-	4	-	0	Tr	8200	3	*
	Boscombe Down	22·8	+4	NE'E	4	b-bc	33	85	29	7	-	7	1	0	2-3	-		*
	Thorney Island	21·5	+4	NE'N	3	zo	35	85	30	6	5	7	-	Tr	2-3	3000	1	*
	Lympne ..	22·4	+10	ENE	3	m	36	75	28	4	-	-	-	0	0	-	1	54
	Manston ...	22·7	+12	E'N	4	zo	38	65	27	6	-	-	-	0	0	-	1	*
2	Shoeburyness ...	23·1	+4	N'E	2	zo	33	92	31	5	1	4	-	Tr	1	3500	3	*
	Felixstowe ...	23·6	+4	NE	2	bc	36	85	32	7	5	-	-	2-3	4-6	2500	0	2
	Gorleston ...	23·6	+2	NNW	2	bc	36	85	31	7	5	-	-	4-6	4-6	1500	0	3
	Mildenhall ...	24·2	+2	NE'N	5	zo	26	97	26	5	-	4	-	0	Tr	8000	3	*
	Cranwell ...	24·9	0	NNW	2	of	34	97	33	3	5	-	-	10	10	600	0	*
3	Birmingham ...	25·4	-2	NE	2	m	33	92	31	4	-	4	-	0	2-3	-	1	*
	Upper Heyford	24·0	-2	NNE	2	zo	31	97	30	5	-	4	-	0	Tr	-	3	*
	Ross-on-Wye	24·4	0	-	0	m	27	97	27	4	-	-	-	0	0	-	3	*
5	Hartland Point	21·8	0	NE	5	b	39	85	34	7	1	-	-	1	1	2500	0	5
	Bristol ...	23·3	+2	-	0	m	28	97	28	4	-	-	2	0	4-6	8500	0	*
	Portland Bill ...	20·8	-4	NE	4	bc	38	85	33	8	5	-	-	4-6	4-6	5000	1	4
	Plymouth ...	20·7	-2	ENE	5	zo	36	75	29	7	-	4	-	0	4-6	-	3	3
	The Lizard ...	19·2	-6	ENE	6	zo	41	75	32	5	2	-	-	7-8	9	2000	3	4
	Scilly (St. Mary's)	20·1	-6	ENE	5	bc	39	85	34	7	8	-	-	4-6	4-6	1500	1	4
	Guernsey ...																	
6	Pembroke ...	23·8	-2	NE	4	b-bc	36	85	31	7	5	-	-	2-3	2-3	2500	0	2
7	Holyhead (Valley)	25·7	+20	-	0	m/f	37	85	35	4	-	-	-	10	10	1150	0	1
	Chester (Sealand)	25·0	-8	-	0	of	32	97	30	3	5	-	-	10	10	3500	3	*
8	Manchester ...	25·1	+2	-	0	of	31	97	31	2	5	-	-	10	10	2000	3	*
10	Spurn Head ...	24·8	+2	NW	2	zo	39	92	36	6	5	-	-	10	10	1500	0	2
	Catterick (Sc) ...	25·2	-4	-	0	m	34	97	34	4	-	7	-	0	10	-	1	*
	Tynemouth ...	25·2	0	WNW	3	zo	40	75	34	6	5	-	-	9+	9+	2500	0	2
11	St. Abbs Head	24·0	0	WNW	1	zo	44	92	42	6	5	-	-	10	10	1500	0	3
	Leuchars ...	24·0	+2	WSW	2	zo	41	92	39	5	5	-	-	10	10	4000	1	*
12	Renfrew (Abbotsl.)	23·9	-4	-	0	m	41	97	40	4	5	2	-	2-3	10	2000	1	*
	Eskdalemuir ...	25·1	-2	-	0	c	33	97	32	6	5	-	-	10	10	1300	1	*
	Point of Ayre ...	24·4	-6	N	3	o	47	92	45	8	5	-	-	10	10	2000	0	0
13A	Tiree	25·5	0	N	2	zo	45	97	45	6	5	-	-	10	10	3000	1	0
13B	Stornoway ...	24·1	0	WSW	2	c-bc	43	97	42	7	5	3	-	4-6	7-8	2500	1	1
15	Dalwhinnie ...	24·0	+2	-	0	c	37	97	37	6	5	2	-	7-8	10	2000	1	*
	Aberdeen † ...	23·7	-4	N	2	c	44	92	41	7	5	-	-	10	10	2500	1	2
	Wick ...	22·8	-2	WNW	3	c/d	45	97	45	8	5	2	-	4-6	4-6	800	1	*
16	Sumburgh ..	20·1	+6	W'N	5	id.	47	97	46	7	5	-	-	9	10	1000	1	2
17	Blacksod Point	26·7	-2	E	1	b	36	85	34	7	5	-	-	1	1	4000	1	2
18	Malin Head ...	25·1	-2	N	1	d	45	92	43	5	5	-	-	10	10	2500	2	2
	Aldergrove ...	26·2	-2	-	0	dr	38	97	37	3	5	-	-	10	10	600	1	*
19	Birr Castle ...	26·2	-2	NNE	1	o	31	97	30	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	25·7	+2	E'N	2	b	31	92	29	7	5	-	-	Tr	Tr	1500	0	1
	Roches Point	25·0	0	NE	3	c	39	85	35	8	5	-	-	9	9	2500	1	3

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 24h Hrs. (38)
1	London (Kew)	43	34	25	-	Tr	4·8
	Croydon ...	43	29	23	-	-	5·2
	S. Farnborough	43	33	19	-	-	4·6
	Boscombe Down	42	32	26	-	-	6·1
	Thorney Island	44	31	25	Tr	-	*
	Lympne ..	40	32	27	-	-	3·9
	Manston ...	41	36	32	-	-	5·7
2	Shoeburyness ...	43	31	26	-	-	6·2
	Felixstowe ...	44	35	32	-	-	6·4
	Gorleston ...	44	36	30	-	-	6·5
	Mildenhall ...	43	24	21	-	Tr	5·8
	Cranwell ...	40	31	28	Tr	-	0·1
3	Birmingham ...	40	31	19	-	-	4·2
	Upper Heyford	42	27	24	-	-	*
	Ross-on-Wye	41	26	18	-	-	6·5
5	Hartland Point	41	37	36	-	-	4·0
	Bristol ...	42	26	17	-	-	5·0
	Portland Bill ...	42	34	*	-	-	*
	Plymouth ...	44	35	29	-	-	6·6
	The Lizard ...	46	40	*	-	-	2·8
	Scilly (St. Mary's)	45	38	*	-	-	4·0
	Guernsey ...						
6	Pembroke ...	42	33	*	-	-	6·0
7	Holyhead (Valley)	46	31	24	-	-	*
	Chester (Sealand)	42	29	24	-	Tr	0·0
8	Manchester ...	41	28	29	0·1	-	*
10	Spurn Head ...	44	37	*	-	-	0·5
	Catterick (Sc) ...	42	33	29	-	-	2·9
	Tynemouth ...	44	39	38	4	-	*
11	St. Abbs Head	44	42	*	-	-	*
	Leuchars ...	42	38	32	Tr	Tr	0·0
12	Renfrew (Abbotsl.)	40	38	32	-	0·4	0·1
	Eskdalemuir ...	39	30	26	-	Tr	2·7
	Point of Ayre ...	45	35	*	-	-	4·4
13A	Tiree	48	45	41	0·1	Tr	0·0
13B	Stornoway ...	44	38	*	Tr	Tr	0·0
15	Dalwhinnie ...	37	34	32	-	0·1	0·0
	Aberdeen † ...	43	42	38	0·3	Tr	0·0
	Wick ...	45	44	42	0·4	Tr	*
16	Sumburgh ..	46	46	44	0·4	Tr	0·0
17	Blacksod Point	44	34	*	-	-	*
18	Malin Head ...	44	36	*	-	0·3	0·0
	Aldergrove ...	42	39	29	Tr	0·3	7·1
19	Birr Castle ...	41	28	23	-	-	0·3
20	Valentia Obsy.	45	31	23	-	-	3·1
	Roches Point	44	36	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 4th Dec. ... 18h. G.M.T. | 01h. G.M.T. 5th Dec. ... 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	52	02826	29358	52	02755	25368	5-	51645	26458	5-	21644	28458
115	52	02815	32815	52	02835	28328	52	81844	28487	22	82844	28487
203							5-	02				
2[illegible]57		02763	26257	52	51654	21228	5-	02752	00058	5-	02763	00028
210	57	22864	20367	5-	02758	23358	5-	02743	24228	57	02853	20228
219	57	02756	82228	57	01755	00028	5-	51645	26225	5-	02866	10156
230	07	05790	00028	52	05656	12128	5-	22758	00068	52	02864	28268
245	57	02765	24228	53	05652	24164	52	22666	00068	52	05677	24128
260	07	05		5-	47		5-	45		5-	45	
277	54	02854	24125	54	01666	00027	5-	17445	00028	52	21544	02158
279	07	02790	04127	03	01685	00026	57	08463	00025	5-	08448	06228
285	13	01								5-	02	
288	50	17353	00043	03	17296	00046	57	08465	18148	07	05597	17127
575	03	01790	00014	03	01790	60014	53	05668	16128	52	05654	00028
301	03	05590	02211	00	08490	04112	00	41490	00047	53	45354	06145
321	57	05665	05165	00	05690	85128	00	47290	32140	5-	45276	00046
299	70	01		04	01						05645	28115
292	50	01862	04143	04	47394	04144	07	08495	24428	57	08463	26167
310												
614	5-	05		50	08		00	08		57	08	

13h. G.M.T. 4th Dec. ... 18h. G.M.T. | 01h. G.M.T. 5th Dec. ... 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
333	44	01752	06313	00	05590	00012	00	05690	00000
334	--	05544	10215	--	05436	06217			
340	50	43363	03243	5-	47354	02244	00	43250	02140
136	70	01874	06214	33	01790	06111	03	01790	00014
336				50	05636	04			
350	00	00790	06300	00	05690	04300	04	05690	02203
368	00	05690	24310	0-	05690	08300	50	05643	04303
379	00	00790	24100	00	00690	04310	00	47190	04200
390	10			00	05690	02100	04	05690	04202
382	00	05690	39120	00	05690	03100	00	05590	02200
438	8-	01		00	00790	04500			
430	50	05		00	00		00	05690	04300
409	44	01862	04313	10	05661	04302	00	05690	05300

	C_L C_M	wwVhN$_h$	DDFWN
	00	05690	00047
	03	01790	00028
	00	43250	02148
	5-	45228	32148
	5-	08447	30127
	04	08490	04112
	50	08453	06313
	00	47261	02442
	04	05590	02400
	00	05590	04301
	00	01	
	57	01783	05314

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 5th December

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 ...	bc b bc z	bc z. b m	b c m o x	Kew—24 hours ended 7h. Max Time
Croydon ...	c m b c z	b z. b z	b f x b m x	
Greenwich ...	b	b y	b f x	
Camden Square	b	b		
Kensington ...	b c	b c b, o	*	Min. Time
Hampstead ...	b c x	b c	b c	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % Today
Kew	43	34	25	-	Tr	4·8	*	*
Croydon ...	43	29	23	-	-	5·2	*	*
Greenwich ...	43	32	22	-	-	5·2	54	91
Westminster ...	44	35	29	-	-		*	*
Regents Park ...								
Camden Square	44	32	22	-	-	*	*	94
Kensington ...	44	33	30	-	-		99	89
Hampstead ...	41	32	26	-	-		*	86

SECRET

Page 1

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

Monday 6th December 1943 — No. 29964

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

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)	23·2	-4	NEE	4	c-bc/f	43	75	36	5	1	-	6	2-3	7-8	900
	Croydon ...	22·8	-14	NE	2	z_o	42	75	36	5	1	-	-	2-3	2-3	2000
	S. Farnborough	22·8	-6	NE'N	3	m	43	75	35	4	-	-	-	0	0	-
	Boscombe Down	22·3	-6	ENE	5	b	42	75	35	7	-	-	-	0	0	-
	Thorney Island	21·5	+4	NE'E	4	z_o	43	55	30	6	-	-	-	0	0	-
	Lympne ...	22·7	-2	ENE	4	z_o	41	65	31	6	-	-	-	0	0	-
	Manston ...	22·9	-2	E'S	4	z_o	42	55	29	6	-	-	-	0	0	-
2	Shoeburyness ...	23·7	0	NE	3	b	44	75	38	7	-	-	-	0	0	-
	Felixstowe ...	23·6	-6	NE	3	b-bc	45	75	38	7	1	-	-	2-3	2-3	3000
	Gorleston ...	24·2	-6	-	0	z_o	43	85	39	5	5	-	-	7-8	7-8	800
	Mildenhall ...	24·5	-2	-	0	z_o	41	92	38	5	5	-	-	9+	9+	2300
	Cranwell ...	25·3	-2	NNW	1	m	40	85	35	4	5	-	-	10	10	4500
3	Birmingham ...	25·2	-2	E	2	m	40	75	34	4	-	-	-	0	0	-
	Upper Heyford	23·8	-12	NE'E	3	z_o	44	75	37	5	-	-	-	0	0	-
	Ross-on-Wye	24·3	-12	ENE	1	bf-	37	85	33	3	-	-	-	0	0	-
5	Hartland Point	21·2	+10	NE	4	b-bc	41	75	33	7	1	4	-	Tr	2-3	2500
	Bristol ...	23·1	-6	NE	2	b/f	40	75	35	4	5	-	-	1	1	1000
	Portland Bill ...	20·9	-6	NE	4	bc	42	85	37	8	5	-	-	4-6	4-6	5000
	Plymouth ...	20·7	-10	ENE	5	bc	41	65	30	7	5	3	-	1	4-6	3500
	The Lizard ...	19·1	-6	E	6	c-bc	42	75	36	7	8	3	-	7-8	7-8	2500
	Scilly (St. Mary's)	19·8	-6	ENE	5	c-bc	42	75	35	7	5	8	-	4-6	7-8	1200
	Guernsey ...															
6	Pembroke ...	24·3	+4	E'N	4	b-bc	42	75	36	7	5	-	-	2-3	2-3	2500
7	Holyhead (Valley)	25·0	-4	N'E	1	fg	47	75	40	7	-	3	-	0	9	-
	Chester (Sealand)	25·1	-6	-	0	cf	41	75	35	3	5	3	-	2-3	9+	6000
8	Manchester ...	25·4	-6	-	0	cf	38	85	35	2	5	-	-	9+	9+	6000
10	Spurn Head ...	25·4	0	NW	2	z_o	41	92	39	5	7	-	-	10	10	1500
	Catterick (Sc) ...	25·6	-2	SW	1	m	42	85	37	4	-	3	-	0	9	c-
	Tynemouth ...	25·6	-4	WSW	3	m	44	75	38	4	5	-	-	7-8	7-8	2800
11	St. Abbs Head	24·8	+4	-	0	c	46	92	44	7	5	3	-	7-8	9+	3500
	Leuchars ...	24·8	+6	-	0	m	44	92	42	4	-	7	-	0	9+	7900
12	Renfrew (Abbotsl.)	25·0	+6	-	0	cf	43	92	42	2	5	-	-	10	10	1600
	Eskdalemuir ...	25·5	-2	-	0	c	37	92	36	6	-	3	-	0	9	8c-
	Point of Ayre ...	25·0	0	-	0	c	48	92	46	7	5	-	-	9+	9+	100
13A	Tiree	15·4	-2	NW	1	c	48	85	43	9	5	2	-	7-8	10	4000
13B	Stornoway ...	25·3	-4	N	1	c	47	92	45	9	5	7	-	4-6	9+	5000
15	Dalwhinnie ...	25·0	+2	-	0	o	40	97	40	7	5	-	-	10	10	900
	Aberdeen ...	24·6	+4	W'N	1	m	45	92	42	4	5	-	-	9+	10	4000
	Wick ...	23·9	+2	W'S	2	c	47	92	44	9	5	7	-	4-6	10	4000
16	Sumburgh ...	21·2	0	W'N	4	id_o	48	92	46	7	5	3	-	9+	10	1200
17	Blacksod Point	26·6	-4	-	0	c	43	75	39	8	5	-	-	10	10	4000
18	Malin Head ...	25·4	-2	-	0	c	46	97	45	8	5	-	-	10	10	1500
	Aldergrove ...	26·1	-4	-	0	df	41	92	39	3	5	-	-	10	10	400
19	Birr Castle ...	26·0	-4	N	1	c	35	97	34	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	25·3	-10	E	2	c	43	75	36	8	5	7	-	2-3	9+	6000
	Roches Point	24·8	-6	NE	3	c	42	85	39	8	5	-	-	9	9	2500

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

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. 0–6 (31)	Sea. 0–9 (32)
22·5	-2	NE	3	m	41	85	36	4	5	-	-	4-6	4-6	2500	1	*
22·9	+2	NE	2	bf+	38	92	35	3	-	-	-	0	0	-	1	*
22·4	-2	NNE	2	bf+	39	92	36	3	-	-	-	0	0	-	3	*
21·7	-2	NE'E	4	z_o	38	85	35	6	-	-	-	0	0	-	0	*
20·7	-2	NE	2	z_o	40	75	34	6	-	3	-	0	Tr	-	1	*
22·0	-4	ENE	4	m	36	75	29	4	-	-	-	0	0	-	0	5
22·8	-2	E	3	z_o	39	65	30	6	-	-	-	0	0	-	1	*
24·0	0	NE	3	b	41	85	36	6	-	-	-	0	0	-	1	*
23·3	-4	NE	3	c	45	75	38	7	5	-	-	9+	9+	2100	0	2
23·7	+2	NNE	1	c	44	92	42	7	5	-	-	9+	9+	1200	0	2
24·2	0	-	0	cf+	36	97	36	3	5	-	-	9+	9+	3500	1	*
24·5	+2	N	1	f-	38	85	35	3	-	-	-	10	10	1150	0	*
24·5	-4	NE	1	cf	40	85	35	2	5	3	-	4-6	9+	4000	1	*
23·5	-4	NE'N	2	z_o	37	85	34	5	5	-	-	1	1	2000	1	*
23·7	-4	E'N	2	m	37	92	34	4	5	-	-	10	10	600	1	*
19·4	-4	NE	5	b	41	92	39	7	-	4	-	0	Tr	-	0	4
23·1	+2	ENE	2	m/f	36	85	33	4	-	-	-	0	0	-	3	*
18·2	-6	NE	5	c-bc	42	85	37	7	5	-	-	7-8	7-8	4500	1	4
18·8	-10	ENE	5	b	41	65	31	6	-	-	1	0	Tr	-	0	
17·9	-4	E	6	z_o	43	75	36	6	5	-	-	4-6	4-6	2500	0	5
18·3	-6	ENE	5	b-bc	42	75	34	6	5	-	-	2-3	2-3	1500	1	
22·7	-6	ENE	4	b-bc	39	85	34	7	5	-	-	2-3	2-3	2500	0	2
24·3	-2	-	0	c-bc	39	92	37	7	-	3	-	0	7-8	-	0	1
24·8	+2	-	0	bf+	32	97	31	2	-	-	-	0	0	-	1	*
25·0	+2	-	0	bF	33	97	32	1	-	-	-	0	0	-	1	*
25·0	+2	NNW	3	z_o	41	92	39	5	7	3	-	4-6	4-6	1100	0	3
25·9	+2	-	0	m	36	97	36	4	-	3	-	4-6	4-6	-	0	*
25·6	0	SW	2	m	42	92	39	4	5	-	-	8	8	2500	0	2
24·5	-2	-	0	z_o	44	92	41	7	5	-	-	7-8	10	4000	0	2
24·9	+2	-	0	mf	42	92	41	4	-	3	-	0	9+	-	1	*
24·5	-2	-	0	F+	41	97	40	1	-	-	-	10	10	1150	1	*
25·0	+2	-	0	z_o	36	92	35	5	-	3	-	0	10	8300	1	*
24·1	-4	SSE	2	c	47	92	45	7	5	-	-	10	10	2000	0	1
25·3	0	NNW	1	c	47	85	43	8	5	7	-	7-8	10	2000	1	1
23·4	-2	SW	2	c	46	92	44	7	5	2	-	7-8	10	1500	1	1
24·5	0	-	0	o	39	97	38	8	5	-	-	10	10	2500	1	*
24·4	-2	NW	1	cf+	43	92	41	2	5	-	-	10	10	4000	1	*
23·7	0	SW	1	c	44	97	43	8	5	7	-	7-8	10	7000	1	*
20·7	-4	WSW	5	c	43	92	46	8	5	3	-	4-6	9+	1200	1	2
26·0	-4	-	0	c	41	92	39	8	5	-	-	10	10	4000	1	1
24·7	-4	W'S	1	c	46	92	44	8	5	-	-	10	10	1500	1	1
25·5	-2	-	0	cf+	41	97	40	1	5	-	-	10	10	100	1	*
25·2	0	N	1	c	38	92	36	7	5	2	-	7-8	10	2500	1	*
24·0	-6	SE'E	1	c	42	75	35	8	-	7	-	0	10	-	1	2
23·8	-4	NE	3	b	40	92	38	8	5	-	-	1	1	2500	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 5th (39)	Weather. 13h.–18h. 5th (40)	Weather. 18h. 5th to 1h. 6th (41)	Weather. 1h.–7h. 6th (42)
bcmcfm$_o$	cbcm	bcmbni$_2$w	bcm$_o$cm
bmbfbz$_o$	bmbf	bffx	bfxbcmxcf
bm$_o$xmz	bzbcmbfx	bfmx	bbcmxcbwm
bbm$_o$xz$_o$b	bbz$_o$bm$_o$	bm$_o$	bm$_o$cm$_o$
bxbm$_o$	bm$_o$bbz$_o$	bm$_o$	bm$_o$cm$_o$
bm$_o$xbz$_o$	bz$_o$	bzz$_o$m$_o$x	bm$_o$m$_o$
bz$_o$	bz$_o$	bz$_o$m$_o$	bm$_o$x
bcm$_o$xcbcmb	b	bcm$_o$	bcm$_o$x
bccb	bc	cbm$_o$b	bbz$_o$
bcm$_o$fcm	cbz$_o$	cbcw	bcwx
bm$_o$xcmxbm$_o$	cm$_o$bmcm	cfaF	bFx
cm	cmcf	ofbcmcm	f
bcfbm	bmcf	cbf	bfF
bm$_o$xbmx	bzcm$_o$	cm$_o$cmbcmw	mlf
bmf	bfbm$_o$cm$_o$	omcm$_o$	omcmm
bbc	bcb	bbccbc	bc
bfxbf	bmbm$_o$bfx	bmcm$_o$bm$_o$	cm$_o$wbccm$_o$
bcbc	e	bcbc	co
bcz$_o$bc	bcbb	bz$_o$b	cm$_o$ir$_o$
cz$_o$c	bbcz	bccz	coz
cbcc	cbc	bcc	c
bc	bc	bc	bc
cfg	c	bm$_o$	bm$_o$
bccffex	cffb	bffxc	cffx
cfffx	cbcbFF	cbFFFx	bfffx
cm	bcm$_o$	cm	cm$_o$
cm	cm$_o$cm	cf	cf
cm	cm	emoff	offm
cm$_o$	cm$_o$bcm$_o$	cm$_o$c	cbccm$_o$
cmem	cm$_o$fcm	cbcmcfof	ofcm
cf	cfof	of	of
cm$_o$	cm$_o$	cm$_o$f	cf
cid$_o$e	c	com$_o$c	cbff
c	cvc	bccid$_o$e	ccid$_o$
c	c	e	cd$_o$d$_o$
o	o	c	o
cmz	czcf	cf	cbcf
cid$_o$e	c	cid$_o$c	cid$_o$d$_o$
cid$_o$e	cid$_o$e	cid$_o$c	cid$_o$c
c	c	c	c
d	c	f	Fofcmdff
cid$_o$fmid$_o$fmid$_o$fmf	cFfF		
e	c	f	
bc	c	bc	b
e	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 6th December 1943.

Districts.	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Moderate easterly winds; dull, with local slight rain; rather cold.

Light easterly winds; dull, with fairly general fog, especially night and morning; rather cold, with some night frost.

Moderate or fresh easterly winds; cloudy, with occasional rain; rather cold

Light variable winds; dull, with local fog; fog becoming more general this evening; rather cold, with some night frost.

Light variable or westerly winds; cloudy, with occasional slight rain; local hill fog; some fog in the South; rather cold.

Light northwest winds; cloudy; occasional showers; rather cold.

16 Orkneys and Shetlands .	As 15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light variable winds; dull, with occasional slight rain; local fog; rather cold.

GENERAL INFERENCE

A ridge of high pressure covers the British Isles. Weather will be generally dull and rather cold, with local slight rain in South, West and North. Fog will be fairly general in central districts, especially tonight

FURTHER OUTLOOK

No important change indicated

Forecasts issued at 1030.

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

7h. Monday December 6th 1943.

10° 5°W. 0° 5°E. 10°

60° 55° 50°

LOW

HIGH

HIGH

LOW

1016 1018 1020 1022 1024 1024 1022 1020 1018

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

Mb In.

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

Pr. 524/4582. W. 8031. 8. 2545. Gp. 318/2 7440.12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Monday 6th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Monday 6th December 1943 — No. 23964

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon ...	290	22·2	-10	NE	2	bf	33	97	33	3	-	-	-	0	0	-
	S. Farnborough	226	21·7	-8	NE'N	2	m	37	97	36	4	-	-	-	0	0	-
	Boscombe Down	417	20·9	-6	NE'E	4	Z_0	38	92	35	6	-	-	5	0	2-3	-
	Thorney Island	10	20·2	-0	ENE	4	Z_0	38	75	30	6	-	7	-	0	2-3	-
	Lympne ...	341	22·0	-6	ENE	3	Z_0	33	92	31	5	-	-	-	0	0	-
	Manston ...	154	22·2	-4	E	3	Z_0	36	85	32	5	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	22·1	-18	NE	4	b	43	75	37	7	-	-	-	0	0	-
	Gorleston ...	5	23·7	0	ENE	2	b	44	86	39	7	-	4	-	0	1	-
	Mildenhall ...	15	23·9	-4	NEE	1	of	34	97	34	0	8	-	-	10	10	1900
	Cranwell ...	203	24·4	-2	-	0	m	40	97	39	4	5	-	-	10	10	5200
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	23·2	-4	NNE	3	m	38	97	37	4	5	8	-	2-8	2-3	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·0	-12	NE	6	b-bc	42	86	37	8	1	-	2	1	2-3	4000
	Bristol ..	209	22·5	-6	ENE	2	Z_0	36	92	34	5	5	-	-	Tr	Tr	2000
	Portland Bill ...	32	18·4	-4	NE	5	bc	39	92	36	7	5	-	-	4-6	4-6	4500
	Plymouth ...	86	18·4	-10	ENE	5	c-bc	40	75	32	7	-	4	-	0	7-8	-
	The Lizard ...	240	17·0	-4	ENE	6	Z_0	43	75	36	5	5	-	-	9	9	1500
	Scilly (St. Mary's)	163	17·5	+8	ENE	5	Z_0	44	85	39	6	6	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	23·6	0	ENE	5	Z_0	36	92	33	6	-	7	-	0	2-3	-
7	Holyhead (Valley)	32	23·9	-6	-	0	Z_0	34	92	31	6	5	-	-	1	1	4000
	Chester (Sealand)	16	24·3	-8	-	0	of+	31	92	29	2	-	-	-	10	10	<150
8	Manchester ...	230	24·6	-8	NE'E	3	bf	33	92	31	3	-	-	-	0	0	-
10	Spurn Head ...	29	24·7	-2	NW	2	m	41	92	38	4	7	-	-	10	10	1500
	Catterick (Sc.) ...	192	25·1	-8	-	0	of	36	97	36	3	5	-	-	10	10	6000
	Tynemouth ...	108	25·3	-4	N	2	cf	42	92	38	3	5	-	-	10	10	1500
11	St. Abbs Head	280	24·2	-2	SW	2	c-bc	43	92	41	7	4	4	-	4-6	7-8	2500
	Leuchars ...	31	24·1	-8	-	0	f+	37	97	37	3	-	-	-	10	10	<150
12	Renfrew (Abbotsl.)	19	24·1	-6	-	0	F	40	97	40	1	-	-	-	10	10	<150
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	24·3	0	S'E	3	Z_0	46	85	42	6	5	-	-	10	10	1800
13A	Tiree	44	27·5	-6	-	0	c/d	47	92	44	7	5	2	-	9	10	1800
13B	Stornoway ...	12	22·3	-10	SSW	3	c	46	92	43	7	5	-	-	9+	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	24·2	-2	-	0	c	40	97	39	7	-	9	-	9+	9+	-
	Wick ...	114	22·5	-2	WSW	1	c	45	92	43	8	5	-	-	10	10	6500
16	Sumburgh ..	15	19·0	-10	WSW	5	c	49	92	47	8	6	3	-	4-6	10	1800
17	Blacksod Point	18	25·0	-6	NE	1	c	48	92	41	7	5	-	-	10	10	4000
18	Malin Head ...	84	24·4	+2	NNE	3	c	47	85	43	8	5	-	-	9+	9+	1500
	Aldergrove ...	294	24·8	-4	-	0	F	42	97	42	1	-	-	-	10	10	<150
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·5	-6	-	0	b-bc	38	92	36	8	5	3	-	2-3	2-3	5100
	Roches Point	22	22·6	-12	NE	3	b	38	97	37	8	-	-	-	0	0	-

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base. (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·3	+2	ENE	2	m	40	85	34	4	5	-	-	10	10	2100	1	*
	Croydon ...	21·5	-2	NE	1	cf	36	92	34	3	5	-	-	10	10	2000	1	*
	S. Farnborough	21·2	+6	NE'E	2	m	38	92	35	4	5	-	-	10	10	4800	1	*
	Boscombe Down	19·9	6	E'N	5	Z_0	39	85	34	6	5	-	-	10	10	3000	0	*
	Thorney Island	19·8	0	E'N	3	Z_0	30	65	29	5	5	7	-	7-8	10	5000	1	*
	Lympne ...	21·6	+2	E'N	3	of+	36	97	36	3	5	-	-	10	10	700	1	*
	Manston ...	21·8	+2	ESE	3	Z_0	36	92	33	5	5	-	-	2-3	2-3	1500	1	*
2	Shoeburyness ...	21·7	-2	NE	3	Z_0	39	75	32	6	-	7	-	2-3	2-3	8000	3	*
	Felixstowe ...	22·3	+6	NE	4	Z_0	44	65	34	6	-	-	-	0	0	-	0	2
	Gorleston ...	22·9	-8	NE	3	bc	38	92	36	7	5	-	-	4-6	4-6	2500	0	3
	Mildenhall ...	22·9	-6	NE	2	bf	32	97	31	0	-	-	-	0	0	-	3	*
	Cranwell ...	23·3	-6	NNW	2	f+	38	97	38	2	-	-	-	10	10	<150	0	*
3	Birmingham ...	23·1	-4	ENE	2	f	38	97	38	1	-	-	-	10	10	<150	1	*
	Upper Heyford	22·2	-2	NE'E	3	m/f	36	97	36	4	5	-	-	10	10	300	1	*
4	Ross-on-Wye	21·4	-16	NE	4	Z_0	40	85	36	6	5	-	-	10	10	1000	1	*
5	Hartland Point	18·1	+1	NE	4	bc	42	75	34	8	2	4	2	2-3	4-6	2500	0	4
	Bristol ..	21·2	-8	ENE	3	Z_0	39	92	37	5	5	-	-	4-6	10	1200	1	*
	Portland Bill ...	17·8	+2	NE	6	o	42	92	40	7	5	-	-	10	10	2500	1	*
	Plymouth ...	17·2	-4	ENE	5	Ir_0	40	85	35	6	5	-	-	10	10	5300	1	3
	The Lizard ...	14·8	-6	ENE	6	Z_0	44	92	42	5	5	-	-	10	10	1000	0	5
	Scilly (St. Mary's)	16·3	+2	NE'E	5	Z_0	44	85	40	6	5	-	-	10	10	800	1	5
	Guernsey ...																	
6	Pembroke ...	20·8	0	E'N	4	bc	37	92	34	7	8	-	-	4-6	4-6	1500	0	2
7	Holyhead (Valley)	23·3	-2	-	0	Z_0	35	97	34	6	5	-	-	1	1	6000	1	1
	Chester (Sealand)	23·5	-6	-	0	of+	34	97	33	2	5	-	-	10	10	4000	0	*
8	Manchester ...	23·6	-6	E'S	3	bf	35	92	33	3	5	-	-	Tr	Tr	4000	0	*
10	Spurn Head ...	23·5	-6	N	2	Z_0	42	92	40	5	5	-	-	10	10	1500	0	3
	Catterick (Sc.) ...	24·5	0	-	0	cf	37	97	37	3	5	-	-	10	10	4000	0	*
	Tynemouth ...	24·5	-4	SW	2	m	42	92	40	4	5	-	-	10	10	1500	0	2
11	St. Abbs Head	22·8	-4	-	0	Z_0	43	92	41	6	5	-	-	7-8	7-8	2500	0	2
	Leuchars ...	22·3	-14	WSW	1	∞	39	97	39	4	6	7	-	2-3	10	5000	1	*
12	Renfrew (Abbotsl.)	23·4	0	-	0	f	40	97	40	2	-	-	-	10	10	<150	1	*
	Eskdalemuir ...	23·3	-2	-	0	f	36	97	36	2	5	-	-	10	10	<150	1	*
	Point of Ayre ...	23·3	-6	S'W	3	bf	42	85	38	3	-	-	-	0	0	-	0	2
13A	Tiree	23·3	+4	W	1	id$_0$	47	97	46	7	5	2	-	7-8	10	1800	1	0
13B	Stornoway ...	21·7	-2	-	0	c	44	97	44	7	5	-	-	10	10	1800	1	0
15	Dalwhinnie ...	23·2	-4	-	0	0	38	97	38	7	5	-	-	10	10	2500	1	*
	Aberdeen † ...	22·4	-6	-	0	b-bc	39	97	38	3	5	-	-	2-3	2-3	2500	1	1
	Wick ...	21·5	-2	W	2	id$_0$	45	92	43	8	6	2	-	10	10	1200	1	*
16	Sumburgh ..	18·8	+6	W'N	5	c	47	85	42	8	5	7	-	4-6	9	2000	1	2
17	Blacksod Point	23·8	-6	-	0	c	44	92	42	7	8	-	-	9+	9+	4000	1	1
18	Malin Head ...	23·5	-2	WSW	2	id	45	97	44	5	-	2	-	10	10	800	2	1
	Aldergrove ...	23·6	-4	-	0	F	42	97	41	1	-	-	-	10	10	<150	1	*
19	Birr Castle ...	23·0	-2	NNW	1	of	40	97	39	3	-	-	-	10	10	<150	1	*
20	Valentia Obsy.	22·7	+2	ENE	2	b-bc	40	92	39	8	5	-	-	2-3	2-3	3500	1	1
	Roches Point	21·6	-6	NNE	3	b-bc	37	97	36	8	5	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 5th Hrs. (38)
1	London (Kew)	44	37	32	-	-	2·6
	Croydon ...	42	32	27	-	0·2	3·6
	S. Farnborough	43	36	26	-	-	4·6
	Boscombe Down	42	37	32	-	-	6·6
	Thorney Island	43	37	30	Tr	-	*
	Lympne ...	41	32	28	-	-	6·6
	Manston ...	43	34	32	-	-	6·6
2	Shoeburyness ...	45	35	29	-	-	6·5
	Felixstowe ...	45	42	37	-	-	4·9
	Gorleston ...	44	38	28	-	-	1·2
	Mildenhall ...	42	29	23	-	Tr	2·8
	Cranwell ...	40	40	34	-	Tr	0·4
3	Birmingham ...	40	37	27	-	-	1·3
	Upper Heyford	44	35	29	-	-	*
4	Ross-on-Wye	40	37	24	-	-	5
5	Hartland Point	43	41	39	-	-	5·1
	Bristol ..	41	35	29	Tr	Tr	4·4
	Portland Bill ...	42	36	*	-	-	*
	Plymouth ...	42	39	34	-	-	5·0
	The Lizard ...	43	42	*	-	-	2·9
	Scilly (St. Mary's)	43	43	*	-	-	4·2
	Guernsey ...						
6	Pembroke ...	43	34	-	-	-	6·5
7	Holyhead (Valley)	47	31	23	-	-	*
	Chester (Sealand)	43	29	20	-	Tr	1·0
8	Manchester ...	41	30	22	-	-	*
10	Spurn Head ...	42	39	*	-	-	0·0
	Catterick (Sc.) ...	42	33	24	-	-	0·0
	Tynemouth ...	45	41	40	-	-	*
11	St. Abbs Head	46	42	*	-	-	*
	Leuchars ...	45	34	25	-	-	0·0
12	Renfrew (Abbotsl.)	43	38	31	-	-	0·0
	Eskdalemuir ...	39	34	31	-	-	0·0
	Point of Ayre ...	48	42	*	-	-	0·0
13A	Tiree	49	45	42	-	-	0·0
13B	Stornoway ...	47	43	42	-	1	0·0
15	Dalwhinnie ...	41	38	35	-	-	0·0
	Aberdeen † ...	45	38	31	-	-	0·0
	Wick ...	47	43	38	0·4	Tr	*
16	Sumburgh ..	49	47	45	Tr	0·2	0·0
17	Blacksod Point	43	40	*	-	-	*
18	Malin Head ...	47	44		1	1	0·0
	Aldergrove ...	42	40	39	0·2	0·1	0·0
19	Birr Castle ...	38	38	38	-	-	0·0
20	Valentia Obsy.	43	34	27	Tr	Tr	0·0
	Roches Point	46	36	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

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

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109				5-	02764	22328	57	02753	21428	5-	52658	26568
115	52	02841	24327	52	02835	24428	53	02844	24426	52	02844	28357
203												
206	57	05662	20027	67	05564	08128	57	05665	24128	57	05665	24328
210	57	02965	22227	57	02863	20228	57	61864	20268	57	02864	22228
219	5-	02968	22228	57	02854	18128	0	345		5-	51748	24358
230	-			57	02757	00028	52	02865	00028	52	61854	00068
245	07	02797	26127	07	08497	24127	53	05562	22117	52	05664	00027
260	07	47		03	43286	00046				07	68	
277	57	02745	00028				5-	45395	00045			
279	5-	29116	06228	5-	08448	06128	53	08463	00044	--	46369	06149
285	--	02								5-	22747	32227
288	5-	05677	00027	07	08484	00025	02	45398	00048	5-	08468	00048
575	57	05654	00028	52	05655	28128	52	51565	00058	57	21546	00057
301	5-	47377	10227	00	47890	00040	06	45390	06144	50	08453	04143
321	54	05575	00047	00	47290	00040	5-	45168	00058	5-	45166	02146
299	54	05		5-	05		5-	05548	29128	5-	05	
292	53	05666	00277	04	47891	00023	5-	08468	00048	5-	08468	00028
310										--	48	
614	53	47		03	47		5-	08				

13h. G.M.T. 5th Dec. 18h. G.M.T. — 01h. G.M.T. 6th Dec. 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	03	04690	00013	00	04780	26101	00	00790	00000	04	81690	81102
334										--	42644	22117
340	53	43364	16246	5-	45265	16145	57	43365	30148	5-	45267	30247
136				5-	08438	01128	--	46009	04149	--	48109	63149
336												
350	04	05591	06201	50	47365	04145	--	57190	04159	--	46109	06359
368	00	05590	24310	00	08490	06400	51	05690	06313	57	05563	44614
379	00	06630	22310	4-	05548	44318	5-	05538	02328	5-	08418	06348
390	50	05662	04312	5-	05557	04417	00	41490	00480	07	05690	04315
382	00	05590	06140	00	08490	03320				3-	05525	07228
438	50	05563	04613	00	05620	04600	04	05590	06321			
430				00	05		57	01		5-	05	
409	57	01851	24424	04	01790	03313	04	01790	04314	57	05654	04128

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 6th Dec.
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 ...	bxcfm	c+cm	bcmcm
Croydon ...	bmo-dz	bmbf	bf+xcf
Greenwich ...	bfm	b	bxcm
Camden Square	c	bc	*
Kensington ...	bc	bc	bc
Hampstead ...	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·5 8/12h 5th Min. Time 0·1 2/4h 6th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h %	Humidity 9h % To-day
Kew	44	37	32	-	-	2·6	*	*
Croydon ...	42	32	27	-	0·2	3·6	*	*
Greenwich ...	43	34	29	-	Tr	4·8	78	87
Westminster ...	45	37	33	-	-	*	90	85
Regents Park ...	44	35	30	-	-	*	61	87
Camden Square	44	34	28	-	-	*	*	89
Kensington ...	44	36	*	-	-	*	88	91
Hampstead ...	43	35	26	-	-	*	*	83

SECRET

Page 1

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

BRITISH SECTION

Tuesday 7th December 1943

No. 2956

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20·2	-12	NEE	3	m/f	42	65	33	4	5	7	–	4-6	10	5100
	Croydon ...	20·3	-18	ENE	2	m	41	75	35	4	–	7	2	0	9+	–
	S. Farnborough	20·2	-10	NE'N	3	cf+	42	73	34	3	5	7	–	4-6	9+	3000
	Boscombe Down	19·5	-8	E'N	3	z_o	42	75	34	5	5	–	–	10	10	5000
	Thorney Island	19·5	-2	E	3	z_o	43	75	35	5	–	7	–	0	9	–
	Lympne ...	20·6	-8	ENE	2	m	38	92	36	4	5	–	–	9+	9+	5000
	Manston ...	21·3	-8	E's	3	z_o	39	92	37	5	5	–	–	10	10	600
2	Shoeburyness ...	21·9	0	ENE	2	z_o	43	85	39	6	5	3	–	4-6	9+	3500
	Felixstowe ...	21·5	-14	NE	2	z_o	44	65	34	6	5	7	–	0	9+	4200
	Gorleston ...	22·3	-6	E	1	z_o	46	75	40	6	–	4	–	2-3	4-6	–
	Mildenhall ...	22·1	-14	–	0	m/f	37	97	37	4	5	–	2	4-6	7-8	4000
	Cranwell ...	22·7	-12	NE	1	f	42	97	42	3	–	–	–	10	10	<150
3	Birmingham ...	22·5	-6	SSW	2	cf	40	97	39	3	5	–	–	10	10	450
	Upper Heyford	21·1	-14	NE'E	4	z_o	40	85	37	5	5	2	–	7-8	10	2000
	Ross-on-Wye	21·2	-10	NE'N	3	z_o	41	92	39	6	5	–	–	10	10	700
5	Hartland Point	17·9	-2	ENE	3	c	41	85	37	7	5	–	–	9+	9+	1500
	Bristol ...	20·6	-6	NE'E	3	z_o	41	85	36	6	5	7	–	9+	10	2500
	Portland Bill ...	19·8	+2	NE	5	0	43	92	41	7	5	–	–	10	10	2500
	Plymouth ...	17·6	-6	ENE	4	z_o	44	85	40	6	6	2	–	9+	10	1500
	The Lizard ...	16·5	-3	ENE	5	z_o	45	97	45	6	5	–	–	10	10	500
	Scilly (St. Mary's)	17·2	-6	ENE	4	o/d	45	97	44	6	5	–	–	10	10	800
	Guernsey ...															
6	Pembroke ...	20·8	0	ENE	4	cf	42	75	36	6	5	–	–	10	10	2000
7	Holyhead (Valley)	22·1	-8	ENE	1	bc	44	85	39	7	1	4	5	0	2-3	–
	Chester (Sealand)	23·1	-6	–	0	cf+	42	92	40	3	–	–	–	0	0	–
8	Manchester ...	22·6	-10	–	0	cf+	43	85	40	6	5	–	–	1	1	3000
10	Spurn Head ...	23·7	+4	WNW	2	m	44	92	42	4	2	3	–	7-8	9	800
	Catterick (Sc) ...	23·9	-2	–	0	m	42	92	39	4	5	–	–	10	10	3000
	Tynemouth ...	23·7	-4	W	3	m	43	85	38	4	5	–	–	9+	9+	4800
11	St. Abbs Head	22·4	-4	–	0	c	44	92	42	7	5	4	–	7-8	9+	3000
	Leuchars ...	21·8	-20	SW	2	z_o	45	92	42	5	5	7	–	2-3	10	5000
12	Renfrew (Abbotsl.)	22·5	-10	–	0	m/f	45	97	45	4	5	–	–	2-3	9+	1800
	Eskdalemuir ...	22·3	-10	–	0	z_o	39	97	39	5	5	–	–	10	10	700
	Point of Ayre ...	22·9	-6	S'W	1	m	41	65	40	4	5	–	–	2-3	9	4000
13A	Tiree	22·8	-10	NW	1	i_o	48	97	47	7	5	2	–	7-8	10	1500
13B	Stornoway ...	22·4	-4	–	0	c	44	92	41	8	5	7	–	2-3	9+	2800
15	Dalwhinnie ...	22·1	-4	N	1	0	41	97	40	8	5	–	–	10	10	2000
	Aberdeen ...	21·8	-8	NW'W	2	i_o	44	85	41	4	6	2	–	1	10	1500
	Wick ...	22·0	-6	NNW	2	i_o	43	92	40	7	5	7	–	7-8	10	600
16	Sumburgh ...	19·7	0	W'N	4	c	45	85	40	8	8	4	–	7-8	9+	2000
17	Blacksod Point	23·7	-6	N'E	1	c	46	92	44	7	5	–	–	10	10	2500
18	Malin Head ...	22·8	-10	N	1	i_o	46	97	46	6	–	2	–	10	10	800
	Aldergrove ...	23·1	-8	–	0	m/d	44	97	44	4	5	–	–	4-6	10	1200
19	Birr Castle ...	22·4	-8	N	1	c	43	97	42	7	5	–	–	10	10	2500
20	Valentia Obsy.	21·9	-12	NNE	3	bc	46	85	42	8	8	4	3	4-6	4-6	1200
	Roches Point	21·5	-8	NNE	3	bc	45	92	43	8	5	–	5	1	4-6	1500

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	19·9	+2	NE	3	m	42	75	34	4	5	–	–	9	9	3500	1	*
	Croydon ...	20·3	+2	ENE	2	cf	40	92	38	4	–	7	–	7-8	7-8	8000	0	*
	S. Farnborough	19·7	+2	NE'N	2	bc+	40	85	35	3	–	–	7	0	4-6	–	1	*
	Boscombe Down	19·8	+6	NE	3	z_o	39	75	32	5	–	–	–	0	0	–	0	*
	Thorney Island	18·9	-2	NE'E	2	z_o	39	85	34	6	–	7	3	0	4-6	–	0	*
	Lympne ...	20·6	+10	NE	4	m	37	97	37	4	5	–	–	9	9	6000	1	§
	Manston ...	20·7	+2	E'N	2	m	38	85	36	4	–	3	–	9+	9+	8000	1	*
2	Shoeburyness ...	21·4	0	ENE	3	z_o	41	85	38	6	5	–	–	9+	9+	7000	1	*
	Felixstowe ...	21·7	+2	NNE	1	z_o	40	75	35	6	–	3	–	0	7-8	–	0	2
	Gorleston ...	21·9	0	N	1	bc	41	85	38	7	5	–	–	4-6	4-6	2500	0	2
	Mildenhall ...	21·4	-2	–	0	bc+	38	97	38	2	5	–	–	4-6	4-6	6800	1	*
	Cranwell ...	22·1	-2	–	0	cF–	41	97	41		5	–	–	10	10	2000	0	*
3	Birmingham ...	21·7	0	NE	2	cf+	41	97	40	3	5	–	–	10	10	800	1	*
	Upper Heyford	20·8	+2	ENE	4	z_o	40	92	38	5	5	–	–	9+	9+	6000	1	*
	Ross-on-Wye	20·9	0	NE'N	2	z_o	40	92	38	5	5	–	–	9+	9+	3000	1	*
5	Hartland Point	18·7	+2	E	3	c	42	75	36	7	5	–	–	9+	9+	1500	1	3
	Bristol ...	21·2	+10	NE	1	m	38	75	32	4	–	7	–	0	2-3	–	1	*
	Portland Bill ...	18·4	-2	NE	5	0	43	92	41	7	5	–	–	10	10	2500	1	4
	Plymouth ...	15·0	+10	ENE	3	z_o	43	85	40	4	5	–	–	10	10	1200	1	2
	The Lizard ...	17·3	+8	ENE	4	bc	46	97	46	3	5	–	–	10	10	600	1	4
	Scilly (St. Mary's)	17·5	0	NE'E	4	o/d	46	97	45	6	5	–	–	10	10	600	1	4
	Guernsey ...																	
6	Pembroke ...	20·3	-4	NE'E	3	z_o	43	85	38	6	5	–	–	10	10	1500	1	2
7	Holyhead (Valley)	21·3	-2	–	0	z_o	38	97	35	5	–	4	–	0	7-8	3000	0	1
	Chester (Sealand)	22·3	+2	–	0	cf	39	97	34	2	5	7	–	2-3	9+	4000	0	*
8	Manchester ...	22·5	+4	–	0	cf+	37	92	35	1	–	7	6	0	9+	–	1	*
10	Spurn Head ...	22·5	+4	NNW	2	m	42	92	40	4	5	–	–	9+	9+	800	0	2
	Catterick (Sc) ...	23·4	+2	–	0	m	40	97	39	4	5	–	–	10	10	3700	1	*
	Tynemouth ...	22·8	-2	W	0	m	43	85	39	4	5	–	–	9+	9+	2800	0	2
11	St. Abbs Head	21·3	-4	–	0	0	43	92	43	6	5	–	–	10	10	2500	0	2
	Leuchars ...	21·6	+2	–	0	cf+	43	92	41	3	5	7	–	1	10	5000	1	*
12	Renfrew (Abbotsl.)	22·2	-2	–	0	cf+	43	97	43	3	5	–	–	10	10	1400	1	*
	Eskdalemuir ...	22·3	-2	–	0	z_o	39	97	38	5	5	–	–	10	10	500	1	*
	Point of Ayre ...	22·3	-4	S	1	c	43	92	41	7	5	–	–	9+	9+	4000	1	1
13A	Tiree	22·7	+2	NNW	3	i_o	47	92	45	6	5	2	–	2-3	10	1000	1	2
13B	Stornoway ...	22·8	+2	–	0	c	41	92	39	7	5	7	–	7-8	10	2000	0	2
15	Dalwhinnie ...	22·7	0	–	0	i_o	40	97	40	4	5	2	–	7-8	10	1000	1	*
	Aberdeen ...	22·1	+6	NW'W	2	r_o	44	97	43	4	–	2	–	10	10	2500	1	*
	Wick ...	22·3	+6	W	1	c	41	92	39	7	5	7	8	4-6	10	3000	1	*
16	Sumburgh ...	20·c	+6	WNW	4	cjp	44	75	37	8	2	3	8	2-3	9+	2000	1	3
17	Blacksod Point	23·4	+4	NNW	1	i_o	46	97	45	7	6	–	–	10	10	2500	1	2
18	Malin Head ...	22·4	0	W	1	c	46	92	44	8	5	–	–	10	10	800	2	1
	Aldergrove ...	23·3	+2	–	0	F+	43	97	43	1	–	–	–	10	10	<150	1	*
19	Birr Castle ...	22·1	+2	N	1	c	43	97	42	7	5	–	–	10	10	2500	1	*
20	Valentia Obsy.	22·2	+4	NE'E	3	bc	45	85	41	8	6	4	3	4-6	4-6	2200	1	2
	Roches Point	21·1	+6	NNE	3	c	42	97	41	8	5	–	–	4-6	9	1500	1	3

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 6th (39)	Weather. 13h.—18h. 6th (40)	Weather. 18h. 6th to 1h. 7th (41)	Weather. 1h.–7h. 7th (42)
London (Kew)	cirfm	cz	cz	cpr$_o$cm
Croydon ...	cm	embcf	b-f-f	cpi$_o$of
S. Farnborough	cmfmf	czfbcf	bcb, cf	cfomcm
Boscombe Down	cm$_o$cir$_o$m$_o$cz$_o$	cz$_o$bcz$_o$cz$_o$	bm	bcmofcm
Thorney Island	cm$_o$ir$_o$m$_o$	cm$_o$	m$_o$e	cm$_o$cm
Lympne ...	ofcm	cm	cmm$_o$c	bcbm$_o$cm$_o$
Manston ...	cm$_o$	ocm$_o$	cm$_o$c	bcbbm$_o$w
Shoeburyness ...	bcm$_o$cm$_o$	cm$_o$	cm	cf
Felixstowe ...	bcz$_o$z$_o$	cz$_o$bcm$_o$	m$_o$c	dfecmfe
Gorleston ...	bcz$_o$	cbczbcf	coffeffe	Ffe
Mildenhall ...	bfxbF	cmefbcf	bcfofcm	cmofof
Cranwell ...	F	cfcfcf	Fcm$_o$	cf
Birmingham ...	aFf	affi	cfr$_o$	cof
Upper Heyford	cmcm$_o$	ir$_o$cm$_o$	cir$_o$m$_o$cm	cmoff
Ross-on-Wye	om$_o$p$_o$o	cm$_o$	cmcm	cmdf
Hartland Point	bbcir$_o$	c	cbcbz$_o$	bcbz$_o$
Bristol ...	cm$_o$ir$_o$m$_o$	cz$_o$bm	bfx	ofxfwcf
Portland Bill ...	o	o	bc	ee
Plymouth ...	id$_o$d$_o$d$_o$m$_o$	cm$_o$cm	bcmcmbcm	bcmx
The Lizard ...	om	omdf	ocbcf	ozbcm
Scilly (St. Mary's)	cd$_o$	cd$_o$	e	e
Guernsey ...				
Pembroke ...	cr$_o$m$_o$	cm$_o$	bc	bcm$_o$
Holyhead (Valley)	bm$_o$xbcb	bcm$_o$	cxcm$_o$	bcebcm$_o$
Chester (Sealand)	cff	bffc	cffir$_o$	FF
Manchester ...	bmff	bifmF	cicrFF	cbcFF
Spurn Head ...	cf	cf	bcm	bcm
Catterick (Sc) ...	cm	cm	c	cfcmcf
Tynemouth ...	cm	cm	emm$_o$	bcom$_o$
Leuchars ...	cm$_o$	cm$_o$om$_o$	omr$_o$o	om$_o$rrorr
Renfrew (Abbotsl.)	cm$_o$m$_o$	cm$_o$cm$_o$f	crfcm	errm$_o$cm$_o$
Eskdalemuir ...	cfcm	cc$_o$fcf	cfdd$_o$f	cfir$_o$cmcfid$_o$
Point of Ayre ...	+cm$_o$	cm$_o$	cm$_o$pr$_o$	cpr$_o$m
	cffm$_o$	m$_o$e	e	e
Tiree	cr$_o$cir$_o$	cir$_o$cir$_o$	cm$_o$cr$_o$r$_o$	cr$_o$m$_o$bc
Stornoway ...	cir$_o$cid$_o$c	c	cbcc	cwcbc
Dalwhinnie ...	o	oir	*	oir$_o$
Aberdeen ...	cfcir$_o$m	cr$_o$r$_o$m	cr$_o$r$_o$cm$_o$cm$_o$	
Wick ...	cid$_o$m$_o$pr$_o$cid$_o$	cc$_o$id$_o$c	cc$_o$pr$_o$ir$_o$	bcc
Sumburgh ...	cir$_o$c	cpr$_o$c	cbcc	cbc
Blacksod Point	c	r	t	d
Malin Head ...	d	r	d	t
Aldergrove ...	fmdfm	cmcmcF	d$_o$d$_o$F	d$_o$d$_o$FfF
Birr Castle ...	f	c	*	f
Valentia Obsy.	bc	bc	c	b
Roches Point	bc	bc	bc	bc

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

Districts	
1 S.E. England	Light northeast wind; clear intervals; local fog; rather cold.
2 E. England ...	Light variable winds; some mist or fog; clear intervals locally; rather cold.
3 E. Midlands ...	
4 W. Midlands	
5 S.W. England	AS 1
6 South Wales	Light variable winds; some mist or fog; clear intervals locally; 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 ...	Light southwest wind; cloudy; slight rain locally; rather cold.
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	AS 13-15
17 N.W. Ireland	AS 6-12
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

A ridge of high pressure extends from the Azores to the British Isles, and a deep depression off South Greenland is moving northnortheast. Mist or fog will persist in many places, and there will be local rain in the North.

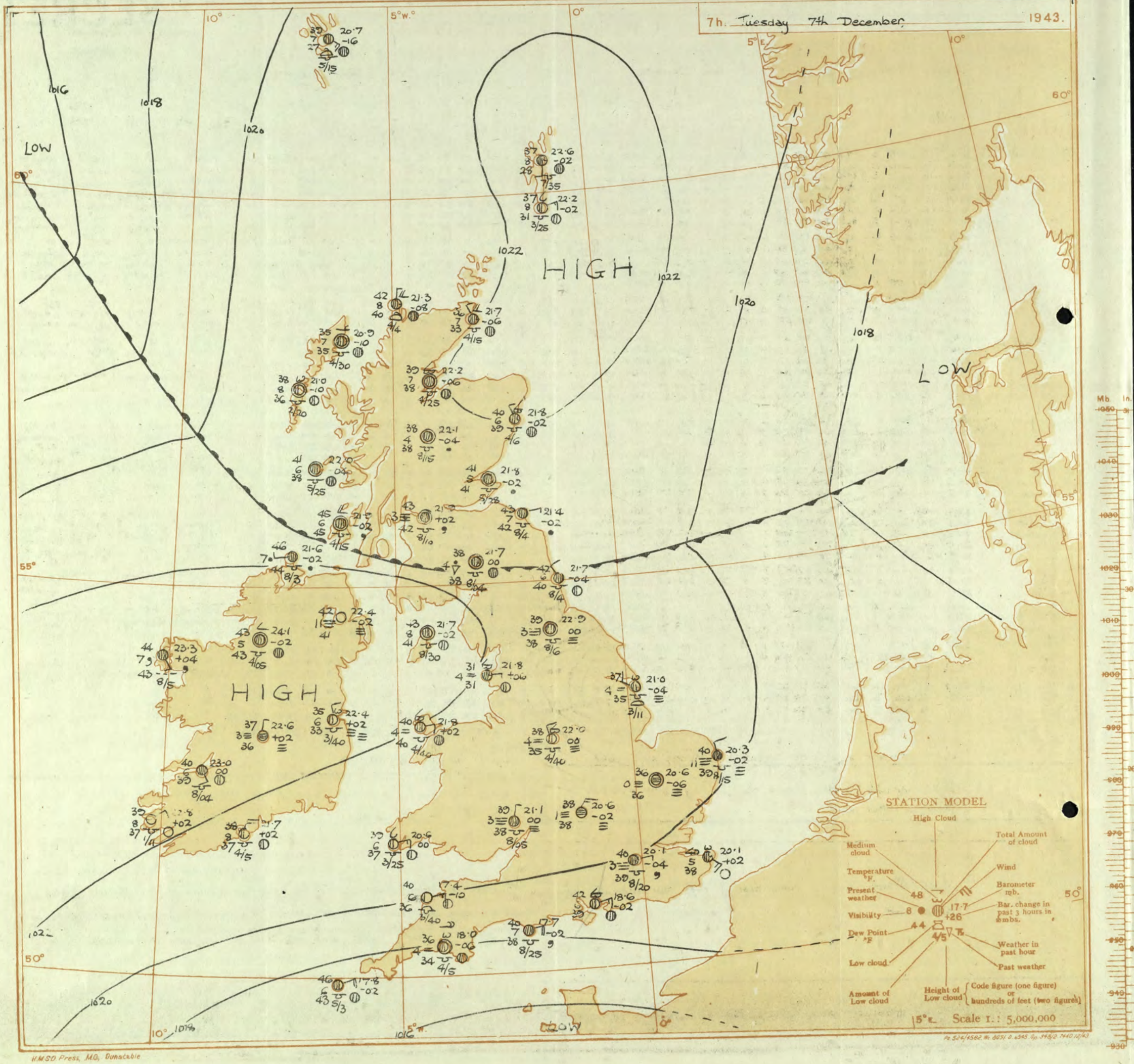
FURTHER OUTLOOK

Little change

Forecasts issued at 1030.

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

7h. Tuesday 7th December 1943.



STATION MODEL

Scale 1.: 5,000,000

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Tuesday 7th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Tuesday 7th December, 1943 — No. 29965

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·3	-2	E	1	of	39	97	38	3	5	-	-	10	10	5000
	S. Farnborough	226	20·0	0	N'E	2	of	40	85	37	3	-	7	-	10	10	7900
	Boscombe Down	417	19·5	0	NNE	4	m	39	85	35	4	-	3	-	8	8	-
	Thorney Island	10	18·6	-2	NE'E	3	Z_0	41	76	32	5	-	7	-	9+	9+	7800
	Lympne ...	341	20·5	-10	ENE	3	Z_0	40	75	33	5	-	3	-	2-3	2-3	8000
	Manston ...	154	20·1	-2	E	3	c-bc	43	75	36	7	5	3	-	1	7-8	5000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	20·8	0	N	3	Z_0	38	97	38	5	6	-		9	9	5000
	Gorleston ...	5	21·1	-10	N	2	f-	42	92	39	3	5	-	-	9+	9+	2000
	Mildenhall ...	15	21·3	-6	NE'N	1	m	34	97	34	4	5	-	-	10	10	3500
	Cranwell ...	203	21·5	-6	N'W	2	m	40	97	39	4	5	-		7-8	7-8	2300
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22·1	+2	N'E	4	m	38	97	38	4	5	-	-	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·7	0	NE	3	Z_0	40	92	38	6	-	-	-	0	0	-
	Bristol ...	209	20·8	+2	E	1	F+	34	97	34	1	-	-	-	10	10	<150
	Portland Bill ...	32	18·0	-2	NE	4	c	41	92	39	7	5	-	-	9	9	2500
	Plymouth ...	86	18·8	-2	N	0	m	36	92	34	4	6	-	-	2-3	4-6	2500
	The Lizard ...	240	17·7	-2	N	3	m	39	92	37	5	5	-	-	4-6	4-6	1000
	Scilly (St. Mary's)	163	18·7	+2	NE	3	Z_0	47	97	46	6	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	20·8	0	E	3	Tr	42	85	37	6	8	-	-	9+	9+	1500
7	Holyhead (Valley)	32	21·5	-6	NE	2	Z_0	41	92	39	5	-	-	-	0	0	-
	Chester (Sealand)	16	22·1	-2	-	0	F	35	97	35	0	-	-	-	10	10	<150
8	Manchester ...	230	22·2	-2	NE	1	bF	35	97	35	1	-	-	-	Tr	1	8000
10	Spurn Head ...	29	22·1	-2	N'W	3	m	39	97	39	4	5	3	-	4-6	7-8	800
	Catterick (Sc.) ...	192	23·1	-2	N'W	1	of	39	97	39	3	5	-	-	10	10	3700
	Tynemouth ...	108	22·8	-4	W	3	Z_0	42	85	38	6	5			9+	9+	2500
11	St. Abbs Head	280	21·6	+2	NNW	1	irO	45	97	45	6	5	-	-	10	10	1500
	Leuchars' ...	31	22·4	-2	-	c	rr	42	97	42	4	5	-	-	10	10	2700
12	Renfrew (Abbotsl.)	19	22·5	+2	-	0	of	43	97	43	3	5	-	-	10	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	22·3	0	-	0	c	40	97	40	8	5	-		10	10	2000
13A	Tiree	44	22·4	-4	E	1	irO	45	97	45	6	5	7	-	9	9+	1800
13B	Stornoway ...	12	22·4	-4	-	0	c	38	97	36	8	8	-	-	4-6	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	22·5	-2	NW	2	c-bc	41	92	39	7	5	7	-	4-6	7-8	4000
	Wick ...	114	22·6	-2	NW	1	bc	36	97	35	9	-	3	1	0	4-6	-
16	Sumburgh ..	15	21·8	+6	N	3	c	39	75	33	8	6	3	1	4-6	9+	2500
17	Blacksod Point	18	23·3	+2	-	0	c-bc	41	97	40	7	8	-	-	7-8	7-8	2500
18	Malin Head ...	84	22·1	0	WSW	2	c	46	92	44	7	3	-	-	10	10	800
	Aldergrove ...	294	23·0	-2	-	0	df	43	97	42	1	-	-	-	10	10	<150
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·3	-2	E'N	3	bc	44	86	40	8	5	-	-	4-6	4-6	3500
	Roches Point	22	21·5	-4	NNE	3	c-bc	41	97	40	8	6	-	-	7-8	7-8	2500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
19·7	-2	NE	2	m	41	92	39	4	5	-	-	10	10	2000	1	*
20·1	-4	ENE	1	of	40	97	39	3	5	-	-	10	10	2000	1	*
19·9	+2	N'E	2	m	41	92	39	4	5	-	-	10	10	1000	1	*
19·7	-2	NE	2	m/f	39	97	38	4	5	-	-	10	10	800	0	*
18·6	-2	NE	3	Z_0	42	92	39	5	-	7	-	0	7-8	7800	0	*
18·8	0	ENE	3	Z_0	41	85	38	6	5	-	-	7-8	7-8	3000	1	4
20·1	+2	ESE	3	Z_0	40	92	38	5	-	3	-	0	9	-	1	*
20·3	-4	NE	1	cF+	38	97	38	1	5	-	-	9+	9+	1500	1	*
20·3	-6	N	3	m	39	97	39	4	5	-	-	10	10	3000	1	1
20·3	-2	NNW	2	cF+	40	97	39	1	5	-	-	10	10	1500	1	*
20·6	-6	-	0	F	36	97	36	0	-	-	-	10	10	<150	1	*
20·9	-4	NW'N	2	m	37	97	36	4	5	-	-	9+	9+	3500	0	*
21·2	0	NE	1	of	41	92	39	2	5	-	-	10	10	450	1	*
22·6	-2	N'E	3	F	38	97	38	1	-	-	-	10	10	<150	1	*
21·1	0	N	1	cf	39	97	38	3	5	-	-	10	10	600	1	*
17·4	-10	ENE	3	Z_0	40	85	36	6	4	-	-	2-3	2-3	4000	0	3
20·7	-2	-	0	of	35	97	35	2	5	-	-	10	10	1000	1	*
17·7	-2	NE	4	c	40	92	38	7	5			10	10	2500	1	*
18·0	-6	-	0	m	36	92	34	4	5	3	2	4-6	7-8	2500	0	1
17·2	-4	N	2	m	38	97	38	4	-	-	-	2-3	2-3	-	5	*
17·8	-2	NE'N	4	Z_0	46	85	43	6	5	-	-	7-8	7-8	800	1	4
20·6	0	NE	3	bc	39	92	37	6	5	4	-	2-3	4-6	2500	0	2
21·8	+2	ENE	2	m	40	97	40	4	5	7	-	4-6	7-8	4000	1	4
21·7	-2	-	0	F	36	97	35	0	-	-	-	10	10	<150	1	*
21·9	-2	-	0	of	33	97	33	0	-	-	-	10	10	<150	1	*
21·0	-4	NNW	2	m	37	92	35	4	7	3	-	2-3	4-6	1100	0	1
22·5	0	-	0	of	39	97	38	3	5	-	-	10	10	2000	0	*
21·7	-4	WNW	2	Z_0	42	92	40	6	6	-	-	10	10	1500	0	2
21·4	-2	NE	1	c	43	97	42	7	5	-	-	10	10	1500	1	2
21·8	-2	-	0	Z_0	41	97	41	5	6	-	-	7-8	10	2800	1	*
21·3	+2	-	0	df	43	97	42	3	5	-	-	10	10	1000	1	*
21·7	0	-	0	pr	38	97	38	4	5	-	-	10	10	400	1	*
21·7	-2	-	0	c	43	92	41	8	6	-	-	10	10	3000	0	0
22·6	+2	N	1	f	37	97	37	3	-	-	-	10	10	<150	1	*
22·8	+2	NE'N	2	b	39	92	37	4	5	-	-	Tr	Tr	1100	1	1
21·7	+2	N'E	4	bc	38	97	37	8	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 6th Hrs. (38)
43	40	36	Tr	Tr	0·0
43	39	36	-	Tr	0·0
43	37	27	-	-	0·0
43	35	29	Tr	-	0·8
45	38	30	-	-	*
39	37		-	-	
39	39	36	-	Tr	0·0
43	35	30	-	-	0·0
45	36	35	-	0·1	0·1
48	33	30	-	-	4·8
40	33	29	Tr	Tr	0·0
43	36	35	-	0·3	0·0
40	40	38	Tr	0·1	0·0
41	37	34	0·1	Tr	
42	38	36	-	-	0·0
43	39	37	0·1	-	0·1
42	33	25	0·1	Tr	0·0
44	39	*	-	-	*
48	34	26	2	-	0·6
46	37	*	Tr	Tr	0·0
46	46	*	Tr	-	0·0
43	38	*	1	-	0·0
45	34	31	-	-	*
43	33	28	Tr	1	1·3
54	38	30	-	Tr	*
44	36	*	-	-	0·0
43	38	27	-	-	0·0
44	41	40	-	-	*
45	43	*	-	1	
45	40	35	-	3	0·0
45	42	36	Tr	0·2	0·0
40	37	34	-	Tr	0·0
50	48	*	-	-	1·0
44	35	34	-	-	0·0
47	37	32	-	Tr	3·9
46	38	*	0·1	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 6th December 18h. G.M.T. | 01h. G.M.T. 7th December 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	57	02844	29226	57	02845	24327	57	01842	00024	57	01753	12104
115	22	02844	32227	73	02854	32286	22	81941	04187	22	02844	32126
203										5-	03	
206	57	02855	00067	57	02756	04128	57	05756	00028	57	05754	00028
210	02	62658	22168	52	21644	28158	52	02864	22127	52	02864	00028
219	57	02842	02158	54	02853	04256	04	01893	00014	53	01852	00014
230	52	05654	00068	5-	05648	00068	62	62647	00068	5-	61648	00068
245				52	62444	24168	52	02757	00068	52	05665	24127
260	--	44		--	46		--	67		--	48	
277	5-	57208	00058	--	46203	00048	--	48209	00059	5-	57248	00068
279	--	46005	00049	--	44109	00049	5-	45148	00048	--	41309	00049
285	5-	42								5-	03	
288	5-	47368	18124	5-	43348	00048	5-	08468	00028	5-	08158	00028
575	02	52428	00058	57	09645	00047	02	52328	00048	51	05524	00028
301	40	21473	07243	5-	45167	00047	00	43390	00040	07	08490	08117
321	5-	43267	00047	5-	45264	00064	--	46009	00049	--	46009	00049
290	5-	05		5-	08		5-	05645	28115	50	05	
292	57	08467	00028	00	45390	00040	--	46009	00049	5-	08460	
310										20	02	
614	5-	45345	06249	5-	41447	06247	57	62		60	45	

13h. G.M.T. 6th December 18h. G.M.T. | 01h. G.M.T. 7th December 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	07	02390	04315	07	02790	00017	53	05664	00025	54	08553	00014
334	--	02645	18216							--	01335	00016
340	5-	45357	32147	5-	43248	07248				--	47109	00049
136	5-	05626	04246	--	48109	04149	--	67109	32119	5-	42488	28148
336	50	05								53	05544	04316
350	57	42473	06347	5-	08425	04327	--	46109	08249	--	46109	02259
368	57	61655	08468	53	05653	06367	6-	05590	06210			
379	57	61664	04368	57	05655	04237	--	48259	08349			
390				5-	08477	04227	03	08490	04123	5-	47368	02228
882	57	05574	04227	5-	05567	06227	5-	08134	04328			
438	5-	40825	04648				5-	05		5-	05657	04627
430				5-	08		5-	05		5-	05	
409	02	05658	02358	5-	05634	03258	54	05553	06315			

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 7th December, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew ...	c1rsfm	c-	cpr6cmc2	
Croydon	cm	cmbcf	bcfid$_0$of	
Greenwich	cm	r$_0$cm$_0$	cmsf	Kew 24 hours ended 7h. Max. Time 0·6 8/10h 6th Min. Time 0·1 0/3h 7th
Camden Square	0	c	*	
Kensington ..	cbc	cbc	*	
Hampstead ...	bcp	op	of	

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 ...	43	40	36	Tr	Tr	0·0	*	*
Croydon	43	39	36	-	Tr	0·0	*	*
Greenwich	42	38	33	Tr	-	0·0	78	96
Westminster	44	40	36	Tr	*	*	75	97
Regents Park	43	38	34				74	86
Camden Square	42	38	32	-	-	*	*	96
Kensington	43	38	*	-	Tr	-	58	92
Hampstead	42	35	32		Tr		*	97

SECRET

Page 1 BRITISH SECTION

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

Wednesday 8th December 1943

No. 29966

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

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)	19·8	-4	–	0	cf	43	92	41	3	5	–	–	9+	9+	4500
	Croydon	20·1	-2	E	1	f	41	97	40	2	–	–	–	10	10	<150
	S. Farnborough	19·9	-6	N'E	2	zo	44	85	40	5	5	–	–	9+	9+	1000
	Boscombe Down	20·4	0	NNE	2	zo	41	92	38	6	5	–	–	4-6	9+	600
	Thorney Island	19·2	-6	NE	3	zo	45	85	41	5	6	–	–	4-6	9+	2000
	Lympne	19·1	-6	NE'N	2	m	44	97	44	4	5	–	–	10	10	300
	Manston	19·3	-6	NNE	2	m/d	44	97	43	4	5	–	–	2-3	10	700
2	Shoeburyness	20·0	-4	N	3	m	43	97	42	4	–	7	–	7-8	7-8	–
	Felixstowe	19·7	-2	NW	2	m	41	97	40	4	5	–	–	9+	9+	3000
	Gorleston	19·2	-8	N'W	2	of	45	92	42	3	5	–	–	10	10	600
	Mildenhall	20·0	-10	NW'W	2	cf	42	97	41	3	5	–	–	9+	9+	6000
	Cranwell	20·3	-12	NNW	1	m	41	92	38	4	5	3	9	7-8	9	3000
3	Birmingham	20·5	-8	NNE	2	m	44	85	39	4	–	3	–	9+	9+	–
	Upper Heyford	20·6	-4	NNE	3	m/f	40	97	40	4	5	–	–	10	10	400
4	Ross-on-Wye	20·7	-6	E'N	2	of	42	92	40	3	5	–	–	10	10	500
5	Hartland Point	18·3	+6	ENE	3	bc	43	92	41	6	1	4	–	1	4-6	2500
	Bristol	21·2	-6	ENE	1	zo	42	92	39	5	5	–	–	10	10	500
	Portland Bill	19·2	0	NE	4	c	44	92	42	7	5	–	–	10	10	2500
	Plymouth	18·8	-6	ENE	3	zo	45	75	39	6	5	7	–	7-8	9	5000
	The Lizard	18·2	-4	E	3	zo	47	85	43	6	2	–	–	7-8	7-8	2000
	Scilly (St. Mary's)	18·2	-6	ENE	3	zo	49	75	43	6	5	–	3	4-6	4-6	1200
	Guernsey															
6	Pembroke	20·8	+2	NE'E	2	c-bc	45	85	41	6	2	3	–	4-6	7 8	2500
7	Holyhead (Valley)	21·6	-2	–	0	cf	47	85	43	3	–	3	–	0	9+	–
	Chester (Sealand)	20·9	-10	–	0	F+	36	97	35	0	–	–	–	10	10	<150
8	Manchester	21·0	-14	–	0	cF	39	97	39	1	5	–	–	9+	9+	4000
10	Spurn Head	20·2	-14	WNW	3	m	41	92	38	4	7	–	–	9+	9+	2500
	Catterick (Sc)	20·9	-4	–	0	zo	45	85	41	5	5	7	–	7-8	10	4500
	Tynemouth	21·8	-4	NNE	6	iro	46	92	44	6	–	2	–	10	10	900
11	St. Abbs Head	20·1	-14	–	0	roro	45	92	42	8	5	2	–	7-8	10	2000
	Leuchars	20·6	-14	W	1	roro	43	97	43	3	5	2	–	2-3	10	4000
12	Renfrew (Abbots I.)	20·9	-10	–	0	of+	43	97	43	3	5	–	–	10	10	800
	Eskdalemuir	20·5	-10	–	0	zo	43	97	42	6	5	–	–	7-8	10	1100
	Point of Ayre	20·8	-6	SE'S	1	c	47	92	45	7	5	–	–	10	10	3000
13A	Tiree	20·6	-4	–	0	c	46	92	44	9	8	3	–	9	10	1500
13B	Stornoway	18·8	-14	WSW	1	zo	41	92	38	7	5	7	–	4-6	9	3500
15	Dalwhinnie	20·0	-4	W	3	c	40	85	35	8	5	6	–	9	9+	2500
	Aberdeen	20·6	-12	SSW	1	m	42	92	40	4	5	7	–	9	10	4000
	Wick	29·1	-14	–	0	c	42	92	39	6	5	7	–	9	10	1500
16	Sumburgh	20·8	-10	SE'S	2	c	41	75	35	8	5	7	8	4-6	9+	6000
17	Blacksod Point	22·3	-8	NW'W	2	ir	48	92	46	7	6	–	–	10	10	1500
18	Malin Head	20·8	-6	W	2	c	46	92	44	8	5	–	–	10	10	1500
	Aldergrove	21·8	-8	–	0	F+	43	97	42	1	–	–	–	10	10	<150
19	Birr Castle	22·6	-2	SSW	1	f	38	97	37	3	–	–	–	10	10	<150
20	Valentia Obsy.	22·4	-8	SW	1	c	46	85	42	8	5	–	2	Tr	9+	2000
	Roches Point	21·4	-6	N'E	3	bc	43	92	41	7	–	3	1	0	4-6	–

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

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)	19·6	+2	–	0	cf	41	92	40	3	5	–	–	9+	9+	4000	1	·
Croydon	20·1	+2	–	0	cf+	41	92	39	1	–	–	–	10	10	<150	1	·
S. Farnborough	19·8	+6	NNW	1	ifo	42	92	39	3	5	–	–	10	10	800	1	·
Boscombe Down	20·1	+4	NE'N	2	zo	40	97	39	5	–	3	–	0	4-6	–	0	·
Thorney Island	19·2	+2	N'E	1	cf+	43	85	39	3	–	7	–	0	10	–	1	·
Lympne	19·0	+4	NNE	2	m	41	92	39	4	5	–	–	7-8	7-8	2500	1	2
Manston	19·1	+2	N	3	cf+	43	92	41	3	5	–	–	9+	9+	3000	1	·
Shoeburyness	20·3	+2	N	1	m	40	92	38	4	5	–	–	10	10	2500	1	·
Felixstowe	19·4	+2	WNW	1	f+	41	92	40	3	–	–	–	10	10	<150	1	1
Gorleston	18·9	-10	NW	1	of+	45	92	43	2	5	–	–	10	10	600	1	1
Mildenhall	19·4	+2	NW'W	2	cf	40	97	39	2	5	–	–	9+	9+	800	1	·
Cranwell	19·5	-2	NW	1	oF	41	92	39	1	5	–	–	10	10	2000	0	·
Birmingham	20·1	-2	NW	1	oF+	41	92	39	1	5	–	–	10	10	450	1	·
Upper Heyford	20·0	-2	NNE	2	cbcf	37	97	37	3	–	3	–	0	7-8	–	1	·
Ross-on-Wye	20·2	0	–	0	cf	40	97	39	3	5	–	–	9+	9+	3000	1	·
Hartland Point	18·0	-6	ENE	3	bc	42	92	40	7	1	4	–	1	4-6	2500	0	3
Bristol	20·3	-2	–	0	cf	40	97	40	3	5	–	–	9+	9+	800	1	·
Portland Bill	19·2	+4	NE	3	o	44	92	42	7	5	–	–	10	10	2500	1	4
Plymouth	18·9	+2	ENE	3	zo	43	92	41	5	5	3	–	4-6	9	4000	0	1
The Lizard	17·9	0	ENE	6	zo	46	92	44	6	5	3	–	7-8	7-8	1500	0	4
Scilly (St. Mary's)	18·4	+6	ENE	3	cbc	45	92	42	6	5	–	–	4-6	7-8	1000	1	3
Guernsey																	
Pembroke	20·3	0	ENE	2	cbc	44	85	40	6	5	–	–	7-8	7-8	2500	0	2
Holyhead (Valley)	20·3	-8	–	0	cf	44	92	42	2	5	–	–	9	9	3500	0	1
Chester (Sealand)	20·2	-2	–	0	f-	38	97	37	2	–	–	–	10	10	<150	0	·
Manchester	19·8	-4	–	0	oF	38	97	37	1	5	–	–	10	10	800	2	·
Spurn Head	19·5	-2	WNW	3	m	41	92	39	4	5	–	–	10	10	1500	1	2
Catterick (Sc)	20·1	-2	N	2	roro	43	97	43	4	5	–	–	10	10	800	1	·
Tynemouth	20·7	-4	NE	1	iro	45	92	42	4	–	2	–	10	10	1100	1	2
St. Abbs Head	19·3	-4	S	2	roro	42	97	42	7	5	–	–	10	10	1500	1	3
Leuchars	18·7	-8	–	0	df	42	97	42	3	5	–	–	10	10	1000	1	·
Renfrew (Abbots I.)	18·6	-12	–	0	of+	41	97	40	3	5	–	–	10	10	1200	1	·
Eskdalemuir	19·4	-4	SW	1	iro	41	97	40	6	5	–	–	10	10	900	1	·
Point of Ayre	19·7	-4	W	1	zo	45	97	44	6	5	–	–	10	10	1800	1	0
Tiree	17·6	-16	SSW	2	roro	47	92	45	6	5	2	–	9	10	1500	1	1
Stornoway	16·2	-14	SE	3	roro	44	92	42	6	6	2	–	7-8	10	1200	1	2
Dalwhinnie	18·3	-6	N	1	iro	35	97	34	7	5	–	–	10	10	2000	1	·
Aberdeen	18·8	-8	SW	1	cf+	42	92	40	3	5	7	–	9	10	4000	1	2
Wick	18·6	-2	–	0	fg	37	97	36	7	5	7	–	2-3	7-8	2000	1	·
Sumburgh	20·1	+2	SE'E	3	c	41	75	35	8	5	7	–	2-3	10	2500	1	2
Blacksod Point	20·8	-8	W	1	c	46	92	44	8	6	–	–	10	10	800	1	2
Malin Head	18·1	-14	W	2	ido	47	92	45	7	5	–	–	10	10	800	2	2
Aldergrove	20·4	-6	SW	1	of	43	97	43	5	5	–	–	10	10	700	1	·
Birr Castle	21·4	-8	SSW	1	f	39	97	39	3	–	–	–	10	10	<150	1	·
Valentia Obsy.	22·1	+2	SSE	1	b-bc	40	92	38	8	5	–	1	Tr	2-3	3200	1	3
Roches Point	21·4	+2	N'E	4	fs	40	97	40	6	5	3	–	2-3	7-8	2500	1	3

PAST 24 HOURS

Stations	Weather 7h.—13h. 7th (39)	13h.—18h. 7th (40)	18h. 7th to 1h. 8th (41)	1h.—7h. 8th (42)
London (Kew)	cmf	cff	cff Fw	offw
Croydon	ofeof	pfcfof	cfe	oFecF
S. Farnborough	cmomcmo	cmo mirof	cfoF	oFeoF
Boscombe Down	ecmo	cmo	cmocf	cfofcrof
Thorney Island	cmgmcmo	cmo cm	cf	cfcm
Lympne	cmoom	omcm	cmf	cffwcf
Manston	cdom	cfmom	cbbcf	emfmf
Shoeburyness	cFcm	cm	cm	cf
Felixstowe	ofecm	bcmfe	cm	cm
Gorleston	off	off	oidoffe	offeom
Mildenhall	ofsf	cf	cf	cfof
Cranwell	cfcm	cFcf	cf	crorof
Birmingham	ofcm	cmf	cfo	oxoef
Upper Heyford	ofcmof	cmf	bcfcf	cfofwdof
Ross-on-Wye	of	ofcf	of	oFrofr
Hartland Point	bc	cbc	bccir	irc
Bristol	ofcmcmo	cmocmcf	cfw	cfwoFrf
Portland Bill	c	co	c	corr
Plymouth	bcmxbcc	cirocmo	cmo	cmo
The Lizard	bcczo	czo	cbcmo	bcom
Scilly (St. Mary's)	cbc	bccbc	bccw	cbcc
Guernsey				
Pembroke	bc	bcmo	cmow	orrmo
Holyhead (Valley)	cf	cf	rorofidororo	crorom om
Chester (Sealand)	FF	FFff	pfFroro	oFroro
Manchester	offcff	ocFF	iroRroro	roroF
Spurn Head	cm	om	fe	ombroro
Catterick (Sc)	cm	cmiroc	orrf	orrrorof
Tynemouth	odd iro	oirom	ororom	ororocmb
St. Abbs Head	ccrrm	crromorr	ombrrcmbrrcmbrrcmbx	
Leuchars	cmjfcfcrrm	crorom ofdo	cfirom	cfbcrorom
Renfrew (Abbots I.)	cf	cfcmcf	cfrrioromo	cromomo
Eskdalemuir	dfroc	ciro	errro	erro
Point of Ayre	cidoc	cidoc	crorr	rroro
Tiree	cfgvprov	cvcidoromo	crombcpro	bcbbcc
Stornoway	cfgcmo	cmororomo	crorof	cbcb
Dalwhinnie	oidc	coiro	c	oirc
Aberdeen	cmo cfcm	cmoirocf	cfirom	ciromc
Wick	cciroc	cmocidobc	bcfgcpro	bcccire
Sumburgh	bcc	c	c	c
Blacksod Point	r	r	r	bc
Malin Head	r	d	t	pr
Aldergrove	FcfF	Fcmf cmo	cmbmrorom	toRcmo iro
Birr Castle	f	f	·	pr
Valentia Obsy.	bc	bc	c	d
Roches Point	bc	bc	bc	t

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

Districts	Forecast
1 S.E. England 2 E. England	Wind light easterly; dull and misty with some local fog; occasional drizzle or light rain; rather cold.
3 E. Midlands 4 W. Midlands	Light to moderate easterly wind; mainly dull with some light rain or drizzle at first; misty at first, improving; rather cold.
5 S.W. England 6 South Wales	Light east to northeast wind; dull; some rain or drizzle; local mist or fog; 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	Light to moderate east to northeast wind; mainly cloudy; some local rain at first; rather cold.
13A W. Scotland 13B N.W. Scotland	Calm to light variable breeze; fair to fine; rather cold with night frost.
14 Mid Scotland 15 N.E. Scotland	Light to moderate easterly wind; mainly cloudy; rather cold.
16 Orkneys and Shetlands	As 11-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light to moderate north to northeast wind; mainly cloudy; rather cold.

GENERAL INFERENCE

An anticyclone centred near Shetland will continue to increase in intensity and a shallow depression over Ireland will move slowly southwards. There will be some light rain or drizzle in many parts of England and Wales, with fog or mist in places, but some improvement in conditions will spread to the Midlands and eastern counties. In Scotland conditions will be rather cold with much cloud in the East, but considerable fine periods in the West.

FURTHER OUTLOOK

Mainly cloudy or dull, probably with some fog; no appreciable rainfall

Forecasts issued at 1030.

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

7h. Wednesday 8th December 1943.

HIGH

Low

Low

1024

1022

1020

1018

1016

10°

5°W.

0°

5°E.

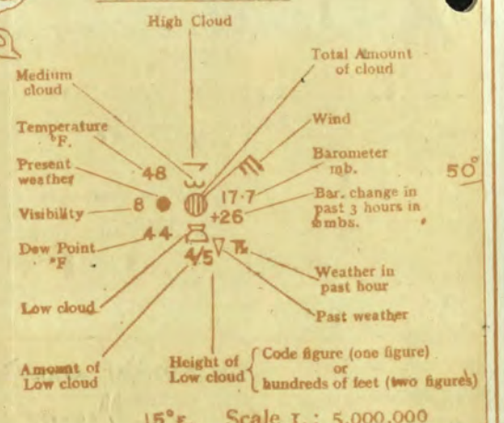
10°

60°

55°

50°

STATION MODEL



Scale 1.: 5,000,000

Mb.

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

Pt. 524/4582 W. 8031 D. 4545 6c 3/43 T440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 8th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

F.175.

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

Wednesday 8th December, 1943 — No. 28966

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·8	-6	-	0	cf+	39	97	38	9	5	-	-	10	10	2000
	S. Farnborough	226	18·4	-10	-	0	cf+	38	97	38	1	5	-	-	10	10	<150
	Boscombe Down	417	19·2	-6	-	0	cf+	36	97	36	2	5	-	-	9+	9+	5000
	Thorney Island	10	17·3	-14	-	0	m	38	97	37	4	-	7	-	9+	9+	7900
	Lympne ...	341	18·1	-6	N	3	cf	38	97	37	3	5	-	-	9+	9+	4000
	Manston ...	154	18·0	-10	NW	-	m	39	97	38	4	5	3	-	7-8	8+	3600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	17·8	-6	NW	2	m	41	92	39	4	5	-	-	10	10	4000
	Gorleston ...	5	18·2	-4	NW'N	1	cf+	43	92	40	2	-	-	-	10	10	<150
	Mildenhall ...	15	17·6	-10	W	2	cf+	37	97	36	2	-	3	-	9+	9+	7900
	Cranwell ...	203	17·6	-8	W'N	1	cf	41	92	39	2	5	-	-	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·5	-8	-	0	cf	39	97	38	2	5	-	-	10	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·7	-10	ENE	3	ir	40	97	40	7	5	2	-	4-6	9+	4000
	Bristol ...	209	18·8	-10	-	0	cf	36	97	36	2	5	-	-	9+	9+	5000
	Portland Bill ...	32	18·0	-14	NE	3	c	43	85	38	7	5	-	-	10	10	5000
	Plymouth ...	86	19·4	0	ENE	1	z_o	43	97	42	5	5	2	-	9	10	1000
	The Lizard ...	240	17·5	-6	E	4	z_o	47	92	44	6	4	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	17·7	-10	NE'N	2	z_o	47	97	46	6	5	-	-	10	10	1500
	Guernsey ...	175															
6	Pembroke ...	142	19·1	-4	E'S	1	z_o	41	97	40	6	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	17·9	-14	WSW	1	$r_o r_o$	45	97	43	5	5	-	-	10	10	1100
	Chester (Sealand)	16	17·5	-18	SE'S	1	tf	40	97	39	2	5	-	-	10	10	1600
8	Manchester ...	230	18·2	-10	-	0	tf	37	97	37	1	-	-	-	10	10	<150
10	Spurn Head ...	29	17·7	-12	NNW	1	=	42	97	41	1	-	-	-	10	10	<150
	Catterick (Sc) ...	192	18·8	-8	-	0	tf	41	97	41	2	-	-	-	10	10	<150
	Tynemouth ...	108	18·9	-10	NE	1	$t_o t_o$	43	97	42	6	-	2	-	10	10	1500
11	St. Abbs Head	280	17·4	-4	SW	3	++	42	97	41	7	5	-	-	10	10	1500
	Leuchars ...	31	17·5	-4	-	0	m	39	97	38	4	5	3	-	Tr	9+	4000
12	Renfrew (Abbotsl.)	19	17·0	-10	NE	1	$t_o t_o$	42	97	42	4	5	-	-	10	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	16·3	-16	NNW	1	++	47	92	44	7	6	2	-	10	10	600
13A	Tiree	44	15·3	-2	NNW	1	c-bc/pr	42	92	39	8	2	-	-	7-8	7-8	2000
13B	Stornoway ...	12	17·0	+6	ENE	2	c	44	85	39	8	5	1	-	7-8	9	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	18·4	-2	-	0	$r_o r_o$	39	97	39	6	5	2	-	9	10	800
	Wick ...	114	18·7	+2	NW	1	c-bc/pr	35	97	34	8	3	6	3	2-3	7-8	1500
16	Sumburgh ..	15	21·6	+6	ESE	2	c-bc	39	75	33	9	5	4	2	2-3	7-8	2000
17	Blacksod Point	18	17·1	-18	W	5	RR	49	97	48	7	-	2	-	10	10	600
18	Malin Head ...	84	15·0	-2	NNE	2	c-bc	47	86	43	8	5	9	-	4-6	7-8	1500
	Aldergrove ...	294	16·5	-22	SW	1	++	43	97	42	4	-	2	-	10	10	200
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·4	-14	NE'E	2	c	37	97	36	8	5	3	-	1	9+	4000
	Roches Point ~	22	19·8	-10	N	4	z_o	38	97	37	6	6	-	-	1	4-6	220

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
17·4	-2	-	0	f	40	97	39	2	-	-	-	10	10	<150	1	*
17·6	-10	-	0	cf+	38	97	37	1	5	-	-	10	10	2000	1	*
17·7	-2	-	0	tf	37	97	36	2	5	-	-	10	10	<150	1	*
17·7	-6	-	0	tf	36	97	35	2	5	7	-	9	10	2000	0	*
17·5	-2	-	0	m	38	92	36	4	5	7	-	1	9+	2500	0	*
17·8	+2	N'E	2	m	40	85	36	4	5	-	-	9+	9+	3500	1	*
17·6	-2	NW'W	1	cf+	38	97	37	3	-	3	-	9+	9+	-	1	*
18·2	+2	-	0	cf+	39	92	37	3	5	-	-	9+	9+	2500	1	*
16·9	+2	NW	2	m	40	92	38	4	5	-	-	10	10	2000	0	1
17·1	-8	N'E	1	m	44	92	42	5	5	-	-	10	10	1000	1	1
16·9	-2	-	0	cf+	38	97	38	3	5	-	-	10	10	400	1	*
16·8	-4	-	0	tf	40	97	40	3	5	-	-	6	10	500	1	*
17·0	-6	S	1	tf	39	97	38	2	6	-	-	10	10	450	1	*
17·3	-4	-	0	tf	38	97	38	2	-	-	-	10	10	<150	1	*
16·8	-8	E'N	1	df	39	97	38	2	5	-	-	6	10	400	1	*
15·2	-8	SSE	2	ir	42	97	41	7	5	2	-	4-6	9	1500	1	3
17·6	-4	-	0	tf	37	97	37	2	5	-	-	10	10	2500	1	*
17·3	-4	NE	3	tf	42	75	35	7	5	-	-	10	10	2500	1	4
16·1	-8	-	0	z_o	43	97	43	4	5	-	-	10	10	1700	0	1
15·8	-12	ENE	3	z_o	48	86	46	4	5	-	-	10	10	1000	0	3
15·7	-14	N	2	z_o	47	85	43	6	5	-	-	7-8	7-8	1500	1	3
16·4	-18	E'N	2	rr	42	97	42	6	5	-	-	10	10	1500	1	2
15·7	-10	SE	1	$t_o t_o$	43	97	42	4	-	2	-	10	10	3100	1	1
16·1	-6	SE'S	1	tf	40	97	40	2	5	-	-	10	10	1100	1	*
16·9	-2	ESE	2	tf	39	97	36	3	-	2	-	10	10	2500	2	*
17·6	+8	SE'E	3	$r_o r_o$	43	97	43	6	5	-	-	10	10	1500	1	2
18·6	+4	NE	1	tf	40	97	40	3	5	2	-	9	10	1000	1	*
18·9	0	ESE	2	$r_o r_o$	43	85	39	6	8	-	-	9	9	1500	1	2
17·9	+6	SE	3	ir	42	97	42	6	5	-	-	10	10	1500	1	3
18·6	+6	-	0	m	36	97	36	4	5	2	-	7-8	10	1900	1	*
17·7	+6	ENE	2	m	39	92	37	4	5	-	-	7-8	7-8	1500	1	*
17·1	0	ENE	2	$r_o r_o$	39	97	38	4	6	2	-	4-6	9+	500	1	*
15·2	-4	-	0	$r_o r_o$	42	97	42	7	6	2	-	10	10	600	1	1
17·6	+2	ESE	3	c	44	85	40	8	5	-	-	9	9	2000	1	2
19·0	+6	ENE	3	b	41	85	37	8	5	-	-	Tr	Tr	2500	1	1
18·5	+4	NE	1	c	34	97	33	7	5	-	-	9+	9+	2000	1	*
20·2	+14	ESE	3	c	41	85	39	8	5	-	-	9+	9+	2500	1	*
21·3	+18	ESE	3	rr	43	97	42	6	-	2	-	10	10	500	1	*
23·4	+8	E	3	c	41	85	38	8	5	-	-	9	9	2100	0	2
16·5	+2	N	3	bc	46	92	44	7	8	-	-	4-6	4-6	1500	1	3
16·4	+4	NE'E	4	pr	46	76	39	8	8	-	-	4-6	10	2500	2	3
15·5	+10	ENE	1	ir	41	92	39	7	5	-	-	10	10	3100	1	*
13·8	-14	SSW	1	c	42	97	41	7	8	-	-	9	9	1500	1	*
16·4	-24	WNW	4	$r_o r_o$	49	85	45	7	5	2	-	7-8	10	1900	1	4
15·2	-22	NW	3	rr	42	97	42	7	6	2	-	4-6	10	800	1	3

PAST 24 HOURS.

State of Ground. 0–9 (31)	Sea. 0–9 (32)	Temperature. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 7th Hrs. (38)
1	*	43	38	29	Tr	Tr	0·0
1	*	42	37	32	-	Tr	0·0
1	*	44	35	33	Tr	Tr	0·2
0	*	44	34	31	-	Tr	0·0
0	*	45	43	30	-	-	*
1	*	45	37	33	-	-	0·8
1	*	46	37	32	Tr	-	0·0
1	*	45	36	31	-	-	0·2
0	1	44	39	38	0·1	-	0·0
1	1	46	42	42	-	-	0·0
1	*	44	36	30	Tr	Tr	0·0
1	*	42	39	39	-	0·4	0·9
1	*	44	39	36	-	2	•
1	*	41	35	31	-	0·1	•
1	*	42	37	29	-	1	0·0
1	3	43	40	39	-	0·4	3·2
1	*	42	33	29	Tr	0·6	0·0
1	4	46	39	*	-	0·4	*
1	*	45	42	40	Tr	*	1·0
0	3	47	44	*	-	-	3·7
1	3	45	44	*	-	-	4·8
1	2	47	41	*	-	2	2·3
1	1	47	42	42	-	8	*
1	*	38	38	37	Tr	5	0·0
1	*	41	36	32	-	3	*
1	2	42	40	*	-	5	1·4
1	*	46	40	39	Tr	7	0·0
1	2	46	43	43	1	10	*
1	3	45	40	*	1	5	*
1	*	-	33	26	1	0·1	0·0
1	*	44	39	32	0·1	5	0·0
1	*	43	37	37	1	6	0·0
1	*	47	42	*	0·1	5	0·0
1	*	47	39	28	2	5	0·0
1	*	47	35	35	3	1	0·1
1	*	41	33	32	0·1	1	0·2
1	*	43	39	37	0·3	1	0·0
1	*	42	33	28	Tr	1	*
2	4	41	39	32	-	-	0·0
3	*	49	45	*	0·6	13	*
3	*	47	43		0·5	6	
1	*	46	41	39	0·1	8	0·0
1	*	40	39	37	-	9	
1	*	48	37	31	Tr	0·2	
1	3	45	37	*	Tr	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 7th December — 18h. G.M.T. — 01h. G.M.T. 8th December — 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 57	02856	15127	57	02755	10226	5-	02754	09467			
115 22	03944	30227	52	62744	20267	24	01861	88364	22	02854	08326
203											
206 57	02554	00057	57	61655	00088	50	05664	00054	57	08655	00025
210 52	21634	20158	57	47264	20147	53	04863	00027	5-	02865	00025
219 57	22856	16268	52	64635	16368				50	01852	06212
230 57	02965	00067	52	62654	00068	.			50	00851	00061
245 52	62643	24168	5-	08448	18168	51	62746	02368	52	62644	08368
260 --	57209		--	46		--	46		--	46	
277						52	22645	00068	5-	02658	14368
279 5-	08909	00068	--	46209	00049	--	67309	02169	62	61424	04368
285 5-	61								--	67	
288 5-	08458	18128	5-	67348	00068	--	67109	00069	52	67254	06165
578 53	05644	00027	57	51645	20158	52	76634	00068	50	01754	30105
301 --	48209	04143	--	57209	00059	P2	52448	12168	--	67109	08168
321 5-	49158	00048	5-	47168	23148	5-	67156	28168	--	67109	30169
299 5-	05		5-	57					5-	62	
292 5-	05568	30128	5-	45358	00048	--	67209	00069	5-	64448	05168
310											
61 53	47364	00047	5-	43		52	47		--	67	

13h. G.M.T. 7th December — 18h. G.M.T. — 01h. G.M.T. 8th December — 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 03	04790	26125	03	05590	24127	52	61254	00048	52	62345	00068
334 --	01643	20114	--	04337	18128						
340 03	45290	32144	5-	47248	00048	5-	67358	00048	5-	67348	20168
136 53	05575	28147	5-	08448	24128	--	57109	30159	--	57209	08259
336											
350 5-	43328	00048	5-	45277	00047	5-	45258	00048	--	67209	00069
368 --	46301	06349				57	47144	00045	5-	67138	00068
379 --	44209	06249				57	45357	28148	02	62358	28168
390 5-	43238	32148	--	46009	00049	5-	45367	26147	5-	45367	00047
382 5-	08435	05347	5-	41477	00047	5-	48268	00048	5-	67268	00068
438			5-	08466	32146				7-	05667	04217
430			03	47398		5-	08		53	41	
409 54	05672	03115	53	05664	08124	03	05690	11124	57	22644	00068

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

Stations	Weather. Morning	Weather. Afternoon	Weather. Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cm·f	cff	cfffw	Kew 24 hours ended 7h. Max. Time 0·9 20/22h. Min. Time 0·4 0/6h. 8th
Croydon	ofeof	ofcfof	ofecf	
Greenwich ...	cff	cff	cffr$_o$	
Camden Square	o	c	*	
Kensington	obc	bccom	*	
Hampstead ...	ofbc	of	of	

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 ...	43	38	29	Tr	Tr	0·0	*	*
Croydon ...		37	32		Tr	0·0	*	*
Greenwich ...	42	37	30	-	Tr	0·0	93	93
Westminster ...	44	38	32	-	-	*	85	99
Regents Park ..	43	38	28	-	-	*	91	95
Camden Square	43	38	28	-	-	*	*	96
Kensington ...	43	37	30	-	-	*	94	92
Hampstead ...	43	37	36	-	-		*	94

SECRET

Page 1

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

Thursday 9th December 1943 — No. 29967

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	17·3	-8	–	0	of	43	92	41	2	5	–	–	10	10	2500
	Croydon ...	17·1	-12	E'S	1	o/d	44	85	39	3	5	7	–	7-8	10	2500
	S. Farnborough	17·2	-6	E	1	df	42	85	39	4	5	1	–	9+	10	1000
	Boscombe Down	17·2	-6	ESE	3	o/o	40	92	38	4	5	–	–	10	10	1000
	Thorney Island	17·0	-6	E'N	3	rolo	43	86	40	4	–	2	–	10	10	1500
	Lympne ...	17·7	-6	SW	1	m	43	85	39	4	–	9	–	10	10	8000
	Manston ...	17·9	-2	NW'N	1	cf+	43	86	39	2	–	3	–	9	9	7900
2	Shoeburyness ...	18·3	-2	–	0	cf+	42	85	39	3	–	3	–	9+	9+	8000
	Felixstowe ...	16·2	-8	WNW	1	df	41	97	41	3	5	–	–	10	10	2000
	Gorleston ...	17·4	0	NNE	2	c	45	92	43	7	5	2	1	4-6	9	1200
	Mildenhall ...	17·6	+4	–	0	df	41	97	40	1	–	–	–	10	10	1150
	Cranwell ...	17·8	+2	–	0	df	41	97	41	1	–	–	–	10	10	1150
3	Birmingham ...	16·9	0	SE	1	rf	40	97	40	2	6	–	–	10	10	450
	Upper Heyford	17·2	-6	E	1	df	40	97	39	2	–	–	–	10	10	1150
4	Ross-on-Wye	16·4	-6	ESE	2	rf	40	97	39	3	5	–	–	10	10	500
5	Hartland Point	13·4	-16	SSE	2	ir	42	97	41	7	5	2	–	7-8	9+	2500
	Bristol ...	16·6	-10	–	0	rolo	40	97	39	4	5	–	–	10	10	600
	Portland Bill ...	16·2	-6	E	3	rr	44	92	42	7	5	–	–	10	10	2500
	Plymouth ...	13·9	-22	NE	1	rolo	46	97	46	4	5	2	–	4-6	10	1200
	The Lizard ...	14·4	-8	ENE	2	rolo	46	97	46	6	5	–	–	10	10	1500
	Scilly (St. Mary's)	13·9	-18	NW	2	rolo	47	92	45	6	5	–	–	10	10	800
	Guernsey ...															
6	Pembroke ...	13·6	-16	SE'E	3	rr	44	92	42	5	8	2	–	7-8	10	800
7	Holyhead (Valley)	15·5	-4	NE'E	1	rolo	45	92	43	5	5	7	–	4-6	10	800
	Chester (Sealand)	16·6	-2	ESE	2	df	43	85	39	2	5	–	–	10	10	1200
8	Manchester ...	17·5	+2	–	0	rolo	41	97	41	4	5	2	–	9	10	2000
10	Spurn Head ...	18·2	0	E	3	c	44	85	41	7	8	3	–	4-6	9+	2200
	Catterick (Sc)...	19·8	+2	NE	2	do/o	42	97	42	4	5	–	–	10	10	1300
	Tynemouth ...	20·4	+4	E	4	c/bc	45	75	38	8	2	–	–	7-8	7-8	2400
11	St. Abbs Head	20·0	+2	NE	3	c	43	75	36	8	5	6	–	7-8	9+	2000
	Leuchars ...	21·3	+6	ENE	3	Zo	44	75	38	6	5	–	–	2-3	9+	1000
12	Renfrew (Abbotsl.)	19·9	+6	ENE	3	Zo	45	85	41	5	5	7	–	4-6	9	2000
	Eskdalemuir ...	19·4	+10	NE'N	3	ir/o	39	97	39	7	6	–	–	9+	9+	1100
	Point of Ayre...	17·1	+10	SE'S	4	c	44	85	41	8	6	7	–	7-8	9+	1500
13A	Tiree	19·3	+2	E	3	bc	45	75	39	9	5	3	–	4-6	4-6	4000
13B	Stornoway ...	20·6	0	ESE	4	b-bc	45	75	38	9	1	–	–	2-3	2-3	1800
15	Dalwhinnie ...	21·4	+6	ENE	2	c	40	85	36	7	5	–	–	9	9	2000
	Aberdeen ...	22·2	+2	E'S	3	c/bc	44	65	34	8	5	–	–	7-8	9+	3000
	Wick ...	23·5	-4	ESE	2	c	43	75	35	8	5	–	–	7-8	9+	3000
16	Sumburgh ...	24·7	0	SSE	1	pr	41	75	35	9	8	6	–	9	9+	2000
17	Blacksod Point	16·1	-4	ENE	3	bc	47	85	43	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	17·2	+6	E	3	c	47	75	40	6	8	–	–	9	9	2500
	Aldergrove ...	16·5	+2	ENE	2	m/d	44	92	42	4	6	7	–	4-6	10	400
19	Birr Castle ...	13·5	-4	NNE	1	c	42	97	41	7	5	–	–	10	10	1500
20	Valentia Obsy.	14·5	-14	NE'E	3	c/pr	47	85	43	8	2	–	–	1	1	2300
	Roches Point	12·8	-14	NW	3	bc	47	85	43	8	3	3	–	4-6	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·6	+4	ENE	2	of	43	85	38	2	5	–	–	10	10	2000	1	*
	Croydon ...	17·7	+2	–	0	of+	44	85	39	3	5	–	–	10	10	1500	1	*
	S. Farnborough	17·4	+4	E'N	3	rf	42	85	39	2	5	–	–	10	10	600	1	*
	Boscombe Down	16·6	-4	E'S	+	rf	40	97	40	3	5	–	–	10	10	300	1	*
	Thorney Island	17·2	+4	E	3	rf	43	97	42	2	6	2	–	7-8	10	2200	1	*
	Lympne ...	18·3	+10	E	1	m/f	42	85	38	4	5	7	–	9+	10	5700	1	§
	Manston ...	17·9	+2	–	0	of	40	97	39	2	5	–	–	10	10	4000	1	*
2	Shoeburyness ...	19·0	+6	–	0	f+	39	92	37	2	–	–	–	10	10	1150	1	*
	Felixstowe ...	17·9	+6	WSW	1	of	42	97	41	3	5	–	–	10	10	2000	1	1
	Gorleston ...	17·9	+2	ENE	2	c	44	92	42	7	8	–	–	10	10	1400	1	2
	Mildenhall ...	18·0	+6	–	0	f	40	97	40	1	–	–	–	10	10	1150	1	*
	Cranwell ...	18·3	+6	E	2	m	42	97	42	4	5	–	–	10	10	2500	1	*
3	Birmingham ...	17·6	+20	E	2	rf	40	97	40	2	6	–	–	10	10	450	1	*
	Upper Heyford	17·5	+6	E'N	1	do/o	40	97	40	2	–	–	–	10	10	1150	1	*
4	Ross-on-Wye	16·4	+2	E'S	2	rf	40	97	39	3	5	–	–	10	10	500	1	*
5	Hartland Point	11·8	-6	ESE	2	rolo	42	92	40	6	5	2	–	4-6	10	1500	1	2
	Bristol ...	15·9	0	E'S	2	rolo	41	97	40	4	–	2	–	10	10	600	1	*
	Portland Bill ...	14·6	-10	SE	4	rr	43	92	41	7	5	–	–	10	10	2500	1	4
	Plymouth ...	12·7	-2	SSE	2	rr	45	97	44	6	6	2	–	4-6	10	1800	1	2
	The Lizard ...	12·4	+4	–	0	rolo	43	97	42	4	5	–	–	10	10	1500	1	3
	Scilly (St. Mary's)	12·0	-6	N'S	2	c/p	45	97	44	8	8	–	–	9	9	1500	1	2
	Guernsey ...																	
6	Pembroke ...	12·1	-4	ESE	5	rr	44	97	44	6	5	–	–	10	10	1150	1	2
7	Holyhead (Valley)	15·4	+2	NNE	2	m/f	42	85	39	4	5	7	–	2-3	9+	4000	1	1
	Chester (Sealand)	16·8	+2	ESE	2	df	42	92	40	3	5	3	–	9+	10	1000	1	*
8	Manchester ...	17·7	+2	ESE	2	rf	42	97	41	3	5	2	–	9	10	1800	1	*
10	Spurn Head ...	18·4	-4	ENE	3	c	44	85	41	7	8	3	–	7-8	9+	1500	1	2
	Catterick (Sc)...	20·1	+6	NNE	2	Zo	39	97	38	6	5	7	–	7-8	10	3000	1	*
	Tynemouth ...	20·4	+2	E	3	c/bc	44	75	37	8	2	3	–	4-6	7-8	2500	1	3
11	St. Abbs Head	20·4	+2	ESE	3	c/bc	44	75	37	8	4	3	–	4-6	7-8	2500	0	3
	Leuchars ...	21·4	+4	ENE	3	Zo	43	85	40	6	5	7	–	7-8	10	2500	1	*
12	Renfrew (Abbotsl.)	20·8	+10	NE	3	Zo	42	85	39	6	5	7	–	4-6	7-8	2000	1	*
	Eskdalemuir ...	20·4	+8	NE'N	3	bc	35	85	32	8	7	4	–	2-3	4-6	2100	1	*
	Point of Ayre...	17·4	+4	SE	4	c	46	75	33	7	5	7	–	4-6	10	1600	0	3
13A	Tiree	20·0	+8	ESE	4	c/bc	45	75	37	8	5	–	–	7-8	7-8	3500	1	2
13B	Stornoway ...	21·5	+8	SE	4	b	42	85	37	8	4	–	–	Tr	Tr	2000	1	3
15	Dalwhinnie ...	21·4	+4	E	1	c	35	92	33	7	5	3	–	7-8	9+	2500	1	*
	Aberdeen ...	22·3	+4	ESE	2	c/pr	43	85	38	8	8	–	–	4-6	10	1500	1	
	Wick ...	23·6	0	ESE	1	c/p	43	75	35	7	8	–	–	9	9	2000	1	*
16	Sumburgh ...	24·7	0	SSE	1	c	40	75	34	8	8	6	–	9	9+	2000	1	2
17	Blacksod Point	16·5	-4	NNE	1	c/bc	40	92	38	8	5	–	–	7-8	7-8	2500	1	*
18	Malin Head ...	17·5	+8	ENE	4	c/d	44	85	40	6	8	–	–	9+	9+	2200	1	*
	Aldergrove ...																	
19	Birr Castle ...	13·2	+4	NNE	1	c/bc	40	92	38	8	5	–	–	7-8	7-8	2500	1	*
20	Valentia Obsy.	13·2	-4	NE'N	3	ir/o	45	75	38	8	5	–	–	9+	9+	2500	1	2
	Roches Point	10·8	-10	N	4	ro/o	44	92	42	8	6	2	–	4-6	10	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 8th (39)	13h.—18h. 8th (40)	18h. 8th to 1h. 9th (41)	1h.—7h. 9th (42)
c/roff	c/ro cff	cff	cfcmo
cdodof	cfdodoofcfcfcm	cmo	cmo
ofidodocmodocmodirof		crof	cfmo
crorof	oromf	drirofom	omorforomo
omirfomrofo	crof	crorocm	cmcrorom
cm	cmcf	cmf	cmfw
cf	cf	cofrc	bcfbom
cfcmcf	cf	cf	cf
cmdf	cfcmcf	cfirocf	cfcfe
c	bcc	bcc	c2o2o
cf	ofcfof	ofoirofcf	of
cfdodo	cfcm	cmcmo	cmocmcmo
offrofo	offrofo	fro om	oirm
crdodoofdodofofpffodododfc		cff	
rofrof	rofrof	rofrof	rofrrdo
cirmo	rorbc	crrir	c
ofrofcmfofcmfo	cmfofo	cfrmrrmbc	
prfrr	orr	orr	orro
ofrorr	croromo	crrroromo	crorormo
micrr	comrr	prrc	bbc
crofo	crofo	cirbc	cbc
cfdodorrmo	orrmo	crrmo	cifo
croromoz	crorcmof	cirmo	cirorofm
offdodo	ffdodec	odododff	effrofo
rofoffm	rofocrodoffffdodomo		cmoido
c	c	c	o
crorof	cidomocmcmcf		crorobcf
oirbc	c	cp	cp
cmorrcprcprbc		bcbprc	cprcfo
crofromddcmocmobc		cproemo	cp
cmcmo	cmo	cirombcmcmobcmo	
cirfo	irocbc	bcc	c
rfrfc	c	cbcc	c
cbccrbcv	bcvcvbc	bbclo	b
bcb	bbcb	b	bbcb
coprc	c		cprobc
cbc	ccpr	cirbc	c
ccidcc	ccjp	bcproeprocccprbc	
bccjpro	cprbc	cbcc	
bc	c	r	c
c	c	c	r
idomodom	cdodomo	idoirir	ccmocbc
c	c		d
pr	r	r	c
r	pr	r	r

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

Districts	
1 S.E. England	Moderate to light southeast to south wind; fair periods; some occasional slight rain locally; local fog night and morning, a little milder.
2 E. England ...	
3 E. Midlands ...	Light to moderate southeast wind; cloudy with fog or mist at first, and probably locally by morning; fairer periods; rather cold.
4 W. Midlands	
5 S.W. England	As 1
6 South Wales	Light southerly winds; fairer periods; occasional showers; milder.
7 North Wales	
8 N.W. England	Light southeast winds; mainly fair; some mist; rather cold.
9 N. Midlands ...	Light easterly winds; dull or cloudy; rather persistent mist with local fog; rather cold.
10 N.E. England	
11 S.E. Scotland	As 14-16
12 S.W. Scotland & Isle of Man	Light to moderate easterly winds; fair to fine; rather cold.
13A W. Scotland ...	
13B N.W. Scotland	
14 Mid Scotland	Light east to southeast wind; cloudy; rather cold.
15 N.E. Scotland	
16 Orkneys and Shetlands	As 14-15
17 N.W. Ireland	Winds east to northeast moderate to light; mainly cloudy; local occasional rain or showers; rather cold.
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

An anticyclone persists near the Shetlands; a shallow depression off our southwest coasts is slowly filling, up but a trough of low pressure west of Portugal is expected to move east and then northeast. Weather will be mainly cloudy with some light rain locally, but visibility conditions will be better than of late; it will be somewhat milder especially in the South.

FURTHER OUTLOOK

Rather unsettled in the Southwestern half of the country with some occasional rain or showers; mainly fair in Scotland.

Forecasts issued at 10·30

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

7h. Thursday December 9th 1943.

HIGH 1024

LOW

1022 1020 1018 1016 1014 1012 1010

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Low cloud

Total Amount of cloud

Wind

Temperature °F.

Present weather

Visibility

Dew Point °F

Amount of Low cloud

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

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

Scale 1.: 5,000,000

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

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

Rz 524/4582 W. 8051/2. 2545 Gp 348/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Thursday 9th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Thursday 9th December 1943 — No. 29967

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon ...	290	17·3	-4	ENE	2	Zo	43	85	40	5	5	7	–	4-6	9	3000
	S. Farnborough	226	16·6	+4	E'N	3	cf-	42	92	40	3	5	1	–	4-6	10	900
	Boscombe Down	417	15·2	-10	E'S	5	m/f	42	97	42	4	5	–	–	10	10	800
	Thorney Island	10	16·2	-2	SE'E	3	Zo	40	92	37	6	6	3	8	4-6	9+	800
	Lympne ...	341	18·7	+2	S'E	3	m	40	97	39	4	5	–	–	9	9	1500
	Manston ...	154	18·4	+2	S'E	1	bcf-	41	92	39	3	–	3	–	4-6	4-6	8000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	18·3	0	–	0	cf	42	97	42	2	5	–	–	4-6	9+	400
	Gorleston ...	5	18·6	+6	E'S	3	c-bc	43	85	39	7	5	–	–	7-8	7-8	2000
	Mildenhall ...	15	18·1	-2	SE'S	2	of+	42	97	42	1	5	–	–	10	10	800
	Cranwell ...	203	18·2	+2	E	1	Zo	41	97	41	5	5	–	–	10	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16·8	-4	E	3	of	40	92	38	3	5	–	–	10	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·1	-2	ESE	2	c	43	97	42	7	5	–	–	10	10	2500
	Bristol ...	209	14·5	-10	ESE	2	rf	42	97	42	3	6	2	–	9	10	700
	Portland Bill ...	32	14·0	-4	SE	4	r	42	92	40	5	5	–	–	10	10	2500
	Plymouth ...	86	11·6	-6	S'E	2	c/r	46	92	44	7	6	2	–	10	10	1000
	The Lizard ...	240	10·8	-4	SSE	3	c	47	92	45	7	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	163	10·3	-2	–	0	c-bc	45	92	43	8	8	6	–	4-6	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	11·7	-2	SE	6	rr	46	97	45	6	5	–	–	10	10	1500
7	Holyhead (Valley)	32	15·1	+6	E	3	c/r	42	85	39	5	5	–	–	10	10	3000
	Chester (Sealand)	16	16·7	-4	ESE	2	of-	43	85	39	3	5	–	–	10	10	1300
8	Manchester ...	230	17·3	+4	ENE	3	Zo	41	92	38	6	4	–	–	7-8	7-8	1500
10	Spurn Head ...	29	19·1	-	ESE	3	c	44	85	41	7	7	–	–	9	9	4000
	Catterick (Sc.) ...	192	20·4	-2	N	1	cf	36	92	34	3	5	3	–	9	10	7300
	Tynemouth ...	108	21·1	0	E	3	pr	44	85	41	7	5	–	–	9+	9+	2500
11	St. Abbs Head	280	20·2	-4	E	4	pr	43	85	38	7	8	6	–	7-8	9	2500
	Leuchars ...	31	21·5	-2	E	3	c	41	85	36	7	4	3	–	2-3	9	3500
12	Renfrew (Abbotsl.)	19	20·5	-2	E'N	1	Zo	40	85	37	5	5	3	–	1	2-3	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	17·6	0	SE'S	4	c	44	75	35	8	5	–	–	9+	9+	1800
13A	Tiree	44	20·0	+4	ESE	4	b	43	75	35	8	1	–	–	Tr	Tr	2500
13B	Stornoway ...	12	21·2	-2	E	1	b-bc	40	75	34	8	1	–	–	2-3	2-3	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	22·8	+8	–	0	c	38	85	33	8	8	6	–	4-6	9+	2000
	Wick ...	114	23·0	-2	–	0	c	38	85	35	8	5	–	–	9+	9+	1500
16	Sumburgh ...	15	24·3	-6	E	1	c	39	85	34	8	5	–	–	9	9	3500
17	Blacksod Point	18	14·4	-6	E	4	c/r	45	92	43	7	6	–	–	10	10	1500
18	Malin Head ...	84	17·7	+2	NE'E	5	ic	45	85	43	8	5	–	–	9+	9+	2500
	Aldergrove ...	294	17·4	-2	E'N	2	c/r	42	85	39	7	5	–	–	10	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	10·3	-6	E'N	3	c	42	92	40	8	5	3	–	7-8	9	4000
	Roches Point	22	09·7	-6	N	2	ir	43	97	42	7	6	2	–	4-6	10	800

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
17·6	+2	ESE	3	Zo	41	85	37	5	5	–	–	9+	9+	2500	1	*
18·0	+2	ESE	2	Zo	41	92	39	6	5	4	–	7-8	9	1000	1	*
17·2	+6	E	3	Zo	41	92	39	5	5	–	–	10	10	1000	1	*
15·1	+4	ESE	5	c-bc	42	97	42	6	5	–	–	10	10	500	1	*
16·2	+2	E'S	3	c-bc	45	97	44	5	–	2	–	10	10	600	1	2
18·9	0	SSE	3	m/f	37	97	37	4	5	–	–	10	10	200	1	2
19·1	+2	S'E	2	m	40	97	39	4	5	–	–	10	10	600	1	*
19·5	+4	NE	1	m	40	97	39	4	5	–	–	10	10	2000	1	*
19·1	+4	–	0	cf	35	97	35	0	5	–	–	9	9	1000	1	1
18·6	0	E'S	3	Zo	41	85	40	6	5	–	–	10	10	2000	0	3
18·7	+1	SE	2	of-	40	97	40	2	5	–	–	10	10	1000	1	*
18·9	+4	E	2	Zo	41	97	41	5	5	–	–	10	10	1000	1	*
17·1	0	E	3	m	40	92	38	4	5	–	–	10	10	800	1	*
16·9	+1	E	4	m/f	39	97	38	4	5	–	–	2-3	10	400	1	*
14·8	0	ESE	4	ido	43	92	41	6	5	–	1	9	10	800	1	*
10·8	+2	SE	3	c	44	97	43	8	5	–	–	9+	9+	2500	1	3
14·4	+2	SE'S	2	c-bc	44	92	42	5	6	2	–	7-8	10	700	1	*
14·0	+2	S	4	0	42	92	40	7	5	–	–	10	10	2500	1	*
11·7	+2	SE	2	c/r	45	97	45	6	6	2	–	9	10	2400	1	1
10·8	0	NW	3	bc	44	92	42	7	8	–	–	4-6	4-6	2000	1	3
10·8	+2	S	1	bc	44	85	40	8	8	7	–	2-3	4-6	1500	1	2
10·8	-2	ESE	5	c	46	92	44	7	8	2	–	7-8	10	1500	1	3
14·3	-6	E'N	2	c/r	42	92	40	6	5	7	–	4-6	9+	3000	1	1
16·5	-2	E'S	2	m/r	42	85	39	4	5	7	–	9	10	2500	1	*
17·2	0	E'S	4	Zo	41	92	39	6	5	–	–	4-6	9	800	1	*
19·6	+4	SE'S	3	c	44	92	42	7	5	–	–	10	10	2500	1	2
20·7	+6	N	1	bcf+	35	97	34	3	5	3	–	2-3	4-6	3500	1	3
21·3	0	E	3	c-bc/pr	45	75	39	7	8	–	–	7-8	7-8	2500	1	4
20·6	0	ESE	4	ic	43	85	38	7	5	–	–	9+	9+	1500	1	4
21·4	+2	E	1	bc	42	75	36	7	5	–	–	4-6	4-6	3500	1	*
20·5	+2	ENE	2	Zo	40	85	36	6	5	–	–	4-6	4-6	3000	1	*
20·2	0	NNE	2	c	37	92	35	8	5	–	–	9+	9+	1500	1	*
17·4	0	SE'S	5	c	45	75	38	8	5	–	–	9	9	1500	0	4
19·5	0	ESE	4	b	42	75	35	7	5	–	–	Tr	Tr	3000	1	3
21·0	-4	SE	3	b-bc	31	97	31	8	5	–	–	2-3	2-3	2500	1	3
21·0	0	E	2	bc	35	75	27	7	5	–	–	4-6	4-6	2500	1	*
22·9	+4	SE	3	c	42	65	30	8	5	–	–	9+	9+	2500	1	
23·1	+6	ESE	3	c	44	65	32	8	5	2	–	7-8	10	2500	1	*
24·3	+2	ENE	2	c	41	85	36	8	5	–	2	7-8	9	3200	1	2
14·0	+2	E	6	c	45	85	41	7	6	–	–	10	10	1500	1	4
16·8	-6	E	4	bc	45	65	34	8	8	–	–	4-6	4-6	2500	2	3
16·4	-8	E'N	4	bc	42	75	36	7	5	–	–	2-3	4-6	2500	1	*
11·4	-4	NNE	2	c	43	92	41	7	5	2	–	7-8	10	2500	1	*
10·0	-2	NE	3	c	43	85	39	8	5	–	–	9+	9+	2400	1	2
09·2	0	NE	2	ir	43	97	43	8	6	2	–	4-6	7-8	1500	1	3

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 8th Hrs. (38)	Sea. 0–9 (32)
43	41	36	0·1	–	0·0	*
44	41	37	0·3	–	0·0	*
42	41	35	0·3	1	0·0	*
40	39	39	6	6	0·0	*
43	42	40	3	6	*	*
44	37	35	–	Tr	0·0	2
43	38	34	–	–	0·0	*
43	31	30	–	–	0·0	*
43	35	34	1	0·2	0·0	1
45	43	37	–	–	0·2	*
42	40	33	Tr	0·3	0·0	*
43	38	31	2	–	0·0	*
40	39	38	3	1	0·0	*
41	39	37	2	0·5	*	*
41	40	39	5	7	0·0	*
44	42	41	4	5	0·0	*
41	40	39	7	4	0·0	*
44	40	*	15	13	*	*
48	45	43	9	17	0·0	*
47	42	*	10	1	0·0	*
49	42	*	3	1	0·0	*
45	39	*	11	7	0·0	*
46	41	40	3	1	*	*
43	41	39	0·3	1	0·0	*
42	39	33	0·6	0·3	*	*
44	41	*	0·6	1	*	*
43	41	33	0·6	0·2	0·0	*
45	38	28	Tr	–	0·0	*
41	32	29	0·3	–	0·1	*
46	34	*	Tr	–	0·0	*
44	38	31	–	–	3·2	*
45	31	23	–	–	5·6	*
40	33	25	0·1	Tr	0·2	*
44	42	37	0·4	0·1	0·2	*
44	37	33	1	Tr	*	*
42	37	27	Tr	–	0·0	*
47	43	*	–	Tr	*	*
47	44		0·1	Tr		*
44	41	37	0·4	2	0·0	*
43	40	38	–	0·2		*
49	41	37	6	Tr		*
47	42	*	4	6	*	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 8th December — 18h. G.M.T. — 01h. G.M.T. 9th December — 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	57	02865	10325	58	51754	08157	53	02764	00025	5-	02768	12128
115	24	02954	08324	24	01961	08424	10	01964	08114	24	02962	08214
203												
206	5-	02866	08326	57	02864	08127	53	05665	00087	50	05661	00011
210	53	02864	09225	53	02854	00027	53	01763	12124	53	01764	10114
219	80	01953	14203	46	01954	10214				40	01963	00003
230	5-	02956	06126	53	01961	00024	50	01964	00024	50	01961	12221
245	5-	02858	07328	8-	02858	08288	56	02852	10387	51	02865	08228
260	57	08					56	05		57	05	
277				51	02754	08465	5-	02755	07428			
279	57	05555	08247	52	05655	06328	00	00690	06200	50	05552	06202
285	62	22								5-	05528	04228
288	57	05655	06327	53	05665	06127	53	02753	00015	57	22665	00067
575	52	51645	06158	51	21645	06158	52	52535	04358	5-	05648	32458
301	57	61546	05268	5-	05525	08328	40	01761	05321	5-	05665	05325
321	6-	52738	12258	54	02655	02257	5-	03556	04126	5-	05548	02128
299	50	02					5-	02		50	01754	
292	02	51748	08258	58	01743	06354	57	05656	04228	5-	03747	00027
319				--	07109	04						
614	--	44		--	57		--	47		5-	47	

13h. G.M.T. 8th December — 18h. G.M.T. — 01h. G.M.T. 9th December — 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
338	57	52645	12268	52	61555	04368	52	04468	14348	52	62665	08468
334	--	02537	20188	--	05327	18228						
340	--	57209	14269	02	67328	12368	5-	41458	16348	5-	05654	10525
136	96	02754	08235	57	02652	06225	5-	05687	08227	5-	05658	12228
336										--	67	
350	5-	45248	00068	--	46009	12159	--	46109	06249	--	46309	10449
368	5-	67338	20168	5-	62438	08268	5-	62438	08268	5-	61438	10268
379	02	67328	14168	--	67109	10269	--	46109	10369	5-	45328	12348
390	57	45347	00048	--	46109	00049	--	46109	00049	5-	47148	43348
382	57	67343	00068	--	57209	08269	52	43238	08248	5-	05546	11448
438							8-	05		87	08455	14417
430				52	61		52	05		5-	62	
409	57	22644	09268	52	62646	14268	57	02653	14327	57	22744	00065

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 9th December
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 ...	ci6ff	ci6 cff	cfcmo	
Croydon	cdo dof	cfdo dofcf	cfcmo	
Greenwich ...	cff	cff	c	
Camden Square	of	o	*	
Kensington ...	ofe	ome	*	
Hampstead ...	ofd	ofd	om	

Kew 24 hours ended 7h. Max. Time 1·1 17th 18th. Min. Time 0·1 2–6h 9th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	43	41	36	0·1	–	0·0	*	*
Croydon ...	44	41	37	0·3	–	0·0	*	*
Greenwich ...	42	39	33	–	–	0·0	91	90
Westminster ...	45	40	37	–			89	91
Regents Park ...	53	40	34	Tr	–		87	87
Camden Square	43	40	33	–	Tr	*	*	93
Kensington ...	43	40	36	Tr	Tr		88	87
Hampstead ...	43	37	34	0·2	–		*	95

SECRET

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

Friday 10th December 1943 — No. 29968

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

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)	19·0	+2	SSE	2	z_0	42	75	36	5	5	3	-	9	9+	3500
	Croydon ...	19·2	-2	ESE	2	z_0	42	85	37	5	5	7	-	4-6	9	4000
	S. Farnborough	18·4	+2	E	3	z_0	42	85	39	6	5	-	-	10	10	1000
	Boscombe Down	16·7	+4	ESE	4	z_0	43	87	42	5	5	-	-	10	10	400
	Thorney Island	17·5	+6	E	3	c/r	45	87	44	6	6	2	-	4-6	10	900
	Lympne ...	20·2	+4	SE	2	m	38	92	36	4	5	-	-	9+	9+	500
	Manston ...	20·2	+4	SSE	3	o/-	37	87	37	3	5	-	-	10	10	200
2	Shoeburyness ...	20·6	+2	SE	2	z_0	40	92	38	6	5	-	-	10	10	500
	Felixstowe ...	20·4	+4	SSW	1	z_0	43	87	42	5	5	-	-	10	10	2000
	Gorleston ...	20·2	+10	E'S	2	z_0	44	85	39	6	5	-	-	7-8	7-8	2000
	Mildenhall ...	20·0	+4	SSE	3	z_0	42	92	40	6	5	-	-	9+	9+	1200
	Cranwell ...	20·3	-4	SE	2	z_0	42	87	41	5	5	-	-	9+	10	800
3	Birmingham ...	18·1	+4	ESE	3	m	39	92	37	4	5	-	-	10	10	800
4	Upper Heyford	18·4	+6	E	4	m	40	92	38	4	5	-	-	10	10	500
	Ross-on-Wye	16·4	+6	E	4	z_0	43	92	41	6	5	-	-	10	10	800
5	Hartland Point	12·6	+10	SE	3	bc	48	85	45	8	4	4	5	1	4-6	2500
	Bristol ...	15·6	+2	ESE	3	z_0	44	87	43	6	5	-	-	10	10	500
	Portland Bill ...	14·9	+8	S	5	rr	48	92	46	7	5	-	-	10	10	2500
	Plymouth ...	13·4	+6	SE	1	c-bc	53	85	48	7	2	4	2	4-6	7-8	2000
	The Lizard ...	12·1	+4	S	2	c-bc	52	85	48	8	2	3	-	4-6	7-8	2500
	Scilly (St. Mary's)	11·5	+2	S'E	3	c-bc	52	85	49	8	8	7	2	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	13·1	+10	SE	5	c	49	85	45	7	8	2	-	7-8	10	1500
7	Holyhead (Valley)	15·3	0	E'N	2	z_0	46	85	43	6	5	7	-	4-6	9	2500
	Chester (Sealand)	17·5	+2	ESE	3	r_0r_0	44	85	39	5	5	7	-	9+	10	2000
8	Manchester ...	18·4	+2	E'S	4	z_0	44	85	39	5	5	-	-	9	9	1000
10	Spurn Head ...	20·7	+4	SE	3	b-bc	46	85	42	7	2	3	-	2-3	2-3	2500
	Catterick (Sc)...	21·3	0	NNE	2	m	42	85	38	4	5	3	-	4-6	9	4000
	Tynemouth ...	22·8	-2	SE	3	c-bc	45	78	38	8	2	-	-	7-8	7-8	2200
11	St. Abbs Head	21·5	+6	E	4	c-bc	44	85	39	8	2	3	-	4-6	7-8	2500
	Leuchars ...	22·5	0	ENE	3	ir_0	44	85	39	7	5	-	-	4-6	9	1500
12	Renfrew (Abbots I.)	21·0	-4	NE	3	z_0	43	85	38	5	8	-	2	4-6	7-8	2500
	Eskdalemuir ...	20·2	-4	NNE	3	c-bc	42	85	37	8	8	3	-	2-3	7-8	2400
	Point of Ayre...	17·2	+2	SE	5	b-bc	48	76	40	8	5	-	-	2-3	2-3	1500
13A	Tiree	19·8	-4	ESE	4	bc	45	75	36	9	1	-	2	1	4-6	2500
13B	Stornoway ...	21·3	0	ESE	3	c-bc	43	75	35	8	1	-	6	Tr	7-8	2500
15	Dalwhinnie ...	22·0	+2	SSE	3	c	37	75	32	7	5	6	-	7-8	9	2500
	Aberdeen ...	23·9	+6	E	3	c	42	65	32	7	5	-	-	9+	9+	2500
	Wick ...	24·1	+2	SE	1	c	43	65	33	9	5	-	-	10	10	4000
16	Sumburgh ...	25·2	+4	NE'E	2	c	43	75	37	9	5	-	-	9	9	4000
17	Blacksod Point	13·4	-6	E	6	o/r	45	85	41	7	6	-	-	10	10	1500
18	Malin Head ...	17·3	-2	ESE	8	c-bc	46	75	39	8	8	-	-	7-8	7-8	2500
	Aldergrove ...	16·9	0	ENE	4	c	44	85	40	7	5	7	-	7-8	10	2000
19	Birr Castle ...	11·8	+2	SE	2	c-bc	45	85	41	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	10·1	0	SE	1	c	46	85	42	8	5	-	-	9+	9+	1800
	Roches Point	10·2	+2	E	4	c/pr	47	85	43	8	3	-	3	4-6	9	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
20·0	+10	ESE	2	m	39	85	36	4	5	-	-	9+	9+	3100	1	*
20·0	+8	E	2	m	37	87	36	4	5	1	-	9	10	2000	1	*
19·1	+10	E'N	2	c-f+	39	87	38	3	5	3	-	7-8	9	2000	1	*
17·6	+10	ESE	4	o/d	42	87	42	5	5	-	-	10	10	400	1	*
18·4	+8	E	3	z_0	43	92	41	5	6	2	-	7-8	10	500	1	*
20·8	+10	E	2	c-f	36	87	36	3	5	-	-	10	10	200	1	2
20·8	+6	S'E	2	m	37	87	37	4	5	-	-	9+	9+	600	1	*
20·9	+4	E	2	z_0	38	87	37	6	5	-	-	10	10	800	1	*
20·2	+6	-	0	z_0	41	92	39	5	5	-	-	7-8	7-8	1500	1	1
20·4	+4	NE	2	z_0	42	85	39	5	5	-	-	10	10	1000	0	2
20·4	+6	SE	1	z_0	42	92	40	5	5	-	-	9+	9+	1200	1	*
21·1	+4	-	0	F+	40	87	40	1	-	-	-	10	10	4150	1	*
19·1	+6	ESE	3	m	36	87	35	4	5	-	-	10	10	800	1	*
19·3	+10	E'S	4	m	37	87	36	4	5	-	-	10	10	200	1	*
17·6	+10	E	3	m	42	92	40	4	5	-	-	10	10	600	1	*
14·1	+12	ESE	3	bc	44	87	44	7	2	4	-	2-3	4-6	2500	1	3
17·2	+10	ESE	2	d_0d_0	44	87	43	5	5	-	-	10	10	500	1	*
15·9	+6	SE	4	o	48	92	46	7	5	-	-	10	10	2500	1	4
15·0	+14	E	1	pr	46	87	45	5	8	3	-	4-6	9+	1500	1	1
12·9	+2	S	3	c-bc	49	92	47	7	8	-	-	7-8	7-8	2000	0	3
12·5	+10	SSE	3	c	49	92	47	8	8	6	9	7-8	9+	1500	1	3
14·8	+10	ESE	4	bc	48	87	47	8	8	-	-	4-6	4-6	1500	1	3
16·8	+10	ESE	3	z_0	43	85	39	5	5	7	-	2-3	7-8	2500	1	2
18·6	+12	ESE	3	m	44	85	39	4	5	-	-	10	10	1800	1	*
19·7	+10	E'S	4	z_0	42	85	37	6	5	-	-	4-6	9	2000	1	*
21·2	+12	E	2	c	43	92	41	6	7	3	-	4-6	9	2500	1	2
21·9	+4	-	0	z_0	40	92	38	6	5	3	-	4-6	10	3000	1	*
22·9	+4	ESE	3	c-bc	45	75	38	8	2	3	-	4-6	7-8	2500	1	3
21·8	+2	E	5	ir_0	43	85	39	8	7	-	-	9+	9+	1500	1	4
23·1	+8	ESE	2	r_0r_0	42	85	39	7	5	-	-	4-6	9	2500	1	*
21·5	+6	ENE	3	m	40	92	38	4	b	-	-	0	0	-	1	*
22·1	+8	N'E	2	b-bc	34	87	33	8	7	4	-	1	2-3	2500	1	*
18·5	+14	SE	5	c	47	75	40	8	5	-	-	9+	9+	1000	0	4
19·5	+2	ESE	5	b-bc	44	75	37	9	5	-	-	2-3	2-3	2500	1	4
21·3	0	ESE	3	b-bc	38	85	33	9	1	4	-	2-3	2-3	1800	1	1
21·6	+4	SE	3	c-bc	36	75	30	8	8	-	-	7-8	7-8	2500	1	*
24·1	+2	ESE	2	c	42	65	31	8	5	-	-	9	9	4000	1	*
24·6	+2	SSE	3	c	43	65	34	9	5	-	-	9+	9+	3500	1	*
25·5	+2	N'E	1	c	39	75	33	8	5	-	-	9	9	5000	0	2
12·7	-4	E	5	o/r	45	92	43	7	6	-	-	10	10	1500	1	4
16·5	-2	E	5	c	47	75	40	8	8	-	-	9+	9+	2500	1	4
17·4	+10	ESE	3	ir_0	45	85	41	5	6	2	-	4-6	10	900	1	*
12·7	+10	ESE	2	c-bc	43	92	41	8	5	-	-	7-8	7-8	2500	1	*
11·4	+10	SE'E	2	b	41	92	39	8	7	-	-	1	1	2700	1	1
12·1	+14	S'E	2	c-bc	44	92	42	8	3	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 9th (39)	13h.—18h. 9th (40)	18h. 9th to 1h. 10th (41)	1h.–7h. 10th (42)
cm_0	cm_0m	cmm_0	cm_0
cm_0	cm_0bcmcm	r_0	$o\,Fcmo\,F$
cmm_0	cm_0mf	$cf\,cm$	$cm\,cf$
$cr_0m_0cm_0$	cm_0cdmcm_0	$cmcf$	$cfcmcm_0$
cm_0rrcm_0	cm_0rrcm_0	cm_0	$cm_0bcm_0cm_0$
cm	gf	$cfcm$	cm
om_0F	$cfmf$	cmm_0cm	$cmid_0fiR$
$cmcm_0$	cm_0	cm_0	cm
$cf\,cm_0$	$om_0bcm_0cm_0$	cm_0cm	$cmcfcirf$
cz_0	cz_0	bcz_0	$r_0r_0z_0q$
$cfcm$	cm_0	cm_0cF_0F	of
cm_0	cF	Fcf	$bbccm_0$
om	om	ocm	cm
cm	$omcm_0$	$omcm\,of$	$cf\,fmof$
d_0r_0	cr_0d_0	r_0mom	om_0
bbc	bc	bcc	c
$cm_0r_0cm_0dd_0cm_0id_0$	$d_0cm_0d_0d_0m$		cm_0
orr	co	orro	o
cm_0c	$bccm_0$	$cm_0pr_0cm_0cm_0pr_0cm_0$	
bc	bcc	c	cbc
bcc	cbcc	c	cbc
c	bc	bcc	cm_0
cir_0m_0	cm_0	cm_0	cir_0cm_0
cmm_0	cr_0r_0mc	$cmcm_0$	bcm_0mc
$cbcm_0$	$cbccm_0$	$cbcm_0$	cbm_0
bc	cz_0	pr_0c	cir_0
cm	$cmcm_0$	cm	cir_0cmc
$cmcmp$	c	cp_0bc	C
ir_0c	cmr_0	cr_0c	$cbcc$
$ccir_0$	$cir_0r_0r_0$	$crrm_0e$	$cbcxc$
bcm_0cm_0	cm_0cm	$b\,cbm_0$	$bbcmxcm_0$
cpr_0bc	bc	bcx	bcx
bcb	bcc	cbc	bccbc
bc	bcv	bcb	bcc
cbc	bc	b	b
bcc	bc	*	cpr_0
c	c	cpr_0cm	$cmbcx$
c	c	$ccid_0cp_0$	cpr_0cbc
c	cbc	c	$bcpR$
r	r	bc	c
c	c	c	bc
$bccir_0c$	$cm_0ir_0m_0$	$cmid_0m$	idm_0nbcm
pr	c	*	bc
d	r	b	r
pr	pr	r	pr

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

Districts.	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light to moderate east to southeast winds. Cloudy and dull at first, with local slight rain; appreciable clearances later. Local fog at night; rather cold with local ground frost tonight.

Moderate or fresh east to southeast winds. Cloudy at first, with a few light showers; appreciable clearances later; rather cold with local ground frost tonight.

Light easterly winds; cloudy and dull, with fairly general mist or fog; rather cold.

Moderate east to southeast winds. Cloudy; local outbreaks of rain at first. Local mist or fog; rather cold.

Light or moderate southeast winds, Cloudy with local showers; appreciable clearances later; rather cold.

Light or moderate southeast winds; fair, apart from a few showers in east at first. Rather cold.

16 Orkneys and Shetlands	As 13-15
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate southeast winds; cloudy; local outbreaks of rain at first; rather cold.

GENERAL INFERENCE

Pressure is high to the northeast and low to the west and southwest of the British Isles. There will be a few showers at first in the East and local outbreaks of rain in the Southwest. Weather will be mainly fair in Scotland. Local ground frost will occur in the Southeast.

FURTHER OUTLOOK

Cloudy in western districts. Clear in the East, with night frost.

Forecasts issued at 1030

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

7h. Friday 10th December, 1943.

HIGH

LOW

1030

1028

1026

1024

1022

1018

1016

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

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

Scale 1.: 5,000,000

Mb.

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

Pt. 524/4582 M. 6031 D. 4545. Gp. 548/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 10th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Friday 10th December 1943 — No. 29968

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*
	Croydon ...	290	21·8	+6	NE	1	F+	35	87	35	1	-	-	-	10	10	<150
	S. Farnborough	226	21·4	+2	NE'E	2	cf	37	97	36	3	5	-	-	10	10	900
	Boscombe Down	417	20·2	+6	E'S	4	cf	37	97	37	3	5	-	-	10	10	400
	Thorney Island	10	20·3	+6	NE'E	3	Z_0	40	92	38	5	5	-	-	10	10	1000
	Lympne ..	341	21·6	+2	ESE	1	m	37	97	37	4	5	-	-	10	10	400
	Manston ...	154	22·0	+8	SSE	1	m	37	92	35	4	5	-	-	10	10	400
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	21·9	+2	NW	4	m	40	97	39	4	5	-	-	10	10	2000
	Gorleston ...	5	20·9	0	-	0	Z_0	43	75	36	6	2	-	-	4-6	4-6	2500
	Mildenhall ...	15	22·3	+6	-	0	F	37	97	37	1	·	-	-	10	10	<150
	Cranwell ...	203	22·7	+10	NNW	1	b-bcf	35	97	35	3	-	3	-	0	2-3	[illegible]
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·4	+8	E'S	3	ef-	37	97	37	3	5	-	-	10	10	300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·4	+12	ESE	4	c-bc	44	97	44	8	2	7	-	1	7-8	2500
	Bristol ..	209	20·0	+8	ESE	3	Z_0	40	97	39	5	5	-	-	10	10	600
	Portland Bill ...	32	17·5	+6	E	4	o	46	92	44	7	5	-	-	10	10	2500
	Plymouth ...	86	17·1	+6	SE	1	Z_0	46	97	46	6	5	-	-	9+	9+	2000
	The Lizard ..	240	15·6	+10	ESE	3	c	48	92	46	8	8	3	-	7-8	9+	2000
	Scilly (St.Mary's)	163	14·9	+12	SE'E	3	c-bc	49	92	47	8	8	8	8	4-6	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	18·6	+8	ESE	5	Z_0	47	92	45	6	8	-	-	10	10	1500
7	Holyhead (Valley)	32	19·8	+14	ENE	2	Z_0	42	85	38	5	5	3	-	4-6	9	3000
	Chester (Sealand)	16	21·6	+10	SSE	1	Z_0	40	86	37	5	5	3	-	4-6	9+	1800
8	Manchester ...	230	21·5	+10	ENE	2	Z_0	38	85	33	6	8	-	-	7-8	7-8	3000
10	Spurn Head ...	29	23·1	+10	ENE	3	c	42	92	40	7	7	-	-	9+	9+	1500
	Catterick (Sc)...	192	24·0	+8	N	1	ir_0	37	97	36	4	-	7	-	9	9	[illegible]
	Tynemouth ...	108	24·1	+6	E	3	bc	44	78	37	8	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	24·1	+6	ESE	4	c	42	75	36	8	7	-	-	9	9	4000
	Leuchars ...	31	24·8	+10	W	3	c-bc	42	85	37	7	5	3	-	4-6	7-8	4000
12	Renfrew (Abbotsl.)	19	23·7	+10	E'N	3	Z_0	38	92	35	5	-	-	1	0	Tr	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	21·1	+16	S'E	5	bc	45	75	38	8	5	-	-	4-6	4-6	1000
13A	Tiree	44	20·8	+10	SE	5	bc	45	75	37	8	4	-	-	4-6	4-6	3500
13B	Stornoway ...	12	22·1	+4	ESE	3	b	39	75	33	8	1	-	-	Tr	Tr	2800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	25·7	+6	SSW	1	b-bc/pr	36	97	34	8	3	-	-	2-3	2-3	3000
	Wick ...	114	25·7	+2	SSE	3	pr	41	85	38	8	9	-	-	4-6	9	1000
16	Sumburgh ..	15	26·9	+6	E	1	c	43	85	38	8	5	-	-	9+	9+	3000
17	Blacksod Point	18	15·0	+10	SE'E	3	b-bc	45	85	41	8	8	-	-	2-3	2-3	1500
18	Malin Head ...	84	18·4	+8	ESE	4	c	45	85	41	6	8	-	-	10	10	2500
	Aldergrove ...	294	19·9	+14	SE'S	4	ic_0	43	85	41	4	5	-	-	10	10	1200
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	14·5	+12	-	0	c	43	92	41	9	5	-	-	9+	9+	4000
	Roches Point	22	15·3	+18	S	2	bc	48	97	47	8	3	-	5	1	4-6	1500

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

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)
23·4	+10	NE	2	Z_0	37	97	36	5	5	-	-	10	10	2500	1	*
23·2	+8	-	0	F+	34	97	34	1	-	-	-	10	10	<150	1	*
23·6	+14	NE'N	3	cf+	34	97	33	3	5	-	-	10	10	400	1	*
22·9	+12	E	3	Z_0	35	97	34	5	5	-	-	10	10	1000	1	*
22·0	+8	NE'E	3	Z_0	37	85	31	6	5	-	-	10	10	2500	1	*
22·1	+2	N'W	2	m	37	97	37	4	5	-	-	10	10	400	1	0
21·5	+2	NNW	3	cf-	40	85	36	3	5	-	-	10	10	600	1	*
22·5	+4	NE·	1	m	38	92	36	4	5	-	-	10	10	2500	1	*
22·4	+6	NNE	3	f+	41	92	39	3	5	-	-	10	10	2300	1	1
22·7	+14	E	5	cg	42	95	34	6	8	-	-	9	9	1000	1	4
23·2	+10	E	2	F-	36	97	36	1	-	-	-	10	10	<150	1	*
23·8	+4	N'E	2	Z_0	36	97	35	5	5	3	-	2-3	7-8	3000	1	*
23·8	+6	E	2	m	37	97	36	4	5	-	-	10	10	1500	1	*
23·3	+10	ENE	2	f+	34	97	34	2	-	-	-	10	10	<150	1	*
22·6	+6	E'N	2	Z_0	37	92	35	5	5	-	-	10	10	800	1	*
18·4	+12	ENE	4	c	43	97	43	7	5	-	-	10	10	1500	1	3
22·7	+12	ESE	3	Z_0	36	97	35	5	5	-	-	10	10	600	1	*
20·1	+6	E	4	o	45	92	43	7	5	-	-	10	10	2500	1	
18·7	+10	ESE	4	Z_0	47	97	46	6	5	-	-	7-8	9+	1100	1	2
16·8	+4	E	3	bc	49	85	46	7	8	-	-	4-6	4-6	2000	1	3
16·6	+6	SE'S	2	b-bc	47	97	46	8	8	-	-	2-3	2-3	1500	1	
19·9	+6	SE'E	6	Z_0	44	92	42	6	8	·	-	10	10	1500	1	3
21·5	+10	E	3	Z_0	43	75	35	6	5	7	-	4-6	9	4000	1	1
23·6	+6	SSE	1	m	37	92	35	4	5	-	-	10	10	800	1	*
24·0	+10	E	3	Z_0	35	97	34	6	3	3	-	2-3	2-3	4000	1	*
24·2	+8	ESE	5	ir_0	43	75	37	7	8	-	-	10	10	1500	1	4
25·6	+12	NW	1	m	31	97	31	4	5	3	-	2-3	9+	4500	1	*
25·1	+4	E	3	c-bc	44	85	39	7	2	-	-	7-8	7-8	2500	1	3
25·4	+6	ESE	3	c-bc	43	85	38	8	5	-	·	7-8	7-8	4000	0	4
26·4	+10	-	c	c	33	97	32	7	5	7	-	7-8	9	3000	1	*
25·5	+14	-	o	Z_0	38	85	35	6	5	7	-	7-8	10	2000	1	*
25·7	+4	NE	2	b-bc	31	85	28	8	5	-	·	2-3	2-3	1800	3	
22·7	+6	S'E	6	bc	43	85	39	8	5	-	-	Tr	4-6	4000	0	
22·4	+10	SE	6	c	45	75	39	8	5	-	·	9	9	3000	1	4
23·0	+2	SE	2	b	39	85	35	9	-	-	-	0	0	-	3	2
25·5	+4	S	3	c	35	85	32	7	5	-	-	9+	9+	2500	1	*
27·3	+6	NW	2	c-bcf	35	92	33	2	5	-	·	7-8	7-8	2500	1	
26·3	+4	SE	3	b-bc	42	85	37	9	5	-	·	2-3	2-3	1500	1	*
28·1	+6	S'W	3	b-bc	42	92	40	8	8	6	-	2-3	2-3	2500	1	2
17·2	+8	SE'S	4	c	46	92	44	8	8	-	-	9+	9+	1500	1	3
20·5	+12	SE'E	4	m	45	75	38	4	6	-	-	10	10	2500	1	4
21·9	+10	ESE	4	Z_0	43	85	38	5	5	-	·	10	10	2300	1	*
18·2	+12	SE	1	bc	45	86	41	8	6	-	-	4-6	4-6	2500	1	*
15·8	+4	SE'S	4	b-bc	47	92	45	8	8	-	·	2-3	2-3	2100	1	3
17·3	+10	S'E	3	bc	49	97	48	8	3	-	·	4-6	4-6	1500	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Hrs. (38)
43	35	35	-	-	0·0
44	32	31	-	Tr	0·6
43	33	33	-	-	0·0
43	34	34	5	Tr	0·0
46	36	32	0·2	-	*
39	35	35	-	-	0·0
41	37	34	-	1	0·0
40	36	35	-	-	0·0
43	37	36	0·1	Tr	0·2
45	40	33	-	0·4	0·0
43	36	29	Tr	Tr	0·1
43	33	29	Tr	-	0·0
40	37	36	-	-	0·0
43	33	34	-	-	*
44	37	37	0·1	1	0·0
49	42	41	-	-	5·2
46	36	37	0·3	1	0·0
43	43	*	1	1	*
53	44	37	-	1	2·5
52	47	*	-	2	5·3
52	46	*	Tr	-	2·4
49	42	*	0·1	Tr	0·2
47	41	39	0·2	Tr	*
45	35	29	0·3	-	0·0
45	32	21	-	-	*
46	41	*	-	0·1	4·8
42	30	22	-	Tr	0·1
47	43	37	0·2	0·5	*
44	41	*	1	0·3	*
44	32	24	0·3	0·3	0·0
43	37	28	-	Tr	0·0
48	43	*	-	-	1·3
47	43	39	-	-	5·9
43	37	29	*	-	1·2
43	34	30	0·1	0·2	0·4
42	33	26	-	0·4	0·0
44	41	37	1	0·4	*
43	39	36	-	1	2·7
45	43	*	Tr	Tr	*
47	44		-	-	2·5
45	43	39	0·1	Tr	0·0
46	41	35	2	-	0·7
46	38	32	0·2	1	0·6
48	43	*	2	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 9th December 18h. G.M.T. — 01h. G.M.T. 10th December 07h. G.M.T.

13h. IIICLCM	13h. wwVhNh	13h. DDFWN	18h. CLCM	18h. wwVhNh	18h. DDFWN	01h. CLCM	01h. wwVhNh	01h. DDFWN	07h. CLCM	07h. wwVhNh	07h. DDFWN
109 5-	02967	13227	5-	02867	12327	3-	02767	11257	57	02754	13225
115 24	02964	12324	18	01964	12314	20	01962	12312	20	01962	12312
203						00	00990	12300			
206 50	01851	10314	50	01861	10211	04	01890	06313	00	00890	00010
210			5-	02865	03225	30	01863	10113			
219 83	02963	10125	24	01861	08101				50	01864	12314
230 50	02963	02226	50	01861	05101				50	01963	12213
245 57	61883	08227	53	02854	08366	83	02952	09225	50	02964	26187
260						8-	08				
277 54	01862	08413	5-	05655	07428	50	05682	09312	5-	05665	07325
279 50	05551	08313	50	08461	06313	54	08442	07413	57	08441	08312
285 23	05								20	41	
288 53	02864	06227	5-	02886	07126	03	01894	08164	5-	61658	00028
575 5-	51636	27458	5-	51548	10358	5-	05645	12128	5-	05548	12128
301 03	05590	07414	07	08490	08428	50	05663	08313	40	05563	08383
321 54	01762	08323	53	04564	06227				5-	45064	28144
299 8-	02		5-	02		00	00		5-	62748	10368
292 5-	02754	08127	5-	05667	06127	5-	51668	06228	5-	28746	04186
310											
614 53	43325	08347	5-	43		5-	47		00	47	

13h. IIICLCM	13h. wwVhNh	13h. DDFWN	18h. CLCM	18h. wwVhNh	18h. DDFWN	01h. CLCM	01h. wwVhNh	01h. DDFWN	07h. CLCM	07h. wwVhNh	07h. DDFWN
338 57	05644	07414	57	61566	06467	57	05556	04367	57	05663	14325
334 --	53537	10288	--	51327	02328				--	01642	08113
340 6-	62446	11468	5-	47328	12468	5-	03445	12326	5-	47315	12328
136 5-	05666	12226	05	05697	10227	5-	05677	32227	5-	02776	08368
336 --	46										
350 57	05524	08325	5-	08428	08328	5-	47328	08258	--	46109	00049
368 62	62634	08368	02	61428	08368				5-	08448	12468
379			03	45330	10346	--	48109	10349	--	46109	10249
390 53	45336	10247	5-	47128	08148	--	44109	00049	5-	08428	06128
382 5-	05644	45328	53	47351	07213	5-	05538	05148	--	44109	00049
438 87	02		--	08438	09428	--	48108	86449	54	08466	06815
430 52	22		5-	05		5-	08		5-	08	
409 27	02953	14215	24	01853	10313	53	02754	09426	57	02863	09525

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.
CL CM = 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 10th December, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington.
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution Milligrams of solid impurity per cubic metre.
Kew ...	cm_0	cm_0m	cm_0	Kew 24 hours ended 7h. Max. Time
Croydon	cm_0	cm_bbcmcm	r_0smcF	
Greenwich ...	c	cm	c/-c	
Camden Square	c	c	*	
Kensington ...	cbc	bcc	*	Min. Time
Hampstead ...	om	o	om	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % Today
Kew	43	35	35	-	-	0·0	*	*
Croydon ...	44	32	31	-	Tr	0·6	*	*
Greenwich ...	42	34	33	-	-	0·1	90	95
Westminster ...	43	36	36	-	-		87	97
Regents Park ...	42	35	34	-	-		87	91
Camden Square	42	36	36	-	-	*	*	96
Kensington ...	43	36	34	-	-		91	94
Hampstead ...	40	33	27	-	-	-	*	98

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

SECRET

Saturday 11th December 1943

No. 22969.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility. 0–9	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)	24·7	+6	ENE	4	z_o	41	65	30	6	5	3	–	7-8	9	2100
	Croydon ...	24·6	+2	ENE	4	z_o	40	75	32	6	2	3	–	4-6	7-8	2500
	S. Farnborough	24·2	-2	NE	3	o/-	40	85	37	3	5	–	–	10	10	800
	Boscombe Down	23·7	+2	E'N	3	z_o	39	92	37	5	5	–	–	7-8	7-8	3000
	Thorney Island	23·0	-2	NE	2	m	41	85	36	4	5	–	–	10	10	1600
	Lympne ...	23·7	+10	NE	5	b-bc	37	65	27	8	5	–	–	2-3	2-3	2500
	Manston ...	23·9	+10	E	5	c-bc	39	65	27	8	5	–	–	7-8	7-8	2000
2	Shoeburyness ...	25·3	+6	E	5	c-bc	40	65	28	8	5	–	–	7-8	7-8	4500
	Felixstowe	25·6	-6	ENE	4	c	41	65	27	8	5	–	–	10	10	2000
	Gorleston ...	25·4	+8	E	6	cq	41	75	33	7	8	4	–	7-8	9	1500
	Mildenhall ...	26·1	+6	E'S	4	b-bc	41	65	30	8	5	–	–	2-3	2-3	4000
	Cranwell ...	27·0	+14	SE	3	bc	40	75	32	8	5	3	–	4-6	4-6	2000
3	Birmingham ...	25·1	+6	ESE	3	m	39	97	39	4	5	–	–	10	10	1500
	Upper Heyford	24·7	+6	E	3	z_o	40	85	36	5	5	3	–	4-6	9	800
	Ross-on-Wye	24·5	+4	E'N	3	z_o	39	92	37	5	5	–	–	10	10	500
5	Hartland Point	20·1	0	E	4	c	42	85	38	7	5	–	–	9+	9+	2500
	Bristol ...	24·6	-2	ENE	3	z_o	38	92	35	6	5	–	–	4-6	9+	500
	Portland Bill ...	22·0	+6	NE	4	c	45	85	40	7	2	–	–	9	9	5000
	Plymouth ...	21·7	+8	E	3	c/r	45	92	43	7	5	7	–	4-6	10	1000
	The Lizard ...	19·2	+4	E	3	c/pr	49	85	46	7	5	2	–	7-8	9+	2500
	Scilly (St. Mary's)	18·8	+2	SSE	4	c-bc	53	75	47	8	8	4	–	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	22·5	+8	ESE	5	cq	43	85	38	6	5	6	–	7-8	9	2000
7	Holyhead (Valley)	24·3	+10	E'N	1	c-bc	47	65	37	7	–	3	–	0	7-8	–
	Chester (Sealand)	25·4	+16	SSE	1	m	40	85	37	4	5	–	–	7-8	7-8	2000
8	Manchester ...	25·8	+2	SE'E	2	c/d	41	55	26	6	5	3	–	7-8	9	1000
10	Spurn Head ...	27·3	+8	ESE	5	c	42	55	28	8	7	–	–	9+	9+	2500
	Catterick (Sc)...	27·8	+8	ESE	3	c-bc	41	85	38	7	5	3	–	4-6	7-8	2800
	Tynemouth ...	28·5	+8	SE	4	bc	43	75	32	8	1	–	–	4-6	4-6	1800
11	St. Abbs Head	27·2	+2	SE	4	c	42	85	37	8	1	3	–	4-6	9	3000
	Leuchars ...	28·3	+6	SE	4	z_o	43	85	39	6	5	–	–	9+	9+	5500
12	Renfrew (Abbots I.)	27·0	+2	–	0	c-bc/r	39	85	35	2	5	–	–	7-8	7-8	3000
	Eskdalemuir ...	27·0	+6	ESE	2	c/d	39	85	35	6	5	2	–	7-8	10	1800
	Point of Ayre...	25·4	+6	SSE	5	b	46	75	38	8	1	–	–	1	1	1000
13A	Tiree	24·6	+4	SE	5	bc	44	85	39	9	1	3	–	1	4-6	2500
13B	Stornoway ...	24·7	+6	SSE	3	b	46	65	35	9	5	–	–	Tr	Tr	4000
15	Dalwhinnie ...	26·8	+2	SSW	3	c-bc	38	85	34	8	8	–	1	4-6	7-8	2000
	Aberdeen ...	29·1	+8	S'E	4	c	44	65	34	7	7	–	–	4-6	9	1500
	Wick ...	27·7	+2	SSE	3	c-bc	45	75	35	9	5	–	–	7-8	7-8	2000
16	Sumburgh ...	28·8	0	SE'E	3	c	44	75	37	9	5	–	–	9+	9+	2500
17	Blacksod Point	19·0	+4	SE'E	6	bc	48	85	44	8	8	–	–	4-6	4-6	1500
18	Malin Head ...	21·8	0	ESE	4	c-bc	45	75	38	8	8	–	–	7-8	7-8	2500
	Aldergrove ...	23·6	+2	SE'E	4	z_o	44	85	39	5	5	7	–	Tr	7-8	2500
19	Birr Castle ...	20·8	+4	ESE	2	c	46	85	42	7	5	2	–	7-8	9	2500
20	Valentia Obsy.	17·8	+6	SE	4	bc	52	75	44	9	8	–	–	4-6	4-6	2500
	Roches Point	19·5	+4	ESE	4	c/r	49	97	46	7	6	2	–	4-6	9	800

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	26·7	+14	ENE	4	z_o	37	55	22	5	–	–	–	0	0	–	1	*
	Croydon ...	26·7	+16	ENE	2	bf+	34	75	26	3	–	–	–	0	0	–	0	*
	S. Farnborough	26·4	+10	NE'N	3	z_o	35	75	28	5	5	–	–	2-3	2-3	1500	0	*
	Boscombe Down	25·8	+18	ENE	2	z_o	34	75	26	6	5	–	–	Tr	Tr	4000	0	*
	Thorney Island	25·8	+12	NE'N	3	b	34	75	28	8	-	3	–	0	1	—	1	*
	Lympne ...	26·1	+16	ENE	4	b-bc	34	65	24	7	5	–	–	2-3	2-3	2000	0	5/4 *
	Manston ...	25·5	+6	E'N	4	bc	37	65	27	8	5	–	–	4-6	4-6	3300	1	*
2	Shoeburyness ...	26·6	+10	E	4	c-bc	37	75	29	8	5	–	–	7-8	7-8	4000	1	*
	Felixstowe	26·4	+6	ENE	5	bc	35	65	27	8	5	–	–	4-6	4-6	2000	0	3
	Gorleston ...	27·9	+22	ENE	4	c-bcq	40	65	30	7	8	–	–	7-8	7-8	1500	0	4
	Mildenhall ...	27·9	+14	NE'E	2	b	31	85	28	8	-	–	–	0	0	—	1	*
	Cranwell ...	28·7	+10	E	1	z_o	35	92	33	6	-	3	–	7-8	7-8	—	0	*
3	Birmingham ...	26·7	+14	E	2	m	35	75	28	4	–	7	–	0	Tr	–	1	*
	Upper Heyford	26·8	+12	E'N	2	z_o	33	85	29	6	5	–	–	4-6	4-6	3000	1	*
	Ross-on-Wye	26·5	+14	E'N	2	b	35	75	29	6	5	–	–	Tr	Tr	2000	1	*
5	Hartland Point	22·9	+20	E	5	bc	35	85	30	7	4	4	–	4-6	4-6	2500	1	4
	Bristol ...	26·6	+16	E	2	z_o	37	75	30	6	5	–	–	Tr	Tr	4500	1	*
	Portland Bill ...	23·7	+10	NE	4	c	42	85	37	7	5	–	–	10	10	4500	1	4
	Plymouth ...	23·4	+14	E	4	z_o	42	92	40	6	5	–	–	10	10	4000	1	2
	The Lizard ...	21·2	+12	E	5	c	47	85	42	7	5	–	–	10	10	1500	1	4
	Scilly (St. Mary's)	20·3	+14	SE	3	c	49	85	45	7	8	–	–	9+	9+	1000	1	3
	Guernsey ...																	
6	Pembroke ...	24·6	+10	ESE	6	cq	42	85	38	6	8	–	–	9+	9+	1500	0	3
7	Holyhead (Valley)	26·1	+18	–	0	z_o	35	85	31	6	–	–	–	0	0	–	1	1
	Chester (Sealand)	28·1	+22	SE	2	bf	38	75	31	3	–	–	–	0	0	–	0	*
8	Manchester ...	28·7	+20	E	1	z_o	34	85	30	6	1	4	–	Tr	Tr	2000	1	*
10	Spurn Head ...	28·9	+8	ESE	4	bc	42	65	32	8	7	–	–	4-6	4-6	2500	1	3
	Catterick (Sc)...	29·3	+4	NE	1	z_o	34	92	32	6	5	7	–	4-6	10	2500	1	*
12	Renfrew (Abbots I.)	29·3	+8	SSE	3	c-bc/pr	42	75	34	7	5	–	–	7-8	7-8	1500	1	3
	Eskdalemuir ...	29·2	+12	–	0	c-bc	35	85	30	6	7	3	–	7-8	7-8	1100	1	*
	Point of Ayre...	26·3	+8	SSE	6	c	44	85	39	7	6	–	–	9+	9+	1000	0	
13A	Tiree	25·7	+10	SE	6	bc	44	85	39	7	1	–	–	4-6	4-6	2500	0	4
13B	Stornoway ...	25·8	+10	S	4	b	45	65	40	8	5	–	–	1	1	3500	1	3
15	Dalwhinnie ...	28·2	+6	SSE	3	bc	36	85	32	8	8	–	–	4-6	4-6	2500	0	*
	Aberdeen ...	30·1	+6	SSE	3	z_o	42	65	31	6	5	–	–	9+	9+	4000	1	3
	Wick ...	28·6	+6	S	5	b	43	85	38	9	–	–	–	0	0	—	1	*
16	Sumburgh ...	30·1	+6	S'W	3	pr	44	85	38	8	8	–	–	9+	9+	2000	1	3
17	Blacksod Point	20·2	+12	SE	6	c	47	85	43	7	8	–	–	10	10	1500	1	5
18	Malin Head ...	23·4	+10	SSE	3	b	43	75	36	7	–	4	–	0	1	—	1	3
	Aldergrove ...	25·7	+12	SE	3	m	42	85	37	4	5	–	–	2-3	2-3	1000	1	*
19	Birr Castle ...	22·1	+8	SSE	1	c	44	85	39	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	19·2	+10	SE	4	b-bc	43	75	42	9	8	–	–	2-3	2-3	2200	1	3
	Roches Point	21·1	+14	ESE	5	c/r	43	97	48	7	6	2	–	4-6	10	800	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 10th (39)	Weather. 13h.—18h. 10th (40)	Weather. 18h. 10th—1h. 11th (41)	Weather. 1h.—7h. 11th (42)
1	London (Kew)	$c\dot{f}m\dot{m}_o$	b, cbz_oy	$b\,m\dot{f}$	$cm\,x$
	Croydon ...	$oF\dot{c}f\dot{f}bcz_o$	$bz\dot{b}\dot{f}$	$b\dot{c}b\dot{f}x$	$c\dot{f}s$
	S. Farnborough	$o\dot{f}$	$o\dot{f}\dot{c}z_o\dot{b}\dot{c}z_o\dot{b}z_o$	$b\dot{z}_o z\dot{f}$	$b\dot{f}\dot{c}s_o\dot{m}_o m$
	Boscombe Down	cm_o	$cm_o\dot{b}m_o$	$\dot{b}m_o$	$cm_o\dot{b}m_o\dot{b}cm_o$
	Thorney Island	$cm_o cm$	$cm\dot{b}cb$	$\dot{b}\dot{b}c$	$\dot{b}\dot{b}cm_o x$
	Lympne ...	$cm\dot{r}_o m_o c$	$\dot{b}\dot{c}b$	$\dot{p}\dot{c}\dot{b}\dot{c}\dot{c}x$	$co\dot{p}h\dot{s}m$
	Manston ...	$o\dot{f}\dot{c}\dot{r}_o c$	$\dot{c}ps_o\dot{b}c$	$\dot{b}\dot{c}\dot{r}\dot{c}ps$	$\dot{c}p\dot{s}_o$
2	Shoeburyness ...	$cm\dot{c}$	$\dot{c}\dot{b}\dot{a}\dot{c}$	$\dot{c}p\dot{s}_o$	$\dot{c}p\dot{s}_o H\dot{s}_o$
	Felixstowe	$\dot{c}\dot{c}\dot{y}$	$\dot{c}y\dot{b}y\dot{b}\dot{c}$	$\dot{c}y\dot{c}p\dot{r}_o h\dot{c}$	$\dot{c}p\dot{r}_o\dot{c}t\dot{l}r\dot{s}m_o$
	Gorleston ...	$\dot{c}q\,\dot{p}r_o$	$\dot{c}\dot{c}q$	$\dot{e}p\dot{r}_o\dot{p}hq$	$\dot{c}p\dot{r}_o r q_o$
	Mildenhall ...	$\dot{c}\dot{b}\dot{c}$	$\dot{b}\dot{b}\dot{c}\dot{b}$	$\dot{b}\,x\,cm_o x$	$cm_o\dot{x}i\dot{s}_o\dot{b}\dot{c}x$
	Cranwell ...	$cm_o\dot{c}$	$\dot{b}\dot{c}$	$\dot{b}m_o\dot{b}cm_o$	cm_o
3	Birmingham ...	cm	$\dot{c}\dot{b}\dot{c}m$	$\dot{b}\dot{c}\dot{b}m\,x$	$\dot{b}m\dot{c}x$
	Upper Heyford	$oF\dot{c}m\dot{c}m_o$	$cm_o\dot{b}\dot{c}$	$\dot{b}\,\dot{c}\dot{b}m_o x$	$\dot{b}m_o x\dot{c}i\dot{s}_o$
	Ross-on-Wye	om_o	$om_o cm_o\dot{b}$	$\dot{b}\dot{b}x$	$\dot{b}m_o x$
5	Hartland Point	$\dot{c}$	$\dot{c}\dot{b}\dot{c}$	$\dot{b}\dot{c}\dot{c}\dot{b}\dot{c}$	$\dot{b}\dot{c}\dot{b}q_o$
	Bristol ...	$cm_o cm_o cm_o$	$cm_o\dot{b}m_o$	$\dot{b}m_o x$	$\dot{b}m_o x\dot{b}m\,x$
	Portland Bill ...	$o\dot{c}$	$\dot{c}$	$\dot{e}\dot{c}$	$\dot{e}\dot{c}$
	Plymouth ...	$cr_o r_o m_o$	$r_o\dot{r}_o cm_o$	$\dot{b}\dot{c}m_o\dot{b}$	$\dot{b}\dot{b}x$
	The Lizard ...	$cp\dot{r}r_o m_o$	$\dot{c}r\dot{r}\dot{r}\dot{c}$	$o\dot{p}r\dot{c}$	$\dot{c}\dot{b}\dot{c}$
	Scilly (St. Mary's)	$cp\dot{r}\dot{r}_o\dot{c}$	$c\,r\dot{r}\dot{r}\dot{c}$	$\dot{c}i\dot{r}_o\dot{c}$	$\dot{c}\dot{b}\dot{c}$
	Guernsey ...				
6	Pembroke ...	$\dot{b}\dot{c}\dot{c}p_o\dot{c}$	$\dot{c}$	$\dot{c}i\dot{r}_o\dot{c}$	$\dot{c}\dot{b}\dot{c}$
7	Holyhead (Valley)	$cm_o q$	$cm_o q$	$\dot{b}\dot{c}$	$\dot{b}\dot{c}q$
	Chester (Sealand)	$\dot{b}\dot{c}m_o\dot{b}\dot{c}y$	$\dot{c}\dot{b}\dot{c}\dot{b}m_o$	$\dot{b}m_o z_o x$	$\dot{b}x$
	Manchester ...	$\dot{o}\dot{p}\dot{p}$	$cm\dot{f}\dot{f}$	$\dot{b}\dot{b}\dot{c}s\dot{s}$	$\dot{p}\dot{f}\dot{f}$
8	Manchester ...	$\dot{b}c\dot{f}\dot{f}d_o m$	$\dot{c}\dot{b}\dot{c}\dot{b}z_o m_o$	$\dot{b}m_o\dot{c}\dot{b}m_o x$	$\dot{b}m\dot{m}_o\dot{b}fx$
10	Spurn Head ...	$\dot{c}$	$\dot{b}\dot{c}$	$\dot{c}$	$o\dot{r}\dot{c}$
	Catterick (Sc)...	$cm\dot{i}r_o m_o c$	cm_o	$\dot{b}\dot{c}m_o$	$\dot{b}\dot{c}m_o cm_o$
12	Renfrew (Abbots I.)	$\dot{c}\dot{b}\dot{c}$	$\dot{c}p_o$	$\dot{c}$	$\dot{c}$
	Eskdalemuir ...	$bc\,x\,id_o$	$id_o c$	$\dot{c}b\,x$	$\dot{b}x\dot{b}x m_o$
	Point of Ayre...	$\dot{b}\dot{c}b$	$\dot{b}\dot{b}\dot{e}\dot{c}$	$\dot{e}\dot{b}\dot{b}\dot{c}$	$\dot{c}$
13A	Tiree	$\dot{b}\dot{c}v$	$\dot{b}\dot{c}v\dot{b}\dot{c}$	$\dot{b}\dot{b}\dot{c}\dot{c}\dot{b}\dot{b}\dot{c}$	$\dot{c}m_o\dot{b}\dot{c}$
13B	Stornoway ...	$\dot{b}$	$\dot{b}$	$\dot{b}\dot{b}\dot{c}$	$\dot{b}\dot{c}\dot{b}\dot{c}$
15	Dalwhinnie ...	$cp\dot{r}_o$	$\dot{c}\dot{b}\dot{c}$	$\dot{c}$	$\dot{c}\dot{b}$
	Aberdeen ...	$\dot{b}\dot{c}\dot{r}\dot{c}\dot{f}\dot{c}\dot{r}\dot{c}$	$\dot{c}\dot{b}\dot{c}\dot{c}z_o$	$\dot{c}z_o$	$\dot{c}z_o$
	Wick ...	$\dot{b}\dot{c}\dot{c}\dot{b}\dot{c}$	$\dot{b}\dot{c}\dot{b}\dot{c}\dot{b}$	$\dot{b}\dot{b}\dot{c}\dot{b}$	$\dot{b}$
16	Sumburgh ...	$\dot{c}$	$cp\dot{r}_o$	$cp\dot{r}_o$	$cp\dot{r}_o$
17	Blacksod Point	$\dot{b}\dot{c}$	$\dot{c}$	$\dot{b}\dot{c}$	$\dot{b}\dot{c}$
18	Malin Head ...	$\dot{b}\dot{c}$	$\dot{b}\dot{c}$	$\dot{b}\dot{c}$	$\dot{b}$
	Aldergrove ...	$m_o\dot{c}m\dot{b}\dot{c}m$	$\dot{b}\dot{c}m_o\dot{b}\dot{c}m\dot{b}\dot{c}$	$\dot{c}m_o\dot{b}\dot{c}m_o\dot{b}\dot{c}m_o$	$\dot{b}m_o x$
19	Birr Castle ...	$\dot{c}$	$\dot{c}$		$\dot{b}$
20	Valentia Obsy.	pr	$\dot{b}\dot{c}$	$\dot{b}\dot{c}$	$\dot{c}$
	Roches Point	r	r	$\dot{r}$	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 11th December 1943

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... W. Midlands	Fresh to moderate northeast wind; mainly cloudy with local wintry showers; some bright periods. Mainly moderate or good visibility; cold with local frost at night.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Moderate northeast wind. Fine at first possibly cloudy later. Good visibility; cold with slight or keen frost tonight
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 0-4
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or light southerly wind; fine; mainly good visibility; cold with keen frost tonight.
16 Orkneys and Shetlands	Moderate southerly wind; cloudy; good visibility; rather cold.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 12-15.

GENERAL INFERENCE

Pressure is high to the northeast of the British Isles. It will be fine in the North and the West but mainly cloudy with some wintry showers in the East and south of England and also in the Midlands; cold with some frost at night, particularly in the West and North.

FURTHER OUTLOOK

Little change

Forecasts issued at 1030

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

7h Saturday 11th December, 1943.

LOW

HIGH

1020 1022 1024 1026 1028 1030 1032 1034

10° 5°W. 0° 5° E. 10°

60° 55° 50°

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

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

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

Pr. 524/4582 Wt. 6091 D. 4545. 9/43 S48/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of
Saturday 11th December
1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Saturday 11th December 1943 — No. 23969

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

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	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon ...	290	27·7	0	·	0	ef	30	92	28	3	5	-	-	9+	9+	2500
	S. Farnborough	226	27·8	-4	NE	2	bf	30	85	27	3	5	-	-	1	1	5000
	Boscombe Down	417	27·8	+4	NE	2	Z_o	30	85	26	5	5	-	-	9	9	4000
	Thorney Island	10	26·6	0	N'E	1	c	32	85	28	7	5	-	-	9+	9+	5000
	Lympne ..	341	26·4	-2	NE	2	phr	33	85	30	7	9	-	-	9	10	2000
	Manston ...	154	26·3	-2	E'N	4	bc/ps	38	75	31	8	2	-	-	4-6	4-6	3500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	27·4	-2	ENE	5	c	39	75	32	7	5	-	-	9	9	2500
	Gorleston ...	5	27·5	-2	E	5	c/pr	41	76	33	7	8	-	-	9+	9+	2500
	Mildenhall ...	15	28·2	-6	NE'N	2	Z_o	33	85	30	6	5	-	-	9+	9+	3500
	Cranwell ...	203	30·0	-2	NNW	1	Z_o	31	92	29	6	-	3	-	0	4-6	7800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·8	+6	ENE	3	Z_o	39	65	26	6	5	-	-	2-3	2-3	3000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24·9	+6	E	5	bcq	34	75	28	7	5	-	-	4-6	4-6	1500
	Bristol ...	209	29·0	+8	NE	1	Z_o	28	92	26	5	-	-	-	0	0	-
	Portland Bill ...	32	25·9	+10	NE	4	c-bc	38	85	35	7	2	-	-	7-8	7-8	4500
	Plymouth ...	86	25·4	+4	E'N	5	b	36	85	31	7	5	-	-	Tr	Tr	3000
	The Lizard ...	240	23·7	+8	E	6	c	43	75	36	6	5	7	-	7-8	9+	2000
	Scilly (St.Mary's)	163	22·6	+8	ESE	6	c	47	75	40	9	5	-	-	10	10	1500
	Guernsey ...	175															
6	Pembroke ...	142	27·4	+4	ESE	6	b-bc	38	75	31	7	8	-	-	2-3	2-3	1500
7	Holyhead (Valley)	32	28·7	+6	ESE	2	b	32	75	26	7	-	-	-	0	0	·
	Chester (Sealand)	16	30·4	+10	—	0	f-	26	92	21	8	-	-	-	0	0	·
8	Manchester ...	230	30·6	+10	-	0	m	30	85	26	4	-	-	-	0	0	·
10	Spurn Head ...	29	30·1	0	NE	3	c	41	55	27	6	7	-	-	9	9+	5700
	Catterick (Sc) ...	192	31·5	+4	W	2	Z_o	29	97	29	6	-	3	-	7-8	7-8	8000
	Tynemouth ...	108	31·2	+4	SE	4	c	43	55	29	7	5	-	-	10	10	2500
11	St. Abbs Head	280	31·4	+8	SE	3	bc	37	86	32	6	7	-	-	4-6	4-6	4000
	Leuchars ...	31	31·2	0	S	1	Z_o	34	92	32	6	-	-	-	0	0	-
12	Renfrew (Abbotsl.)	19	30·7	+4	-	0	c-bcf+	33	92	31	2	-	3	-	0	7-8	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	29·4	+6	S	5	bc	40	65	31	8	5	-	-	4-6	4-6	1200
13A	Tiree	44	27·3	+4	SSE	6	Z_o	45	75	38	5	5	7	-	9	9+	2000
13B	Stornoway ...	12	27·3	+2	SSW	4	b-bc	41	75	35	8	2	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	31·4	+4	SSW	2	c	38	85	33	8	5	-	-	9+	9+	3000
	Wick ...	114	29·5	0	S	4	b	40	75	34	9	5	-	-	Tr	Tr	2500
16	Sumburgh ..	15	31·3	+6	S'E	5	pr	43	75	35	8	8	8	-	4-6	9+	2000
17	Blacksod Point	18	12·6	+10	E'S	6	b-bc	48	92	41	7	8	-	-	2-3	2-3	1500
18	Malin Head ...	84	25·5	+10	SE'S	5	b-bc	41	85	37	6	-	3	-	0	2-3	-
	Aldergrove ...	294	28·8	+10	SE'S	2	Z_o	37	76	31	6	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·0	+6	SE	4	b-bc	50	75	43	8	2	-	-	2-3	2-3	1900
	Roches Point	22	23·7	+10	ESE	6	c/r	48	92	46	8	6	2	-	4-6	9	1500

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

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)
26·7	-4	N'E	2	m	34	85	31	4	5	3	-	7-8	10	400	1	*
26·5	-6	NE	2	s&sf	34	92	32	3	-	2	-	10	10	1500	1	*
26·3	-8	N'W	1	m	33	92	31	4	3	-	-	7-8	7-8	1000	3	*
26·3	+2	N'E	3	Z_o	31	97	30	6	-	3	-	0	4-6	-	9	*
25·6	-6	N'E	3	Z_o	32	85	29	6	5	7	-	2-3	4-6	3000	3	*
25·0	-6	NE'E	3	bc/s	33	92	31	6	9	6	-	4-6	4-6	2000	4	4
25·0	-6	E'S	5	c	37	75	29	7	2	-	-	9+	9+	3000	6	*
25·8	-2	NNE	1	c	34	92	32	7	5	-	-	9+	9+	3000	6	*
26·5	-6	NE	5	Hrs	37	75	30	6	8	-	-	4-6	9	2000	1	3
27·1	-2	ENE	5	c/pr	40	75	32	7	6	-	-	10	10	1000	1	5
27·6	-2	NE'N	3	bc	33	92	31	7	5	-	-	4-6	4-6	3500	3	*
29·3	0	N'W	3	Z_o	34	97	33	6	5	7	-	9	9	3000	8	*
29·3	-2	N	2	m	32	85	27	4	5	4	-	7-8	9+	1500	1	*
28·1	-2	NNE	3	c/s	31	97	31	6	5	-	-	2-3	9	3500	3	*
28·8	-4	E	1	Z_o	27	97	26	5	5	3	-	1	1	2500	3	*
26·1	+10	E	5	bq	35	85	32	8	-	-	-	0	0	·	0	4
28·6	-4	N	1	m	28	92	26	4	5	4	-	Tr	1	3000	3	*
26·0	-4	NE	4	c-bc	36	86	33	7	5	-	-	7-8	7-8	5000	1	·
26·8	+10	ENE	4	b	35	75	29	7	5	-	-	Tr	Tr	3000	0	2
24·2	0	ENE	6	bc	41	75	35	7	2	-	-	4-6	4-6	2500	1	5
23·6	+2	SE'E	5	bc	43	56	30	8	8	6	-	2-3	4-6	1500	1	5
28·4	+4	E'S	5	b-bcq	36	86	33	7	1	-	-	2-3	2-3	3000	0	4
30·1	+10	N'E	1	b	25	92	23	3	-	-	-	0	0	·	3	*
30·5	+2	-	0	bf	25	97	24	2	-	-	-	0	0	·	3	*
30·7	-2	N'E	2	b-bcf+	26	97	26	1	-	-	3	-	2-3	2-3	8000	3	*
29·8	0	ENE	5	c	42	65	32	7	8	-	-	9+	9+	2500	1	4
31·9	+4	NNW	2	Z_o	31	97	30	5	5	-	-	2-3	2-3	4000	3	*
32·3	+6	ESE	3	c	42	85	38	7	5	-	-	9+	9+	2500	1	3
31·8	+2	SSW	3	b-bc	36	75	27	6	4	-	-	2-3	2-3	2500	0	3
32·1	+2	-	0	fg	27	97	27	5	-	-	-	0	0	-	3	*
32·3	+12	-	0	bf-	27	97	26	3	-	-	-	0	0	·	3	*
32·8	+10	NNW	1	b	23	85	18	6	-	-	-	0	0	·	3	*
31·9	+12	S'E	4	b-bc	40	65	31	8	1	-	-	2-3	2-3	1800		
24·2	+6	SE'S	5	b-bcjp	41	85	37	7	5	-	-	2-3	2-3	2500	1	4
27·5	+8	SE	2	b	37	75	30	7	-	-	-	0	0	·	1	2
30·1	+4	SSE	2	Z_o	33	85	29	6	5	3	-	1	1	2000	1	*
25·7	+6	SSE	3	b	36	75	29	8	-	-	-	0	0	-	1	*
22·0	+4	SE'S	4	Z_o	49	75	42	6	5	-	-	9+	9+	2200	6	3
25·4	+6	ESE	5	bc	46	85	42	8	5	-	-	4-6	4-6	1500	1	4

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 10th Hrs. (38)
41	32	19	-	-	0·1
41	28	23	-	Tr	0·0
40	35	15	-	0·1	0·0
43	27	24	-	-	0·1
42	28	21	Tr	Tr	*
41	32	26	Tr	Tr	2·4
42	38	32	Tr	3	2·1
41	32	31	Tr	-	2·4
42	36	28	0·2	1	2·5
43	40	31	Tr	2	1·9
41	27	18	-	Tr	3·4
40	29	32	Tr	-	2·3
40	27	18	-	-	0·0
40	28	21	-	Tr	*
40	27	16	-	-	0·0
44	33	31	-	-	0·1
40	24	19	-	-	0·0
46	34	*	-	-	*
47	34	25	1	-	0·0
45	41	*	1	Tr	0·1
53	41	*	0·2	1	2·5
44	34	*	-	-	0·0
45	25	18	-	-	*
41	25	15	-	-	0·3
42	25	16	Tr	-	*
43	38	*	-	1	1·2
41	26	18	0·1	-	0·9
45	41	37	0·2	-	*
43	35	*	0·3	-	*
43	20	17	1	Tr	0·8
42	27	23	-	-	0·0
40	22	14	Tr	-	0·4
46	28	*	-	-	3·9
48	42	38	-	-	1·1
47	33	25	-	-	6·8
39	28	25	Tr	-	0·0
48	36	33	-	-	1·3
52	48	42	Tr	-	2·9
50	45	*	8	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 10th December 18h. G.M.T. — 01h. G.M.T. 11th December 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	25865	12385	20	01762	46422	23	02864	47425	00	05690	16400
115 20	01962	12312	20	01962	16212	20	01962	20212	50	01964	20314
203											
206 50	05661	00001	03	05674	00014	00	05590	00010	00	05690	00000
210 50	01962	12112	5-	01862	13312	00	00890	14200	00	00890	14200
219 56	01862	14513	54	01864	14414	·			50	01763	14423
230 50	01961	08211	5-	02856	08226	50	01761	00021	·		
245 73	02744	14427	53	02744	14427	5-	02767	20287	50	01753	26113
260						00	A5		00	A1	
277 83	01863	09313				5-	02765	18425	7-	02615	08226
279 5-	05564	08324	50	05653	08113	00	05590	08100	50	05542	04102
285 62	61								53	02	
288 23	01863	09363	57	02755	13227	5-	02867	12327	5-	02743	00027
575 53	05544	12326	53	05645	14126	00	05690	12100	20	01761	13111
301 57	08454	08315	54	08451	10342	00	08190	08100	00	47390	07140
321 77	02854	10365	50	05674	32124				5-	05568	30148
299 54	01		5-	02		5-	02757	08317	50	02	
292 26	01854	12456									
310 62	02626	05	20	01							
614 57	05		7-	05565	32115	04	05		5-	05	

13h. G.M.T. 10th December 18h. G.M.T. — 01h. G.M.T. 11th December 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 03	02786	02326	03	05590	04322				00	00890	00000
334 --	02645	10316	--	03637	18328				--	00741	32102
340 5-	08438	14318	00	05690	14220	00	08190	08200	50	08452	02102
136 50	01864	10314	00	00890	08100	50	02865	04285	5-	26765	04285
336 50	05										
350 50	01854	06344	50	04761	06211	50	00766	30216	5-	02664	02324
368 57	03543	39415	57	04445	08328	00	05690	24110	50	05653	04203
379 5-	41427	04348				00	05620	08200	53	26663	08385
390 53	05644	06426	07	05690	00011	8-	83557	02117	8-	83548	04218
382 5-	05644	07347	5-	01663	04213	00	05690	03310	07	05636	02826
438 82	02		8-	01		8-	02656	04516	8-	83648	04588
430			54	01764	04314	50	01		50	05564	04224
409 57	02755	10527	57	02776	10428	00	00800	03610	00	00890	06800

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 11th December, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington; 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cfmmo	b,cbz$_p$ y	bmfcmx	Kew 24 hours ended 7h. Max. Time
Croydon ...	ofefbcz$_o$	bzbf	bcbfxcfs	0·5 10h
Greenwich ...	c	cb	bcisss$_m$	Min. Time
Camden Square	o	bc	*	20·1 11th 1/5h
Kensington ...	ofbc	bccbc	*	
Hampstead ...	of	bcs	os	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h %	Humidity 9h %
						Yesterday	To-day	
Kew	41	32	19	-	-	0·1	*	*
Croydon	41	28	23	-	Tr	0·0	*	*
Greenwich ...	40	33	27	-	0·3	0·7	67	88
Westminster ...	42	34	27	Tr	*	*	71	91
Regents Park ...	41	32	22	-	Tr	*	64	90
Camden Square	41	32	24	-	Tr	*	*	92
Kensington ...	41	32	25	-	Tr	-	65	85
Hampstead ...	39	30	25	-	0·1	*	*	93

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

~~SECRET~~

Sunday 12th December, 1943

No. 29970

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	26·0	-8	ENE	4	c/rs	37	85	32	4	5	–	–	9	9+	1800
	Croydon ...	26·1	-6	ENE	2	prs$_0$	33	97	33	3	9	–	–	9	10	1000
	S. Farnborough	25·5	-14	N'E	3	gr c-bc/ps	38	85	33	6	8	–	–	10	10	1000
	Boscombe Down	26·0	-8	NNE	3		35	92	33	6	5	–	–	4-6	7-8	700
	Thorney Island	25·2	-4	NE	3	ps	33	97	33	4	6	–	–	10	10	500
	Lympne ...	25·2	-2	ENE	5	b/ps	35	75	29	7	2	–	–	4-6	4-6	2500
	Manston ...	*	*	NE'N	4	c-bc	36	75	29	7	2	–	–	7-8	7-8	3000
2	Shoeburyness ...	25·9	0	E	4	c	39	65	29	8	5	–	–	9+	9+	2000
	Felixstowe ...	26·5	+4	NE	5	z$_0$	41	55	28	6	5	–	–	10	10	2000
	Gorleston ...	27·5	-6	E	6	cg	38	75	30	7	8	–	–	9+	9+	1600
	Mildenhall ...	27·3	-10	ENE	4	bc	40	75	32	8	2	–	–	4-6	4-6	3500
	Cranwell ...	25·2	0	E	2	pr	36	97	36	6	5	–	–	4-6	9+	1000
3	Birmingham ...	28·4	-4	NE	3	c/s	36	92	34	4	6	7	–	9+	10	1500
	Upper Heyford	27·5	-8	NE	4	z$_0$	36	85	33	6	5	–	–	7-8	9+	1200
4	Ross-on-Wye	27·8	-8	E'N	3	m	35	85	31	4	5	–	–	10	10	800
5	Portland Point	26·7	+4	E	4	bc	39	85	36	8	2	–	–	4-6	4-6	4000
	Bristol ...	27·5	-10	NE	2	c/ps	35	85	32	4	2	3	–	2-3	9	2000
	Portland Bill ...	25·3	-12	NE	4	c-bc	38	85	33	8	2	–	–	7-8	7-8	5000
	Plymouth ...	26·0	-6	ENE	3	b-bc	40	75	32	8	1	–	–	2-3	2-3	2500
	The Lizard ...	25·5	+6	ENE	5	bc	41	75	32	8	2	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	26·0	-6	NE'E	3	b	44	85	41	8	1	–	–	1	1	1500
	Guernsey ...															
6	Pembroke ...	28·9	0	E'N	4	b-bc	40	75	32	7	2	–	–	2-3	2-3	3000
7	Holyhead (Valley)	30·9	+4	–	0	z$_0$	40	85	35	6	2	–	–	Tr	Tr	4000
	Chester (Sealand)	29·8	-10	E'N	1	bf-	33	85	29	3	–	–	–	0	0	–
8	Manchester ...	30·1	-8	NE	3	z$_0$	37	75	29	6	5	3	–	2-3	4-6	5000
10	Spurn Head ...	30·3	+10	E	6	c	41	75	33	7	7	7	–	7-8	9+	1500
	Catterick (Sc.) ...	31·9	+4	N	3	z$_0$	40	75	32	6	8	3	–	4-6	7-8	4000
	Tynemouth ...	32·6	-2	E	3	c	43	75	30	8	5	–	–	9	9	2600
11	St. Abbs Head	32·9	+6	S	1	c	40	85	35	8	5	7	–	7-8	10	3000
	Leuchars ...	33·8	+6	W	1	m/f	32	92	30	4	5	–	–	10	10	4500
12	Renfrew (Abbotsl.)	33·5	+2	–	0	bf-	26	97	25	3	–	–	–	0	0	–
	Eskdalemuir ...	33·1	+4	–	0	c	34	85	30	8	5	–	–	9+	9+	1600
	Point of Ayre ...	31·6	+4	SE	3	b	44	65	31	8	1	–	–	1	1	3000
13A	Tiree	30·2	+2	SSE	5	c-bc	43	97	43	7	2	–	–	7-8	7-8	2000
13B	Stornoway ...	29·6	0	S	5	z$_0$	42	75	36	7	7	–	–	2-3	2-3	2200
15	Dalwhinnie ...	32·3	+4	SW	3	b	33	85	28	8	1	–	–	Tr	Tr	2500
	Aberdeen ...	33·6	+6	SW	1	z$_0$	40	65	29	6	5	–	–	9+	9+	2400
	Wick ...	32·0	+2	S'W	2	b	40	65	30	8	1	–	–	Tr	Tr	2500
16	Sumburgh ...	32·4	+2	SSW	5	c	43	65	33	9	5	–	–	10	10	2500
17	Blacksod Point	26·4	+2	SE	6	b-bc	41	85	36	7	8	–	–	2-3	2-3	2500
18	Malin Head ...	29·3	+8	S'E	1	b	41	65	30	8	4	–	3	1	1	2500
	Aldergrove ...	31·4	+4	SE	1	z$_0$	42	65	30	6	5	–	–	Tr	Tr	2500
19	Birr Castle ...	28·9	+10	SSE	2	b	42	55	27	8	–	–	–	0	0	–
20	Valentia Obsy.	25·4	+2	E'S	5	b-bc	46	75	39	8	1	–	3	1	2-3	2600
	Roches Point	28·0	+6	SE	6	b-bc	45	75	38	8	5	–	–	4-6	4-6	2500

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

Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 0–12 Force (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	27·4	+12	NE	4	m	37	75	30	4	5	–	–	10	10	2500	1	*
Croydon ...	27·2	+8	NE	3	oft+	35	85	31	3	5	–	–	10	10	1500	6	*
S. Farnborough	27·3	+14	N'E	3	m	35	85	31	4	5	–	–	9+	9+	2000	1	*
Boscombe Down	27·3	+10	NE	1	z$_0$	34	85	30	5	5	–	–	9+	9+	2500	4	*
Thorney Island	26·0	+10	ENE	3	z$_0$	35	85	30	5	5	7	–	2-3	9+	2500	1	*
Lympne ...	26·4	+12	ENE	4	z$_0$	31	85	27	6	5	–	–	10	10	2100	4	§ 5
Manston ...	26·6	+10	E	4	c	37	65	28	7	2	–	–	10	10	2500	1	*
Shoeburyness ...	27·2	+6	NE	4	c	38	75	30	7	5	–	–	10	10	2500	1	*
Felixstowe ...	27·7	+12	ENE	4	z$_0$	39	65	29	6	5	–	–	10	10	2500	1	3
Gorleston ...	28·4	+2	E	6	c	39	65	28	7	9	–	–	10	10	1000	1	5
Mildenhall ...	29·0	+10	NE'E	3	c	35	85	30	7	5	–	–	10	10	3000	1	*
Cranwell ...	29·7	+10	NE	3	z$_0$	34	92	32	6	5	–	–	9	9	3000	0	*
Birmingham ...	29·5	+4	NE	3	c/s	35	92	33	4	6	–	–	9+	9+	5700	1	*
Upper Heyford	28·3	+14	NE'E	4	z$_0$	32	85	29	6	4	–	–	2-3	2-3	3000	3	*
Ross-on-Wye	28·6	+6	NE'N	3	m	34	85	31	4	5	3	–	1	1	1500	1	*
Portland Point	26·7	0	E	4	c-bc	40	75	32	7	9	2	–	4-6	7-8	1500	0	3
Bristol ...	28·4	+6	ENE	1	o-bcft	32	92	30	3	–	3	–	0	2-3	–	3	*
Portland Bill ...	28·9	+10	NE	4	c-bc	35	75	28	7	5	–	–	7-8	7-8	4500	1	4
Plymouth ...	27·0	+10	NE	4	z$_0$	37	75	31	6	8	7	–	4-6	9	2000	0	2
The Lizard ...	25·6	+2	N	4	bc	36	75	30	7	5	–	–	4-6	4-6	2000	1	4
Scilly (St. Mary's)	26·1	0	NE'N	5	bc	41	85	36	8	8	–	–	4-6	4-6	1500	1	4
Guernsey ...																	
Pembroke ...	28·9	+2	ENE	5	c-bc	38	85	35	7	5	6	–	4-6	7-8	3000	0	2
Holyhead (Valley)	31·1	+6	–	0	m	33	85	30	4	–	3	–	0	4-6	–	0	1
Chester (Sealand)	30·7	+6	–	0	cft+	36	85	31	2	5	3	–	2-3	9+	3000	3	*
Manchester ...	31·0	+6	NE	2	m	36	92	33	4	5	–	–	4-6	4-6	2500	1	
Spurn Head ...	31·4	+24	ESE	6	c	41	65	30	7	8	–	–	9+	9+	1500	1	4
Catterick (Sc.) ...	32·9	+10	NE	2	z$_0$	38	85	34	6	5	3	–	4-6	9	3500	1	*
Tynemouth ...	33·3	+6	E	4	c-bc	43	65	31	8	5	–	–	7-8	7-8	2500	1	3
St. Abbs Head	33·9	+6	SE	2	o	39	85	33	7	5	–	–	10	10	2500	0	3
Leuchars ...	34·4	+6	–	0	cf	34	85	31	3	5	2	–	7-8	10	3500	1	*
Renfrew (Abbotsl.)	33·9	+4	–	0	f	25	97	25	2	–	–	–	10	10	5150	3	*
Eskdalemuir ...	34·1	+6	N'E	2	b-bc	30	85	25	8	7	–	–	2-3	2-3	2800	3	*
Point of Ayre ...	31·6	0	SE	3	b	40	65	29	8	1	–	–	Tr	Tr	3000	0	3
Tiree	30·7	+6	SSE	5	bc	43	*	*	7	1	–	–	4-6	4-6	2500	0	4
Stornoway ...	30·4	+8	S	6	z$_0$	42	65	32	6	5	–	–	9+	9+	2500	0	4
Dalwhinnie ...		+8	S	3	b	31	85	27	8	1	–	–	1	1	3000	3	*
Aberdeen ...	34·5	+6	SW	1	oft	39	75	31	3	5	–	–	10	10	4000	1	1
Wick ...	32·5	+4	SW	3	b	33	92	31	8	–	–	–	0	0	–	0	*
Sumburgh ...	32·7	+2	S'W	4	c	43	65	23	8	5	–	–	9+	9+	2500	1	3
Blacksod Point	27·1	-2	SE	6	b-bc	41	85	37	7	8	–	–	2-3	2-3	4000	1	4
Malin Head ...	30·0	+2	S	1	b	37	75	30	8	–	–	–	0	0	–	1	2
Aldergrove ...	31·8	+6	SE	1	z$_0$	35	75	28	6	5	–	–	4-6	4-6	3000	1	*
Birr Castle ...	29·2	+6	SSE	1	b	34	75	27	8	–	–	–	0	0	–	1	*
Valentia Obsy.	27·0	+6	ESE	4	b	41	65	30	9	1	–	3	Tr	Tr	2500	1	2
Roches Point	28·8	+6	E	5	b-bc	43	75	36	8	5	4	–	1	2-3	2500	1	4

PAST 24 HOURS. — WEATHER.

Stations.	7h.—13h. 11th (39)	13h.—18h. 11th (40)	18h. 11th—1h. 12th (41)	1h.–7h. 12th (42)
London (Kew)	cr$_2$s$_0$m$_0$	cbccm	cm	cmm$_0$
Croydon ...	cfprs$_0$	cfprscmcfofcm		mm$_0$cm
S. Farnborough	cmis$_0$m$_0$f$_0$m$_0$	cm$_0$ss$_0$cpr$_0$	cmm$_0$	cm$_0$c
Boscombe Down	bcm$_0$cps$_0$	cm$_0$pxcm$_0$	cm$_0$	cm$_0$
Thorney Island	cbcm$_0$cmprs		cm$_0$	cm$_0$
Lympne ...	cz$_0$cm$_0$prs		cz$_0$m$_0$	cm$_0$
Manston ...	cps$_0$pr$_0$c	bcc	cm$_0$	cm$_0$
Shoeburyness ...	cps$_0$tpr$_0$c	c	c	cm$_0$
Felixstowe ...	cm$_0$bccm$_0$	cm$_0$ephcm$_0$	cz$_0$c	cm$_0$cz$_0$
Gorleston ...	bccq	cqpr$_0$cq	or	cq
Mildenhall ...	cbcc	bceps$_0$bc	c	c
Cranwell ...	ccm$_0$cpr$_0$	bcczm	cm$_0$	cm$_0$
Birmingham ...	cis$_0$	cish$_0$	cdcom	om
Upper Heyford	cm$_0$ps$_0$	cm$_0$bcbjp	bmbc	c
Ross-on-Wye	cmp$_0$is$_0$	r$_0$mcbm		cm$_0$xcm$_0$
Portland Point	bbc	bcc	cb	
Bristol ...	bax, cbcfps$_0$cmcfcabax		bfxcfxcm$_0$x	cm$_0$x
Portland Bill ...	c	prrc	cb	o
Plymouth ...	bxb	bbcz$_0$	bz$_0$xbx	cxcm$_0$x
The Lizard ...	bc	bc		bcc
Scilly (St. Mary's)	bc		cbcb	bc
Guernsey ...				
Pembroke ...	bc	bcc	bcm$_0$x	bccm$_0$x
Holyhead (Valley)	bm$_0$	bm$_0$m	bmm$_0$x	bx
Chester (Sealand)	bc	bc	cff$_2$0m$_0$	bcffc
Manchester ...	cffbcz$_0$	cz$_0$cm	bz$_0$cz$_0$m$_0$	cbbcm$_0$x
Spurn Head ...	c	c	c	c
Catterick (Sc.) ...	cm	cm$_0$bccm$_0$	cm$_0$	cm$_0$cbc
Tynemouth ...	c	c	cpc	c
St. Abbs Head	cm$_0$	m$_0$co	bccr6	cr6c
Leuchars ...	bfrxcfx	cm$_0$xcf	cfbcm	cbccbmx
Renfrew (Abbotsl.)	bfx	bofx	cfxbfx	bffx
Eskdalemuir ...	bbccx	cvbcx	bcxcy	cbcx
Point of Ayre ...	by	bccb	bbcc	cbc
Tiree	bbcc	cbc	bcc	c
Stornoway ...	bcm$_0$	bcm$_0$cm$_0$	em$_0$bcc	bcc
Dalwhinnie ...	bbcb	b	*	b
Aberdeen ...	cbccmz	cz$_0$cf	cfc2$_0$	c2$_0$bccx
Wick ...	bfgbcc	b	bbcc	bcc
Sumburgh ...	c	c	c	c
Blacksod Point	bc	b	b	b
Malin Head ...	b	b	b	b
Aldergrove ...	bm$_0$xbz$_0$	bz$_0$bcz$_0$x	c2$_0$bcbx	bbccx
Birr Castle ...	b	b$_1$	*	bc
Valentia Obsy.	bc	b	b	b
Roches Point	bc	bc	c	bc

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

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

Moderate eastnortheast wind; generally cloudy, chance of slight local wintry precipitation in east; cold.

Districts.	
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man

Light variable winds; fair with considerable bright periods in most districts; cold with local frost.

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

Southwesterly winds, mainly moderate, but strong to gale in Western Islands; cold with local night frost in east.

Districts.	
16	Orkneys and Shetlands

As 13A - 15

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

Light or moderate southeast or south winds; fair; cold with local night frost.

GENERAL INFERENCE

An anticyclone centred east of the British Isles is spreading west or southwest; weather will be mainly dry and cold over the British Isles, with local frost.

FURTHER OUTLOOK

Little change.

Forecasts issued at 10·30.

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

7h. Sunday 12th December, 1943.

Low

HIGH

1020 1022 1024 1026 1028 1030 1032 1034 1036

10° 5° W. 0° 5° 10°

60° 55° 50°

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

STATION MODEL

High Cloud

Medium cloud

Low cloud

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Temperature °F.

Present weather

Visibility

Dew Point °F

Amount of Low cloud

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

Scale 1.: 5,000,000

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

Pt. 524/4582 Wt. 8091 0. x545. 9/43 948/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Sunday 12th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.,

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

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

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

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

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

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

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

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

Sunday 12th December, 1943 — No. 23270

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	38									
	Croydon ...	290	28·8	0	NE	3	m/f	36	85	33	4	5	–	–	10	10	1500
	S. Farnborough	226	28·8	+2	NNE	3	2o	36	85	33	6	5	–	–	10	10	1400
	Boscombe Down	417	28·5	+2	NNE	2	2o	33	85	30	5	5	–	–	10	10	3500
	Thorney Island	10	27·5	0	NNE	3	2o	36	85	32	5	5	–	–	9+	9+	2500
	Lympne ...	341	28·1	+6	ENE	4	2o	36	85	31	6	5	–	–	9+	10	1200
	Manston ...	154	28·5	+10	E'N	4	2o	37	85	32	6	2	–	–	10	10	1200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	29·9	+8	ENE	4	c	39	75	32	7	5	–	–	10	10	1800
	Gorleston ...	5	30·6	+14	E'N	5	cq	38	75	32	7	8	–	–	10	10	1000
	Mildenhall ...	15	30·9	+6	NE'E	3	c	37	75	31	7	5	–	–	10	10	2000
	Cranwell ...	203	31·9	0	ENE	2	2o	36	85	31	6	5	–	–	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	30·2	+6	NE'E	4	c	33	85	29	7	5	–	–	10	10	3300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	28·0	-4	E	4	b	37	75	29	7	4	–	–	1	1	2500
	Bristol ...	209	30·3	+4	NE	3	2o	32	85	29	5	5	–	–	10	10	3000
	Portland Bill ...	32	27·5	+10	NE	4	o	35	75	29	7	5	–	–	10	10	4000
	Plymouth ...	86	28·2	+2	NE	3	b	34	85	29	7	–	–	–	0	0	–
	The Lizard ...	240	26·6	0	E	5	b-bc	37	85	32	7	2	–	–	2-3	2-3	2000
	Scilly (St. Mary's)	163	27·2	+4	E'N	5	b-bc	38	91	37	8	1	–	–	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	30·6	+6	E'N	4	b-bc	34	85	29	6	2	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	32·4	+4	–	0	b	29	85	24	7	–	–	–	0	0	–
	Chester (Sealand)	16	32·7	+2	–	0	2s	34	85	29	5	5	–	–	9+	9+	4100
8	Manchester ...	230	33·0	+4	NE'N	2	2s	34	85	30	6	5	–	–	9+	9+	3000
10	Spurn Head ...	29	32·4	0	E'S	4	c.	41	75	32	7	7	–	–	9+	9+	1500
	Catterick (Sc.) ...	192	34·5	0	–	0	2o	35	91	35	6	5	3	–	7-8	9+	2000
	Tynemouth ...	108	34·2	+8	E	3	c	43	55	30	7	5	–	–	9+	9+	2500
11	St. Abbs Head	280	34·0	0	S	1	if6	38	75	32	7	5	–	–	10	10	2500
	Leuchars ...	31	34·4	-6	-	0	m	34	85	31	4	5	4	–	2-3	2-3	6000
12	Renfrew (Abbotsl.)	19	34·3	-2	–	0	bf	23	91	22	1	–	–	–	0	0	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	32·7	+4	S'E	4	c	40	85	35	8	9	–	–	9	9	1800
13A	Tiree	44	31·0	-6	SSE	5	b-bc	42	75	34	7	5	3	–	Tr	2-3	1000
13B	Stornoway ...	12	29·9	-6	SSE	5	b-bc	39	75	31	7	5	–	–	2-3	2-3	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	34·6	+2	SSW	2	c	38	75	31	8	5	–	–	10	10	3500
	Wick ...	114	32·2	-10	S	3	c-bc	36	85	33	7	–	7	6	0	7-8	–
16	Sumburgh ..	15	32·4	-6	SSW	6	c	44	75	35	9	8	–	–	4-6	9	2500
17	Blacksod Point	18	27·4	-8	SE'S	6	b	39	75	32	7	8	–	–	1	1	4000
18	Malin Head ...	84	20·4	-2	SE'S	2	b	37	65	26	8	–	–	–	0	0	–
	Aldergrove ...	294	32·3	-2	–	0	b-bc	34	85	30	7	2	6	–	1	2-3	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·2	-6	SE'E	4	b	41	65	30	9	5	–	1	Tr	1	4000
	Roches Point	22	29·0	-2	E	5	c	45	75	38	8	5	–	–	9	9	2500

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

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)	31·4	+16	NE	4	2o	37	85	32	5	5	–	–	10	10	1800	1	*
	Croydon ...	30·7	+10	NE	2	m	37	85	34	4	5	–	–	10	10	900	1	*
	S. Farnborough	30·9	+14	NNE	3	2o	37	85	33	6	5	–	–	10	10	1300	1	*
	Boscombe Down	30·4	+14	NE	3	2o	35	85	32	6	5	2	–	7-8	10	1500	4	*
	Thorney Island	29·4	+12	NE	2	2o	38	85	34	6	5	–	–	7-8	10	1500	1	*
	Lympne ...	29·8	+10	ENE	4	2o	35	85	32	6	5	–	–	10	10	800	1	5
	Manston ...	29·7	+8	ENE	4	2o	37	85	33	6	5	–	–	10	10	1100	1	*
2	Shoeburyness ...	30·6	+12	NNE	4	2o	39	85	34	6	5	–	–	10	10	2500	1	*
	Felixstowe ...	31·5	+12	NE	4	2o	38	75	32	6	5	–	–	10	10	1900	0	3
	Gorleston ...	31·5	+6	ENE	5	cq	37	75	31	7	8	–	–	10	10	1200	0	5
	Mildenhall ...	32·2	+10	ENE	4	c	36	75	30	7	5	–	–	10	10	2400	*	*
	Cranwell ...	33·3	+8	E'N	3	2o	37	85	32	6	5	–	–	10	10	2300	0	*
3	Birmingham ...	32·7	+6	E	2	m	35	75	28	4	5	–	–	10	10	1500	1	*
	Upper Heyford	31·8	+10	NE'E	3	c	34	85	30	7	5	–	–	10	10	1200	1	*
4	Ross-on-Wye	31·7	+6	NE	2	c	35	75	29	6	5	–	–	10	10	2000	1	*
5	Hartland Point	30·1	+16	NE	4	c	37	92	34	7	5	–	–	9	9	1500	0	3
	Bristol ...	31·7	+10	NE	2	2o	35	85	31	6	5	–	–	10	10	2000	0	*
	Portland Bill ...	29·2	+20	NE	4	c	34	75	28	7	8	–	–	10	10	4000	1	4
	Plymouth ...	30·0	+10	ENE	3	2o	37	85	32	6	5	–	–	10	10	1700	1	1
	The Lizard ...	28·1	+20	E	4	c	40	85	35	7	5	–	–	9	9	2000	1	4
	Scilly (St. Mary's)	29·8	+22	E'S	4	b	38	75	31	8	1	–	–	1	1	1500	1	4
6	Pembroke ...	31·6	+8	E	3	c-bc	35	85	32	7	2	7	–	4-6	7-8	2000	0	3
7	Holyhead (Valley)	33·4	+12	–	0	b	30	75	22	8	5	–	–	Tr	Tr	3000	3	1
	Chester (Sealand)	33·2	+6	–	0	0/+	32	92	32	3	5	–	–	10	10	3500	3	*
8	Manchester ...	33·3	+6	NNE	1	2o	30	92	28	5	5	3	–	1	4-6	3000	3	*
10	Spurn Head ...	33·3	+6	E	4	c	41	75	33	7	7	–	–	9+	9+	1500	0	4
	Catterick (Sc.) ...	34·8	+2	E	2	c-bc	36	85	33	8	3	3	–	2-3	7-8	2300	1	*
	Tynemouth ...	34·0	+4	SE	3	c	43	55	30	7	5	–	–	9+	9+	2500	0	3
11	St. Abbs Head	33·5	-6	S	2	c	39	85	35	7	6	–	–	9+	9+	2500	0	3
	Leuchars ...	34·6	+2	–	0	2o	30	91	30	6	5	3	–	1	7-8	6000	3	*
12	Renfrew (Abbotsl.)	34·9	+6	–	0	bf	21	91	20	3	–	–	–	0	0	–	3	*
	Eskdalemuir ...	34·3	0	–	0	c-bc	32	85	28	8	5	9	–	1	7-8	2400	3	*
	Point of Ayre ...	33·0	+4	S	4	c-bc	41	75	32	8	2	–	4	7-8	7-8	1000	0	3
13A	Tiree	31·9	+12	SSE	5	c-bc	43	75	36	8	5	–	–	7-8	7-8	2000	0	5
13B	Stornoway ...	30·0	+8	S	7	c	42	75	33	7	5	–	–	10	10	2200	0	5
15	Dalwhinnie ...	33·0	0	S	2	b-bc	27	92	24	8	1	–	3	Tr	2-3	3000	3	*
	Aberdeen † ...	34·1	0	SW	1	c-bc	36	75	27	8	5	4	6	Tr	7-8	4000	1	3
	Wick ...	31·7	-2	SSW	3	bc	36	85	32	9	–	–	2	0	4-6	–	0	*
16	Sumburgh ..	31·2	-10	SSW	5	c	43	75	36	9	5	3	–	9+	10	3000	1	3
17	Blacksod Point	29·0	+14	SE'S	4	b	42	75	35	7	5	–	–	1	1	4000	1	3
18	Malin Head ...	31·5	+14	SSE	2	b	36	75	29	7	–	3	–	0	Tr	7200	3	2
	Aldergrove ...	32·8	+6	SE	2	c	38	75	31	7	5	–	–	10	10	2700	1	*
19	Birr Castle ...	31·4	+14	SSE	1	b	31	85	27	8	–	–	–	0	0	–	1	*
20	Valentia Obsy.	28·6	+8	E	4	bc	40	65	29	8	–	–	3	0	4-6	–	1	3
	Roches Point	30·7	+14	E'S	4	6bc	43	75	36	8	5	–	–	7-8	7-8	2500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 18th Hrs. (38)
1	London (Kew)	39	36	34	0·4	–	0·1
	Croydon ...	36	35	34	4	–	0·3
	S. Farnborough	37	35	31	0·3	–	0·6
	Boscombe Down	43	32	31	0·4	–	0·6
	Thorney Island	37	33	30	1	–	*
	Lympne ...	36	35	33	1	–	1·7
	Manston ...	38	36	35	0·3	–	1·6
2	Shoeburyness ...	39	37	35	2	–	0·3
	Felixstowe ...	40	37	37	0·6	–	0·3
	Gorleston ...	40	37	34	1	–	1·0
	Mildenhall ...	40	35	32	0·1	–	3·3
	Cranwell ...	38	34	33	1	–	0·0
3	Birmingham ...	37	32	27	1	–	0·0
	Upper Heyford	38	30	27	0·3	–	*
4	Ross-on-Wye	37	30	22	0·1	–	0·1
5	Hartland Point	40	35	34	–	–	6·8
	Bristol ...	36	24	24	–	–	0·5
	Portland Bill ...	42	31	*	0·3	–	*
	Plymouth ...	41	33	25	–	–	6·3
	The Lizard ...	42	35	*	–	–	6·7
	Scilly (St. Mary's)	48	37	*	–	–	6·4
6	Pembroke ...	41	31	*	–	–	5·5
7	Holyhead (Valley)	41	26	16	–	–	*
	Chester (Sealand)	38	32	19	Tr	–	0·4
8	Manchester ...	38	29	18	–	–	*
10	Spurn Head ...	43	39	*	2	–	0·2
	Catterick (Sc.) ...	40	35	29	–	Tr	2·1
	Tynemouth ...	43	40	37	–	1	*
11	St. Abbs Head	40	37	*	–	Tr	*
	Leuchars ...	35	27	19	–	–	0·0
12	Renfrew (Abbotsl.)	28	20	10	–	–	0·0
	Eskdalemuir ...	34	26	19	–	–	1·9
	Point of Ayre ...	44	39	*	–	–	4·2
13A	Tiree	44	41	37	–	–	1·3
13B	Stornoway ...	43	39	36	–	–	4·1
15	Dalwhinnie ...	34	26	21	–	–	4·8
	Aberdeen † ...	40	35	24	–	–	0·6
	Wick ...	41	32	24	–	–	*
16	Sumburgh ..	44	43	40	Tr	–	0·0
17	Blacksod Point	42	38	*	–	–	*
18	Malin Head ...	40	33		–	–	5·5
	Aldergrove ...	43	32	23	–	–	5·8
19	Birr Castle ...	42	28	23	–	–	5·2
20	Valentia Obsy.	43	39	33	–	–	4·2
	Roches Point	46	43	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 11th December — 18h. G.M.T. — 01h. G.M.T. 12th December — 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	50	01763	15403	00	05630	42510	00	02730	17325	50	02763	50425
115	2o	01864	20214	24	01861	2o214	04	02890	20224	24	01864	20314
203										10	01	
206	00	05630	00000	00	05530	00000	00	01690	00004	00	01790	16114
210	00	00890	16100	00	00890	16200	00	02890	14215	00	02890	15225
219	8-	02754	18526	50	01764	16514						
230	5-	01761	08111	00	05690	00000				50	01761	00011
245	5-	02867	22227	53	05565	00027	--	05558	22128	5-	61757	23217
260	5-	43		--	46		50	05	..	00	05	
277	10	01852	08212	50	01761	07202	5-	05656	07316	5-	02757	08327
279	50	05564	00014	50	08452	00012	00	08490	08110	00	08490	04200
285	53	02								13	01	
288	70	01864	05324	57	26654	07285	5-	02866	00026	5-	02767	11127
575	00	00890	14100	00	00890	00000	00	05690	12120	00	05690	16110
301	53	05663	05245	04	05530	05223	06	05590	04125	00	05530	31200
321	8-	81654	02326									
290	80	02		80	02		5-	02				
292							5-	02754	04227	5-	02757	02227
310	23	01										
614	57	81		00	05630	06370	5-	05558	04228	57	05	

13h. G.M.T. 11th December — 18h. G.M.T. — 01h. G.M.T. 12th December — 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	24	01762	04303	03	08490	04316	10	00633	02203	57	05565	04127
334	--	05652	02213	--	05336	02117						
340	53	17453	02225	8-	85457	32177	5-	05557	06227	5-	05558	06228
136	86	02855	08485	8-	02767	06387	5-	02767	06327	5-	02758	05428
236	50	05										
350	26	05663	06424	46	01753	06314	5-	02758	06328	5-	02648	33428
368	00	05590	04210	50	08453	06223	5-	08458	04128	51	05557	08228
379	63	26425	02486	53	05653	02314	5-	05658	04328	5-	05658	06328
390	36	05645	06386	2-	05548	04228	5-	05548	04328	5-	05538	04328
382	87	05644	04376	5-	05656	04226	52	05656	04328	5-	05644	05328
438	87	02		8-	02		8-	05658	05628	5-	06	
430	36	83		--	05664	04226	5-	05		5-	02	
409	20	01852	02302	84	01653	04313	00	00690	04300	54	05651	06102

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 12th December, 1943.
Day 7h—18h: Kew and Croydon, 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	c5So Mo	cbccm	cmMo
Croydon ...	cfprSo	cfprSocmf	mocm
Greenwich ...	cisc	chSoc	cm
Camden Square			*
Kensington ...	c8bc	bcc	*
Hampstead ...	8Sxbcc	bc	c

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·3 15–16h. Min. Time 0·1 0–7h 12th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	39	36	34	0·4	–	0·1	*	*
Croydon ...	36	35	34	4	–	0·3	*	*
Greenwich ...	37	35	32	1	–	0·2	70	80
Westminster ...	39	36	34		1		74	81
Regents Park ...								
Camden Square						*	*	
Kensington ...	38	36	34	0·2	–		79	77
Hampstead ...	36	32	29	0·2	–		*	80

SECRET

Monday 13th December, 1943

Page 1

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

No. 29971

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

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)	33·4	+8	NE'N	3	z_o	37	75	30	5	5	–	–	10	10	2100
	Croydon ...	33·4	+10	NNE	3	of	37	85	32	3	5	–	–	10	10	1000
	S. Farnborough	33·6	+6	N	3	z_o	37	85	32	5	5	–	–	10	10	1200
	Boscombe Down	33·7	+2	NE'E	3	z_o	34	85	30	6	5	–	–	10	10	1800
	Thorney Island	32·7	+8	N'E	5	m	38	75	32	4	5	–	–	2-3	10	1000
	Lympne ...	32·7	+6	NE	3	z_o	35	85	31	6	5	–	–	10	10	1000
	Manston ...	32·4	+4	ENE	3	z_o	36	85	32	6	5	–	–	10	10	1200
2	Shoeburyness ...	34·6	+10	NE	3	z_o	38	85	33	6	5	–	–	10	10	2000
	Felixstowe ...	34·6	+10	NE'N	4	z_o	37	75	31	6	5	–	–	10	10	1800
	Gorleston ...	34·5	+22	NE'E	4	oq	37	85	33	6	8	–	–	10	10	1000
	Mildenhall ...	34·6	+6	NE'E	3	c	37	85	32	7	5	–	–	10	10	2000
	Cranwell ...	35·6	+8	E'N	3	z_o	39	75	33	6	5	–	–	9+	9+	3000
	Birmingham ...	34·9	+18	ESE	3	m	36	75	30	4	5	–	–	9+	9+	1500
	Upper Heyford	34·5	+6	ENE	4	z_o	35	85	30	6	5	–	–	10	10	1400
4	Ross-on-Wye	34·5	+4	ENE	2	z_o	35	75	29	6	5	–	–	10	10	1500
5	Hartland Point	33·1	+2	E	3	c	37	55	24	7	5	–	–	9+	9+	2500
	Bristol ...	34·3	+2	NE	3	z_o	36	85	30	6	5	–	–	10	10	1200
	Portland Bill ...	32·2	+8	NE	4	o	36	75	30	7	5	–	–	10	10	4000
	Plymouth ...	32·6	+2	ENE	3	z_o	39	85	34	6	5	–	–	9	10	2000
	The Lizard ...	30·1	-4	NE'E	6	z_o	42	75	36	6	5	–	–	10	10	1200
	Scilly (St. Mary's)	31·9	+8	ENE	3	c	43	85	38	7	5	–	–	10	10	1500
	Guernsey ...															
6	Pembroke ...	34·3	+6	E	4	z_o	38	85	34	6	5	–	–	10	10	2500
7	Holyhead (Valley)	35·4	+4	–	0	z_o	40	65	29	6	5	–	–	Tr	Tr	4000
	Chester (Sealand)	35·7	-2	SSE	2	z_o	38	75	30	5	–	–	–	0	0	–
8	Manchester ...	35·6	-2	ESE	1	z_o	36	85	32	5	–	–	–	0	0	–
10	Spurn Head ...	35·6	+6	ENE	4	c	41	75	33	7	7	–	–	9+	9+	1500
	Catterick (Sc.)...	36·7	+2	ESE	2	z_o	43	75	34	6	–	3	–	1	1	–
	Tynemouth ...	36·3	+4	S	3	c-bc	44	55	28	7	5	3	–	7-8	7-8	2300
11	St. Abbs Head	36·1	+2	S	3	bc	39	85	34	8	5	4	1	4-6	4-6	3500
	Leuchars ...	36·5	-8	–	0	z_o	35	85	31	5	5	–	1	Tr	1	4000
12	Renfrew (Abbotsl.)	36·4	-4	–	0	cf	29	97	28	1	5	–	–	9	9	5000
	Eskdalemuir ...	36·1	-6	–	0	b	36	65	25	8	–	–	–	0	0	–
	Point of Ayre...	35·2	-2	S	4	c-bc	42	65	33	8	2	–	–	7-8	7-8	1000
13A	Tiree	34·4	+18	SSW	5	bc	43	65	33	8	4	–	–	4-6	4-6	2500
13B	Stornoway ...	30·5	+6	S	6	c	43	75	36	8	8	–	–	9	9	2500
15	Dalwhinnie ...	35·0	-2	SW	3	b	34	55	20	8	1	–	9	Tr	1	3000
	Aberdeen ...	35·6	-10	SW	3	c-bc	42	55	28	7	5	–	6	1	7-8	4000
	Wick ...	34·1	-2	SW	1	b-bc	38	85	34	9	8	–	5	Tr	2-3	3000
16	Sumburgh ...	32·7	0	WSW	4	c	44	75	38	9	5	–	7	2-3	9	3000
17	Blacksod Point	31·5	+16	SE'S	4	c	42	75	35	7	5	–	–	9+	9+	4000
18	Malin Head ...	34·0	+18	S	2	b-bc	39	85	34	8	–	3	–	0	2-3	–
	Aldergrove ...	34·9	-6	ESE	1	z_o	35	75	33	6	5	7	–	7-8	10	2500
19	Birr Castle ...	34·2	+20	SE	1	bc	40	65	29	8	5	–	–	4-6	4-6	2500
20	Valentia Obsy.	31·8	+12	SE	4	c	45	65	34	8	–	7	1	0	9+	–
	Roches Point	33·7	+22	ESE	4	bc	43	75	38	8	5	–	1	4-6	4-6	2500

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

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)
35·4	+14	NE	4	z_o	36	85	32	5	5	-	-	10	10	2100	1	*
34·9	+16	NE	3	c/d	36	85	33	4	5	-	-	9	10	800	1	*
35·4	+14	N'E	3	m	36	85	32	4	5	-	-	10	10	1200	1	*
35·5	+14	NE	3	z_o	33	85	29	6	5	-	-	10	10	1200	0	*
34·0	+10	NE'N	4	m	37	75	31	4	5	-	-	2-3	10	1200	0	*
33·7	+6	NE	4	z_o	35	92	33	6	5	-	-	10	10	1200	0	4
33·8	+10	E'N	4	z_o	38	85	34	5	5	-	-	10	10	1600	1	*
34·1	+4	NNE	3	z_o	38	85	35	5	5	-	-	10	10	1700	0	*
34·1	+2	NE	3	z_o	37	85	34	5	5	-	-	10	10	1500	0	3
35·0	+2	E'N	4	c-bcq	38	75	32	7	8	-	-	7-8	7-8	1000	0	4
34·4	+14	ENE	2	z_o	36	85	32	6	5	-	-	10	10	1200	1	*
37·1	+10	E	3	z_o	37	85	34	6	5	-	-	9+	9+	2000	0	*
36·9	+14	NE	2	m	36	85	31	4	5	-	-	10	10	1500	1	*
35·8	+10	ENE	4	z_o	34	85	31	6	5	-	-	10	10	1600	1	*
36·5	+12	NNE	3	z_o	36	75	29	6	5	-	-	10	10	800	1	*
35·2	+10	ENE	3	c	37	85	34	7	5	-	-	9+	9+	2500	0	3
36·6	+14	NE	2	m	33	85	29	4	5	-	4	10	10	600	0	*
34·8	+12	NE	4	o	35	75	29	7	6	-	-	10	10	2000	1	4
36·5	+26	NE	2	z_o	36	85	31	5	5	-	-	10	10	1900	0	1
34·8	+2	NNE	3	z_o	40	85	35	6	6	2	-	7-8	10	1200	1	3
34·3	+10	ENE	4	c	44	85	39	6	5	-	-	10	10	800	1	3
37·3	+8	E	3	z_o	35	97	34	6	8	-	-	2-3	2-3	2600	0	2
37·7	+10	NNE	1	z_o	29	97	28	6	5	4	*	Tr	1	4000	0	1
37·3	+18	-	0	bf+	30	85	27	3	-	-	-	0	0	-	3	*
38·0	+20	N'W	1	bf	31	92	29	2	-	-	-	0	0	-	0	*
37·4	+12	NE	2	c	41	75	33	7	7	-	-	9+	9+	800	0	2
38·6	+14	-	0	z_o	30	97	30	5	5	-	-	8	8	5000	1	*
38·1	+16	S	3	c	42	65	32	7	3	-	-	9+	9+	2500	1	3
37·3	+6	SW	3	b-bc	37	85	32	7	4	-	-	2-3	2-3	4000	0	2
38·8	+18	NW	1	bf-	30	97	29	3	-	-	-	Tr	Tr	-	3	*
37·6	+2	E	1	of+	31	92	29	1	-	-	-	10	10	<150	3	*
38·8	+14	-	0	b	26	85	21	6	-	4	-	1	1	-	3	*
37·4	+12	-	0	z_o	38	85	34	6	6	-	-	4-6	9+	800	0	*
34·0	-6	S	5	c-bc	43	75	35	8	5	-	-	7-8	7-8	2500	1	5
32·7	+10	SSW	6	bc	43	75	35	7	5	-	-	4-6	4-6	1500	0	4
36·5	+14	SW	3	b	32	92	30	8	4	-	-	1	1	2500	3	*
38·3	+10	W	1	bf+	34	85	30	2	-	-	-	0	Tr	-	1	1
34·3	+4	SSW	2	b	35	85	32	9	-	-	-	0	0	-	3	*
33·9	+6	SSW	4	c-bc	43	75	37	8	5	-	8	7-8	7-8	3000	1	3
32·1	+2	SE'S	4	b-bc	39	85	35	7	-	-	5	0	2-3	-	1	3
34·0	-2	S'E	3	bc	35	75	25	8	-	-	6	0	4-6	3500	3	2
36·2	+2	-	0	z_o	34	85	29	6	5	-	-	4-6	4-6	3500	1	*
34·5	+6	SE	1	c	36	85	37	8	5	2	-	7-8	10	2500	1	*
33·0	+12	SE'S	4	bc	42	75	35	8	5	3	2	Tr	4-6	3500	1	2
34·7	+6	SE'E	4	c-bc	45	75	38	8	5	-	-	7-8	7-8	2500	1	4

PAST 24 HOURS.

Weather. 7h.–13h. 12th (39)	13h.–18h. 12th (40)	18h. 12th to 1h. 13th (41)	1h.–7h. 13th (42)
cm m_o	cm_o	cm_o	cm
cm_o f cf	$cc\,m_o$ cm	$cm\,c\,m_o$	cm_o cf
cm_o	cm_o m	cm	cm m_o
cm_o	cm_o	cm_o	cm_o
cm_o	$cz\,cz_o$ cz	cm_o	cm_o
cm m_o	cm_o	cm m_o	$cm\,c\,m_o$
cm_o	cm_o	cm_o	cbc
cm_o	cm_o	cm m_o	cm m_o bc m_o
cz_o cm $_o$	cm_o	$cc\,m_o$	cq
cq	cq	cq	cbx
c	$cc\,m_o$	$c\,m_o$ c	cm $_o$
cm_o	cm_o	cm_o	cm_o
$o\,cm_o$	cam	om	obf
$cc\,m_o$	$C\,m_o$	cm_o c	cbc bm $_o$ x
com $_o$	$cz_o\,oz_o$	o2o	cm_o
c	c	cbcb	bbc cm $_o$
cm_o	cm_o cz_o cm	$cz\,cm\,cm_o$	$cz_o\,cm_o$
o	oo	o	o
cm_o	cm_o	cm_o bm $_o$ x	cm_o x cm_o
cz_o	cz_o	cmz	cmz
bbcc	c	c	c
cm $_o$	$cb\,cm_o$	bccm $_o$	bcm $_o$ x
bcbm $_o$ h	$b\,z_o\,m_o$	bmm $_o$ x	bm $_o$ fx
$cf\,f\,m_o$	$b\,z_o\,m_o$	bff	bmffx
bcbm $_o$	$bm_o f$	bff	bffx
c	c	c	o
cbm_o	$b\,m_o\,bc\,m_o\,c$	$cm\,bc\,m_o$	bm $_o$ bm x
cbcc	c	cbcbm	bmom
m_o cbc	$b\,c\,f\,m_o$	bm $_o$	bmo
cm_o x bm $_o$	$bm_o\,bm\,bf$	bfx	bebfx
bfx cfx	$e\,f\,x\,e\,f\,x$	of bcfgfx	cfx
bcxbxv	bx	bx	bx
c	$c\,m_o$	c	rcz $_o$
cbc	bcbc	bcc	c
c	cbc	bcc	cbcc
bcb	b		bbc
cbc	b cbf w	bfwbfx	bfx
bcbbcb	b	bbm $_o$ bc	bcbbm $_o$
c	c	bcc	bcc
c	bc	bc	c
b	bc	b	bc
bcc	cm_o	bxbcxcx	bbccbccx
bc	c		b
c	bc	c	c
bc	bc	c	c

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

Districts.	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales	Light or moderate east to northeast wind; fair with long bright periods; local fog developing at night; cold with keen or hard frost in many places at night.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable to southwest winds; fine; local fog night and morning; cold with hard frost in many places at night.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Freshening south or southwest winds, strong to gale in Hebrides area; mainly cloudy, some rain in extreme northwest later; cold becoming milder.
16 Orkneys and Shetlands 17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 12- 15

GENERAL INFERENCE

An anticyclone centred off northeast England is moving slowly southwards; weather will be mainly fair and cold, with local fog and widespread frost at night; there will be freshening winds in the northwest where it will become milder with some rain later.

FURTHER OUTLOOK

Milder and unsettled in west and north; mainly fine and cold in southeast with night frosts and with some fog.

Forecasts issued at 10·30

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

7h. Monday 13th December 1943.

LOW

HIGH

1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032 1034 1036 1038

60° 55° 50° 10° 5°W 0° 5°E 10° 60°

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

STATION MODEL

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

Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

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

Morning of

Monday 13th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Monday 13th December 1943 — No. 2997/

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

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	*	*	*	*	*	37									
	Croydon ...	290	36·3	-2	NE	3	Zo	36	85	32	5	5	–	–	10	10	1500
	S. Farnborough	226	36·4	-2	N'E	3	m	36	85	31	4	5	–	–	9+	9+	1400
	Boscombe Down	417	36·3	-2	NE	3	Zo	34	85	31	6	5	–	–	10	10	900
	Thorney Island	10	35·2	-6	NNE	3	Zo	38	85	33	6	5	–	–	10	10	1500
	Lympne ...	341	33·5	-16	NE	5	m	37	85	34	4	5	–	–	10	10	800
	Manston ...	154	34·9	+6	NE'E	4	Zo	38	85	35	6	5	–	–	10	10	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	36·3	+10	NE	4	Zo	38	85	33	6	5	–	–	10	10	1500
	Gorleston ...	5	36·5	+2	NE	4	bc	40	85	35	6	2	–	–	4-6	4-6	2000
	Mildenhall ...	15	37·2	-2	NE'N	2	c	35	85	32	7	5	–	–	9+	9+	2000
	Cranwell ...	203	38·6	+2	NE	2	Zo	39	85	34	6	5	–	–	9+	9+	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	37·4	-2	ENE	3	c	35	85	30	7	5	–	–	9+	9+	1600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·7	-4	ENE	4	Zo	33	97	32	6	–	–	–	0	0	–
	Bristol ...	209	37·4	-6	ENE	3	Zo	35	85	30	5	5	–	–	10	10	1300
	Portland Bill ...	32	34·7	-2	NE	4	o	35	75	29	7	5	–	–	10	10	4000
	Plymouth ...	86	36·3	+2	NE	3	Zo	33	92	31	6	5	–	–	9+	10	2000
	The Lizard ...	240	35·1	0	ENE	4	Zo	37	85	33	7	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	163	35·6	+6	NE'E	3	c	39	85	35	7	8	–	–	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	37·8	+8	NE'E	3	Zo	34	85	29	6	2	–	–	3+	9+	2000
7	Holyhead (Valley)	32	38·0	+4	N	1	Zo	31	97	31	5	–	–	–	0	0	–
	Chester (Sealand)	16	30·6	+2	SSE	1	bf	27	97	27	2	–	–	–	0	0	–
8	Manchester ...	230	39·0	+2	NE	1	bf	24	97	23	1	–	–	–	0	0	–
10	Spurn Head ...	29	38·8	+4	ENE	3	c	42	75	34	7	7	–	–	3+	9+	1500
	Catterick (Sc) ...	192	39·7	-8	N	2	Zo	28	97	28	5	–	3	–	0	4-6	–
	Tynemouth ...	108	38·8	-4	S	2	m	35	85	31	4	–	–	–	0	0	–
11	St. Abbs Head	280	38·5	+10	NNW	2	Zo	36	85	32	7	–	–	–	0	0	–
	Leuchars ...	31	38·9	+10	NNW	2	bf	28	97	27	3	–	–	–	0	0	–
12	Renfrew (Abbots L.)	19	38·2	-2	NNE	1	cf	32	92	30	2	5	–	–	9+	9+	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	38·3	+4	S	3	Zo	40	85	35	6	5	–	–	9+	9+	2000
13A	Tiree	44	35·7	0	S	5	c	42	75	34	8	2	–	–	9+	9+	3000
13B	Stornoway ...	12	33·7	+6	SSW	5	c	42	75	34	7	5	–	–	9+	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	38·5	+6	–	0	fg	28	92	26	8	–	–	–	0	0	–
	Wick ...	114	35·7	+4	NNW	1	b-bc	27	97	26	7	–	–	5	0	2-3	–
16	Sumburgh ..	15	34·6	+2	SW'S	5	c	45	85	40	8	1	–	–	9	9	3000
17	Blacksod Point	18	32·7	-8	SE'S	4	bc	41	85	37	7	8	–	–	4-6	4-6	2500
18	Malin Head ...	84	35·7	0	SW	3	c	36	75	29	8	5	–	–	9	9	2500
	Aldergrove ...	294	38·3	+8	SW	1	c	36	85	31	7	5	3	–	9	10	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	32·7	-5	SE'S	4	c	45	78	38	8	5	–	–	9+	9+	3500
	Roches Point	22	36·5	+4	SSE	4	c	45	85	41	8	5	–	–	9	9	1500

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

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)	36·2	-2	NNE	2	m	36	85	32	4	5	–	–	10	10	2100	1	*
	Croydon ...	35·9	-2	NE	3	of+	37	85	33	3	5	–	–	10	10	2000	0	*
	S. Farnborough	35·8	-4	N	2	Zo	36	85	32	5	5	–	–	10	10	1400	1	*
	Boscombe Down	35·8	-18	ENE	4	Zo	34	85	31	6	5	–	–	9+	9+	1000	0	*
	Thorney Island	35·2	0	NE	3	Zo	36	85	32	6	5	–	–	2-3	9	1000	*	*
	Lympne ...	34·8	+2	NE	4	bbgjf	36	92	34	5	5	–	1	2-3	2-3	1000	0	2
	Manston ...	34·9	0	ENE	4	Zo	38	85	35	6	5	–	6	7-8	10	1500	1	*
2	Shoeburyness ...	35·7	-2	N	3	Zo	34	85	31	6	5	–	–	9	9	2500	1	*
	Felixstowe ...	35·9	-2	NE	3	Zo	39	85	34	6	5	–	–	4-6	4-6	2000	0	2
	Gorleston ...	35·2	-10	NE'E	4	cg	42	75	35	7	5	–	–	9	9	1500	0	4
	Mildenhall ...	36·9	0	N'N	3	Zo	30	97	29	6	5	–	–	2-3	2-3	3000	1	*
	Cranwell ...	37·4	-6	NE'E	2	Zo	36	85	33	6	5	–	–	7-8	7-8	3500	0	*
3	Birmingham ...	37·6	-2	NNE	1	oF+	34	85	31	1	5	–	–	10	10	450	1	*
	Upper Heyford	37·0	-2	ENE	1	Zo	29	97	28	6	5	–	–	Tr	Tr	2500	3	*
4	Ross-on-Wye	37·0	-6	NE	1	Zo	34	85	30	6	5	–	–	9+	9+	2000	1	*
5	Hartland Point	34·9	-8	ENE	3	Zo	35	92	33	6	5	–	–	9+	9+	2500	0	3
	Bristol ...	36·6	-6	E'N	3	Zo	35	85	31	6	5	–	–	10	10	1300	1	*
	Portland Bill ...	34·2	-4	NNE	4	o	35	75	29	7	5	–	–	10	10	4000	1	4
	Plymouth ...	35·8	-2	NE	3	Zo	34	92	32	5	5	–	–	9	10	1200	0	1
	The Lizard ...	34·2	-8	NE	3	Zo	38	85	35	6	5	–	–	10	10	1000	1	3
	Scilly (St. Mary's)	34·7	-6	E'S	3	c	39	85	34	6	5	–	–	10	10	1500	1	3
	Guernsey ...																	
6	Pembroke ...	36·2	-8	ESE	3	Zo	33	85	30	6	2	–	–	2-3	2-3	2000	3	2
7	Holyhead (Valley)	36·8	-6	E'S	1	mf	27	97	27	4	–	–	–	0	0	–	3	1
	Chester (Sealand)	38·0	-6	–	0	bf+	26	97	25	2	–	–	–	0	0	–	3	*
8	Manchester ...	38·3	-6	–	0	bf-	20	97	20	1	–	–	–	0	0	–	3	*
10	Spurn Head ...	38·1	-4	NE	3	c	42	75	34	7	7	–	–	10	10	1500	0	1
	Catterick (Sc) ...	38·9	-6	–	0	m	23	97	23	4	–	–	–	0	0	–	3	*
	Tynemouth ...	38·4	-4	W	2	m	32	85	29	4	–	–	–	0	0	–	3	2
11	St. Abbs Head	37·1	-8	W	1	b	34	85	31	8	–	–	–	0	0	–	0	2
	Leuchars ...	36·9	-10	–	0	bf+	27	97	26	3	–	–	–	0	0	–	3	*
12	Renfrew (Abbots L.)	37·2	-6	–	0	of+	33	85	30	2	5	–	–	10	10	4000	3	*
	Eskdalemuir ...	39·1	-8	–	0	b	17	85	14	6	–	–	–	0	0	–	3	*
	Point of Ayre ...	37·1	-6	S	4	Zo	39	85	34	6	6	4	–	9	9	1500	0	3
13A	Tiree	34·2	0	SSW	5	c	43	75	35	7	5	–	–	10	10	2500	0	4
13B	Stornoway ...	31·6	-4	S	6	c	43	65	33	7	5	–	8	4-6	9	2000	0	5
15	Dalwhinnie ...	35·5	-8	SW	3	bc	33	85	29	6	8	–	–	4-6	4-6	2500	3	*
	Aberdeen † ...	36·1	-12	SW	2	bf	32	85	28	3	–	–	5	0	1	–	3	1
	Wick ...	34·0	-6	SSW	3	Zo	33	85	30	6	–	–	–	0	0	–	3	*
16	Sumburgh ..	33·4	+2	SW	4	c	44	75	38	8	5	7	7	2-3	10	2000	1	3
17	Blacksod Point	31·4	-2	S	6	c	45	75	38	7	8	–	–	9+	9+	2500	0	5
18	Malin Head ...	34·1	-2	SSE	3	bc	38	75	31	8	5	–	–	4-6	4-6	2500	3	3
	Aldergrove ...	36·9	-2	–	0	c	31	97	30	7	5	–	–	10	10	2400	3	*
19	Birr Castle ...	34·6	+2	SE	1	b	32	92	30	8	–	–	–	0	0	–	1	*
20	Valentia Obsy.	32·5	-2	SSE	4	c	47	75	40	8	5	–	–	9+	9+	4000	1	3
	Roches Point	34·8	0	SSE	4	c	45	85	41	8	5	–	–	9	9	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 12th Hrs. (38)
1	London (Kew)	37	35	30	–	–	0·0
	Croydon ...	38	36	35	–	Tr	0·0
	S. Farnborough	37	35	31	.	–	0·0
	Boscombe Down	35	33	32	.	–	0·0
	Thorney Island	38	35	32	Tr	Tr	*
	Lympne ...	37	36	33	.	–	0·0
	Manston ...	38	37	36	.	–	0·0
2	Shoeburyness ...	39	33	30	–	–	0·0
	Felixstowe ...	38	34	31	.	–	0·0
	Gorleston ...	37	41	35	.	–	0·0
	Mildenhall ...	37	28	17	.	Tr	0·0
	Cranwell ...	37	35	28	Tr	–	0·0
3	Birmingham ...	37	34	25	–	–	0·0
	Upper Heyford	35	28	21	.	–	*
4	Ross-on-Wye	36	34	28	.	–	0·0
5	Hartland Point	38	33	31	.	–	0·0
	Bristol ...	36	34	30	.	Tr	0·0
	Portland Bill ...	37	33	*	.	–	*
	Plymouth ...	40	32	27	.	–	0·0
	The Lizard ...	43	34	*	.	–	0·0
	Scilly (St. Mary's)	44	38	*	.	–	2·2
	Guernsey ...						
6	Pembroke ...	48	31		–	–	0·0
7	Holyhead (Valley)	42	26	15	–	–	*
	Chester (Sealand)	39	25	15	–	–	2·9
8	Manchester ...	40	20	13	–	–	*
10	Spurn Head ...	42	39	34	–	–	0·0
	Catterick (Sc) ...	48	23	17	–	–	3·3
	Tynemouth ...	41	32	29	–	–	*
11	St. Abbs Head	41	31	*	.	–	*
	Leuchars ...	36	25	15	–	–	3·0
12	Renfrew (Abbots L.)	41	30	24	–	–	0·0
	Eskdalemuir ...	38	16	10	–	–	5·8
	Point of Ayre ...	43	37	*	–	–	1·3
13A	Tiree	45	40	37	–	–	2·9
13B	Stornoway ...	44	41	38	–	–	0·0
15	Dalwhinnie ...	34	31	25	–	–	4·0
	Aberdeen † ...	42	28	16	–	–	2·3
	Wick ...	40	26	19	–	–	*
16	Sumburgh ..	44	43	38	–	–	0·0
17	Blacksod Point	42	39	*	.	–	*
18	Malin Head ...	39	33		.	–	4·5
	Aldergrove ...	39	31	22	.	–	0·2
19	Birr Castle ...	41	32	25	–	–	3·2
20	Valentia Obsy.	44	42	37	–	–	1·5
	Roches Point	46	44	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC$_L$C$_M$	13h. G.M.T. 12th December wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 13th December C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
109	00 01780	15824	00	01780	19302	00	01790	19303	50	05690	00004
115	24 01864	20414	57	02854	20426	57	02744	20527	57	02854	20426
203									5-	03848	16528
206	00 01791	00011	00	05691	28111	00	05690	20200	00	05690	20100
210	00 01886	00013	00	02880	18313	00	05690	20204	00	05690	16104
219									5-	02758	16528
230	50 01852	12102	53	02653	00025				5-	05758	00028
245	5- 02867	23127	00	05590	26111	00	05590	24100	00	05590	21112
260			00	43		00	45		00	45	
277	5- 02858	12328				5-	05555	14225	5-	08447	12327
279	00 05590	08100	04	08490	00820	00	08490	00000	50	08441	08100
285	13 01								50	01	
288	53 01763	10214	53	05665	10126	00	05690	00000	00	08490	38426
575	53 01773	14103	50	01772	14223	5-	05667	14127	5-	05667	14227
301	00 08490	08100	00	45390	00040	00	45290	32240	00	08490	10140
321			5-	05658	00028	5-	05667	06127	5-	05668	00028
290			5-	02		70	02747	10325	5-	02	
292	53 01764	06115	5-	05658	00028	50	05562	00022	50	08463	00043
310											
614	5- 05		5-	05		5-	05		5-	05	

IIIC$_L$C$_M$	13h. G.M.T. 12th December wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 13th December C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
333	10 05653	06323	00	08490	00000	00	05690	00000	00	08490	20100
334									--	00690	00002
340	5- 05668	10328	5-	08457	00026	5-	08457	00047	5-	45344	01148
136	5- 02767	06327	5-	02748	04328	50	01765	06315	50	01764	05314
336									50	05656	08216
350	5- 05647	06327	5-	05548	04128	5-	05647	04327	50	05642	06222
368	5- 05537	04327	00	08490	06210				5-	05667	06326
379			5-	05548	04328				07	05693	06323
390	5- 05638	36428	5-	05513	04328	5-	05548	02328	57	05653	02114
382	5- 05644	04328	5-	05648	02228	5-	02747	39327	07	02793	06223
438	5- 05		5-	05555	04528				50	01	
430	5- 05		5-	05		5-	05		56	05	
409	50 01743	05324	50	01653	06313	00	05690	13200	5-	05648	14128

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 13th December. 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 ...	cmm$_o$	cm$_o$	cm$_o$	Kew 24 hours ended 7h. Max. Temp. 03 Sunsh 12th
Croydon	cm$_o$fcf	cm$_o$cm	cm$_o$cf	
Greenwich ...	cm	cm	cbm	Min. Temp. <0·4 0·3h 13th
Camden Square	0	0	*	
Kensington	oc	c	*	
Hampstead ...	bc	c	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	37	35	30	–	–	0·0	*	*
Croydon ...	38	36	35	–	Tr	0·0	*	*
Greenwich ...	37	35	30	–	–	0·0	80	66
Westminster ...	39	35	33	.	–		91	89
Regents Park ...	37	34	27	–	–		80	90
Camden Square ...	37	34	26	–	–	*	*	90
Kensington ...	38	35	29	–	–		87	77
Hampstead ...	35	32	27	–	–		*	94

SECRET

Page 1

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

Tuesday 14th December 1943 — No. 29972

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force. (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)	35·4	-6	NE'N	3	m	41	75	33	4	5	3	-	2-3	2-3	2800
	Croydon ...	35·3	-6	NE	2	bcf	40	75	34	3	5	-	6	2-3	4-6	3000
	S. Farnborough	35·1	-10	N'E	2	m	40	85	35	4	5	-	4	2-3	4-6	1400
	Boscombe Down	34·8	-14	ENE	3	Z_o	39	85	33	6	-	-	1	0	2-3	-
	Thorney Island	34·1	-14	NNE	3	m	41	75	33	4	-	-	1	0	1	-
	Lympne ...	34·5	-6	NE	4	Z_o	39	75	32	6	9	-	-	4-6	4-6	1500
	Manston ...	34·8	-4	ENE	4	Z_o	39	85	34	6	5	-	-	4-6	4-6	2000
2	Shoeburyness ...	35·0	-12	NE	3	Z_o	43	75	35	6	-	-	6	0	1	-
	Felixstowe ...	35·5	-10	NNE	4	b	43	75	34	7	-	-	-	0	0	-
	Gorleston ...	35·1	-10	NE'E	4	b-bc	41	85	38	7	1	-	-	2-3	2-3	3000
	Mildenhall ...	36·2	-16	ENE	3	b	41	85	35	8	-	-	2	0	1	-
	Cranwell ...	37·2	-8	E	2	c	40	85	35	7	5	-	-	9	9	2000
3	Birmingham ...	37·0	-6	E	2	Z_o	39	75	32	6	5	-	-	9+	9+	1500
(00)	Upper Heyford	35·9	-14	E'N	3	Z_o	41	85	36	6	5	-	2	2-3	4-6	2000
	Ross-on-Wye	36·5	-10	NE'E	2	c	38	75	31	6	5	-	-	9+	9+	2500
5	Hartland Point	34·6	-10	E	3	Z_o	36	85	33	6	4	-	4	2-3	2-3	2500
	Bristol ...	35·9	-14	NE	3	Z_o	38	75	32	6	5	-	-	9+	9+	1500
	Portland Bill ...	34·2	-8	NE	4	c	39	85	34	8	5	-	-	10	10	4500
	Plymouth ...	35·0	-10	E'N	2	Z_o	37	83	32	6	5	-	-	4-6	4-6	2000
	The Lizard ...	33·6	-4	NE	4	Z_o	40	85	37	6	5	-	-	10	10	1100
	Scilly (St. Mary's)	34·6	-4	ENE	3	c	42	85	39	6	5	-	-	10	10	800
	Guernsey ...															
6	Pembroke ...	35·7	-10	E	3	Z_o	38	85	34	6	5	4	-	2-3	4-6	2500
7	Holyhead (Valley)	36·0	-6	ENE	1	Z_o	36	85	33	5	-	-	-	0	0	-
	Chester (Sealand)	37·2	-10	SE'S	2	Z_o	36	65	28	5	5	-	-	10	10	3000
8	Manchester ...	37·8	-12	-	0	bf	32	85	29	3	-	-	-	0	0	-
10	Spurn Head ...	37·0	-10	E	3	c	42	75	34	8	7	-	-	9	9	2500
	Catterick (Sc) ...	38·4	-6	S	2	c-bc/f	35	75	29	7	5	3	-	4-6	7-8	3000
	Tynemouth ...	37·7	-14	SSW	2	bf	38	75	31	3	-	3	-	0	2-3	-
11	St. Abbs Head	35·9	-16	SW	2	b-bc	35	85	31	7	4	4	5	2-3	2-3	4500
	Leuchars ...	35·5	-20	WSW	3	m	33	85	30	4	5	-	-	Tr	4-6	3000
12	Renfrew (Abbotsl.)	36·0	-14	ESE	1	b-bc/f	36	85	31	3	5	-	-	2-3	2-3	5000
	Eskdalemuir ...	37·2	-8	-	0	b-bc	28	85	25	6	-	-	3	2-3	2-3	-
	Point of Ayre ...	36·2	-4	S	4	c-bc	42	85	36	7	5	-	-	7-8	7-8	1000
13A	Tiree	32·7	-12	SW	5	c	43	75	36	7	5	-	-	9+	9+	2000
13B	Stornoway ...	28·8	-18	SSW	7	c	44	75	38	7	5	-	-	9+	9+	900
15	Dalwhinnie ...	34·5	-8	SSW	4	bc	36	75	29	6	8	-	9	1	4-6	2000
	Aberdeen ...	34·2	-20	SSW	3	Z_o	38	75	30	5	-	-	2	0	7-8	-
	Wick ...	31·5	-14	-	0	b	36	75	30	8	-	-	1	0	Tr	-
16	Sumburgh ...	31·6	-10	SW'S	3	c	44	75	36	8	5	7	-	9+	10	3000
17	Blacksod Point	29·8	-6	S'E	6	c-bc	46	75	39	7	8	-	-	7-8	7-8	2500
18	Malin Head ...	32·3	-14	S	3	bc	40	75	33	8	5	-	-	4-6	4-6	2500
	Aldergrove ...	32·9	-18	SSE	1	Z_o	40	85	35	6	5	3	-	Tr	2-3	2000
19	Birr Castle ...	33·6	-12	SSE	2	c	40	85	36	8	5	-	-	9	9	2500
20	Valentia Obsy.	31·5	-12	SSE	3	c	46	75	39	8	5	-	-	7-8	9+	2500
	Roches Point	33·8	-10	SSE	4	c	45	85	41	7	5	-	-	9	9	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 0–12 Force. (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)
34·4	-20	NE	3	m	38	85	33	4	-	-	-	0	0	-	1	*
34·3	-7	NE	1	bf+	36	85	32	2	-	-	-	0	0	-	1	*
34·2	-2	N	2	m	36	92	34	4	-	-	-	0	0	-	1	*
34·3	+2	NE'N	2	Z_o	32	92	30	6	-	-	-	0	0	-	0	*
33·3	+2	NE'E	3	Z_o	36	85	33	5	-	-	-	0	0	-	1	*
34·1	+6	ENE	4	m	35	86	32	4	5	-	-	4-6	4-6	1000	0	4
33·6	-2	E	3	Z_o	36	92	34	6	5	-	1	1	2-3	2000	1	*
34·7	0	ENE	3	Z_o	34	85	31	6	-	-	-	0	0	-	1	*
34·5	-6	NNE	3	Z_o	35	85	31	6	-	-	-	0	0	-	0	3
34·7	-6	E'N	4	bc	41	75	33	7	5	-	-	4-6	4-6	2500	0	4
34·9	-10	ENE	2	b	31	97	31	6	-	4	-	0	1	8000	0	*
34·9	-6	NE	3	Z_o	36	85	33	6	-	4	-	0	2-3	-	0	*
35·2	-2	ENE	2	Z_o	37	85	33	6	-	-	-	0	0	-	0	3
35·2	-2	-	0	bf	32	92	30	2	-	-	-	0	0	-	1	*
33·1	+4	NE	3	c-bc	38	85	35	7	5	-	-	7-8	7-8	4500	1	2
34·0	0	NW	1	z	33	97	32	4	5	-	-	1	1	2500	0	1
32·9	-2	NE	4	m	35	85	32	4	5	-	-	10	10	1000	1	4
33·3	-2	E'N	3	Z_o	42	75	36	6	5	-	-	10	10	800	1	3
34·4	-4	E	3	Z_o	37	85	33	6	5	-	-	2-3	2-3	2000	3	2
34·8	-4	E	1	m	30	97	29	4	-	-	-	0	0	-	3	1
35·7	-6	SE	2	m	34	85	29	4	5	-	-	2-3	2-3	3000	0	*
36·5	-6	SSE	2	bf	31	92	29	3	-	-	-	0	0	-	1	*
36·4	-4	SE	3	bc	40	75	34	7	7	-	-	4-6	4-6	2500	0	2
36·7	-6	S	3	bf	30	97	30	3	-	-	-	0	0	-	3	*
35·1	-6	SSW	3	m	34	86	31	4	-	-	-	0	0	-	0	2
34·1	-2	-	0	Z_o	36	97	36	6	4	-	-	4-6	4-6	1000	3	2
34·2	-6	WSW	2	bcf+	29	97	28	3	-	-	8	4-6	4-6	-	3	*
34·8	-2	-	0	bcf+	26	97	26	2	5	-	-	4-6	4-6	4000	3	*
35·8	-2	-	0	b-bc	23	85	20	5	6	3	-	2-3	2-3	2500	3	*
34·2	0	S'W	6	b	40	75	35	7	5	-	-	Tr	Tr	2000	0	4
29·9	-14	S	6	b-bc	44	85	39	7	2	-	-	2-3	2-3	2000	0	5
27·3	-10	SSW	4	Z_o	44	75	37	6	5	-	-	7-8	7-8	2200	0	3
31·0	-6	WSW	2	b	33	85	28	6	-	-	-	0	0	-	3	*
31·9	-10	SSW	3	bcf	35	75	29	3	-	-	2	0	4-6	-	3	2
30·5	-6	S	1	m	33	85	30	4	-	-	-	0	0	-	3	*
30·0	-12	SSW	3	c	43	75	37	7	5	2	-	9	10	2300	1	2
27·4	-16	SSE	6	bc	46	85	42	7	8	-	-	4-6	4-6	2500	0	5
28·6	-26	SSE	4	b	37	75	30	7	5	-	-	1	1	4500	6	3
33·8	0	S	1	Z_o	32	92	30	5	5	-	-	1	1	8000	3	*
31·9	-4	SSE	2	c	41	85	37	7	5	-	-	10	10	2500	1	*
30·9	-2	S'E	5	bc	44	75	37	8	5	-	-	4-6	4-6	3000	1	5
32·9	-4	S	4	c	44	92	42	8	5	-	-	10	10	1500	1	4

PAST 24 HOURS. WEATHER.

7h.–13h. 13th ... (39)	13h.–18h. 13th ... (40)	18h. 13th ... to 1h. 14th (41)	1h.–7h. 14th. (42)
cbcm	$bz_o bm$	bmx	bfx
ebcf	bcf bzbf	bfcxc	ofcx
$cm_o bcm$	$bcbz\,m_o m$	$bmbfx bcf$	bccof
$cm_o bm_o$	bm_o	$bm_o bm_x bcm$	$bcf\,of\,z$
$cm_o bm$	$bmm_o o$	$bmxcmx$	$bcm_o x bm_x$
bcm_o	$bccm_o$	$bcmcmx$	cmx
$cm_o c$	$cm_o bcb$	$bcm_o z_o x$	$bccm_o x$
$cm_o bcm_o$	$bcm_o b$	$bm_o x$	$bcm_o x$
$cm_o bcb$	$bz_o m_o$	$bcm_o bz_o$	$bz_o bcm_o x$
c	bc	c	c
c	$bcm_o bm_o$	$bcm_o x$	$bcm_o x$
c	$cbcm_o bm_o$	bcm_o	$bcm_o bf$
fcz	czbf	bffx	fx
$bm_o x bcm_o$	$bcm_o bm_o x$	$bcm_o fx$	bffx
$cm_o c$	cbcb	bmxf	bfx F
$cbcz_o$	bcbmo	bm_o	bm_o
cm_o	$cm_o bmbf$	bfx bcfx bfx	bfx ofx
oc	ec	bcc	co
$cm_o bcm_o$	$bcm_o bm_o x$	bfx bm	$bm_o cbm_o x$
cz_o	$cz_o m$	$cc z_o$	bccm
c	c	c	cbc
bcm	bc	bcm	bcm
cfxc	cbcbcmbcf	cfx	ofx bfx
bff	bffm	bafff	bffm
bc	bcm	bcm	bm_o
bfxcmxcmx	bcfx	bcfcf	cfx bfx cfx
cffx	bcfx	bccfx	cbcfx
bbcx	bbcx	bcx	bccx
bc	cb	bx	cff
c	cbcc	bcc	$cd_o d_o$
c	ccm_o	$cc i_o m_o$	$cd_o d_o r_o bc$
bc	bc	-	bc
bfpxbccz	czbcfx	bcfmx	bcnfx
bcb	$bm_o bn$	bfbm	bnc
c	e	abcb	$bci r_o$
bc	bc	r	bc
c	be	bc	r
$cm_o bm_o$	$bcbm_o$	$cmxcm$	$m_o id_o cm_o$
a	c	-	c
c	bc	c	d
e	c	c	c

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

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	Light variable winds; fog persisting in many places today, becoming very extensive tonight, little tendency to clear tomorrow; cold with frost in most places at night, persisting locally throughout period.
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 southwest or west winds; mainly fair with considerable bright periods, but some local drizzle or light rain at first; local fog night and morning in south; mainly rather cold.
16 Orkneys and Shetlands	As 11-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light variable winds; cloudy with local drizzle or light rain at first, some bright periods later, local fog developing tonight; mainly rather cold.

GENERAL INFERENCE

An anticyclone covers the British Isles. There will be some local drizzle or light rain at first in Scotland and Ireland. Otherwise weather will be dry over the British Isles, but fog will persist in many parts of England and Wales today and will become very extensive tonight with little tendency to clear tomorrow. In England and Wales it will be cold with some frost in most places. In Scotland and Ireland it will be mainly rather cold.

FURTHER OUTLOOK

Little Change.

Forecasts issued at 10·30

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

7h. Tuesday 14th December 1943.

LOW

HIGH

LOW

1018 1020 1022 1024 1026 1028 1030 1032 1034 1036

10° 5°W. 0° 5° E.

60° 55° 50°

Mb.

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

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

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

Scale 1.: 5,000,000

Fr. 524.4582 Wt. 8051/8 x545 6m 5/48/2 7440 12/43

M.O. Press HQ. Dunstable

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

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

Morning of

Tuesday 14th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with 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.

Tuesday 14th December 1943 — No. 29972

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon ...	290	34·6	-2	NE	1	cf	33	97	33	3	5	-	-	9+	9+	1000
	S. Farnborough	226	34·8	+2	-	0	bf-	29	92	27	3	5	-	-	4-6	4-6	1400
	Boscombe Down	417	34·6	+2	N'E	3	bcf+	29	97	29	3	-	-	6	0	4-6	-
	Thorney Island	10	33·7	+2	NE'N	3	m	31	92	29	4	5	-	-	10	10	2000
	Lympne ..	341	34·2	+2	E'S	3	z_o	29	92	28	5	5	-	1	2-3	2-3	800
	Manston ...	154	33·9	-4	E'S	2	z_o	33	92	30	4	-	-	8	0	2-3	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	35·1	0	ENE	2	z_o	39	75	33	6	-	-	-	0	0	-
	Gorleston ...	5	34·9	-6	SE'E	3	bc	41	85	36	7	5	3	-	4-6	4-6	2000
	Mildenhall ...	15	35·2	+2	NE'N	2	m	24	97	24	4	-	4	2	0	4-6	-
	Cranwell ...	203	36·1	-4	NNW	1	z_o	32	97	32	5	-	-	8	0	4-6	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	35·4	0	-	0	bf	27	97	27	3	-	-	1	0	1	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	33·4	-4	E	3	z_o	35	85	30	6	-	-	-	0	0	-
	Bristol ...	209	35·8	+6	NE	1	bf-	28	97	28	2	-	-	-	0	0	-
	Portland Bill ...	32	33·3	+2	NE	4	c-bc	37	85	32	7	4	-	-	7-8	7-8	5000
	Plymouth ...	86	34·1	0	-	0	m	28	97	28	4	-	-	-	0	0	-
	The Lizard ...	240	33·4	+4	NSW	2	z_o	34	97	33	5	5	1	-	9	10	1500
	Scilly (St. Mary's)	163	34·1	+4	NNE	3	c-bc	38	85	34	6	5	-	-	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	35·9	0	E'N	3	z_o	38	92	31	6	5	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	35·9	+4	E	1	bf	26	97	26	3	-	-	-	0	0	-
	Chester (Sealand)	16	36·1	+6	-	0	bf+	26	97	25	3	-	-	-	0	0	-
8	Manchester ...	230	36·4	+2	-	0	bf	26	97	21	3	-	-	-	0	0	-
10	Spurn Head ...	29	36·4	0	WNW	2	z_o	37	92	35	5	7	4	-	4-6	4-6	4000
	Catterick (Sc.) ...	192	36·0	-4	SSW	3	c-bcf+	28	97	28	3	5	-	-	7-8	7-8	800
	Tynemouth ...	108	35·5	-2	SW	2	bf+	31	97	30	3	-	-	-	0	0	-
11	St. Abbs Head	280	33·9	-2	WNW	2	b	35	75	29	7	-	-	-	0	0	-
	Leuchars ...	31	33·8	+2	WSW	3	cf	30	92	28	2	5	-	-	7-8	9	1500
12	Renfrew (Abbotsl.)	19	34·5	+2	E	1	of	22	85	19	2	5	-	-	10	10	1200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	35·1	+6	SW	1	b	33	97	32	7	5	-	-	1	1	3000
13A	Tiree	44	31·4	+2	S	5	c	44	85	41	7	5	-	-	10	10	2000
13B	Stornoway ...	12	27·3	-4	SSW	7	$d_o d_o$	44	85	41	6	5	-	-	4-6	9+	900
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	31·0	-2	-	0	m	30	92	28	4	-	-	-	0	0	-
	Wick ...	114	28·6	+2	SSW	2	z_o	35	85	32	5	-	-	-	0	0	-
16	Sumburgh ..	15	28·2	-10	S'W	3	b	42	75	36	7	5	-	-	1	1	2500
17	Blacksod Point	18	30·2	+2	S	7	$r_o r_o$	46	97	45	7	6	-	-	10	10	800
18	Malin Head ...	84	31·2	+2	S'W	4	c	41	85	37	6	5	-	-	10	10	1500
	Aldergrove ...	294	35·0	+2	S	3	z_o	37	85	34	5	5	-	-	10	10	1300
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	35·2	+8	SE'S	4	c	45	75	38	7	-	7	-	0	10	-
	Roches Point	22	34·3	0	S'W	2	c	44	97	43	8	5	-	-	9	3	1500

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

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)	35·2	+4	NNE	1	bf	29	97	29	3	-	-	-	0	0	-	3	*
	Croydon ...	35·2	+4	NE	1	F+	32	97	32	1	-	-	-	10	10	<150	1	*
	S. Farnborough	35·3	+6	N'E	2	f	33	97	32	2	-	-	-	10	10	<150	1	*
	Boscombe Down	35·1	+4	NE'E	3	id_o	29	97	29	5	5	-	-	10	10	100	3	*
	Thorney Island	34·4	+4	N	3	z_o	28	92	26	5	5	-	1	1	2-3	2000	1	*
	Lympne ..	34·3	-2	ENE	3	m	31	97	30	4	5	3	1	Tr	7-8	7000	0	3
	Manston ...	34·4	+2	E'N	2	z_o	35	85	30	6	-	3	-	0	10	-	1	*
2	Shoeburyness ...	35·3	0	N'E	2	z_o	30	92	28	6	-	7	-	2-3	2-3	8000	3	*
	Felixstowe ...	35·6	+6	ENE	3	z_o	38	75	33	6	5	-	-	4-6	4-6	2000	0	3
	Gorleston ...	35·3	+6	NE	1	c	40	75	32	7	8	-	-	10	10	1500	0	3
	Mildenhall ...	35·9	-2	NE'N	2	b-bcF+	21	97	21	1	-	-	2	0	2-3	-	3	*
	Cranwell ...	36·1	+4	-	0	bf-	25	97	25	2	-	-	-	0	0	-	0	*
3	Birmingham ...	36·0	-4	NNW	1	F	27	85	22	0	-	-	-	10	10	<150	1	*
	Upper Heyford	35·8	0	-	0	bf-	23	97	23	3	-	-	5	0	1	-	3	*
4	Ross-on-Wye	35·7	0	NE	1	of	29	97	29	1	5	-	-	10	10	<150	3	*
5	Hartland Point	32·7	0	NE	3	z_o	35	92	33	6	-	-	-	0	0	-	0	3
	Bristol ...	35·9	0	NE'N	1	F	28	97	28	1	-	-	-	10	10	<150	3	*
	Portland Bill ...	33·6	+6	NE	4	o	33	75	27	7	5	-	-	10	10	2500	1	4
	Plymouth ...	34·2	-2	-	0	m	25	97	25	4	-	-	-	0	0	-	0	1
	The Lizard ...	32·7	-8	NNE	3	m	35	85	32	4	5	-	-	4-6	4-6	1500	1	4
	Scilly (St. Mary's)	32·9	-6	NE'N	4	bc	43	85	38	7	5	-	-	4-6	4-6	1500	1	3
6	Pembroke ...	35·8	+6	NE'E	3	z_o	32	85	29	6	5	-	-	2-3	2-3	2000	3	2
7	Holyhead (Valley)	36·2	+6	ENE	2	N/f	26	97	25	4	5	3	-	4-6	7-8	3000	3	1
	Chester (Sealand)	36·1	0	SE	1	of	30	97	29	3	5	-	-	10	10	2000	3	*
8	Manchester ...	36·0	-8	-	0	oF+	30	97	29	3	5	-	-	10	10	3000	3	*
10	Spurn Head ...	35·8	-6	W'S	2	z_o	36	85	33	6	7	3	-	2-3	4-6	2500	0	2
	Catterick (Sc.) ...	36·6	+2	-	0	bF+	20	97	20	0	-	-	-	0	0	-	3	*
	Tynemouth ...	35·1	-4	W	3	m	30	97	29	4	-	-	-	0	0	-	5	2
11	St. Abbs Head	34·2	0	W	1	z_o	35	65	26	5	5	-	-	1	1	2500	0	1
	Leuchars ...	33·6	+10	WNW	1	c-bcF+	32	97	31	8	-	-	8	0	7-8	-	3	*
12	Renfrew (Abbotsl.)	34·8	+2	-	0	c-bcf	34	97	33	3	5	-	-	7-8	7-8	2500	3	*
	Eskdalemuir ...	36·3	+10	S'E	2	c	32	97	31	6	5	-	-	10	10	1100	3	*
	Point of Ayre ...	35·3	+6	SSW	2	oF+	41	92	39	3	5	-	-	10	10	2500	0	2
13A	Tiree	33·1	+12	SW	3	$d_o d_o$	47	97	46	6	6	2	-	7-8	10	1000	1	2
13B	Stornoway ...	30·0	+20	SW	3	bc	46	85	44	7	8	-	-	4-6	4-6	1800	1	3
15	Dalwhinnie ...	33·0	+6	NNW	1	o	35	85	32	6	5	-	-	10	10	2000	3	*
	Aberdeen † ...	32·0	+6	NW	1	bcf-	26	85	22	3	-	-	2	0	4-6	-	3	2
	Wick ...	30·3	+8	SW	3	c	39	75	33	8	5	-	-	7-8	9+	2000	1	*
16	Sumburgh ..	28·5	+2	SW	4	$i r_o$	47	75	41	6	5	-	-	10	10	2000	1	2
17	Blacksod Point	34·2	+16	SW	3	bc	47	97	46	7	8	-	-	2-3	4-6	1500	1	3
18	Malin Head ...	33·2	+10	S'E	3	df	41	92	39	2	-	-	-	10	10	<150	0	4
	Aldergrove ...	35·4	+6	S'E	2	o/d	36	92	34	6	5	-	-	10	10	2000	1	*
19	Birr Castle ...	35·3	+10	SE	1	c	33	85	29	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	34·9	+10	NE'E	1	c/d	44	92	42	7	5	7	-	4-6	10	2500	1	2
	Roches Point	35·3	+4	NE	2	b	40	92	38	8	5	-	-	1	1	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 13th Hrs. (38)
1	London (Kew)	41	28	15	-	Tr	0·0
	Croydon ...	41	31	22	-	Tr	1·5
	S. Farnborough	42	26	16	-	-	2·9
	Boscombe Down	40	27	27	-	-	3·4
	Thorney Island	41	27	28	-	-	*
	Lympne ..	39	28	*	-	-	*
	Manston ...	40	32	28	-	-	5·5
2	Shoeburyness ...	43	27	22	-	-	4·8
	Felixstowe ...	43	36	30	-	-	6·1
	Gorleston ...	43	40	36	-	-	4·6
	Mildenhall ...	42	21	20	-	-	4·2
	Cranwell ...	40	24	13	-	-	0·0
3	Birmingham ...	39	27	13	-	-	0·0
	Upper Heyford	41	23	21	-	-	
4	Ross-on-Wye	39	23	16	-	-	1·0
5	Hartland Point	37	32	*	-	-	5·2
	Bristol ...	39	27	19	-	Tr	1·5
	Portland Bill ...	39	30	*	-	-	*
	Plymouth ...	39	25	13	-	-	2·8
	The Lizard ...	41	33	*	-	-	0·0
	Scilly (St. Mary's)	42	38	*	*	-	0·0
	Guernsey ...						
6	Pembroke ...	39	29	*	-	-	3·8
7	Holyhead (Valley)	42	25	17	-	-	*
	Chester (Sealand)	36	26	15	-	-	0·0
8	Manchester ...	33	21	11	-	-	*
10	Spurn Head ...	42	34	*	-	-	0·0
	Catterick (Sc.) ...	37	20	15	-	-	1·1
	Tynemouth ...	38	27	25	-	-	*
11	St. Abbs Head	37	29	*	-	-	*
	Leuchars ...	34	26	20	-	-	0·0
12	Renfrew (Abbotsl.)	37	22	14	-	-	0·0
	Eskdalemuir ...	32	22	16	-	-	3·6
	Point of Ayre ...	43	32	*	-	-	0·6
13A	Tiree	45	41	38	-	0·2	0·9
13B	Stornoway ...	45	43	41	-	0·3	0·0
15	Dalwhinnie ...	37	31	21	-	-	2·8
	Aberdeen † ...	39	23	13	-	-	0·3
	Wick ...	38	31	19	-	-	*
16	Sumburgh ..	43	41	37	-	Tr	0·0
17	Blacksod Point	47	45	*	-	0·6	*
18	Malin Head ...	41	36		-	1	3·8
	Aldergrove ...	42	30	21	-	0·1	4·3
19	Birr Castle ...	41	30	24	-	-	2·0
20	Valentia Obsy.	47	43	38	-	Tr	0·6
	Roches Point	46	40	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 13th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 14th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	00	05590	20125	00	05590	19213	5-	05654	17314	57	05646	18227
115	52	02744	20427	5A	02744	20226	57	02744	20427			
203												
206	00	05593	00013	00	05590	00010	00	05690	24200	53	05655	22216
210	00	05690	15213	03	05590	00011	00	05590	00000	5-	02767	20307
219	3-	02758	16528	50	01754	16624				10	01761	20421
230	5-	05657	16127	00	05600	28220	5-	05657	00027	5-	21558	00058
245	00	05590	24112	00	08490	00002	00	05590	24200	04	05590	24201
260	0008			00	47		00	45		00	01	
277	5-	05645	10325	5-	08444	12327	5-	08447	18127			
279	04	05590	06124	04	47393	90103	00	43390	00040	5-	08458	12148
285	53	01								53	01	
288	03	05591	19113	04	08491	17313	00	08490	20200	--	48109	25349
575	80	05655	14125	50	05553	14115	57	05664	16226	52	08445	15158
301	00	45390	12140	06	43390	08240	00	43390	10140	00	43390	08140
321	5-	08468	00028	5-	05656	14126	00	47290	24144			
290	5-	02		5-	02		04	01		54	05	
292	5-	05467	00027	5-	45368	00048	00	47390	00040	01	45390	20258
310				60	02							
614	5-	05		50	05		50	05562	01114	00	47090	00010

III	13h. G.M.T. 13th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 14th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	00	01790	02103	00	05590	24110	00	05590	00001	50	05574	24104
334	--	50690	02102	--	05571	10203						
340	5-	05644	08318	50	05551	04121				5-	43238	00048
136	56	01863	04323	00	01790	28202	00	01790	06114	03	04792	08214
336	10	05								--	46203	08249
350	00	05593	06313	00	05590	04210	00	47393	00013	00	45392	00042
368	5-	05655	06326	00	05690	06210	50	08453	06103	00	45390	01840
379	50	05643	02315	00	05590	06100	00	41490	04210	04	41490	04143
390	00	05690	01312	04	05590	04101	00	05590	00000	03	45390	00045
382	10	01751	04314				00	47390	01200			
438	08	05								50	01	
430	00	08					50	08		50	08	
409	5-	05648	00028	5-	05646	00028	00	08590	00000	07	05590	04141

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 Dec.

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 m.
Kew ...	cbcm	bz$_o$bm	bmxbfx	
Croydon	cbcf	bcfbz$_o$bf	bfexcfbx	
Greenwich ...	bmocm$_o$	bcb	bbcxf	Kew 24 hours ended 7h. Max. Time 0·5 9-10h 13th Min. Time 0·2 0-2h 14th
Camden Square	c	c	*	
Kensington ...	bc2bc	bc	*	
Hampstead ...	bc	bcx	bcx	

Stations.	Temperature. Day Max °F	Temperature. Night Min °F	Min on grass °F	Rainfall. Day mm	Rainfall. Night mm	Sunshine to sunset hrs	Humidity. 15h % Yesterday	Humidity. 9h % Today
Kew	41	28	15	-	Tr	0·0	*	*
Croydon ..	41	31	22	-	Tr	1·5	*	*
Greenwich ...	41	28	19	-	-	1·8	68	92
Westminster ..	42	31	25	-			81	92
Regents Park ..	42	30	19	-	-		81	89
Camden Square	42	30	21	-	-	*	*	93
Kensington ..	41	29	19	-	-		81	90
Hampstead ...	39	29	24	-	-		*	98

SECRET

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

BRITISH SECTION

Wednesday 15th December 1943 No. 29973

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

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)	35·7	−2	E	2	m/f	37	85	32	4	5	1	-	7-8	10	2800
	Croydon ...	35·7	−8	E	2	Z_o	37	85	32	5	5	7	-	7-8	10	3000
	S. Farnborough	36·1	−2	N	1	cf	35	85	32	2	5	-	-	4-6	10	600
	Boscombe Down	35·5	−2	NNE	1	Z_o	34	97	33	5	-	7	-	0	10	8000
	Thorney Island	34·7	−8	NE	4	Z_o	36	85	31	5	-	3	-	10	10	7500
	Lympne ...	35·2	−10	E'N	3	c	38	75	32	7	5	7	-	7-8	10	1200
	Manston ...	35·2	−8	E	3	Z_o	40	75	38	7	5	-	-	9+	9+	2100
2	Shoeburyness ...	36·6	−8	E'S	3	c	40	85	35	8	5	-	-	10	10	2500
	Felixstowe ...	35·4	−4	-	0	Z_o	41	75	35	6	5	-	-	10	10	2000
	Gorleston ...	35·9	−4	N'W	2	c	40	75	34	7	5	-	-	10	10	1700
	Mildenhall ...	36·8	0	-	0	cf+	31	92	30	3	-	7	7	0	9+	8500
	Cranwell ...	37·6	−12	W	1	c	27	97	26	1	-	-	-	10	10	<150
3	Birmingham ...	37·4	−4	NNW	2	F	30	97	30	1	-	-	-	10	10	<150
	Upper Heyford	36·9	0	NNW	3	F+	27	97	27	1	-	-	-	10	10	<150
4	Ross-on-Wye	37·3	0	N	2	cF	29	97	26	1	5	-	-	10	10	<150
5	Hartland Point	33·8	−8	NE	3	Z_o	38	85	34	6	1	-	5	Tr	2-3	2500
	Bristol ...	36·9	−7	NE	3	F+	28	97	28	1	-	-	-	10	10	<150
	Portland Bill ...	33·8	−4	NE	4	c	36	75	30	7	5	-	-	10	10	4500
	Plymouth ...	34·0	−6	ESE	1	m	35	85	32	4	-	-	2	0	1	-
	The Lizard ...	33·1	0	NNE	3	Z_o	43	85	38	5	2	6	-	2-3	4-6	2500
	Scilly (St. Mary's)	33·5	+2	NE	5	c-bc	46	75	39	6	2	-	-	7-8	7-8	1200
	Guernsey ...															
6	Pembroke ...	35·7	−14	ENE	2	Z_o	40	85	35	6	-	1	5	0	4-6	-
7	Holyhead (Valley)	36·8	+2	NNE	1	Z_o	41	85	37	5	-	3	5	0	4-6	8000
	Chester (Sealand)	36·7	−14	-	0	bf	35	75	27	3	-	-	-	0	0	-
8	Manchester ...	37·3	−10	-	0	cf	30	92	28	3	5	-	-	10	10	2500
10	Spurn Head ...	37·0	+2	W	2	F+	31	97	31	0	-	-	-	10	10	<150
	Catterick (Sc.) ...	36·4	−20	WSW	1	m/f	29	97	29	4	-	-	8	0	4-6	-
	Tynemouth ...	35·8	−4	W	3	m	39	85	34	4	-	3	2	2-3	2-3	-
11	St. Abbs Head	34·6	0	W	3	bc	44	75	37	7	4	4	8	2-3	4-6	-
	Leuchars ...	34·4	−10	SW	3	Z_o	38	92	36	5	-	3	-	Tr	Tr	8500
12	Renfrew (Abbotsl.)	37·3	+8	S	2	m	38	92	37	4	5	-	-	10	10	<150
	Eskdalemuir ...	37·2	−4	S	1	F+	33	92	31	1	5	-	-	10	10	1500
	Point of Ayre ...	36·9	0	SWS	1	c	43	75	38	7	5	-	-	10	10	3500
13A	Tiree	36·0	+14	SW	3	b-bc	49	97	49	7	1	-	-	2-3	2-3	2000
13B	Stornoway ...	33·2	+2	SW	4	Z_o	47	85	43	7	1	-	5	Tr	1	2500
15	Dalwhinnie ...	35·0	+6	N	1	c	38	65	27	6	5	-	-	9+	9+	2000
	Aberdeen ...	34·6	+8	NNE	1	Z_o	41	75	34	6	5	-	2	Tr	2-3	2500
	Wick ...	33·2	+10	WSW	2	b	43	85	40	8	-	4	-	0	Tr	-
16	Sumburgh ...	30·1	+10	WSW	4	bc	49	92	47	7	2	-	-	4-6	4-6	1200
17	Blacksod Point	37·0	+10	S	2	c	49	92	47	7	8	-	-	9+	9+	1500
18	Malin Head ...	36·0	+12	SWN	1	c-bc	47	92	46	7	5	5	-	2-3	7-8	800
	Aldergrove ...	37·1	+2	-	0	Z_o	40	92	38	6	5	-	-	10	10	800
19	Birr Castle ...	36·3	+2	SW	1	c	43	85	39	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	35·9	−2	SWN	1	c	47	85	43	8	5	-	-	9+	9+	2600
	Roches Point	36·1	−8	N	2	bc	45	85	41	7	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 14A DECEMBER

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)
36·1	0	NE	2	cf	36	85	33	3	5	-	-	10	10	2500	1	*
36·0	0	E	1	cf+	37	85	34	1	5	-	-	10	10	2000	0	*
35·9	−4	NNW	1	cf	35	92	33	3	5	-	-	9	9	1400	1	*
36·1	+4	ENE	2	m	33	92	31	4	5	-	-	10	10	1300	0	*
35·3	+4	NNE	3	Z_o	37	75	31	5	5	-	-	9+	9+	2200	1	*
35·4	0	NE	1	Z_o	37	85	34	6	5	-	-	10	10	2400	1	§
35·3	+2	E'S	2	Z_o	41	85	36	6	5	-	-	9+	10	2600	1	*
36·4	+2	N	3	Z_o	36	92	33	6	5	-	-	9	9	2500	1	*
35·8	−2	N'W	3	Z_o	37	85	32	6	5	-	-	9+	9+	3000	0	3
36·3	+2	NNW	2	Z_o	39	75	31	5	5	-	-	10	10	700	0	1
36·8	−2	-	0	cf	31	65	21	2	5	-	-	10	10	1900	3	*
37·2	+4	W	2	F	26	97	26	0	-	-	-	10	10	<150	3	*
37·4	0	-	0	F	28	92	26	1	-	-	-	10	10	<150	1	*
36·7	−6	N	1	c-bcf	28	97	25	2	5	-	-	7-8	7-8	1600	3	*
37·1	+4	NNE	2	cf	29	97	28	2	5	-	-	10	10	200	3	*
38·6	0	NE	3	bc	38	65	26	7	-	4	-	0	4-6	-	0	3
36·8	+2	E	2	cf	31	97	31	2	5	-	-	10	10	300	3	*
34·0	+6	NE	4	c-bc	35	75	29	7	5	-	-	7-8	7-8	1800	1	4
33·8	−2	ESE	1	b-bcf	36	75	28	2	-	-	2	0	2-3	-	3	1
32·3	−6	E	5	m	40	92	38	4	5	-	-	4-6	4-6	1500	1	4
32·9	0	E'N	4	Z_o	41	85	37	6	5	-	-	2-3	2-3	1500	1	3
35·4	−2	E'S	3	Z_o	36	85	32	6	5	4	-	2-3	4-6	2500	3	
36·7	−2	NE'E	2	Z_o	39	85	36	6	5	-	-	10	10	400	1	*
36·9	0	-	0	cf-	33	92	31	2	5	-	-	10	10	<150	3	*
37·5	+2	E	1	F	30	97	30	1	-	-	-	10	10	<150	0	1
37·0	+8	WNW	2	F	29	97	29	0	-	-	-	10	10	<150	3	*
37·4	+2	SSE	1	f+	25	97	25	2	-	-	-	10	10	<150	3	*
36·8	0	W	3	m	38	85	35	4	-	-	-	0	0	-	1	3
35·8	+6	W	3	bc	43	85	38	7	5	-	-	4-6	4-6	4000	0	3
36·3	+4	NNW	2	m	36	92	34	4	-	-	-	0	0	-	1	*
37·2	−2	W	1	m	36	92	35	4	6	2	-	4-6	10	1000	1	*
37·5	0	-	0	cf+	31	97	31	1	5	-	-	7-8	7-8	400	3	*
36·8	0	E	2	0	43	92	41	7	5	-	-	0	0	-	3	*
36·9	+8	SW	1	c-bc	45	97	45	7	5	-	-	7-8	7-8	1500	1	1
35·1	+14	SW	2	Z_o	42	97	41	7	5	-	5	1	4-6	1800	1	2
37·0	+8	SSE	2	c	32	97	32	6	5	-	-	3	3	2000	0	*
36·2	+12	W's	2	bf+	38	92	35	3	5	-	-	Tr	Tr	2500	3	2
35·0	+18	SW	1	b	37	85	34	7	-	-	-	0	0	-	3	*
32·1	+10	W's	6	b	49	85	45	7	5	-	-	Tr	Tr	1800	1	3
36·6	−2	-	0	b	41	97	40	7	-	-	-	0	0	-	1	1
36·3	+4	SSW	1	c	43	92	41	6	8	-	-	9	9	2500	0	2
37·6	+2	-	0	m	40	65	29	4	5	-	-	10	10	2400	1	*
36·2	0	ESE	1	c	41	92	39	7	5	-	-	10	10	2500	1	*
35·8	+2	E'N	2	c	48	85	44	8	5	-	-	10	10	2100	0	1
36·0	+2	ENE	1	Z_o	38	97	38	6	5	-	-	1	2-3	2500	1	3

PAST 24 HOURS. WEATHER.

7h.–13h. 14th (39)	13h.–18h. 14th (40)	18h. 14th to 1h. 15th (41)	1h.–7h. 15th (42)
bFfcm	cmoff	bFFcx	ccmo
oFxcmo	cmocmcf	cF	cidof
cf	cfmf	cfcm	cmiSoro
cmxcmo	cmocm	cmcmo	cmiSo
bcmo	bcmocmo	cmcf	cmcmodcmo
bccmxmo	C	cmodo	cmoidzo
cmo	ccmo	cmozoc	cczo
bcmoxc	ccmo	cmo	cmo
c	czcmo	cmo	cmo
c	cmozo	czc	c
bFcf	cf	cfofcmbnfcf cm	
fF	F	F	cf
F	fF	FF	FFx
bcmcfofx	oFx	oFFx	cffxbffx
Fof	off	off	cff
bcmo	bcmo	bccbc	bccbc
oFx	oFofx	fxofxofx	cfx
cc	cc	tc	c
bfxcmx	bcmxcf	cmox	czo
cbcmo	bcm	bccmo	c
cb	bc	bcc	c
bcmo	bcmox	bccmx	cbcmox
cbcmox	bccmo	bmgcm	cmgbcmo
cbff	bffo	cff	cff
cfmf	ofFx	oFF	ofcf
f	F	f	of
bFb	bcf	cm	ofoFF
bcm	bcbm	bcmomo	amom
bmbcmo	bcmobc	bcF	bcmoF
cfofmmo	bmobm	bmgfx	bfx
cmom	cm	cmf	cfof
fx	fx	fbcif	bcif
c	co	cmo	c
c	bcbcfqbc	bcfbcngw	bcnywcw
bcbmo	bcmo	bmwbx	bxbcbc
oc	c		cp
bcfxbczx	bcbczbfx	bfx	bfx
bbcxb	bbcb	bcb	b
crobc	bc	bbcb	bbcbbc
c	b	c	c
d	bc	b	c
cmomomcmcmocmcmcmcmo			cmo
c	c		c
e	c	bc	bc
bc	bc	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 15th December, 1943.

Districts	
1 S.E. England 2 E. England ...	Light northeast or east wind; mainly dull; rather cold.
3 E. Midlands ... 4 W. Midlands	Light variable winds; rather extensive and persistent fog; cold.
5 S.W. England	Light or moderate east wind; mainly cloudy, some local rain later; cold.
6 South Wales 7 North Wales	Light variable winds; foggy in east, fair elsewhere; cold.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	As 3-4.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate southwest winds, fresh to strong on northwest seaboard; mainly cloudy, but some bright periods in east; local rain or drizzle; rather cold.
16 Orkneys and Shetlands	As 13A-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light or moderate south or southeast winds; mainly cloudy, some local rain in northwest; rather cold.

GENERAL INFERENCE

An anticyclone centred off Northeast England is declining and moving slowly eastwards. Some local rain will occur on the northeast seaboard, and later in Southwest England. Elsewhere it will be dry, but mainly dull with a large area of persistent fog over the Midlands, North England and South Scotland. It will be cold or rather cold.

FURTHER OUTLOOK

Little Change.

Forecasts issued at 10.30

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

7h. Wednesday 15th December. 1943.

LOW

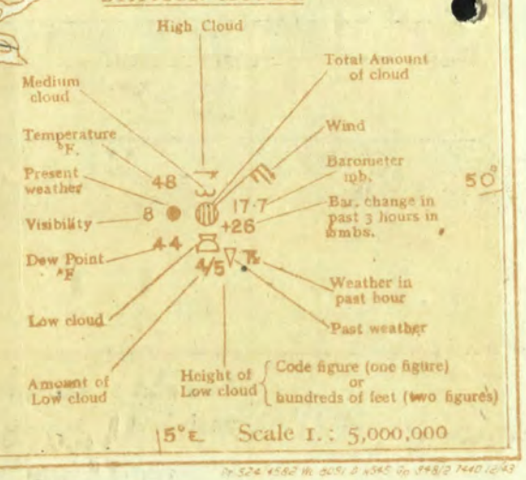
1014 1016 1018 1020 1022 1024 1026 1028 1030 1032 1034 1036

HIGH

60° 55° 50° 10° 5° W. 0° 5° E 10°

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

STATION MODEL



Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 15th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Wednesday 15th December 1943 — No. 29973

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

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	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon ...	290	36·4	+6	E	1	df	36	85	31	2	5	–	–	10	10	2000
	S. Farnborough	226	36·4	-6	N'W	2	m	34	85	30	4	5	–	–	10	10	2200
	Boscombe Down	417	35·0	-6	NNE	2	z_o	32	92	30	5	5	–	–	9+	9+	2500
	Thorney Island	10	34·2	-6	NNE	4	of+	37	85	33	3	5	–	–	10	10	2000
	Lympne ...	341	34·6	-6	E	3	c/d	33	85	34	6	5	–	–	9	9	2500
	Manston ...	154	34·3	-6	E'S	2	c	42	75	35	7	5	–	–	9+	9+	3300
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	35·6	+2	N	3	z_o	38	85	32	6	5	–	–	9+	9+	4000
	Gorleston ...	5	36·0	+2	NNE	3	c	40	85	36	7	5	–	–	9+	9+	1000
	Mildenhall ...	15	36·8	+2	N	2	cf–	31	97	31	2	5	–	–	9+	9+	3000
	Cranwell ...	203	37·6	0	W	1	F–	28	97	28	1	–	–	–	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	36·5	-6	N	2	cf–	27	97	27	2	–	3	–	0	3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	33·4	-2	E	4	bc	34	92	31	7	5	6	–	4-6	4-6	1500
	Bristol ...	209	36·5	-2	NE'N	2	cf–	30	97	30	2	5	–	–	9+	9+	300
	Portland Bill ...	32	33·7	-4	NE	4	c	37	85	32	7	8	–	–	10	10	4500
	Plymouth ...	86	33·4	-6	ENE	4	z_o	37	78	31	6	5	3	–	4-6	10	1500
	The Lizard ...	240	31·4	-10	ENE	5	z_o	42	92	40	5	5	(	–	9	10	1200
	Scilly (St. Mary's)	163	32·1	-6	E	4	z_o	44	85	41	6	5	–	–	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	35·8	+2	E	4	z_o	33	97	33	6	5	–	–	10	10	2000
7	Holyhead (Valley)	32	36·0	-6	ENE	2	m	35	97	34	4	–	4	–	0	1	–
	Chester (Sealand)	16	37·0	-2	SE'S	1	of	30	97	30	2	5	–	–	10	10	5500
8	Manchester ...	230	37·7	-4	–	0	F	27	97	27	0	–	–	–	10	10	<150
10	Spurn Head ...	29	37·1	+2	WNW	3	cf	32	92	30	5	7	–	–	9+	9+	1500
	Catterick (Sc.) ...	192	37·9	+2	WNW	1	m	35	97	35	4	5	–	–	10	10	1100
	Tynemouth ...	108	37·2	0	W	3	z_o	41	92	39	5	5	–	–	10	10	1500
11	St. Abbs Head	280	37·2	0	WNW	2	F	38	97	38	0	–	–	–	10	10	<150
	Leuchars ...	31	38·2	+4	WSW	1	bf+	31	97	31	2	–	–	–	0	0	–
12	Renfrew (Abbotsl.)	19	38·0	-2	–	0	of	38	97	37	3	5	–	–	10	10	1000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	37·0	0	SE'S	3	c	43	92	41	7	5	–	–	10	10	2500
13A	Tiree	44	37·1	+2	S	1	z_o	45	97	44	6	2	–	–	2-3	2-3	2000
13B	Stornoway ...	12	35·0	-6	SSW	3	b	38	97	37	7	2	–	–	1	1	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	38·0	0	–	0	b	28	92	26	7	–	–	1	0	Tr	–
	Wick ...	114	36·4	+6	SW	1	b	37	97	36	8	–	–	5	0	1	–
16	Sumburgh ..	15	34·1	+6	W'S	4	b-bc	43	75	43	8	1	–	–	2-3	2-3	2500
17	Blacksod Point	18	35·7	-10	SE'S	2	c	42	97	41	7	5	–	–	10	10	2500
18	Malin Head ...	84	36·6	-2	S	1	c-bc	39	92	37	8	5	–	–	7-8	7-8	2500
	Aldergrove ...	294	37·4	-6	–	0	z_o	43	92	40	5	5	–	–	10	10	1400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	34·3	-4	–	0	b	36	92	34	8	5	–	–	1	1	3200
	Roches Point	22	34·8	-10	E'N	3	c	41	92	39	7	5	–	–	9	9	1500

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

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)	33·8	-10	NE'N	2	z_{op}	36	85	31	5	5	–	–	10	10	3500	1	*
Croydon ...	34·0	-12	E	2	df	36	85	33	2	5	–	–	10	10	1500	1	*
S. Farnborough	33·6	-10	N'E	2	r_{ro}	34	92	32	4	5	7	–	9+	10	2500	1	*
Boscombe Down	33·1	+6	NE	2	c/s	31	97	30	5	5	–	–	9+	9+	1500	4	*
Thorney Island	32·2	-10	NNE	4	z_o	37	85	33	6	5	7	–	4-6	10	1500	1	*
Lympne ...	33·1	-6	ENE	4	z_o	40	75	33	6	5	–	–	9	9	2500	1	4
Manston ...	32·9	-10	E'S	4	z_o	42	75	34	6	5	–	–	9+	9+	3200	1	*
Shoeburyness ...	33·6	-12	NNE	3	z_o	38	92	35	6	5	–	–	10	10	2500	1	*
Felixstowe ...	34·0	-2	N	2	z_o	39	85	34	6	5	–	–	10	10	3000	0	2
Gorleston ...	33·3	-14	NE	4	c	43	75	36	7	5	–	–	10	10	1500	0	4
Mildenhall ...	34·7	-10	N'E	2	m	34	97	33	4	5	–	–	10	10	3500	0	*
Cranwell ...	36·1	-10	–	0	of	29	97	29	2	5	–	–	10	10	1000	0	*
Birmingham ...	35·4	-10	NE	1	F	27	97	26	1	–	–	–	10	10	<150	1	*
Upper Heyford	35·0	-10	N	3	cf–	28	97	28	3	5	–	–	10	10	2800	2	*
Ross-on-Wye	34·8	-10	N'E	2	of	29	85	27	2	5	–	–	10	10	300	3	*
Hartland Point	31·4	-8	E	4	b-bc	36	92	33	7	1	–	–	2-3	2-3	4000	0	3
Bristol ...	34·2	-16	NE	1	of+	31	97	31	3	5	–	–	10	10	500	3	*
Portland Bill ...	30·6	-10	NE	4	c	38	85	32	7	5	–	–	10	10	5000	1	4
Plymouth ...	30·9	-12	ENE	3	z_o	37	85	31	6	5	3	–	2-3	9+	2000	3	2
The Lizard ...	29·2	-6	ENE	5	m	43	85	38	4	5	–	–	9+	9+	1500	0	4
Scilly (St. Mary's)	29·7	-16	ENE	5	z_o	43	85	39	6	5	–	–	10	10	800	1	4
Guernsey ...																	
Pembroke ...	33·4	-4	E'S	4	z_o	34	85	31	6	2	7	–	2-3	4-6	2000	3	2
Holyhead (Valley)	33·9	-10	ENE	2	m	32	85	29	4	–	4	–	0	2-3	–	3	1
Chester (Sealand)	35·2	-10	SSE	1	of	32	92	30	2	5	–	–	10	10	2500	3	*
Manchester ...	35·9	-10	SSW	2	of	27	97	27	2	5	–	–	10	10	1500	1	*
Spurn Head ...	35·9	-12	WNW	3	cf–	35	85	32	5	7	–	–	9+	9+	2500	0	1
Catterick (Sc.) ...	36·2	-2	–	0	f+	37	97	37	1	–	–	–	10	10	<150	0	*
Tynemouth ...	36·1	-12	SW	2	m	44	97	44	4	5	–	–	10	10	1500	1	3
St. Abbs Head	36·0	-12	NE	1	F+	39	97	39	1	–	–	–	10	10	450	1	3
Leuchars ...	36·2	-14	–	0	bf	28	97	28	3	–	–	–	0	0	–	3	*
Renfrew (Abbotsl.)	36·0	-12	NNE	1	of	32	97	32	1	5	–	–	10	10	1000	1	*
Eskdalemuir ...	35·7	-12	–	0	c	37	85	34	6	5	–	–	10	10	1100	3	*
Point of Ayre ...	34·4	-16	ESE	3	c-bc	42	92	41	7	5	–	–	7-8	7-8	2500	0	2
Tiree	33·8	-18	S'E	4	c	45	85	42	7	5	–	–	4-6	10	1500	1	2
Stornoway ...	32·1	-18	S	4	c-bc	45	85	42	7	5	–	–	7-8	7-8	2000	1	3
Dalwhinnie ...	34·0	-14	S	3	b_o	31	92	29	8	8	–	–	1	1	2000	3	*
Aberdeen † ...	35·7	-12	WSW	1	bf	28	92	27	2	5	–	–	7-8	7-8	2500	3	*
Wick ...	33·9	-6	SSW	2	b	37	97	36	7	–	–	–	0	0	–	3	*
Sumburgh ..	33·1	-6	SW'S	4	z_o	47	97	46	6	1	–	–	2-3	2-3	2000	1	2
Blacksod Point	32·0	-14	SE'S	3	c	44	85	40	7	5	–	–	10	10	1500	1	3
Malin Head ...	33·0	-20	S'E	2	c	41	85	37	8	5	–	–	10	10	1500	0	2
Aldergrove ...	34·4	+22	SE	3	z_o	41	85	38	6	5	–	–	10	10	1100	1	*
Birr Castle ...	32·3	-16	SSW	1	c	39	92	37	7	5	2	–	7-8	10	2500	1	*
Valentia Obsy.	31·9	-14	NE	2	b	31	97	30	8	–	–	1	0	1	–	3	1
Roches Point	31·9	-14	E	4	c-bc	43	85	39	7	5	–	–	7-8	7-8	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 18th Hrs. (38)
London (Kew)	38	34	22	–	–	0·0
Croydon ...	38	35	29	–	Tr	0·0
S. Farnborough	36	33	25	–	Tr	0·0
Boscombe Down	35	30	29	–	Tr	0·0
Thorney Island	37	37	30	–	Tr	*
Lympne ...	39	37	35	–	0·1	5·7
Manston ...	41	40	37	*	–	0·0
Shoeburyness ...	40	34	30	–	–	0·0
Felixstowe ...	42	35	32	–	–	0·0
Gorleston ...	41	37	34	–	–	0·0
Mildenhall ...	38	25	16	–	–	0·0
Cranwell ...	27	26	25	–	–	0·0
Birmingham ...	30	26	26	–	–	0·0
Upper Heyford	28	25	23	–	–	
Ross-on-Wye	30	29	28	–	–	0·0
Hartland Point	39	30	29	–	–	4·7
Bristol ...	31	29	29	–	–	0·0
Portland Bill ...	36	34	*	–	–	*
Plymouth ...	37	35	28	–	–	0·3
Guernsey ...	43	40	*	–	–	2·1
The Lizard ...	46	39	*	–	–	6·6
Pembroke ...	41	23	*	–	–	4·2
Holyhead (Valley)	42	31	26	–	–	*
Chester (Sealand)	35	30	25	–	–	1·3
Manchester ...	32	26	25	–	–	*
Spurn Head ...	36	28	*	–	–	0·0
Catterick (Sc.) ...	32	25	21	–	Tr	0·0
Tynemouth ...	39	35	35	–	–	*
St. Abbs Head	44	33	*	–	–	
Leuchars ...	40	27	23	–	–	4·6
Renfrew (Abbotsl.)	40	32	30	Tr	–	0·0
Eskdalemuir ...	35	27	21	Tr	Tr	0·0
Point of Ayre ...	43	41	*	–	–	0·0
Tiree	51	41	39	Tr	Tr	0·8
Stornoway ...	48	36	27	–	–	2·7
Dalwhinnie ...	39	26	22	–	–	0·2
Aberdeen † ...	44	28	16	–	–	3·7
Wick ...	46	35	33	–	–	*
Sumburgh ..	49	47	42	Tr	–	0·0
Blacksod Point	47	39	*	–	–	*
Malin Head ...	47	39		Tr	–	1·6
Aldergrove ...	41	39	39	–	–	0·0
Birr Castle ...	43	38	36	–	–	0·2
Valentia Obsy.	48	31	27	–	Tr	0·6
Roches Point	47	37	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 14th Dec.			18h. G.M.T.			01h. G.M.T. 15th Dec.			07h. G.M.T.		
	IIi C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW
109	1-	01714	22514	40	05063	23513	2-	02765	20315	00	05630	19200
115	34	02852	33424	57	02844	20520	54	02734	20226	54	01961	20323
203	20	01								70	01	
206	16	*	20313	50	01761	20114	00	05693	00013	00	05690	00010
210	50	01861	20311									
219	20	01761	22403							5-	02856	16326
230	5-	02748	00058	5-	05650	00026	--	48209	00049	50	01761	08141
245	00	01690	28201	00	65590	24100	00	00790	24200	50	01761	24212
260	50	08										
277	5-	02728	10228	5-	05558	08128	00	00690	02120	5-	05548	06128
279	02	08158	10228	57	45348	00048	--	48009	00049	5-	43355	08148
285	23	06								--	46	
288	00	41893	00043	00	45290	20240	5-	08438	16248	--	48209	00029
575	53	05556	00027	52	51434	00028	52	05555	10128	52	05554	06128
301	5-	47367	12147	--	48090	00049	--	46209	00049	--	48209	12149
321	--	41093	00049	--	48009	00049	--	46109	00059	--	48209	20149
290	50	05		5-	05		50	05		5-	05	
292	--	48109	00049				5-	45338	00048	--	48609	00049
310	24	46								60	02	
614	5-	48		--	46		--	46		5-	47	

	13h. G.M.T. 14th Dec.			18h. G.M.T.			01h. G.M.T. 15th Dec.			07h. G.M.T.		
	IIi C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW	C_L C_M	ww V_V h_s N_h	DD FF WW
333	00	05690	00014	00	05690	00013	04	08420	26102	00	08590	04214
334	--	04437	32128							--	04437	00028
340	5-	08448	31118	5-	47218	30128	--	44209	00049	--	44209	07149
136	3·	05667	30127	50	05663	18123	5-	05557	30227	5-	05558	32328
336				--	18							
350	D1	45395	01145	--	48009	10149	5-	43357	02147	5-	08458	02148
368	5·	06438	06328	5-	47338	06348	5-	45348	08348	5-	08467	41417
379	--	46109	32329	--	46009	00049	--	44109	04149	--	46209	32249
390	57	43355	00048	5-	45257	00047	5-	08467	00027	5-	45348	04148
382	D3	48395	00043	00	45290	01140	--	44109	31249	5-	45338	02348
438				5-	02758	01528	5-	02		8-	02	
430	07	05		5-	05					52	21	
409	04	01690	03315	01	01690	06213	05	05690	05328	07	05690	04313

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 15th DECEMBER.
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 ...	bFfcm	cmff	bffcmp
Croydon ...	oFxcm	cmcmcf	cFbf
Greenwich ...	bfcm	cm	cmcm
Camden Square	o	o	*
Kensington ...	bccm	cmom	*
Hampstead ...	bc	bcmx	ox

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·7 15-17h 1444 Min. Time 0·1 1-5h 15th

Stations.	Temperature. Day Max °F	Temperature. Night Min °F	Temperature. Min on grass °F	Rainfall. Day mm	Rainfall. Night mm	Sunshine to sunset hrs	Humidity. 15h % Yesterday	Humidity. 9h % To-day
Kew ...	38	34	22	–	–	0·0	*	*
Croydon ...	38	35	29	–	Tr	0·0	*	*
Greenwich ...	38	34	28	–	–	0·0	83	84
Westminster ...	40	33	29	–			74	82
Regents Park ...	42	30	25	–	–		91	85
Camden Square	37	31	27	–	–	*	*	89
Kensington ...	38	34	26	Tr	0·1		90	83
Hampstead ...	36	31	27	–	–		*	82

SECRET

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

Thursday 16th December 1943 — No. 29974

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

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)	30·6	-18	ENE	3	2_0	42	65	33	5	5	-	-	9+	9+	3100
	Croydon ...	30·8	-18	E	4	2_0	42	75	34	5	5	-	-	9+	9+	1200
	S. Farnborough	30·6	-22	NNE	3	m	40	85	38	4	5	-	-	9+	9+	2000
	Boscombe Down	30·1	-22	NE'E	2	2_0	37	85	33	6	3	-	-	9+	9+	2000
	Thorney Island	29·0	-26	NE'E	4	c-bc	43	75	34	7	5	-	-	7-8	7-8	2500
	Lympne ...	30·6	-14	ENE	5	c	40	75	33	7	5	-	-	9	9	2500
	Manston ...	30·2	-20	E'S	5	c-bc	42	75	38	7	2	-	-	7-8	7-8	1600
2	Shoeburyness ...	31·5	-18	E'N	4	c	42	86	37	8	5	-	-	9+	9+	2000
	Felixstowe ...	31·3	-10	NE	4	c	43	65	33	7	5	-	-	10	10	2500
	Gorleston ...	32·1	-6	NE'E	4	c	43	85	38	7	5	-	-	9+	9+	2000
	Mildenhall ...	32·3	-6	NE'N	2	2_0	38	97	37	5	5	-	-	10	10	3000
	Cranwell ...	33·4	-14	NNW	2	cf	33	97	32	2	5	-	-	10	10	2000
3	Birmingham ...	32·3	-30	NNE	1	f	31	85	30	2	-	-	-	10	10	<150
	Upper Heyford	32·0	-16	ENE	3	2_0	35	92	34	5	5	-	-	10	10	3500
4	Ross-on-Wye	32·1	-22	N	2	cf	31	92	29	3	5	-	-	10	10	400
5	Hartland Point	29·2	-20	SSE	3	c	38	85	33	6	5	-	-	9	9	1500
	Bristol ...	31·3	-22	NNE	2	cf+	34	85	29	3	5	-	-	9+	9+	1000
	Portland Bill ...	28·3	-14	NE	4	0	41	85	36	7	5	-	-	10	10	2500
	Plymouth ...	28·2	-10	NE	3	2_0	41	75	34	6	5	7	-	2-3	9+	1800
	The Lizard ...	27·0	-14	ENE	6	2_0	43	85	38	6	5	-	-	9+	9+	2000
	Scilly (St. Mary's)	27·2	-20	E'N	5	2_0	46	75	40	6	5	3	-	2-3	4-6	1200
	Guernsey ...															
6	Pembroke ...	31·3	-8	E'S	4	2_0	36	85	33	6	2	7	-	2-3	4-6	2000
7	Holyhead (Valley)	32·5	-2	SE	1	m/f	42	75	34	7	2	-	-	Tr	Tr	3000
	Chester (Sealand)	33·5	-14	SE	1	m/f	31	92	29	4	5	-	-	9	9	3000
8	Manchester ...	34·0	-14	SE'E	3	2_0	37	86	32	6	5	-	-	4-6	4-6	4000
10	Spurn Head ...	33·5	-16	WNW	3	m	37	85	34	4	7	-	-	9+	9+	2500
	Catterick (Sc.) ...	31·8	-14	SSE	1	f+	35	92	33	0	-	-	-	10	10	<150
	Tynemouth ...	33·9	-14	SSE	2	cf+	45	97	45	3	5	-	-	9+	9+	1800
11	St. Abbs Head	33·6	-16	NW	1	f-	41	97	41	3	-	-	-	10	10	<150
	Leuchars ...	33·6	-16	-	0	f	33	97	33	1	-	-	-	10	10	<150
12	Renfrew (Abbotsl.)	33·4	-16	-	0	cf	33	97	33	3	5	-	-	10	10	2800
	Eskdalemuir ...	33·3	-12	SE'S	1	c	40	85	37	7	5	-	-	9+	9+	1200
	Point of Ayre ...	32·4	-12	S	5	c-bc	43	75	36	7	5	-	-	7-8	7-8	3000
13A	Tiree	30·5	-18	S'W	4	c	45	75	39	7	5	-	-	10	10	1500
13B	Stornoway ...	28·2	-22	S	7	d-bc	45	85	42	6	6	2	-	9+	9+	1300
15	Dalwhinnie ...	32·0	-16	SW	3	d	38	75	33	8	5	-	-	10	10	2000
	Aberdeen ...	33·5	-16	SSE	1	cf	36	92	33	3				9	9+	1500
	Wick ...	30·7	-18	SSW	1	bc	41	92	39	8	-	-	6	0	4-6	-
16	Sumburgh ...	30·8	-18	S'W	6	bc	46	92	44	8	5	-	6	1	4-6	1500
17	Blacksod Point	29·5	-14	S	3	c	43	75	36	7	5	-	-	10	10	1500
18	Malin Head ...	30·1	-18	S	2	c	42	75	35	7	5	-	-	10	10	1500
	Aldergrove ...	32·3	-10	S'E	3	2_0	41	75	35	6	5	-	-	9	10	600
19	Birr Castle ...	30·9	-10	SSE	1	bc	36	85	32	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	29·3	-16	NE'N	2	b	39	85	35	7	-	-	1	0	1	-
	Roches Point	29·8	-16	E	4	c	45	85	41	7	5	-	-	9	9	1500

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

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)
28·8	-6	ENE	4	2_0	40	75	32	5	5	-	-	9+	9+	2100	1	*
28·8	-12	ENE	3	m	40	75	34	4	5	-	-	10	10	1400	1	*
28·6	-2	NNE	2	m	39	75	33	4	5	-	-	9	9	1800	1	*
28·1	-6	ENE	3	2_0	37	85	32	5	5	-	-	4-6	4-6	1800	0	*
27·5	-4	NE'E	2	2_0	36	85	32	6	5	-	-	4-6	4-6	2000	1	*
29·4	-2	ENE	4	2_0	34	85	31	5	5	-	-	9+	9+	800	1	§4
29·3	-4	E'N	4	2_0	36	85	32	6	5	-	-	10	10	300	1	*
29·5	-8	E'N	4	c	40	85	35	7	5	-	-	10	10	2000	1	*
30·1	-4	NE	2	c-bc	42	75	34	7	5	-	-	7-8	7-8	2500	0	3
31·0	-6	ENE	4	c	42	75	33	7	5	-	-	10	10	1500	0	4
30·7	-6	ENE	3	c	39	85	34	8	5	-	-	10	10	2000	1	*
31·7	-6	N'E	2	cf	35	97	34	3	5	-	-	10	10	2300	1	*
30·8	-8	ENE	2	m	37	85	33	4	5	-	-	10	10	800	1	*
30·2	-6	ENE	4	2_0	35	85	32	4	5	-	-	10	10	2000	1	*
29·6	-10	N'W	1	cf	33	85	30	3	5	-	-	10	10	400	1	*
27·3	-6	E	4	b-bc	39	75	31	7	5	-	-	2-3	2-3	2500	0	3
29·7	-4	NNE	1	cf	33	97	32	2	5	-	-	10	10	1700	1	*
27·6	+4	NE	4	0	41	85	36	7	5	-	-	10	10	2500	1	4
26·5	-4	ENE	4	2_0	39	85	34	5	5	-	-	9	9+	2200	1	1
25·0	-8	ENE	5	2_0	40	85	35	5	5	-	-	10	10	3000	0	5
25·6	-10	E'N	5	c	44	75	37	6	5	-	-	10	10	1200	1	4
29·3	-4	E'S	4	c	39	75	32	7	5	-	-	10	10	1500	0	2
31·2	-6	E'N	2	2_0	32	85	29	6	5	-	-	9	9	4300	1	1
31·6	-10	-	0	cf	32	97	31	3	5	-	-	10	10	1500	3	*
31·8	-12	NNE	2	cf	33	92	31	2	5	-	-	10	10	4000	3	*
32·2	-8	ESE	4	2_0	42	75	38	6	7	-	-	10	10	2500	0	3
32·7	-12	-	0	f	33	97	33	0	-	-	-	10	10	150	1	*
32·7	-4	S	2	m	42	85	39	4	5	-	-	9	9	1500	1	2
31·7	-8	SSE	1	0	40	97	40	6	5	-	-	10	10	1500	1	2
31·6	-10	-	0	f+	33	97	33	2	-	-	-	10	10	<150	3	*
31·0	-10	-	0	cf+	34	97	34	2	5	-	-	10	10	1200	1	*
31·6	-8	-	0	c	37	85	34	6	5	-	-	10	10	1100	1	*
31·3	-4	S	2	c	41	85	36	7	5	-	-	10	10	2500	0	2
28·7	-6	S'W	4	2_0	44	85	39	6	5	2	-	7-8	9+	1500	1	3
26·2	-6	SSW	7	c	45	75	37	7	5	-	-	9+	9+	1500	1	4
30·0	-10	SW	4	bc	38	85	33	8	5	-	-	4-6	4-6	2000	0	*
31·3	-12	SSW	2	cf	40	65	29	3	5	-	-	10	10	1500	1	2
29·0	-6	-	0	2_0	38	85	35	6	5	7	-	7-8	9+	2800	1	*
28·3	-8	S'W	6	c-bc	45	85	41	8	5	-	1	7-8	7-8	1700	1	3
27·8	-6	S	3	c	43	75	36	7	5	-	-	9	9	1500	1	3
29·8	+2	S'E	2	bc	37	75	30	6	5	-	1	2-3	4-6	1500	0	2
30·6	-2	-	0	m	32	92	30	4	5	-	-	1	1	2500	1	*
29·3	-8	SSE	1	b	30	92	28	8	-	-	-	0	0	-	1	*
28·4	+2	-	0	b	34	97	33	6	5	-	1	Tr	1	3200	1	1
27·9	-10	E	4	c	44	85	40	8	5	-	-	10	10	1500	1	4

PAST 24 HOURS. — Weather.

7h.—13h. 15th (39)	13h.—18h. 15th (40)	18h. 15th to 1h. 16th (41)	1h.–7h. 16th (42)
$cm_a mm_a$	cz_a	cz_a	cm_a
$cfrd_a czcz_a$	$cz_a z$	cm	cm
$cmr_a m_a m$	$cm m_a m$	cm	$cm_a m$
cm_a $3cm_a$	cm_a	cm_a	cm_a
cm_a	$cbbcm_a$	$cm_a c$	ccm_a
$ez_a e$	ccm_a	cm_a	$cm_a cm\times$
$ez_a c$	cm_a	cm_a	$cm_a m$
$cm_a c$	c	c	cm_a
$cm_a z_a c$	cbcc	$cm_a cz_a$	cm_a
c	c	cq	$cz_a q$
cm_a	$cm_a c$	c	ccm_a
cf	cf	$cf cm_a$	cm_a
ff	fom	om	$a m$
$cm\times cm_a$	$cm_a cm$	$cm cm_a$	cm_a
$a ff$	af^{ff}	$afom_a$	$a m_a$
bbc	bccbc	$bcfc$	$m_a c$
$cf\times cm\times cf\times$	$cfnf$	$cf^{wcm_a wcm_a}$	cm_a
oo	o	oo	oo
cm_a	$cz_a cm_a$	cm_a	cm_a
$cm_a z$	coz	cz	cz
cbc	bcc	c	c
$bcm_a x$	c	cm_a	cm_a
$bm_a b$	bm_a	$bcz_a bm_a$	$bcmbm\times$
$ccffm$	$mffc$	cff	$cffm$
$cfbfbcm_a$	$bcm_a cff$	$cbccf$	$c\times mm_a$
cm	cm_a	c	a
of	of	cf	af
$ocmff$	$cffm$	com	ocm
f	$fmm_a o$	$om cm_a$	cm_a
$bf_a of$	fcf	$cfbcf^{fl}$	c
of	of	$ofcf$	ef^{mf}
$d_a d_a c$	cm_a	cm_a	cm_a
e	c	c	c
$ccid_a e$	ccm_a	$cm_a c$	c
$ccid_a$	$cd_a d_a c$	$ccm_a c$	ch
co	abc		bccb
$bffcff\times$	cff	$eff^{fl} bz\times$	$bz\times$
$bbcm_a bc$	$bbcbcz_a$	bcz	$bcz_a cz_a$
$bcbbc$	bcc	c	c
c	c	c	bc
$cm_a z_a$	$z_a cm_a bm\times$	$cm\times cm_a\times$	cm_a
bc	b	•	c
b	b	bc	bc
c	c	c	c

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

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales	Light or moderate east to southeast winds; cloudy and dull, with general smoke haze and local fog; 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	Light southerly winds; cloudy; visibility poor, with some fog; rather cold.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light or moderate southwest winds, fresh to strong at times in northwest; cloudy; local drizzle in northwest; appreciable bright intervals in northeast; cold.
16 Orkneys and Shetlands	As 13-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light southerly winds; cloudy; rather cold.

GENERAL INFERENCE

A wedge of high pressure over the British Isles is almost stationary and weakening. Weather will be cloudy in most districts, with local drizzle in the northwest. Visibility will be poor over England, Wales and South Scotland; local fog; cold.

FURTHER OUTLOOK

Rain in extreme western and northwestern districts; dry and dull elsewhere. Gale warning in operation in districts 16 (part of) time of issue 2330 15th Dec.

Forecasts issued at 1030.

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

7h. Thursday 16th December, 1943.

LOW

HIGH

1010 1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032

10° 5°W. 0° 5°E 10°

60° 55° 50°

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

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Thursday 16th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Thursday 16th December 1943 — No. 29574

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon ...	290	28·3	-6	ENE	3	m	35	85	32	4	5	-	-	10	10	1000
	S. Farnborough	226	27·7	-6	ENE	3	m	35	85	31	4	5	-	-	10	10	1200
	Boscombe Down	417	26·7	-10	E	3	Z_o	35	92	33	6	5	-	-	10	10	1300
	Thorney Island	10	26·5	-12	E	3	c	34	85	30	7	5	-	-	10	10	1600
	Lympne ...	341	28·3	-6	ESE	2	Z_o	33	85	30	5	5	-	-	10	10	1600
	Manston ...	154	28·2	-8	SSE	2	Z_o	34	92	31	6	5	-	-	10	10	900
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	28·9	-4	NE	3	Z_o	38	78	32	6	5	-	-	10	10	1400
	Gorleston ...	5	29·1	-6	E	5	cg	39	85	34	7	5	-	-	10	10	1500
	Mildenhall ...	15	28·7	-6	ESE	4	cg mf	39	85	35	7	5	-	-	10	10	1700
	Cranwell ...	203	29·4	-8	NNE	1	mf	36	92	34	4	5	-	-	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·5	-10	ENE	2	Z_o	36	92	33	5	5	-	-	10	10	1400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26·0	-6	E	4	Z_o	37	75	31	6	5	-	-	9+	9+	1500
	Bristol ...	209	27·9	-6	NE'E	2	Z_o	36	85	32	5	5	-	-	10	10	1600
	Portland Bill ...	32	25·2	-10	NE	4	0	39	85	34	7	5	-	-	10	10	2500
	Plymouth ...	86	25·9	-6	ENE	3	Z_o	39	85	34	6	5	-	-	10	10	1300
	The Lizard ...	240	24·0	-8	NE	6	Z_o	43	85	39	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	24·1	-10	ENE	5	c	43	85	38	6	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	27·5	-4	NE'E	3	Z_o	37	85	33	6	5	-	-	10	10	1500
7	Holyhead (Valley)	32	29·8	-6	NE	2	Z_o	27	85	24	6	5	-	-	23	23	3000
	Chester (Sealand)	16	30·1	-2	-	0	cf	33	85	29	3	5	-	-	10	10	1800
8	Manchester ...	230	29·8	-8	ENE	1	cf	33	92	31	2	5	-	-	9+	9+	2000
10	Spurn Head ...	29	30·4	-6	ESE	4	c	43	85	38	7	7	-	-	10	10	2500
	Catterick (Sc.) ...	192	31·2	-6	-	0	cf+	44	97	34	3	5	-	-	10	10	2700
	Tynemouth ...	108	30·8	-6	SSE	2	m	42	75	35	4	5	-	-	10	10	1500
11	St. Abbs Head	280	29·7	-6	SW	3	c	40	75	33	7	5	-	-	10	10	2500
	Leuchars ...	31	30·2	-4	W	1	c-bcf	38	97	32	3	-	3	-	0	7-8	7800
12	Renfrew (Abbotsl.)	19	30·3	-6	-	0	cf	36	85	33	3	5	-	-	10	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	30·0	-6	SSW	2	c	39	85	34	8	5	2	-	46	10	3500
13A	Tiree	44	27·0	-10	S	4	c	40	85	37	7	5	-	-	9+	9+	2500
13B	Stornoway ...	12	24·1	-8	S	7	Z_o	44	75	36	7	5	2	-	7-8	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	29·1	-2	W	4	bc	39	75	31	8	5	4	-	2-3	4-6	3500
	Wick ...	114	26·5	-2	SSW	2	Z_o	38	85	34	6	1	-	-	Tr	Tr	2500
16	Sumburgh ...	15	25·8	-6	SSW	5	c	46	75	40	8	5	-	-	7-8	10	2600
17	Blacksod Point	18	26·3	-10	S'E	3	c	42	75	34	7	5	-	-	10	10	1500
18	Malin Head ...	84	27·3	-10	S'W	2	c-bc	36	85	32	8	5	1	-	4-6	7-8	1500
	Aldergrove ...	294	29·6	-6	-	0	Z_o	35	85	32	5	5	-	-	10	10	2700
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26·2	-14	E	3	b	33	85	29	7	-	-	1	0	1	-
14	Roches Point	22	26·8	-10	E	4	c	41	85	40	8	5	-	-	10	10	1500

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

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)	27·1	+2	ESE	2	Z_o	41	85	30	5	5	-	-	10	10	2500	1	*
	Croydon ...	27·6	+2	ENE	3	m	42	85	30	4	5	-	-	10	10	1000	0	*
	S. Farnborough	27·1	0	E	2	m	38	85	30	4	5	-	-	10	10	1000	0	*
	Boscombe Down	26·2	-6	ESE	2	Z_o	32	85	29	6	5	-	-	10	10	1300	0	*
	Thorney Island	25·9	-6	NE	3	Z_o	34	85	30	6	5	-	-	10	10	1400	1	*
	Lympne ...	27·3	0	E'S	2	m	30	92	28	4	5	-	-	10	10	500	0	3
	Manston ...	27·2	-6	SE	2	m	34	92	31	4	5	-	-	10	10	1200	1	*
2	Shoeburyness ...	27·2	-10	ESE	3	Z_o	36	85	32	6	5	-	-	10	10	2000	1	*
	Felixstowe ...	27·5	-2	ENE	3	Z_o	38	85	33	6	5	-	-	10	10	1400	0	3
	Gorleston ...	28·0	-8	ESE	4	Z_o	39	85	34	6	5	-	-	10	10	1500	0	5
	Mildenhall ...	27·4	-10	E	2	Z_o	36	85	33	6	5	-	-	10	10	1500	0	*
	Cranwell ...	27·7	-8	E	2	Z_o	35	87	34	5	5	-	-	10	10	2000	0	*
3	Birmingham ...	27·4	-8	ESE	2	m	35	85	32	4	5	-	-	10	10	800	1	*
	Upper Heyford	27·2	-2	E'N	2	Z_o	33	92	31	5	5	-	-	10	10	900	1	*
4	Ross-on-Wye	26·6	-10	NE	2	Z_o	36	86	32	6	5	-	-	6	10	1000	1	*
5	Hartland Point	25·3	-2	E	4	c	37	85	32	6	5	-	-	9+	9+	1500	0	3
	Bristol ...	26·7	-6	ESE	1	m	35	85	31	4	5	-	-	10	10	1500	1	*
	Portland Bill ...	24·1	-4	NE	4	c	36	75	30	7	5	-	-	10	10	2500	1	
	Plymouth ...	25·4	+2	E'N	3	Z_o	37	85	34	6	5	-	-	10	10	1200	0	1
	The Lizard ...	22·7	-8	NE	6	Z_o	42	92	40	5	5	-	-	10	10	1000	0	5
	Scilly (St. Mary's)	23·2	-4	NE'E	5	c	43	86	38	6	5	-	-	10	10	800	0	4
	Guernsey ...																	
6	Pembroke ...	27·0	-2	NE'E	3	Z_o	38	92	32	6	5	-	-	7-8	7-8	1500	0	2
7	Holyhead (Valley)	27·4	-6	ENE	1	m	27	97	27	4	-	3	-	0	2-3	8000	3	1
	Chester (Sealand)	27·4	-10	-	0	m	36	85	31	4	5	-	-	10	10	1500	0	*
8	Manchester ...	27·7	-14	NNE	2	m	35	92	33	4	5	-	-	10	10	1600	3	*
10	Spurn Head ...	28·0	-12	E'S	4	c	41	85	37	7	7	-	-	10	10	1500	0	3
	Catterick (Sc.) ...	30·2	-6	-	0	cf+	35	97	36	3	5	-	-	10	10	2500	1	*
	Tynemouth ...	29·8	-4	S	2	m	41	75	35	4	5	-	-	9+	9+	1500	0	2
11	St. Abbs Head	28·9	-8	SW	2	Z_o	35	85	32	6	5	-	-	6	10	2500	0	3
	Leuchars ...	28·4	-12	S	2	cf	37	85	32	5	5	-	-	9+	9+	4000	0	*
12	Renfrew (Abbotsl.)	28·0	-20	-	0	cf+	35	85	32	3	5	-	-	10	10	1500	0	*
	Eskdalemuir ...	29·2	-8	-	0	c	33	86	29	6	5	-	-	10	10	1100	1	*
	Point of Ayre ...	27·9	-6	S	3	c	40	75	35	7	5	-	-	10	10	3000	0	2
13A	Tiree	25·1	-30	S	5	c	41	85	37	7	5	2	-	9+	10	1600	0	4
13B	Stornoway ...	22·7	0	S	6	c	43	75	36	7	5	7	-	4-6	10	2500	1	5
15	Dalwhinnie ...	26·0	-12	SSW	4	c	33	85	29	5	-	-	-	1	10	1500	0	*
	Aberdeen † ...	27·4	-4	SW	4	m	36	75	29	4	-	-	-	0	0	-	1	2
	Wick ...	24·0	-26	SSW	2	Z_o	37	85	34	5	-	5	8	0	7-8	-	1	*
16	Sumburgh ...	23·9	-18	SSW	6	c	44	97	44	7	5	8	7	4-6	10	2500	0	8
17	Blacksod Point	24·4	-14	S	3	b	41	75	34	7	-	-	-	0	0	-	1	3
18	Malin Head ...	24·1	-38	SE'S	3	bc	34	85	30	8	-	-	7	0	4-6	-	0	2
	Aldergrove ...	27·3	-18	ESE	1	Z_o	37	75	31	6	5	-	-	10	10	2500	1	*
19	Birr Castle ...	26·8	-14	NNE	1	c	35	85	31	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	24·8	-20	E	3	c	40	75	33	7	5	-	-	9+	9+	4000	3	2
14	Roches Point	25·7	-6	E	3	c	40	85	36	8	5	-	-	10	10	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 15th. Hrs. (38)
1	London (Kew)	42	34	29	-	-	0·0
	Croydon ...	42	32	32	Tr	-	v
	S. Farnborough	41	39	32	-	-	0·1
	Boscombe Down	38	32	30	0·1	-	0·0
	Thorney Island	44	33	31	-	-	*
	Lympne ...	41	30	30	-	-	1·8
	Manston ...	43	33	33	-	-	0·0
2	Shoeburyness ...	42	35	32	-	-	0·0
	Felixstowe ...	43	37	35	-	-	0·0
	Gorleston ...	44	39	37	-	-	0·0
	Mildenhall ...	40	34	33	-	-	
	Cranwell ...	36	35	34	-	-	0·0
3	Birmingham ...	37	35	33	-	-	0·0
	Upper Heyford	36	33	32	-	-	*
4	Ross-on-Wye	33	33	32	-	-	0·0
5	Hartland Point	39	36	35	-	-	0·0
	Bristol ...	34	34	33	-	-	0·0
	Portland Bill ...	44	33	*	-	-	*
	Plymouth ...	41	37	36	-	-	0·2
	The Lizard ...	43	40	*	-	-	0·0
	Scilly (St. Mary's)	48	41	*	-	-	0·8
	Guernsey ...						
6	Pembroke ...	39	40	*	-	-	2·0
7	Holyhead (Valley)	43	25	15	-	-	*
	Chester (Sealand)	32	32	31	-	-	0·0
8	Manchester ...	39	31	19	-	-	*
10	Spurn Head ...	42	37	34	-	-	0·0
	Catterick (Sc.) ...	37	33	33	-	-	0·0
	Tynemouth ...	46	41	39	-	-	*
11	St. Abbs Head	42	36	*	Tr	-	
	Leuchars ...	34	33	26	3	-	0·0
12	Renfrew (Abbotsl.)	34	34	28	-	-	0·0
	Eskdalemuir ...	40	33	32	0·5	-	0·0
	Point of Ayre ...	44	38	*	-	-	0·0
13A	Tiree	46	40	38	Tr	*	0·0
13B	Stornoway ...	46	42	39	Tr	-	0·0
15	Dalwhinnie ...	39	31	25	-	-	0·0
	Aberdeen † ...	40	36	26	-	-	0·0
	Wick ...	43	35	31	-	-	*
16	Sumburgh ...	47	44	41	-	-	*
17	Blacksod Point	44	40	*	-	-	*
18	Malin Head ...	45	34		-	1	0·0
	Aldergrove ...	43	28	21	-	-	0·0
19	Birr Castle ...	39	28	23	-	-	1·8
20	Valentia Obsy.	41	30	25	Tr	0·1	5·5
14	Roches Point	46	39	*	-	*	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 15th DEC ... 18h. G.M.T. | 01h. G.M.T. 16th DEC ... 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	10	05742	17325	10	05661	19321	00	05650	26312	54	05651	29325
115	84	02864	20326	32	02744	20327	5-	02844	53527	54	02844	53526
203												
206	00	05690	24245	5-	05554	00024	00	05590	00010	53	05564	20216
210				5-	01854	14324	00	00790	14100	03	01790	20314
219	52	51648	16468	57	02745	16658				57	02755	16528
230	5-	02858	00028	50	05646	14126	5-	05658	00028	5-	05758	00028
245	5-	05538	26228	5-	08438	24128	5-	08444	23127	5-	05547	18227
260										5-	08	
277	5-	05647	18527				52	05663	12328	5-	05568	12168
279	5-	08443	10247	5-	45258	00048	5-	08458	14148	5-	08458	12128
285	5-	42		5-	45148	16148				5-	03748	12328
288	--	48109	17249				5-	47358	00048	5-	47258	00048
575	5-	05666	42226	52	05545	20128	5-	05557	14127	5-	05667	14128
301	00	47290	14140	5-	43268	10148	5-	08468	04128	5-	08458	04228
321	5-	45258	02148				5-	45258	00018	5-	05548	06248
290	5-	05		5-	05		5-	03		5-	02	
292	--	44109	00049				5-	45158	00018	5-	47258	00048
310												
614	5-	08455	03128	5-	45258	00028	5-	41		5-	05	

13h. G.M.T. 15th DEC ... 18h. G.M.T. | 01h. G.M.T. 16th DEC ... 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	03	02890	12805	57	02755	02227	00	05688	32200	5-	05665	00000
334	--	05544	03016	--	05546	02118				--	04409	00028
340	5-	43358	12148	5-	43334	30248	5-	45348	00048	5-	08148	09328
136	5-	05658	04128	5-	05658	06128	5-	05648	06428	5-	05648	06428
336	50	41										
350	5-	08158	08128	50	08444	06324	5-	05548	06328	5-	05548	08228
368	5-	08468	08328							5-	05548	04328
379	5-	08434	02248	5-	41416	05348	5-	05548	04128			
390	5-	05547	04227	5-	05645	06325	5-	05548	06228	5-	05548	12228
382	5-	05647	05327	5-	08443	05127	5-	05548	08228	5-	05648	10128
438	80	02					5-	05658	08428	5-	08	
430	5-	02		50	05		5-	08		5-	08	
409	5-	05667	06828	5-	05658	04328	00	05690	06300	57	05667	05327

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew ...	cm$_o$mm$_o$	c$_{Z_o}$	c$_{Z_o}$cm$_o$	
Croydon	c f fdc$_{Z_o}$	c$_{Z_o}$cz	cmcm	Kew 24 hours ended 7h. Max. Time 0·5 16h 15th
Greenwich ...	cm	cmc	cm	
Camden Square	c	c	*	
Kensington ...	cbcc	co	*	Min. Time 40·1 0-2h 16th
Hampstead ...	o	o	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 % Today	Humidity 9h % Today
Kew ...	42	34	38	-	-	0·0	*	*
Croydon ...	42	32	32	Tr	-	v	*	*
Greenwich ...	42	38	33	-	-	0·0	73	88
Westminster ...	43	35	34	-	-	0·0	73	88
Regents Park ...	42	35	33	-	-	x	74	90
Camden Square	41	35	35	-	-	*	*	88
Kensington ...	41	34	29	-	-	x	66	85
Hampstead ...	40	32	30	-	-	*	*	85

SECRET

Page 1

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

Friday 17th December 1943 — No. 29975.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	25·4	-20	SE	2	m	35	85	31	4	5	–	–	10	10	1500
	Croydon ...	25·5	-22	–	0	Z_o	34	85	31	5	5	–	–	10	10	1200
	S. Farnborough	25·7	-18	E'S	1	m	33	85	30	4	5	–	–	10	10	800
	Boscombe Down	24·9	-22	E	3	Z_o	33	85	30	5	5	–	–	10	10	600
	Thorney Island	24·7	-20	NE	3	Z_o	35	85	31	5	5	–	–	10	10	1200
	Lympne ...	25·8	-22	–	0	m	32	85	29	4	5	–	–	10	10	800
	Manston ...	25·8	-14	S'W	1	Z_o	32	92	30	5	5	–	–	10	10	500
2	Shoeburyness ...	25·9	-20	SE	2	Z_o	35	85	32	6	5	–	–	10	10	1000
	Felixstowe ...	26·5	-14	SE	3	Z_o	37	85	32	5	5	–	–	10	10	2000
	Gorleston ...	27·1	-12	SE	4	Z_o	37	85	34	6	5	–	–	10	10	1000
	Mildenhall ...	26·0	-20	E'S	2	Z_o	37	85	32	6	5	–	–	10	10	1500
	Cranwell ...	25·9	-20	SSE	2	Z_o	36	85	32	6	5	–	–	10	10	3000
3	Birmingham ...	25·9	-20	ESE	2	Z_o	33	85	30	5	5	–	–	10	10	800
	Upper Heyford	25·8	-20	E'N	3	Z_o	34	85	30	5	5	–	–	10	10	1000
4	Ross-on-Wye	24·8	-20	E	2	Z_o	34	85	30	5	5	–	–	10	10	800
5	Hartland Point	22·4	-24	ESE	3	c	36	85	33	6	5	2	–	4-6	9+	1500
	Bristol ...	25·2	-20	ESE	1	Z_o	35	85	31	5	5	–	–	10	10	1000
	Portland Bill ...	23·3	-22	NE	4	o	36	75	30	7	5	–	–	10	10	2500
	Plymouth ...	22·7	-22	E'N	4	Z_o	39	92	37	5	5	–	–	10	10	600
	The Lizard ...	21·8	-10	ENE	6	Z_o	45	85	41	5	6	–	–	10	10	1200
	Scilly (St. Mary's)	21·6	-16	SE	4	c	46	92	44	6	5	–	–	10	10	1800
	Guernsey ...															
6	Pembroke ...	23·7	-16	E	4	Z_o	36	85	33	6	5	–	–	10	10	2000
7	Holyhead (Valley)	24·9	-18	ENE	1	Z_o	36	85	31	5	5	–	–	9	9	3000
	Chester (Sealand)	25·3	-22	ESE	2	Z_o	36	85	31	5	5	–	–	10	10	2000
8	Manchester ...	25·7	-18	SE	2	Z_o	37	75	31	6	5	–	–	9	9	2000
10	Spurn Head ...	26·4	-18	SE	3	Z_o	41	85	36	6	7	–	–	10	10	2500
	Catterick (Sc)...	27·5	-14	SSW	1	of-	38	97	38	3	5	–	–	10	10	2000
	Tynemouth ...	27·5	-14	S	2	m	44	85	39	4	5	–	–	9+	9+	1800
11	St. Abbs Head	25·9	-16	SSW	3	o	39	85	34	7	5	–	–	7-8	10	2500
	Leuchars ...	26·3	-14	–	0	Z_o	35	85	21	6	5	–	–	10	10	2200
12	Renfrew (Abbotsl.)	25·9	-18	E'N	1	m	35	85	31	4	5	–	–	10	10	2000
	Eskdalemuir ...	25·7	-18	–	0	c	36	85	31	7	5	–	–	10	10	1200
	Point of Ayre...	24·6	-10	SSE	4	c	41	75	35	7	5	–	–	10	10	2500
13A	Tiree	22·2	-32	SSE	4	Z_o	41	97	41	6	5	2	–	7-8	10	2000
13B	Stornoway ...	20·7	-24	SSW	6	c	43	65	33	7	8	–	–	4-6	9+	1500
15	Dalwhinnie ...	24·5	-8	SSW	3	bc	33	85	28	6	8	–	–	4-6	4-6	2000
	Aberdeen ...	26·0	-6	SW	2	Z_o	36	75	30	5	5	–	–	10	10	1500
	Wick ...	23·2	-22	–	0	Z_o	37	92	35	6	–	–	1	0	Tr	–
16	Sumburgh ...	23·8	-10	SW'S	4	Z_o	43	75	37	6	5	–	5	7-8	9+	2500
17	Blacksod Point	20·3	-30	S	6	b-bc	42	75	35	7	8	–	–	2-3	2-3	4000
18	Malin Head ...	21·9	-34	S	1	b	37	75	30	7	–	–	–	0	0	–
	Aldergrove ...	23·9	-28	SE'E	1	Z_o	37	85	33	5	5	–	–	10	10	1000
19	Birr Castle ...	22·2	-34	S	2	c	39	75	32	7	5	2	–	7-8	10	2500
20	Valentia Obsy.	20·4	-38	SSE	5	b	45	75	38	7	1	–	–	1	1	2800
	Roches Point	22·6	-26	E	4	c	42	85	35	7	5	–	–	10	10	1500

OBSERVATIONS at 18h. G.M.T. 16th December

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)
23·9	-6	SE's	2	m	34	85	30	4	5	–	–	10	10	1500	1	*
24·6	-6	–	0	f+	32	92	30	2	5	–	–	10	10	500	0	*
24·3	-6	–	0	of+	32	85	29	3	5	–	–	10	10	700	0	*
23·7	-6	E	2	m	33	97	32	4	5	–	–	10	10	300	0	*
23·3	-8	NNE	2	Z_o	34	92	32	6	5	–	–	10	10	800	1	*
24·5	-6	NE	1	of+	32	97	31	3	5	–	–	10	10	500	0	2
24·4	-8	S	1	m	34	92	32	4	5	–	–	10	10	800	1	*
23·0	-2	SE	2	Z_o	33	85	30	6	5	–	–	10	10	1500	1	*
24·6	-6	SSE	2	m	36	85	32	4	5	–	–	10	10	1000	0	2
24·8	-10	SE	3	Z_o	38	85	34	5	5	–	–	10	10	1000	0	3
24·3	-4	SE'S	3	Z_o	36	85	33	5	5	–	–	10	10	1100	0	*
24·1	-6	SSE	2	Z_o	34	92	32	5	5	–	–	10	10	1000	0	*
24·0	-8	SSE	2	Z_o	33	85	30	6	5	–	–	10	10	800	1	*
24·1	-8	SE	2	m	33	85	30	4	5	–	–	10	10	800	1	*
23·1	-8	S	2	m	33	85	29	4	5	–	–	10	10	800	1	*
20·9	-10	E	2	Z_o	36	97	36	6	5	–	–	9+	9+	1500	1	3
23·6	-8	SE'E	2	m	34	92	32	4	5	–	–	10	10	500	1	*
22·0	-4	NE	4	o	38	85	33	7	5	–	–	10	10	2500	1	4
21·7	-6	E'N	3	m	40	97	40	4	5	–	–	10	10	800	0	1
19·9	-8	ESE	4	Z_o	45	92	43	6	6	–	–	10	10	1000	0	4
19·9	-6	SE	3	Z_o	47	85	43	6	8	–	–	10	10	800	0	4
21·0	-2	S'E	4	Z_o	42	85	38	6	5	–	–	10	10	2000	0	2
22·1	-8	ESE	2	m	35	85	32	4	5	–	–	10	10	1700	1	1
23·0	-8	SSE	3	of+	34	85	29	3	5	–	–	10	10	2000	0	*
23·4	-10	SSE	3	Z_o	33	85	28	5	5	–	–	10	10	1100	1	*
23·9	-10	SE	4	Z_o	39	85	36	6	7	–	–	10	10	2500	0	3
24·8	-14	SE	2	m/f	37	85	34	4	5	–	–	10	10	1700	1	*
23·9	-16	S	3	Z_o	42	75	36	6	5	–	–	10	10	1500	0	3
22·1	-16	S	4	Z_o	40	75	32	5	5	–	–	10	10	2500	0	3
22·5	-16	S	1	Z_o	34	85	31	5	5	–	–	10	10	1800	3	*
21·6	-18	E	2	m	36	85	32	4	5	–	–	10	10	1600	1	*
21·5	-22	ESE	2	c	35	85	30	8	4	–	–	10	10	1100	1	*
21·0	-10	S	5	Z_o	39	85	34	6	5	–	–	10	10	1800	0	3
18·1	-22	S	5	Z_o	43	75	37	6	5	–	–	10	10	1500	0	4
16·5	-20	S	5	Z_o	43	75	35	6	5	2	–	7-8	10	900	0	1
20·0	-22	S	4	b	29	85	24	6	5	–	–	1	1	2500	3	*
22·0	-20	SW	2	m	37	85	32	4	5	–	–	10	10	1500	1	2
19·6	-12	SSE	3	Z_o	39	75	32	6	–	–	–	0	0	–	3	*
20·7	-18	S'E	6	Z_o	44	85	39	6	5	–	–	9+	9+	2000	0	4
14·9	-42	S	6	bc	43	85	39	7	5	–	–	4-6	4-6	2500	1	4
18·2	-14	SE'S	2	c	38	75	31	6	5	–	–	9+	9+	1500	0	2
20·0	-14	SSE	2	Z_o	38	85	33	5	5	–	–	10	10	1200	1	*
19·1	-12	SSE	2	c	39	85	35	7	5	–	–	10	10	2500	1	*
16·7	-22	SE	4	i6	45	75	38	6	5	–	–	10	10	1800	0	3
19·0	-14	SE	4	c	44	92	42	7	5	–	–	10	10	1500	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 16th (39)	13h.—18h. 16th (40)	18h. 16th to 1h. 17th (41)	1h. –7h. 17th (42)
$cm_o m$	cm	om	omcf
cm_o	cmcf	of	cfof
cm	cmcf	cfoF	oF
cm_o	$cm_o om_o m_o$	$om_o of_E$	$od_o d_o oF$
cm_o	cm_o	cmcf	cmfcm
cmxcm	cm	$offbFfx$	$bbcFcfx$
cmm_o	omm_o	om	$bf_E bcfx$
cm_o	cm_o	cm_o	cm
$cz_o cm_o$	cm_o	$cfcm$	cm
cz_o	cz	$cm_o z_o$	cz_o
cm_o	cm_o	$cm_o om_o$	$om_o fo F$
cm_o	cm_o	cm_o	$f Fw$
omz	oz	oz	$id_E f$
cm_o	$cm_o cm$	$cm_o ff$	a
om_o	om_o	om	$d_o mom$
c	cm_o	cmz	$bccbc$
cm_o	cm_o	$od_o d_o f$	$of d_o d_o$
o	o	oo	oo
cm_o	$om_o om$	$om cm_o$	$cm_o c$
cz_o	cz_o	czo	$bcczo$
$cm_o c$	c	c	cbc_E
cm_o	cm_o	cm —	$cm_o c$
$cm_o x$	cm_o	$om_o d_o d_o$	$od_o d_o dd_o$
cm	$cm_o m$	ffm_o	$mdd_o o$
cmm_o	$cm_o mm_o$	$om_o m$	$cmid_o ff$
om_o	om_o	om_o	f
cf	$cf cm$	em	$cm_o f$
cm	$om om_o$	om_o	om_o
$cm_o m$	$cm_o om$	$bccmm_o o$	$m_o oc$
cm_o	cm_o	$cm_o cm$	cm
$cfcmz$	$cm_o bcmcm$	cm	$cid_o mdcm$
cm_o	c	c	c
c	$cz_o o$	c	o
ccm_o	cm_o	cm_o	$cm_o ir_o m_o$
$cm_o c$	ccm_o	$bccm_o$	cm_o
bbc	bcb		bo
$bzxcmz$	$cz_o cz$	$czcq$	$eq bccz$
$cmbebm_o$	bcm_o	cm_o	$bcm_o bm_o b$
cz_o	cz_o	$co_o pro$	$epr_o z_o$
bc	bc	c	+
b	bc	e	
$cm_o cz_o$	$cz_o m_o$	$cm_o c$	$cid_o c$
c	c		c
bc	r	r	+
c	c	+	+

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 17th December 1943.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light south wind becoming moderate; fresh locally veering west later; cloudy at first with local fog; rain spreading from west later followed by fair weather; becoming milder.
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 or fresh south wind, strong to gale locally on coasts, veering west and decreasing; cloudy with occasional rain at first; bright intervals and local showers later; becoming milder.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Fresh south wind, strong to gale on coasts, veering west and decreasing; rain at first; bright intervals and showers later; milder.
16 Orkneys and Shetlands	As 18-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate or fresh west wind backing south later and freshening; bright intervals local showers; rather cold.

GENERAL INFERENCE

A trough of low pressure over West Ireland is moving east followed by a ridge of high pressure; rain will spread east across the British Isles followed by a mainly fair interval.

FURTHER OUTLOOK

Unsettled and mild. Rain in West Ireland spreading northeast across the British Isles. Gale warning in operation in all districts except 1, 2, 3, 4 and 5.

Times of issue 2330h. 15. Dec. 1600h. 16. Dec, 0600h. 17. Dec and 0900h. 17. Dec. 1943.

Forecasts issued at 1030.

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

7h. Friday 17th December 1943.

Low

HIGH

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

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

Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 17th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. - Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Friday 17th December 1943 — No. 29975.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	32				*	*	*	*	*	*
	Croydon ...	290	21·7	-18	-	0	f	29	97	28	2	-	-	-	10	10	<150
	S. Farnborough	226	20·9	- 6	ENE	2	f	30	97	30	1	-	-	-	10	10	<150
	Boscombe Down	417	20·8	-12	E	3	f+	30	97	30	0	-	-	-	10	10	<150
	Thorney Island	10	20·3	-14	NE'E	3	cf+	36	97	36	5	5	-	-	10	10	1000
	Lympne ...	341	20·8	-22	NE	1	cf+	30	97	30	1	-	-	-	0	0	-
	Manston ...	154	22·2	- 8	ESE	1	bf+	32	97	31	3	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	22·5	- 8	SSW	1	m	37	85	34	4	5	-	-	10	10	700
	Gorleston ...	5	22·8	-14	S	2	Z_0	38	85	33	6	5	-	-	10	10	600
	Mildenhall ...	15	21·5	-14	S	2	m	32	97	32	4	5	-	-	10	10	500
	Cranwell ...	203	20·5	-18	SSW	2	Z_0	32	97	31	5	5	-	-	10	10	900
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·0	-18	-	0	f+	30	97	30	1	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·2	-22	ENE	1	Z_0	40	97	40	7	5	-	-	4-6	4-6	1500
	Bristol ...	209	20·2	-18	E'S	1	df	34	97	33	2	5	-	-	10	10	100
	Portland Bill ...	32	18·6	-14	NE	4	c	42	85	39	7	5	-	-	10	10	2500
	Plymouth ...	86	17·5	-22	E	2	Z_0	43	97	42	5	5	-	-	10	10	1500
	The Lizard ...	240	16·3	-24	SE	4	Z_0	48	85	45	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	15·0	-22	S'W	4	c	49	85	45	7	8	-	-	9+	9+	800
	Guernsey ...	175															
6	Pembroke ...	142	10·6	-20	S'E	5	Z_0	44	97	43	6	5	-	-	10	10	1500
7	Holyhead (Valley)	32	17·4	-22	SSE	4	d_0d_0	38	85	35	5	5	-	-	10	10	900
	Chester (Sealand)	16	19·2	-18	SE	2	m	38	83	30	4	5	-	-	10	10	800
8	Manchester ...	230	19·5	-18	S'W	3	m	32	97	31	4	5	-	-	10	10	1000
10	Spurn Head ...	29	20·9	-20	S	3	Z_0	36	85	32	6	7	-	-	10	10	1500
	Catterick (Sc.) ...	192	19·9	-20	S	3	m	31	97	30	4	5	-	-	10	10	900
	Tynemouth ...	108	20·0	-14	S	4	Z_0	34	85	31	6	5	-	-	10	10	1500
11	St. Abbs Head	280	17·2	-22	S	2	Z_0	35	85	31	6	5	-	-	10	10	2500
	Leuchars ...	31	16·8	-22	W	1	m	33	97	32	4	5	-	-	10	10	1800
12	Renfrew (Abbotsl.)	19	16·3	-24	SE'S	3	m	36	85	32	4	5	-	-	10	10	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	17·6	-22	S'W	4	Z_0	40	92	38	6	5	-	-	10	10	1800
13A	Tiree	44	10·6	-30	S	6	Z_0	41	85	38	6	5	-	-	10	10	1800
13B	Stornoway ...	12	08·2	-32	S	8	Z_0	43	75	34	6	5	-	-	9+	9+	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	15·1	-14	S	3	Z_0	38	85	33	5	5	-	-	9+	9+	1700
	Wick ...	114	13·0	-30	S	4	b-bc	40	85	35	6	5	-	-	2-3	2-3	800
16	Sumburgh ...	15	14·2	-30	S'E	6	c/p+	45	85	42	6	2	-	-	9	9	1500
17	Blacksod Point	18	04·2	-58	S	6	c-bc	49	75	41	7	8	-	-	7-8	7-8	2500
18	Malin Head ...	84	09·2	-46	S'E	4	c	39	75	32	6	5	-	-	9	9	1500
	Aldergrove ...	294	14·0	-34	S'E	3	c	39	97	38	7	5	-	-	10	10	1600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	06·9	-26	SSE	5	c	49	85	45	7	3	2	-	7-8	10	2100
	Roches Point	22	10·4	-26	SSW	6	bc	48	92	44	8	5	3	-	2-3	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·3	-20	-	0	cf	32	97	31	3	5	-	-	9+	9+	2800	1	*
	Croydon ...	17·6	-22	E	1	cf+	31	97	30	2	5	-	-	10	10	2000	0	*
	S. Farnborough	14·3	-18	ENE	3	f	31	97	30	0	-	-	-	10	10	<150	0	*
	Boscombe Down	16·6	-18	SE	3	f-	33	97	33	1	-	-	-	10	10	<150	1	*
	Thorney Island	16·2	-20	NE'E	2	m	38	97	37	4	5	-	-	10	10	900	0	*
	Lympne ...	17·9	-18	ESE	2	cf-	36	97	36	3	5	-	-	9+	9+	1000	0	2
	Manston ...	19·4	-14	-	0	c-bcf	29	97	28	2	-	3	-	7-8	7-8	1000	1	*
2	Shoeburyness ...	18·1	-20	SE	2	Z_0	37	97	36	6	5	-	-	9+	9+	2500	1	*
	Felixstowe ...	18·5	-18	SSE	2	m	38	92	36	4	5	-	-	10	10	800	0	1
	Gorleston ...	18·5	-24	SSE	2	Z_0	39	85	34	6	5	-	-	10	10	1000	0	2
	Mildenhall ...	17·6	-18	SSE	2	f	32	97	32	1	-	-	-	10	10	<150	0	*
	Cranwell ...	16·4	-18	SSE	3	f	30	97	30	•	-	-	-	10	10	<150	1	*
3	Birmingham ...	15·6	-24	SE	2	df	30	97	30	2	6	-	-	10	10	450	1	*
	Upper Heyford	16·3	-28	SE	2	f	30	97	30	1	-	-	-	10	10	<150	3	*
4	Ross-on-Wye	15·1	-26	E	2	m	33	97	32	4	5	-	-	10	10	600	1	*
5	Hartland Point	10·9	-28	ESE	3	bc	43	92	41	7	5	-	-	4-6	4-6	2600	1	3
	Bristol ...	15·4	-26	ESE	2	df	35	97	35	2	-	-	-	10	10	<150	1	*
	Portland Bill ...	14·8	-26	SE	4	c	48	85	44	7	5	-	-	10	10	2500	1	*
	Plymouth ...	13·1	-20	SE	3	c	48	85	46	7	5	-	-	7-8	10	1500	1	1
	The Lizard ...	10·6	-16	S	5	Z_0	50	92	48	6	5	-	-	10	10	1500	0	4
	Scilly (St. Mary's)	09·3	-24	S'E	5	c	51	92	49	7	5	-	-	9+	9+	1500	0	5
	Guernsey ...																	
6	Pembroke ...	10·6	-24	SSE	6	Z_0	47	92	45	6	5	-	-	10	10	1500	0	8
7	Holyhead (Valley)	11·5	-18	SE'S	4	d_0d_0	40	92	38	5	5	-	-	10	10	1400	1	3
	Chester (Sealand)	14·6	-22	SSE	3	d_0d_0	33	97	32	4	5	-	-	10	10	900	1	*
8	Manchester ...	15·4	-24	SSE	4	df	31	97	31	6	5	-	-	10	10	1000	1	*
10	Spurn Head ...	17·3	-20	S	3	cf+	34	92	32	3	5	-	-	10	10	1500	0	3
	Catterick (Sc.) ...	15·9	-22	SSE	3	f+	31	97	31	1	-	-	-	10	10	<150	1	*
	Tynemouth ...	15·5	-20	S	4	c	32	92	30	5	5	-	-	10	10	2500	0	3
11	St. Abbs Head	13·8	-32	S	3	Z_0	32	75	26	5	5	2	-	7-8	10	1500	10	2
	Leuchars ...	12·2	-26	S	3	m	35	85	32	4	5	-	-	9+	9+	2100	1	*
12	Renfrew (Abbotsl.)	10·5	-22	E'S	3	m	37	85	33	4	5	-	-	10	10	1400	1	*
	Eskdalemuir ...	13·2	-18	SE'S	2	c	30	92	29	7	5	-	-	10	10	1200	6	*
	Point of Ayre ...	11·8	-14	SE	6	o	39	97	38	6	5	-	-	10	10	2000	0	4
13A	Tiree	02·9	-44	SSE	7	c	47	85	44	6	5	-	-	10	10	1800	1	6
13B	Stornoway ...	02·4	-26	SSE	6	Z_0	47	75	39	6	5	2	-	9	10	1500	0	6
15	Dalwhinnie ...	09·0	-24	S	3	c	35	85	31	6	5	2	-	7-8	10	2000	3	*
	Aberdeen † ...	11·5	-14	SSW	3	m	37	75	31	4	5	-	-	4-6	10	1100	1	2
	Wick ...	08·8	- 8	S'E	4	b	38	85	33	7	-	3	-	0	1	-	3	*
16	Sumburgh ...	09·1	-22	SSE	6	Z_0	45	85	40	6	5	-	-	9+	9+	1700	0	4
17	Blacksod Point	06·6	-26	S	7	++	45	97	45	7	6	2	-	4-6	9	800	2	5
18	Malin Head ...	00·5	-46	SE'S	5	i/o	45	85	41	7	-	2	-	10	10	1500	0	4
	Aldergrove ...	06·0	-34	SE'S	5	c	46	85	41	7	8	-	-	9	9+	1800	1	*
19	Birr Castle ...	02·1	-42	S	5	c	48	85	44	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	01·0	-18	SSW	6	RR	47	92	45	6	6	-	-	4-6	10	1400	2	4
	Roches Point	03·5	-34	SSW	7	c/r	49	92	47	7	6	2	-	4-6	10	800	1	5

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 16th Hrs. (38)
1	London (Kew)	36	29	27	-	-	0·0
	Croydon ...	34	29	29	-	-	0·0
	S. Farnborough	34	28	30	-	-	0·0
	Boscombe Down	34	30	31	-	0·3	0·0
	Thorney Island	36	32	33	-	-	*
	Lympne ...	33	28	25	-	-	0·0
	Manston ...	34	29	25	-	-	0·0
2	Shoeburyness ...	36	32	32	-	-	0·0
	Felixstowe ...	38	36	36	-	-	0·0
	Gorleston ...	42	38	38	-	-	0·0
	Mildenhall ...	38	31	29	-	-	0·0
	Cranwell ...	36	30	29	-	-	0·0
3	Birmingham ...	35	30	27	-	Tr	0·0
	Upper Heyford	34	29	31	-	-	*
4	Ross-on-Wye	36	32	32	-	Tr	0·0
5	Hartland Point	37	35	34	-	-	0·0
	Bristol ...	35	32	33	-	0·1	0·0
	Portland Bill ...	38	34	*	-	-	*
	Plymouth ...	40	38	37	-	-	0·0
	The Lizard ...	46	44	*	-	-	0·0
	Scilly (St. Mary's)	47	42	*	-	-	0·0
6	Pembroke ...	42	40	*	-	Tr	0·0
7	Holyhead (Valley)	38	39	33	-	Tr	*
	Chester (Sealand)	38	32	32	-	Tr	0·0
8	Manchester ...	39	31	31	-	Tr	*
10	Spurn Head ...	43	31	*	-	-	0·0
	Catterick (Sc.) ...	38	30	30	-	-	0·0
	Tynemouth ...	44	32	32	-	-	*
11	St. Abbs Head	40	30	*	-	-	*
	Leuchars ...	37	33	32	-	-	0·0
12	Renfrew (Abbotsl.)	37	35	32	-	Tr	0·0
	Eskdalemuir ...	37	29	28	-	-	0·0
	Point of Ayre ...	41	37	*	-	-	0·0
13A	Tiree	48	38	39	-	-	0·0
13B	Stornoway ...	44	41	38	-	-	0·0
15	Dalwhinnie ...	34	29	25	-	-	0·0
	Aberdeen † ...	37	36	32	-	-	0·0
	Wick ...	41	38	*	-	-	*
16	Sumburgh ...	45	43	42	-	Tr	0·0
17	Blacksod Point	43	45	*	-	7	*
18	Malin Head ...	39	36		-	0·3	2·7
	Aldergrove ...	39	36	34	-	Tr	0·0
19	Birr Castle ...	39	38	37	-	-	0·0
20	Valentia Obsy.	45	45	42	Tr	8	2·8
	Roches Point	43	44	*	-	6	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 16th December — 18h. G.M.T. — 01h. G.M.T. 17th December — 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	5-	05565	16125	5-	05554	16424	50	05654	48624	50	05661	48511
115	54	02844	20426	54	02844	20424	50	01863	20213			
203				5-	03							
206	00	05530	00010	00	05530	00000	00	08490	00000	50	08453	16223
210	04	05630	18202	00	05690	14200	00	00790	00000	03	01790	16204
219	5-	07756	15526	5-	05648	16628				57	61728	01046
230	5-	05648	00058	5-	05653	00023	5-	31648	20358	5-	21647	22257
245	57	05654	23327	5-	05558	00028	5-	05548	22328	5-	07248	18328
260				--	48		5-	47	--	5-	45	
277	5-	05648	10428	5-	08448	12428				02	51428	15658
279	00	05530	22200	00	08490	00010	5-	08448	16118	5-	08447	12347
285	5-	05					5-	08448	16118	--	40	
288	5-	02767	13147	5-	05648	14328	5-	08448	18428	5-	08428	15228
575	5-	02745	14227	5-	05648	16228	57	31546	17358	57	21644	47557
301	5-	08448	12228	52	08448	12328	5-	05548	15328	5-	31548	12458
321	5-	05658	00028	5-	05548	18228	5-	04438	14228	5-	47238	18428
299							5-	05648	20328	5-	08	
292	5-	08443	00028	5-	05648	14228	9-	05538	16328	--	48109	14229
310				--	46							
614	5-	08		5-	08		5-	08		--	46	

13h. G.M.T. 16th December — 18h. G.M.T. — 01h. G.M.T. 17th December — 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	53	05666	00027	52	05546	16428	5-	08448	47358	52	51646	45458
334	--	02646	16217	--	04445	18216						
340	5-	05548	12328	5-	45338	12448	--	48109	00049	5-	43328	10858
136	5-	05648	12328	5-	05548	12228	5-	05528	14228	--	44109	14249
336	50	05								--	46	
350	5-	05548	10228	5-	05538	12128				--	46609	14149
368	5-	05548	08328	5-	08438	08328	5-	57318	00058	--	57309	08259
379				5-	45318	12248	--	46109	14149	--	48109	14249
390	6-	05538	10328	5-	08438	10228	5-	45328	12148	--	44109	10449
382	5-	05548	12128	5-	45338	14148	--	48109	14149	--	44109	14249
438	5-	08438	04328	50	05653	06313	--	48009	06349	--	44	
430	5-	05538	06228	5-	08					5-	05	
409	5-	05538	06228	5-	08424	12428	3-	05547	14427	62	61635	14527

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 17th December 1943
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	cm$_0$m	cm	omcf
Croydon ...	cm$_0$	cmcf	ofcf
Greenwich ...	om	om	omfc
Camden Square	o	o	*
Kensington ...	omof	omo	*
Hampstead ...	ox	of	of

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·58—20h 16th
Min. Time 0·1 2-5h 17th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % Today
Kew	36	29	29	-	-	0·0	*	*
Croydon ...	34	29	29	-	-	0·0	*	*
Greenwich ...	34	29	29	-	-	0·0	88	88
Westminster ...	36	34	32	-	-	*	91	97
Regents Park ...	36	31	29	-	-		90	97
Camden Square ...	35	31	31	-	-	*	*	98
Kensington ...	36	31	29	-	Tr	*	82	97
Hampstead ...	34	28	25	-	-	*	*	99

SECRET

Page 1

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

BRITISH SECTION

Saturday 18th December 1943

No. 29976

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force. (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14.1	-20	E'N	2	bf	41	85	37	2	5	–	–	1	1	3100
	Croydon ...	13.5	-24	SSE	3	2_o	47	85	42	5	–	3	–	0	4-6	[illegible]
	S. Farnborough	13.4	-22	ESE	2	of–	42	97	41	3	5	–	–	10	10	500
	Boscombe Down	13.1	-22	SE'S	3	2_o	45	97	44	6	5	–	–	9	9	800
	Thorney Island	14.3	-10	SSE	2	2_o	47	85	44	6	5	7	–	4-6	9+	2200
	Lympne ...	15.3	-14	S	3	m	41	92	39	4	–	3	–	0	9+	[illegible]
	Manston ...	15.6	-14	SSW	3	2_o	41	85	38	5	5	–	–	9	9	7000
2	Shoeburyness ...	15.8	-20	–	0	m	41	85	37	4	–	5	–	9+	9+	8000
	Felixstowe ...	14.8	0	SSW	2	m	41	85	38	4	–	3	–	0	7-8	[illegible]
	Gorleston ...	14.8	-32	SSE	2	2_o	41	92	39	5	5	3	–	4-6	9+	800
	Mildenhall ...	14.3	-26	S'E	2	m	40	92	38	4	–	3	–	0	9+	[illegible]
	Cranwell ...	14.7	-14	SSE	2	f–	31	97	31	2	–	–	–	10	10	7150
3	Birmingham ...	12.0	-40	SE	2	F	34	97	34	1	–	–	–	10	10	7150
	Upper Heyford	13.5	-20	SE	2	F	35	97	35	1	–	–	–	10	10	7150
4	Ross-on-Wye	10.5	-62	S	3	2_o	45	85	41	5	5	–	–	9+	9+	800
5	Hartland Point	07.1	-24	S	3	c	49	85	44	7	1	7	–	Tr	9+	1500
	Bristol ...	11.3	-30	S	3	2_o	47	85	43	6	5	–	6	9	9+	800
	Portland Bill ...	11.9	-30	SE	4	c	49	92	47	8	5	–	–	9	9	4500
	Plymouth ...	09.7	-22	SSW	5	c/r	49	92	47	7	5	?	–	2-3	10	800
	The Lizard ...	08.9	-12	SSW	6	o	50	75	43	7	5	–	–	10	10	2000
	Scilly (St. Mary's)	06.2	-22	SWS	7	6_o6_o	49	85	45	6	8	–	–	10	10	1000
	Guernsey ...															
6	Pembroke ...	05.7	-16	WSW	6	c	50	85	46	7	5	–	–	10	10	2000
7	Holyhead (Valley)	04.6	-42	SSE	7	c	48	75	41	7	5	7	7	4-6	9+	1000
	Chester (Sealand)	09.7	-32	SSE	3	m	37	85	34	4	5	–	–	10	10	800
8	Manchester ...	12.0	-18	SSE	3	2_o	39	85	36	5	5	–	–	9+	9+	500
10	Spurn Head ...	14.6	-14	S	3	2_o	34	97	34	5	5	–	–	10	10	1500
	Catterick (Sc.) ...	12.8	-30	SSE	4	F–	32	97	32	1	–	–	–	10	10	7150
	Tynemouth ...	11.8	-24	S	4	m	35	92	33	4	5	–	–	10	10	1600
11	St. Abbs Head	09.3	-28	S	3	of+	32	97	32	3	5	–	–	10	10	1500
	Leuchars ...	08.3	-22	ESE	3	m	39	85	36	4	5	3	–	4-6	9	1500
12	Renfrew (Abbotsl.)	05.9	-30	SE'E	4	2_o	40	85	35	5	5	7	9	4-6	7-8	1600
	Eskdalemuir ...	08.0	-34	SE'S	2	f–	33	92	31	3	5	–	–	10	10	7150
	Point of Ayre ...	04.6	-42	S'E	6	2_o	42	85	38	6	6	–	–	10	10	1500
13A	Tiree	98.1	-26	SSE	8	6_o6_o	47	97	46	5	6	2	–	9	10	400
13B	Stornoway ...	96.8	-30	SSE	9	c/r	48	75	39	7	5	7	9	4-6	9+	1500
15	Dalwhinnie ...	05.0	-24	SSE	4	m	34	85	31	4	5	–	–	9	9	1500
	Aberdeen ...	08.3	-24	S	3	m	40	85	37	4	5	–	–	10	10	800
	Wick ...	05.0	-26	SSE	7	2_o	41	92	39	5	5	3	4	4-6	9	500
16	Sumburgh ...	07.3	-18	SSE	6	2_o	45	85	41	6	5	3	–	9	9+	1600
17	Blacksod Point	00.4	+14	W	5	6_o-bc	45	55	30	8	8	–	–	2-3	2-3	2500
18	Malin Head ...	97.6	-8	SSW	5	rr	44	85	40	7	6	2	–	2-3	10	1500
	Aldergrove ...	00.4	-30	S	5	c/r	46	85	43	7	5	7	–	4-6	10	800
19	Birr Castle ...	02.4	+12	SSW	2	ir	40	92	38	7	6	2	–	7-8	10	800
20	Valentia Obsy.	04.8	+14	WNW	3	pr	45	75	37	8	8	–	–	9+	9+	2500
	Roches Point	03.7	+14	NW	4	6_oc/r	43	92	41	8	5	–	5	4-6	7-8	1500

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 0–12 Force. (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)	12.4	-2	S'E	2	m/f	44	65	33	4	5	–	–	2-3	2-3	2100	1	*
	Croydon ...	12.8	-2	SSE	3	n	46	92	44	4	5	–	–	4-6	4-6	2000	1	*
	S. Farnborough	11.9	-4	E'S	2	c-bc	43	97	42	3	5	7	–	7-8	7-8	1000	1	*
	Boscombe Down	10.9	-8	S	4	2_o	46	92	44	6	5	–	–	9+	10	400	1	*
	Thorney Island	12.4	-14	S'E	4	2_o	45	92	43	6	5	4	–	2-3	4-6	3000	1	*
	Lympne ...	14.6	-2	SSE	2	o/f+	42	92	40	3	5	–	–	10	10	500	0	3
	Manston ...	14.4	-2	S'W	3	m	41	92	39	4	–	–	–	0	0	–	1	*
2	Shoeburyness ...	14.4	-2	SSE	3	2_o	43	92	41	5	–	7	–	9	9	8000	1	*
	Felixstowe ...	13.8	-10	SW'S	2	2_o	40	97	39	5	–	7	–	0	1	–	0	2
	Gorleston ...	14.4	-8	S	3	2_o	41	97	40	5	6	–	–	4-6	4-6	800	0	2
	Mildenhall ...	12.3	-10	SSE	3	o/f–	41	97	40	3	5	–	–	10	10	7100	0	*
	Cranwell ...	11.2	-14	S	3	F–	36	97	36	1	–	–	–	10	10	<150	1	*
3	Birmingham ...	09.1	-10	SSE	3	6_or	40	97	40	4	6	–	–	10	10	800	1	*
	Upper Heyford	11.0	-8	SE	3	m/F	41	97	41	4	5	–	–	7-8	9+	1300	1	*
4	Ross-on-Wye	08.1	-10	SSW	3	bc	46	85	43	6	5	–	–	4-6	4-6	1000	1	*
5	Hartland Point	06.7	+6	W	4	ir	46	92	44	6	5	2	–	7-8	10	1500	1	4
	Bristol ...	09.0	-10	S'W	3	2_o	47	85	43	6	5	7	–	2-3	2-3	1000	1	*
	Portland Bill ...	10.4	-4	SE	4	c-bc	49	92	47	8	5	–	–	7-8	7-8	4500	1	4
	Plymouth ...	08.5	-6	SW	5	rr	48	97	47	7	5	2	–	4-6	10	700	1	3
	The Lizard ...	08.6	+8	WNW	6	c/r	46	85	42	6	5	–	–	9+	9+	2000	1	4
	Scilly (St. Mary's)	08.8	+26	N	3	b-bc	46	75	40	8	8	–	–	2-3	2-3	1200	1	4
	Guernsey ...																	
6	Pembroke ...	07.2	+12	NW	5	bcq	44	92	42	7	8	–	–	4-6	4-6	1500	1	4
7	Holyhead (Valley)	05.6	+20	NW	5	rr	40	97	39	5	6	2	–	10	10	800	1	1
	Chester (Sealand)	07.2	-10	SSE	3	of	40	97	39	3	5	–	–	10	10	800		*
8	Manchester ...	08.3	-18	S'E	5	2_o	42	65	31	5	5	–	–	7-8	7-8	1500	1	*
10	Spurn Head ...	12.1	-4	S'E	4	o	39	97	39	3	5	–	–	10	10	1500	0	3
	Catterick (Sc.) ...	10.4	-14	SSE	4	F+	33	97	33	0	–	–	–	10	10	<150	1	*
	Tynemouth ...	08.6	-12	SSW	3	m	37	85	34	4	5	–	–	10	10	1500	0	3
11	St. Abbs Head	05.9	-6	S	3	2_o	35	85	32	4	5	–	–	4-6	4-6	2500	0	3
	Leuchars ...	04.3	-18	SE	3	2_o	38	85	35	5	5	7	8	4-6	10	2500	1	*
12	Renfrew (Abbotsl.)	03.2	-10	SE	1	6_o6_o	41	92	39	4	5	2	–	7-8	10	800	1	*
	Eskdalemuir ...	03.6	-18	SSE	4	o	39	85	36	4	5	–	–	10	10	300		*
	Point of Ayre ...	03.1	0	NW	4	rr	43	92	41	7	6	–	–	10	10	1000	1	4
13A	Tiree	99.9	+18	S'W	1	c/r	41	92	39	7	5	7	–	9	9+	1000	1	4
13B	Stornoway ...	96.4	+6	SW	3	ir_o	41	92	39	6	5	2	–	4-6	9+	1200	1	4
15	Dalwhinnie ...	03.0	-20	SE	5	ir_o	33	97	32	4	5	–	–	10	10	1500	1	*
	Aberdeen ...	05.0	-18	S'W	5	m	42	85	38	4	5	–	–	7-8	10	800	1	*
	Wick ...	01.9	-18	SSE	7	2_o	41	92	39	5	5	–	–	4-6	4-6	800	1	*
16	Sumburgh ...	03.9	-22	SSE	6	2_o	47	92	45	6	5	–	–	10	10	1200	0	4
17	Blacksod Point	03.8	+26	W'N	6	bc	44	85	40	8	8	–	–	4-6	4-6	2500	1	4
18	Malin Head ...	00.3	+18	SW'S	3	pr	41	75	34	8	8	–	1	2-3	2-3	1500	0	3
	Aldergrove ...	03.6	+18	SSW	3	c-bc	39	92	37	8	5	–	–	7-8	7-8	2700	1	*
19	Birr Castle ...	06.2	+30	SSE	1	b	37	92	35	8	–	–	–	0	0	–	1	*
20	Valentia Obsy.	08.6	+22	WNW	4	b-bc	46	65	35	8	2	–	–	2-3	2-3	2800	1	3
	Roches Point	08.3	+34	WNW	3	b-bc	43	92	41	8	3	–	1	1	2-3	1500	1	4

PAST 24 HOURS.

Weather. 7h.–13h. 17th (39)	13h.–18h. 17th (40)	18h. 17th to 1h. 18th (41)	1h.–7h. 18th (42)
obf	cir_ofbcm	cm_ow	ber_or_om
efcm	bcm$_o$mbcm	cm_oir$_o$	$cm_ir_or_o$
ofof	ofbcmfbmcf	$fm_or_om_o$	r_om_idof
pRpmcm$_o$	cm_oem_o	cm_ochm$_o$	em_obcm_o
bcfcmcm$_o$	$cbcm_ow$	cm_oir_o	$cm_or_or_o$
cffcm	cmcf	cffw	cm_oid_om
cfbcm$_o$	$cbcm_ocm$	bbccomf	$cm_id_or_om_o$
cm_ocm	$cmcm_o$	cm_o	cid_om_o
cmbcm	$cmcm_o$	cm_owbcm_o	bcmcir$_o$c
cm_oz_o	bcz_o	cz_ow	cir_or_o
ofecm	cmcfof	cm_obcm_o	bccir$_o$c
F	Fid_oF	bcfcrf	$bm_ob\,cm_ox$
fd_o	$foirg_m$	or_oc	cbfx
ofef	oFcfoF	cm_or_o	cir_om_ox
omfcm	cm_orc	crrc	cbx
bcidoirc	circ	bcbbcb	bc
ofdodocm	cm_oir_o	bcm$_o$rrm$_o$bc$_o$	bm_oxbcm_ox
c	c	prc	c
cm_oir_o	cm_ocrr	++bcm$_o$	cm_ox
cpro0	irrrc	ebc	bc
cr_or_o	cr_or_ocbc	bcc	cbch
cprmoq	cpr_obcq	bc	bcc
cm_obcc	$cr_or_om_o$	cr_or_obcb	b
dodomo	omf	offft	bm_ox
ffom$_o$	cm_om	crrbm$_o$	bmm_obx
om	of	cm_o	cm_o
ofe	ofe	$of_or_or_of$	of_obmbm_o
om	om	$om_or_or_o$	or_or_obm
cm_ocf	cbcm	cm_or_oc	bcb
bm_ocm	cm_ocm	$cir_om_cm_o$	$bcbbm_ox$
cmcm	cm_ocir_om	$er_of_op_or_om_o$	$bcm_op_or_obcx$
cf		orr	cbeb
c	crr	++b	b
cm_or_o	$cr_or_om_oc$	bbcr+bc	bc
bcc$_i$r$_o$c	cir_om_o	crrm$_o$cbc	bccp$_i$c
oc	cirsiro		oirsc
cz	om	omgiro	omcbcbm
bcm$_o$	bcm$_o$	to$_o$cm	bcb
cm_o	cz_o	$cz_or_or_o$	cr_oz_oc
r	bc	bc	+
r	pr	pr	b
$cm_ocr_or_oc$	$r_or_om_oc$	cbcb	bxbcxcx
r	r	•	c
pr	bc	pr	pr
r	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 18th December 1943

Districts	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Freshening south wind becoming strong locally; veering southwest and decreasing; occasional rain at first; mainly fair later, rather mild.

Fresh or strong south wind, gale at exposed places veering southwest to west and decreasing; rain at first; bright intervals and showers later; rather mild.

Wind south, strong to gale, severe gale locally veering southwest and decreasing; rain at first; bright intervals and showers of rain and hail later; rather cold.

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

AS 12-15.

GENERAL INFERENCE

A very deep depression to northwest of Ireland is moving northnortheast; and an associated trough will move eastwards across the British Isles. Rain will spread eastwards across the British Isles followed by bright intervals and showers; there will be southerly gales at exposed places.

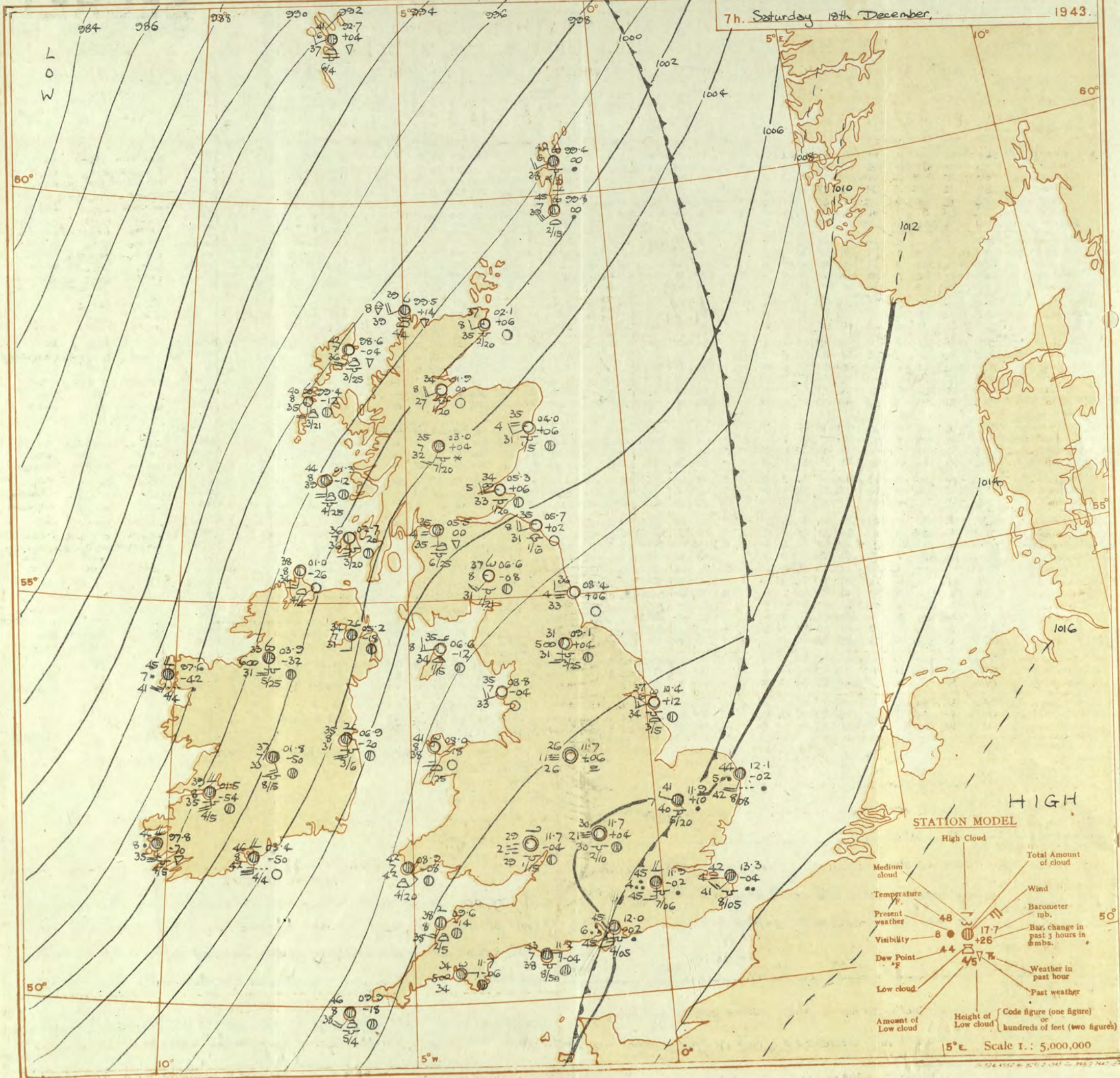
FURTHER OUTLOOK

Unsettled and rather mild; further rain in most districts. ♦ Gale warning in operation in all districts except 1, 2 and 3. Times of issue 0150h 18 Dec. 0730h. 18 Dec. 0820h 18th Dec 1943.

Forecasts issued at 1030.

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

7h. Saturday 18th December, 1943.



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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Saturday 18th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Saturday 18th December 1943 — No. 29976

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon ...	290	12·2	+6	S	3	ir_0	46	85	43	6	5	7	-	9	10	1200
	S. Farnborough	226	11·1	+2	S'E	3	r_0r_0	45	92	43	5	5	-	-	10	10	800
	Boscombe Down	417	11·2	+6	W	2	c	42	97	41	6	5	-	-	4-6	9+	1000
	Thorney Island	10	12·2	+2	S'W	3	r_0r_0	46	92	44	6	5	-	-	7-8	10	900
	Lympne ...	341	13·7	-2	SW'S	4	c/f	44	97	43	4	5	-	-	10	10	1000
	Manston ...	154	13·7	-2	SW'S	4	ir_0	43	92	41	3	5	-	-	10	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	11·6	-6	S'W	4	Z_0	42	97	41	5	5	-	-	2-3	2-3	2000
	Gorleston ...	5	12·8	-2	S'W	3	Z_0	43	92	41	5	5	-	-	7-8	7-8	1000
	Mildenhall ...	15	11·0	-2	S'E	4	c-bc	46	97	43	7	5	-	-	7-8	7-8	2500
	Cranwell ...	203	08·6	-4	SSE	3	tf	41	97	41	3	5	-	-	9+	9+	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·2	+6	SW'S	1	ir_0	42	92	40	5	5	-	-	7-8	9+	1300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·0	+10	NW	2	b	43	75	36	8	1	-	-	1	1	4000
	Bristol ...	209	11·4	-14	WNW	2	Z_0	37	97	37	5	-	4	-	2-3	2-3	-
	Portland Bill ...	32	11·2	+4	S	4	c	46	92	44	7	5	-	-	10	10	4500
	Plymouth ...	86	12·4	+10	-	0	Z_0	37	97	36	6	-	7	-	0	Tr	-
	The Lizard ...	240	11·9	+10	N	2	bc	41	85	35	7	4	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	12·0	+6	-	0	c-bc	42	85	37	8	5	4	-	4-6	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	12·0	+8	-	0	bc	45	75	37	8	2	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	09·4	+14	WSW	2	b	42	75	36	8	1	-	-	1	1	2500
	Chester (Sealand)	16	09·1	+10	-	0	Z_0	34	92	32	6	-	-	-	0	0	-
8	Manchester ...	230	09·6	+22	SSW	2	m	35	97	35	4	-	-	-	0	0	-
10	Spurn Head ...	29	09·7	0	SSE	4	c	43	92	41	6	7	3	-	4-6	9	2500
	Catterick (Sc) ...	192	08·1	-10	SSW	1	f-	36	97	36	3	-	-	-	10	10	<150
	Tynemouth ...	108	07·8	0	SW	3	r_0r_0	38	97	38	5	-	2	-	10	10	1500
11	St. Abbs Head	280	05·12	+2	SW	3	c/f	39	85	34	7	5	-	-	10	10	2500
	Leuchars ...	31	04·3	+10	WSW	3	Z_0	36	92	34	5	5	3	-	2-3	4-6	2000
12	Renfrew (Abbotsl.)	19	05·0	+8	SW	1	pr	36	92	34	6	8	4	-	4-6	4-6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	06·6	+12	NW'N	4	b	42	85	37	8	1	-	-	Tr	Tr	2500
13A	Tiree	44	02·5	+10	SW	2	bc	42	85	39	8	3	-	-	4-6	4-6	2500
13B	Stornoway ...	12	98·9	+6	SSW	3	bc	41	75	35	7	8	-	-	4-6	4-6	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	02·6	+4	WSW	2	c/r	39	85	36	5	-	2	-	0	19	-
	Wick ...	114	01·5	+2	S	2	c	40	92	38	8	5	-	8	2-3	9+	2000
16	Sumburgh ...	15	00·5	-14	S'E	6	r_0r_0	46	97	46	5	5	-	-	10	10	800
17	Blacksod Point	18	04·8	-6	SW'W	3	b-bc	44	75	37	8	8	-	-	2-3	2-3	2500
18	Malin Head ...	84	08·7	+14	SW	3	b	41	75	34	8	8	-	-	1	1	1500
	Aldergrove ...	294	07·4	+8	S	1	b	34	92	32	8	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	b-bc/pr	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·3	-14	S'E	4	b	41	85	37	8	8	-	-	2-3	2-3	3500
	Roches Point	22	10·5	+2	WNW	1	b	41	92	39	8	7	-	-	0	1	-

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·7	+2	-	0	r_0r_0	43	97	43	4	5	-	-	10	10	900	1	*
	Croydon ...	11·9	-2	S	3	r+	45	97	45	4	5	2	-	9+	10	600	1	*
	S. Farnborough	11·4	-4	ENE	1	df	42	97	41	3	5	7	-	4-6	9+	1400	1	*
	Boscombe Down	11·9	-2	NE'N	1	Z_0	35	97	35	6	5	3	-	Tr	4-6	1000	1	*
	Thorney Island	12·0	-2	S	3	r+	45	97	45	6	5	-	-	4-6	10	500	1	*
	Lympne ...	13·5	+2	SSW	4	df	43	97	43	3	5	-	-	10	10	100	1	4
	Manston ...	13·3	-4	SW'S	3	c/r	42	97	41	4	5	-	-	10	10	500	1	*
2	Shoeburyness ...	13·7	-2	S	3	Z_0	44	92	42	5	5	-	-	10	10	1000	1	*
	Felixstowe ...	11·5	+2	S	4	c/r	43	85	39	6	5	-	-	10	10	1500	1	4
	Gorleston ...	12·1	-2	SSW	4	r_0r_0	44	85	42	5	6	-	-	10	10	800	1	4
	Mildenhall ...	11·9	+10	W'N	1	c-bc	41	97	40	7	5	-	-	7-8	7-8	2000	1	*
	Cranwell ...	11·1	+6	WSW	3	m	32	97	31	4	5	-	-	2-3	2-3	4500	1	*
3	Birmingham ...	11·3	0	SSW	1	bf*	33	97	32	2	-	7	-	Tr	Tr	-	1	*
	Upper Heyford	11·7	+4	-	0	b-bc f+	30	97	30	2	5	-	-	1	2-3	1000	3	*
4	Ross-on-Wye	11·7	-4	-	0	bif	29	97	29	2	5	-	1	Tr	Tr	1500	1	*
5	Hartland Point	09·6	-14	SSW	3	bc	38	86	35	8	2	-	5	1	4-6	2500	1	3
	Bristol ...	11·8	-6	S	1	Z_0	28	97	28	5	5	3	-	Tr	4-6	3000	3	4
	Portland Bill ...	11·2	-4	E	3	C	43	85	38	7	5	-	-	10	10	5000	1	
	Plymouth ...	11·7	-6	E	1	Z_0	34	97	34	5	-	3	-	0	9	-	1	1
	The Lizard ...	10·3	-16	SE	2	bc	45	75	38	7	8	6	-	4-6	4-6	2500	0	4
	Scilly (St. Mary's)	09·9	-18	SW	4	c-bc	46	75	38	8	8	-	-	7-8	7-8	1500	1	4
	Guernsey ...																	
6	Pembroke ...	08·9	-8	SE	2	c-bc	42	97	42	7	2	-	-	7-8	7-8	2000	1	2
7	Holyhead (Valley)	08·0	-18	SSE	3	b	41	85	38	8	1	3	-	Tr	1	2500	1	2
	Chester (Sealand)	09·5	-2	SSE	1	Z_0	33	92	31	5	-	-	-	0	0	-	3	*
8	Manchester ...	10·3	0	S	3	b	33	92	31	7	-	-	-	0	0	-	3	*
10	Spurn Head ...	10·4	+12	SW	3	b-bc	37	85	34	6	7	3	-	2-3	2-3	2500	1	3
	Catterick (Sc) ...	09·1	+4	S	3	Z_0	31	97	31	5	5	-	-	2-3	2-3	2500	3	*
	Tynemouth ...	08·4	+6	W	2	m	36	85	33	4	-	-	-	0	0	-	1	3
11	St. Abbs Head	05·7	+2	SW	4	b	35	85	31	8	4	-	-	Tr	Tr	4000	0	3
	Leuchars ...	05·3	+6	WSW	3	Z_0	34	97	33	5	5	-	-	Tr	Tr	2000	3	*
12	Renfrew (Abbotsl.)	05·5	0	S	1	m	35	97	35	4	8	-	-	9	9	2500	1	*
	Eskdalemuir ...	06·6	-8	SW'S	3	b	37	75	31	8	5	5	-	Tr	Tr	2100	5	*
	Point of Ayre ...	06·6	-12	W'S	3	b-bc	35	97	34	8	2	-	8	Tr	2-3	1500	0	2
13A	Tiree	01·3	-12	S	4	bc	44	85	39	8	8	-	-	4-6	4-6	2500	1	3
13B	Stornoway ...	98·6	-4	SSW	4	b-bc	42	75	36	7	8	-	-	2-3	2-3	2500	1	2
15	Dalwhinnie ...	03·0	+4	SSW	3	c	35	85	32	7	5	-	-	9+	9+	2000	3	*
	Aberdeen † ...	04·0	+6	SW	2	m	35	85	31	4	5	-	-	Tr	Tr	2500	1	2
	Wick ...	02·1	+6	SW	2	b	37	92	35	8	5	-	-	1	1	2000	1	*
16	Sumburgh ...	99·8	0	SW'S	5	c-bc	45	75	39	7	1	7	8	1	7-8	1500	1	4
17	Blacksod Point	97·6	-42	SSW	5	ir_0	45	85	41	7	6	2	-	4-6	10	1500	1	4
18	Malin Head ...	01·0	-26	S'W	3	bc	38	85	34	8	1	-	-	4-6	4-6	1500	1	3
	Aldergrove ...	05·2	-18	SE	2	c	48	85	41	7	-	-	7	0	9+	-	5	*
19	Birr Castle ...	01·8	-50	SSE	3	a	37	85	33	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	97·8	-70	S'E	6	ir_0	46	65	35	8	5	2	-	4-6	10	2300	1	4
	Roches Point	03·4	-50	S	7	c	46	85	41	8	6	2	-	4-6	10	1500	1	5

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 17th Hrs.
		(33)	(34)	(35)	(36)	(37)	(38)
1	London (Kew)	44	43	37	Tr	3	0·0
	Croydon ...	47	45	43	Tr	3	1·5
	S. Farnborough	43	41	34	-	0·5	0·0
	Boscombe Down	47	35	30	Tr	5	6·0
	Thorney Island	48	37	39	-	6	*
	Lympne ...	43	39	36	-	0·1	0·3
	Manston ...	42	39	37	-	Tr	0·0
2	Shoeburyness ...	43	42	35	-	Tr	0·6
	Felixstowe ...	44	39	35	-	0·2	0·8
	Gorleston ...	43	38	32	-	0·5	0·0
	Mildenhall ...	42	40	34	-	0·5	0·0
	Cranwell ...	36	29	25	Tr	0·3	0·0
3	Birmingham ...	40	33	19	0·2	4	0·0
	Upper Heyford	41	30	25	-	2	
4	Ross-on-Wye	47	29	19	1	4	0
5	Hartland Point	49	37	34	3	0·3	0·1
	Bristol ...	49	27	21	Tr	5	0·5
	Portland Bill ...	50	40	*	-	4	*
	Plymouth ...	51	33	27	3	1	0·0
	The Lizard ...	50	40	*	3	Tr	0·0
	Scilly (St. Mary's)	52	42	*	2	Tr	0·0
	Guernsey ...						
6	Pembroke ...	50	36	*	4	-	0·0
7	Holyhead (Valley)	48	34	29	10	4	*
	Chester (Sealand)	40	27	22	-	3	0·0
8	Manchester ...	42	33	27	Tr	5	*
10	Spurn Head ...	40	37	*	-	1	0·0
	Catterick (Sc) ...	34	29	23	Tr	2	0·0
	Tynemouth ...	37	35	30	-	1	*
11	St. Abbs Head	35	34	*	-	0·2	*
	Leuchars ...	39	33		-	0·1	
12	Renfrew (Abbotsl.)	41	33	21	2	2	0·0
	Eskdalemuir ...	39	32	29	Tr	0·2	0·0
	Point of Ayre ...	44	35	*	5	1	0·0
13A	Tiree	47	39	35	12	0·5	0·6
13B	Stornoway ...	49	35	27	Tr	0·1	0·0
15	Dalwhinnie ...	35	33	27	-	3	0·0
	Aberdeen † ...	42	34	15	-	0·2	0·0
	Wick ...	41	36		-	1	*
16	Sumburgh ...	47	43	41	-	4	0·0
17	Blacksod Point	46	42	*	-	7	*
18	Malin Head ...	47	36		2	0·3	0·0
	Aldergrove ...	47	32	26	9	-	0·0
19	Birr Castle ...	48	33	29	7	-	0·5
20	Valentia Obsy.	47	36	31	5	1	2·3
	Roches Point	50	37	*	4	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th December				18h. G.M.T.				01h. G.M.T. 18th December				07h. G.M.T.			
IIH	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	57	05645	47625	5-	05548	47628		5-	22668	18468		54	05663	20313	
115	54	02863	12424	55	02854	14425		54	02844	20465		34	88844	20486	
203	5-	02		5-	62										
206	58	05663	12414	57	05655	16317		57	01751	20324		40	01851	20401	
210	03	05690	07113	53	05654	47424		52	02764	12268		60	00990	18210	
219	62	62635	47868	5-	61746	23466						27	01853	17413	
230	5-	21648	10328	62	64646	51568		9-	81856	18586		3-	01854	00084	
245	52	05646	16328	52	08446	49428		57	05643	24367		50	05651	22111	
260								50	05			00	05		
277	5-	05528	45628					50	01873	22363		10	01812	18312	
279	57	05563	08324	57	22654	57566		80	01752	20362		50	01851	20211	
285												4	01743	28413	
288	5-	05638	14328	00	05630	15220		5-	62568	19468		00	00890	17800	
575	52	62735	20268	33	01753	20115		40	01761	16211		57	05655	16427	
801	52	08437	43427	5-	08438	14528		26	02755	22365		00	00790	20300	
321	--	44109	12149	02	43328	14348		5-	22618	24368		00	04203	30820	
299				5-	05			5-	05			*	05642	26302	
292	--	44209	12449	--	44209	12349		5-	62438	16268		99	47390	20360	
310	**	46										50	05647		
614				--	46			5-	05			00	47		

13h. G.M.T. 17th December				18h. G.M.T.				01h. G.M.T. 18th December				07h. G.M.T.			
IIH	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	57	02845	48458	52	62546	02368		10	01861	00041		23	01762	00004	
334				--	02646	26317						--	0557	00002	
340	--	46109	12349	5-	43335	12448		04	01890	00161		04	05690	14302	
136	5-	41428	16248	5-	43390	16148						53	05552	24163	
836	50	05										--	46		
350	--	48109	10149	5-	46148	14248		02	62448	14368		50	08454	24265	
368	57	05645	16326	57	61668	18268		00	05590	18160		53	05554	00014	
379	--	46109	14349	--	67109	14449		59	22751	26163					
390	--	46109	16249					5-	08448	14228		6-	58438	00068	
382	5-	43337	12247	5-	43345	14248		97	22945	23268		53	47162	00044	
438				5-	05			5-	05656	21426		5-	05		
430	07	05		04	05			5-	51			5-	62		
409	77	02753	16468	57	22644	26167		50	01753	30112		04	02890	13315	

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 18th December
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 1·2 12(13h. Min. Time 0·1 0(6h. 18th
Kew ...	cbf	cifbcm	cmb16m	
Croydon ...	qfdm	bcmb mc	cmb16m cirqdm	
Greenwich ...	obcf	fc		
Camden Square	o	b	*	
Kensington ...	qfbcm	cm	*	
Hampstead ...	of	of	ofr	

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	44	43	37	Tr	3	0·0	*	*
Croydon ...	47	45	43	Tr	3	1·5	*	*
Greenwich ...	46	45	38	-	3·6	0·0	92	85
Westminster ...	47	45	39	2·3	*	*	97	93
Regents Park ...	47	34	31	-	3·5	*	96	89
Camden Square	46	35	30	-	3·6	*	*	88
Kensington ...	45	43	36	-	3·2	*	93	96
Hampstead ...	46	41	36	-	2·8	*	*	98

SECRET

Page 1

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

BRITISH SECTION

Sunday 12 to 12 December 1943

No. 22277

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	06.8	-38	S	3	o/d	45		35	5	5	–	–	10	10	300
	Croydon ...	07.4	-30	S'E	3	r,r	46	92	44	5	5	2	–	7-8	10	800
	S. Farnborough	06.6	-34	SSE	4	o/d	45	97	44	6	5	–	–	10	10	500
	Boscombe Down	07.1	-36	S	3	oF+	39	97	39	1	5	–	–	10	10	200
	Thorney Island	08.3	-26	S'W	4	ir	46	97	45	6	5	–	–	10	10	400
	Lympne ...	08.5	-34	SSW	5	df	43	97	43	2	–	2	–	10	10	<150
	Manston ...	11.3	-22	S'W	5	z_o	43	92	41	6	6	2	–	9+	10	500
2	Shoeburyness ...	09.3	-22	S	4	id_o	44	92	42	6	5	–	–	10	10	900
	Felixstowe ...	10.2	-10	S	5	id_o	43	97	42	5	5	–	–	10	10	800
	Gorleston ...	09.9	-34	S	6	z_o	43	92	41	5	6	–	–	10	10	800
	Mildenhall ...	06.8	-42	S'E	4	id_o	45	97	44	6	5	–	–	10	10	600
	Cranwell ...	05.6	-34	S'E	3	oft	35	97	35	2	–	–	–	10	10	<150
3	Birmingham ...	05.1	-50	SSE	3	z_o	36	85	33	5	5	2	–	7-8	10	2500
	Upper Heyford	05.8	-66	S'E	2	df	37	97	37	1	–	–	–	10	10	<150
4	Ross-on-Wye	04.5	-54	SSW	3	z_o	36	92	34	6	6	1	–	9	10	1500
5	Hartland Point															
	Bristol ...	06.2	-42	S	2	z_o	38	92	36	6	5	–	–	10	10	600
	Portland Bill ...	07.2	-30	S	4	c	48	92	46	8	5	–	–	10	10	4500
	Plymouth ...	05.7	-40	SSW	5	iR	47	85	43	6	5	–	–	4-6	10	1000
	The Lizard ...	04.1	-36	S	7	f-	47	97	47	5	5	–	–	10	10	1000
	Scilly (St. Mary's)	99.6	-60	SW	7	dd	48	97	48	5	5	–	–	10	10	1500
	Guernsey ...															
6	Pembroke ...	98.3	-48	S'W	8	$r_o r_o$	46	85	43	4	5	–	–	10	10	600
7	Holyhead (Valley)	98.4	-62	SE'S	7	ir_o	43	75	35	8	5	7	–	2-3	10	3000
	Chester (Sealand)	03.4	-50	SE	3	r	36	85	33	4	5	–	–	10	10	2000
8	Manchester ...	04.1	-50	S'E	4	z_o	37	85	33	6	5	7	–	7-8	10	3000
10	Spurn Head ...	06.6	-40	SSE	4	z_o	40	97	39	5	7	–	–	9+	9+	2500
	Catterick (Sc.)...	04.8	-36	SSE	3	f	33	97	33	2	–	–	–	10	10	<150
	Tynemouth ...	04.3	-40	S	4	z_o	39	85	34	5	–	3	–	0	7-8	–
11	St. Abbs Head	01.0	-46	S	3	c	37	85	32	8	8	4	–	7-8	9+	2000
	Leuchars ...	99.5	-54	SE	2	z_o	36	92	34	6	5	7	–	7-8	10	5000
12	Renfrew (Abbotsl.)	98.4	-58	ESE	3	c/r	40	85	37	6	5	2	–	7-8	10	1200
	Eskdalemuir ...	00.1	-50	SSE	3	c	34	92	33	6	5	1	–	10	10	900
	Point of Ayre...	98.3	-66	SSW	6	rr	43	85	38	8	–	2	–	10	10	1800
13A	Tiree	99.8	-78	SSE	6	ir_o	44	85	40	7	5	2	–	4-6	10	1500
13B	Stornoway ...	00.8	-52	SSE	7	c	44	65	34	8	2	7	9	4-6	9+	1800
15	Dalwhinnie ...	96.5	-52	S	5	c	36	75	29	8	5	2	–	4-6	10	2000
	Aberdeen ...	99.9	-36	S'W	2	m	35	97	34	4	5	–	–	4-6	9+	1500
	Wick ...	98.1	-34	SSW	3	c	41	75	35	8	5	2	–	Tr	9	2000
16	Sumburgh ...	98.2	-18	S	4	bc	44	75	36	9	2	–	–	4-6	4-6	2000
17	Blacksod Point	76.5	-126	S	7	ir	47	97	47	7	6	2	–	4-6	10	800
18	Malin Head ...	85.8	-112	SE	5	s	38	85	34	7	–	2	–	10	10	1500
	Aldergrove ...	91.4	-88	SSE	5	$r_o r_o$	40	85	37	5	6	2	–	4-6	10	600
19	Birr Castle ...	85.0	-110	S	6	c	43	92	41	7	6	2	–	7-8	10	800
20	Valentia Obsy.	88.2	-30	WSW	7	pr	51	65	39	8	3	–	–	9+	9+	2300
	Roches Point	89.3	-78	S	8	dr	47	97	47	6	5	–	–	10	10	450

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

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)
	29.9	-50	SSW	6	ir$_o$	45	92	43	5	5	–	–	10	10	900	1	*
	01.0	-46	S	5	r$_o$r$_o$	46	85	43	6	6	2	–	7-8	10	800	1	*
	00.5	-46	SSE	6	r$_o$r$_o$	45	92	43	6	5	–	–	10	10	800	1	*
	99.8	-38	S'W	6	r$_o$r$_o$	45	97	45	5	6	2	–	9+	10	300	1	*
	03.1	-32	S'W	6	r$_o$r$_o$	46	92	44	5	5	–	–	10	10	1000	1	*
	05.2	-28	S'W	6	ir$_o$	45	92	43	5	–	2	–	10	10	1200	1	6
	06.1	-20	SSW	6	rr	45	92	43	5	6	2	–	4-6	10	1000	1	*
	03.9	-24	SSW	5	z$_o$	45	85	41	6	5	–	–	10	10	1200	1	*
	04.3	-30	S'W	6	rr	44	92	42	6	6	2	–	7-8	10	2500	1	5
	03.0	-42	S'E	6	dd	45	85	40	6	6	–	–	10	10	600	1	5
	99.3	-52	S'E	5	c/r	44	85	41	6	6	2	–	10	10	1000	1	*
	95.2	-66	S'W	5	ir$_o$	40	97	40	4	5	–	–	10	10	1000	1	*
	93.9	-70	S	5	ir$_o$	42	92	40	7	6	–	–	10	10	800	1	*
	97.6	-60	S	6	r$_o$r$_o$	44	92	42	5	6	–	–	4-6	10	600	1	*
	93.8	-66	S	7	id$_o$	47	92	43	7	5	–	–	9+	9+	1000	1	*
	95.5	0	WSW	5	c/r	50	92	48	7	8	4	–	7-8	9+	1500	1	5
	97.7	-38	S'W	6	ir$_o$	48	97	47	6	6	2	–	4-6	10	1100	1	*
	00.6	-26	SE	5	rf	47	92	46	3	5	–	–	10	10	800	1	5
	99.1	-26	WSW	6	ir/c/pr	53	97	52	6	8	2	–	7-8	10	1200	1	4
	00.5	+20	WSW	7	c/pr	53	85	50	6	5	–	–	10	10	1000	1	6
	99.0	+22	WNW	6	c	53	85	48	7	5	2	–	9+	9+	1200	1	5
	94.6	+20	W	8	bc	51	75	43	6	5	–	–	10	10	2000	1	5
	88.1	+14	WSW	8	c/sc	47	85	42	6	8	–	–	4-6	4-6	1000	1	7
	91.4	-66	S	4	d	41	85	38	7	8	–	–	7-8	7-8	2000	1	*
	90.8	-90	S	6	r$_o$r$_o$	41	92	39	5	6	2	–	1	10	500	1	*
	96.9	-28	S'W	6	r$_o$r$_o$	41	97	41	5	8	–	–	10	10	1500	1	4
	91.0	-100	SSE	5	s$_o$s$_o$	34	97	34	2	–	–	–	10	10	<150	1	*
	91.0	-60	S	6	rr	37	85	34	5	6	–	–	10	10	1500	1	4
	86.9	-72	S	6	rs	35	85	32	5	5	–	–	10	10	1500	1	5
	86.5	-84	SE	5	rs	36	92	34	6	5	–	–	10	10	3300	1	*
	81.2	-106	ESE	4	rs	37	85	33	5	5	2	–	9	10	1600	1	*
	84.5	-100	SE	5	ss	33	97	32	6	5	–	–	10	10	500	8	*
	82.4	-56	SSW	7	RR	44	85	41	8	9	–	1	9+	9+	1800	1	5
	72.1	-98	SE	5	rr	40	97	40	6	6	2	–	7-8	10	800	2	7
	76.3	-86	SE	8	ir$_o$	42	65	32	7	6	2	–	2-3	10	1200	1	5
	82.0	-126	NE'E	8	s/s	31	92	30	0	–	–	–	7-8	7-8	<150	8	*
	87.4	-80	SSE	5	c	43	65	34	7	5	2	–	7-8	10	1500	1	4
	86.3	-58	SSE	7	z$_o$	43	75	37	6	6	2	–	7-8	10	800	1	*
	91.1	-50	SSE	6	bc	44	75	37	8	2	–	5	4-6	4-6	2500	1	3
	83.0	+58	WS	8	bc	46	65	35	7	8	–	–	2-3	4-6	1500	2	7
	74.9	-26	W	6	ir	45	75	37	7	6	–	–	7-8	7-8	800	2	5
	81.1	-18	SW	5	bc/r	43	85	39	7	5	–	–	2-3	2-3	1500	1	*
	88.3	+40	SSW	2	bbc	44	75	36	7	3	–	–	2-3	2-3	1500	1	*
	93.8	+32	W'S	7	pr	48	75	40	7	9	–	–	10	10	2200	1	7
	93.5	+28	W'S	5	bc	48	92	46	8	5	–	–	4-6	4-6	1500	1	7

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 18th (39)	Weather. 13h.—18h. 18th (40)	Weather. 18h. 18th to 1h. 19th (41)	Weather. 1h.—7h. 19th (42)
	Fd$_o$d$_o$cm$_o$	cr$_o$r$_o$m$_o$	cr$_o$ir$_o$m$_o$	crrm$_o$
	cr$_o$rcr$_o$m	cr$_o$r$_o$mo	cd$_o$d$_o$m$_o$r$_o$	cm$_o$rr
	cid$_o$ o$_o$d$_o$f$_o$m	cmid$_o$r$_o$	cr$_o$rcR$_o$m$_o$r$_o$m$_o$	
	bcm$_o$d$_o$d$_o$f	Fd$_o$r$_o$rm$_o$	cr$_o$m$_o$cr$_o$m$_o$cr$_o$m$_o$r$_o$form$_o$	
	cm$_o$r$_o$r$_o$cm$_o$	cmoir$_o$	crrm$_o$	cm$_o$RRrrr
	om$_o$d$_o$d$_o$f$_o$m$_o$	od$_o$d$_o$frrm$_o$	od$_o$d$_o$d$_o$m$_o$	r$_o$rm$_o$r$_o$f$_o$
	cid$_o$m$_o$	emd$_o$r$_o$r$_o$id$_o$	cm$_o$dd	cm$_o$rr
	cid$_o$m$_o$	crrcm$_o$	cr$_o$r$_o$	crrm$_o$
	cir$_o$cid$_o$m$_o$	cm$_o$crrm$_o$	cir$_o$cm$_o$	cir$_o$cr$_o$
	cd$_o$z$_o$	cmidorz$_o$	m$_o$r$_o$r$_o$m$_o$	crrz$_o$
	cid$_o$mg	cid$_o$m$_o$cir	m$_o$cd$_o$d$_o$e	cir$_o$crr
	bcm$_o$mcf	d$_o$d$_o$f$_o$r$_o$r$_o$m$_o$	cm$_o$	crrm$_o$e
	fbzc	ofirir$_o$	cir$_o$pr	prrc
	bfxbcmod	df$_o$d$_o$d$_o$f$_o$r$_o$r$_o$cr$_o$r$_o$m$_o$		cr$_o$r$_o$rrm$_o$
	bcffc	cerdr$_o$q	d$_o$ zqc	rrc
		cr$_o$r$_o$c	cirrrc	crrc
	cm$_o$xcm$_o$m$_o$	cm$_o$r$_o$r$_o$	cz$_o$pr$_o$z$_o$m$_o$	cm$_o$rr$_o$r$_o$
	c	orrfr	orr	orr
	cm$_o$ir$_o$	crrddirc	m$_o$r$_o$r$_o$	rr$_o$r$_o$c
	cpr	rrpre	cprr	orro
	r$_o$r$_o$dd	od$_o$d$_o$c	crr	crrc
	cir$_o$c	cr$_o$r$_o$m$_o$q	crrq	rrcq
	cir$_o$rr	crrRRm$_o$	cb, cm$_o$c	corrr$_o$r$_o$
	cm	cr$_o$r$_o$d$_o$m$_o$	bccm$_o$	cr$_o$r$_o$
	bm$_o$xcm$_o$	rs r$_o$r$_o$r$_o$m$_o$	r$_o$r$_o$cm$_o$	cm$_o$ir$_o$
	cm$_o$	og r$_o$r$_o$	o	o
	cfoF	orr$_o$s$_o$	cm$_o$pr	cpr$_o$m$_o$
	bcmm$_o$	orrorrq	orrqbm$_o$c	bcc
	cir$_o$rrm$_o$	cm$_o$r$_o$cir$_o$cb	bebbc	
	bm$_o$xcm$_o$	cir$_o$r$_o$sm$_o$	m$_o$cr$_o$r$_o$m$_o$c	bcpr$_o$
	cm$_o$ir$_o$m$_o$	cir$_o$sm$_o$	cr$_o$s$_o$ir$_o$bc	bccpr$_o$
	cm$_o$	cmoss	cbc	ssrrc
	bccrr	crrc	cbb ccq	cd$_o$b
	c	cir$_o$rrm$_o$	cr$_o$bcpr$_o$	cpr$_o$cpr$_o$
	cpr$_o$cbcc	ccycrm$_o$	cR$_o$RRrrr$_o$	cRrrrm$_o$
	co	oss		ossirs
	bmxbccm	cmc	orrc	cbcprbq
	bbcc	ccmo	cr$_o$r$_o$m$_o$bc	bccpr$_o$cpr
	cbc	bccbc	prr$_o$c	cr$_o$,bc
	r	r	pr	pr
	s	s	pr	tLr
	ccirm$_o$r$_o$r$_o$	r$_o$r$_o$r$_o$RRrr	bcb	bccprpr$_o$
	r	pr		pr
	r	pr	pr	pr
	r	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 19th December, 1943.

Districts	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light or moderate westerly winds; cloudy, with occasional rain, becoming fair tomorrow; rather cold, with frost at night.

Light or moderate westerly winds; cloudy at first, becoming fair this evening, rather cold, with ground frost and local air frost tonight.

Moderate west to northwest winds; showers and occasional rain; rather cold.

Moderate or fresh westerly winds; strong to gale at first in northwest; rather frequent thundery showers of rain and hail, with snow on high ground, and scattered thunderstorms; showers less frequent in east; cold.

Severe westerly gales, moderating slowly; frequent thundery showers of rain and hail, with snow on high ground, and scattered thunderstorms; showers less frequent in East Scotland; very cold.

16 Orkneys and Shetlands	As 11-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate or fresh westerly winds, gale at first in north; rather frequent thundery showers of rain and hail, with snow on high ground, and scattered thunderstorms; very cold.

GENERAL INFERENCE

A deep depression North of Scotland will move slowly north. A small depression over Kent is moving quickly eastnortheast. There will be occasional rain in extreme south. In most districts, but especially in west and north, there will be thundery showers of rain and hail, with snow on high ground, and scattered thunderstorms.

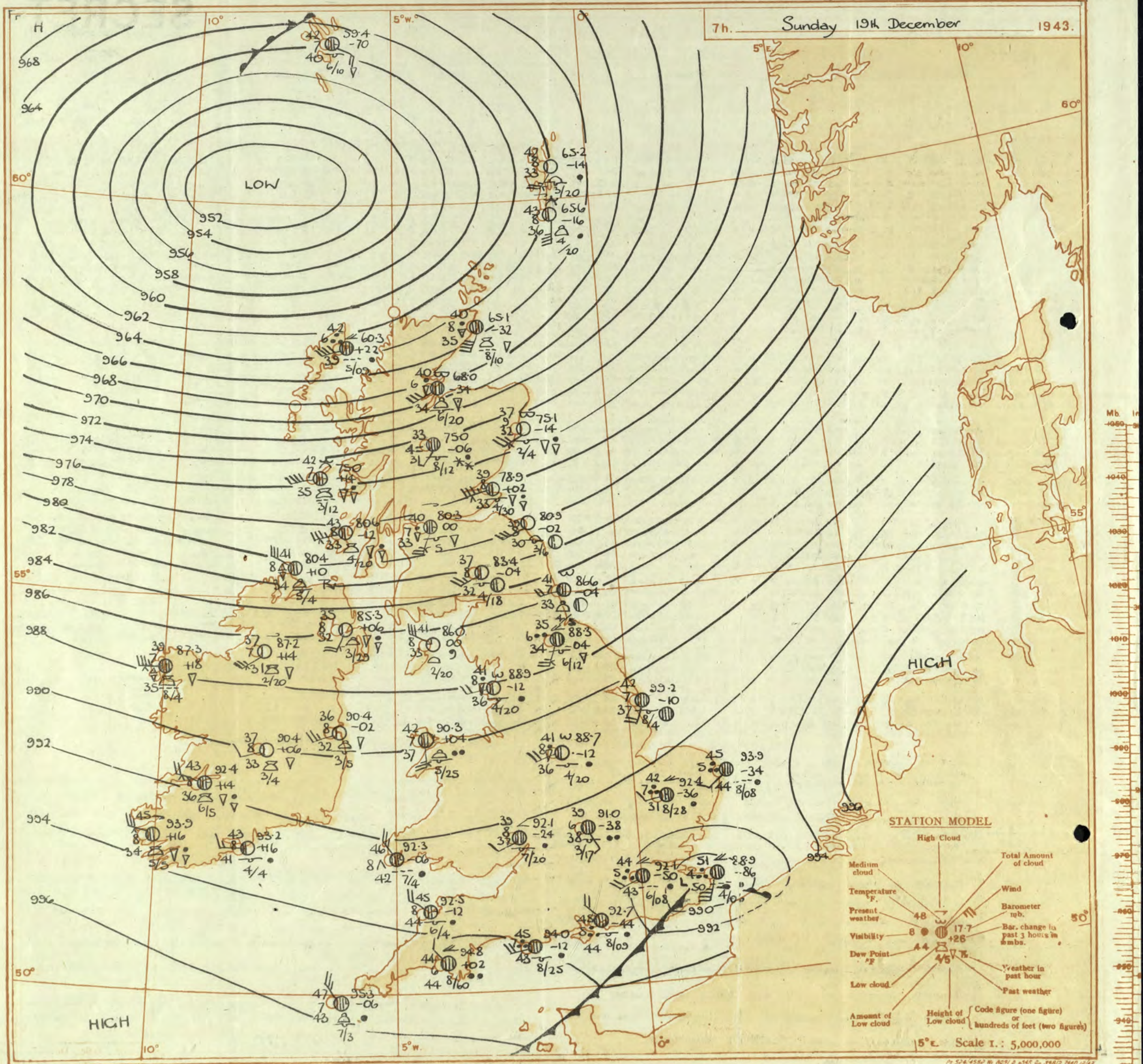
FURTHER OUTLOOK

Showery conditions persisting. Gale warnings in operation in districts 6 to 18 and 20. Severe in 13B, 18 & 20. Times of issue 0350, 0930 on 11th, 0330 on 15th, 1600 on 16th, 0450, 0730, 0820, 1640, 1700, 1750, on 18th.

Forecasts issued at 1030

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

7h. Sunday 19th December 1943.



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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Sunday 19th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Sunday 19th December 1943

No. 29977

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

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	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon	290	01·0	+14	SSW	6	r₀r₀	48	85	44	5	6	2	-	7-8	10	800
	S. Farnborough	226	00·0	+18	SSW	5	r₀r₀	46	92	43	6	5	-	-	10	10	1600
	Boscombe Down	417	99·8	-2	SW'S	4	rr	44	92	42	9	-	2	-	10	10	4000
	Thorney Island	10	01·5	+2	SW'S	4	rr	48	92	46	6	5	-	-	4-6	10	700
	Lympne	341	01·9	+2	SW	5	r₀r₀	48	97	48	4	6	-	-	10	10	400
	Manston	154	11·5	-2	W'S	5	RR	49	97	49	5	6	2	-	7-8	10	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	10	99·9	+4	WSW	4	z₀	46	92	44	6	5	-	-	10	10	2000
	Gorleston	5	97·4	-4	SSW	6	oq	48	85	44	5	5	-	-	10	10	900
	Mildenhall	15	97·4	+6	SW'S	5	ir₀	49	75	43	7	5	-	-	10	10	3800
	Cranwell	203	95·2	-2	SW	7	z₀	45	85	41	5	5	-	-	9+	10	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	97·1	-2	SW	6	r₀r₀	45	92	41	6	5	-	-	10	10	2800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	96·4	-8	WSW	4	rr	46	85	43	6	6	2	-	7-8	10	1500
	Bristol	209	98·0	-10	SSW	4	rr	45	92	42	6	6	2	-	10	10	900
	Portland Bill	32	01·1	-6	SW	5	rr	47	92	45	7	5	-	-	10	10	2500
	Plymouth	86	98·9	-24	WSW	4	rr	47	97	46	6	5	-	-	7-8	10	1400
	The Lizard	240	98·6	-32	W	3	r₀r₀	47	97	46	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	97·2	-22	NW'W	3	rr	49	97	48	6	5	-	-	10	10	800
	Guernsey	175															
6	Pembroke	142	94·8	-4	W'N	6	ir₀	48	65	39	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	91·3	-10	WSW	7	z₀	46	75	37	6	5	7	6	Tr	9+	3000
	Chester (Sealand)	16	92·0	-6	SW'W	4	c	46	65	35	7	5	2	-	4-6	10	4500
8	Manchester	230	92·9*	+2	SW'S	5	z₀	42	85	39	6	5	-	-	10	10	5000
10	Spurn Head	29	93·6	+8	S'W	4	o	45	85	40	6	7	-	-	10	10	1500
	Catterick (Sc)	192	88·9	-6	SW	5	c-bc/pr	44	75	37	6	3	3	-	4-6	7-8	2000
	Tynemouth	108	87·1	+12	WSW	5	bc	43	75	36	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	81·4	+12	SW	6	b	39	75	31	8	-	-	-	0	0	-
	Leuchars	31	79·1	+20	WSW	6	bc	40	85	35	7	5	-	-	4-6	4-6	3000
12	Renfrew (Abbots I.)	19	80·4	-2	SW	5	bc	41	65	31	7	5	3	-	1	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	87·2	+14	WNW	7	c	43	65	34	8	9	-	-	9	9	1800
13A	Tiree	44	73·9	+10	WSW	7	phr	38	85	35	7	3	-	-	10	10	2000
13B	Stornoway	12	60·4	-42	SSW	9	rr	41	97	40	6	6	2	-	7-8	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	75·7	+10	SSW	6	b	36	85	32	8	-	4	-	0	Tr	-
	Wick	114	70·0	-46	SW	5	c-bc	40	85	37	8	5	-	-	7-8	7-8	2000
16	Sumburgh	15	70·8	-38	SSE	6	r₀r₀	44	85	40	7	5	2	-	4-6	10	1700
17	Blacksod Point	18	85·4	0	W	7	bc/phr	42	65	32	7	9	-	-	4-6	4-6	1500
18	Malin Head	84	79·1	+6	SW'S	7	pr	41	85	37	8	8	-	-	4-6	4-6	1500
	Aldergrove	294	85·1	0	SW	5	b-bc	37	85	34	7	5	-	-	2-3	2-3	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	92·2	-18	W'S	4	a/r	45	85	41	8	6	-	-	10	10	1800
	Roches Point	22	93·6	-16	W'S	5	r₀r₀	47	92	45	7	6	2	-	4-6	10	1500

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

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)	91·9	-44	NW'W	2	rr	44	92	43	5	6	2	-	7-8	10	900	1	*
Croydon	92·1	-50	SW	4	rr	44	97	43	5	6	2	-	9	10	800	2	*
S. Farnborough	91·9	-42	W'N	3	rr	44	92	43	5	6	2	-	10	10	200	2	*
Boscombe Down	93·5	-22	NW'N	2	rr	40	97	40	6	-	2	-	10	10	800	1	*
Thorney Island	92·7	-44	NW	4	rr	45	92	44	5	5	-	-	10	10	900	1	*
Lympne	89·2	-82	SSW	8	RR	51	97	51	4	-	2	-	10	10	100	1	§ 7
Manston	88·9	-86	SSW	7	rr	51	97	50	4	6	2	-	4-6	10	600	1	*
Shoeburyness	91·5	-50	SW	4	rr	46	97	46	5	5	-	-	10	10	1000	1	*
Felixstowe	91·3	-58	N'W	3	rr	45	92	44	4	5	-	-	10	10	800	1	3
Gorleston	93·9	-34	SW	2	rr	45	97	44	5	6	-	-	10	10	800	1	5
Mildenhall	92·4	-36	W'S	2	rr	42	92	41	7	-	2	-	10	10	2800	1	*
Cranwell	92·3	-20	W	3	o/r	39	97	38	5	5	-	-	10	10	1500	1	*
Birmingham	92·1	-18	SSW	1	c/r	37	97	37	7	6	7	-	2-3	9+	900	1	*
Upper Heyford	91·0	-38	SSE	2	o/r	39	92	38	6	5	-	-	10	10	1700	1	*
Ross-on-Wye	92·1	-24	SW	2	c	39	85	37	8	5	1	-	9+	10	2000	1	*
Hartland Point	92·5	-12	WNW	4	c	45	92	44	8	5	-	-	9	9	1500	1	4
Bristol	92·8	-20	-	0	c/r	41	92	40	6	5	2	-	7-8	10	800	1	*
Portland Bill	94·0	-12	WSW	4	rr	45	92	43	7	5	-	-	10	10	2500	1	4
Plymouth	94·8	+2	NW	2	o/r	44	97	44	6	-	2	-	10	10	6000	1	1
The Lizard	94·9	+10	WNW	3	o/r	46	92	44	7	5	-	-	10	10	1000		4
Scilly (St. Mary's)	95·3	-6	NW'W	5	c	47	85	43	7	8	-	-	9+	9+	800	1	5
Guernsey																	
Pembroke	92·3	-6	NW	5	cq	46	85	42	8	6	-	-	9+	9+	1500	1	4
Holyhead (Valley)	90·3	+4	S'E	5	c-bc/r	42	55	37	7	8	-	-	7-8	7-8	2500	1	7
Chester (Sealand)	90·9	-6	NW'N	1	r₀r₀	41	85	36	7	6	2	-	2-3	10	1900	1	*
Manchester	90·8	-10	SSW	4	ir₀	37	97	36	6	5	2	-	4-6	10	2000	1	*
Spurn Head	92·0	-10	SSW	4	o	42	85	37	7	3	-	-	10	10	1500	1	3
Catterick (Sc)	88·3	-4	SSW	5	r₀r₀	35	97	34	6	5	2	-	9	10	1200	3	*
Tynemouth	86·6	-4	WSW	4	c-bc	41	75	33	7	2	3	-	4-6	7-8	2500	1	3
St. Abbs Head	80·9	-2	SW	6	b-bc	39	75	30	8	4	-	-	2-3	2-3	4000	0	4
Leuchars	78·9	+2	WSW	7	bc/pr	39	75	33	8	5	-	-	4-6	4-6	3000	1	*
Renfrew (Abbots I.)	80·3	0	SSW	5	pr	40	75	33	7	5	-	3	7-8	9	1200	1	*
Eskdalemuir	83·4	-4	SW	5	bc	37	85	32	8	5	-	-	4-6	4-6	1800	4	*
Point of Ayre	86·0	0	WNW	6	b	41	75	33	8	1	-	-	1	1	2000	1	4
Tiree	75·0	+14	WSW	8	c/pr	42	75	35	7	9	6	-	7-8	9	1200	1	7
Stornoway	60·3	+22	WSW	8	rr	42	85	39	6	6	2	-	7-8	10	900	2	
Dalwhinnie	75·0	-6	SSW	1	o/rs	33	92	31	4	5	-	-	10	10	2000	6	*
Aberdeen †	75·1	-14	SW'S	5	b-bc/pr	37	85	32	9	5	7	-	1	2-3	1500	1	4
Wick	65·1	-32	SSW	8	PH	40	85	35	8	9	-	-	10	10	1000	1	*
Sumburgh	65·6	-16	S'W	7	bc	43	75	36	8	2	6	3	4-6	4-6	2000	1	4
Blacksod Point	87·3	+18	W	7	PHR	39	85	35	7	9	-	-	10	10	1500	2	6
Malin Head	80·4	+10	W'N	8	Phr	41	75	33	8	8	-	-	7-8	7-8	1500	1	6
Aldergrove	85·3	+6	SSW	4	b-bc/pr	35	85	32	8	2	-	-	2-3	2-3	2000	1	*
Birr Castle	90·4	+6	WSW	2	b-bc	37	85	33	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	93·9	+16	W'N	5	c-bc/pr	45	65	34	8	3	-	3	7-8	7-8	2500	1	5
Roches Point	93·2	+16	W'N	3	bc	43	92	42	8	5	-	-	4-6	4-6	1500	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 18th Hrs. (38)
London (Kew)	45	43	42	1	16	0·0
Croydon	46	44	43	2	18	0·0
S. Farnborough	45	43	42	2	18	0·0
Boscombe Down	45	40	40	2	20	0·0
Thorney Island	47	44	42	1	22	*
Lympne	45	42	42	13	21	*
Manston	46	44	43	1	16	0·0
Shoeburyness	46	44	43	1	5	0·0
Felixstowe	45	43	42	2	10	0·0
Gorleston	45	44	42	1	6	0·0
Mildenhall	46	42	38	2	8	0·0
Cranwell	40	38	36	4	0·4	0·0
Birmingham	44	37	35	1	8	0·0
Upper Heyford	44	39	37	2	7	[illegible]
Ross-on-Wye	47	39	37	2	6	0·0
Hartland Point	51	45	42	1		0·0
Bristol	48	40	39	2	12	0·0
Portland Bill	48	44	*	1	19	*
Plymouth	53	43	42	4	21	0·0
The Lizard	53		*	3		
Scilly (St. Mary's)	53	45	*	1	0·4	0·0
Guernsey						
Pembroke	52	42	*	7	4	0·0
Holyhead (Valley)	49	37	37	3	4	*
Chester (Sealand)	41	41	36	2	0·5	0·0
Manchester	41	39	36	1	0·3	*
Spurn Head	43	41	*	3	-	1·8
Catterick (Sc)	36	33	31	Tr	8	0·0
Tynemouth	40	36	33	1	4	*
St. Abbs Head	38	34	*	06	2	*
Leuchars	39	36	34	2	2	0·3
Renfrew (Abbots I.)	40	36	*	06	2	0·0
Eskdalemuir	36	32	24	2	4	0·3
Point of Ayre	44	40	*	7	0·1	0·0
Tiree	45	35	32	9	7	0·0
Stornoway	45	36	36	Tr	23	0·0
Dalwhinnie	35	31	30	1	7	0·0
Aberdeen †	43	36	32	-	7	1·6
Wick	43	38	34	3	5	*
Sumburgh	45	39	38	-	3	2·4
Blacksod Point	50	38	*	11	3	*
Malin Head	47	40		7	3	0·0
Aldergrove	45	35	31	11	1	0·0
Birr Castle	49	36	34	4	4	0·1
Valentia Obsy.	53	41	37	12	4	0·1
Roches Point	51	42	*	5	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 18th December / 18h. G.M.T. — 01h. G.M.T. 19th December / 7h. 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	7h $C_L C_M$	7h $wwVhN_h$	7h DDFWN
109	2-	02854	48504	5-	02744	46624	5-	02648	49528	5-	63648	48818
115	54	02954	20485	53	02854	12526	52	62735	53668			
203												
206	57	02864	00017	52	68754	47678	57	22643	20685	87	81656	20688
210	50	02864	12225	5-	02853	45528	53	01863	53524	37	81856	51788
219	22	02855	14628	52	64636	45868						
230	52	02855	10228	62	62646	45468	5-	81745	53886	9-	81757	53797
245	5-	05656	18227	52	64553	49827	00	01851	53681			
260	57	02		5-	62		5-	05537	30145	5-	05	
277				52	64548	50768				10	01854	55714
279	02	05668	12428	62	61544	47668	8-	05665	53665			
285	57	05								62	63625	26568
288	57	05555	14328	57	68346	47668	5-	25665	18485	81	82765	50487
275	62	54636	47568	30	01653	57763	57	05645	56585	30	01752	53583
301	52	08465	12428	62	62445	12788	57	02764	55668	53	81854	22464
321	--	44109	16149	62	62525	49568	03	62690	22568	01	05690	20468
299	54	02								5-	05	
292	57	41443	12348				57	05664	20467	57	61663	18328
310												
614	5-	43					52	61554	54428	52	22554	20268
333	52	63866	49668	80	05644	52664	52	02754	53528	23	22751	22464
334												
340	5-	08458	12428	5-	62445	47668	52	64658	20568	51	02854	18228
136	62	41536	18458	02	62658	49668	02	05644	53568	62	62633	20468
336	50	05		50	22							
350	57	41536	16358	5-	61748	53568	62	62644	20668	62	64647	22368
368	57	61645	14248				8-	62668	24468	52	05645	24168
379	--	48109	14849	62	62538	51768	52	64545	53668	5-	22734	08266
390	5-	21425	16258	5-	61448	51468	5-	61558	53528	62	64434	18168
382	--	44109	00059	52	51645	56668	5-	62668	53468	5-	62768	00068
438	--	57009	18659	8-	64658	55768				--	67	
430	5-	51		5-	64		5-	64		5-	61	
409	62	62635	16668	62	22636	52568	62	64645	22468	5-	05646	22488

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 19th December, 1943. Day 7h—18h Kew and Croydon, 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	Fd₀d₀cm₀	crr₀ir₀m₀	cr₀ir₀m₀
Croydon	cr₀rcr₀r₀m	cr₀r₀m₀	cd₀d₀mrr
Greenwich	cd₀dm	cdr₀q	ir₀qrrRm
Camden Square	or	orr	*
Kensington	bc	orbcorr	*
Hampstead	or	or	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·6, Time 9h 18th; Min. <0·1, Time 0·5h 19th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	45	43	42	1	16	0·0	*	*
Croydon	46	44	43	2	18	0·0	*	*
Greenwich	49	42	41	<1	20	0·0	88	95
Westminster	52	43	41		19		92	93
Regents Park								
Camden Square	50	42	40	1	18	*	*	95
Kensington	51	42	40	1	17		92	96
Hampstead	50	39	38	1	18		*	94

SECRET

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

Monday 20th December 1943 — No. 29278

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

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)	96·7	+16	WSW	3	z_o	44	85	41	5	5	–	–	7-8	9+	1500
	Croydon ...	96·6	+14	W	3	z_o	45	85	41	5	5	–	–	7-8	9	2000
	S. Farnborough	97·3	+18	W'S	4	c	44	92	42	7	5	7	–	7-8	9+	600
	Boscombe Down	97·9	+16	WNW	4	c	45	85	40	7	5	9	–	2-3	9+	1000
	Thorney Island	97·8	+12	SWW	3	c-bc	47	85	43	6	5	–	–	2-3	7-8	1000
	Lympne ...	96·6	+16	W	3	c/r	43	97	43	6	6	1	–	7-8	10	6000
	Manston ...	96·4	+22	W	3	z_o	43	92	41	6	–	7	–	9+	10	–
2	Shoeburyness ...	96·6	+16	WSW	3	z_o	43	85	40	5	5	3	–	9	9+	2500
	Felixstowe ...	94·8	+24	S	4	z_o	43	85	39	6	5	3	–	7-8	9	2000
	Gorleston ...	93·8	+16	WNW	2	c	42	85	39	7	8	–	–	9+	9+	1400
	Mildenhall ...	94·1	+8	W'S	4	c	44	92	42	7	5	3	–	4-6	9+	1500
	Cranwell ...	93·6	+12	W	5	z_o	42	85	37	5	–	7	–	0	4-6	–
3	Birmingham ...	95·6	+10	WSW	3	z_o	41	85	36	6	6	7	–	1	9+	1500
	Upper Heyford	95·7	+14	WS	3	c	41	92	39	7	5	7	–	7-8	9+	5000
	Ross-on-Wye	96·3	+20	WS	2	c	44	75	37	8	5	1	3	2-3	9+	2000
5	Hartland Point	98·3	+18	NNW	4	c/pr	44	85	39	8	3	–	–	9	9	1500
	Bristol ...	97·4	+26	WS	3	z_o	44	92	42	6	5	–	–	10	10	4500
	Portland Bill ...	98·9	+22	W	4	c	47	92	45	8	5	–	–	10	10	4500
	Plymouth ...	00·1	+26	WN	4	r/c	45	85	41	6	5	–	–	2-3	10	1500
	The Lizard ...	00·1	+30	WNW	4	c-bc/r	44	85	39	6	8	6	–	7-8	7-8	2000
	Scilly (St. Mary's)	00·9	+26	NNW	5	c/r	46	75	39	8	8	4	–	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	96·9	+16	NW	5	c-bc/r	46	65	35	8	8	6	–	7-8	7-8	2000
7	Holyhead (Valley)	93·5	+22	W'N	6	b-bc/r	45	65	32	8	8	–	–	2-3	2-3	2500
	Chester (Sealand)	92·9	+10	W'N	4	c-bc/pr	43	65	32	7	2	–	–	2-3	4-6	3000
8	Manchester ...	93·3	+14	WSW	4	z_o	42	85	36	6	2	6	3	1	7-8	2500
10	Spurn Head ...	91·9	–4	WSW	5	z_o	41	75	35	6	7	3	–	2-3	4-6	2500
	Catterick (Sc)...	89·1	+6	WSW	3	b-bc	42	75	34	8	2	6	–	2-3	2-3	3500
	Tynemouth ...	86·9	+6	W	6	b-bc/q	43	65	29	6	2	3	–	2-3	2-3	2500
11	St. Abbs Head	81·8	+10	SW	6	bc	38	75	32	8	3	4	–	4-6	4-6	3000
	Leuchars ...	80·3	+18	SW	7	prs	37	85	34	5	3	–	–	4-6	9+	1000
12	Renfrew (Abbotsl.)	83·3	+10	SSW	5	phr	41	75	35	8	9	–	3	7-8	9+	1800
	Eskdalemuir ...	85·7	+10	SW	5	c	37	75	31	8	5	–	–	9+	9+	1700
	Point of Ayre...	90·0	+22	WNW	6	bc	43	65	33	8	2	6	–	4-6	4-6	2000
13A	Tiree	80·7	+18	N	6	c	41	65	34	7	9	–	–	10	10	1800
13B	Stornoway ...	69·7	+46	NSW	9	rr	41	85	37	6	6	2	–	7-8	10	1000
15	Dalwhinnie ...	76·0	+22	NSW	5	c/rs	37	65	24	7	5	–	2	4-6	9+	2500
	Aberdeen ...	75·7	+12	SW	5	c	38	75	31	8	5	7	3	Tr	9+	1500
	Wick ...	66·2	+18	WSW	8	c/pr	41	85	38	8	5	7	–	9+	10	1500
16	Sumburgh ...	57·0	–38	SSW	9	r_o	43	97	43	6	5	7	–	10	10	1000
17	Blacksod Point	92·4	+16	W	6	c-bc/phr	45	75	38	7	9	–	–	7-8	7-8	1500
18	Malin Head ...	85·0	+22	WS	7	c/pr	41	85	37	8	8	–	–	10	10	1500
	Aldergrove ...	89·7	+18	SW	4	c/pr	37	85	34	8	9	–	–	7-8	9+	1200
19	Birr Castle ...	95·6	+20	WSW	2	bc	40	85	36	8	5	–	–	4-6	4-6	2500
20	Valentia Obsy.	00·6	+26	WN	6	pr	45	65	33	8	3	–	–	9	9	2500
	Roches Point	99·2	+24	WNW	4	bc	44	85	40	8	3	–	3	1	4-6	1500

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

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)
01·9	+18	WSW	3	z_o	42	75	36	5	–	–	–	0	0	–	1	*
01·9	+34	W'S	4	m	43	75	37	4	5	–	–	Tr	2-3	1500	1	*
02·5	+32	WSW	4	b	41	75	35	6	5	–	–	1	1	2000	1	*
03·5	+34	W	4	b	38	85	35	7	3	–	–	1	1	3000	1	*
03·8	+40	W'N	2	b/r	43	85	38	6	5	–	–	1	1	2000		*
02·7	+2	W'N	3	z_o	42	85	39	6	5	7	–	7-8	10	3200	1	§2
00·1	+32	W	3	ir_o	43	85	39	6	5	3	–	4-6	9+	6500	1	*
01·6	+24	WSW	3	m	44	85	39	4	5	–	–	9	9	2500	1	*
00·3	+38	S'W	3	z_o	43	75	37	5	5	–	–	10	10	2000	1	4
97·8	+36	W	3	z_o	42	75	36	5	8	–	–	9	9	1000	1	3
00·3	+28	WSW	4	z_o	41	75	33	6	5	–	–	Tr	Tr	4000	1	*
98·0	+6	SW	6	z_o	37	85	32	6	–	4	–	0	2-3	–	0	*
00·7	+34	WSW	3	z_o	38	75	31	6	–	4	–	0	1	–	1	*
01·1	+36	W'S	2	b	35	92	33	7	–	–	–	0	0	–	1	*
01·6	+20	SW'S	3	b	40	75	32	8	3	–	–	Tr	Tr	3000	1	*
03·4	+46	WNW	3	bc	45	65	32	8	2	–	–	4-6	4-6	2500	1	4
03·2	+38	W'S	4	z_o	40	85	35	6	4	–	–	Tr	Tr	3000	1	*
03·3	+28	W	4	c-bc	46	92	44	8	5	–	–	7-8	7-8	5000	1	4
06·3	+36	WNW	4	b-bc	43	85	38	7	3	–	3	2-3	2-3	2500	1	3
06·2	+24	WNW	6	c-bc/pr	45	75	38	7	3	–	–	7-8	7-8	1500	1	5
07·1	+38	W'N	6	bc/p	45	65	35	8	3	–	–	4-6	4-6	1500	1	5
03·0	+20	NW	6	c-bc/q	46	65	34	8	2	–	–	7-8	7-8	2000	1	4
98·9	+34	W	6	b-bc	43	65	33	8	2	–	–	2-3	2-3	2500	1	2
97·5	+30	W	3	b-bc	40	75	32	8	2	6	–	2-3	2-3	2500	1	*
98·2	+34	SW	4	b-bc	37	85	34	7	2	–	–	2-3	2-3	2000	1	*
95·7	+18	WSW	6	b-bc/p	40	75	32	7	7	–	–	2-3	2-3	4000	0	3
93·0	+30	WSW	5	b-bc/pr	38	85	35	7	2	6	–	2-3	2-3	3000	1	*
90·4	+14	W	6	z_o	41	65	30	6	2	–	–	2-3	2-3	2500	1	3
86·3	+16	SW	6	bc/pr	37	85	32	7	4	–	–	4-6	4-6	2500	1	5
88·4	+30	SW	5	bc/pr	38	85	33	7	3	6	–	2-3	4-6	2000	1	*
87·1	+26	WSW	5	pr	42	75	36	7	9	–	–	2-3	7-8	1000	1	*
89·8	+22	SW'W	5	c-bc/pr	35	85	32	8	5	–	–	7-8	7-8	1400	1	*
93·7	+26	WNW	6	b	42	75	34	8	3	–	–	1	1	2000	0	4
85·7	+26	W	7	c-bc	43	75	37	8	2	–	–	4-6	7-8	1500	1	6
77·3	+46	WSW	7	phr	43	65	33	7	9	1	–	7-8	9	1500	2	5
75·0	+34	WSW	5	c/rs	35	85	30	6	5	–	–	9+	9+	2000	6	*
80·0	+30	SW	4	c	40	65	29	8	–	7	–	0	9+	–	1	4
71·1	+38	WSW	8	bc/pr	40	65	28	7	9	–	–	4-6	4-6	1000	1	*
61·5	+46	W'S	8	z_o	46	75	37	6	3	6	3	7-8	9	1500	1	5
05·9	+20	W	6	b-bc	44	75	37	7	9	–	–	2-3	2-3	1500	1	5
89·9	+30	W'N	8	phr	41	75	34	8	8	–	–	7-8	7-8	1500	1	6
94·3	+32	WSW	4	c-bc/pr	37	85	34	8	3	–	3	7-8	7-8	1500	1	*
99·6	+20	WSW	3	b-bc	37	85	33	8	3	–	–	2-3	2-3	1500	1	*
04·6	+24	W'S	5	c-bc	45	75	36	8	3	6	–	2-3	7-8	2500	1	6
03·9	+30	W'N	3	b	41	85	36	8	3	–	–	1	1	1500	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 19th (39)	13h.—18h. 19th (40)	18h. 19th to 1h. 20th (41)	1h.–7h. 20th (42)
cr romrno	cbcbz$_o$	bmo	bcmo
cmorrcmo	cm$_o$cmbz	bmo	bmobbc
crmoroc	ccr$_o$bcb	bmob	bbwbc
orrmoc	ccir$_o$cbc	b	blbx
cmoircmo	ccr$_o$cr$_o$m$_o$	bmob	bwbcwb
orrmorr	cmo	cbmo	bmow
cRRmcmo	cm$_o$	irob	b
crormc	cm	bc	bcx
cror$_o$mo	cmo cm$_o$	cm$_o$bzm$_o$	bmo
c	cbccz	czobcb	c
crrcrorc	ccmo	bzolbx	bxbcxbx
cmobcmo	bcm$_o$	bmobcmobcmo	
cbccz	cbz	bz	bz
cmoc	cm$_o$bc	b bmox	bmoxcx
c	cvbb	b	bcpobc
cpr	cprbc	bc pr$_o$q	cqphrbc
cmo	cm$_o$pr$_o$bm$_o$	bcpro	bcpro,b
bcc	c	bc	bc
cirorr	cr$_o$r$_o$m$_o$bc	b	bcpr
crrc	rrpre	bcpr$_o$q	pr bcq
prh	cirbcp	bc	bccpobc
cq	bccq	bcq	bcq
bcobc	bbc	bcb	bbc
romobc	pr$_o$bc	bc	
rorobc	mo cbz$_o$bc	bcb	bbcc
bcmo	bc	bc	
bc	bccpr$_o$bc	bcidb	czbcidb
bcqmo	bcm$_o$q	bcq	bcq bmo
bc	bccprbc	bcpro bq	bbc q
pro cprs	pr$_o$bc	b pr$_o$bc	bcpbc
cphr$_o$	cph pr$_o$p$_o$	cpr$_o$ph,cp$_o$	c pr$_o$m$_o$
bcc prs$_o$	ps prs	bccr$_o$	cr$_o$irc
bbc	bcbq	b	bbcc
cbc phbc	cpr$_o$c	bcbbcpr$_o$	cpr$_o$
crr mo	crr$_o$m$_o$cpr$_o$	cpr bcc	pr bcc phbc
cirsc	coirsc	cbc	bcb
bccq	c	cbc	bcb
cpr$_o$	cpr$_o$cp$_o$	bcbcbcc pr$_o$	bcbbcpr$_o$
cpr rr	cr$_o$m$_o$	cm$_o$pr$_o$	bc Pr
prh	pr	pr	p
pr	pr	pr	pr
epr sbcpr	cpr$_o$	cbc pr	cbccpr$_o$
pr	pr	•	pr
pr bc	pr bc	pr b	pr b

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

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh southwest to west winds. Fair; risk of scattered showers this evening. Rather cold, with moderate night temperature and fairly general ground frost.
4 W. Midlands 5 W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Fresh or strong squally, westerly winds, gale locally in in exposed places, moderating slowly. Thundery showers of rain and hail, with snow on high ground in the North and scattered thunderstorms; showers less frequent in southwest and east. Cold with some ground frost at night.
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

Pressure is low to the north and high to the south of the British Isles. Weather will be mainly fair in the southeast, but elsewhere there will be thundery showers of rain and hail, with snow on high ground in the North and scattered thunderstorms. Widespread strong squally, westerly winds with gales locally will moderate slowly.

FURTHER OUTLOOK

Little change at first; possibility of rain spreading northeast across southwestern districts later.

Forecasts issued at

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

7h. Monday 20th December. 1943.

LOW

HIGH

10° 5°W. 0° 5° 10°

60° 55° 50°

972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016

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

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Monday 20th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Monday 20th December 1943 — No. 29978

OBSERVATIONS at 1 hr. G.M.T. 20th December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Dirce. (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	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon ...	290	09·7	+26	WSW	5	2o	39	85	34	6	-	-	-	0	0	-
	S. Farnborough	226	09·7	+22	SW	4	b	38	85	34	7	-	-	-	0	0	-
	Boscombe Down	417	10·3	+26	WSW	4	b	37	85	33	7	-	-	-	0	0	-
	Thorney Island	10	10·8	+24	WSW	3	b	42	85	37	7	-	-	-	0	0	-
	Lympne ..	341	10·4	+30	W	3	2o	35	92	33	6	-	-	-	0	0	-
	Manston ...	154	08·9	+26	W'S	4	b	38	85	32	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	06·5	+22	SW	4	2o	39	85	34	5	-	-	-	0	0	-
	Gorleston ...	5	05·3	+30	WSW	3	b	38	75	32	7	-	-	-	0	0	-
	Mildenhall ...	15	06·1	+22	SW'W	4	b	37	85	33	7	-	-	-	0	0	-
	Cranwell ...	203	02·8	+10	W'S	7	2o	37	85	32	6	-	-	2	0	Tr	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	07·7	+26	SW'S	4	2o	34	92	32	5	-	3	-	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·1	+12	WNW	5	bc q	46	75	37	8	2	-	-	2-3	2-3	2500
	Bristol ...	209	09·3	+18	SW	4	bc/pr	40	85	35	7	2	-	-	2-3	2-3	2000
	Portland Bill ...	32	10·6	+18	W	4	bc	46	92	44	8	5	-	-	4-6	4-6	5000
	Plymouth ...	86	12·5	+14	W	4	b-bc	44	75	38	8	3	-	3	2-3	2-3	2500
	The Lizard ...	240	12·4	+20	NW	6	bc/pr	46	85	42	7	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	12·5	+16	W'S	6	b-bc	47	75	40	8	8	-	-	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	07·2	+12	WNW	7	bc q	48	92	36	8	2	-	-	4-6	4-6	1500
7	Holyhead (Valley)	32	03·6	+6	WSW	7	b	44	75	38	8	1	-	-	1	1	2500
	Chester (Sealand)	16	03·3	+20	W'S	3	b	42	65	33	7	5	3	-	Tr	1	3000
8	Manchester ...	230	02·7	+14	SW	3	b	38	85	34	7	4	-	-	Tr	Tr	3000
10	Spurn Head ...	29	OH	+22	WSW	6	b-bc	39	85	34	7	7	-	-	2-3	2-3	4000
	Catterick (Sc.)...	192	28·3	+26	SW	6	do do	41	97	41	6	5	-	-	4-6	4-6	3300
	Tynemouth ...	108	96·0	+24	W	8	bq	42	65	31	7	-	-	-	0	0	-
11	St. Abbs Head	280	92·0	+26	WSW	6	b	38	85	33	7	4	-	-	1	1	2500
	Leuchars ...	31	91·1	+32	WSW	5	bc/pr	38	85	35	7	3	-	-	4-6	4-6	2500
12	Renfrew (Abbotsl.)	19	93·5	+22	SSW	4	pr	40	75	34	6	3	-	-	3	3	1200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	99·0	+24	W'N	6	b-bc	42	85	36	8	3	-	-	2-3	2-3	2000
13A	Tiree	44	91·1	+18	W	5	pr	43	85	40	7	9	-	-	7-8	7-8	1600
13B	Stornoway ...	12	84·3	+26	WSW	6	pr	39	75	33	7	3	-	-	3	3	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	87·6	+22	WSW	5	b	39	65	29	8	-	4	-	1	1	-
	Wick ...	114	82·5	+38	SW	7	bc/pr	39	85	36	8	3	-	5	2-3	2-3	1000
16	Sumburgh ..	15	73·5	+50	W'S	8	pr	46	75	37	6	3	-	-	9+	9+	1800
17	Blacksod Point	18	29·1	+6	W	6	bc/ps	44	92	42	7	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	94·1	+10	WNW	7	pnr	42	85	38	8	8	-	-	9	9	1500
	Aldergrove ...	294	99·0	+20	SWW	4	c/pr	37	92	35	8	8	-	-	9	9	2400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	07·7	+10	WSW	5	b-bc	47	75	40	8	3	-	-	2-3	2-3	2500
	Roches Point	22	08·1	+14	W'N	4	b	41	85	37	8	5	-	-	1	1	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Dirce. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High. (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·6	+6	WSW	4	2o	40	85	35	6	5	-	-	4-6	4-6	2800	1	*
	Croydon ...	12·0	+10	SW	4	bc	41	85	36	7	-	3	1	0	4-6	-	0	*
	S. Farnborough	12·4	+12	SW	4	bc	40	85	35	8	-	7	-	4-6	4-6	-	1	*
	Boscombe Down	12·4	+6	SW'W	4	b	37	85	34	7	5	-	-	Tr	Tr	4000	1	*
	Thorney Island	13·5	+8	SW'W	4	b	44	85	39	7	-	7	2	0	1	-	1	*
	Lympne ..	13·1	+6	NW'W	3	2o	37	97	36	6	5	1	1	2-3	7-8	2000	1	*
	Manston ...	11·9	+8	WSW	4	b-bc	38	85	34	7	5	-	6	1	2-3	5500	1	*
2	Shoeburyness ...	11·2	+20	WSW	3	2o	40	85	35	6	-	4	-	4-6	4-6	-	3	*
	Felixstowe ...	10·1	+18	SW	5	2o	39	85	35	6	2	-	-	1	1	2500	0	3
	Gorleston ...	08·0	+16	WSW	3	bc	37	85	32	7	-	4	-	0	4-6	-	0	2
	Mildenhall ...	09·0	+12	SW	5	c-bc	37	85	34	7	-	7	2	0	7-8	-	1	*
	Cranwell ...	06·2	+12	SW	6	2o	37	85	33	6	-	4	6	0	4-6	-	0	*
3	Birmingham ...	08·1	+6	SW	3	2o	39	85	34	6	-	4	-	0	1	-	1	*
	Upper Heyford	09·9	+6	SW	4	b-bc	36	92	34	7	5	-	1	1	2-3	4000	3	*
4	Ross-on-Wye	09·7	+6	WSW	3	b	42	75	35	7	5	-	-	1	1	3000	1	*
5	Hartland Point	10·8	+2	WNW	5	bc q/pr	46	85	41	8	2	-	-	2-3	2-3	2500	1	5
	Bristol ...	11·5	+10	WSW	4	bc q/pr	41	85	36	7	2	-	-	2-3	2-3	2000	1	*
	Portland Bill ...	12·8	+12	W	5	bc	48	92	46	8	5	-	-	4-6	4-6	5000	1	5
	Plymouth ...	14·0	+6	WSW	4	pr	46	85	43	8	8	6	-	4-6	4-6	1800	1	3
	The Lizard ...	13·3	+4	W	7	b-bc	48	75	41	7	2	-	-	2-3	2-3	3000	1	5
	Scilly (St. Mary's)	13·6	+2	W'S	6	bc/pr	48	85	44	8	8	-	-	4-6	4-6	1500	1	6
6	Pembroke ...	09·2	+8	W'N	6	bc q	43	75	40	8	2	-	-	4-6	4-6	1500	1	4
7	Holyhead (Valley)	05·0	0	SW'W	6	bc	46	75	38	8	3	7	5	1	4-6	2500	*	4
	Chester (Sealand)	04·6	0	W'S	4	c-bc	45	65	35	8	5	3	-	4-6	7-8	3000	0	*
8	Manchester ...	05·1	+8	SW'S	4	c	40	85	37	7	5	-	6	2-3	9+	3000	1	*
10	Spurn Head ...	04·7	+6	SW	5	bc	39	85	34	7	7	-	-	4-6	4-6	2500	0	3
	Catterick (Sc.)...	00·4	+2	WSW	6	id.	42	75	37	7	8	-	-	7-8	7-8	3500	1	*
	Tynemouth ...	99·0	0	W	5	2o	43	75	34	6	2	-	-	2-3	2-3	2500	0	2
11	St. Abbs Head	94·7	+10	WSW	6	bc q	39	85	35	7	4	4	-	2-3	4-6	2500	0	5
	Leuchars ...	93·5	+12	WSW	5	c-bc/pr	39	85	36	7	3	6	-	4-6	7-8	2000	1	*
12	Renfrew (Abbotsl.)	93·3	+2	SSW	4	c/pr	43	85	39	6	8	-	-	9	9	2000	1	*
	Eskdalemuir ...	98·2	+4	SSW	5	c	38	85	35	7	5	-	-	10	10	900	1	*
	Point of Ayre...	00·9	+12	WNW	6	c-bc	42	85	38	8	5	7	-	1	7-8	1800	0	4
13A	Tiree	91·9	+2	W	6	r R	42	97	42	7	9	-	-	10	10	1000	1	5
13B	Stornoway ...	86·3	+4	SW	4	c-bc/pr	40	85	36	7	3	-	3	4-6	7-8	1600	2	3
15	Dalwhinnie ...	79·5	+12	SSW	4	rS	34	92	32	4	5	-	-	10	10	2000	6	*
	Aberdeen † ...	91·1	+10	SW	3	b	38	75	31	7	-	4	-	Tr	Tr	-	1	2
	Wick ...	86·9	+20	WSW	5	bc/pr	35	97	34	8	3	6	-	2-3	4-6	1500	1	*
16	Sumburgh ..	81·4	+30	W'S	8	bc/pr	45	75	36	7	3	6	-	4-6	4-6	2000	1	5
17	Blacksod Point	99·4	+2	WSW	6	c/ps	47	85	43	7	9	-	-	9+	9+	1500	2	5
18	Malin Head ...	94·3	−2	SW	5	pr	45	92	43	8	8	-	-	7-8	7-8	1500	2	4
	Aldergrove ...	99·3	0	SW'S	5	c-bc/pr	41	85	38	8	8	-	-	7-8	7-8	4000	1	*
19	Birr Castle ...	03·4	−2	SSW	3	b-bc	42	85	38	8	3	-	-	2-3	2-3	1500	1	*
20	Valentia Obsy.	07·5	−2	SW	5	bc/pr	48	85	44	8	3	-	-	4-6	4-6	2500	1	5
	Roches Point	08·4	−2	W'N	3	b-bc	44	92	42	8	5	-	-	2-3	2-3	2500	1	*

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 19th Hrs. (38)
1	London (Kew)	45	37	29	1	-	0·2
	Croydon ...	45	38	35	3	-	0·6
	S. Farnborough	46	37	29	1	-	0·2
	Boscombe Down	45	35	28	0·1	-	0·0
	Thorney Island	49	39	32	2	-	*
	Lympne ..	51	35	31	5	Tr	0·0
	Manston ...	51	36	33	7	Tr	0·0
2	Shoeburyness ...	46	37	32	7	-	0·0
	Felixstowe ...	45	37	35	4	-	0·0
	Gorleston ...	44	34	32	8	-	0·0
	Mildenhall ...	44	36	27	2	Tr	0·0
	Cranwell ...	42	36	33	-	-	1·7
3	Birmingham ...	43	36	31	-	-	1·2
	Upper Heyford	42	34	29	0·1	-	*
4	Ross-on-Wye	45	37	32	-	Tr	0·
5	Hartland Point	47	41	38	1	2	1·3
	Bristol ...	44	36	31	0·6	2	0·4
	Portland Bill ...	47	43	-	-	-	*
	Plymouth ...	47	44	33	4	1	0·0
	The Lizard ...	68	44	*	4	2	
	Scilly (St. Mary's)	47	44	*	6	0·6	1·8
	Guernsey ...						
6	Pembroke ...	47	43	*	0·4	-	2·1
7	Holyhead (Valley)	49	37		*		*
	Chester (Sealand)	45	37	24	0·1	-	4·4
8	Manchester ...	43	36	32	0·6	-	*
10	Spurn Head ...	42	37	*	-	-	3·5
	Catterick (Sc.)...	42	38	33	0·5	0·1	4·7
	Tynemouth ...	43	41	35	-	-	*
11	St. Abbs Head	39	35	*	Tr	Tr	
	Leuchars ...	40	36	33	3	1	0·7
12	Renfrew (Abbotsl.)	43	38	28	2	8	0·4
	Eskdalemuir ...	38	35	34	0·2	1	0·8
	Point of Ayre...	45	41	*	-	-	3·5
13A	Tiree	45	41	38	2	4	0·0
13B	Stornoway ...	43	37	33	6	3	0·0
15	Dalwhinnie ...	38	33	32	4	11	0·1
	Aberdeen † ...	41	36	31	-	-	0·9
	Wick ...	43	35	32	4	0·1	*
16	Sumburgh ..	47	42	39	3	1	0·0
17	Blacksod Point	45	43	*	4	7	*
18	Malin Head ...	43	39		3	2	0·7
	Aldergrove ...	37	36	33	2	3	0·0
19	Birr Castle ...	42	37	35	1	4	2·3
20	Valentia Obsy.	46	42	38	0·4	1	3·0
	Roches Point	45	40	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 19th December: $C_L C_M$	ww $V_H h_s$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H h_s$	DDFWN	01h. G.M.T. 20th December – 07h. G.M.T.: $C_L C_M$	ww $V_H h_s$	DDFWN	$C_L C_M$	ww $V_H h_s$	DDFWN
109	5-	64648	55968	5-	63648	56268	8-	25754	55784	3-	01754	22614
115				84	14844	91867	84	81854	95884	34	81854	61686
203												
206	97	81745	55887	9-	81748	57688	30	01851	57581	80	01852	20605
210	52	61843	55767	3-	81855	55685	06	01850	55613	57	02955	20428
219										30	81844	22584
230	96	27955	57686	9-	27854	55684	9-	27658	53588	9-	27748	55588
245	33	25785	53585	40	01754	25484	50	01851	24401	54	01861	22513
260				30	25							
277	86	25844	55785	3-	25845	55786	26			8-	02855	55725
279	26	01853	53114	83	01743	55713	20	01754	53714	3-	82758	53788
285	23	26										
288				04	25891	54581	06	01892	20412	46	01852	53513
575	96	27844	55584	30	81744	55685	3-	81647	55687	33	05654	55586
301	20	01854	2-524	30	02855	34685	30	25854	22784	3-	35857	55687
321	14	05663	14414	00	05690	22420	00	05690	21300	57	05654	18316
299				00	00		50	01				
292	36	01853	22503	30	01762	22512				53	01753	22584
310												
614	54	05		00	05		04	05		04	05	

III	13h. G.M.T. 19th December: $C_L C_M$	ww $V_H h_s$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H h_s$	DDFWN	01h. G.M.T. 20th December – 07h. G.M.T.: $C_L C_M$	ww $V_H h_s$	DDFWN	$C_L C_M$	ww $V_H h_s$	DDFWN
333	24	01854	55424	24	01863	53423	20	01764	54614	07	02787	58427
334												
340	07	02930	20416	2-	01853	20413	50	01851	53401	50	01852	53412
136	09	02655	22466				00	05630	54400	07	02796	54506
230												
350	57	05674	22357	50	05672	22322	04	05691	20-01	03	01794	20414
368	57	22745	26468	80	01753	26382				50	25664	24484
379	67	02643	22327	00	00790	22310	00	00790	20200	50	01744	20314
390	5-	05544	24327	50	08442	24122	00	05590	20300	03	05690	20414
382	57	02744	24367	00	00790	23320	00	00790	22100	07	01790	21312
438				8-	22755	36465	00	00790	26500	50	01	
430				50	055		00	05				
409	6-	81648	24488	20	01854	58584	8-	27784	22585	20	01753	22583

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_H = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 20th December
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 ...	crrom	cbcbzo	bcmo	Kew hours ended 7h. Max. Time
Croydon ...	cmorr	cmo cmbz	bmbbc	0·3 8-9h 15h
Greenwich ...	cm	cbmo	bxmo	Min. Time
Camden Square	0	c	*	<0·1 0-5h 20th
Kensington ...	obc	bc	*	
Hampstead ...	0	0	bc	

Stations.	Temperature: Day Max °F	Temperature: Night Min °F	Min on grass °F	Rainfall: Day mm	Rainfall: Night mm	Sunshine to sunset hrs (Yesterday)	Humidity: 15h % (Yesterday)	Humidity: 9h % (To-day)
Kew ...	45	37	29	1	-	0·2	*	*
Croydon ...	45	38	35	3	-	0·6	*	*
Greenwich ...	45	38	30	-	Tr	0·5	82	77
Westminster ...	46	38	32	-	-		92	83
Regents Park ...	45	37	32	-	-		84	82
Camden Square	45	37	31	-	-	*	*	86
Kensington ...	46	37	29	Tr	Tr		79	89
Hampstead ...	43	34	27	-	-		*	88

SECRET

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

Tuesday 21st December 1943 — No. 25572

OBSERVATIONS at 13h. G.M.T. 20th December

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	12·7	0	SW'W	4	z_o	47	75	40	6	1	-	6	1	7-8	3100
	Croydon ...	13·0	-2	SW'W	4	c-bc	50	65	38	7	1	-	6	Tr	7-8	2000
	S. Farnborough	13·1	-6	SW	5	bc	49	65	40	8	7	-	-	1	4-6	2000
	Boscombe Down	13·3	-6	SW	5	c-bc	48	75	41	7	5	6	2	4-6	7-8	3000
	Thorney Island	14·2	-4	WSW	4	b-bc	50	75	41	7	2	-	2	Tr	2-3	2500
	Lympne ...	14·3	-2	WSW	5	c-bc	49	75	40	7	1	-	2	Tr	7-8	2000
	Manston ...	13·1	+2	WSW	4	bc	48	65	37	8	1	-	1	1	4-6	1500
2	Shoeburyness ...	13·2	0	SW	4	z_o	48	65	38	6	-	-	2	0	4-6	-
	Felixstowe ...	12·2	-2	SSW	4	z_o	43	85	38	6	-	-	1	0	Tr	-
	Gorleston ...	09·4	-4	SW'W	4	bc	45	75	38	7	-	7	-	0	4-6	-
	Mildenhall ...	10·2	+2	SW	5	b-bc	46	85	42	8	-	4	2	0	2-3	-
	Cranwell ...	07·0	0	W'S	6	z_o	45	75	38	6	-	3	5	0	4-6	-
3	Birmingham ...															
	Upper Heyford	10·6	-8	SW'W	4	bc	46	75	40	7	8	-	6	2-3	4-6	1800
4	Ross-on-Wye	10·2	-6	SW	4	pr	48	75	42	7	8	-	-	9	9	3500
5	Hartland Point	10·5	-6	W	5	bc/pr	48	92	45	7	2	4	-	4-6	4-6	2500
	Bristol ...	12·2	-4	SW	4	c-bc/pr	47	75	41	6	8	-	-	4-6	7-8	1200
	Portland Bill ...	14·3	+6	WSW	5	c	49	92	47	8	2	-	-	9	9	5000
	Plymouth ...	13·8	-8	WSW	5	c-bc	51	75	45	7	8	-	2	1	7-8	1500
	The Lizard ...	14·1	-4	W	6	bc	52	75	46	7	2	3	1	4-6	4-6	3000
	Scilly (St. Mary's)	13·4	-6	SW'W	5	c	51	85	46	8	8	6	5	4-6	9	1500
	Guernsey ...															
6	Pembroke ...	08·2	-6	W'N	7	cq	52	75	46	7	2	4	1	7-8	9+	2000
7	Holyhead (Valley)															
	Chester (Sealand)	06·0	+2	W	4	c	51	65	39	8	8	7	-	2-3	9+	2000
8	Manchester ...															
10	Spurn Head ...	05·4	0	SW	5	z_o	45	75	38	6	7	-	-	2-3	2-3	4000
	Catterick (Sc)...	01·8	+16	WSW	6	pr	46	85	41	6	3	3	6	4-6	9	2000
	Tynemouth ...	00·8	+6	WSW	6	bc	47	75	38	7	2	3	-	4-6	4-6	2200
11	St. Abbs Head	96·5	+10	WSW	8	bc	44	75	37	8	2	4	9	2-3	4-6	2500
	Leuchars ...	98·7	+4	WSW	4	pr	42	85	39	6	3	7	-	1	7-8	1000
12	Renfrew (Abbots I.)	97·9	+8	SSW	4	c/pr	44	85	39	7	3	3	-	7-8	9+	1500
	Eskdalemuir ...	99·7	+10	SW'S	4	c	41	85	37	8	5	1	-	10	10	1100
	Point of Ayre...	01·9	+8	W'N	6	c	47	85	42	8	6	7	9	1	9	1800
13A	Tiree	98·0	+10	W	4	bc/pr	45	92	43	8	2	4	5	2-3	4-6	1500
13B	Stornoway ...	99·2	+14	WSW	4	pr	42	85	36	8	3	-	5	4-6	4-6	1500
15	Dalwhinnie ...	94·0	+8	WSW	4	ph	38	75	31	7	5	3	-	2-3	9+	2000
	Aberdeen ...	92·8	+12	WSW	4	b-bc	44	65	34	8	5	4	9	Tr	2-3	2500
	Wick ...	99·7	+10	SSW	4	c-bc/ph	38	92	37	8	9	7	-	4-6	7-8	1000
16	Sumburgh ...	95·3	+10	W	7	c/ph	42	85	39	7	9	-	3	7-8	9	1000
17	Blacksod Point	00·6	-2	SW'W	5	c/r	47	85	43	7	6	-	-	10	10	1500
18	Malin Head ...	97·4	+12	SW	3	c	45	85	41	8	8	-	6	9	9+	1500
	Aldergrove ...	00·8	+4	SSW	4	c	45	75	39	8	5	4	8	1	9+	1500
19	Birr Castle ...	04·1	+6	SSW	3	c	49	85	45	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	06·3	+4	SW'W	5	c	50	85	46	8	5	-	6	2-3	9+	1500
	Roches Point	07·9	-8	W'S	4	c-bc	50	92	48	8	3	-	5	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 20th December

Barom. at M.S.L. mt. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
12·1	-2	SW	3	z_o	45	85	40	5	-	-	-	0	0	-	1	*
12·8	-2	SW	4	z_o	45	85	41	5	5	-	6	Tr	2-3	3000	1	*
12·6	+2	S'W	3	c-bc	45	92	42	7	5	4	8	Tr	7-8	4000	1	*
12·7	-6	S'W	3	b-bc	42	87	41	7	5	-	-	2-3	2-3	4500	0	*
13·8	-2	SW'S	3	b-bc/pr	46	85	42	6	5	-	-	2-3	2-3	2500	1	*
14·4	0	WSW	3	z_o	42	87	41	6	-	-	-	0	0	24000	1	§4
13·5	+2	SW'W	4	bc	44	85	38	7	-	-	8	4-6	4-6	-	1	*
13·3	0	SSW	4	z_o	45	85	40	6	-	-	-	0	0	-	1	*
12·0	+4	SSW	3	z_o	43	85	39	6	-	-	-	0	0	-	0	4
09·5	+2	SW'W	3	b	45	85	42	7	-	-	-	0	0	-	0	3
10·5	+2	SW'S	4	bc	45	85	44	7	-	7	-	4-6	4-6	10,000	0	*
08·0	+6	SW	5	z_o	44	85	41	6	5	-	-	4-6	4-6	3000	0	*
09·0	0	SSW	3	ir_o	44	87	43	6	6	-	-	10	10	800	1	*
10·2	-2	SW	4	z_o	44	85	40	6	5	-	6	4-6	7-8	3000	1	*
09·6	-4	SW	4	id_o	48	85	43	7	5	-	-	9	9	2000	1	*
09·8	0	WSW	5	c	48	87	47	7	2	6	-	4-6	9	1500	1	5
11·3	-6	SW'S	4	z_o	47	75	40	6	5	-	-	1	1	1200	1	*
13·5	-4	SW	4	c	49	92	47	8	5	-	-	7-8	7-8	2500	1	5
12·7	-4	SW'W	5	c	48	87	47	6	2	-	6	4-6	9	2500	1	4
12·3	-8	W	6	c-bc	49	85	45	7	8	6	-	4-6	7-8	2000	1	4
11·3	-10	SW'S	5	c-bc	49	85	43	8	2	4	5	1	7-8	1500	1	5
07·6	0	SW'W	6	o_q	50	85	45	7	2	-	-	10	10	1500	1	4
05·1	-2	SW	6	c/r	48	85	45	7	5	7	-	2-3	10	2000	1	4
05·9	0	WSW	3	c/r	48	85	41	6	5	2	-	7-8	10	1200	1	*
06·2	+2	SSW	4	pr	44	92	42	6	4	6	-	7-8	9+	2600	1	*
06·6	+4	SW	5	z_o	45	85	40	6	8	-	-	7-8	7-8	2500	0	3
03·3	+16	SW	4	c-bc	45	85	41	7	5	3	-	7-8	7-8	1800	1	*
02·8	+12	WSW	3	z_o	44	75	37	6	2	-	-	4-6	4-6	2500	0	2
98·5	+4	WSW	3	b-bc	42	75	36	7	5	-	-	2-3	2-3	2500	0	3
97·8	+10	WSW	3	z_o	37	87	36	6	5	-	-	2-3	2-3	3000	1	*
98·6	+10	SSW	3	c	45	75	39	7	8	7	-	4-6	9	2000	1	*
00·5	+4	SSW	6	c-bc	42	85	38	8	5	+	-	7-8	7-8	1100	1	*
02·0	0	NW'W	4	ir_o	45	92	43	8	9	2	-	7-8	9	2000	1	3
96·3	+4	WSW	3	pr	44	85	40	7	3	-	-	7-8	7-8	1000	1	3
91·4	+12	SW	5	b-bc	40	85	35	8	3	-	-	2-3	2-3	2000	2	3
97·0	+10	SW	3	b	35	85	31	7	5	-	-	1	1	3000	8-	*
96·1	+18	SW	2	b	39	75	31	7	-	4	-	0	Tr	--	1	*
92·3	+16	SW	4	b-bc	36	92	34	8	3	-	3	2-3	2-3	1500	1	*
89·0	+26	WSW	6	pr	44	85	38	8	3	6	3	9	9+	1000	1	5
97·4	-20	SW'W	5	c/r	49	85	45	7	6	-	-	9+	9+	1500	2	4
97·1	-2	SW'S	3	c	45	85	41	7	-	2	-	10	10	1500	1	3
00·8	-2	SSW	4	ir_o	43	92	41	8	5	-	-	10	10	2500	1	*
02·4	-8	SSW	2	c	47	85	43	7	4	-	-	10	10	1500	1	*
02·7	-22	SSW	5	c	49	85	45	8	3	7	-	4-6	9+	2500	1	4
05·5	-12	WSW	4	c-bc/r	49	87	48	8	6	-	5	4-6	7-8	1500	1	4

PAST 24 HOURS.

Weather 7h.–13h. 20th (39)	Weather 13h.–18h. 20th. (40)	Weather 18h. 20th to 1h. 21st. (41)	Weather 1h.–7h. 21st (42)
bcbm$_o$bcz$_o$	cbcbm$_o$	bbcm$_o$	bccm$_o$w
bcz$_o$bc	cbcbcz$_o$	bcm$_o$cm$_o$w	cm$_o$bc,w
bcbbc	bccbc	bcbm$_o$w	bcwc, prm$_o$
brbbcc	cbccbc	bccb	bbcc dbc
bccm$_o$bc	bccpr$_o$	cpr$_o$bcm$_o$	bc
cm$_o$cm$_o$b	cbccm$_o$w	bwcm$_o$	cbc m$_o$r
bcb	bccbc	bccm$_o$	cm$_o$
bcm$_o$	cm$_o$bcm$_o$	bc	cbcw
bz$_o$bm$_o$	bm$_o$	bm$_o$	bm$_o$bcm$_o$w
bc	b	cbcz$_o$	bcz$_o$
b	bbcc	bcbbccbc	bccbc
bcm$_o$bm$_o$bcm$_o$	cm$_o$bcm$_o$	cm$_o$	cm$_o$
	oir$_o$o	cir$_o$	cir$_o$
brbcm$_o$c	bcpr$_o$c	cm$_o$	cm$_o$c
bbcir$_o$	cr$_o$id$_o$	cid$_o$	c
bcpr	c	cprbc	bc
bcm$_o$pr$_o$	cz$_o$bcm$_o$	bm$_o$cbm$_o$bbcm$_o$pr$_o$	
bcc	cpr	oc	c
bc	c	ir$_o$bc	bcpr$_o$pr
prbcc	cprr$_o$c	cprbc	prbcc
bcc	c	cbcp$_o$	c
cprq	cq	bcprq	bccq
	cir$_o$c	bccpro	probcc
	c	c	bc$_o$cpr$_o$
	cprm$_o$	cprom$_o$	bcpro
bc	cm$_o$	cm$_o$pr	b
cpr$_o$	cpr$_o$	cpr$_o$cir$_o$	cir$_o$ bcc
bcpm$_o$bc	bcm$_o$	bccm$_o$	cbcm$_o$
qpr$_o$bc	prcbc	bccb	becr$_o$
cm$_o$rrcpr$_o$	cpr$_o$bcm$_o$	bbcciromo	bcrr$_o$cir$_o$
cm$_o$cpref	cpr$_o$c	cpr	cprc
crrc	circ	crrm	cr$_o$irc
c	rr	cir$_o$cb	bRRc
	bcp$_o$cprc	cpr$_o$bc	cr$_o$r$_o$m$_o$r$_o$
	bccpr$_o$bc	bcbcpr$_o$	cpr$_o$cr$_o$c$_o$
		*	btrso
cprse	cprsb	b	bbcpr$_o$bc
bbccbcb	b		
bcbm	cbc	bcb	bcpr$_o$
bccph	cpr$_o$h	cprbc	bccbc
r	r	r	pr
	pr	r	r
pr	cair$_o$	cir$_o$cbcb	bcciR
c			
c	pr	*	pr
pr	pr	pr	tlr
pr	pr	r	r

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

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Fresh or strong southerly winds, gale at times, veering west and moderating. Thundery outbreaks of rain spreading east, becoming fine to-night. Local fog to-night: rather cold with ground frost at night.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Strong to gale southerly winds, veering west and moderating. Thundery rains spreading east, followed by thundery showers of rain and hail with local thunder: rather cold.
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 southerly winds, gale locally veering southwest to west with gales in west and north. Thundery outbreaks of rain, with frequent thundery showers of rain and hail later, and snow on high ground. Local thunder: cold.
16 Orkneys and Shetlands	As 11-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Southwest to west winds, fresh in south, strong to gale at first in north. Thundery showers of rain and hail with local thunder. More general rain in southwest tomorrow: cold.

GENERAL INFERENCE

A deep depression west of Scotland is moving slowly northeast and a trough of low pressure is crossing the British Isles. There will be thundery outbreaks of rain and showers in all districts, and more particularly in west and north. Strong to gale winds will occur in most districts.

FURTHER OUTLOOK

Rain spreading northeast across the British Isles, with renewed widespread gales.

▼ Gale warning in operation, areas 4-19, issued at 1430 G.M.T. 20th Dec., 0020 G.M.T. 0605 G.M.T. 21st Dec.

Forecasts issued at 1030

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

7h. Tuesday 21st December, 1943.

10° 5°W. 0° 5°E. 10°

60° 55° 50°

LOW

STATION MODEL

High Cloud

Medium cloud — Total Amount of cloud

Temperature °F. — Wind

Present weather — Barometer mb.

Visibility — Bar. change in past 3 hours in tenths mbs.

Dew Point °F — Weather in past hour

Low cloud — Past weather

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

Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Tuesday 21st December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Tuesday 21st December 1943

No. 29979.

OBSERVATIONS at 1 hr. G.M.T. 21st December

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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon	290	10·8	-18	SSW	4	zo	45	92	43	6	5	-	6	4-6	7-8	2000
	S. Farnborough	226	10·3	-18	SE	2	zo	44	97	43	6	-	7	8	1	1	1200
	Boscombe Down	417	10·3	-14	SW	4	b	42	92	40	7	-	-	-	0	0	-
	Thorney Island	10	12·0	-14	SW	4	bc	46	92	44	7	8	-	-	4-6	4-6	2500
	Lympne	341	12·7	-12	SWW	4	zo	44	97	44	6	5	-	-	10	10	1500
	Manston	154	11·1	-22	SW	4	zo	45	92	43	6	5	-	-	9+	9+	1100
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	10	11·0	-8	SSW	4	zo	43	92	41	6	-	7	-	0	2-3	8000
	Gorleston	5	09·6	-4	WSW	4	zo	44	85	41	6	5	-	-	4-6	4-6	1500
	Mildenhall	15	09·2	-10	SSW	3	bc	45	92	43	7	-	7	-	0	4-6	1000
	Cranwell	203	07·0	-10	SW	5	zo	41	92	40	6	-	-	6	0	4-6	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·3	-18	SWS	4	zo	43	92	41	6	5	7	8	2-3	9+	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05·5	-22	SW	5	bc/pr	47	85	42	7	3	-	-	4-6	4-6	1500
	Bristol	209	08·7	-18	S	2	z	44	85	41	6	5	4	-	1	2-3	2500
	Portland Bill	32	11·1	-8	SW	5	c-bc	48	92	46	7	5	-	-	7-8	7-8	2400
	Plymouth	86	08·7	-20	SWW	4	b-bc	49	85	44	7	5	-	-	2-3	2-3	2500
	The Lizard	240	08·0	-28	SW	6	bc/pr	48	85	45	7	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	06·6	-26	SW	5	bc	49	85	45	8	8	-	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	03·4	-20	SWW	6	b-bcq	50	85	44	7	2	-	-	2-3	2-3	1500
7	Holyhead (Valley)	32	01·1	-22	SSW	6	c-bc/pr	47	85	45	7	5	7	-	7-8	7-8	2500
	Chester (Sealand)	16	04·0	-10	SSW	2	bc	46	75	39	7	5	-	-	4-6	4-6	2000
8	Manchester	230	04·3	-16	S	5	zo	45	85	43	6	2	6	-	4-6	4-6	2500
10	Spurn Head	29	06·3	-6	SW	5	bc/pr	43	92	41	6	8	-	-	4-6	4-6	2500
	Catterick (Sc)	192	02·4	-14	SW	4	iro	45	85	42	7	5	-	-	7-8	7-8	3000
	Tynemouth	108	01·7	-16	SW	3	zo	45	85	42	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	98·8	-8	SSW	2	c-bc	42	92	40	7	5	-	-	7-8	7-8	2500
	Leuchars	31	96·9	-10	SSW	2	iro	42	97	41	6	5	-	-	10	10	1900
12	Renfrew (Abbots I.)	19	96·8	-20	S	4	pr	46	92	44	6	8	-	-	7-8	7-8	1600
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	98·5	-2	SW	4	b-bc	48	85	43	8	6	4	-	Tr	2-3	1800
13A	Tiree	44	90·5	-38	S	4	c/r	44	97	44	7	5	-	-	9	9	1200
13B	Stornoway	12	89·6	-26	S	5	pr	45	85	42	7	8	1	-	7-8	7-8	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	97·0	-4	SW	2	c	37	85	34	7	5	7	-	4-6	10	3000
	Wick	114	94·1	-2	SW	3	b	38	92	36	8	3	6	-	Tr	1	2000
16	Sumburgh	15	92·6	+14	WSW	5	cbc/pr	43	85	38	8	3	6	-	2-3	2-3	1200
17	Blacksod Point	18	85·5	-62	SSW	7	rr	47	97	46	6	6	2	-	4-6	10	800
18	Malin Head	84	90·0	-40	S	5	c	47	75	40	8	8	-	-	9	9	1500
	Aldergrove	294	93·5	-32	SSE	4	b	44	85	41	8	5	-	-	1	1	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	92·1	-62	SW	6	iro	50	85	46	8	6	-	-	10	10	1800
	Roches Point	22	98·0	-44	WSW	6	c/r	49	97	48	8	6	2	-	4-6	9	1500

OBSERVATIONS at 7 hr. G.M.T. 21st December

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)	06·3	-20	SSW	3	zo	43		39	6	5	-	-	7-8	7-8	2100	1	*
Croydon	06·9	-24	SSW	4	zo	43	85	40	5	-	4	2	2-3	4-6	7900	1	*
S. Farnborough	06·2	-26	S	4	c	44	85	41	7	8	6	-	9	10	1100	1	*
Boscombe Down	04·9	-32	SW	5	c-bc	45	85	42	7	-	7	8	0	7-8	-	1	*
Thorney Island	07·5	-30	SSW	5	c-bc	46	85	42	7	1	3	2	Tr	7-8	3000	1	*
Lympne	05·6	-20	SW	5	zo	42	92	41	6	5	4	1	Tr	2-3	1500	1	§
Manston	09·6	-18	SW	4	zo	43	92	41	6	1	3	1	Tr	10	1300	1	*
Shoeburyness	09·5	-20	S	3	bc	43	92	41	7				2-3	4-6	2500	1	*
Felixstowe	08·4	-18	SW	5	zo	43	92	41	6	5	7	1	2-3	4-6	3000	1	4
Gorleston	08·6	-6	SW	4	bc	43	85	40	7	1	-	-	4-6	4-6	2500	0	4
Mildenhall	05·7	-24	S	4	c-bc	43	92	41	8	-	4	2	0	7-8	8000	0	*
Cranwell	03·0	-22	SSW	5	zo	40	97	40	6	-	7	-	0	9	8400	0	*
Birmingham	*	-32	SSE	4	iro	43	92	40	7	6	7	-	7-8	9+	800	1	*
Upper Heyford	03·9	-28	SE	3	c	43	92	40	7	5	-	-	4-6	9+	1100	1	*
Ross-on-Wye	00·9	-40	S	5	ido	45	85	41	6	6	1	-	9	9+	1000	1	*
Hartland Point	97·0	-46	SSW	8	b-bc	48	85	43	8	2	-	-	2-3	2-3	2500	1	
Bristol	03·1	-30	SSW	4	pr	46	85	43	6	5	6	-	9	10	1300	1	*
Portland Bill	05·3	-36	S	5	c	48	92	46	7	5	-	-	10	10	4500	1	5
Plymouth	01·9	-38	SW	5	c/pr	48	97	48	7	2	7	-	7-8	9+	2000		5
The Lizard	00·1	-50	SW	7	c	50	75	46	6	5	-	-	9+	9+	1500	1	5
Scilly (St. Mary's)	97·2	-64	SSW	6	iro	51	85	46	7	5	-	-	10	10	1500	1	*
Guernsey																	
Pembroke	94·3	-40	SW	8	cq	50	85	46	7	5	-	-	9+	9+	1500	1	5
Holyhead (Valley)	92·5	-50	SE	8	c	47	85	43	7	8	-	-	9	9	1200	1	
Chester (Sealand)	99·8	-38	SW	5	c/pr	44	85	39	7	8	3	-	7-8	9	2500	1	*
Manchester	98·6	-30	SE	6	bc	43	97	43	7	3	6	-	4-6	4-6	2500	1	*
Spurn Head	03·9	-16	SSW	5	b-bc	42	92	40	7	5	-	-	2-3	2-3	4000	1	3
Catterick (Sc)	98·2	-20	ESE	4	c-bc	42	85	39	7	8	6	-	7-8	7-8	2000	1	*
Tynemouth	97·0	-24	S	4	zo	44	85	39	6	5	3	-	2-3	4-6	2500	0	3
St. Abbs Head	93·0	-40	SSW	5	iro	44	85	39	8	5	4	-	7-8	9	2500	1	3
Leuchars	91·8	-28	SE	4	iro	46	92	44	6	5	2	-	9	10	2200	1	*
Renfrew (Abbots I.)	88·8	-10	ESE	3	c-bc	47	85	43	7	8	-	-	7-8	7-8	1600	1	*
Eskdalemuir	91·7	-30	SE	6	c	43	85	39	7	5	-	-	10	10	900	1	*
Point of Ayre	91·1	-46	SW	6	RR	47	85	44	8	6	-	-	10	10	1500	1	4
Tiree	82·6	-38	SSW	4	rr	41	92	39	6	5	-	-	10	10	800	1	4
Stornoway	82·2	-34	SSE	7	ido	48	75	42	7	5	-	-	10	10	2500	2	4
Dalwhinnie	88·0	-24	SSW	4	o	39	85	35	7	5	-	-	10	10	2000	6	*
Aberdeen †	92·1	-26	S	3	c	45	85	43	7	5	-	-	9+	9+	1500	1	2
Wick	89·5	-32	SSE	5	c	43	97	42	8	3	-	3	1	9	3000	1	*
Sumburgh	92·6	-6	SE	5	c-bc	45	75	39	8	7	6	-	4-6	7-8	2200	1	3
Blacksod Point	79·7	-40	SSW	7	pr	46	75	39	7	9	-	-	10	10	1500	2	5
Malin Head	81·2	-26	SW	5	iro	39	85	35	8	5	-	-	2-3	2-3	1500	1	4
Aldergrove	86·7	-32	SE	3	roro	38	92	36	7	5	-	-	10	10	1500	1	*
Birr Castle	88·6	-6	WSW	2	b	40	85	36	8	-	-	-	0	0	-	1	*
Valentia Obsy.	90·7	-6	WS	4	b/pr	43	85	39	8	3	-	-	1	1	2500	1	5
Roches Point	92·0	0	W	3	bc	46	97	45	8	5	-	-	4-6	4-6	1500	1	5

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 20th Hrs. (38)
London (Kew)	48	43	38	-	-	5·7
Croydon	50	42	39	-	Tr	9·4
S. Farnborough	50	43	35	-	1	5·9
Boscombe Down	49	40	33	-	0·5	4·7
Thorney Island	51	44	39	Tr	Tr	*
Lympne	49	41	37	-	Tr	6·5
Manston	49	43	40	-	-	6·1
Shoeburyness	49	41	32	-	-	5·3
Felixstowe	45	37	37	-	-	5·1
Gorleston	47	43	39	-	-	4·0
Mildenhall	48	43	36	-	-	5·2
Cranwell	46	40	35	-	-	4·0
Birmingham	45	41	38	0·5	0·2	3·1
Upper Heyford	46	41	37	Tr	-	*
Ross-on-Wye	48	43	39	0·3	0·1	0·9
Hartland Point	49	48	44	0·1	0·1	0·6
Bristol	49	43	37	1	Tr	1·8
Portland Bill	49	47	*	Tr	-	*
Plymouth	51	47	44	-	2·8	3·8
The Lizard	52	46	*	1	3	2·9
Scilly (St. Mary's)	52	48	*	-	1	
Guernsey						
Pembroke	52	43	*	1	1	1·2
Holyhead (Valley)	49	46	43	0·4	0·2	*
Chester (Sealand)	51	42	38	Tr	Tr	2·0
Manchester	48	45	34	0·1	Tr	*
Spurn Head	46	41	*	-	Tr	4·4
Catterick (Sc)	47	42	37	1	0·6	2·3
Tynemouth	48	43	38	Tr	-	*
St. Abbs Head	44	38	*	1	0·4	*
Leuchars	44	37	33	6	0·3	
Renfrew (Abbots I.)	45	42	37	4	2	0·1
Eskdalemuir	42	43	40	2	3	0·0
Point of Ayre	48	45	*	3	1	0·1
Tiree	47	39	36	2	9	1·5
Stornoway	43	37		0·6	4	1·8
Dalwhinnie	38	35	31	7	1	0·0
Aberdeen †	44	38	32	Tr	1	3·0
Wick	41	35	30	2	1	*
Sumburgh	46	41	36	4	4	*
Blacksod Point	49	43	*	2	11	*
Malin Head	46	39		1	3	0·0
Aldergrove	45	37	33	Tr	6	0·3
Birr Castle	40	38	35	0·2	6	0·8
Valentia Obsy.	51	40	38	0·4	12	0·1
Roches Point	51	46	*	3	5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 20th December — 18h. G.M.T. — 01h. G.M.T. 21st December — 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	86	81745	20586	8-	25754	56684				57	02753	13324
115	27	81844	57586	37	81944	57487	87	81944	57486	52	02844	16487
203	94	62450	05									
206	36	25853	22484	30	01750	20483	57	02864	20105			
210	34	01954	22414	40	01852	22312	5-	02865	15315	53	02864	10325
219	36	81854	22685	26	01853	22584				5-	64748	18568
230	83	10845	55487	8-	25858	18488	62	64647	16288	62	64647	14468
245	84	02942	23485	50	01851	20211	5-	02765	18328	83	02855	* *
260	86	81		50	22		5-	05		57	61	
277	87	02854	53527	5-	61755	52468	5-	01744	51564	52	63646	50668
279	97	02744	53688	82	25743	53488	62	62545	53568	87	05654	20715
285	62	63								27	05	
288	86	02844	51586	5-	02756	21424	52	05654	15468	04	01792	47523
575	52	61745	55528	52	61744	16268	50	05645	51475	50	05651	53361
301				52	25754	21485	57	05665	19528	5-	05666	14626
321	86	05655	20426	5-	05657	20467	57	05663	18426	57	05654	18514
290	80	05		8-	05647	24327	5-	05		44	01	
292	53	02745	24427	5-	05657	18327	52	02763	14288			
310												
614	57	05		53	05		51	05		53	05	
333	27	02753	55527	87	05655	20428	80	25644	18584	26	02654	51786
334	--	27646	28387	--	27646	26388						
340	86	25834	18385	8-	81755	20x85	8-	02855	14488	83	81855	12487
136	03	01791	53514	07	02794	53524	07	02790	21418	53	05642	18427
336				57	05654	24428				57	05	
350	50	02861	20315	04	01793	18314	57	05663	18426	57	02744	18426
368	83	02754	24425	00	01763	20583	80	01753	22313	57	02754	18326
379	8-	81743	53585	57	25644	20485	5-	05655	20315	5-	05635	53525
390	10	05552	22315	07	45390	18241	57	08462	16213	07	05541	17414
382	54	02841	55425	50	02754	54424	5-	01754	18214	87	81746	16487
438												
430	10	01		50	05		20	25		13	02	
409	20	02853	54525	87	02854	49325	20	01753	16513	51	02743	16687

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 21st December 84
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	bc bm₀ z₀	c bc m₀	b bc c m₀ w
Croydon	bc z₀ bc	c bc bc z₀	u c m₀ bc
Greenwich	b	b	b bc c
Camden Square	b	b	*
Kensington	bc	bc	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·3 Time 17h 20th; Min. <0·1 Time 0·5h 21st

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	48	43	38	-	-	5·7	*	*
Croydon	50	42	39	-	Tr	9·4	*	*
Greenwich	50	42	34	-	-	5·9	69	80
Westminster	50	40	37	-	-		89	95
Regents Park	50	40	34	-	-		71	92
Camden Square	49	40	35	-	-	*	*	83
Kensington	46	44	36	-	Tr		84	83
Hampstead	48	40	36	-	-		*	85

SECRET

Page 1

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

Wednesday 22nd December 1943 — No. 29980

OBSERVATIONS at 13h. G.M.T. 21st December

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)	29·0	-44	S'W	5	pr	46	75	40	7	5	-	-	9+	9+	900
	Croydon ...	00·1	-42	S	5	ir.	46	85	41	7	5	7	-	9	9+	800
	S. Farnborough	28·5	-48	S'E	5	r.r.	46	85	42	6	5	-	-	10	10	600
	Boscombe Down	26·0	-56	S'W	6	rr	46	97	45	6	5	-	-	4-6	10	400
	Thorney Island	00·4	-48	S	6	PR	45	97	44	5	6	2	-	9+	10	1000
	Lympne ...	03·3	-46	SSW	5	c	44	85	39	7	5	-	3	4-6	9	1000
	Manston ...	04·2	-36	SSW	5	c	44	85	39	7	2	7	-	4-6	9	1000
2	Shoeburyness ...	03·2	-36	S	5	c	45	75	39	8	6	1	-	4-6	9+	2000
	Felixstowe ...	03·5	-34	S	6	c	44	85	38	7	5	-	-	9+	9+	2000
	Gorleston ...	03·1	-32	SSW	6	c-bc	43	85	40	7	8	4	-	7-8	7-8	800
	Mildenhall ...	99·1	-46	S'E	5	c	46	85	40	8	5	-	-	9+	9+	2000
	Cranwell ...	94·5	-60	S'E	6	c	45	85	40	7	5	7	-	9	9+	2000
3	Birmingham ...	92·5	-54	SSE	5	rr	45	97	44	7	6	-	-	10	10	800
	Upper Heyford	95·7	-52	S	5	r.r.	44	92	42	6	6	-	-	9	10	400
4	Ross-on-Wye	91·7	-50	SW	6	ir.	46	92	44	5	6	-	-	10	10	800
5	Hartland Point	93·4	+6	WSW	4	c-bc	45	85	39	8	5	6	-	4-6	7-8	1500
	Bristol ...	93·7	-58	SW	6	rr	47	92	45	5	6	2	-	7-8	10	500
	Portland Bill ...	98·0	-50	S	5	rr	49	92	47	7	5	-	-	10	10	2500
	Plymouth ...	96·0	-20	W'S	5	pr	46	92	43	6	5	3	-	4-6	9	1000
	The Lizard ...	96·4	+6	SEE	6	bc/r	48	78	41	6	2	6	1	4-6	4-6	2500
	Scilly (St. Mary's)	95·8	0	W	6	c-bc/pr	49	65	38	8	8	6	-	4-6	7-8	1200
	Guernsey ...															
6	Pembroke ...	91·2	-20	W'N	6	bcq	47	85		7	2	-	-	4-6	4-6	2000
7	Holyhead (Valley)	88·9	-20	S'W	3	pr	42	85	38	8	8	7	-	7-8	9	1000
	Chester (Sealand)	92·6	-14	W	1	r.r.	40	85	35	7	6	2	-	2-3	10	800
8	Manchester ...	91·7	-38	WSW	5	rr	39	92	36	6	6	2	-	4-6	10	1000
10	Spurn Head ...	95·9	-46	S	7	c	43	92	41	6	8	-	-	9+	9+	2500
	Catterick (Sc.) ...	90·6	-50	SSE	5	r.r.	43	97	43	4	6	2	-	10	10	600
	Tynemouth ...	89·7	-48	S	8	o/r	45	85	40	6	6	-	-	10	10	1500
11	St. Abbs Head	85·0	-54	S	7	rr	42	92	40	6	5	-	-	10	10	1500
	Leuchars ...	85·8	-26	S	5	c/r	44	92	42	6	5	7	-	7-8	10	2000
12	Renfrew (Abbotsl.)	84·9	-18	SSE	2	c	42	92	39	7	5	7	-	4-6	9+	1600
	Eskdalemuir ...	86·7	-14	S'W	4	c	39	92	36	8	5	-	-	10	10	900
	Point of Ayre ...	86·2	-20	WSW	3	RR	44	92	41	8	6	7	-	7-8	9	2000
13A	Tiree	77·2	-26	S	6	c-bc/pr	45	75	37	8	8	6	-	2-3	7-8	1500
13B	Stornoway ...	78·4	-20	SSE	6	bc	46	75	38	8	8	6	-	4-6	4-6	1600
15	Dalwhinnie ...	83·0	-4	S	4	c	37	75	31	7	5	7	-	7-8	9	1000
	Aberdeen ...	86·6	-32	S	6	rr	44	92	42	6	6	2	-	9	10	800
	Wick ...	83·7	-36	SSE	7	c/r	46	92	44	8	5	7	-	7-8	9+	800
16	Sumburgh ...	89·0	-20	SE	6	c	47	92	44	8	5	-	-	10	10	1200
17	Blacksod Point	88·1	+16	W'S	6	PR	46	85	42	7	9	-	-	10	10	1500
18	Malin Head ...	77·7	-10	S	6	pr	42	85	38	8	8	-	-	9+	9+	2500
	Aldergrove ...	83·0	-22	S'W	5	c-bc	43	78	35	8	5	7	8	4-6	7-8	2000
19	Birr Castle ...	84·8	-34	SW	4	pr	42	85	38	7	9	2	-	7-8	10	800
20	Valentia Obsy.	91·1	+2	W'N	5	c/pr	44	85	40	8	9	7	-	7-8	9+	1800
	Roches Point	90·4	-18	W	5	bc	47	85	43	8	3	-	3	1	4-6	1500

OBSERVATIONS at 18h. G.M.T. 21st December

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 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)
35·5	0	SSW	3	bc/r	43	92	41	5	5	-	-	4-6	4-6	1100	1	*
35·6	-6	S	3	c/r	42	92	40	6	5	-	-	9	10	2500	1	*
35·6	+2	SSW	3	b-bc	40	92	37	7	8	-	-	2-3	2-3	2000	1	*
35·8	+4	SW	3	b	38	97	37	7	-	-	7	0	1	-	1	*
36·9	-6	SW	3	z.	44	92	42	6	8	3	-	4-6	7-8	1800	1	*
36·6	-42	SSW	6	rr	44	97	44	6	5	-	-	10	10	500	1	§6
38·5	-32	S	6	r.r.	43	92	41	6	-	2	-	10	10	1300	1	*
36·7	-34	S	6	r.r.	45	92	43	6	5	-	-	10	10	1500	1	*
38·0	-38	SE	7	r.r.	43	92	41	6	5	-	-	10	10	3000	1	5
39·6	-34	SSW	8	r.r	44	75	37	7	6	-	-	10	10	600	1	6
39·4	-18	SW	3	ir	40	97	39	6	5	-	-	7-8	10	1000	1	*
32·3	+8	SW	6	z.	42	85	38	6	5	-	-	9	9	2500	1	*
31·9	-4	S	3	z.	38	92	35	6	-	-	-	0	0	-	1	*
34·2	+6	SW'W	3	pr	40	97	39	6	5	-	-	10	10	1700	1	*
32·4	-4	SW	3	b	41	85	36	7	5	-	-	Tr	Tr	2500	1	*
33·3	0	W	5	c-bc/pr	44	85	40	7	3	2	-	4-6	7-8	1500	1	5
34·0	-2	SSW	5	b	41	85	36	8	4	-	-	1	1	2000	1	*
37·0	+4	W	5	c-bc	47	92	45	8	5	-	-	7-8	7-8	4500	1	6
36·3	+10	W	5	c-bc/pr	46	75	40	7	3	-	-	7-8	7-8	3000	1	4
37·6	+6	W	6	pr	47	75	38	7	8	-	-	4-6	4-6	2500	1	5
37·9	+14	W	6	bc/pr	46	75	40	8	8	-	-	4-6	4-6	1200	1	6
30·7	+6	NW	8	bcq	47	75	40	8	8	-	-	4-6	4-6	2000	1	5
28·8	-2	WSW	7	pr	45	85	40	7	8	7	-	7-8	9+	2500	1	5
28·6	-10	S'W	3	c	38	85	34	7	5	7	-	7-8	9+	2500	1	*
29·3	-10	S'E	4	z.	37	92	35	6	4	-	-	1	1	3000	1	*
31·4	+6	SW	5	c	44	92	42	6	9	-	-	9+	9+	1500	1	5
28·0	-6	SSE	4	bc	37	92	35	7	5	-	-	4-6	4-6	2000	1	*
27·5	-10	SW	3	z.	39	85	35	5	2	-	-	2-3	2-3	1500	1	3
24·8	-4	SSW	4	bc	37	85	34	7	4	4	-	4-6	4-6	2500	0	4
23·4	-14	S	3	z.	39	85	35	6	5	-	-	1	1	2000	1	*
21·4	-18	SSE	2	b-bc/pr	42	85	38	5	5	-	-	2-3	2-3	2500	1	*
23·4	-18	SE	3	ir.	37	85	33	8	5	-	-	9	3	1400	1	*
22·7	-32	WSW	4	RR	43	85	38	8	6	-	-	4-6	4-6	2000	1	2
16·3	-4	S	4	pr.	45	85	40	7	8	-	-	10	10	1500	1	4
18·8	+8	SSE	4	ir.	44	75	36	7	5	-	-	9+	9+	1000	1	4
	-20	SSE	4	bc	36	85	32	7	5	-	-	4-6	4-6	2500	4	*
36·6	-12	S	3	m	43	75	37	4	5	-	-	10	10	2500	1	3
32·8	-2	S	4	c-bc	43	85	38	8	5	-	-	7-8	7-8	2500	1	*
26·2	-22	SE	5	c/pr	46	92	44	7	9	7	-	9+	10	1400	1	3
27·1	+28	WNW	7	bc	46	75	39	7	9	-	-	4-6	4-6	1500	2	6
26·6	+2	WSW	5	ir.	43	85	39	8	5	2	-	2-3	9+	1500	1	4
32·2	-16	S'W	4	pr	41	92	39	7	5	-	-	10	10	900	1	*
28·5	+32	NSW	3	b-bc	43	75	36	8	3	-	-	2-3	2-3	1500	1	*
26·9	+34	WNW	6	pr	47	65	36	8	3	-	-	7-8	7-8	2500	1	6

PAST 24 HOURS.

Weather. 7h.–13h. 21st... (39)	13h.–18h. 21st. (40)	18h. 21st to 1h. 22nd (41)	1h.–7h. 22nd (42)
cm. pr.	ir. r. kq. bc. bc. m.	bc. m.	bc. m.
c. m. c. ci. r.	cr. r. m. c. m. bm.	bm. bc. z.	bm. bc. z.
cbbc. ci. r. r. m.	cr. r. m. bc. bc. pr. b	b. cbc	b. cbc
bc. ci. r. cr. r.	crr. cp. r. c.	bbcc. r. cbbcb	bbcb
cq. pr. m.	cp. r. m. cr.	bcm. bm.	bc. z. bz.
bc. m. wc	c. cm. r. mr	c. m. w	bc. m. wc. m.
c	c. z. m. r. r. c. b. cm.	bc. m.	bc. m.
bc. wc	cp. r. crr	crr	cm.
bbc	cr. r. m.	cr. c. m. bm.	bm. c. pr. m.
bc. cq	cq. orr	b	bb. c. z.
bcc	c. cr. r.	cir. m. bm.	bbc. c.
c	cir. m. c. m. bm.	cp. r. m.	
com	prr. bz	cpr.	cpr.
dd. r. r. c. m.	t. r. r. m.	cp. r. bm. c. m.	cm. pr. c
r. c. q. r	rc. cp. b	cr. b. c	bcq.
rr. c.	ch. phr. pr. b	cp. r. bc	bc. bc
cm. p. c. ir. r.	cr. r. m. b.	cp. r. b. cbm.	bb. cb
corr	c	cbc	bcc
cir. r. c	cp. r. b. cph	bcp. r.	b
crr. bc	cb. cpr	cpr. cq	bc
rr. cp	cp. p	bcp	bc. p.
cirq. bc	cir. bc. cq	bcq	cbq
ciro	bcc. pr. c	cp. r. prom	cbc
pr. r. r. c	bc	r. r. cr. b. c. PR	pr. b. crr. c
r. r. s. Rtt	r. ir. r. m.	pr. c	pr. pr. m.
cm.	cm.	bc	cir
cm. c. r. m	cbc	cp. r. m.	c. pr. m.
bc. cq. m. orr	oir. b. c. m.	b. q. b. c. m.	bcp. r. bc
cr. c. m. r. r	cm. r. c	cb. c. b. cm.	m. c. cb. c
cir. c. m.	cp. r. m. c	bcc. ir. m.	cir. m. b. c
cpr. r. m. t	c. t. m. c. k. c.	cp. pr. m. c. r. c.	cbcc
crr. c	cr. ir.	crr. m. c	cp. r. c
RRc	bc. ir. b. c	cm. r. r. c	cp. r. b. c
crr. m. bc. cp. r. c	cc. pr.	cp. r. b. c	cp. r. b. cy. pr.
cir. r. c. b. c	bcc. pr.	pr. cp. r. b. b. c. c	cp. r. cm. m. c
orr. c. z	cb. c		bc. ir. z. o
c. z. c. r. r. z.	om. r. r.	c. z. b. c. c. r. om.	ci. r. m. b. x. m.
cir. cr. r.	cc. r. r. c	cp. r. b. c. b	bc. c. b
cir. c	cp. r.	c. r. r.	cir. pr
pr	pr	pr	bc
pr	r	pr	pr
cr. c. bc	bc. c. pr.	cp. r. c. p. r.	cp. r. b. c. b
pr	pr	*	bc
pr	pr	pr	pr
bc			

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 22nd December 1943

Districts	
1 S.E. England	Fresh west to northwest winds, moderating; fair; visibility poor locally in morning; rather cold, with local ground frost tonight.
2 E. England	
3 E. Midlands	
4 W. Midlands	Fresh or strong west to northwest winds, moderating; showers in most parts today, becoming fine tonight; visibility poor locally in morning near industrial areas; rather cold, with local ground frost tonight.
5 S.W. England	
6 South Wales	
7 North Wales	Strong to gale northwest winds, backing and moderating; squally thundery showers of rain and hail at first, gradually becoming fair; cold.
8 N.W. England	
9 N. Midlands	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13A W. Scotland	
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	Moderate south to southwest winds, veering northwest strong
16 Orkneys and Shetlands	to gale, then moderating; squally thundery showers of rain and hail, with risk of local thunder; cold.
~~17 N.W. Ireland~~	As 19-20
18 N.E. Ireland	As 7-14
19 S.E. Ireland	Moderate westerly winds backing and freshening tomorrow;
20 S.W. Ireland	scattered showers today; fair in morning; rather cold.

GENERAL INFERENCE

Depressions just north and east of Scotland are moving northeast, and a ridge of high pressure is approaching the British Isles from the Atlantic; there will be showers in most areas today, becoming fair tonight, except in the northeast; strong to gale winds in most areas, will moderate.

FURTHER OUTLOOK

Rain spreading east across the British Isles.

Gale warning in operation in districts 16, 15, 14, 13A 13B, 12, 11, 10, 9, 8, 2 (part of) issued at 0410 22-12-43 areas 18, 17, 13A, 12, 8, 7 4 3 (part of) issued at ~~22-35 21-12-43~~.

Forecasts issued at 10·30

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

7h. Wednesday 22nd December 1943.

994 992 990 988 986 984 982 996 998 1000 1002 1004 1006 1008 1010

LOW

HIGH

10° 5°W. 0° 5°E. 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

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

Scale 1.: 5,000,000

Mb. In.

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 22nd December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Wednesday 22nd December 1943 — No. 29580

OBSERVATIONS at 1 hr. G.M.T. 22nd December

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	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon ...	290	36·8	+6	SSW	5	Zo	41	85	37	6	5	–	–	1	1	2000
	S. Farnborough	226	35·9	+6	SW'N	5	b	40	92	37	7	5	–	–	1	1	3000
	Boscombe Down	417	36·7	+6	WSW	4	b	39	92	37	7	–	–	–	0	0	–
	Thorney Island	10	37·3	+6	WSW	4	Zo	43	85	38	6	5	–	–	1	1	2000
	Lympne ...	341	36·9	0	W	3	Zo	39	85	36	6	5	–	–	4-6	4-6	3000
	Manston ...	154	36·7	-2	WSW	3	Zo	41	85	38	6	5	–	–	2-3	2-3	1700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	34·3	-10	SW'S	4	Zo	41	85	38	6	5	–	–	2-3	2-3	2000
	Gorleston ...	5	34·2	-2	SW	3	b	40	97	39	7	–	–	–	0	0	–
	Mildenhall ...	15	32·8	-6	SW	4	b	39	92	37	7	–	–	–	0	0	–
	Cranwell ...	203	30·2	-4	W'S	6	Zo	40	92	38	6	5	–	–	2-3	2-3	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	33·3	-2	NSW	4	Zo	39	92	37	6	5	–	–	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	37·7	+20	NW	5	bc	46	75	39	8	4	–	–	4-6	4-6	2500
	Bristol ...	209	35·7	+6	W'S	4	b-bc	43	75	37	7	5	–	–	2-3	2-3	2500
	Portland Bill ...	32	38·1	+4	W	5	b-bc	45	92	43	8	5	–	–	2-3	2-3	5000
	Plymouth ...	86	39·8	+14	W'N	4	b/pr	45	75	39	7	3	–	–	1	1	2000
	The Lizard ...	240	01·4	+16	NW	7	bc/pr	46	75	39	7	8	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	01·7	+18	WNW	6	bc/pr	47	65	37	8	8	–	–	4-6	4-6	1200
	Guernsey ...	175															
6	Pembroke ...	142	36·4	+14	WNW	7	bcq	46	75	37	8	3	–	–	4-6	4-6	2500
7	Holyhead (Valley)	32	38·8	+20	NNW	8	c	45	75	39	7	8	6	–	4-6	9	3500
	Chester (Sealand)	16	39·1	+6	W'S	4	pr	42	85	37	6	8	–	–	10	10	2300
8	Manchester ...	230	38·1	-2	SW	6	pr	41	85	38	5	9	–	–	10	10	1700
10	Spurn Head ...	29	39·7	-10	SSW	5	bc	40	92	38	7	7	–	–	4-6	4-6	1500
	Catterick (Sc.) ...	192	35·0	-8	SSE	4	pr	39	97	39	5	8	–	–	10	10	1600
	Tynemouth ...	108	33·2	-12	S	5	Zo	39	85	35	6	–	3	–	0	2-3	–
11	St. Abbs Head	280	32·1	-4	S	4	bc	36	85	33	6	5	–	–	4-6	4-6	2500
	Leuchars ...	31	32·0	-2	SE	2	ic	39	75	31	5	5	1	–	9	10	2000
12	Renfrew (Abbotsl.)	19	31·8	+20	–	0	c	38	92	36	6	5	–	–	10	10	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	32·0	+16	NNW	6	ic	45	85	40	8	8	–	–	9+	9+	2000
13A	Tiree	44	35·2	+56	NNW	7	pr	41	92	39	7	8	–	–	10	10	1200
13B	Stornoway ...	12	32·6	+18	W	3	bc	40	85	37	7	8	–	–	4-6	4-6	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	33·8	-2	S	2	ic	39	97	39	6	5	–	–	9	9	3000
	Wick ...	114	32·5	+2	SW	2	b-bc	39	92	37	7	5	–	–	2-3	2-3	3000
16	Sumburgh ..	15	33·4	-14	SE	5	bc	45	92	43	6	5	2	–	4-6	10	1000
17	Blacksod Point	18	37·3	+42	WNW	6	bc	44	66	33	7	9	–	–	4-6	4-6	1500
18	Malin Head ...	84	36·1	-38	NW	8	pr	46	75	38	8	8	–	–	9	9	1500
	Aldergrove ...	294	35·7	+38	WN	6	pr	43	85	38	7	8	–	–	10	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	03·1	+22	WNW	5	b-bc/pr	48	65	34	8	3	–	–	2-3	2-3	2500
	Roches Point	22															

OBSERVATIONS at 7 hr. G.M.T. 22nd December

District	Stations	Baromr. 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)	37·1	+10	WSW	4	Zo	43	75	36	6	5	–	–	9+	9+	900	1	*
	Croydon ...	37·7	+12	SSW	5	Zo	43	75	35	6	5	7	–	7-8	9	1500	1	*
	S. Farnborough	38·4	+14	SW'N	5	bc	42	75	36	8	5	–	–	4-6	4-6	2500	1	*
	Boscombe Down	00·1	+8	WNW	5	bjp	41	75	33	7	5	–	–	1	1	4000	1	*
	Thorney Island	00·1	+18	WSW	5	Zo	44	75	35	6	–	3	–	0	1	–	1	*
	Lympne ...	38·7	+10	W	4	Zo	38	92	36	6	5	–	–	9	9	3500	1	*6
	Manston ...	37·5	+6	WSW	4	Zo	41	75	35	6	5	–	7	7-8	10	2500	1	*
2	Shoeburyness ...	37·7	+4	SW	4	Zo	43	75	36	5	5	–	–	4-6	4-6	2500	1	*
	Felixstowe ...	35·3	+6	SW	5	c/pr	42	85	37	6	5	–	–	10	10	3300	1	4
	Gorleston ...	33·2	-6	WSW	4	Zo	42	75	36	6	5	–	–	9	9	1500	1	4
	Mildenhall ...	33·9	+14	SW'N	4	c	43	75	38	8	5	–	–	9	10	2000	1	*
	Cranwell ...	31·1	+10	W	8	pr	42	85	38	6	5	–	–	10	10	1500	1	*
3	Birmingham ...	34·5	+16	N	5	pr	41	85	36	7	6	7	–	2-3	7-8	800	1	*
	Upper Heyford	35·5	+20	W	5	bc	41	85	35	7	5	–	–	4-6	4-6	2800	1	*
4	Ross-on-Wye	37·6	+28	W'S	6	b-bcq	43	75	34	8	5	–	–	2-3	2-3	2500	1	*
5	Hartland Point	02·4	+24	NNW	6	b-bc	45	65	35	8	1	–	–	2-3	2-3	2500	0	5
	Bristol ...	00·2	+34	N	4	b	41	75	34	7	5	–	–	1	1	5000	1	*
	Portland Bill ...	01·7	+26	W	5	c-bc	47	92	45	8	5	–	–	7-8	7-8	5000	1	
	Plymouth ...	04·0	+20	W'N	4	b-bc	43	75	35	7	3	4	–	4	2-3	2500	1	3
	The Lizard ...	05·2	+20	NW	6	bc	46	65	36	6	8	–	–	4-6	4-6	3500	1	5
	Scilly (St. Mary's)	06·6	+24	NNW	5	bc	46	65	33	8	8	6	–	2-3	4-6	1200	1	5
	Guernsey ...																	
6	Pembroke ...	02·0	+20	NW	6	b-bcq	46	79	37	8	2	–	–	2-3	2-3	2500	1	4
7	Holyhead (Valley)	36·6	+46	NNW	7	b-bc	44	65	34	8	8	–	–	2-3	2-3	2500	1	6
	Chester (Sealand)	33·4	+34	NNW	7	r6c	44	75	38	6	5	–	–	10	10	1500	1	*
8	Manchester ...	32·0	+22	NNW	5	pr	42	92	40	5	9	–	–	10	10	1600	1	*
10	Spurn Head ...	39·1	-2	SW	4	rr	42	85	39	7	8	–	–	10	10	1500	1	4
	Catterick (Sc.) ...	38·1	+38	NNW	4	Zo	40	92	38	6	8	–	–	4-6	7-8	2500	1	*
	Tynemouth ...	36·9	+34	NNW	3	bc	40	85	35	7	2	–	–	4-6	4-6	2500	1	3
11	St. Abbs Head	36·4	+32	WNW	4	b-bc	39	85	36	7	5	4	–	2-3	2-3	2500	0	3
	Leuchars ...	38·0	+36	WSW	3	b-bc	35	97	34	7	5	3	–	2-3	2-3	4000	1	*
12	Renfrew (Abbotsl.)	30·8	+46	WNW	3	c	41	75	35	8	5	7	–	4-6	9	2000	1	*
	Eskdalemuir ...	39·0	+50	NW	3	c	39	75	33	7	5	1	–	10	10	1100	1	*
	Point of Ayre ...	31·9	+52	NW	6	c	45	75	38	8	9	9+	–	9	9+	2000	1	5
13A	Tiree	33·1	+36	NNW	6	bc/pr	41	92	39	7	2	–	–	4-6	4-6	1800	1	5
13B	Stornoway ...	37·1	+18	WNW	6	c	41	65	31	7	5	–	–	9	9	2500	1	5
15	Dalwhinnie ...	37·0	+28	NW	3	rs	35	85	31	4	5	–	–	10	10	1500	4	*
	Aberdeen † ...	36·3	+20	NW	2	b-bc	38	92	36	6	5	–	–	2-3	2-3	2500	1	1
	Wick ...	35·1	+10	SW	1	b	37	92	35	7	5	–	1	Tr	1	3000	1	*
16	Sumburgh ..	35·6	+14	SSE	6	c-bc/phr	43	85	39	8	2	–	–	7-8	7-8	2100	1	3
17	Blacksod Point	02·2	+14	WNW	5	c-bc	45	65	34	8	8	–	–	7-8	7-8	1500	1	4
18	Malin Head ...	35·0	+34	NW	7	pr	44	65	33	8	8	–	–	4-6	4-6	1500	2	6
	Aldergrove ...	36·2	+46	WNW	4	b	40	75	32	7	2	–	–	1	1	2000	1	*
19	Birr Castle ...	02·4	+26	NNW	1	b-bc	37	85	33	8	–	2	–	0	2-3	–	1	*
20	Valentia Obsy.	06·8	+14	NW	5	b-bc/pr	43	75	35	8	3	–	–	2-3	2-3	2400	1	5
	Roches Point																	*

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 21st Hrs. (38)
1	London (Kew)	47	40	35	3	–	0·0
	Croydon ...	46	39	36	10	Tr	0·0
	S. Farnborough	47	39	31	5	0·2	0·1
	Boscombe Down	47	36	30	6	1	0·0
	Thorney Island	47	42	37	9	–	*
	Lympne ...	45	37	32	2	2	0·0
	Manston ...	45	39	34	4	0·5	0·6
2	Shoeburyness ...	46	39	37	1	3	0·4
	Felixstowe ...	45	39	36	1	2	1·2
	Gorleston ...	46	39	33	1	3	1·4
	Mildenhall ...	46	35	32	4	0·5	0·4
	Cranwell ...	47	37	35	2	Tr	0·4
3	Birmingham ...	45	38	34	9	0·5	0·0
	Upper Heyford	45	38	34	6	0·3	*
4	Ross-on-Wye	47	41	36	10	0·6	0·2
5	Hartland Point	49	43	41	5	1	0·5
	Bristol ...	48	40	34	8	4	0·6
	Portland Bill ...	49	43	*	6	–	*
	Plymouth ...	51	42	35	4	1	1·1
	The Lizard ...	50	43	*	2	2	2·3
	Scilly (St. Mary's)	51	44	*	6	0·1	3·4
	Guernsey ...						
6	Pembroke ...	50	44	*	21	0·1	1·4
7	Holyhead (Valley)	49	43	41	12	0·2	*
	Chester (Sealand)	47	38	35	4	6	1·3
8	Manchester ...	48	36	33	9	5	*
10	Spurn Head ...	44	39	*	Tr	Tr	0·0
	Catterick (Sc.) ...	43	35	26	6	7	0·0
	Tynemouth ...	46	37	34	1	0·4	*
11	St. Abbs Head	46	35	*	3	–	*
	Leuchars ...	46	35	31	0·2	Tr	0·0
12	Renfrew (Abbotsl.)	47	37	29	7	2	1·2
	Eskdalemuir ...	43	34	30	7	6	0·0
	Point of Ayre ...	47	42	*	8	1	1·7
13A	Tiree	46	38	36	1	7	1·9
13B	Stornoway ...	45	33	29	3	3	1·7
15	Dalwhinnie ...	41	32	31	8	3	0·2
	Aberdeen † ...	46	37	31	5	0·5	0·0
	Wick ...	46	37	32	0·3	Tr	*
16	Sumburgh ..	47	42	38	0·1	5	0·0
17	Blacksod Point	48	42	*	2	0·1	*
18	Malin Head ...	45	41		1	1	0·9
	Aldergrove ...	43	39	34	0·6	3	2·2
19	Birr Castle ...	45	36	33	3	–	1·0
20	Valentia Obsy.	48	43	39	1	0·2	0·3
	Roches Point			*			*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 21st December — 18h. G.M.T. — 01h. G.M.T. 22nd December — 7h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	5-	61648	45628	5	02744	48428	57	01653	19324	57	05655	18315
115				24	02864	16324	54	02854	24226	52	81844	61587
203												
206	53	02854	16326	8-	01853	14323	57	02964	00065	57	61853	22467
210	57	02844	11327	47	01844	14326	53	02865	12216	57	61855	22467
219	80	02855	14686	30	25844	17384				80	01855	61785
230	56	02855	14267	5-	01755	14125	8-	81758	32388	8-	81856	28586
245	52	22647	42568	57	01753	17424	57	05554	12228	50	05673	18113
260	57	02		//	81545	12225				50	08	
277	50	01863	18514	8-	02843	52425	8-	25744	61684	8-	81745	62885
279				8-	82755	49467	57	22654	18268	86	05644	22525
285	62	63								62	26	
288	57	22744	47667	00	00730	17460	8-	81655	48585	8-	05658	23388
575	86	81744	55243	9-	81645	59786	32	25644	59686	90	01764	62604
301	5-	62535	20468	40	08463	13413	5-	81748	85344	4-	25768	27688
321	5-	61844	49586	00	05590	24210	50	05653	17413	5-	25658	55488
299	8-	62		//	22644	22464	50	05		80	02	
298	5-	22648	14668	00	17590	16360	5-	05658	14388	3-	01853	28983
310												
314	5-	62		00	05		5-	81		57	81	

13h. G.M.T. 21st December — 18h. G.M.T. — 01h. G.M.T. 22nd December — 7h. 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	33	25855	18487	32	25755	53588	8-	05665	57887	20	05654	57714
334	--	23645	28276				--	65537	26488	--	65537	26588
340	62	64635	24168	5-	01762	51412	5-	25844	53684	8-	81858	55488
136	57	02835	49527	52	64656	50668	50	05662	20462	8-	02757	53587
										62	61526	28668
230	52	22754	24467	--	48200	30419						
350	5-	61734	49528	50	01643	18363	50	05653	20414	5-	02757	23687
368	57	22744	24465							40	01753	61523
379	5-	62645	49688	50	25663	18383				8-	02754	59525
390	5-	05638	18428	52	62536	16358	50	05552	20212	57	05656	24418
382	5-	22635	49568							50	01863	24413
438	17	02		8-	64648	20668	80	01				
430	52	62		5-	05646	24226				03	01	
409	87	02845	22566	3-	82847	55627	20	05653	25583	26	01754	59684

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 December, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew ...	cmopro	irorkq/bc	bcm6	
Croydon ...	cmocirc	cfcrsm6	bm6bc2	Kew 24 hours ended 7h.
Greenwich ...	c	crqqr	bbcbc	Max. Time 0·3 17–18h 21st
Camden Square	c	cr	*	
Kensington ...	bcpcr	crbc	*	Min. Time 0·1 0–5h 22nd
Hampstead ...	bcor	or	orbc	

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	47	40	35	3	–	0·0	*	*
Croydon ...	46	39	36	10	Tr	0·0	*	*
Greenwich ...	47	39	33	5	–	0·0	90	67
Westminster ...	48	41	35	3			96	94
Regents Park ...	47	40	35	3	–		81	68
Camden Square	47	40	34	3	–	*	*	74
Kensington ...	43	40	33	4	–	0·2	90	73
Hampstead ...	50	37	31	3	0·2		*	78

SECRET

Page 1

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

Thursday 23rd December 1943 — No. 29981

OBSERVATIONS at 13h. G.M.T. 22nd December

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)	029	+16	W	4	zo	45	65	32	6	1	–	–	2-3	2-3	2800
	Croydon ...	03·4	+12	W	4	zo	45	65	32	6	1	–	–	2-3	2-3	3000
	S. Farnborough	03·8	+20	W'S	5	b	45	65	34	8	1	–	–	Tr	Tr	2500
	Boscombe Down	05·1	+22	WNW	5	b	45	85	40	8	1	–	–	1	1	2000
	Thorney Island	05·2	+20	WN	5	b	46	65	34	7	1	–	–	Tr	Tr	3500
	Lympne ...	02·8	+14	WNW	4	bl	46	65	34	7	–	–	1	1	1	–
	Manston ...	01·7	+18	WN	4	b	45	65	33	7	5	–	–	1	1	3500
2	Shoeburyness ...	01·9	+20	SW	4	zo	45	75	36	6	5	–	–	4-6	4-6	3000
	Felixstowe ...	99·7	+34	WN	5	bc	45	65	34	7	5	–	–	4-6	4-6	2500
	Gorleston ...	96·5	+8	NW	4	zo	44	85	39	6	3	–	–	4-6	4-6	3000
	Mildenhall ...	99·4	+30	W	5	cbc	45	75	37	8	5	3	–	4-6	7-8	2000
	Cranwell ...	98·5	+30	W	5	bc	44	75	35	7	7	3	–	2-3	4-6	2500
3	Birmingham ...	01·3	+34	WNW	5	b	43	65	33	7	1	–	–	1	1	1500
	Upper Heyford	01·6	+18	WNW	5	bbc	44	75	32	8	1	–	–	2-3	2-3	3000
	Ross-on-Wye	63·3	+16	W	4	b	45	55	31	8	7	–	–	1	1	3000
5	Hartland Point	06·4	+10	WNW	4	bc	47	65	36	8	2	–	–	4-6	4-6	4000
	Bristol ...	05·4	+20	W	4	zo	44	75	35	6	1	–	–	Tr	Tr	3000
	Portland Bill ...	06·3	+14	W	5	bc	47	92	45	8	1	–	–	4-6	4-6	5000
	Plymouth ...	08·2	+12	WNW	4	bc	48	65	36	8	1	–	4	4-6	4-6	2500
	The Lizard ...	08·8	+12	W'N	8	bc/pr	48	92	46	8	2	3	2	2-3	4-6	3000
	Scilly (St. Mary's)	09·8	+12	WNW	4	cbcjp	50	65	40	8	3	4	–	4-6	7-8	1200
	Guernsey ...															
6	Pembroke ...	06·2	+4	NW	4	bbcg	47	65	34	8	2	4	–	2-3	2-3	2500
7	Holyhead (Valley)	02·5	+12	WNW	6	bbc	45	75	37	8	2	6	–	2-3	2-3	2500
	Chester (Sealand)	00·2	+18	WNW	6	bc	44	65	34	8	2	6	–	2-3	4-6	2500
8	Manchester ...	99·6	+22	WNW	4	cbc/pr	41	85	38	6	2	6	–	4-6	7-8	2000
10	Spurn Head ...	95·4	+26	WNW	6	cbc	44	75	36	6	5	3	–	4-6	7-8	1500
	Catterick (Sc.) ...	95·8	+36	WNW	4	bc	43	65	33	8	2	6	–	2-3	4-6	3500
	Tynemouth ...	94·1	+26	W	4	zo	43	65	33	6	2	3	–	2-3	2-3	2100
11	St. Abbs Head	91·9	+22	WNW	4	cbc	41	65	30	7	5	3	–	4-6	7-8	2500
	Leuchars ...	92·2	+10	W	4	b-bc	42	75	33	8	5	3	–	1	2-3	3500
12	Renfrew (Abbots I.)	95·8	+14	WSW	4	bc/pr	38	85	35	8	3	3	–	4-6	4-6	1600
	Eskdalemuir ...	95·5	+34	NW	4	bc	40	75	31	8	7	–	–	4-6	4-6	1800
	Point of Ayre ...	98·7	+22	NW	6	bc	44	75	37	8	3	6	–	1	4-6	2500
13A	Tiree	96·0	+6	WNW	4	bc	43	65	33	8	3	6	–	4-6	4-6	2000
13B	Stornoway ...	90·9	+14	WNW	5	bc	42	65	30	8	8	3	–	2-3	4-6	2500
15	Dalwhinnie ...	92·8	+10	WNW	4	bc	38	65	22	8	7	–	–	4-6	4-6	2500
	Aberdeen ...	89·8	+12	WNW	4	c	41	65	30	8	5	9	3	4-6	9	7200
	Wick ...	86·9	−2	W'S	6	pr	40	92	38	8	5	7	–	7-8	9+	1500
16	Sumburgh ...	85·5	−8	SE	5	pr	44	85	41	8	8	6	3	2-3	9	1400
17	Blacksod Point	03·4	+2	W'N	5	cbc/pr	45	85	40	8	9	–	–	7-8	7-8	1500
18	Malin Head ...	97·6	+6	NW	5	pr	42	75	35	8	8	–	–	4-6	4-6	1500
	Aldergrove ...	00·1	+6	WSW	3	bc	41	85	36	7	3	4	3	2-3	4-6	2000
19	Birr Castle ...	04·2	+2	SSW	1	b-bc	46	75	39	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy.	07·3	−8	W'S	4	pr	47	75	40	8	3	7	3	2-3	3+	2500
	Roches Point	07·1	−6	W	4	bc	45	85	41	8	6	–	5	1	4-6	1500

OBSERVATIONS at 18h. G.M.T. 22nd December

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	05·9	+14	WSW	3	zo	40	75	34	5	–	–	–	0	0	–	1	*
	Croydon ...	06·7	+22	SW	4	zo	40	75	33	5	–	–	–	0	0	–	1	*
	S. Farnborough	06·7	+6	WSW	4	b	39	85	34	7	–	4	–	Tr	Tr	2000	1	*
	Boscombe Down	07·3	+14	W	S	b	38	85	33	7	–	6	–	0	1	–	0	*
	Thorney Island	07·5	+10	W'N	4	zc	41	75	35	6	–	3	–	0	1	–	1	*
	Lympne ...	06·6	+20	W	3	zo	38	85	33	6	–	–	–	0	0	–	1	*
	Manston ...	05·4	+18	W'S	3	zo	40	75	32	6	5	–	–	2-3	2-3	5000	1	*
2	Shoeburyness ...	05·8	+20	SW	3	zo	41	75	34	5	5	–	–	2-3	2-3	3000	1	*
	Felixstowe ...	04·1	+30	W	4	b	41	75	33	7	5	–	–	1	1	4000	0	4
	Gorleston ...	01·9	+36	W	3	zo	41	75	33	6	5	–	–	2-3	2-3	2000	0	2
	Mildenhall ...	00·3	+22	WSW	3	b	38	85	33	7	–	4	–	0	1	–	1	*
	Cranwell ...	02·1	+14	W	4	zo	38	85	35	6	5	–	–	1	1	4000	0	*
3	Birmingham ...	04·4	+2	WSW	4	b	39	75	32	7	5	–	–	1	1	2500	1	*
	Upper Heyford	05·1	+16	WSW	3	b	38	75	31	8	–	–	–	0	0	–	1	*
	Ross-on-Wye	06·0	+8	W'S	3	b-bc	40	75	31	8	5	–	–	2-3	2-3	3000	1	*
5	Hartland Point	06·8	+2	NW	4	cbc/pr	46	75	39	8	8	–	–	7-8	7-8	2500	1	4
	Bristol ...	07·2	+12	W	1	zo	37	85	33	6	2	–	–	Tr	Tr	2000	1	*
	Portland Bill ...	07·8	+6	W	4	bc	46	92	44	8	5	–	–	4-6	4-6	5000	1	5
	Plymouth ...	09·0	+10	WSW	3	bc	46	75	40	6	3	6	1	4-6	4-6	2000	1	3
	The Lizard ...	09·1	−2	WNW	4	bc/pr	45	75	39	7	8	–	–	4-6	4-6	2000	1	4
	Scilly (St. Mary's)	09·0	−2	WSW	3	c/pr	45	75	38	8	8	6	–	7-8	8+	1500	1	4
	Guernsey ...																	
6	Pembroke ...	05·1	0	WNW	5	bcq	47	65	36	7	5	–	–	4-6	4-6	1800	1	3
7	Holyhead (Valley)	03·0	+2	W'N	6	c-bc	45	75	36	8	8	–	–	7-8	7-8	3000	1	4
	Chester (Sealand)	02·2	+10	–	0	bc	41	75	36	8	2	6	–	2-3	4-6	2500	1	*
8	Manchester ...	02·1	+10	WSW	4	zo	41	85	37	6	2	6	–	1	2-3	2000	1	*
10	Spurn Head ...	99·9	+20	W'N	5	bc	41	85	36	6	7	–	–	4-6	4-6	1500	0	4
	Catterick (Sc.) ...	98·8	+8	W	3	b-bc	37	85	34	8	4	–	–	2-3	2-3	5300	1	*
	Tynemouth ...	97·6	+10	W	4	b	39	85	34	7	–	–	–	0	0	–	1	3
11	St. Abbs Head	94·3	+8	W	5	b-bc	39	75	32	7	5	4	–	1	2-3	2500	0	4
	Leuchars ...	94·4	+10	SW	3	b-bc	36	85	32	8	4	4	–	1	2-3	4000	1	*
12	Renfrew (Abbots I.)	93·1	+10	SSW	3	c-bc	35	85	31	8	5	–	3	7-8	7-8	1800	1	*
	Eskdalemuir ...	93·5	0	NW'W	6	bc	43	85	38	8	3	–	–	4-6	4-6	2000	1	4
	Point of Ayre ...	96·7	+6	WNW	3	b-bc	40	75	32	8	3	–	–	2-3	2-3	1800	1	4
13A	Tiree	93·5	+18	WNW	3	bcjp	36	75	28	8	8	–	–	4-6	4-6	2200	1	2
13B	Stornoway ...		+16	WNW	2	b-bc	33	85	29	8	5	–	–	2-3	2-3	2500	3	*
15	Dalwhinnie ...	92·4	+12	WNW	3	b-bc	30	65	28	8	5	–	–	2-3	2-3	5700	1	2
	Aberdeen ...	90·1	+26	W	4	b-bc	39	92	37	8	3	–	–	2-3	2-3	1500	1	*
	Wick ...	82·9	−18	S'W	5	c/pr	43	85	40	8	8	–	–	8	9+	1700	1	3
16	Sumburgh ...	01·8	−6	W'N	3	bc/pr	43	75	36	7	9	–	6	2-3	4-6	2500	1	3
17	Blacksod Point	98·3	+6	W'N	4	pr	42	75	35	8	8	–	–	4-6	4-6	1500	2	4
18	Malin Head ...	00·5	+4	SW	3	b-bc/pr	37	92	35	8	2	–	–	2-3	2-3	2000	1	*
	Aldergrove ...																	
19	Birr Castle ...	03·5	−4	SSW	1	bc	40	92	38	8	5	–	–	4-6	4-6	2500	1	*
20	Valentia Obsy.	04·7	−18	S	3	c/pr	43	85	39	8	3	7	–	4-6	10	2100	1	3
	Roches Point	05·8	−6	W	3	b-bc	44	92	42	8	5	7	–	4-6	7-8	1500	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 22nd (39)	13h.—18h. 22nd (40)	18h. 22nd to 1h. 23rd (41)	1h.—7h. 23rd. (42)
cbcbzo	bcbzo	bmox	bbcfx
bzo	bzobczbzo	bzobcmo	bcmocmow
bcb	bbcb	bcb	bbccfw
b	b	bbcmo	bcmocmo
b	bbmo	bbcmow	bmoidocifomo
cmo	bcbmo		bcmoxbcm
czbc	bbczo	bzmob	bcbmox
cprmo	bcmo	bcmo	bcmo
cbc	bcb	bczcmo	cmo
bczo	bczo	bc	bc
ccproc	cbcb	bbc	cbcc
cmobcmo	bzo	bmobcmo	bmo
cprob	b	b,b	cz
bcb	bbcb	bbcmox	cmo
b	bzbc	pobccpo	bcb
bc	bccvc	cbcpr	bccbc
bbzo	bzobmo	bmocprobcmobcmocidbc	
bc	cbc	bcc	c
bc	bcjpbc	bcmocmo	crrcmo
prbc	cprbc	bcprc	cprrr
zcpqc	cpqjc	cprac	crrcro
bcq	bcq	bcq,ro	bcpr
bc	bc	bccb	bw
croqbc	bc	bccpro	bcbc
prphq	bccbcmo	probcmo	cbcbmo
cbcmo	bc	bcc	c
bc	bc	cmobcmo	bc
bcmo	bcmob	bbc	bccmo
bccbc	bcb	b	bbc
cbcb	b	bbx	bbcx
cbcprqbc	cpro cprbc	bcprobbcx	bcmocprcmox
cbc	bcprc		cmrc
cprobc	bcebc	bc	brcb
cprbcpro	bccprobc	bcpro	bcpro
cprobc	c	bcp	bcbcproc
oprsbc	bcb		bbcb
rhobcc	cbc	bcb	b
ccpro	cpro cprbcb	bcprobc	cprobcps
bccpro	cpro	bb cprobc	bcprc
pr	pr	pr	pr
pr	pr	bc	pr
bbcpro	bccprobc	bcc	cbcbxbcx
bic	bc	b	b
pr	pr	pr	pr
bc	bc	r	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 23rd December 1943

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light southwest to west winds; fair with mainly broken clouds, moderate visibility, poor locally; some fog developing tonight in England; rather cold or cold with slight frost in inland areas to east.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	Moderate northwest wind, fresh in north at first, backing later; showers at first, wintry on high ground; rain spreading to western areas tomorrow, good visibility, cold.
14 Mid Scotland	As 1-11
15 N.E. Scotland	As 12-13
16 Orkneys and Shetlands	As 12-13
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland ▲	Moderate westerly wind backing southwesterly, mainly fair but some rain likely late in period; good visibility; rather cold.

GENERAL INFERENCE

Pressure is low to northeast of the British Isles; a depression off our southwest districts is being transferred quickly southeast being followed by a ridge off our western districts; it will be showery in north and west Scotland at first, but fair elsewhere; rain spreading from the west will affect north Ireland and west Scotland later; rather cold or cold with slight frost in much of England and east Scotland.

FURTHER OUTLOOK

Rain spreading eastwards to most of country.

▲ Gale warning in operation in districts 20 (part of) 2000 22-12-43

Forecasts issued at 10·30

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

7h. Thursday 23rd December, 1943.

LOW

HIGH

LOW

HIGH

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Thursday 23rd December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

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

Thursday 23rd December 1943 — No. 29981

OBSERVATIONS at 1 hr. G.M.T. 23rd December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon ...	290	06·7	-2	SW	3	Zo	37	85	34	6	5	–	6	2-3	4-6	7000
	S. Farnborough	226	06·6	-8	S'W	2	b-bc	37	85	34	8	5	–	–	2-3	2-3	5000
	Boscombe Down	417	07·0	-6	WSW	2	Zo	35	97	34	6	5	–	–	4-6	4-6	2500
	Thorney Island	10	07·6	-6	–	0	Zo	33	97	32	6	5	–	–	4-6	4-6	3000
	Lympne ...	341	07·6	+2	W	3	Zo	35	92	33	6	–	–	–	0	0	–
	Manston ...	154	06·9	+6	WSW	3	b	35	85	32	7	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	05·3	0	W	3	Zo	37	85	33	6	5	–	–	3	3	8000
	Gorleston ...	5	03·8	+6	W'S	3	b-bc	37	75	30	7	5	–	–	2-3	2-3	2500
	Mildenhall ...	15	04·5	+8	SW	3	b	35	85	32	8	5	–	–	Tr	Tr	1000
	Cranwell ...	203	00·2	+2	W'S	5	Zo	35	97	34	6	5	–	–	4-6	4-6	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	05·1	-2	SW	2	Zo	33	97	33	6	–	6	–	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·4	-8	SSE	3	bc	41	92	39	8	5	–	–	4-6	4-6	2500
	Bristol ...	209	05·7	-10	SW	1	Zo	40	85	36	6	6	7	–	7-8	7-8	3000
	Portland Bill ...	32	06·7	-8	W	4	c-bc	47	92	45	8	5	–	–	7-8	7-8	5000
	Plymouth ...	86	05·7	-18	WSW	3	Zo	40	97	39	6	8	–	–	7-8	9+	2000
	The Lizard ...	240	05·2	-20	WSW	4	c-bc	47	75	40	7	5	–	–	7-8	7-8	2000
	Scilly (St. Mary's)	163	03·4	-30	SSW	4	c	47	75	40	8	5	7	–	4-6	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	03·6	-6	NW	3	bc	46	85	42	7	8	–	–	4-6	4-6	2000
7	Holyhead (Valley)	32	02·7	+2	SSW	3	c-bc	44	97	44	8	8	–	–	7-8	7-8	2500
	Chester (Sealand)	16	02·4	+2	WSW	1	c	42	85	37	8	5	–	–	3	3	3100
8	Manchester ...	230	02·4	+2	SSW	3	Zo	38	97	37	6	4	–	–	3	3	4400
10	Spurn Head ...	29	01·3	+20	SW	6	c-bc	39	85	35	6	7	–	–	7-8	7-8	1500
	Catterick (Sc.) ...	192	00·0	+4	WSW	3	Zo	38	85	35	6	5	7	–	2-3	4-6	3000
	Tynemouth ...	108	99·4	+4	W	3	bc	38	85	33	7	2	–	–	4-6	4-6	2500
11	St. Abbs Head	280	97·1	+10	N	4	b	37	85	32	7	5	–	–	1	1	2500
	Leuchars ...	31	97·1	+10	N	2	b	33	92	31	7	–	–	–	0	0	–
12	Renfrew (Abbotsl.)	19	98·6	+4	W	1	b-bc	36	92	34	7	5	–	–	2-3	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	00·2	+6	NW	5	bc	43	85	38	8	5	–	–	4-6	4-6	2000
13A	Tiree	44	98·8	+14	W	2	bc/pr	38	85	33	8	2	–	–	4-6	4-6	2000
13B	Stornoway ...	12	85·4	+10	W	3	b-bc	34	92	32	7	2	–	–	2-3	2-3	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	95·6	+8	W	4	b	36	75	28	9	–	4	–	–	Tr	–
	Wick ...	114	93·2	+2	W'S	5	bc/pr	35	97	35	8	3	–	–	4-6	4-6	1000
16	Sumburgh ..	15	87·4	+18	W'S	6	bc/pr	43	85	39	8	3	–	–	4-6	4-6	1500
17	Blacksod Point	18	01·3	0	–	0	b-bc/pr	39	92	37	7	9	–	–	2-3	2-3	1500
18	Malin Head ...	84	98·9	+2	NW	3	bc	42	75	34	8	8	–	–	4-6	4-6	1500
	Aldergrove ...	294	01·1	+6	S	1	c-bc	36	97	35	7	5	–	–	7-8	7-8	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	99·0	-26	E	4	pr	44	85	40	8	8	–	–	9	9	2300
	Roches Point	22	01·6	-18	–	0	b-bc	42	97	42	8	5	–	–	2-3	2-3	1500

OBSERVATIONS at 7 hr. G.M.T. 23rd December

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)	06·0	+2	NE	1	bcf	34	97	33	2	5	–	–	4-6	4-6	2100	1	*
	Croydon ...	06·5	+2	SW	4	Zo	39	92	37	5	5	4	–	7-8	9	3000	1	*
	S. Farnborough	06·0	0	SE'S	2	cf+	38	97	38	3	5	4	7	2-3	9+	2500	1	*
	Boscombe Down	06·4	-6	E'S	2	Zo	36	97	34	5	5	–	–	9+	9+	2500	0	*
	Thorney Island	07·3	+2	–	0	ifo	39	97	39	6	5	7	–	7-8	10	1500		*
	Lympne ...	07·1	-2	WSW	2	Zo	38	97	38	6	5	–	8	2-3	4-6	2800	0	*
	Manston ...	06·3	-6	SW	3	c-bc	37	92	36	7	–	3	–	0	7-8	–	1	*
2	Shoeburyness ...	06·9	-2	SSE	3	Zo	38	92	36	6	–	7	–	4-6	4-6	12000	1	*
	Felixstowe ...	05·7	+2	SW	3	Zo	39	85	36	6	5	7	–	4-6	9	5000	0	4
	Gorleston ...	05·5	+16	N	2	bc	37	85	32	7	2	–	–	4-6	4-6	2500	0	2
	Mildenhall ...	05·2	+2	SW'S	3	c	38	92	36	7	5	–	–	10	10	4000	1	*
	Cranwell ...	04·3	+6	NSW	3	Zo	34	97	33	6	–	7	–	0	4-6	–	0	*
3	Birmingham ...	04·9	+4	NSW	2	Zo	37	97	36	6	–	4	–	0	7-8	–	1	*
	Upper Heyford	05·1	0	SW	1	Zo	35	97	34	6	5	–	–	2-3	2-3	5000	1	*
4	Ross-on-Wye	05·1	-4	W'S	1	b	37	92	35	6	5	–	1	1	1	3000	1	*
5	Hartland Point	02·9	0	SSE	3	bc	42	92	40	8	5	6	9	4-6	4-6	2500	1	3
	Bristol ...	04·9	-6	ESE	1	Zo	37	92	35	6	5	7	–	9	9+	3300	1	*
	Portland Bill ...	05·7	-2	N	4	c	47	92	45	8	5	–	–	10	10	5000	1	4
	Plymouth ...	03·3	-10	SSE	1	fog	45	85	42	6	8	2	–	4-6	10	2000	1	1
	The Lizard ...	01·5	-16	S	3	m	46	97	45	5	5	–	–	10	10	1500	1	4
	Scilly (St. Mary's)	99·0	-26	SE'S	5	fog	45	97	44	7	5	–	–	10	10	800	1	5
	Guernsey ...																	
6	Pembroke ...	04·3	+4	ENE	3	bc	41	97	41	8	8	–	–	4-6	4-6	2000	1	3
7	Holyhead (Valley)	04·3	+18	–	0	b	34	97	34	8	5	–	–	1	1	2500	1	1
	Chester (Sealand)	03·6	+10	–	0	bc	33	85	30	5	–	–	4	0	4-6	–	1	*
8	Manchester ...	04·2	+12	S	3	Zo	35	97	34	6	4	6	3	2-3	4-6	4400	1	*
10	Spurn Head ...	02·9	+6	NSW	3	c-bc	38	85	35	6	7	–	–	7-8	7-8	1500	0	3
	Catterick (Sc.) ...	02·2	+10	NSW	1	c-bc	36	97	35	8	5	3	–	4-6	7-8	2500	1	*
	Tynemouth ...	01·5	+10	W	3	Zo	39	85	36	6	5	–	–	7-8	7-8	2500	1	3
11	St. Abbs Head	98·8	+16	W	4	bc	38	85	34	7	5	4	–	4-6	4-6	4000	0	4
	Leuchars ...	00·1	+18	NSW	2	b-bc	32	97	32	7	5	–	–	2-3	2-3	3500	3	*
12	Renfrew (Abbotsl.)	01·5	+18	NSW	2	bc/pr	36	92	34	6	5	–	5	2-3	4-6	2500	3	*
	Eskdalemuir ...	01·4	+10	SW'S	1	o/c	33	92	31	7	5	–	–	10	10	1500	5	*
	Point of Ayre ...	02·9	+20	NNW	4	b-bc	43	85	39	8	4	4	–	Tr	4-6	2000	0	3
13A	Tiree	01·8	+18	NNW	3	b-bc	39	85	35	8	2	–	–	2-3	2-3	2000	1	2
13B	Stornoway ...	98·0	+18	W	3	c-bc/pr	35	85	31	7	3	–	–	7-8	7-8	1800	3	2
15	Dalwhinnie ...	99·0	+12	WNW	2	b-bc	31	92	29	8	7	–	–	2-3	2-3	2500	3	*
	Aberdeen † ...	98·0	+16	WSW	2	b	34	75	28	7	5	–	–	Tr	Tr	2500	1	2
	Wick ...	85·6	+10	WSW	4	bc/pr	34	97	34	7	3	6	8	2-3	4-6	1500	6	*
16	Sumburgh ..	89·2	+6	WSW	7	bc/pr	43	92	41	7	3	–	3	4-6	4-6	1000	1	4
17	Blacksod Point	05·4	+30	NNW	1	bc	39	92	37	7	9	–	–	4-6	4-6	2500	1	2
18	Malin Head ...	01·3	+20	NW	3	bc	43	75	35	8	8	–	–	4-6	4-6	1500	2	3
	Aldergrove ...	03·6	+16	SW'S	2	b-bc	35	97	34	8	5	7	–	2-3	2-3	1500	1	*
19	Birr Castle ...	04·6	+20	S	1	b	28	92	24	8	–	–	–	0	0	–	1	*
20	Valentia Obsy.	04·3	+50	NE'E	4	c	44	85	40	8	5	–	–	9	9	2500	1	2
	Roches Point	03·2	+26	E	3	c-bc	42	97	41	8	8	–	–	7-8	7-8	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Hrs. (38)
1	London (Kew)	45	31	21	–	Tr	5·0
	Croydon ...	45	36	31	–	Tr	4·8
	S. Farnborough	46	34	22	–	–	5·4
	Boscombe Down	44	33	27	–	–	6·4
	Thorney Island	46	31	25	Tr	Tr	*
	Lympne ...	47	34	27	–	–	3·7
	Manston ...	46	34	31	–	Tr	3·3
2	Shoeburyness ...	46	37	30	Tr	–	0·4
	Felixstowe ...	45	35	32	0·2	–	1·7
	Gorleston ...	44	37	34	0·2	–	2·0
	Mildenhall ...	46	35	27	–	–	1·7
	Cranwell ...	44	39	24	Tr	–	4·4
3	Birmingham ...	44	36	32	0·4	–	5·4
	Upper Heyford	44	33	27	–	–	*
4	Ross-on-Wye	45	37	20	–	Tr	4·3
5	Hartland Point	48	41	38	Tr	2	4·5
	Bristol ...	45	36	28	–	0·2	6·0
	Portland Bill ...	48	45	*	–	–	*
	Plymouth ...	49	38	33	Tr	2	5·8
	The Lizard ...	49	44	*	2	2	4·4
	Scilly (St. Mary's)	50	44	*	0·3	4	3·2
	Guernsey ...						
6	Pembroke ...	48	39	*	Tr	6	3·7
7	Holyhead (Valley)	46	34	25	–	–	*
	Chester (Sealand)	45	31	25	2	Tr	4·0
8	Manchester ...	43	34	30	3	0·5	*
10	Spurn Head ...	44	38	*	–	–	3·0
	Catterick (Sc.) ...	40	34	25	–	–	0·3
	Tynemouth ...	43	37	32	–	–	*
11	St. Abbs Head	42	35	*	–	–	
	Leuchars ...	43	32	*	–	–	3·6
12	Renfrew (Abbotsl.)	41	34	24	0·6	0·5	3·6
	Eskdalemuir ...	41	32	30	0·2	1	4·2
	Point of Ayre ...	46	42	*	1	–	3·6
13A	Tiree	44	35	31	1	1	1·8
13B	Stornoway ...	43	34	28	0·1	1	3·4
15	Dalwhinnie ...	38	31	27	0·4	–	1·3
	Aberdeen † ...	42	33	22	–	–	0·8
	Wick ...	41	33	30	4	2	*
16	Sumburgh ..	45	41	39	3	3	0·0
17	Blacksod Point	47	35	*	0·2	2	*
18	Malin Head ...	44	39		2	1	0·5
	Aldergrove ...	42	33	28	0·5	Tr	3·1
19	Birr Castle ...	46	28	23	–	–	4·0
20	Valentia Obsy.	47	42	37	1	1	0·7
	Roches Point	47	41	*	–	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 22nd December — 18h. G.M.T. — 01h. G.M.T. 23rd — 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	52	61744	22568	47	62744	25765	84	01744	24684	3-	25648	23588
115				87	02844	60387	57	81544	61586	27	88846	61685
203							30	01				
206	36	25954	24585	3-	81855	20115	40	25852	21582	30	01853	20483
210	16	01855	24514	40	01853	57583						
219	86	01834	26514	8c	10854	30684				80	25854	28484
230	36	27854	26484	3-	02853	26484	30	25853	00083	8-	25855	22185
245				5-	01864	23214	00	00890	20200	50	01851	20111
260	50	05662	22412									
277		81845	57687				80	01893	21313	00	01743	22313
279	86	01845	23514	8-	81748	18388	87	02754	18488	86	01753	22314
285	20	02								23	31	
288	24	01852	24513	04	01891	20311	54	01753	16324	57	02855	21816
575	36	02854	59585	30	01853	22213	41	01754	00024	31	25754	00085
301	86	02854	28525	5-	01854	23514	30	02755	24485	40	01762	22313
321	76	02753	59683	5a	85	3	24413	5-	05664	18384	53	05664	20284
299				40	01			50	01743	22413	50	05	
292	46	01853	28516	4c	01853	24313	06	01893	24413	5-	02865	18315
310												
614	46	81			25545	22385	5-	05		04	05	

13h. G.M.T. 22nd December — 18h. G.M.T. — 01h. G.M.T. 23rd December — 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	20	01853	57523				24	01753	22324	04	01892	00013
334				--	02644	28315				--	01642	00003
340	80	01884	59424	44	01853		57	61875	20228	5-	02877	18267
136	07	05690	55564	50	05662	55462	03	05693	21403	50	05674	21224
336	10	01		40	05					50	05654	20314
350	10	01864	25514	4c	01761	20311	50	05663	20203	50	05663	20133
368	80	01654	26414	8-	02755	24215	50	01763	24183	57	05645	20118
379	10	01854	26414	00	00890	24310	30	05654	20314	50	05653	20214
390	50	05634	24424	c	05690	24210	50	05564	18204	03	08490	20114
382				40	01861	22211	50	02764	00015	07	05690	00013
438	10	01853	59513	50	01		50	01		8-	61	
430		01851	22401	00	05					5-	21	
409	24	01854	25414	87	25965	26486	5-	05648	15288	5-	61668	10263

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 23rd December
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 ...	chcb2o	bcb2o	bmofx	
Croydon ...	b2o	b2obc2o	b2oc1ow	
Greenwich ...	ob	bcyb	bcbxcfe	Kew 24 hours ended 7h.
Camden Square	c	cb	*	Max. Time
Kensington ...	bc	bc	*	0·3 17-19h 22nd
Hampstead ...	bc	bc	bc	Min. Time
				0·1 0-4h 23rd

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	45	31	21	–	Tr	5·0	*	*
Croydon ...	45	36	31	–	Tr	4·8	*	*
Greenwich ...	45	33	28	–	Tr	4·1	50	93
Westminster ...	48	32	26	Tr				51
Regents Park ...	46	33	21	–	–		63	95
Camden Square	46	32	23	–	–	*	*	98
Kensington ...	47	32	23	–	–		71	35
Hampstead ...	45	34	24	–	–		*	94

SECRET

Page 1

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

BRITISH SECTION

Friday 24th December, 1943

No. 29982.

OBSERVATIONS at 13h. G.M.T. 23rd December

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)	09·0	+8	WSW	1	cf	43	85	39	2	5	3	–	9	9+	2500
	Croydon ...	09·0	+6	SSW	2	2_0	45	85	42	5	5	3	9	2-3	9	3000
	S. Farnborough	09·2	+10	SW'S	1	2_0	45	92	41	6	7	7	6	2-3	9	3000
	Boscombe Down	08·9	+12	SSW	1	2_0	46	85	41	6	8	7	8	4-6	9+	2500
	Thorney Island	09·0	+10	–	0	2_0	47	85	44	6	–	7	–	9+	9+	10000
	Lympne ...	09·7	+6	SSW	2	c	44	85	41	7	5	–	–	9	9	3000
	Manston ...	08·8	+6	SW'W	2	c	45	85	41	7	5	9	–	7-8	9+	6000
2	Shoeburyness ...	08·9	+6	SSW	2	2_0	44	85	40	5	6	–	–	7-8	7-8	3500
	Felixstowe ...	08·7	+10	–	0	2_0	43	85	39	6	5	–	–	9+	9+	5000
	Gorleston ...	07·6	+6	W'N	2	2_0	42	85	37	6	5	–	–	9+	9+	1700
	Mildenhall ...	08·5	+10	W'S	3	c/r	42	85	38	6	5	–	–	9+	9+	4000
	Cranwell ...	08·2	+14	W'S	3	m	41	75	33	4	5	–	–	4-6	4-6	4000
	Birmingham ...	07·7	+18	W	2	2_0	42	78	36	5	–	4	–	0	Tr	–
	Upper Heyford	08·6	+10	SW	1	2_0	44	75	36	5	5	–	9	2-3	7-8	4500
4	Ross-on-Wye	09·6	+20	WSW	1	2_0	40	85	36	5	5	3	1	4-6	7-8	3000
5	Hartland Point	08·2	+30	NE	3	c-bc	44	92	42	8	2	4	–	4-6	7-8	2500
	Bristol ...	09·1	+16	E'S	1	2_0	47	75	39	5	–	3	9	0	9+	–
	Portland Bill ...	08·9	+20	S	3	c	48	92	46	8	5	–	–	10	10	5000
	Plymouth ...	08·1	+22	SE	2	c	46	97	45	7	8	7	–	2-3	9+	2000
	The Lizard ...	06·2	+28	ESE	5	c	46	97	46	7	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	06·0	+42	ESE	4	c	49	92	47	8	8	6	–	9+	9+	1200
	Guernsey ...															
6	Pembroke ...	09·8	+38	NE	1	2_0	46	85	41	6	2	4	5	2-3	4-6	2500
7	Holyhead (Valley)	09·9	+28	NW'W	3	c-bc	46	75	38	9	2	6	2	4-6	7-8	2500
	Chester (Sealand)	08·2	+14	WNW	1	c-bc	45	65	35	8	2	3	1	4-6	7-8	3500
8	Manchester ...	09·0	+22	W	3	c/pr	40	92	38	5	9	6	–	7-8	9	1500
10	Spurn Head ...	06·7	+10	WSW	5	2_0	42	75	36	6	7	3	–	2-3	4-6	4000
	Catterick (Sc.)...	06·4	+14	W	3	bc	43	75	37	8	8	3	–	1	4-6	3000
	Tynemouth ...	05·4	+14	W	3	2_0	41	85	37	6	–	4	–	0	2-3	–
11	St. Abbs Head	03·8	+16	W	5	b	40	75	32	7	4	–	–	1	1	3000
	Leuchars ...	04·6	+22	W	3	b	39	75	32	8	7	4	–	Tr	1	20,000
12	Renfrew (Abbotsl.)	06·4	+18	WSW	3	bc	41	75	35	7	2	6	9	2-3	4-6	2000
	Eskdalemuir ...	06·0	+26	SW	3	b-bc	33	97	32	8	5	–	–	1	2-3	2500
	Point of Ayre...	07·6	+22	N	4	c	43	75	37	8	9	4	–	7-8	9	2000
13A	Tiree	07·5	+22	NW	4	bc/pr	43	75	35	9	8	–	–	1	4-6	2000
13B	Stornoway ...	02·9	+18	WNW	5	c	41	75	33	8	8	6	–	4-6	9+	2000
15	Dalwhinnie ...	04·2	+20	WNW	3	is	35	75	27	8	7	–	–	7-8	7-8	2500
	Aberdeen ...	02·1	+16	W	3	bc	40	65	27	8	–	4	–	4-6	4-6	10,000
	Wick ...	97·4	+2	WSW	6	pr	37	85	34	8	9	6	–	7-8	9	1500
16	Sumburgh ...	88·6	-10	WSW	5	pr	43	97	42	8	3	6	–	9	9+	1000
17	Blacksod Point	12·8	+34	NW'N	3	bc	45	85	41	8	9	–	–	4-6	4-6	2500
18	Malin Head ...	07·9	+26	N	4	pr	44	75	37	8	8	2	–	7-8	7-8	2500
	Aldergrove ...	08·4	+24	SW	2	c	40	85	36	8	5	3	4	4-6	9	1500
19	Birr Castle ...	12·2	+30	SW	1	c/f	39	85	35	7	5	1	–	7-8	10	2500
20	Valentia Obsy.	14·7	+38	N	3	c-bc/pr	46	75	39	9	2	3	3	4-6	7-8	2600
	Roches Point	12·2	+40	N	4	bc	41	95	37	8	5	3	3	Tr	4-6	2500

OBSERVATIONS at 18h. G.M.T. 23rd December

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	13·6	+26	–	0	cf	42	92	40	2	5	–	–	9+	9+	2500	1	*
	Croydon ...	13·2	+26	–	0	bcf	40	92	38	2	5	–	–	4-6	4-6	2000	1	*
	S. Farnborough	13·6	+28	W	1	c-bcf	40	92	38	3	5	7	–	4-6	7-8	2800	1	*
	Boscombe Down	14·0	+32	N	1	2_0	40	92	38	5	5	7	–	4-6	9	2500	0	*
	Thorney Island	13·2	+30	–	0	2_0	44	97	43	5	5	–	–	4-6	4-6	2500	1	*
	Lympne ...	13·2	+16	NW'W	2	2_0	41	92	39	6	5	–	–	7-8	7-8	1500	1	3
	Manston ...	12·8	+28	WNW	2	m	42	82	39	4	5	3	2	4-6	9	3000	1	*
2	Shoeburyness ...	13·6	+22	–	0	m	39	92	37	4	5	–	–	4-6	4-6	2500	1	*
	Felixstowe ...	11·8	+28	W	1	m	41	97	41	4	5	–	–	2-3	2-3	5000	0	4
	Gorleston ...	10·1	+4	WNW	2	2_0	38	92	36	5	5	–	–	0	0	–	1	1
	Mildenhall ...	12·3	+22	WSW	3	c-bcf	38	97	37	4	5	–	–	7-8	7-8	2500	1	*
	Cranwell ...	12·0	+26	W'S	3	bf	37	92	35	3	–	–	–	0	0	–	0	*
	Birmingham ...	13·2	+26	W	2	2_0	40	75	34	5	5	–	2	4-6	4-6	2500	1	*
	Upper Heyford	13·7	+32	NW	1	2_0	35	82	33	5	5	–	–	1	1	4000	1	*
4	Ross-on-Wye	14·2	+24	SW	1	bf_g	36	92	34	6	5	–	–	1	1	3000	1	*
5	Hartland Point	14·6	+38	NNE	3	b-bc	45	75	38	8	2	–	–	2-3	2-3	2500	1	3
	Bristol ...	14·9	+36	W'S	1	m/f	38	97	37	4	5	–	–	7-8	7-8	4000	1	*
	Portland Bill ...	12·8	+20	NE	3	c	46	92	44	7	5	–	–	10	10	4500	1	4
	Plymouth ...	14·3	+42	NE	3	bc	45	85	42	7	5	4	–	2-3	4-6	4000	1	1
	The Lizard ...	13·5	+30	NE	2	bc	44	92	42	7	8	3	–	4-6	4-6	1500	1	4
	Scilly (St. Mary's)	14·9	+56	NNE	5	c-bc	48	85	43	8	8	6	2	4-6	7-8	1500	1	5
	Guernsey ...																	
6	Pembroke ...	17·2	+12	N	3	bc	43	85	38	8	8	–	–	4-6	4-6	1500	1	3
7	Holyhead (Valley)	15·4	+28	NW'N	3	bc	43	78	37	8	1	3	1	2-3	4-6	2500	1	2
	Chester (Sealand)	12·8	+30	–	0	c-bc	41	85	36	7	4	–	–	2-3	7-8	3000	1	*
8	Manchester ...	12·2	+22	W	3	c/pr	39	85	36	6	4	6	–	4-6	9	2300	1	
10	Spurn Head ...	10·4	+14	W'N	4	2_0	40	85	36	5	7	–	–	2-3	2-3	2500	0	3
	Catterick (Sc.)...	10·5	+30	W	3	b-bc	36	92	34	8	–	3	–	2-3	2-3	–	1	*
	Tynemouth ...	09·0	+14	N	4	2_0	39	85	34	6	–	4	–	2-3	2-3	–	1	2
11	St. Abbs Head	06·9	+10	W	5	b	40	75	33	7	4	–	–	1	1	4000	0	4
	Leuchars ...	07·5	+38	SW	3	b-bc	38	75	30	7	5	4	–	1	2-3	5000	1	*
12	Renfrew (Abbotsl.)	10·6	+26	S	1	bc	37	85	32	7	8	–	–	4-6	4-6	2000	3	*
	Eskdalemuir ...	10·5	+30	WN	2	b-bc	33	85	29	8	7	–	–	2-3	2-3	2800	5	*
	Point of Ayre...	11·8	+2	N'W	5	bc/pr	42	85	37	8	9	7	–	2-3	4-6	2000	1	3
13A	Tiree	11·8	+28	WNW	4	pr	41	75	34	8	8	–	–	9+	9+	2000	1	3
13B	Stornoway ...	07·9	+32	WNW	4	pr	40	75	34	7	8	–	–	7-8	7-8	1600	1	2
15	Dalwhinnie ...	08·4	+20	W	4	b-bc	36	65	25	8	7	–	–	2-3	2-3	3500	3	*
	Aberdeen ...	04·0	+16	WNW	4	b-bc	39	65	29	7	5	–	–	2-3	2-3	2500	1	
	Wick ...	01·9	+40	WNW	6	bc/pr	42	97	41	8	3	–	–	4-6	4-6	1500	1	*
16	Sumburgh ...	95·5	+42	NW'N	6	pr	45	85	40	8	3	–	–	9	9	1900	1	3
17	Blacksod Point	17·9	+30	NW'N	4	bc	45	85	41	8	8	–	–	4-6	4-6	2500	1	3
18	Malin Head ...	13·0	+34	NW	4	c-bc	43	75	36	8	8	–	–	7-8	7-8	2500	2	4
	Aldergrove ...	13·9	+30	SW'N	2	c	39	85	35	8	5	7	–	7-8	9+	3000	1	*
19	Birr Castle ...	15·6	+30	SSW	1	bc	39	85	35	8	5	–	–	4-6	4-6	1500	1	*
20	Valentia Obsy.	20·7	+42	N'W	4	bc	45	85	41	8	2	–	3	2-3	4-6	2200	1	3
	Roches Point	18·5	+38	NNW	3	bc	43	97	42	8	5	–	–	4-6	4-6	1500	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 23rd (39)	13h.—18h. 23rd (40)	18h. 23rd 1h. 24th (41)	1h.–7h. 24th (42)
bcfcff	cff	cbc	bfffx
cmwcmo	cmcfbcfw	bfw	bbcfwbfx
cfwxmmo	cmombbcf	cfbcfbf	
cmobcmcmo	cmobcmo	bfbcf	bcfbwxbcx
cirocidcmo	cmo	bcbcmo	bbcmo
c	ccmo	bcnbm	bfbmbfx
cirocmoc	ccmo	dcmbcbf	bfft
bcmocmo	cmoW	bcm	bnbf
cmo	bcm	bmo	bmo
cbccz$_0$	bczw	bwz	bcbfbcxm
cciromo	cmoircprf	cmcmobmo	bmx
cmobcmo	bcmcmbcf	cf	bcmo
cbz	b,cz	cz	cbcm
bncmxbcmo	bcmocbc	bmobcmox	bcbmox
bcmfm	cmob	cb	bwbca
bcc	cbc	bc	bbcbcb
cmocz$_0$	czcfbcfcf	bcmxcmxbbccmo	
bc	c	c	c
cro$_0$moc	c	bcmow	bmwox
crrc	prcbc	bc	bcc
cpro	cpbc	cbc	bc
bcmo	bc	bc	bcpro
bc	cbc	bcb	bwbcw
bcxcmo	bcprc	cnbc	bcmob
cphpro9	cmcpro	pro$_0$cmo	pro$_0$cbmo
bcz$_0$	bcmo	bcmo	b
cbc	bc	b	b
cbcmo	bcmo	bcmo	bmo
bcb	bbcc	b	bbc
bxb	bbc	bbcx	bcx
bxbbc	bcx	bcxbmo	bcxbpro$_0$bc
cd$_0$cbc	bcv	bcbx	bbcx
c	cprq	cprbc	bprbc
bccpro$_0$bc	cjpcpro	cpro$_0$bc	bccpro$_0$bc
cprhcpro$_0$c	cprbcc	cbc	bccbc
bccpso	cbcb	*	bc
bbc	bcbcq	bqbx	bx
bcps.	cprcpro$_0$bc	bcphmpro$_0$s	cprjbcjp
bccpr	cpr	cprbc	cprb
bc	bc	bc	bc
pr	pr	pr	bc
bcrcrc	cpro$_0$cbcc	cbcb	cpro$_0$bccbc
c	bc	*	bc
pr	pr	b	r
bc	bc	b	bc

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

Districts	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light Northwest to west wind; fine at first; dull later; fog forming tonight and persisting; poor or moderate visibility deteriorating generally; rather cold with slight frost in south tonight.

Moderate west to southwest wind, fresh in the North later; cloudy with occasional rain; poor or moderate visibility, good in the east for a short time; some fog in lowlands of Scotland tonight; rather cold in most of area at first becoming mild generally.

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

As 11-15.

GENERAL INFERENCE

Pressure is high to the southwest of the British Isles and a ridge over this country is moving east followed by a trough; conditions will be cloudy with occasional rain in the north; fine weather at first in England will be followed by dull and foggy conditions tonight and tomorrow. Rather cold or cold becoming milder in the north; slight frost in south tonight.

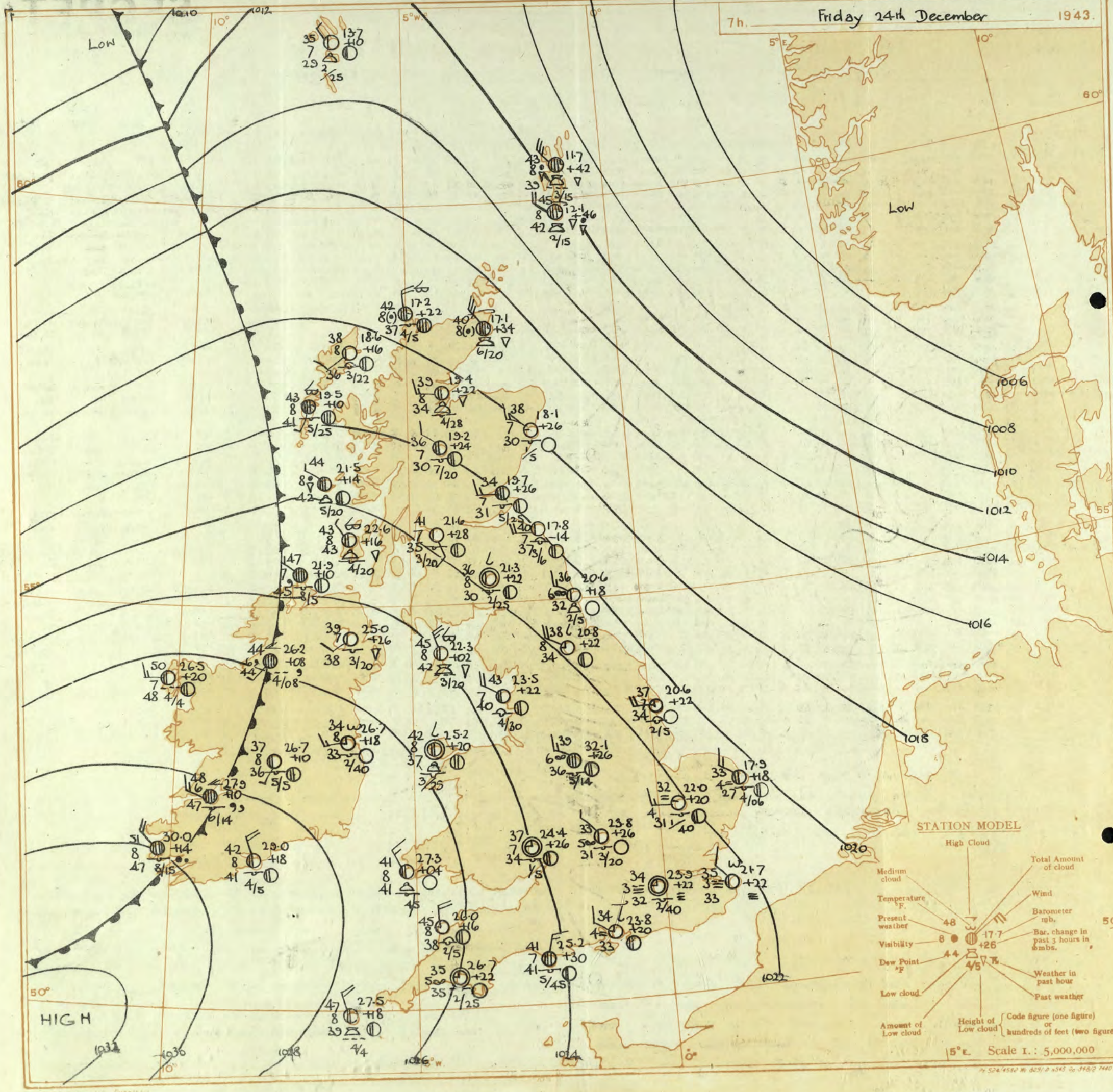
FURTHER OUTLOOK

Fog in the South; little change in the North.

Forecasts issued at 10.30

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

7h. Friday 24th December 1943.



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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 24th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Friday 24th December, 1943 No. 29982.

OBSERVATIONS at 1 hr. G.M.T. 24th December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	36	*	*	*	*	*	*	*	*	*
	Croydon ...	290	19·5	+22	W	2	bf–	35	97	35	2	–	4	–	Tr	Tr	10,000
	S. Farnborough	226	20·3	+22	W'S	1	bf+	31	97	31	2	5	–	–	Tr	Tr	5000
	Boscombe Down	417	20·8	+26	WNW	2	b-bc	33	97	33	3	5	–	–	2-3	2-3	3000
	Thorney Island	10	19·7	+22	NW	2	z	36	97	35	5	5	–	–	2-3	2-3	3500
	Lympne ..	341	19·0	+22	NNW	3	bf+	36	97	35	2	–	–	–	0	0	–
	Manston ...	154	17·7	+16	NW'W	2	bf	36	92	34	3	–	3	–	0	1	8000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	16·7	+14	W	2	m	37	97	36	4	–	–	–	0	0	–
	Gorleston ...	5	16·2	+32	W'N	3	z	35	92	32	5	–	–	–	0	0	–
	Mildenhall ...	15	17·8	+20	W'S	3	z	33	97	32	5	5	–	–	2-3	2-3	4000
	Cranwell ...	203	17·8	+20	W'N	2	bf–	33	97	32	3	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·6	+22	WNW	1	z	33	97	32	5	–	7	8	2-3	4-6	10,000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	21·3	+26	N	4	b-bc	45	75	38	8	2	–	–	2-3	2-3	2500
	Bristol ...	209	21·1	+22	=	0	z	36	92	33	5	5	–	–	7-8	7-8	4400
	Portland Bill ...	32	20·1	+26	NE	3	c-bc	43	92	41	7	5	–	–	4-6	7-8	5000
	Plymouth ...	86	22·7	+28	–	0	z	38	97	37	6	5	4	–	Tr	1	3000
	The Lizard ...	240	22·9	+36	NW	2	bc	40	92	37	7	5	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	24·1	+36	N	5	b-bc	46	85	39	8	8	–	–	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	22·2	+16	N'W	4	b-bc	45	75	39	8	2	–	–	2-3	2-3	3000
7	Holyhead (Valley)	32	20·5	+20	NW	2	b-bc	42	85	37	8	–	4	–	0	2-3	–
	Chester (Sealand)	16	18·9	+24	NW	1	b-bc	40	85	37	7	5	–	–	2-3	2-3	3000
8	Manchester ...	230	19·0	+26	WNW	4	pr	37	97	36	6	2	6	–	9	9+	2500
10	Spurn Head ...	29	16·2	+24	W'N	5	z	39	85	34	5	7	–	–	2-3	2-3	2500
	Catterick (Sc) ...	192	16·2	+44	W'N	3	b-bc	38	85	33	7	–	4	–	0	2-3	–
	Tynemouth ...	108	16·4	+30	W	4	z	36	85	32	6	–	4	–	0	2-3	–
11	St. Abbs Head	280	13·4	+32	W	5	b	40	75	34	7	4	–	–	1	1	4000
	Leuchars ...	31	14·3	+30	WSW	3	b-bc	38	75	32	7	5	1	–	2-3	2-3	3000
12	Renfrew (Abbotsl.)	19	16·2	+18	W'S	2	b-bc	37	85	33	7	5	–	–	2-3	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	18·0	+28	N'W	4	b-bc	44	85	39	8	8	4	–	1	2-3	2000
13A	Tiree	44	17·8	+24	WNW	4	b-bc	44	75	36	8	2	–	–	2-3	2-3	2000
13B	Stornoway ...	12	14·6	+24	W	3	bc	39	85	35	8	4	6	–	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	11·4	+18	WNW	5	b	38	75	30	8	5	–	–	1	1	4000
	Wick ...	114	10·1	+30	NW	7	pr	29	97	39	7	3	–	–	4-6	4-6	1000
16	Sumburgh ..	15	03·3	+50	NW'W	6	b-bc/pr	45	85	40	7	3	–	3	2-3	2-3	2000
17	Blacksod Point	18	23·4	+18	NW'N	4	b-bc	47	85	43	8	8	–	–	2-3	2-3	2500
18	Malin Head ...	84	08·6	+18	WNW	3	bc/p	48	75	37	8	2	–	–	4-6	4-6	2500
	Aldergrove ...	294	29·8	+24	W	2	b-bc	39	85	34	7	5	–	–	2-3	2-3	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·1	+26	NW'N	4	b	47	75	39	8	5	–	–	Tr	Tr	2300
	Roches Point	22	25·2	+22	N'W	4	b	41	97	40	8	5	–	–	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 24th December

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)
23·7	+22	SW	2	b-bc	35	97	34	3	5	–	–	2-3	2-3	2500	1	*
23·9	+22	–	0	bf	34	92	32	3	5	–	–	1	1	4000	0	*
24·3	+22	WSW	1	m	31	97	30	4	–	4	–	Tr	1	10,000	3	*
24·6	+20	NW	2	m	34	97	33	4	5	–	–	1	1	3000	0	*
23·8	+20	WNW	2	mp	34	97	33	4	–	4	1	1	1	8,000	1	*
22·6	+18	NNW	3	m/f	32	97	32	4	–	–	2	0	2-3	20,000	1	*
21·7	+22	NW	2	b-bc/f	35	92	33	3	–	3	–	0	2-3	–	1	*
22·1	+18	NW	1	bf	33	92	31	3	–	–	–	0	0	–	1	*
21·0	+14	W	3	z	35	97	34	5	–	–	–	0	0	–	0	2
17·9	+18	NW	3	m	33	75	27	4	5	–	–	4-6	4-6	600	3	2
22·0	+20	W	3	m	32	97	31	4	5	–	–	Tr	Tr	4000	3	*
22·3	+30	W	2	z	33	97	32	5	–	4	–	0	2-3	–	0	*
25·3	+16	WNW	2	m	38	85	34	4	5	–	–	2-3	2-3	4000	1	*
23·8	+26	NW	1	z	33	92	31	5	5	–	–	2-3	2-3	2000	3	*
24·4	+26	–	0	b	37	85	34	7	5	–	–	Tr	Tr	3000	1	*
26·0	+16	N	4	b	45	75	38	8	4	–	–	1	1	2500	1	4
25·3	+26	WNW	1	z	37	92	35	6	5	–	–	4-6	4-6	3500	3	*
25·2	+30	NNE	3	c-bc	41	97	41	7	5	–	–	7-8	7-8	4500	1	4
26·7	+22	–	0	z	35	97	35	5	5	–	–	1	1	2500	0	1
26·4	+20	NW	3	c-bc	42	92	40	6	8	–	–	7-8	7-8	2000	0	4
27·5	+18	N'W	4	bc	47	75	39	8	9	–	–	4-6	4-6	1500	1	4
27·3	+4	NNW	3	bc	41	97	41	8	8	–	–	4-6	4-6	2500	1	3
25·2	+20	–	0	bc	42	85	37	8	8	4	–	2-3	4-6	2500	1	1
22·3	+18	NW	3	c-bc	40	85	37	7	5	4	–	4-6	7-8	3500	1	*
23·2	+22	W'N	3	z	37	97	36	5	4	4	–	2-3	2-3	3500	1	*
20·6	+22	W'N	4	b	37	92	34	7	4	–	–	1	1	2500	1	*
20·8	+22	W'N	4	b	38	85	34	8	–	4	–	1	1	–	1	*
20·6	+18	WNW	3	z	36	85	32	6	2	–	–	1	1	2500	0	2
17·8	-14	W	4	b-bc	40	85	37	7	4	–	–	2-3	2-3	4000	0	4
19·7	+26	W	3	c-bc	34	85	31	7	5	–	–	7-8	7-8	2500	3	*
21·6	+28	SSE	2	b-bc	41	75	35	7	5	–	–	2-3	2-3	2000	1	*
21·3	+22	–	0	b-bc	36	75	30	8	5	4	–	1	2-3	2500	3	*
22·3	+2	NNW	5	bc	45	85	42	8	9	7	–	2-3	4-6	2000	1	3
21·5	+14	WNW	1	pr	44	92	42	8	2	–	–	7-8	7-8	2000	1	2
18·6	+16	SW	2	b-bc	38	92	36	8	4	–	–	2-3	2-3	2200	0	2
19·2	+24	WNW	2	bc	36	85	30	7	5	–	–	9+	9+	2000	3	*
18·1	+36	WNW	3	b	38	75	30	7	5	–	–	Tr	Tr	2500	3	2
17·1	+34	NW	5	sjp	40	85	35	8	3	–	3	9	9	2000	1	*
12·1	+46	WNW	4	c/pr	45	85	42	8	3	–	3	9	9+	1500	1	4
26·5	+20	W	3	bc	50	92	48	7	6	–	–	4-6	4-6	1500	1	3
21·9	+10	WNW	3	d	47	92	45	7	5	–	–	10	10	2500	2	3
25·0	+26	SW	2	b-bc	39	97	38	7	5	–	–	2-3	2-3	2000	1	*
26·7	+10	SSW	1	c-bc	37	97	36	8	5	–	–	7-8	7-8	2500	1	*
30·0	+14	NW	4	s/r	51	85	47	8	5	–	–	10	10	1500	1	4
20·0	+18	N'W	4	bc	42	97	41	8	5	–	–	4-6	4-6	2500	1	4

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Hrs. (38)
*	*	*	*	*	23·0
44	33	22	Tr	–	0·0
48	32	27	Tr	–	0·4
47	30	18	–	–	0·6
47	32	26	Tr	–	2·1
47	33	26	0·5	Tr	*
47	43	26	–	–	0·3
45	34	31	Tr	–	0·0
44	32	25	–	–	0·1
44	34	32	–	–	0·6
41	32	29	–	–	0·6
42	31	25	0·2	–	*
43	31	28	–	–	2·3
43	37	33	–	–	0·2
45	31	24	–	–	*
45	35	26	–	–	1·7
46	44	44	–	–	0·6
45	32	27	Tr	Tr	2·7
45	38	*	–	–	*
48	33	22	3	–	0·0
47	38	*	3	–	0·0
50	45	*	2	–	0·2
48	41	*	0·6	Tr	2·1
47	39	33	–	–	*
46	36	29	0·3	Tr	3·1
42	35	30	1	0·3	*
45	36	*	–	–	3·5
43	35	27	–	–	8·2
42	36	31	–	–	*
40	38	*	–	–	*
41	33	24	–	–	6·0
42	35	28	–	Tr	4·9
39	32	25	0·1	–	0·0
45	40	*	1	7	1·3
44	39	36	0·3	0·5	3·0
42	36	29	1	0·1	0·2
36	32	26	–	–	0·2
41	37	31	–	–	5·3
43	38	35	5	3	*
45	46	38	3	3	0·1
46	45	*	0·3	1	*
45	42	*	0·5	0·3	0·6
41	36	30	0·2	0·5	1·5
41	31	26	–	–	1·3
48	44	29	0·2	0·3	2·3
46	41	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 23rd December				18h. G.M.T.				01h. G.M.T. 24th December				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	97	81645	57786	8-	81644	27785		9-	81645	60685		8-	01754	27514	
115	87	81734	91787	57	81844	65687		87	02854	65686		57	10854	32426	
203															
206	36	26855	24587	30	81853	59683		8-	02865	24285		80	01854	24384	
210				26	02844	57687		40	01961	59511		5-	02865	59425	
219	86	10855	27685	86	25854	28584						57	02855	18126	
230	36	25953	24384	8-	02863	24325		8-	25856	28386		8-	81856	28286	
245	50	01861	20201	50	01861	24211		50	01761	57403		50	01853	25213	
260				50	08			00	08						
277				80	01844	26384									
279	83	01853	22314	8-	02763	22215		50	01753	14213		20	01741	24388	
285	23	01													
288	03	01893	23413	00	05690	26310		00	01783	22303		00	00890	23300	
575	83	01853	30215	34	81754	00025		30	01753	26584		62	51634	18158	
301	86	01864	25315	8-	25654	28284		40	05663	28383		40	01764	26414	
321	51	05565	22215	04	08490	24213		54	05563	26213		00	05590	28100	
299								40	01						
292	56	01764	22324	06	01890			04	01894	24114		00	05690	00010	
310				20	02624										
614				50	08			50	05			00	05		

13h. G.M.T. 23rd December				18h. G.M.T.				01h. G.M.T. 24th December				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	20	01854	26144	2-	02853	26115		24	02853	26234		2-	02857	32107	
334	--	05552	02214									--	02643	02114	
340	14	01753	24213	8-	25856	24285		50	01864	26424		83	01853	22314	
136	53	05566	21227	00	08490			00	08490	23200		04	08491	25401	
336	10	01										50	01753	20313	
350	53	05663	24115	00	08490	22110		04	05592	24112		04	05592	24112	
368	57	05552	06123	40	05563	14123		57	08464	24125		54	05664	28214	
379	14	05661	14115					5-	05656	28326		50	01762	28212	
390	53	45274	20145	5-	45276			00	43390	24100		04	08490	25212	
382	03	08494	00045	57	05563	30123		57	08464	30215		07	05692	29112	
438	8-	63		8-	05										
430	57	08						50	05			50	05		
449	57	02733	06268	84	01842	02424		20	01763	30323		20	02755	30415	

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: 24th December, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew ...	bcfcFf	cff	cbcbfff	
Croydon ...	cm$_3$wcm$_2$	cm$_2$cfbcfw	bfwbfx	Kew 24 hours ended 7h. Max. Time
Greenwich ...	cfm	cmf	dbxff	1·1 10-11h
Camden Square ...	c	c	*	Min. Time
Kensington ...	bcm	bccm	*	0·2 23rd 2·5h 24th
Hampstead ...	bcm	bc	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h %	Humidity 9h %
						Yesterday		To-day
Kew ...	44	33	22	Tr	–	0·0	*	*
Croydon ...	48	32	27	Tr	–	0·4	*	*
Greenwich ...	46	31	27	–	–	0·0	83	95
Westminster ...	45	31	24	–	–			94
Regents Park ...	44	34	26	–	–		84	90
Camden Square ...	44	34	25	–	–	*	*	91
Kensington ...	45	32	23	Tr	–		87	90
Hampstead ...	43	32	23	–	–		*	87

SECRET

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

Saturday 25th December 1943 — No. 29383

OBSERVATIONS at 13h. G.M.T. 24th December

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)	28·2	+8	WNW	2	m	42	75	36	4	–	–	–	0	0	–
	Croydon ...	28·0	+8	W	2	bf	42	85	37	3	–	–	–	0	0	–
	S. Farnborough	28·6	+10	WNW	3	2_o	45	75	36	6	1	–	–	Tr	Tr	3000
	Boscombe Down	28·9	+10	NW'N	4	2_o	44	75	37	6	5	4	–	2-3	2-3	4000
	Thorney Island	28·1	+12	NW'N	1	b	45	75	38	7	1	–	–	Tr	Tr	2000
	Lympne ...	27·1	+10	NNW	2	m	41	85	36	4	–	–	–	0	0	–
	Manston ...	26·6	+14	NW'N	3	2_o	41	85	36	5	–	–	–	0	0	–
2	Shoeburyness ...	26·3	+10	NW	1	2_o	42	85	37	5	–	–	–	0	0	–
	Felixstowe ...	26·3	+10	NW'N	3	2_o	41	85	37	6	–	–	–	0	0	–
	Gorleston ...	26·2	+12	NW'N	2	2_o	41	85	36	5	–	–	–	0	0	–
	Mildenhall ...	26·5	+14	WNW	3	2_o	40	85	37	5	–	–	–	0	0	–
	Cranwell ...	26·8	+10	NNW	3	m	43	75	36	4	–	–	–	0	Tr	–
3	Birmingham ...	27·4	+14	NW	3	2_o	44	85	39	6	5	–	–	7-8	7-8	2500
	Upper Heyford	28·0	+6	WNW	3	b-bc	43	75	37	7	5	–	5	2-3	2-3	4000
4	Ross-on-Wye	28·3	+6	W'N	2	cbc	47	75	38	8	5	–	6	Tr	7-8	3000
5	Hartland Point	30·6	+14	N	2	bc	47	85	42	8	2	4	–	2-3	4-6	2500
	Bristol ...	29·9	+14	N	2	2_o	44	75	38	6	–	4	5	0	4-6	–
	Portland Bill ...	29·8	+20	NW	3	c-bc	45	85	40	8	1	–	–	7-8	7-8	5000
	Plymouth ...	31·0	+12	NNW	3	bc	47	75	41	7	2	–	6	2-3	4-6	3000
	The Lizard ...	31·3	+18	NW	3	bc	51	75	43	8	2	6	2	4-6	4-6	3000
	Scilly (St. Mary's)	32·3	+18	NNW	3	c-bc	50	75	43	8	8	4	2	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	30·7	+10	NNW	3	c-bc	47	85	44	8	1	7	4	2-3	7-8	5000
7	Holyhead (Valley)	28·9	+10	W'N	3	c	48	85	45	8	5	–	–	4-6	9	800
	Chester (Sealand)	27·9	+14	WNW	2	c	48	75	40	8	8	–	–	7-8	9	2500
8	Manchester ...	27·6	+20	SW	1	2_o	45	92	41	5	2	6	3	4-6	7-8	2000
10	Spurn Head ...	26·0	+20	NW	4	2_o	41	85	36	6	–	–	–	0	0	–
	Catterick (Sc) ...	26·2	+18	NW	3	bc	45	75	37	8	5	3	1	Tr	4-6	4000
	Tynemouth ...	25·7	+14	W	3	2_o	40	75	31	6	–	4	–	2-3	4-6	–
11	St. Abbs Head	23·7	+20	WNW	4	c	43	75	36	7	4	4	–	4-6	9	2500
	Leuchars ...	24·0	+12	WSW	2	2_o	39	85	34	6	5	7	–	7-8	9+	5000
12	Renfrew (Abbotsl.)	25·3	+12	W	1	dd	43	97	42	5	5	2	–	7-8	10	1200
	Eskdalemuir ...	25·5	+16	S	1	c	41	85	36	8	5	7	–	2-3	9	2500
	Point of Ayre ...	26·6	+16	NW'N	4	c	47	92	45	8	5	7	–	9	10	1500
13A	Tiree	24·5	+16	WSW	3	2_o	49	97	49	6	5	–	–	10	10	800
13B	Stornoway ...	20·2	+4	SW	3	c/d	47	92	45	7	5	7	–	4-6	9	1800
15	Dalwhinnie ...	23·2	+18	SE	1	c	41	75	35	8	5	3	–	4-6	9	2500
	Aberdeen ...	23·0	+20	NNW	2	2_o	41	75	34	6	5	–	6	Tr	9+	4000
	Wick ...	21·1	+10	W3W	2	c	41	92	39	9	5	7	–	4-6	9+	1500
16	Sumburgh ...	18·7	+22	W	5	c	44	75	37	9	8	–	–	9+	9+	2000
17	Blacksod Point	29·5	+8	SW'W	3	S	50	85	46	8	5	–	6	4-6	9	2500
18	Malin Head ...	25·5	+16	NE'N	3	iR	48	92	46	6	6	–	–	9+	9+	800
	Aldergrove ...	27·9	+10	SW	2	2_o	44	97	44	6	5	7	–	4-6	9+	800
19	Birr Castle ...	30·1	+10	SSW	1	bc	48	92	46	8	–	–	5	0	4-6	–
20	Valentia Obsy.	33·3	+6	W	3	c	51	85	47	8	7	–	–	9+	9+	4000
	Roches Point	32·0	+12	NNW	3	bc	51	92	49	8	5	–	5	1	4-6	1500

OBSERVATIONS at 18h. G.M.T. 24th December

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)
31·3	+20	W'N	2	bcf	41	85	37	3	5	3	–	4-6	4-6	1800	1	*
31·1	+18	NW	1	cf	42	85	38	2	5	–	–	9+	9+	1900	1	*
31·7	+22	W	1	2_o	39	85	36	6	5	–	–	4-6	4-6	4000	1	*
31·5	+16	NW'N	1	2_o	38	92	35	6	–	4	–	0	Tr	–	1	*
31·7	+22	W'N	2	2_o	40	85	36	5	5	–	–	7-8	7-8	3000	1	*
30·9	+24	NNW	3	m	35	92	33	4	–	–	–	0	0	–	1	*
29·9	+20	NW'N	3	m	38	92	36	4	–	–	–	0	0	–	1	*
30·3	+20	NW	1	2_o	36	92	34	5	–	–	–	0	0	–	1	*
30·2	+30	NW	3	m	37	85	32	4	–	–	–	0	0	–	0	2
38·6	+18	WNW	2	2_o	37	85	33	5	–	–	–	0	0	–	3	2
30·0	+22	W'N	2	m	34	97	33	4	–	4	–	0	Tr	–	0	*
29·7	+10	W'N	2	m	36	97	36	4	5	–	–	2-3	2-3	2500	0	*
30·8	+14	W	2	2_o	44	85	39	5	5	–	–	10	10	2500	1	*
31·0	+18	NW	1	b	37	97	36	7	–	7	–	0	1	–	1	*
31·2	+12	SSW	2	c-bc	44	85	39	8	5	7	1	2-3	7-8	2500	1	*
32·8	+12	NW	2	c	47	65	46	8	5	–	–	9+	9+	1500	1	4
32·1	+14	W	2	2_o	42	92	40	6	–	7	–	0	4-6	–	1	*
32·0	+4	NW	3	bc/p	47	85	43	8	5	–	–	4-6	4-6	5000	1	4
33·5	+14	NW	1	2_o	45	92	43	6	5	–	–	Tr	Tr	2500	0	1
33·4	+2	NNW	2	2_o	43	92	41	6	2	–	–	4-6	4-6	2500	0	3
34·0	+10	NW	2	c	49	97	49	8	8	–	–	10	10	1200	1	4
33·0	+10		4	b-bc	49	97	48	7	2	–	–	2-3	2-3	2500	1	2
30·7	+6	W'N	3	2_o	47	92	45	6	5	7	–	1	4-6	1500	1	2
30·2	+26	NW'N	3	2_o	47	85	43	5	5	7	–	4-6	10	800	1	*
29·7	+12	W	2	df	44	97	43	3	–	2	–	10	10	1000	1	*
29·0	+8	WNW	3	2_o	39	85	36	6	–	–	–	0	0	–	1	3
28·5	+10	S	1	2_o	40	97	39	6	5	3	–	4-6	4-6	3000	1	*
27·6	+8	W	3	m	42	85	38	4	5	–	–	9	9	2500	1	3
35·5	+10	SSW	3	c	45	85	40	7	5	–	–	10	10	2500	0	3
25·9	+10	SW	2	bc	36	97	36	6	–	7	–	0	4-6	–	1	*
26·6	+6	NSW	1	m	45	97	45	4	5	–	–	7-8	7-8	2000	1	*
28·0	+10	–	0	ido	40	97	39	6	5	–	–	8+	9+	1100	1	*
28·8	+14	NW	4	c	48	92	46	8	5	–	–	8	9	1000	1	3
26·3	+14	SW	4	c	48	97	47	7	5	–	–	10	10	2000	1	2
21·3	+2	SW	3	c	47	85	44	7	5	7	–	4-6	9+	3000	1	2
26·0	+14	SW	3	ic	39	92	37	7	5	–	–	9	9	2000	1	*
24·9	+10	W	1	b-bcf	39	85	34	2	5	–	–	2-3	2-3	4000	1	1
22·4	+8	SSW	2	bc	41	97	41	7	5	5	5	2-3	4-6	2000	1	*
19·9	+2	SW/S	5	c	46	97	45	8	5	7	–	9	10	1000	1	4
29·6	-2	SW	3	c	49	92	47	7	5	–	–	10	10	2500	1	3
27·0	+10	W	3	ido	47	85	43	7	5	–	–	9+	9+	1300	2	3
29·7	+14	WSW	2	bc	45	92	43	7	5	3	–	4-6	4-6	1800	1	*
31·8	+8	SSW	1	c	45	92	43	7	5	–	–	10	10	1300	1	*
33·9	+6	SW	3	o	49	85	45	8	5	–	–	10	10	4500	1	1
34·2	+12	–	0	c	49	97	49	8	8	–	–	9	9	1300	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 24th (39)	13h.–18h. 24th (40)	18h. 24th – 1h. 25th (41)	1h.–7h. 25th (42)
bfxbm	$c_2$bcf	bfwx	cfmw
bfxbmbf	bfbfbcfcf	cfcir$_o$	c_2r$_o$fcm
bmxbm$_2$	$b_2$bcmw	bcmcwid$_o$m$_o$	cm$_o$
bmidom$_o$	idobcmobmbcm$_o$	cm$_o$ccmw	
bmidozdo	bc	bccm	cmcm$_o$w
bmo	bmzm	bfx	bFxcm
bmo	bmom	bf	bbcefcm
bfxbm	bmo	bm$_o$	cm
bmombm	bmobm	bmf	bm
bcbm$_2$	b_2c$_2$	b_2c$_o$	bzfx
mbx	bmxbmbmzfxcf	cfcidof	
bmbz	bcmo	bcmcm	cmcm$_o$
cbcc	cz	cbcc	c
bcm$_o$xbxbbccbcbcm$_o$			cm$_o$jebcwcw
bbc ⊕	cbcc	cbc	bcc
bbc	bcc	bcc	c
bmoxbmo	b_2c$_o$bcm$_o$cmbcm$_o$bmox		cmxbfbm
bcc	cbc	c	c
bcfsfglbbc		bacidbm$_o$	cmx
bc	bc$_2$o	bc$_2$o	bccow
bcc	cbcb	cbcw	bcc
bc	cmobc	bc	cbc
bcc	idobcmo	cm$_o$	cm$_o$
bc$_2$o	pridomocidom$_o$m		mmo
bccmo	fofodcfom	dofficm	cmm$_o$
bzo	bmo	cm	bcwmo
b	ccmo	cm$_o$	cmo
bcmo	bcmom	cbcmo	como
bcc	croc	cbc	bcb
bcxbcc	cbcmo	bcm$_o$cf	efbcmcmo
bccmodd	cdomo	cid$_o$m$_o$	cid$_o$m$_o$cm$_o$
bcxc	cido	cir$_o$bc	cir$_o$bc
bcc	cbcc	bcbb	bcc
cmo	cmoc	cid$_o$ir$_o$m$_o$	cd$_o$m$_o$
bcc idoc	ccmoc	cciro$_d$d$_o$c	cm$_o$coddng
c	ciro		cir$_o$o
bxbcc	c2bcff	bcf	bcfcpr$_o$bcm
c	ciroidoc	bco	cbc
eproc	c	cid$_o$bc	bccmo
bc.	c	s	r
r	d	c	r
crrmcmo	cmobc	bcccid$_o$c	c
bc	c	*	c
c	c	c	c
pr	pr	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 25th December, 1943.

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

Light west to southwest wind; mainly cloudy; poor or moderate visibility; rather cold, mild later.

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

Moderate or fresh southwest wind; cloudy; local rain, moderate visibility; rather cold.

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 or strong southwest wind, gale force in north at first; cloudy with local rain at first becoming fair apart from showers in northwest; good visibility, moderate locally.

16	Orkneys and Shetlands ⚜

As 11-15

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

As 7-10

GENERAL INFERENCE

Pressure is high to the Southwest of the British Isles, and troughs in the west are moving east. It will be cloudy in most areas at first, with local rain in north giving place to mainly fair conditions later. Strong to gale winds in north. Rather cold.

FURTHER OUTLOOK

Little Change.

⚜ Gale warnings in operation in districts 12, 13, 14, 15, 16, 17, 18, issued 0230h G.M.T. 0541, 0855h G.M.T. 25.12.43.

Forecasts issued at 10·30

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

7h Saturday 25th December 1943.

Low

HIGH

STATION MODEL

High Cloud

Total Amount of cloud

Medium cloud

Wind

Temperature °F.

Barometer mb.

Present weather

Bar. change in past 3 hours in tenths mbs.

Visibility

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

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

Scale 1.: 5,000,000

Mb.

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Saturday 25th December

1943.

HIGH

HIGH

LOW

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Saturday 25th December 1943 — No. 29983

OBSERVATIONS at 1 hr. G.M.T. 25th December

District	Stations	Height above M.S.L. in feet.	Baro.m. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F (6)	Humid. % (7)	Dew Point. °F (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*
	Croydon ...	290	33·6	+4	–	0	mf	40	97	39	2	5	–	–	10	10	1000
	S. Farnborough	226	33·7	+4	WSW	2	o/d	40	92	38	5	5	–	–	10	10	2700
	Boscombe Down	417	34·0	+8	WNW	2	z_o	39	97	38	6	5	–	–	9	9	2700
	Thorney Island	10	33·8	+6	WSW	2	m	41	85	38	4	5	–	–	10	10	2200
	Lympne ...	341	33·7	+8	NNW	2	bf+	32	97	32	0	–	–	–	0	0	–
	Manston ...	154	32·4	+6	WNW	1	bf	34	97	33	3	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	32·5	+4	NW	1	bf+	35	97	35	3	–	–	–	0	0	–
	Gorleston ...	5	31·3	0	NW'N	2	z_o	33	85	30	5	–	–	–	0	0	–
	Mildenhall ...	15	32·2	+2	SW	3	bf–	36	97	35	3	5	–	–	10	10	800
	Cranwell ...	203	31·6	+2	W	2	m	42	97	42	4	5	–	–	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	32·9	+6	W'S	2	z_o	39	97	39	6	5	–	–	7-8	7-8	2700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·7	+2	WSW	2	c	48	97	47	7	5	–	–	10	10	2500
	Bristol ...	209	34·2	+4	NW	2	m	40	97	40	4	–	7	–	0	10	–
	Portland Bill ...	32	33·9	+14	NW	3	c-bc	45	85	40	8	5	–	–	7-8	7-8	4500
	Plymouth ...	86	36·1	+14	NW'W	3	z_o	45	97	44	5	5	–	–	7-8	9	1000
	The Lizard ...	240	35·8	+8	NW	3	z_o	45	97	45	6	5	–	–	4-6	4-6	2000
	Scilly (St.Mary's)	163	35·9	+2	NW'N	4	bc	49	85	46	8	8	–	–	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	30·5	+10	NW	2	bc	49	92	47	7	7	–	–	4-6	4-6	2000
7	Holyhead (Valley)	32	32·8	+2	N	3	z_o	47	92	45	6	–	7	–	0	10	–
	Chester (Sealand)	16	32·0	-2	–	0	m	46	85	42	4	5	2	–	4-6	10	1500
8	Manchester ...	230	31·8	0	W	3	m	45	97	45	4	5	–	–	10	10	1000
10	Spurn Head ...	29	30·6	0	W	3	m	40	92	38	4	7	–	–	9+	9+	1500
	Catterick (Sc.) ...	192	30·5	+6	SW	1	z_o	41	97	40	5	5	–	–	7-8	7-8	3500
	Tynemouth ...	108	29·2	+4	W	2	z_o	43	92	41	6	5	–	–	2-3	2-3	2500
11	St. Abbs Head	280	26·7	-4	W	4	bc	43	92	41	7	5	–	–	4-6	4-6	4000
	Leuchars ...	31	26·0	-6	WSW	3	c-bc f	41	97	41	3	5	1	–	4-6	7-8	3000
12	Renfrew (Abbotsl.)	19	28·1	+2	SW	3	id_o	46	92	44	6	5	2	–	7-8	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	30·6	+4	WNW	3	b-bc	46	92	44	8	5	7	–	2-3	2-3	2500
13A	Tiree	44	24·6	-20	SW'S	5	id_g	49	92	47	6	5	–	–	9+	10	1500
13B	Stornoway ...	12	18·1	-26	SSW	6	c/d	48	85	44	7	5	–	–	9+	9+	1400
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	24·3	-14	SE	1	bc	41	85	36	8	5	–	–	4-6	4-6	3500
	Wick ...	114	21·6	-10	SW	4	c	44	97	43	8	5	–	–	9	9	3000
16	Sumburgh ..	15	19·0	-10	SW	6	z_o	47	97	46	6	5	–	–	2-3	2-3	1500
17	Blacksod Point	18	27·9	-10	S	6	c	51	75	44	7	5	–	–	10	10	1500
18	Malin Head ...	84	26·0	-14	S'W	3	c	47	85	43	8	5	–	–	10	10	1500
	Aldergrove ...	294	30·2	-6	SSW	3	c	45	92	43	7	5	–	–	10	10	3800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	34·4	+2	SW	2	c	50	85	46	8	5	–	–	10	10	3500
	Roches Point	22	35·3	+4	W'S	2	c	49	97	48	8	5	–	–	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 25th December

Baro.m. 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)
34·4	+2	SW'S	2	m	40	97	39	4	5	–	–	10	10	1500	1	*
34·4	+2	–	0	m	41	92	40	4	3	–	–	9	9	2500	1	*
34·6	+2	WSW	1	z_o	41	92	39	6	5	–	–	10	10	3600	1	*
34·9	-2	WNW	1	m	40	97	40	4	5	–	–	10	10	3000	0	*
34·5	0	NW'N	2	z_o	41	85	39	5	5	–	–	4-6	10	2500	1	*
34·6	0	NW'W	2	m	37	97	37	4	5	–	–	10	10	600	1	2
33·6	+2	W'S	2	c f+	37	92	35	3	5	–	–	9+	9+	2000	1	*
33·2	0	W	1	m	40	97	39	4	5	–	–	10	10	2000	1	*
33·2	0	–	0	m	38	97	37	4	–	–	–	0	0	–	1	1
32·0	0	W	3	m p	37	97	37	2	–	–	–	10	10	450	1	2
32·8	-2	SW'W	3	of–	35	97	38	3	5	–	–	10	10	2500	0	*
32·1	0	WSW	3	z_o	39	97	38	5	5	–	–	7-8	7-8	3500	0	*
33·0	-2	WSW	2	z_o	44	75	38	6	5	–	–	10	10	1500	1	*
33·9	+2	WSW	1	z_o	39	92	37	5	5	–	–	10	10	4400	1	*
33·7	0	SW	2	c	43	85	40	7	5	–	–	10	10	1500	1	*
34·6	-6	WNW	2	c	48	97	48	7	5	–	–	10	10	1500	1	3
34·7	-8	–	0	m	43	92	41	4	5	–	–	10	10	4000	1	*
35·0	0	NW	3	c	47	85	43	8	5	–	–	9	9	4500	1	4
36·3	-6	N	1	m	42	97	42	4	5	–	–	10	10	4000	1	4
35·6	-8	NW	2	z_o	46	92	44	6	5	–	–	10	10	1500	1	3
36·2	-8	WNW	3	c	48	75	43	8	5	–	–	10	10	1200	1	3
33·5	-4	WNW	4	bc	50	85	47	8	2	–	–	4-6	4-6	1500	1	4
31·8	-10	SW	4	z_o	48	85	44	6	5	–	–	10	10	4000	0	2
31·8	-18	WSW	2	z_o	48	97	48	5	5	–	–	7-8	10	4500	1	*
31·0	-18	SW'S	3	z_o	43	92	41	5	5	–	–	10	10	3100	1	*
31·1	0	W'S	3	z_o	42	97	41	5	7	3	–	2-3	4-6	2500	1	3
29·6	-12	SSE	2	z_o	44	92	42	6	5	7	–	4-6	10	4200	0	*
28·4	-14	S	3	z_o	44	92	42	6	5	–	–	10	10	1500	1	3
24·7	-18	SSW	3	c-bc	43	92	41	7	5	2	–	4-6	7-8	2500	0	3
22·6	-26	SW	5	z_o	45	85	42	6	5	2	–	7-8	10	2500	1	*
24·1	-24	SSW	3	z_o	48	85	44	6	5	2	–	7-8	10	2000	1	*
26·3	-22	SSW	3	c	43	85	40	6	5	–	–	9+	9+	300	1	*
28·4	-20	W	4	c	48	75	41	8	5	2	–	7-8	10	2500	0	3
20·2	-24	SW'S	7	$d_o d_o$	49	97	43	5	5	–	–	10	10	600	1	4
10·9	-40	S	8	dd	50	92	48	6	5	–	–	10	10	1000	2	6
21·4	-28	SW	5	o	42	92	39	6	5	–	–	10	10	2000	1	*
20·5	-22	WSW	3	m	42	92	40	4	5	–	–	4-6	4-6	2500	1	2
14·6	-50	SSW	6	c	46	92	44	8	5	–	–	9+	9+	3000	1	*
12·5	-50	S'W	6	z_o	48	85	45	6	5	–	–	10	10	1400	1	4
25·9	-6	SW	7	rr	50	92	48	6	6	2	–	4-6	10	800	1	5
22·6	-6	SSW	5	dr	48	92	46	7	5	–	–	10	10	1500	2	4
27·0	-18	SSW	4	c	44	97	43	7	5	–	–	9+	9+	2500	1	*
30·0	-16	SSW	3	c	49	75	42	7	5	–	–	10	10	1500	1	*
33·4	0	SW'S	4	o	51	75	44	8	5	–	–	10	10	3500	1	5
33·0	-26	WSW	2	c	49	92	47	8	5	–	–	9	9	1500	1	4

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 24th Hrs. (38)
*	*	*	*	*	*
44	37	24	Tr	Tr	4·0
43	34	28	–	0·1	2·7
45	33	21	–	Tr	5·7
44	34	26	–	Tr	5·0
45	37	30	–	–	*
42	32	23	–	–	5·5
41	32	29	0·1	Tr	3·7
43	33	29	–	–	5·3
43	33	28	–	0·5	5·6
42	32	32	–	–	5·0
42	29	21	Tr	Tr	4·6
45	35	26	0·1	–	4·2
*	*	*	*	*	*
45	42	33	–	–	*
43	35		–	–	*
47	34	27	–	–	4·6
47	46	43	–	–	4·1
46	34	31	Tr	Tr	5·9
47	44	*	–	–	*
48	42	29	–	Tr	4·8
51	45	*	–	–	6·1
51	47	*	–	–	5·3
49	47	*	Tr	Tr	*
48	45	40	Tr	–	*
48	45	40	Tr	Tr	1·2
46	43	41	Tr	0·2	*
42	37	*	–	Tr	6·0
44	38	28	–	–	4·5
42	42	37	–	–	*
45	41	*	Tr	–	*
42	35	28	–	–	1·3
45	43	32	0·6	0·3	0·0
42	39	36	0·1	0·2	1·5
48	42	*	–	–	0·3
50	46	44	1	1	0·0
48	45	43	Tr	0·5	0·0
53	37	33	Tr	0·2	0·4
42	36	25	–	Tr	2·3
43	41	38	0·3	–	*
46	43	38	0·2	Tr	0·0
50	48	*	–	1	*
48	45		3	1	0·0
46	43	41	2	0·2	*
49	45	43	–	–	1·5
51	47	44	–	–	0·6
51	47	*	0·3	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 24th December			18h. G.M.T.			01h. G.M.T. 25th December			07h. G.M.T.		
	III $C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN
109	57	01865	20228	5-	21638	16358	52	02755	17428	52	02654	47527
115	52	03744	20327	52	02844	20367	22	81844	43867	24	02844	53626
203							5-	03				
206	53	02854	20526	53	02955	20415				57	02854	53527
210	5-	02367	20327	57	02864	20227	53	02864	21327	53	02865	51527
219	53	22644	22465	57	22755	20468				5-	52638	51858
230	52	62727	20168	50	23757	24387	5-	21758	20488	5-	52638	51458
245				58	02762	28124	54	01763	22114	57	02765	20427
260				5-	05							
277	57	21644	22367	54	01743	23364						
279	57	62745	24217	5-	01544	20466				52	05655	55628
285	27	05										
288	00	05694	3114	53	01763	19223	57	05675	18227	57	05665	16327
575				57	02765	26186	52	21664	22158	5-	51646	53528
301	57	02865	27326	5-	05657	22127	02	05620	24128	07	05690	22328
321	04	05590	26303	57	47354	00015	50	45365	20145	5-	08458	20228
290	00	05		--	05670	24200	5-	02		50	01	
292	07	01793	28213	50	05654	20214	5-	45368	30838	5-	05568	20128
310												
614	02	05					07	43		5-	43	

	13h. G.M.T. 24th December			18h. G.M.T.			01h. G.M.T. 25th December			07h. G.M.T.		
	III $C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN	$C_L C_M$	ww $V h_n N_h$	DDFWN
333	57	02741	25317	50	03653	28213	5-	05668	20228	5-	02768	00028
334				--	02646	28317						
340	56	02754	26125	51	22644	23268	52	05666	00028	52	02866	22228
136	00	05590	26300	00	08490	26200	5-	47348	20248	--	44209	22249
336				50	05							
350	50	05563	26103	40	05563	24113	5-	05538	22128	5-	05568	20128
368				54	05652	24214	5-	05655	28125	5-	05568	26128
379				57	02754	28218	5-	05646	28326	57	05654	26228
390	00	05590	30200	03	47390	26213	--	46208	00049	5-	43348	20148
382	54	01763	27303	54	04562	00072	50	05552	25128	57	08454	00028
438	00	05								8-	05	
430	10	01					5-	08		5-	08	
409	84	02953	28316	84	81753	28315	5-	05644	00014	57	05665	27228

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 25th December
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 ...	bfxbm	czbcf	bcfwxnw	
Croydon	bfxbnbf	bfbcfcf	cfcr9cm	
Greenwich ...	bfm	bam	bcmf	
Camden Square	bbc	c	*	
Kensington ...	bcbcw	bcof	*	
Hampstead ...	bc	o	of	

Kew 24 hours ended 7h. Max. Time 0·9 8-8h 24th Min. Time 0·2 2-5h 25th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	44	37	24	Tr	Tr	4·0	*	*
Croydon ...	43	34	28	–	0·1	2·7	*	*
Greenwich ...	43	35	29	–	–	1·9	77	90
Westminster ...	45	33	28	–			83	95
Regents Park ...								
Camden Square	45	37	27	–	–	*	*	94
Kensington ...	44	38	26	Tr	Tr		88	93
Hampstead ...	44	24	27	–	–		*	97

SECRET

Page 1

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

Sunday 26th December 1943 — No. 29984

OBSERVATIONS at 13h. G.M.T. 25th December

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)	34·8	−4	NSW	2	of+	44	85	41	3	5	–	–	10	10	2100
	Croydon ...	34·9	−2	NSW	2	m	46	75	40	4	5	–	–	4-6	10	3500
	S. Farnborough	35·2	+2	WSW	2	c	44	92	41	7	5	–	–	10	10	3000
	Boscombe Down	35·5	−4	W	1	Zo	45	92	43	6	5	–	–	10	10	3500
	Thorney Island	35·6	+2	–	0	mf	44	92	42	4	5	–	–	10	10	1500
	Lympne ...	35·3	0	NNW	1	m	41	97	41	4	5	–	–	9+	9+	2500
	Manston ...	34·4	0	NNW	2	cf-	43	92	41	3	5	–	–	10	10	4000
2	Shoeburyness ...	34·5	+2	WS	1	of+	45	85	42	3	5	–	–	10	10	1500
	Felixstowe ...	33·6	0	NNW	3	m	42	92	39	4	5	–	–	10	10	4000
	Gorleston ...	31·7	+8	NW	2	cf-	42	92	40	3	5	–	–	10	10	1500
	Mildenhall ...	33·5	0	SW	2	Zo	44	85	40	5	5	7	–	4-6	10	5000
	Cranwell ...	31·4	−14	WS	4	m	47	75	41	4	5	7	–	7-8	9+	2000
3	Birmingham ...	33·0	−10	SW	2	Zo	47	75	40	6	5	7	–	4-6	9+	4000
	Upper Heyford	34·1	−6	SW	2	Zo	44	85	40	6	5	–	–	10	10	3000
4	Ross-on-Wye	33·3	−16	SWS	2	Zo	49	75	41	6	5	7	–	7-8	9+	2500
5	Hartland Point	34·9	+12	W	3	c	49	92	47	8	5	–	–	10	10	1500
	Bristol ...	35·5	+2	WSW	3	Zo	47	85	43	6	5	–	–	10	10	2000
	Portland Bill ...	36·1	−6	W	2	c	48	85	44	8	5	–	–	10	10	4800
	Plymouth ...	37·0	−6	WSW	1	Zo	45	97	45	6	5	–	–	10	10	2500
	The Lizard ...	37·5	+2	NW	3	c	50	85	46	8	5	–	–	10	10	2000
	Scilly (St. Mary's)	37·7	−2	W	4	c	51	75	45	8	5	7	–	7-8	10	1500
	Guernsey ...															
6	Pembroke ...	35·0	+6	WNW	4	oq	50	92	47	7	5	–	–	10	10	2000
7	Holyhead (Valley)	31·5	+2	WSW	5	c	49	92	47	7	5	7	–	2-3	10	1500
	Chester (Sealand)	30·1	−22	WN	2	c	51	75	44	8	5	7	8	4-6	9	5000
8	Manchester ...	30·5	−22	SW	4	Zo	47	85	43	6	5	7	–	7-8	10	3000
10	Spurn Head ...	30·0	−16	SW	3	Zo	44	85	39	5	7	3	–	4-6	9+	1500
	Catterick (Sc.)...	28·4	−16	SW	4	c	48	92	45	8	5	7	–	7-8	9+	2000
	Tynemouth ...	26·0	−12	SW	3	Zo	49	75	42	6	5	–	–	9+	9+	2500
11	St. Abbs Head	21·9	−4	SW	6	c	48	92	46	8	5	2	–	7-8	9	2000
	Leuchars ...	13·6	−28	WSW	5	c	49	92	47	6	5	7	7	4-6	10	2500
12	Renfrew (Abbots I.)	23·2	−4	SW	4	Zo	52	85	48	6	5	2	–	7-8	9+	900
	Eskdalemuir ...	25·1	−16	SW	5	dodo	45	97	44	5	–	2	–	10	10	200
	Point of Ayre...	27·6	−8	WN	6	c	50	85	47	8	6	7	–	4-6	9+	1000
13A	Tiree	24·5	+40	WN	5	bc	49	75	41	7	1	1	8	1	4-6	2000
13B	Stornoway ...	17·9	+48	WSW	7	cbc/pr	45	65	33	7	8	–	1	7-8	7-8	1400
15	Dalwhinnie ...	19·0	+2	WSW	5	c	46	75	39	7	8	–	9	4-6	9+	2000
	Aberdeen ...	17·6	−8	SW	4	c	48	85	44	7	5	–	6	2-3	10	2500
	Wick ...	15·5	+20	WSW	4	c-bc	46	85	42	8	5	–	–	2-3	7-8	2500
16	Sumburgh ...	08·6	+6	WSW	9	c	48	85	43	8	2	7	–	9	9+	1600
17	Blacksod Point	29·4	+20	WSW	3	c	51	92	49	7	5	–	–	9+	9+	1500
18	Malin Head ...	25·7	+18	WS	4	c	50	85	46	6	8	–	6	4-6	9	1500
	Aldergrove ...	28·4	+10	WS	2	c	49	92	47	7	5	7	–	7-8	9+	1000
19	Birr Castle ...	31·1	0	SSW	2	c	50	92	48	7	5	–	–	10	10	1500
20	Valentia Obsy.	34·1	−2	SW	4	dodo	51	97	51	6	5	–	–	10	10	400
	Roches Point	33·9	−10	WS	3	c/d	50	97	50	8	5	–	–	9	9	1500

OBSERVATIONS at 18h. G.M.T. 25th December

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)	34·6	+8	WSW	2	m	44	92	41	4	5	–	–	10	10	2100	1	*
	Croydon ...	35·0	+10	SW	1	Zo	46	85	41	5	–	7	–	10	10	1000	0	*
	S. Farnborough	35·0	+8	WSW	3	Zo	45	92	42	6	5	7	–	7-8	10	4000	1	*
	Boscombe Down	35·2	+6	W	3	Zo	46	92	44	6	5	–	–	4-6	10	1000	1	*
	Thorney Island	35·5	−2	W	1	m	44	75	42	4	5	–	–	4-6	10	700	1	*
	Lympne ...	35·3	+2	WNW	3	m	41	85	39	4	5	–	–	9	9	2700	1	§2
	Manston ...	34·8	+2	WS	2	Zo	42	85	38	5	5	–	–	10	10	2300	1	*
2	Shoeburyness ...	33·3	+4	SW	1	of+	43	85	39	3	5	–	–	10	10	2000	1	*
	Felixstowe ...	33·4	0	WS	2	f+	42	85	39	1	-	–	–	10	10	<150	1	1
	Gorleston ...	32·4	+2	W	2	c	44	75	38	5	5	–	–	10	10	1500	1	2
	Mildenhall ...	32·9	+10	SW'W	3	Zo	44	85	40	5	5	–	–	10	10	2300	1	*
	Cranwell ...	31·3	+6	SW'W	4	m	46	92	44	4	5	–	–	10	10	2000	0	*
3	Birmingham ...	33·0	+6	WSW	2	Zo	48	85	44	6	5	7	–	4-6	10	2500	1	*
	Upper Heyford	33·6	+2	WSW	1	m	44	92	42	4	5	–	–	9	9	2000	1	*
4	Ross-on-Wye	33·6	+8	SW'W	1	c	48	85	44	8	5	1	–	7-8	9+	2500	1	*
5	Hartland Point	35·2	+14	W	3	ido	49	97	49	6	5	–	–	10	10	800	1	3
	Bristol ...	34·6	+4	W	3	Zo	47	92	45	6	5	–	–	4-6	4-6	700	1	*
	Portland Bill ...	36·1	+12	W	2	c	49	85	45	7	5	–	–	10	10	4500	1	4
	Plymouth ...	37·4	+6	W	3	iro	49	92	47	6	5	–	–	10	10	2400	1	1
	The Lizard ...	37·0	+4	WNW	3	c	50	85	46	6	5	–	–	10	10	2000	1	4
	Scilly (St. Mary's)	37·3	+2	W	5	c	50	85	46	7	5	–	–	10	10	1500	1	4
	Guernsey ...																	
6	Pembroke ...	34·1	+6	W	1	oq	50	97	50	7	5	–	–	10	10	1800	1	3
7	Holyhead (Valley)	33·0	+12	SSW	3	ldo	49	92	47	6	5	–	–	10	10	1400	1	2
	Chester (Sealand)	32·1	+16	–	0	Zo	51	85	47	6	5	–	–	9+	9+	1600	1	*
8	Manchester ...	31·5	+2	WSW	4	c/f	47	97	46	6	6	2	–	10	10	1300	1	*
10	Spurn Head ...	29·7	+2	WSW	3	Zo	42	85	37	5	5	–	–	10	10	1500	1	3
	Catterick (Sc.)...	28·4	+4	WNW	2	c	50	75	43	7	–	7	–	0	9	–	1	*
	Tynemouth ...	28·2	+28	WSW	4	Zo	51	75	44	6	5	–	–	9	9	2500	1	3
11	St. Abbs Head	25·6	+34	WNW	5	b-bc	48	75	41	6	4	–	–	2-3	2-3	2500	0	4
	Leuchars ...	26·0	+54	WSW	4	bc	47	75	39	7	5	–	8	2-3	4-6	1000	1	*
12	Renfrew (Abbots I.)	27·4	+12	W	5	Zo	47	75	40	6	5	1	–	4-6	7-8	1800	1	*
	Eskdalemuir ...	28·8	+32	SW	2	bc	44	85	38	8	5	–	–	4-6	4-6	2100	1	*
	Point of Ayre...	30·5	+16	SW'W	4	c	50	92	48	8	5	–	–	9	9	2000	1	4
13A	Tiree	28·3	+16	WNW	4	bc	46	75	38	7	5	4	–	2-3	4-6	2000	1	4
13B	Stornoway ...	23·8	+30	WSW	6	pr	43	75	37	7	9	2	–	7-8	9	1600	1	4
15	Dalwhinnie ...		+30	WSW	4	bc	40	65	32	7	5	–	–	4-6	4-6	2500	7	*
	Aberdeen ...	24·9	+44	NW	3	b-bc	45	75	38	7	5	–	–	2-3	2-3	2500	1	*
	Wick ...	22·4	+38	WSW	4	c-bc	39	92	37	8	3	–	–	7-8	7-8	2000	1	*
16	Sumburgh ...	16·4	+54	WN	8	bc/pr	41	85	37	7	2	6	–	4-6	4-6	2000	1	5
17	Blacksod Point	31·5	+10	W'N	2	b-bc	43	97	42	7	5	–	–	2-3	2-3	4000	1	2
18	Malin Head ...	29·8	+28	NW'W	3	b	47	75	40	8	8	–	–	1	1	1500	2	3
	Aldergrove ...	30·9	+20	WNW	4	b	46	75	39	7	5	–	–	1	1	1500	1	*
19	Birr Castle ...	32·8	+24	SSW	1	c	51	97	50	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	35·1	+6	SW	3	ido	52	97	51	6	5	–	–	10	10	500	1	2
	Roches Point	34·6	+8	W	2	c	51	97	50	8	5	–	–	9	9	800	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 25th (39)	13h.–18h. 25th (40)	18h. 25th to 1h. 26th (41)	1h.–7h. 26th (42)
cffw	cfwcm	cmw	cmw
cmcz	cz.	cmbcmccmo	ficlo
cmc	c	cbccmo	fwlido
cmcfcmo	cmo	cmcfcf	efofew
cmwfz	cmcfcm	bcmcmcmcidoc	
cm	cbcmw	bcmcmo	cmombcm
cofdocmo	cmom	cm	cbcbm
cmcf	cf	cf	cf
cm	bcmof	cfbm	bmebm
bcz	czo	cbczo	bcm
cfcm	cmbcmo	cmbmbcmcmo	
cmo	cm	cmcmocmbcmo	
cz	cz	cbc	bcb
ccmo	cmocm	cmbbc	bffo
c	cbcc	c	bcbw
cifo	cidoc	obfbf	cfoco
cmcmoczcmo	cmo	bcmcmocmofofc	
c	c	c	o
cmo	cmoiro	cdbdomodbdosido	
cpro	co	odbdo	odbf
c	c	cidoc	eido
cq	cq	c	c
idoc	cmo	bcmow	cmo
c	cmo	c,bcmo	c,bcmom
ccmo	dodrof	cmo	cbmofcmo
cmo	om	cm	bcmo
c	c	cbc	b
ocmo	cmo	bccmo	cbcmo
c	prcbc	bcbbc	c
cidocmo	cmoc	cbcmoc	cmobcmo
cdodombcmo	cmoccmo	bcmo	cmocdmo
crrddo	odocbc	bcbbc	bccrom
crrc	c	cb	bccoc
cdodomodbc	bccbc	bccbc	cbdomo
cddmocprc	cprccpr	cbcc	cbcpdbdmo
ocifo	bcbbc	b	bcbbc
bcmxc	cbcb	b	bbc
cifocdobcc	c	cbcc	cfdbc
crofo	bcphq	cphbc	cpror
c	b	d	d
r	b	bc	d
cidomoc	cbcb	bbcc	cidomo
r	r		d
r	r	d	d
d	c	d	d

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

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light west wind. Dull with rather general and persistent fog: mild.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light or moderate west or southwest wind. Mainly cloudy, slight local rain or drizzle; mild.
13A W. Scotland ... 13B N.W. Scotland ▼ 14 Mid Scotland 15 N.E. Scotland ▼	Mainly strong west or southwest winds; cloudy with rain at times: mild.
16 Orkneys and Shetlands ▼	As 13A - 15
17 N.W. Ireland 18 N.E. Ireland	Fresh or strong southwest wind. Cloudy; rain at times: mild.
19 S.E. Ireland 20 S.W. Ireland	As 4-12

GENERAL INFERENCE

An anticyclone is centred off Southwest England. A large vigorous depression east of South Greenland is moving north and associated troughs will affect northern parts of the British Isles.

FURTHER OUTLOOK

Little change.

▼ Gale warning in operation in districts 13b, 15 & 16. issued at 0430h. G.M.T. 26th December, 1943.

Forecasts issued at 1030

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

7h. Sunday 26th December. 1943.

LOW

HIGH

STATION MODEL

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

Scale 1.: 5,000,000

Mb.

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

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

Morning of

Sunday 26th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. T Thunderstorm. 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 26th December 1943 — No. 29984

OBSERVATIONS at 1 hr. G.M.T. 26th December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon	290	36·2	+2	SSW	2	Zo	46	97	45	5	5	–	–	9	9	1500
	S. Farnborough	226	36·4	+6	W'S	1	Zo	44	92	43	6	5	7	–	9	10	2500
	Boscombe Down	417	36·1	+2	W'S	3	of	47	97	47	2	5	–	–	10	10	300
	Thorney Island	10	36·3	+4	W'S	2	Zo	46	97	45	5	5	–	–	10	10	700
	Lympne	341	35·9	+2	W'S	2	Zo	42	92	40	5	5	–	–	9	9	2700
	Manston	154	34·7	–2	W'S	3	m	43	92	41	4	5	–	–	9+	9+	3300
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	10	34·6	–2	SW	2	m	41	97	41	4	–	–	–	0	0	–
	Gorleston	5	32·9	+4	WNW	3	Zo	43	85	40	6	5	–	–	4-6	4-6	1500
	Mildenhall	15	34·3	+2	WSW	3	Zo	43	85	40	6	5	–	–	4-6	4-6	3400
	Cranwell	203	32·4	+1·4	W	3	Zo	44	97	44	5	–	4	–	0	2-3	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	35·6	+2	–	0	bc f+	43	97	42	3	5	–	–	4-6	4-6	3300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	36·3	+2	WSW	3	dr	49	97	49	3	–	–	–	10	10	<150
	Bristol	209	36·1	+2	W	2	Zo	47	97	47	5	5	–	–	7-8	7-8	500.
	Portland Bill	32	37·2	–6	S'W	3	o	49	85	45	7	5	–	–	10	10	4500
	Plymouth	86	38·9	+1·0	W	2	d.d.	49	97	49	5	5	–	–	10	10	400
	The Lizard	240	37·9	0	WNW	3	d.d.	50	97	50	5	5	–	–	10	10	800
	Scilly (St. Mary's)	163	38·3	–2	W N	4	c	50	97	50	7	5	–	–	10	10	1200
	Guernsey	175															
6	Pembroke	142	36·7	0	WNW	4	c	50	97	50	7	5	–	–	10	10	1500
7	Holyhead (Valley)	32	34·3	+6	–	0	Zo	46	97	45	6	5	–	–	4-6	4-6	2500
	Chester (Sealand)	16	34·5	+1·6	–	0	Zo	44	85	41	5	5	–	–	10	10	1700
8	Manchester	230	34·4	+1·8	W'N	2	Zo	47	97	46	6	5	–	–	4-6	9+	500
10	Spurn Head	29	32·7	+1·6	WSW	3	Zo	40	92	38	5	7	–	–	9	9	1500
	Catterick (Sc.)	192	33·1	+1·8	SSW	2	c-bc	42	92	40	7	–	7	–	7-8	7-8	–
	Tynemouth	108	31·7	+4	WNW	4	Zo	45	75	39	6	5	–	–	7-8	7-8	2500
11	St. Abbs Head	280	29·2	+8	W	4	bc	44	85	39	7	4	–	–	4-6	4-6	2500
	Leuchars	31	29·5	+6	WSW	3	Zo	40	85	37	5	5	2	–	7-8	10	3000
12	Renfrew (Abbotsl.)	19	30·7	+2	WSW	2	Zo	43	92	41	6	–	–	2	0	2-3	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	32·8	+4	W'S	2	b	40	97	40	8	–	–	–	0	0	–
13A	Tiree	44	28·4	–2	SW'S	4	bc	47	85	43	8	5	–	–	4-6	4-6	2000
13B	Stornoway	12	23·7	–2	SSW	3	c	45	75	38	7	5	–	–	4-6	9	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	28·4	+1·8	WNW	3	c	38	75	31	8	5	7	–	9	10	6200
	Wick	114	24·8	+8	WSW	4	c	41	92	39	7	5	–	–	10	10	3000
16	Sumburgh	15	20·6	+1·4	WSW	7	bc	45	85	40	8	3	–	–	4-6	4-6	1800
17	Blacksod Point	18	30·7	–6	SSW	4	d.d.	51	97	50	7	6	2	–	4-6	10	1500
18	Malin Head	84	29·3	–1·0	SSW	3	bc	44	85	40	8	5	–	–	4-6	4-6	1500
	Aldergrove	294	32·7	+2	SSW	2	c	43	92	41	7	5	–	–	10	10	1400
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	35·8	+2	SW'S	4	d.d.	52	97	51	6	5	–	–	10	10	500
	Roches Point	22	36·1	+2	W'S	2	0	51	97	50	8	5	–	–	10	10	800

OBSERVATIONS at 7 hr. G.M.T. 26th December

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	37·0	+1·0	WNW	1	m	44	97	43	4	5	–	–	10	10	2100	1	*
Croydon	37·4	+0·8	WSW	1	dr	44	97	44	2	–	–	–	10	10	2100	1	*
S. Farnborough	37·1	+2	W'S	1	of–	45	97	45	2	5	–	–	10	10	300	1	*
Boscombe Down	36·8	–2	NW	1	F	45	97	45	1	5	–	–	10	10	<150	0	*
Thorney Island	36·8	+1·4	WNW	1	Zo	48	97	47	6	5	–	–	10	10	1200	1	*
Lympne	36·9	+1·2	NNW	2	Zo	42	97	42	5	5	–	–	9	9	3000	1	*
Manston	35·8	+0·8	NNW	2	m	43	97	43	4	5	3	–	4-6	9+	4000	1	*
Shoeburyness	36·2	+1·0	SW	1	of	43	92	42	2	5	–	–	10	10	1500	1	*
Felixstowe	36·0	+0·6	W	1	m	42	97	41	4	5	–	–	Tr	Tr	1000	1	1
Gorleston	34·1	+1·2	WNW	2	m	40	97	39	4	5	–	–	4-6	4-6	2500	1	2
Mildenhall	35·8	+1·0	WSW	3	F	40	92	39	1	–	–	–	0	0	–	1	*
Cranwell	33·7	0	W	2	m	42	97	42	4	–	7	–	0	Tr	–	0	*
Birmingham	35·9	+0·2	WSW	3	Zo	45	92	43	6	5	–	–	1	1	4000	1	*
Upper Heyford	36·6	+0·2	S	1	F	38	97	38	1	–	–	–	10	10	<150	1	*
Ross-on-Wye	35·9	0	S W'W	2	b	45	97	44	6	5	–	–	Tr	Tr	3000	1	*
Hartland Point	37·2	+0·2	NNW	3	0	49	97	49	5	5	–	–	10	10	450	1	3
Bristol	37·2	–0·4	W'S	2	Zo	45	97	45	6	5	–	–	9+	9+	2200	1	*
Portland Bill	37·2	+0·4	SW	3	o	49	92	47	7	5	–	–	10	10	4500	1	4
Plymouth	38·7	+0·6	W	1	m d	48	97	48	4	5	–	–	9+	9+	400	1	1
The Lizard	37·8	–0·4	WNW	3	m	49	97	49	4	5	–	–	10	10	1000	1	3
Scilly (St. Mary's)	38·4	0	NNW	3	id.	50	97	49	6	5	–	–	10	10	900	1	4
Guernsey																	
Pembroke	36·6	+2·0			iD	50	97	50	5	5	–	–	10	10	1500	1	2
Holyhead (Valley)	35·1	+0·2	SSW	2	Zo	49	97	49	6	5	–	–		10	400	1	2
Chester (Sealand)	34·6	+0·2	–	0	m	45	97	44	4	5	3	–	2-3	4-6	2000	0	*
Manchester	34·8	0	S'W	3	Zo	45	97	44	6	5	–	–	10	10	1700	1	*
Spurn Head	33·8	+0·4	WNW	3	Zo	42	85	37	5	7	–	–	2-3	2-3	2500	1	1
Catterick (Sc.)	33·4	+0·2	SE	1	b-bc	40	97	39	7	–	–	4	2-3	2-3	–	0	*
Tynemouth	32·1	+0·6	W	2	Zo	41	85	36	6	2	–	–	4-6	4-6	2500	0	2
St. Abbs Head	28·9	–0·6	SW	4	c	42	85	38	7	5	–	–	9+	9+	2500	0	4
Leuchars	27·7	–1·8	WSW	3	Zo	42	85	39	5	5	–	–	2-3	2-3	3000	1	*
Renfrew (Abbotsl.)	29·7	–1·2	SW	3	id.	48	97	47	5	4	7	–	9+	10	1000	1	*
Eskdalemuir	31·9	–0·2	S'E	2	r d.	39	97	39	4	5	–	–	10	10	2000	1	*
Point of Ayre	32·1	–0·8	W'N	4	c	51	92	49	8	5	–	–	10	10	2400	0	*
Tiree	26·7	–0·8	SW'W	5	d.d.	50	97	50	6	5	–	–	10	10	800	1	3
Stornoway	19·8	–2·2	SSW	5	d.d.	49	97	48	6	5	–	–	10	10	1000	1	5
Dalwhinnie	25·0	–0·6	SW	4	b-bc	41	92	38	7	5	–	–	2-3	2-3	2000	2	*
Aberdeen †	26·0	–2·4	S	2	b-bc	42	75	36	7	5	–	–	2-3	2-3	2500	1	2
Wick	22·5	–2·2	SW	4	c	45	97	45	8	5	7	–	9+	10	2700	1	*
Sumburgh	20·3	–0·8	SW	7	r d.	46	92	44	7	2	7	–	4-6	9+	2000	1	5
Blacksod Point	31·1	0	SSW	5	b-c d	51	97	50	7	6	–	–	4-6	4-6	1500	1	4
Malin Head	28·4	+0·2	W'S	5	c	51	92	49	8	5	–	–	10	10	1500	2	3
Aldergrove	31·7	–0·2	SW'S	4	Zo	49	97	48	6	5	–	–	10	10	500	1	*
Birr Castle	34·2	+0·6	SSW	1	C	51	97	50	7	5	*	–	10	10	1500	1	*
Valentia Obsy.	36·4	+0·6	S'W	4	b-bc	52	92	50	7	5	–	–	10	10	2000	*	*
Roches Point	36·8	+0·6	W'S	2	l d.	51	97	51	7	5	–	–	9	9	800	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 25th Hrs. (38)
London (Kew)	45	43	37	–	–	0·0
Croydon	47	44	41	–	Tr	0·0
S. Farnborough	46	42	31	–	Tr	0·0
Boscombe Down	46	44	43	–	Tr	0·0
Thorney Island	46	43	42	Tr	Tr	*
Lympne	41	41	31	–	–	0·0
Manston	45	41	39	–	–	0·0
Shoeburyness	45	41	32	–	–	0·0
Felixstowe	43	40	36	0·1	Tr	0·0
Gorleston	44	40	35	–	–	0·0
Mildenhall	45	38	29	–	–	0·0
Cranwell	48	40	36	–	–	0·0
Birmingham	48	43	38	–	–	0·0
Upper Heyford	45	36	30	–	–	*
Ross-on-Wye	49	44	39	–	–	0·2
Hartland Point	49	48	38	0·1	1	0·0
Bristol	49	45	39	–	Tr	0·0
Portland Bill	45	46	*	–	–	*
Plymouth	50	47	42	Tr	0·2	0·0
The Lizard	50	48	*	0·5	0·5	0·0
Scilly (St. Mary's)	51	49	*	–	0·3	0·1
Guernsey						
Pembroke	52	47	*	Tr	1	0·0
Holyhead (Valley)	50	44	36	Tr	–	*
Chester (Sealand)	52	42	33	–	–	0·0
Manchester	47	43	31	Tr	–	*
Spurn Head	44	40	*	–	–	0·0
Catterick (Sc.)	50	39	30	–	–	0·0
Tynemouth	52	40	36	–	–	*
St. Abbs Head	52	39	*	Tr	–	*
Leuchars	52	37	27	Tr	–	0·0
Renfrew (Abbotsl.)	53	42	28	0·4	Tr	0·0
Eskdalemuir	49	35	30	2	0·1	0·0
Point of Ayre	50	39	*	1	–	0·0
Tiree	52	44	41	0·3	1	0·0
Stornoway	54	41	36	Tr	0·1	0·0
Dalwhinnie	50			0·2		
Aberdeen †	51	39	31	–	–	0·0
Wick	52	38	34	Tr	–	*
Sumburgh	50	47	37	2	2	
Blacksod Point	52	46	*	0·2	0·1	*
Malin Head	51	47		1	0·2	0·0
Aldergrove	50	38	30	–	0·2	0·0
Birr Castle	51	50	48	0·3	0·5	0·0
Valentia Obsy.	52	51	50	2	1	0·0
Roches Point	52	51	*	Tr	0·4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 25th December. 18h. G.M.T. 01h. G.M.T. 26th December. 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 87	25644	57887	8–	01744	58614	8–	02756	55526	5–	62658	51568			
115			82	82734	87787	27	02844	65686	526	61745	87768			
203														
206 80	02851	55826	5–	01755	55415	5–	02868	22418	5–	01854	20624			
210 57	02864	23626	5–	01864	24524	5–	02865	20326	5–	02866	14126			
219 86	02855	57855	50	01863	57613									
230 5–	05754	55456	53	02753	57824	5–	02857	20227	5–	52624	53358			
245 57	05644	55427	54	01861	22123	07	02790	00017	50	05664	24114			
260 57	02								5–	08				
277 57	02644	53428	5	08644	28424				5–	05528	000 28			
279 62	21543	20668	5–	05544	20564	50	02753	18113	52	52625	22458			
285									52	02				
288 57	02856	19428	57	02753	22326	55	05631	17117	04	01792	16112			
575 52	51635	61428	50	05662	28252	52	05626	16128	52	21636	18358			
301 57	05666	20428	50	05674	24424	00	05690	24200	5–	25558	23388			
321 51	05664	20227	57	08463	00028	50	05562	24222	00	05590	16200			
339			5–	05		00	05							
392			5–	05644	22358				50	**				
310														
614 57	45		52	05		5–	05		04	05				

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 5–	02748	22428	52	05656	20428	00	05680	20300	5–	05668	20328
334											
340 57	02655	20428	5–	02868	22328	50	05562	22112	57	08463	00024
136 5–	05568	20228	5–	21688	20358	5–	05565	23325	00	47190	24340
336											
350 5–	05665	20227	5–	05568	20328	50	05564	22225	--	48109	20249
368 52	02664	24228	5–	05658	24328	5–	47318	26258	53	41424	24156
379 57	05654	25328	57	08455	20227	50	08453	20183	04	05592	20342
390 5–	43256	20246	--	48209	22249	5–	45368	22248	--	48209	24249
382 5–	05554	22128				5–	08428	00028	--	46109	00049
438 5–	05568	20218				5–	08		--	48	
430			**	47358	20128	5–	05		5–	05527	32228
409 5–	02758	24328	5–	52428	26428	5–	52308	23258			

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.

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 December
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	cffW	cfwem	cmw	*
Croydon	cmcz	czo	cmfid.	Kew 24 hours ended 7h. Max Time * Min. Time 5·7h 26th
Greenwich	eff	cfm	cmoff	
Camden Square	o	c	*	
Kensington	cfbc	bccm	*	
Hampstead	om	of	of	

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	45	43	37	–	–	0·0	*	*
Croydon	47	44	41	–	Tr	0·0	*	*
Greenwich	46	44	36	–	–	0·0	82	98
Westminster	46	42	37		Tr		84	97
Regents Park								
Camden Square	46	41	38	–	–	*	*	97
Kensington	46	44	38	–	Tr		84	97
Hampstead	44	41	38	–	–		*	97

SECRET

Page 1

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

Monday 27th December 1943 — No. 29385

OBSERVATIONS at 13h. G.M.T. 26th December

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)	37·3	-4	SSW	2	z_0	46	92	45	5	5	–	–	9+	9+	2500
	Croydon ...	37·2	-6	SW	2	m	47	85	41	4	5	–	–	10	10	800
	S. Farnborough	37·6	-4	SW'S	2	z_0	46	97	46	5	5	–	–	10	10	1000
	Boscombe Down	37·5	-10	NW'W	3	c	48	97	48	7	5	–	–	10	10	1200
	Thorney Island	37·8	-4	–	0	o/f+	47	97	46	3	5	–	–	10	10	200
	Lympne ...	37·4	-10	SW	3	F	43	97	43	1	–	–	–	10	10	<150
	Manston ...	37·0	-6	W'N	3	F	44	97	44	1	–	–	–	10	10	<150
2	Shoeburyness ...	36·6	-10	WSW	1	of	45	97	44	2	5	–	–	10	10	1500
	Felixstowe ...	36·6	-6	W	2	F+	41	97	41	1	–	–	–	10	10	<150
	Gorleston ...	35·0	-6	W'N	2	z_0	44	92	42	5	5	–	–	4-6	4-6	2000
	Mildenhall ...	36·3	-8	SW	1	m/f	45	97	44	4	5	–	–	4-6	4-6	4000
	Cranwell ...	34·7	-10	W	3	z_0	49	85	45	6	–	7	–	0	10	–
	Birmingham ...	36·0	-4	WSW	2	z_0	50	85	46	6	–	4	6	0	9	–
	Upper Heyford	36·8	-8	W	3	c	49	92	47	7	5	3	2	2-3	9+	900
4	Ross-on-Wye	36·3	-10	W	1	c-bc	52	85	48	8	5	–	8	Tr	7-8	2500
5	Hartland Point	37·6	-4	WSW	3	o/f+	49	97	49	3	–	–	–	10	10	<150
	Bristol ...	37·4	-10	WNW	2	z_0	50	92	48	6	5	–	–	4-6	9	500
	Portland Bill ...	38·5	-6	NW	2	o/f	49	92	47	7	5	–	–	10	10	2500
	Plymouth ...	38·9	-6	E	3	z_0	50	97	50	6	5	–	–	7-8	10	1000
	The Lizard ...	39·0	0	WNW	3	d_0d_0	50	97	50	5	5	–	–	10	10	800
	Scilly (St. Mary's)	39·2	-4	NW'N	2	+–	52	97	52	3	5	–	–	10	10	220
	Guernsey ...															
6	Pembroke ...	38·0	+2	WNW	2	F+	50	97	50	1	–	–	–	10	10	<150
7	Holyhead (Valley)	35·6	-4	SW'S	2	c	50	97	49	7	5	–	–	9+	9+	600
	Chester (Sealand)	35·2	-2	–	0	c	55	75	49	8	5	7	–	7-8	10	2500
8	Manchester ...	35·1	-6	S'W	3	c/d	49	97	48	5	5	2	–	4-6	10	2000
10	Spurn Head ...	34·3	+2	S	3	z_0	43	92	41	6	7	3	2	4-6	9+	1500
	Catterick (Sc.)...	32·7	-8	W	2	bc	53	85	49	8	5	3	8	2-3	4-6	2500
	Tynemouth ...	31·0	-10	WSW	5	z_0	54	75	48	6	2	3	1	2-3	4-6	1800
11	St. Abbs Head	28·3	0	SW	4	c-bc	51	97	50	8	3	6	9	4-6	7-8	2000
	Leuchars ...	27·1	-10	WSW	4	z_0	52	85	48	6	5	–	9	7-8	9+	2000
12	Renfrew (Abbotsl.)	30·4	0	WSW	2	c/d	51	92	49	6	5	–	–	7-8	9+	600
	Eskdalemuir	30·9	-12	WSW	4	d_0d_0	48	97	48	5	–	2	–	10	10	200
	Point of Ayre...	33·2	-4	WNW	4	c	52	92	50	8	5	–	–	10	10	1500
13A	Tiree	27·5	+4	SW	5	o/d	51	92	49	6	5	–	–	10	10	400
13B	Stornoway ...	20·2	-2	SW	7	id_0	52	85	48	7	5	–	–	9+	10	800
15	Dalwhinnie ...	26·5	0	SW	4	c	48	85	44	7	5	4	1	2-3	9	2500
	Aberdeen ...	24·7	-6	S	1	c	47	85	43	3	5	4	6	2-3	9+	2500
	Wick ...	20·6	-6	SW	6	bc	55	92	53	9	3	3	6	2-3	4-6	2500
16	Sumburgh ...	16·3	-10	SW'W	7	d_0d_0	50	97	50	7	5	2	–	9+	10	600
17	Blacksod Point	31·8	0	SSW	6	c	51	85	47	7	5	–	–	10	10	2500
18	Malin Head ...	29·7	-10	W'S	4	c-bc	52	75	45	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	32·8	+4	SW'S	3	c	50	97	49	7	5	–	–	2-3	10	600
19	Birr Castle ...	35·0	-2	SW	1	c	53	85	49	8	5	1	–	7-8	9+	2500
20	Valentia Obsy.	36·8	-2	SSW	4	c	56	85	46	8	5	–	–	10	10	2500
	Roches Point	37·7	0	SW'W	2	c	52	97	51	8	5	–	–	9	9	1500

OBSERVATIONS at 18h. G.M.T. 26th December

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)	37·7	+6	W'S	2	z_0	47	97	46	5	5	–	–	10	10	2400	1	*
	Croydon ...	37·7	+10	SW	2	o/f+	47	97	47	2	5	–	–	10	10	500	1	*
	S. Farnborough	37·6	+6	WSW	2	d_0d_0	47	97	46	4	5	–	–	10	10	600	1	*
	Boscombe Down	37·4	+6	NW'W	2	z_0	48	97	47	6	5	–	–	10	10	600	1	*
	Thorney Island	37·7	+4	W	2	d/f	48	97	47	3	5	–	–	10	10	600	1	*
	Lympne ...	37·7	+4	WNW	2	F+	43	97	43	0	–	–	–	10	10	<150	1	2
	Manston ...	37·2	+6	WSW	1	F	40	97	40	1	–	–	–	10	10	<150	1	*
2	Shoeburyness ...	36·7	+2	W	1	of	46	97	45	2	5	–	–	10	10	800	1	*
	Felixstowe ...	36·2	+2	W'S	3	F	44	97	44	1	–	–	–	10	10	<150	1	1
	Gorleston ...	34·6	+2	W	1	F+	44	97	43	1	–	–	–	10	10	<150	0	2
	Mildenhall ...	35·9	+2	SW	3	m	45	97	44	4	–	–	–	0	0	–	1	*
	Cranwell ...	35·1	+4	W	2	m	46	97	45	4	–	–	–	0	0	–	0	*
	Birmingham ...	36·2	+4	WSW	2	z_0	49	92	47	6	5	–	–	10	10	2500	1	*
	Upper Heyford	36·8	+8	WSW	2	f+	45	97	45	2	–	–	–	10	10	<150	1	*
4	Ross-on-Wye	37·0	+10	NNE	1	if	46	92	43	3	5	–	–	1	1	2000	1	*
5	Hartland Point	38·0	+6	NW'W	3	c	50	97	50	6	5	–	–	9+	9+	450	1	3
	Bristol ...	37·5	+4	W'S	1	z_0	47	97	47	6	5	–	–	2-3	2-3	1000	1	*
	Portland Bill ...	38·3	+6	NW	2	o	48	92	46	7	5	–	–	10	10	2500	1	3
	Plymouth ...	38·5	+4	–	0	id_0	50	97	50	4	5	–	–	7-8	9+	800	1	1
	The Lizard ...	38·5	+4	–	0	c/f	49	97	49	6	5	–	–	9+	9+	1000	1	3
	Scilly (St. Mary's)	38·9	+4	N	2	c	51	97	50	7	5	–	–	9+	9+	800	1	3
6	Pembroke ...	37·2	+2	WNW	4	c	50	97	49	7	5	–	–	9+	9+	1500	1	3
7	Holyhead (Valley)	35·7	+2	S'W	3	c	49	97	49	7	5	–	–	10	10	600	1	1
	Chester (Sealand)	35·8	+8	–	0	z_0	51	85	47	6	5	2	–	7-8	10	1500	1	*
8	Manchester ...	35·7	+4	SW	2	d_0d_0	50	97	50	4	5	2	–	4-6	10	1500	1	*
10	Spurn Head ...	34·2	+6	W	4	z_0	48	92	46	5	7	3	–	7-8	9+	1500	1	1
	Catterick (Sc.)...	33·5	+6	W	3	o-bc	50	85	47	7	5	–	–	2-3	2-3	2000	0	*
	Tynemouth ...	31·8	+6	W	3	z_0	51	85	47	6	–	4	–	0	2-3	–	1	3
11	St. Abbs Head	28·2	0	SW	4	c	52	85	48	7	5	–	–	10	10	2500	0	2
	Leuchars ...	27·7	+6	WSW	5	z_0	52	85	47	6	5	1	–	4-6	4-6	2000	1	*
12	Renfrew (Abbotsl.)	30·7	+2	SW	3	c-bc	52	65	43	7	8	–	–	7-8	7-8	1400	1	*
	Eskdalemuir	31·7	+6	SW'S	4	d_0d_0	48	95	46	5	6	2	–	7-8	10	500	1	*
	Point of Ayre...	34·7	+16	W'N	4	c	50	92	47	8	5	–	–	10	10	1800	1	2
13A	Tiree	27·0	-6	SW	5	z_0	50	85	47	6	5	–	–	4-6	4-6	1500	1	4
13B	Stornoway ...	19·4	+8	SSW	7	c	52	75	44	7	5	–	–	9	9	1600	1	5
15	Dalwhinnie ...	26·0	0	SW	4	c	47	75	40	7	5	–	–	10	10	2000	0	*
	Aberdeen ...	24·9	0	SSW	3	c-bc	52	75	43	7	5	–	–	7-8	7-8	2500	1	2
	Wick ...	20·9	-2	SW	4	o	51	85	48	8	5	7	2	7-8	9	2500	1	*
16	Sumburgh ...	16·2	+2	SW'W	8	cq	51	85	48	6	5	–	–	9+	9+	800	1	5
17	Blacksod Point	31·8	+2	SSW	6	o/d	52	75	44	7	6	–	–	10	10	1500	1	5
18	Malin Head ...	29·4	-2	SW	6	c-bc	50	85	46	8	8	–	–	7-8	7-8	1500	2	5
	Aldergrove ...	33·0	+2	SW'S	3	c	48	85	44	7	5	–	–	10	10	3000	1	*
19	Birr Castle ...	35·1	+2	SSW	2	c	49	85	45	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	36·6	+2	SW'S	4	c	48	85	44	8	5	–	–	10	10	2300	1	3
	Roches Point	37·7	+2	WSW	2	c	50	92	48	8	5	–	–	9	9	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 26th (39)	Weather. 13h.–18h. 26th (40)	Weather. 18h. 26th to 1h. 27th (41)	Weather. 1h.–7h. 27th (42)
1	London (Kew)	$o_m f c m_o$	$c m_o$	$o i d_o o m$	$o m c d o m$
	Croydon ...	$d f e o m e$	$a m e c m o f$	$o d d_o d f$	$o d d_o d f$
	S. Farnborough	$o f c o f e m c f m_o$	$c m_o c m i d_o d_o$	$c m d o m_o w c m w f d i d_o$	
	Boscombe Down	$o f i d_o c m c$	$o m_o$	$c m_o o f o f c m_o c m_o$	
	Thorney Island	$c m_o c_o$	OFFid_o	$o f i d_o o f i d_o c f i d_o c m$	
	Lympne ...	$c m_o o f o F$	oF	$o i c_o i d f$	
	Manston ...	$c m o f$	oF	$O f e i d_o$	$O f e f$
2	Shoeburyness ...	$c f o f$	of	of	$c i r_o m$
	Felixstowe ...	$b m_o F$	OF	$o f e$	OF $c f e$
	Gorleston ...	$d f e c b c m$	off	$o f e f e m$	$c z_o W$
	Mildenhall ...	$o f e$	$b c m c m b c m$	$b m_o o f$	$c f c i d_o f c f$
	Cranwell ...	$c m_o$	$b c o b c m$	$c f c m c m_o$	$c m$
	Birmingham ...	$b c c z$	$c z$	$c b c c$	c
	Upper Heyford	$o f b c m e$	$c c m_o o f$	$o f b f c f$	$c f f_i m_o d o m_o$
4	Ross-on-Wye	$b c i F F b c$	$b c b b c$	$i f b c m_o c$	c
5	Hartland Point	$o d f d f$	$d f d f c$	$c o c b c$	$b c c i d_o$
	Bristol ...	$c m_o b c F c m_o$	$c m_o$	$c m_o F W_i m c m o l d i c$	
	Portland Bill ...	$o f o$	o	O	O
	Plymouth ...	$c m_o$	$c m_o c m i d_o$	$c m i d o c m_o$	$c m o i d_o$
	The Lizard ...	$o f f d d$	$o d f c m$	$c m o W$	$c m o c$
	Scilly (St. Mary's)	$c i d_o o$	$o i f c$	$c b c W$	$b c$
	Guernsey ...				
6	Pembroke ...	$o F f$	c	$c d d o$	$c d d o d o b c$
7	Holyhead (Valley)	$c i d_o c m_o$	c	c	$c b c$
	Chester (Sealand)	$b c m_o c$	$i d_o d_o d_o c$	$c m_o$	$c m o z_o$
8	Manchester ...	$c m_o i d_o$	$c m_o d_o d_o$	$d o d m c f$	$i d f c m$
10	Spurn Head ...	$c m_o$	$c m_o$	$c m_o$	$b c$
	Catterick (Sc.)...	$b c c b c$	$c b c$	$b c$	$b c$
	Tynemouth ...	$b c m_o$	$b c q m_o$	$b c m_o$	$b c$
11	St. Abbs Head	$c b c c$	c	$c b c$	$b c$
	Leuchars ...	$b c c c m_o$	$o m_o b c m_o$	$b c m o c m_o$	$c m_o$
12	Renfrew (Abbotsl.)	$c r_o c b c$	$c b c$	$b c c m_o$	$c c i d o r m_o$
	Eskdalemuir	$r_o f d_o$	$d_o c d_o$	$c b c$	$d_o c$
	Point of Ayre...	c	c	c	$c b c$
13A	Tiree	$d_o d_o m_o i d_o m_o$	$b c m_o m_o b c m_o$	$b c c m_o$	$c d_o d_o d_o m_o$
13B	Stornoway ...	$c d_o d_o i d_o m_o$	$c i d_o c b c c$	$c i d_o o d_o d_o m_o d d$	$c i r_o c$
15	Dalwhinnie ...	$b c p r_o c$	C	*	$c i r_o$ ID
	Aberdeen ...	$b c c A z c f$	$c f b c c$	c	c
	Wick ...	$c b c c$	$c b c c b c c$	$c b c$	$b c i d_o$
16	Sumburgh ...	$r r d_o c$	$c i d r m_o$	$d o q c$	$c i d_o c$
17	Blacksod Point	$b c$	d	c	$b c$
18	Malin Head ...	d	c	$b c$	d
	Aldergrove ...	$c m_o c$	c	c	$c b c b$
19	Birr Castle ...	c	c	*	c
20	Valentia Obsy.	c	d	d	d
	Roches Point	d	c	c	c

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

Districts	
1 S.E. England 2 E. England ...	Light variable or westerly wind; dull with much mist and fog, local drizzle: mild.
3 E. Midlands ...	Light west wind; mainly cloudy, chance of some fog developing tonight: mild.
4 W. Midlands	
5 S.W. England	Light variable winds; mainly cloudy, local drizzle: much hill fog: mild.
6 South Wales	
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light or moderate west winds; mainly cloudy; light local rain: mild.
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 or strong westerly winds, moderating temporarily, backing southwest and freshening again later with gale locally. Cloudy with local rain at first, brighter conditions spreading southwards but with some local showers; dull rainy conditions spreading northwards again later: rather cold.
16 Orkneys and Shetlands ↓	
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light or moderate southwest winds; dull with local drizzle: mild.

GENERAL INFERENCE

An anticyclone is centred over Southwest England and pressure is low to the north of the British Isles. A trough of low pressure is moving southwards over Scotland, but will later return northwards. Weather will be mainly mild and dull over the British Isles with local rain or drizzle and with much fog in the Southeast. Brighter colder conditions will spread southwards over Scotland but the improvement will only be temporary.

FURTHER OUTLOOK

Little change.

↓ Gale warning in operation in districts 11, 12, 13A, 13B, 15 & 16. Time of issue 2230h on 26.12.43.

Forecasts issued at 1030

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

7h. Monday 27th December 1943.

LOW

HIGH

1008 1010 1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032 1034 1036 1038

10° 5°W. 0° 5°E. 10°

60° 55° 50°

STATION MODEL

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

Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Monday 27th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground

= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

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

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

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

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

Monday 27th December, 1943 — No. 29985

OBSERVATIONS at 1 hr. G.M.T. 27th December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon ...	290	38·5	+2	SW	2	of-	48	97	47	3	5	-	-	10	10	600
	S. Farnborough	226	38·8	+4	WSW	2	m	47	97	46	4	5	-	-	10	10	400
	Boscombe Down	417	38·6	+6	WNW	2	zo	47	97	47	6	5	-	-	10	10	1100
	Thorney Island	10	38·7	0	W	1	df	47	97	47	3	5	-	-	10	10	500
	Lympne ...	341	39·5	+2	WSW	1	dF	44	97	44	1	-	-	-	10	10	<150
	Manston ...	154	38·1	+2	W	2	f-	44	97	44	2	-	-	-	10	10	<150
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	37·0	0	W	2	of-	44	97	44	3	5	-	-	10	10	2500
	Gorleston ...	5	35·9	+2	W	2	zo	45	92	43	5	5	-	-	10	10	1500
	Mildenhall ...	15	37·0	-2	SW	3	of-	45	97	45	5	-	-	-	10	10	<150
	Cranwell ...	203	35·5	-2	WS	3	zo	49	92	47	5	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	37·5	-4	S	1	oF	43	97	43	1	5	-	-	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	39·0	0	NNW	2	bbc	46	97	46	8	5	-	-	2-3	2-3	2500
	Bristol ...	209	38·5	+2	WS	2	zo	47	97	46	5	5	-	-	10	10	1300
	Portland Bill ...	32	38·9	+4	NW	2	o	49	92	47	7	5	-	-	10	10	2500
	Plymouth ...	86	39·7	0	W	1	zo	48	97	48	6	5	-	-	7-8	9+	1600
	The Lizard ...	240	39·6	+6	NNW	2	zo	48	97	48	6	5	-	-	9+	9+	1500
	Scilly (St. Mary's)	163	39·9	+2	N	2	bc	47	97	47	8	5	4	-	2-3	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	38·8	+2	WN	4	d.d.	48	92	47	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	36·7	+4	WSW	2	c	49	92	47	7	5	-	-	9	9	2500
	Chester (Sealand)	16	36·2	-2	WNW	1	zo	50	85	45	5	5	7	-	9+	10	1900
8	Manchester ...	230	36·1	-4	SW	2	df	47	97	47	3	6	2	-	4-6	10	900
10	Spurn Head ...	29	34·6	+4	SW	3	zo	48	85	45	6	7	2	-	7-8	9	1500
	Catterick (Sc.) ...	192	32·8	-6	WSW	6	bc	48	85	43	7	5	-	-	4-6	4-6	2500
	Tynemouth ...	108	32·2	+6	W	3	bc	50	78	41	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	27·6	-14	W	5	bbc	49	75	42	7	4	-	-	2-3	2-3	2500
	Leuchars ...	31	28·2	-2	WSW	5	zo	49	75	43	6	5	1	-	4-6	10	3000
12	Renfrew (Abbotsl.)	19	31·8	+8	SSW	4	zo	50	75	43	6	5	-	-	10	10	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	34·4	+2	S	4	c	49	85	45	8	5	7	-	7-8	9+	2500
13A	Tiree	44	27·0	+2	SW'S	6	c	50	85	47	7	5	-	-	10	10	1500
13B	Stornoway ...	12	18·8	+8	SW	8	d.d.	52	85	47	6	5	-	-	10	10	1400
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	25·2	+12	W'S	4	c	51	65	40	8	-	7	-	0	10	-
	Wick ...	114	20·2	-2	WSW	6	bc	51	85	47	8	5	1	-	4-6	4-6	3000
16	Sumburgh ..	15	15·7	+2	SW	8	ido	50	97	49	7	5	-	-	10	10	1400
17	Blacksod Point	18	32·3	+4	SWS	6	c	51	85	47	7	5	-	-	10	10	1500
18	Malin Head ...	84	29·2	+4	WSW	7	c-bc	50	75	43	8	5	3	-	4-6	7-8	1500
	Aldergrove ...	294	35·6	+2	SW	3	c	47	85	42	7	5	-	-	10	10	4100
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	37·5	+2	SW'S	4	c	49	75	42	8	5	-	-	10	10	2500
	Roches Point	22	38·3	+2	WSW	2	o	49	92	47	8	5	-	-	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 27th December

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)	38·4	+2	WNW	2	id.	47	97	46	4	5	2	-	9+	10	2500	1	*
	Croydon ...	38·5	0	WSW	1	of+	47	97	47	3	5	-	-	10	10	1000	1	*
	S. Farnborough	38·6	-2	WNW	1	df	47	97	46	3	5	-	-	10	10	900	1	*
	Boscombe Down	38·8	+2	NW	3	zo	46	92	44	6	5	-	-	10	10	900	1	*
	Thorney Island	38·7	+2	WNW	1	m	47	97	47	4	5	-	-	10	10	1500	1	*
	Lympne ...	38·4	-2	NNE	2	f-	44	97	44	2	-	-	-	10	10	<150	1	2
	Manston ...	37·8	-2	NW	2	F	46	97	46	1	-	-	-	10	10	<150	1	*
2	Shoeburyness ...	37·2	0	W	1	irg	47	92	46	4	-	-	-	10	10	1500	1	*
	Felixstowe ...	36·8	0	WSW	3	of-	45	97	45	3	5	-	-	10	10	2000	1	2
	Gorleston ...	35·9	0	W	2	zo	46	92	44	5	5	-	-	10	10	1000	1	2
	Mildenhall ...	37·0	-2	WS	3	c/f	46	97	46	5	5	-	-	4-6	10	300	1	*
	Cranwell ...	36·2	+4	WS	4	m	46	92	44	4	5	-	-	9	9	2000	0	*
3	Birmingham ...	27·7	+4	WNW	3	c	46	85	41	7	5	-	-	10	10	1500	1	*
	Upper Heyford	38·1	+2	WSW	2	o/d	45	92	43	5	5	-	-	10	10	1700	1	*
4	Ross-on-Wye	38·2	0	S	1	c	45	92	43	7	5	-	-	10	10	2500	1	*
5	Hartland Point	39·0	0	NNW	2	c/d	46	97	46	8	5	-	-	9+	9+	1500	1	3
	Bristol ...	38·9	+2	W	2	o/d	46	97	45	6	5	-	-	10	10	1600	1	*
	Portland Bill ...	38·7	-2	W	2	o	49	92	47	8	5	-	-	10	10	2500	1	3
	Plymouth ...	38·8	-12	N	1	c/d	46	92	45	6	5	-	-	4-6	10	1400	1	1
	The Lizard ...	39·0	0	NNE	2	c	47	75	40	7	5	-	-	9+	9+	1500	1	3
	Scilly (St. Mary's)	39·6	+2	N	1	c	47	97	46	8	8	-	-	9+	9+	1500	1	2
	Guernsey ...																	
6	Pembroke ...	39·1	0	NW	2	c-bc	47	97	46	8	6	-	-	7-8	7-8	2000	1	3
7	Holyhead (Valley)	37·6	0	WSW	2	bc	47	85	43	8	5	-	-	4-6	4-6	3000	0	2
	Chester (Sealand)	37·2	0	WNW	1	zo	48	65	39	6	5	-	-	9+	9+	1900	0	*
8	Manchester ...	37·1	+2	N	3	zo	46	85	43	5	5	-	-	10	10	2300	1	*
10	Spurn Head ...	35·5	+6	W	3	bc	46	85	42	7	7	-	-	4-6	4-6	2000	1	2
	Catterick (Sc.) ...	33·9	+2	NSW	3	bc	46	85	42	7	1	3	2	2-3	4-6	2500	1	*
	Tynemouth ...	32·3	+2	W	4	bbc	47	75	39	7	2	-	-	2-3	2-3	2500	1	3
11	St. Abbs Head	26·7	-14	W	6	bc	48	85	45	7	5	4	-	2-3	4-6	2500	0	4
	Leuchars ...	28·1	-2	SW	5	zo	49	75	43	6	5	7	-	2-3	4-6	3000	1	*
12	Renfrew (Abbotsl.)	30·6	-6	SSW	5	ido	49	85	44	6	5	-	-	9+	9+	2000	1	*
	Eskdalemuir ...	22·6	+2	SSW	5	bc	44	85	40	8	7	5	-	4-6	4-6	2100	1	*
	Point of Ayre ...	35·1	+4	WN	4	c-bc	49	85	45	8	5	-	-	7-8	7-8	2500	1	3
13A	Tiree	27·4	+2	SW	7	d.d.	49	97	48	6	5	-	-	10	10	800	1	5
13B	Stornoway ...	22·0	+28	SW	6	c-bc	49	85	45	7	6	1	-	2-3	7-8	1800	1	4
15	Dalwhinnie ...	25·8	-2	SW	4	iD	45	92	43	5	5	-	-	10	10	1500	1	*
	Aberdeen † ...	24·6	-2	WSW	1	c	49	75	41	8	5	-	-	9	9	2500	1	2
	Wick ...	21·2	+6	SW	6	d.d.	50	97	49	7	5	-	-	10	10	3900	1	*
16	Sumburgh ..	15·1	+6	SW	8	c	50	85	47	7	5	7	-	4-6	9	2000	1	5
17	Blacksod Point	32·6	+2	SW	6	bc	51	85	47	7	5	-	-	4-6	4-6	1500	1	5
18	Malin Head ...	29·9	+2	SW	5	c	50	75	42	8	5	5	-	9	9	1500	2	4
	Aldergrove ...	34·0	-2	SSW	4	bbc	47	85	42	7	5	4	1	1	2-3	4000	1	*
19	Birr Castle ...	36·1	+2	SSW	3	c	48	85	44	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	37·7	+2	SW'S	3	c	48	85	44	8	5	-	-	10	10	2500	1	4
	Roches Point	38·7	0	WSW	2	o	48	85	44	8	5	-	-	10	10	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 26th Hrs. (38)
1	London (Kew)	48	46	45	-	Tr	0·0
	Croydon ...	49	45	43	Tr	0·2	0·0
	S. Farnborough	48	46	40	Tr	Tr	0·3
	Boscombe Down	48	45	42	0·1	-	0·0
	Thorney Island	48	45	45	-	Tr	*
	Lympne ...	43	39	31	-	1	0·0
	Manston ...	45	40	40	-	-	0·0
2	Shoeburyness ...	46	43	39	Tr	Tr	0·0
	Felixstowe ...	44	43	42	0·1	Tr	0·0
	Gorleston ...	45	42	39	-	-	0·0
	Mildenhall ...	48	43	36	-	-	0·0
	Cranwell ...	50	44	*	-	-	*
3	Birmingham ...	52	46	42	-	-	*
	Upper Heyford	49	38	33	-	Tr	*
4	Ross-on-Wye	54	42	35	-	-	5·2
5	Hartland Point	50	45	43	1	0·1	0·0
	Bristol ...	51	42	34	Tr	Tr	0·0
	Portland Bill ...	49	46	*	-	-	*
	Plymouth ...	50	46	39	Tr	Tr	0·0
	The Lizard ...	51	46	*	1	Tr	0·0
	Scilly (St. Mary's)	52	45	*	0·6	0·1	0·0
	Guernsey ...						
6	Pembroke ...	50	45	*	0·5	0·5	0·0
7	Holyhead (Valley)	50	47	45	Tr	-	*
	Chester (Sealand)	55	45	43	Tr	-	0·0
8	Manchester ...	51	46	44	0·2	1	*
10	Spurn Head ...	48	45	*	-	Tr	0·0
	Catterick (Sc.) ...	53	46	37	-	-	0·1
	Tynemouth ...	55	47	38	-	-	*
11	St. Abbs Head	53	47	*	-	-	*
	Leuchars ...	50	47	44	0·6	-	1·6
12	Renfrew (Abbotsl.)	53	48	42	3	Tr	0·0
	Eskdalemuir ...	41	43	41	2	Tr	0·0
	Point of Ayre ...	52	48	*	-	-	0·0
13A	Tiree	51	49	48	0·1	Tr	0·0
13B	Stornoway ...	53	45	45	Tr	Tr	0·0
15	Dalwhinnie ...	48	43	41	Tr	1	0·0
	Aberdeen † ...	56	48	39	-	-	1·3
	Wick ...	54	47	43	-	Tr	*
16	Sumburgh ..	51	51	47	1	Tr	0·0
17	Blacksod Point	53	52	48	Tr	-	*
18	Malin Head ...	52	48	*	Tr	-	0·0
	Aldergrove ...	50	45	41	-	-	0·0
19	Birr Castle ...	53	47	46	-	-	0·1
20	Valentia Obsy.	52	47	45	Tr	Tr	0·0
	Roches Point	52	48	*	0·1	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 26th December — III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 27th December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	58	02744	21626	57	02764	54825	5-	02645	53725	52	21645	54757
115	--	67109	87769	52	02845	87728	22	02755	87728	54	02844	31868
203												
206	86	01964	18724	57	02955	20727	57	02954	53726	57	52745	18258
210	53	01953	18524	53	02864	53525	5-	01864	53524			
219										5-	21748	22558
230	5-	52624	53458	5-	05644	49468	5-	02858	53468	5-	51648	51458
245	54	02751	23315	55	01851	15124	57	02855	55527	5-	02764	57424
260	5-	05		5-	05		-	-				
277	5-	21735	32352	5-	02744	20327	5-	02858	20228	50	02863	53413
279	--			5-	51558	53558	2-	05665	55628	57	02754	55625
285	52	51625	24457							23	01	
288	04	02891	19416	57	21744	17337	04	01791	21311	00	01893	55413
575	57	01844	24326	51	02844	56573	5-	02868	20228	51	01864	19324
301	57	21655	22357	5-	05645	22228	5-	05658	23328	5-	05658	23328
321				5-	08445	24127	57	05645	20228	04	05690	22213
299				40	05		00	00		44	01	
292	50	02653	20426	5-	01854	24424	50	01752	22212	50	01763	22213
310										2-	02644	* *
614	51	05		52	08					5-	05	

13h. G.M.T. 26th December — III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 27th December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	47406	20157	52	52615	18258	5-	05655	18215	52	02745	22128
334												
340	59	02954	18325	5-	01756	22226	57	02855	22328	5-	02857	00027
136	--	44109	20149	00	43290	20240	--	48309	22149	5-	05558	22348
336												
350	07	05694	20245	04	08493	20213	5-	43248	23248	5-	05547	24247
368	5-	57228	24358	5-	57228	24358	5-	05545	24325	5-	21646	24256
379	5-	41545	22147	57	05545	24448	5-	21538	24158	5-	21654	24258
390	--	44209	18149	--	48009	20149	--	46209	22249	5-	47338	24258
382	5-	05534	00048	5-	05528	26128	--	46109	00049	5-	57238	28158
438	5-	47137	20347	5-	45					--	46009	26249
430	5-	08		5-	51		--	47		5-	05	
409	5-	57108	23258	5-	57108	27258	5-	51448	27158	50	08451	18144

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 27th December.
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 ...	omfcm.	cm.	bid, cdm	
Croydon ...	ofcome	omcf	ofddf	
Greenwich ...	OFF	ocfm	cidom	Kew 24 hours ended 7h. Max. Time
Camden Square	o	o	*	0.3 16h 26th
Kensington ...	ofbcm	cm	*	Min. Time
Hampstead ...				<0.1 3h 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	48	46	45	-	Tr	0·0	*	*
Croydon ...	49	45	43	Tr	0·2	0·0	*	*
Greenwich ...	47	47	40	-	0·3	0·0	95	94
Westminster ...	48	45	41	0·1			76	97
Regents Park ...								
Camden Square	47	45	43	-	Tr	*	*	95
Kensington ...	48	47	44	Tr	0·1		96	95
Hampstead ...							*	

SECRET

Page 1

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

BRITISH SECTION

Tuesday 28th December 1943

No 23986

OBSERVATIONS at 13h. G.M.T. 27th December

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)	38·2	−8	NW	2	Zo	48	75	40	6	5	–	–	7-8	10	2500
	Croydon ...	38·7	−6	WNW	2	m	47	85	43	4	5	–	–	4-6	10	1000
	S. Farnborough	38·4	−10	WNW	2	c	47	85	42	8	5	–	–	10	10	1000
	Boscombe Down	38·2	−10	NNW	1	c	47	85	43	7	5	–	–	10	10	2000
	Thorney Island	38·4	−10	NW'N	2	c/d	48	85	44	7	5	–	–	7-8	10	900
	Lympne ...	38·3	+8	–	0	Zo	45	97	45	6	5	–	–	10	10	800
	Manston ...	37·9	−10	NW	3	Zo	47	85	43	6	5	–	–	9+	9+	3000
2	Shoeburyness ...	37·4	−6	NW	1	Zo	48	85	43	6	5	–	–	10	10	2000
	Felixstowe ...	37·3	−2	W'S	2	Zo	47	75	41	5	5	–	–	10	10	2500
	Gorleston ...	36·1	−14	WN	2	Zo	48	83	45	6	5	–	–	9+	9+	2000
	Mildenhall ...	37·0	−14	WN	3	c-bc	50	75	44	8	5	4	2	1	7-8	4000
	Cranwell ...	36·5	−2	W	2	Zo	46	85	41	6	–	–	–	0	0	–
3	Birmingham ...	37·9	0	NW	2	C	47	75	40	7	5	–	–	10	10	1500
	Upper Heyford	38·2	−6	NNW	3	C	46	75	40	8	5	–	–	10	10	2000
4	Ross-on-Wye	38·2	−6	W	1	C	47	85	42	8	5	–	–	10	10	2000
	Hartland Point	39·1	−6	N	3	c-bc	47	97	47	8	4	4	–	2-3	7-8	2500
	Bristol ...	38·7	+14	NNW	2	Zo	48	85	42	6	5	–	–	10	10	2700
	Portland Bill ...	38·9	−8	N	2	O	47	97	46	8	5	–	–	10	10	2500
	Plymouth ...	39·6	−8	NNW	1	c/d	47	97	46	5	5	–	–	10	10	400
	The Lizard ...	38·8	−8	–	0	C	48	92	46	7	5	–	–	9	9	2000
	Scilly (St. Mary's)	39·3	−10	NE	2	C	48	97	47	8	8	6	–	7-8	9+	800
	Guernsey ...															
6	Pembroke ...	39·2	−6	NNW	2	C	49	85	44	8	5	–	–	9+	9+	2000
7	Holyhead (Valley)	37·8	+6	SW'N	3	bc	49	75	43	8	5	4	–	2-3	4-6	3000
	Chester (Sealand)	37·2	−6	WNW	2	C	52	65	39	8	1	4	2	4-6	9	3000
8	Manchester ...	37·2	−2	W'S	2	Zo	48	75	41	6	5	–	–	9+	9+	3000
10	Spurn Head ...	36·0	−6	W	4	Zo	45	85	40	6	7	3	2	2-3	4-6	2500
	Catterick (Sc.) ...	35·3	+2	SW	3	c-bc	52	65	44	8	2	–	6	4-6	7-8	3000
	Tynemouth ...	33·9	−16	W	4	Zo	51	65	41	6	2	3	2	2-3	4-6	2500
11	St. Abbs Head	29·1	+8	SW	5	C	50	85	46	8	5	4	8	4-6	9+	2500
	Leuchars ...	30·1	+12	WSW	5	Zo	48	85	46	6	5	7	6	2-3	9	1500
12	Renfrew (Abbotsl.)	31·3	+2	SW'W	5	C	49	85	46	7	5	2	–	7-8	10	1200
	Eskdalemuir ...	32·6	+2	S	3	C/F	45	92	43	7	5	–	–	10	10	1100
	Point of Ayre ...	34·9	−8	NW	5	c-bc	51	85	46	8	4	4	–	1	7-8	2000
13A	Tiree	30·6	+4	WSW	2	ic	48	97	48	6	5	–	–	10	10	800
13B	Stornoway ...	27·1	+10	WSW	3	pr	47	85	42	8	8	4	–	2-3	4-6	2200
15	Dalwhinnie ...	29·0	+16	SW	4	c/d	43	85	40	6	5	–	–	10	10	2000
	Aberdeen ...	29·0	+20	NW	2	ic	48	97	47	6	5	7	–	4-6	9+	1500
	Wick ...	26·8	+22	SW	2	bc	46	85	43	8	3	6	1	2-3	4-6	2500
16	Sumburgh ...	22·4	+20	W'S	6	c-bc	48	85	44	7	2	6	5	4-6	7-8	1800
17	Blacksod Point	34·2	+2	SW	5	C	51	85	47	7	5	–	–	9+	9+	1500
18	Malin Head ...	31·9	+6	W	5	ido	49	85	45	8	5	–	–	10	10	1500
	Aldergrove ...	35·1	0	SW'S	4	C	47	85	43	7	5	7	2	2-3	9+	2000
19	Birr Castle ...	37·2	+2	SSW	2	C	49	75	41	7	5	2	–	7-8	10	2500
20	Valentia Obsy.	38·5	0	WSW	3	O	50	75	42	8	5	–	–	10	10	2800
	Roches Point	39·4	0	W'S	2	C	49	85	45	8	5	–	–	10	10	1500

OBSERVATIONS at 18h. G.M.T. 27th December

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	38·7	+6	NNW	1	Zo	44	85	41	5	5	–	–	9+	9+	2500	1	*
	Croydon ...	38·7	+6	–	0	cf+	45	85	41	3	5	–	–	4-6	10	300	1	*
	S. Farnborough	38·7	+6	NW'N	2	Zo	46	75	40	6	5	–	–	10	10	1800	1	*
	Boscombe Down	38·4	+4	NNE	1	C	45	85	40	7	5	–	–	10	10	1800	0	*
	Thorney Island	38·6	+4	N'E	1	C	46	85	41	7	5	–	–	10	10	1000	1	*
	Lympne ...	38·7	+6	–	0	Zo	42	97	42	6	5	–	–	10	10	2000	1	§2
	Manston ...	38·0	+4	NW	1	Zo	45	85	41	5	5	–	–	10	10	2000	1	*
2	Shoeburyness ...	38·0	+4	NW	1	Zo	41	92	39	6	·	7	–	0	2-3	–	1	*
	Felixstowe ...	37·5	+2	N	1	m	42	92	40	4	–	–	–	0	0	–	0	1
	Gorleston ...	35·6	+6	N	2	Zo	44	85	39	5	–	–	–	0	0	–	1	2
	Mildenhall ...	37·4	0	N	2	Zo	40	92	38	5	5	–	–	1	1	5000	1	*
	Cranwell ...	36·9	+2	N	2	Zo	44	75	38	5	–	–	–	0	0	–	0	*
3	Birmingham ...	38·0	0	NW	1	Zo	45	85	38	6	5	–	–	9+	9+	1500	1	*
	Upper Heyford	38·3	+2	NW	1	b-bc	39	92	37	7	5	–	–	2-3	2-3	2000	1	*
4	Ross-on-Wye	38·1	0	NW	1	C	45	75	39	8	5	–	–	9	9	2500	1	*
	Hartland Point	38·3	−2	N	2	C	47	85	44	8	5	–	–	9+	9+	700	1	3
	Bristol ...	38·6	0	–	0	Zo	44	97	43	6	5	–	–	9+	9+	1400	1	*
	Portland Bill ...	37·8	−4	N	2	C	47	97	46	8	5	–	–	10	10	2500	1	3
	Plymouth ...	33·5	+6	N	1	Zo	47	92	45	6	5	–	–	10	10	700	1	1
	The Lizard ...	37·9	0	–	0	C	47	97	47	5	5	–	–	10	10	2000	0	3
	Scilly (St. Mary's)	38·7	0	NE	2	C	46	97	45	7	5	–	–	9+	9+	800	1	2
	Guernsey ...																	
6	Pembroke ...	38·7	0	NNW	2	C	48	85	42	8	5	–	–	9+	9+	2000	1	2
7	Holyhead (Valley)	37·5	0	SW'S	3	b-bc	46	92	44	8	5	4	–	Tr	2-3	2500	0	2
	Chester (Sealand)	37·4	+4	–	0	Zo	42	85	37	6	–	–	–	0	0	–	0	*
8	Manchester ...	37·3	0	SW	3	Zo	41	85	37	6	–	4	–	0	1	–	1	*
10	Spurn Head ...	35·9	0	W	3	Zo	44	85	39	6	7	–	–	2-3	2-3	2500	1	1
	Catterick (Sc.) ...	35·4	+2	SSW	3	C	46	92	44	7	5	7	–	Tr	9+	3000	0	*
	Tynemouth ...	33·9	+4	W	4	Zo	49	75	42	6	2	–	–	7-8	7-8	2500	1	2
11	St. Abbs Head	31·1	+10	WSW	5	c-bc	43	92	41	7	5	2	–	4-6	7-8	2500	0	4
	Leuchars ...	30·6	+2	SSW	4	ido	48	97	47	5	5	–	–	2-3	10	600	1	*
12	Renfrew (Abbotsl.)	31·3	0	SW	5	c/d	50	85	47	6	5	2	–	4-6	10	1200	1	*
	Eskdalemuir ...	33·9	+6	S	1	c/d	45	97	44	6	5	–	–	10	10	900	1	*
	Point of Ayre ...	34·9	+18	W	3	b	45	92	43	8	5	–	–	Tr	Tr	2000	1	3
13A	Tiree	31·2	+6	SSW	1	dodo	47	97	47	6	5	–	–	10	10	600	1	2
13B	Stornoway ...	28·2	+10	SSW	2	c-bc	45	85	41	8	8	6	–	2-3	7-8	2000	1	2
15	Dalwhinnie ...		+2	SW	1	ido	42	92	40	6	5	1	–	9	10	1500	1	*
	Aberdeen ...	29·9	+2	WSW	1	cf	47	97	46	3	5	2	–	7-8	10	1500	1	1
	Wick ...	27·9	+8	SW	2	b-bc	41	92	39	8	2	6	3	1	2-3	2500	1	*
16	Sumburgh ...	24·5	+14	W'S	5	pr	46	92	44	7	8	–	–	9	9+	1800	1	4
17	Blacksod Point	34·3	+4	SW	5	C	51	85	47	7	5	–	–	10	10	1500	1	4
18	Malin Head ...	31·7	+2	W'S	5	dodo	48	85	44	6	5	–	–	10	10	800	2	4
	Aldergrove ...	34·9	+2	SSW	4	b-bc	46	85	43	7	5	4	–	1	2-3	3000	1	*
19	Birr Castle ...	36·8	0	SSW	1	C	48	85	44	8	5	2	–	7-8	10	2500	1	*
20	Valentia Obsy.	37·9	−2	SW	3	C	48	85	44	8	5	–	–	9+	9+	2500	1	2
	Roches Point	38·5	−4	W'S	1	C	48	92	46	8	5	–	–	10	10	1500	1	3

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 27th (39)	Weather. 13h.—18h. 27th (40)	Weather. 18h. 27th to 1h. 28th (41)	Weather. 1h.—7h. 28th (42)
1	London (Kew)	ido df cmo	cbc cmo	bc bm o	bc x cm
	Croydon ...	od o de fcm	c z c f	cf cm bf w	bf w bc m x
	S. Farnborough	cf m o ido c	cc m o	cm o bc m o	cm o
	Boscombe Down	c m o cc m o	cm o cc cm o c	c cm o	em o
	Thorney Island	cm o cm o ido	c z ido c	cm o	cm o
	Lympne ...	of o do do m	o m o c m o	cbc m o	cm o
	Manston ...	Ff c m o	cm o	c bm bf	bc f
2	Shoeburyness ...	ci fo m cm o	cm o bc m o	bc m o	of
	Felixstowe ...	of c m o	bc m bm	bm e	bm
	Gorleston ...	c z o	bc z o	c z o m w	bc m fe
	Mildenhall ...	c m c	cbc m o	bm o x	bm o x
	Cranwell ...	b z o	bm o	bm o	bm o bm b
3	Birmingham ...	C	c	cb	bbc
	Upper Heyford	c m o c	c b c	bc m o bm o w	bm o bm b, w c f
4	Ross-on-Wye	c	c		cb c c m x
	Hartland Point	ido bcc	ci fo	c	c
	Bristol ...	c	cm o	o m o	o m o
	Portland Bill ...	c	c	o	o
	Plymouth ...	cm o ido	cm o	o m o	o m o
	The Lizard ...	C	c o c	o z o	o z o
	Scilly (St. Mary's)	c b c c	c i d c	c	c
	Guernsey ...				
6	Pembroke ...	c	c	c	c
7	Holyhead (Valley)	c b c	b c b	b b c	c c w
	Chester (Sealand)	c z o, b c	c m o b c	m o b c, b	p, c m o
8	Manchester ...	c m o	c b c m o	b c m o	b c b m o c
10	Spurn Head ...	c c z o	b c m o	b c m o	p m o
	Catterick (Sc.) ...	c b c	c	b c	b c
	Tynemouth ...	b c m o	b c c m o	c b c r o d c	c m o
11	St. Abbs Head	b c c	c	c b c m o	c m o d
	Leuchars ...	c z o c m o	o d i d o	c l d o c d d o	c d o
12	Renfrew (Abbotsl.)	c d o d o m o c	c c d o d o m o	c i d o m o c	c c m o
	Eskdalemuir ...	b c p r o	c d o c	c r o	c r o
	Point of Ayre ...	c	c b	b c	b c c
13A	Tiree	ci fo m cm o	ci fo m o d m o	cm o, d d m, o d o r o, i d o	
13B	Stornoway ...	c p r o b b c p r o	b c c p r o b c	b c p r o c i d o c	c i r o b c
15	Dalwhinnie ...	o i d	o d i d o		o i d o
	Aberdeen ...	ci r o z o	r o	c f b c m	b c c m
	Wick ...	b c b b c	b c b b c	b b c i d o b c	b c
16	Sumburgh ...	b c c	b c p r o	c p r o	p r o b c
17	Blacksod Point	c	c	c	b c
18	Malin Head ...	r	d	d	r
	Aldergrove ...	c	c b c b	c	c
19	Birr Castle ...	c	c		b c
20	Valentia Obsy.	c	c	d	d
	Roches Point	c	c	d	d

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

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales	Light variable winds, cloudy; local hill fog in west: local fog in east especially to-morrow morning: mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate westerly winds; cloudy with some bright intervals: local fog in east: mild.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or fresh southwest to west winds, strong locally; cloudy with occasional drizzle and rain. Much hill fog in west: rather cold.
16 Orkneys and Shetlands	Fis 12-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light or moderate southwest winds; cloudy with local drizzle or rain especially in northwest; hill fog in west: rather cold.

GENERAL INFERENCE

An anticyclone is centred over Southern England and weak troughs of low pressure are moving east across northern districts of the British Isles. Weather will be cloudy in England and Wales, with local fog. There will be occasional rain and drizzle in Scotland and Ireland with some hill fog.

FURTHER OUTLOOK

Quiet and dull in the South; unsettled in the North with occasional rain.

Forecasts issued at 1030

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

7h. Tuesday 28th December 1943.

LOW

1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032 1034 1036 1038

HIGH

10° 5° W. 0° 5° E. 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Low cloud

Amount of Low cloud

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

Temperature °F.

Present weather

Visibility

Dew Point °F

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

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

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

Rs 526/4582 Wt 8031/8 w545 9m 5/48/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Tuesday 28th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Tuesday 28th December 1943 — No. 29386

OBSERVATIONS at 1 hr. G.M.T. 28th December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	35				*	*	*	*	*	*
	Croydon ...	290	38·8	0	SW	2	bf	35	97	35	3	-	-	-	0	0	-
	S. Farnborough	226	38·7	-2	SSW	1	zo	40	92	38	6	5	-	-	10	10	2300
	Boscombe Down	417	38·5	-2	-	0	zo	42	85	38	6	5	-	-	10	10	1400
	Thorney Island	10	38·0	-2	-	0	zo	45	75	38	6	5	-	-	10	10	2200
	Lympne ...	341	38·4	-2	NNW	1	zo	38	97	38	6	5	-	-	2-3	2-3	3000
	Manston ...	154	38·1	+2	NNW	2	bf	37	97	36	3	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	37·5	+2	WNW	1	m	38	97	38	4	-	-	-	0	0	-
	Gorleston ...	5	36·6	0	WNW	2	zo	37	85	34	6	-	-	-	0	0	-
	Mildenhall ...	15	37·7	-2	SW	2	zo	36	92	34	5	-	-	-	0	0	-
	Cranwell ...	203	36·9	+2	W	3	zo	38	92	36	5	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	38·6	0	-	0	zo	33	97	33	5	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	38·2	-4	N	2	c	46	85	42	8	5	-	-	9+	9+	1500
	Bristol ...	209	38·8	-2	WSW	1	zo	43	85	40	6	5	-	-	10	10	1600
	Portland Bill ...	32	38·5	0	N	2	0	47	97	46	7	5	-	-	10	10	2500
	Plymouth ...	86	38·8	-6	ENE	2	zo	46	85	43	6	5	-	-	10	10	1300
	The Lizard ...	240	38·0	-4	NE	3	zo	46	85	42	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	38·2	-6	NE	2	c	46	92	44	7	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	38·5	C	NW	2	c	47	75	39	8	5	-	-	9+	9+	1800
7	Holyhead (Valley)	32	37·5	-2	SW	3	c	47	97	46	8	5	-	-	10	10	2600
	Chester (Sealand)	16	37·6	-6	-	0	zo	38	85	35	6	5	-	-	Tr	Tr	3500
8	Manchester ...	230	37·8	0	S	3	zo	40	92	38	6	5	-	-	4-6	4-6	2000
10	Spurn Head ...	29	36·3	0	W	4	zo	41	85	37	6	7	-	-	2-3	2-3	2500
	Catterick (Sc) ...	192	35·6	+2	SW	2	bc	45	97	45	7	5	4	-	1	4-6	2500
	Tynemouth ...	108	33·9	0	W	3	zo	48	75	41	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	31·2	0	WSW	4	c/d	46	97	46	7	5	2	-	7-8	10	1500
	Leuchars ...	31	31·1	+6	SW	4	do.	48	97	48	5	5	-	-	10	10	700
12	Renfrew (Abbotsl.)	19	32·6	+2	WSW	4	c	50	85	47	7	5	-	-	10	10	1200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	35·5	0	W'N	3	bc	49	92	47	8	5	-	-	4-6	4-6	3000
13A	Tiree	44	31·2	-2	S'W	2	d. do.	46	97	46	5	5	-	-	10	10	400
13B	Stornoway ...	12	28·8	+2	SW	4	c	41	97	40	7	5	2	-	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	30·6	+2	WSW	2	c-bc	45	85	40	7	5	-	-	4-6	7-8	3000
	Wick ...	114	28·9	+6	S'W	2	b	39	97	38	9	5	4	-	Tr	1	2500
16	Sumburgh ..	15	25·6	+8	W'S	5	pr	44	92	42	8	3	6	3	4-6	7-8	2000
17	Blacksod Point	18	34·7	0	SW	3	c	50	85	46	7	5	-	-	9+	9+	1500
18	Malin Head ...	84	32·1	+2	SW	3	c	48	92	46	8	5	-	-	10	10	800
	Aldergrove ...	294	33·4	+4	SW'S	4	c	46	85	43	7	5	-	-	10	10	1900
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	37·9	0	S	2	do.	47	92	45	6	5	-	-	9+	9+	900
	Roches Point	22	38·7	0	W'S	2	bc/d	48	97	48	7	5	-	-	4-6	4-6	800

OBSERVATIONS at 7 hr. G.M.T. 28th December

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)	38·6	+2	-	0	m	37	97	36	4	5	-	-	10	10	2100	1	*
	Croydon ...	39·1	+4	NW	1	m	39	97	38	4	5	-	-	10	10	1500	1	*
	S. Farnborough	38·8	+6	NW'N	2	zo	42	85	37	6	5	-	-	10	10	1600	1	*
	Boscombe Down	38·5	+2	-	0	zo	41	85	37	6	5	-	-	10	10	1400		*
	Thorney Island	38·5	+4	N'W	2	zo	42	85	37	6	5	-	-	10	10	2400	1	*
	Lympne ...	38·4	0	NNE	2	zo	40	85	37	5	5	-	-	9+	9+	1800	0	2
	Manston ...	38·3	+2	NNW	2	of	39	97	38	3	5	-	-	10	10	2600	1	*
2	Shoeburyness ...	37·8	0	-	0	of	39	97	38	3	5	-	-	10	10	1500	1	*
	Felixstowe ...	37·4	0	NW	1	m	36	92	34	4	5	-	-	1	1	2000	0	1
	Gorleston ...	36·5	+2	WNW	3	bl-bc	34	97	33	2	5	-	-	2-3	2-3	1500	1	2
	Mildenhall ...	37·7	+2	SW	2	m	34	92	32	4	5	-	-	4-6	4-6	5000	3	*
	Cranwell ...	37·0	+4	WSW	3	zo	36	92	34	5	-	4	-	0	Tr	-	0	*
3	Birmingham ...	37·7	-4	W	2	zo	39	85	36	5	-	7	6	0	5	-	1	*
	Upper Heyford	38·5	+2	WSW	1	zo	35	97	35	5	5	-	-	9+	9+	2300	1	*
4	Ross-on-Wye	38·3	0	S'W	1	m	32	97	31	4	5	-	-	9+	9+	2000	1	*
5	Hartland Point	37·9	0	N	2	c	45	75	39	8	5	-	-	9+	9+	1500	1	3
	Bristol ...	38·7	+2	WNW	1	zo	41	85	37	6	5	-	-	10	10	1500	1	*
	Portland Bill ...	37·8	+4	N	2	0	44	92	42	7	5	-	-	10	10	2500	1	3
	Plymouth ...	38·6	-2	ENE	2	zo	44	85	41	6	5	-	-	10	10	1600	1	1
	The Lizard ...			NE	3	zo					5	-	-	10	10	1000		
	Scilly (St. Mary's)	37·6	-4	ESE	3	c	45	92	43	7	5	-	-	10	10	800	1	3
	Guernsey ...																	
6	Pembroke ...	38·3	-6	NNW	1	c	47	75	40	8	5	-	-	10	10	2000	1	2
7	Holyhead (Valley)	37·5	+2	W'S	2	c	46	75	40	7	5	-	-	10	10	2600	1	1
	Chester (Sealand)	37·0	-2	-	0	zo	38	97	37	4	5	-	-	10	10	3000	0	*
8	Manchester ...	37·1	-2	S	1	zo	37	97	36	6	5	-	-	10	10	2100	1	*
10	Spurn Head ...	36·2	0	SW	3	zo	40	85	36	6	-	-	-	0	0	-	1	2
	Catterick (Sc) ...	34·9	-2	SW	2	bc	46	97	46	6	-	3	-	0	4-6	-	0	*
	Tynemouth ...	33·1	-2	W	2	zo	48	85	48	6	2	-	-	7-8	7-8	2500	0	2
11	St. Abbs Head	30·5	-8	SW	4	ld.	47	92	45	7	5	2	-	7-8	10	1500	1	3
	Leuchars ...	30·3	-4	SW	3	zo	48	97	47	5	5	-	-	10	10	2000	1	*
12	Renfrew (Abbotsl.)	31·7	+6	WSW	4	id.	49	85	46	6	5	2	-	4-6	10	1400	1	*
	Eskdalemuir ...	33·8	+4	S'E	3	m	44	97	44	4	5	-	-	10	10	900	1	*
	Point of Ayre ...	34·8	-6	W'N	4	c	47	92	45	8	5	1	-	4-6	9+	2500	1	2
13A	Tiree	29·7	-14	SW	5	dd	49	97	49	5	5	-	-	10	10	300	1	1
13B	Stornoway ...	27·0	-10	S	3	bc	43	92	41	6	5	-	-	4-6	4-6	3000	1	2
15	Dalwhinnie ...	30·5	-4	WSW	3	c	43	85	39	6	5	-	-	9	9	2000	1	*
	Aberdeen † ...	29·9	-8	-	0	m	42	97	41	4	5	1	-	4-6	9+	4000	1	1
	Wick ...	28·0	-6	SW	3	c	42	92	40	8	5	-	-	4-6	9	3000	1	*
16	Sumburgh ..	25·5	0	SWW	5	bbc	46	97	45	8	2	-	-	2-3	2-3	2500	1	3
17	Blacksod Point	34·0	-2	SW	3	bc	47	97	46	7	5	-	-	4-6	4-6	1500	1	3
18	Malin Head ...	31·9	-2	SSW	4	c	47	85	43	8	5	-	-	10	10	800	2	3
	Aldergrove ...	34·7	-2	SW	3	c	45	85	42	7	5	-	-	10	10	3000	1	*
19	Birr Castle ...	36·2	-2	S	2	bc	43	85	39	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	37·3	-4	SSE	3	bc/d	46	92	44	7	5	-	-	4-6	4-6	1200	1	4
	Roches Point	37·9	-4	-	0	dd	44	97	43	5	5	-	-	10	10	450	1	3

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 27th Hrs. (38)
1	London (Kew)	48	32	21	0·2	Tr	0·0
	Croydon ...	47	34	29	0·1	Tr	0·0
	S. Farnborough	47	39	29	Tr	-	0·0
	Boscombe Down	47	40	39	-	-	0·0
	Thorney Island	48	41	25	Tr	-	*
	Lympne ...	46	37	32	Tr	Tr	0·0
	Manston ...	48	36	32	0·5	-	0·4
2	Shoeburyness ...	48	33	27	Tr	-	0·3
	Felixstowe ...	49	35	30	-	Tr	0·4
	Gorleston ...	49	34	31	-	-	2·1
	Mildenhall ...	51	33	23	-	Tr	1·8
	Cranwell ...	48	35	*	-	-	2·3
3	Birmingham ...	47	36	23	-	-	0·0
	Upper Heyford	46	32	25	-	-	*
4	Ross-on-Wye	47	32	22	-	-	0·0
5	Hartland Point	48	45	44	0·3	-	*
	Bristol ...	49	41	40	-	-	0·0
	Portland Bill ...	49	42	*	-	-	*
	Plymouth ...	49	43	42	Tr	-	0·0
	The Lizard ...	49		*	-		0·3
	Scilly (St. Mary's)	49	44	*	0·1	0·3	1·8
	Guernsey ...						
6	Pembroke ...	49	44	*	-	-	0·0
7	Holyhead (Valley)	51	45	41	-	-	*
	Chester (Sealand)	52	34	25	-	-	4·4
8	Manchester ...	49	34	26	-	-	*
10	Spurn Head ...	49	40	*	-	-	4·0
	Catterick (Sc) ...	52	43	32	-	-	3·4
	Tynemouth ...	51	46	40	-	-	*
11	St. Abbs Head	50	45	*	-	Tr	*
	Leuchars ...	50	47	46	Tr	0·2	0·1
12	Renfrew (Abbotsl.)	50	48	45	1	Tr	0·0
	Eskdalemuir ...	45	42	42	0·4	0·2	0·0
	Point of Ayre ...	51	41	*	-	-	3·3
13A	Tiree	50	45	44	1	-	0·0
13B	Stornoway ...	49	41	36	0·4	Tr	1·4
15	Dalwhinnie ...	47	39	33	3	0·3	0·0
	Aberdeen † ...	52	42	35	1	-	0·0
	Wick ...	50	37	31	0·1	Tr	*
16	Sumburgh ..	50	47	39	1	2	0·5
17	Blacksod Point	52	46	*	-	-	*
18	Malin Head ...	50	46		0·3	1	0·0
	Aldergrove ...	48	44	41	-	-	0·0
19	Birr Castle ...	49	43	39	-	-	0·0
20	Valentia Obsy.	50	45	42	-	0·4	0·0
	Roches Point	50	44	*	-	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 27th December				18h. G.M.T.				01h. G.M.T. 28th December				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 8-	02754	235 25		87	25753	19384		8-	25755	22485		8-	25645	18487	
115 24	02854	57625		87	81844	24587		24	01364	28524		24	02864	24424	
203															
206				50	01854	24324		57	02875	24218		57	02856	22228	
210 57	21864	22257		57	01764	18324									
219 53	01853	24384		55	01859	22314						5-	61658	18358	
230 50	526 24	24168		5-	52548	00058		62	62623	00068		02	52638	53368	
245 57	51644	20325		52	21546	24258		5-	52448	00058		5-	51447	24158	
260 57	52			5-	51										
277 53	02754	33526		57	02754	19325		5-	01744	20414		5-	01753	21323	
279 57	01843	22526						5-	02648	53758		5-	54465	53558	
285 23	02											53	21634	26456	
288 44	01862	21416						54	01631	18413					
575 57	02865	20327		57	02845	17327		57	02755	18228		57	01754	53425	
301 04	02890	22326		00	01790	24313		00	01790	22300		5-	05668	22328	
321 30	05664	24224		50	08462	24312		00	08490	00000		04	08490	20213	
290 44	05							40	05						
292 50	01853	24214		07	01793	00013									
310															
614 50	01			53	08							00	45		

13h. G.M.T. 27th December				18h. G.M.T.				01h. G.M.T. 28th December				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	02856	20127		04	01890	00013		5-	02765	00015		5-	03768	20128	
334															
340 50	02854	24225		00	00890	00010		50	04751	00011		5-	02768	00028	
336 53	05662	22326		00	05690	22210		00	05590	22200					
336												00	08490	24200	
350 5-	02753	26224		5-	05556	20116		00	08490	20190		54	05573	20113	
368				5-	02648	24128		5-	05658	30128		5-	05648	00028	
379				5-	02745	28228		00	05690	24200		5-	05648	26228	
390 5-	05647	26227		50	05554	24124		00	08490	00000		5-	05548	24128	
382 5-	02848	30128		5-	02748	29128						5-	05646	00028	
438				--	44							5-	05		
430 5-	05			5-	05							5-	05		
409 5-	02725	32156		5-	21727	00037		5-	21448	06158		5-	05645	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 28th December
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 ...	id. dfcmo	dbccmbxcm		
Croydon ...	oddcfcm	czcf	chjbcmx	
Greenwich ...	cm	cm	cmbxfe	Kew 24 hours ended 7h.
Camden Square ...	0	c	*	Max. Time 0·4 23-24h 27th
Kensington ...	cmof	ofe	*	Min. Time <0·1 15h 27th
Hampstead ...				

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % Today
Kew	48	32	21	0·2	Tr	0·0	*	*
Croydon ...	47	34	29	0·1	Tr	0·0	*	*
Greenwich ...	47	31	27	-	Tr	0·0	78	93
Westminster ...	48	34	28	-	-		94	97
Regents Park ...	47	35	31	-	-		80	87
Camden Square ...	47	35	24	-	-	*	*	93
Kensington ...	48	35	23	Tr	Tr		94	93
Hampstead ...							*	

SECRET

Page 1

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

BRITISH SECTION

Wednesday 29th December 1943

No 29987

OBSERVATIONS at 13h. G.M.T. 28th December

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force. (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)	37·6	-10	W	2	Z_o	41	75	35	5	5	–	–	9+	10	2500
	Croydon ...	37·7	-16	W	1	Z_o	42	85	37	5	5	–	–	10	10	2500
	S. Farnborough	37·9	-14	SSW	2	Z_o	40	85	36	6	5	–	–	10	10	1600
	Boscombe Down	37·8	-10	NNW	1	c	40	85	35	7	5	–	–	10	10	1600
	Thorney Island	37·7	-16	–	0	Z_o	43	85	38	6	5	–	–	10	10	2500
	Lympne ...	37·5	-14	SSW	2	m	44	75	38	4	5	–	–	7-8	7-8	2500
	Manston ...	37·2	-12	WNW	2	Z_o	47	75	38	5	–	4	–	0	Tr	–
2	Shoeburyness ...	36·8	-16	N'S	1	m	46	75	39	4	–	–	–	0	0	–
	Felixstowe ...	37·0	-10	NW	2	Z_o	43	85	40	5	–	–	–	0	0	–
	Gorleston ...	36·1	-14	N'N	2	Z_o	43	85	38	5	–	4	–	2-3	2-3	–
	Mildenhall ...	36·7	-6	WSW	3	Z_o	40	92	38	5	5	–	–	9+	9+	4000
	Cranwell ...	35·7	-10	WSW	3	Z_o	45	75	39	5	–	–	2	0	Tr	–
3	Birmingham ...	37·4	-6	W	2	Z_o	43	75	36	6	5	–	–	9+	9+	2500
	Upper Heyford	37·9	-10	SSW	1	Z_o	40	85	37	6	5	–	–	9+	9+	2500
4	Ross-on-Wye	37·3	-14	W	2	c	41	85	36	8	5	–	–	10	10	2500
5	Hartland Point	37·5	-4	NE	2	c	43	75	37	8	5	–	–	9+	9+	2000
	Bristol ...	38·0	-8	–	0	Z_o	42	75	36	5	5	–	–	10	10	2000
	Portland Bill ...	37·3	-16	NNE	2	0	44	92	42	7	5	–	–	10	10	2500
	Plymouth ...	37·9	-14	ENE	2	Z_o	44	85	39	6	5	–	–	10	10	1000
	The Lizard ...	37·0	-6	NE	3	Z_o	45	85	40	6	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	37·3	-6	E'S	2	c	47	75	41	8	5	–	–	10	10	1200
	Guernsey ...															
6	Pembroke ...	38·0	-2	SSE	1	c	47	75	39	8	5	–	–	9+	9+	2000
7	Holyhead (Valley)	36·7	-8	WSW	3	c	48	65	37	9	5	–	–	9+	9+	3000
	Chester (Sealand)	36·6	-8	WNW	1	c	46	65	36	8	5	–	–	10	10	2500
8	Manchester ...	36·7	-6	W	3	Z_o	49	85	39	6	5	–	–	9+	9+	2500
10	Spurn Head ...	35·5	-6	WSW	3	Z_o	43	75	37	6	1	3	2	2-3	2-3	2500
	Catterick (Sc.) ...	33·7	-16	WSW	5	c8c	47	75	40	9	5	3	9	2-3	7-8	3000
	Tynemouth ...	33·7	-12	WSW	3	Z_o	47	85	42	6	3	5	–	4-6	7-8	2800
11	St. Abbs Head	30·4	0	N	4	c8c	47	85	43	8	5	4	–	4-6	7-8	2500
	Leuchars ...	29·9	-8	SW	4	Z_o	48	92	46	6	5	–	–	4-6	9+	1000
12	Renfrew (Abbotsl.)	31·2	-10	WSW	3	c/d	47	92	45	6	5	7	–	7-8	10	1000
	Eskdalemuir ...	32·7	-10	SSW	4	c	43	92	41	8	5	–	–	10	10	1200
	Point of Ayre ...	35·2	+2	WN	4	c	47	85	44	8	5	–	–	10	10	1000
13A	Tiree	29·0	-10	SW	6	d8d8	49	97	43	5	5	–	–	10	10	200
13B	Stornoway ...	22·8	-26	WSW	5	id8	48	85	44	8	5	9	–	7-8	9+	900
15	Dalwhinnie ...	27·5	-6	WSW	3	id	45	85	42	7	5	–	–	10	10	2000
	Aberdeen ...	27·8	-16	SW	3	Z_o	48	85	44	6	5	9	9	2-3	9+	2500
	Wick ...	24·4	-32	SW	2	ir8	43	97	43	8	5	7	–	9	10	4000
16	Sumburgh ...	22·8	-22	SWS	6	c	46	97	45	8	2	6	6	1	9	2000
17	Blacksod Point	32·3	-6	SW	4	c	49	97	49	8	6	–	–	9+	9+	300
18	Malin Head ...	31·5	-6	SSW	3	c	48	85	44	8	5	–	–	10	10	1500
	Aldergrove ...	34·2	-6	NW	3	c/d	45	92	43	8	5	–	–	4-6	9+	600
19	Birr Castle ...	36·0	-6	S	2	c	46	85	42	8	5	2	–	7-8	10	2500
20	Valentia Obsy.	35·7	-6	SSE	4	c	48	92	46	8	5	–	–	9+	9+	1200
	Roches Point	37·7	-6	SW	2	c/d	48	97	48	8	5	–	–	9	9	800

OBSERVATIONS at 18h. G.M.T. 28th December

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. 0–Force (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)
37·2	-2	W	2	Z_o	40	75	34	6	5	-	-	10	10	2800	1	*
37·1	-2	WSW	1	Z_o	39	85	35	3	5	-	-	10	10	1100	1	*
37·3	-2	SSW	1	Z_o	39	85	34	5	5	-	-	10	10	1200	1	*
37·0	-2	-	0	Z_o	39	85	35	6	5	-	-	10	10	1800	0	*
37·0	-2	NNW	2	Z_o	40	85	35	5	5	-	-	10	10	1500	1	*
37·1	-2	W	1	m	40	85	37	4	5	-	-	10	10	1500	1	*
36·6	-4	NNW	1	m	40	85	36	4	5	-	-	10	0	900	1	*
36·7	0	W	1	c/m	36	92	34	2	5	-	-	10	10	1500	1	*
36·6	-2	NNW	1	m	38	85	35	4	-	-	-	0	0	-	0	2
35·2	+6	W	2	Z_o	39	85	34	5	5	-	-	4-6	4-6	1500	0	1
35·8	0	SW	3	m	35	97	34	4	-	-	-	0	0	-	1	*
34·9	0	W	2	m	36	97	34	4	-	-	-	0	0	-	0	*
36·1	-2	W	2	Z_o	41	75	35	6	5	-	-	10	10	2500	1	*
36·6	-6	SW	3	c	38	85	35	7	5	-	-	10	10	1600	1	*
36·5	-4	W	2	c	41	75	35	8	5	-	-	10	10	2500	1	*
36·6	0	NNE	2	c	42	75	36	8	5	-	-	9+	9+	2000	1	3
37·2	+2	NW	1	Z_o	40	75	34	6	5	-	-	10	10	1500	1	*
36·0	-4	NNE	2	0	41	97	39	7	5	-	-	10	10	2500	1	3
37·5	+2	ENE	1	Z_o	42	85	38	6	5	-	-	10	10	1400	1	1
36·2	0	NE	2	Z_o	44	85	40	6	5	-	-	10	10	1500	0	3
36·5	0	NNE	2	c	45	92	43	7	5	-	-	10	10	1200	1	3
36·3	-2	N	1	c	46	85	41	8	5	-	-	10	10	2000	0	2
35·9	-2	SSW	2	c	45	85	40	8	5	-	-	10	10	1900	0	*
35·7	-4	W	1	c	44	75	36	7	5	-	-	10	10	1900	0	*
35·7	-2	W	3	Z_o	42	85	38	6	5	-	-	10	10	2000	1	*
34·7	+4	WSW	3	Z_o	41	85	38	5	5	-	-	1	1	2500	1	1
33·2	+2	SW	2	c	45	85	41	8	5	-	-	9	9	3000	0	*
32·2	-4	WSW	2	Z_o	47	75	38	6	5	-	-	9+	9+	2500	0	2
28·4	-10	SW	4	c-bc	45	85	42	7	5	-	-	7-8	7-8	2500	0	4
27·5	-10	SW	4	Z_o	46	97	43	6	5	7	-	9	10	1100	1	*
29·0	-10	SW	2	c	48	85	44	6	6	7	-	9	10	1000	1	*
30·7	-6	SSW	3	d8d8	43	92	41	6	6	2	-	7-8	10	700	1	*
33·2	-10	WNW	4	c	47	85	44	8	5	-	-	10	10	2000	0	3
27·2	-12	SW	6	d8	48	97	43	6	5	-	-	10	10	300	1	3
29·7	-14	SW	4	r8	49	97	49	6	6	2	-	4-6	10	800	1	3
25·5	-4	SSW	4	0	45	85	40	7	5	-	-	10	0	2500	1	*
25·1	-14	SWS	4	c	47	85	43	7	5	4	-	9	9+	2500	1	*
21·4	-2	WSW	2	i8	47	92	43	8	5	7	-	4-6	10	2500	1	*
17·6	-34	SWS	0	ad	47	97	47	6	5	-	-	10	10	800	1	4
32·6	-6	SW	4	c/a	49	97	49	7	5	-	-	9+	9+	1500	1	3
29·5	-10	WSW	5	c-bc	48	85	44	8	8	-	-	7-8	7-8	1500	2	4
32·9	-6	SWS	4	c	45	92	43	8	5	-	-	4-6	9+	1500	1	*
34·9	-4	S	1	c	44	92	42	7	5	-	-	10	10	2500	1	*
36·1	+4	SE	4	i8	47	92	43	7	5	-	-	9+	9+	700	1	3
36·3	-6	SW	1	c	46	97	46	8	5	-	-	5	9	800	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 28th (39)	13h.–18h. 28th (40)	18h. 28th to 1h. 29th (41)	1h.–7h. 29th (42)
cmfmo cmcmo	cmo cmofw	cmo ofom	cmoidomo omcm
cmo	cmo	cmo cmoom	cmo
cmoc	ccmo		
cmo	cmo	cm	cmcmo
cmocm	cmocm	cm	com
cfcm	bcz8cmo	cm	cm
ofcfbf	bmcfof	cf	cmo
bcmxbmo	bmbmw	cm	cmobcmo
bcz8	bcffez8	bccmzo	cmobcmo
bcmxbcmo	cmbcmcmb	bmcmo	cmobcmo
bmo	bcmbm	bcfbf	bcfcm
		c	c
cz	c		
cmo	cmo c	cmoccmo	cmocdomo
cmfmc	cc	c	bcz8
c	c	c	c
omocmoomo	omo	cmo	corno
o	oo	o	
cmo	cmo	cmo	omo
ocmo	bomm	0z8	0z8
c	c	c	c
c	c	c	bcd
c	c	c	cido
cmzo	c	c	c
cmomo	cmo	cbccmo	cmo
bcmo	acmo	cmo	cmo
bcc	c	cbc	bc
bcc	cmo	cbcmo	bcc
cbcc	bcbc	bcc	cbcc
cidomocmo	cmo	cbcmo	bcmo
cmoidocmo	oidbmcmo	cidoc,ir8	cir8, bmd
dodr8	cmcdo	db	cbcbc
c	c		
odmcdomo	c	cdcdomcd	bcpr8bc
cidoccido	cidorrmo	cr8bc,db	dcpr
cido	bad	cbc	ir8c
cmcffcmo	cmocbcc		L
cciro	cir8cr8cido	bcidcb	bcidcir8
cpr8c	eddmo	dpro	prsqc
bc	d	bc	d
c	c	a	a
cc	c	cbc	cbccbcmo
c	c	*	a
d	d	*	d
d	d	d	a

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

Districts	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light to moderate west to northwest winds. Cloudy with local slight drizzle at first, becoming fine tonight apart from scattered showers in the West. Local hill fog to-day; rather cold with local ground frost tonight.

West to northwest winds, fresh in south, strong to gale at first in north. Squally showers of rain and hail in west and north, and locally in east with snow on high ground in North and West Scotland; cold.

16 Orkneys and Shetlands	As 11–15
17 N.W. Ireland	
18 N.E. Ireland	
19 S.E. Ireland	Light or moderate west to northwest winds. Partly cloudy with local drizzle and showers: rather cold.
20 S.W. Ireland	

GENERAL INFERENCE

Pressure is high to the southwest and low to the northeast of the British Isles. Weak troughs of low pressure are moving southeast across the country. Weather will be cloudy at first in England and Wales, with local drizzle, becoming fine apart from showers in the West. There will be squally showers of rain and hail in the North, with snow on high ground.

FURTHER OUTLOOK

A ridge of high pressure is moving east across the British Isles with fair weather generally.

Gale warning in operation in districts 13A, 13B, 15 & 16. Times of issue 2335 on 28.12.43 & at 1115 on 29.12.43.

Forecasts issued at 1030

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

7h. Wednesday 29th December 1943.

LOW

HIGH

1032

1034

1030

1028

1026

1024

1022

1020

1018

1016

1014

1012

1010

1008

1006

1004

1002

1000

10°

5°W.

0°

5°E

10°

60°

55°

50°

Mb. In.

1050

1040

1030

1020

1010

1000

990

980

970

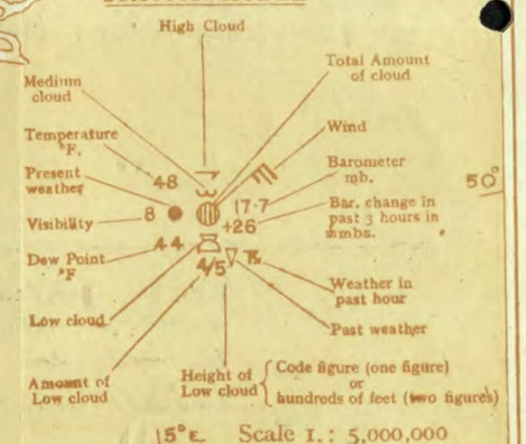
960

950

940

930

STATION MODEL



Scale 1.: 5,000,000

HMSO Press, M.O. Dunstable

Pt 524/4582 Wt 8031 D.w.545 Gp 348/2 7440 12/43

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 23th December,

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Wednesday 29th December 1943 — No. 29987

OBSERVATIONS at 1 hr. G.M.T. 29th December

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	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon ...	290	36·3	−4	SW	1	m	37	85	33	4	5	–	–	10	10	900
	S. Farnborough	226	35·7	−10	WSW	1	zo	38	85	33	6	5	–	–	10	10	1300
	Boscombe Down	417	35·9	−6	NW	1	zo	37	85	33	5	5	–	–	10	10	1000
	Thorney Island	10	36·1	−8	NW'N	1	m	37	85	34	4	5	–	–	10	10	1100
	Lympne ...	341	35·6	−14	NW	1	m	37	85	34	4	5	–	–	10	10	1700
	Manston ...	154	35·1	−14	W'N	1	m	37	92	35	4	5	–	–	10	10	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	34·7	−14	WSW	2	m	39	78	33	4	5	–	–	10	10	2000
	Gorleston ...	5	33·4	−12	SW'W	2	zo	38	85	33	6	5	–	–	10	10	1500
	Mildenhall ...	15	34·6	−10	WSW	3	zo	39	85	35	5	5	–	–	10	10	1500
	Cranwell ...	203	33·1	−12	WSW	3	bfo	37	97	36	3	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	35·3	−10	WSW	2	zo	38	85	35	6	5	–	–	10	10	1400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	35·8	−4	SE	2	c	41	85	38	8	5	–	–	10	10	2500
	Bristol ...	209	36·3	−6	NW	1	zo	39	85	35	6	5	–	–	10	10	1300
	Portland Bill ...	32	35·6	−4	NE	2	zo	39	92	36	7	5	–	–	10	10	2500
	Plymouth ...	86	36·8	−6	ENE	2	zo	38	85	35	5	5	–	–	10	10	1100
	The Lizard ...	240	35·4	−6	NNE	3	zo	40	85	37	6	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	36·0	−2	E'S	3	c	43	85	38	7	5	–	–	10	10	1500
	Guernsey ...	175															
6	Pembroke ...	142	35·4	−2	NNW	3	c	46	85	42	7	5	–	–	9+	9+	1800
7	Holyhead (Valley)	32	33·8	−10	SW	4	c	46	92	44	8	5	–	–	7-8	10	1000
	Chester (Sealand)	16	32·8	−18	WSW	1	c	45	85	40	7	5	–	–	10	10	2500
8	Manchester ...	230	33·0	−14	SW'S	3	zo	42	85	38	6	5	–	–	10	10	2100
10	Spurn Head ...	29	32·7	+8	SW	3	zo	40	85	35	5	5	–	–	7-8	7-8	1500
	Catterick (Sc) ...	192	29·9	−22	W	4	bc	45	85	42	7	5	3	–	2-3	4-6	2000
	Tynemouth ...	108	28·1	−24	W	5	zo	47	75	40	6	2	–	–	2-3	2-3	2500
11	St. Abbs Head	280	25·3	−18	SW	4	c-bc	46	97	45	7	5	–	–	7-8	7-8	1500
	Leuchars ...	31	22·7	−24	SW	5	zo	47	97	46	6	5	7	–	4-6	4-6	2000
12	Renfrew (Abbotsl.)	19	26·4	−8	SW	4	iro	49	85	45	6	5	–	–	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	31·0	−18	W'N	5	c	47	92	45	8	5	–	–	10	10	1000
13A	Tiree	44	25·2	−6	W'S	4	c/r	47	97	47	6	5	–	–	10	10	500
13B	Stornoway ...	12	19·6	−10	WSW	5	bc	46	75	38	7	5	–	–	4-6	4-6	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	21·4	−14	SW'S	3	c	46	85	43	8	5	1	–	7-8	10	4000
	Wick ...	114	18·7	−10	SW	3	b	44	92	42	8	5	–	–	1	1	2000
16	Sumburgh ...	15	12·3	−22	WSW	8	c	48	92	46	8	4	–	6	2-3	9+	2500
17	Blacksod Point	18	31·9	−6	SW	4	c-bc	48	97	48	7	5	–	–	7-8	7-8	1500
18	Malin Head ...	84	27·3	−14	SW'N	5	id	48	92	46	6	–	2	–	0	10	800
	Aldergrove ...	294	30·5	−14	SW	4	bc	45	92	43	7	5	–	–	4-6	4-6	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	35·4	−4	SSW	3	c/a	47	97	47	6	5	–	–	10	10	1000
	Roches Point	22	35·8	−2	SW'W	2	id	45	97	45	7	5	–	–	9	9	800

OBSERVATIONS at 7 hr. G.M.T. 29th December

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)
32·9	−16	SW	2	id.	39	85	35	6	5	–	–	10	10	2800	1	*
33·8	−12	W	2	m	37	85	34	4	5	–	–	10	10	800	1	*
33·5	−10	SSW	2	zo	37	85	34	6	5	–	–	10	10	1000	1	*
33·8	−12	NW	2	zo	37	85	32	5	5	–	–	10	10	1100	1	*
33·7	−10	N'W	1	zo	34	85	31	5	5	–	–	10	10	700	1	2
33·5	−6	NW'W	2	m	35	85	32	4	5	–	–	10	10	1000	1	*
33·3	−12	WNW	1	zo	37	85	33	5	5	–	–	10	10	2500	1	*
32·2	−10	SW'W	2	zo	38	85	34	5	5	–	–	10	10	2000	0	2
31·6	−10	W	2	zo	37	85	32	6	4	–	–	2-3	2-3	1200	0	1
31·8	−10	SW'N	3	zo	39	85	35	5	5	–	–	9+	9+	2400	0	*
30·2	−2	SW	4	m	42	85	39	4	5	–	–	7-8	7-8	2000	0	*
31·7	−10	WSW	2	c	42	85	39	7	6	7	–	7-8	10	800	1	*
32·8	−12	WSW	2	do do	38	92	37	5	5	–	–	10	10	1200	*	*
32·4	−20	SW	1	c	41	92	39	7	5	–	–	9	9	2000	1	*
33·7	−8	WNW	2	c	43	85	40	8	5	–	–	10	10	2000	1	2
33·6	−18	W'S	1	zo	41	92	39	6	5	–	–	10	10	800	1	*
33·4	−8	ESE	1	zo	38	92	36	6	5	–	–	10	10	1100	0	1
34·6	−6	NNE	2	c	39	85	36	6	5	–	–	10	10	1000	0	3
34·9	−16	ENE	2	c	42	85	38	7	5	–	–	10	10	1200	1	3
33·2	−6	NW	3	do do	46	97	45	6	5	–	–	4-6	4-6	1500	1	3
31·9	−10	WSW	4	c/d	47	92	45	8	5	–	–	7-8	10	1200	1	2
31·0	−6	W'S	2	c	46	85	41	7	5	–	–	10	10	3000	0	*
30·6	−14	SW	3	zo	45	85	41	6	5	–	–	10	10	2200	1	*
29·3	−14	SW'S	4	zo	41	85	37	6	7	7	–	4-6	7-8	1500	1	1
28·5	−8	SSW	2	c-bc	46	85	43	7	5	–	–	7-8	7-8	2000	0	*
26·8	−6	W	4	C	48	85	43	7	5	–	–	9+	9+	2500	0	3
21·2	−2	WSW	6	c-bc	49	85	46	7	5	–	–	7-8	7-8	1500	0	4
21·6	0	W	4	zo	46	92	44	6	5	7	–	1	2-3	1500	1	*
23·7	−8	N	6	b-bc	47	85	42	7	5	–	–	2-3	2-3	2000	1	*
24·1	−6	SW'N	6	ro ro	45	97	44	5	–	2	–	10	10	900	1	*
28·0	−14	NNW	5	c	47	92	45	8	2	–	–	1	10	2000	0	3
25·2	+2	W	5	bc/pr	46	92	44	7	8	–	–	4-6	4-6	1800	1	3
18·8	+4	WSW	6	pr	44	75	36	7	5	–	–	9	9	1500	1	5
22·0	−4	W	4	iro	41	75	36	7	5	–	–	9	9	2000	1	*
19·9	−8	S	2	b	45	75	38	7	5	–	–	1	1	2500	1	2
16·9	−8	SW	3	iro	43	97	42	8	5	–	–	4-6	4-6	2000	1	*
08·9	−14	WSW	8	c-bc/pr	45	85	41	8	8	–	–	7-8	7-8	2500	1	5
30·8	−2	WSW	3	c/d	48	97	48	7	5	–	–	10	10	1500	1	3
27·0	+2	WNW	4	id	47	75	35	8	5	7	–	4-6	7-8	1500	2	4
29·2	−6	SW	4	do do	45	97	44	6	5	–	–	10	10	500	1	*
32·3	−4	SW	2	c	46	97	46	7	5	–	–	10	10	1500	1	*
34·3	+2	SW	3	c/d	48	97	48	6	5	–	–	9+	9+	1200	1	4
34·5	−6	W'S	3	c-bc	46	97	46	8	5	–	–	7-8	7-8	1500	1	3

PAST 24 HOURS.

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 28th Hrs. (38)
42	37	36	–	Tr	0·0
42	39	35	Tr	Tr	0·0
42	35	35	–	–	0·0
41			–		
44	36	32	–	–	*
44	33	34	–	–	0·0
47	35	34	–	–	5·0
46	35	30	–	–	1·4
47	36	30	–	–	6·1
44	43	33	–	–	5·4
41	35	28	–	–	0·2
45	36	32	–	–	*
43	39	38	–	–	0·0
41	37	37	–	Tr	*
42	40	38	–	–	0·0
45	40	40	–	–	*
49	39	38	–	–	0·0
46			–		*
45	36	36	–	–	0·0
45	38	*	–	–	0·0
47	40	*	–	–	0·0
47	43	*	–	Tr	0·0
48	45	44	–	2	*
46	44	41	–	–	0·0
45	37	*	Tr	–	4·8
47	43	36	Tr	–	3·9
49	46	41	–	–	*
47	44	*	–	–	*
49	46	43	Tr	–	0·0
50	49	39	0·1	0·5	0·1
48	45	*	2	3	0·0
48	45	*	–	–	0·0
50	45	42	1	2	0·0
49	42	38	3	1	0·0
48	41	36	3	0·5	0·0
50	42	21	–	–	0·2
47	41	36	0·3	0·5	*
47	44	40	0·2	3	
50	47	*	0·3	0·4	*
49	46		–	1	0·0
46	44	40	Tr	Tr	0·0
49	*	44	–	0·3	0·6
48	46	44	Tr	0·3	0·3
47	44	*	1	0·2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 28th December: III	$C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 29th December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	57	02753	17326	5-	68667	54667	5-	05641	55721
115	52	61735	20468	52	62735	30568	54	02854	61665
203									
206	57	61855	22267	57	51756	22168	50	01863	22523
210									
219	57	51735	22458	5-	52638	22558			
230	5-	52537	53458	5-	52638	53458	62	58647	53468
245	57	02753	22225	5-	08447	20227	5-	05666	54426
260									
277	5-	51844	20428	5-	02748	20458	57	05645	53525
279	5-	02944	20458				5-	21688	53558
285	53	51							
288	54	01764	19315				50	01754	21414
575	5-	61847	22367	57	02744	55325	52	02745	20358
301	5-	02843	22328	5-	02858	22328	5-	02755	55428
321	04	08491	22213				50	08452	20202
299	54	05							
292	53	41653	22446	5-	02846	20226	50	02755	20415
310									
314	03	05		5-	08		5-	08	

13h. G.M.T. 28th December: III	$C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 29th December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333	57	02866	20227	57	02856	00028	5-	51648	20328
334	--	02645	28316	--	02644	28315			
340	5-	02768	26228	5-	02758	25128	5-	02768	24228
136	00	05593	18213	5-	05548	20228	50	05553	22223
336	50	02		50	05				
350	5-	05568	20128	5-	05648	24328	5-	05648	23228
368	5-	05658	32128	5-	05558	00028	5-	05548	00028
379	5-	02744	24128	5-	05638	25228			
390	5-	08448	20148	5-	08458	20118	5-	45348	00048
382	5-	02848	28128	5-	02748	00028	5-	05648	00028
438	5-	08448	10228	5-	05				
430				5-	05		5-	05	
409	5-	02867	08217	5-	02745	00128	5-	01748	10328

07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
57	01765	20328
--	02645	26216
5-	02754	00028
5-	05557	22227
5-	05648	22328
5-	05548	26228
5-	05634	26258
5-	05648	24428
5-	25638	00058
5-	05658	28228

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 December
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 ...	cmfm.	cm.	cm.dum.	Kew 24 hours ended 7h. Max. Time 0·7 8-10h 28th. Min. Time 0·1 0-4h 29th.
Croydon	cmcm.	cm.ofw	ofom	
Greenwich ...	cof	om	omdf	
Camden Square	0	0	*	
Kensington ...	of	ofmo	*	
Hampstead ...	0	0	od	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	42	37	36	–	Tr	0·0	*	*
Croydon ...	42	39	35	Tr	Tr	0·0	*	*
Greenwich ...	41	36	35	–	Tr	0·0	80	95
Westminster ...	42	37	36	–	–		84	98
Regents Park ...	42	37	35	–	Tr		83	95
Camden Square	42	37	35	–	Tr	*	*	96
Kensington ...	42	37	35	–	Tr		81	92
Hampstead ...	40	34	32	–	Tr		*	97

SECRET

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

Wednesday 30th December 1943 / Thursday No. 29988

OBSERVATIONS at 13h. G.M.T. 28th DECEMBER

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)	31·4	-16	WSW	2	Z_o	41	92	39	5	5	-	-	10	10	1800
	Croydon ...	31·9	-14	WSW	3	m	41	92	39	4	5	-	-	10	10	1800
	S. Farnborough	31·8	-22	SW	3	$d_o d_o$	41	92	40	4	6	-	-	10	10	500
	Boscombe Down	31·5	-20	-	0	d/d	42	92	40	6	5	-	-	7-8	10	1400
	Thorney Island	32·1	-20	-	0	$d_o d_o$	39	97	39	4	5	-	-	10	10	1700
	Lympne ...	31·9	-18	WSW	2	m	36	97	35	4	6	-	-	10	10	700
	Manston ...	31·1	-16	WS	3	Z_o	39	92	37	5	5	-	-	4-6	10	1200
2	Shoeburyness ...	31·2	-18	W	2	Z_o	41	92	39	5	5	-	-	10	10	1000
	Felixstowe ...	29·9	-22	SW	3	Z_o	41	85	37	5	5	-	-	4-6	4-6	2500
	Gorleston ...	28·2	-10	W'N	3	c	46	85	41	7	5	7	-	4-6	9	3000
	Mildenhall ...	29·1	-22	WS	4	c-bc	47	75	41	7	-	-	2	0	7-8	-
	Cranwell ...	28·2	-16	WS	3	Z_o	47	85	42	5	-	7	-	0	7-8	-
3	Birmingham ...	30·7	-10	N	2	c	46	75	40	8	5	-	-	10	10	1500
	Upper Heyford	30·6	-18	WS	3	c	43	85	40	7	5	-	-	4-6	9+	1800
4	Ross-on-Wye	30·8	-16	WSW	2	c	45	85	40	8	5	-	-	9+	9+	2000
5	Hartland Point	32·8	-10	WNW	2	id	45	92	44	7	5	-	-	9+	9+	600
	Bristol ...	31·9	-16	WS	2	Z_o	45	85	42	6	5	-	-	9+	9+	1500
	Portland Bill ...	32·8	-8	W	2	o	44	92	42	7	5	-	-	10	10	2500
	Plymouth ...	33·8	-16	SW	1	Z_o	44	92	42	5	5	-	-	10	10	1000
	The Lizard ...	33·4	-10	-	0	Z_o	43	92	41	5	5	-	-	10	10	1000
	Scilly (St. Mary's)	34·7	-6	N	2	c	45	92	43	8	5	-	-	10	10	1200
	Guernsey ...															
6	Pembroke ...	32·6	-6	WNW	4	c	47	85	44	8	5	-	-	9+	9+	3000
7	Holyhead (Valley)	30·5	-12	N'N	3	c	48	92	46	7	5	-	-	9+	10	1000
	Chester (Sealand)	29·1	-14	NW'N	2	c/fr	49	85	44	8	5	-	-	7-8	10	1400
8	Manchester ...	29·2	-12	N'N	5	$d_o d_o$	46	97	45	6	5	-	-	7-8	10	800
10	Spurn Head ...	27·0	-12	W	5	Z_o	45	85	41	5	7	3	-	4-6	9	1500
	Catterick (Sc.) ...	26·6	-10	W	5	c-bc	49	85	45	8	6	7	-	7-8	7-8	2200
	Tynemouth ...	25·0	-12	W	5	b-bc/q	49	76	40	7	2	-	-	2-3	2-3	2200
11	St. Abbs Head	20·7	+18	W	5	bc	47	85	42	7	1	4	4	2-3	4-6	3000
	Leuchars ...	20·3	-8	SW	4	c-bc	49	75	40	8	1	-	-	11	7-8	3000
12	Renfrew (Abbotsl.)	22·9	-6	W'S	7	pr	47	76	41	8	3	7	-	7-8	9	2000
	Eskdalemuir ...	23·7	-6	W'S	4	c-bc/pr	45	75	36	8	8	-	-	7-8	7-8	1700
	Point of Ayre ...	27·6	-4	NW'N	4	c-bc	49	85	45	8	5	4	-	7-8	7-8	2000
13A	Tiree	24·8	-6	W'N	6	c-bc	46	85	41	7	8	6	-	4-6	7-8	1500
13B	Stornoway ...	18·2	-6	W	6	bc/pr	41	85	36	7	8	6	-	4-6	4-6	1500
15	Dalwhinnie ...	19·5	-2	W	4	iro	47	65	34	7	5	-	-	9+	9+	2000
	Aberdeen ...	18·6	-8	SW	3	c	48	65	36	8	5	-	-	9+	9+	2500
	Wick ...	15·5	-10	NW	6	b-bc/pr	41	97	41	8	5	-	-	1	2-5	1000
16	Sumburgh ...	08·1	-6	W	8	c-bc	42	75	36	8	2	6	-	4-6	7-8	1800
17	Blacksod Point	31·7	-2	W	4	c	49	75	41	8	8	-	-	9+	9+	1500
18	Malin Head ...	27·0	-4	NW	5	pr	47	75	39	8	8	-	-	7-8	7-8	1500
	Aldergrove ...	28·4	-10	WS	4	c-bc	46	75	40	8	8	-	-	7-8	7-8	3000
19	Birr Castle ...	31·8	-6	SW	1	id	48	97	48	7	5	-	-	10	10	1500
20	Valentia Obsy.	34·3	-6	WNW	3	c	50	85	46	7	5	-	-	9+	9+	2000
	Roches Point	33·7	-10	WNW	2	c	48	97	48	8	5	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 28th DECEMBER

Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	29·1	-10	NSW	2	Z_o	42	92	40	5	5	-	-	10	10	2100	1	*
Croydon ...	29·6	-10	NSW	3	m	43	85	39	4	5	-	-	10	10	1800	1	*
S. Farnborough	29·9	-8	WSW	3	o/f+	41	92	39	3	5	-	-	10	10	2000	1	*
Boscombe Down	30·1	-8	NW	2	z_p	43	92	41	6	5	-	-	10	10	1300	0	*
Thorney Island	30·4	-10	-	0	o/f+	41	97	40	3	5	-	-	10	10	1800	1	*
Lympne ...	30·0	-8	W	2	m	38	97	37	4	5	-	-	10	10	1800	1	2
Manston ...	29·0	-6	WS	3	m	39	92	37	4	5	-	-	7-8	7-8	2600	1	*
Shoeburyness ...	28·8	-8	W	3	m	40	92	39	4	-	7	-	0	4-6	1200	1	*
Felixstowe ...	27·9	-6	WSW	3	Z_o	41	92	39	5	5	-	-	9	9	2300	0	3
Gorleston ...	28·9	-6	WNW	3	Z_o	44	85	39	6	5	-	-	4-6	4-6	1000	0	2
Mildenhall ...	27·7	-2	SW	3	Z_o	43	92	41	5	5	-	-	10	10	2000	0	*
Cranwell ...	26·5	+2	WNW	3	Z_o	45	97	44	5	5	-	-	7-8	7-8	2500	0	*
Birmingham ...	28·9	0	W	3	id	46	92	43	6	6	-	-	10	10	800	1	*
Upper Heyford	29·3	-4	WS	3	c	44	92	41	6	5	-	-	10	10	2500	1	*
Ross-on-Wye	29·7	-4	WS	2	id	46	92	44	7	5	-	-	10	10	2000	1	*
Hartland Point	32·0	+2	WNW	2	id	45	97	45	6	5	-	-	9+	9+	800	1	3
Bristol ...	30·9	+2	WSW	3	Z_o	45	92	43	6	5	-	-	10	10	1700	1	*
Portland Bill ...	30·6	-6	NW	3	o	46	92	44	7	5	-	-	10	10	2500	*	4
Plymouth ...	32·6	0	NW	1	m/d	46	92	44	4	5	-	-	7-8	10	1500	1	1
The Lizard ...	32·4	0	WNW	2	d	46	92	44	5	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	33·7	0	N	2	c	46	92	44	7	5	-	-	10	10	800	1	2
Guernsey ...																	
Pembroke ...	31·6	-2	WNW	3	c	49	92	47	7	5	-	-	9+	9+	1500	1	3
Holyhead (Valley)	30·1	-2	WNW	3	c	48	85	43	7	8	-	-	9+	9+	4000	1	2
Chester (Sealand)	28·2	0	WNW	4	c	48	75	41	7	8	-	-	9+	9+	2000	0	*
Manchester ...	27·7	-2	WNW	4	Z_o	45	92	43	5	2	6	-	4-6	7-8	2400	1	*
Spurn Head ...	25·5	+2	WNW	5	Z_o	44	92	42	6	-	-	-	0	0	-	1	3
Catterick (Sc.) ...	25·2	-4	WSW	4	b-bc/pr	44	85	40	7	2	-	-	2-3	2-3	2500	1	*
Tynemouth ...	23·7	0	W	2	Z_o	45	75	38	5	2	-	-	2-3	2-3	2500	0	3
St. Abbs Head	19·4	-6	WSW	5	bc	44	85	39	7	4	-	-	4-6	4-6	2500	0	4
Leuchars ...	20·0	+2	WSW	5	bc	44	75	37	8	5	-	-	4-6	4-6	2500	1	*
Renfrew (Abbotsl.)	23·2	+2	WNW	5	pr	45	75	38	7	8	7	-	4-6	7-8	600	1	*
Eskdalemuir ...	23·5	+2	WNW	4	bc	41	75	33	8	8	-	-	4-6	4-6	1800	1	*
Point of Ayre ...	26·8	0	NW'N	5	c/pr	47	85	43	8	9	-	-	9	9	1600	1	4
Tiree	25·3	+8	WNW	6	b-bc	43	85	38	7	8	6	-	2-3	2-3	2000	1	3
Stornoway ...	19·1	+8	W	6	phr	40	75	34	7	3	-	-	7-8	7-8	1200	2	4
Dalwhinnie ...	20·0	+2	WNW	3	bc	38	75	30	7	8	-	-	4-6	4-6	2500	1	*
Aberdeen ...	17·9	-4	WNW	5	b/pr	43	65	33	8	5	-	-	1	1	2500	1	*
Wick ...	15·5	+6	WNW	7	b/pr	38	97	38	8	3	-	-	9	9	1500	1	*
Sumburgh ...	07·6	-2	W'N	6	phr	41	85	36	8	3	-	-	9	9	900	1	5
Blacksod Point	32·7	+12	WNW	4	bc/pr	46	85	42	7	9	-	-	4-6	4-6	1500	1	3
Malin Head ...	27·5	+8	NW	5	pR	45	75	38	8	8	-	-	4-6	4-6	1500	2	4
Aldergrove ...	29·0	+6	W	4	b-bc	43	85	38	8	5	-	-	2-3	2-3	2000	1	*
Birr Castle ...	31·6	+8	WNW	1	c-bc	46	85	42	8	8	-	-	4-6	4-6	1500	2	4
Valentia Obsy.	34·7	+10	N'W	4	id	47	92	45	6	5	-	-	9+	9+	1200	1	3
Roches Point	33·2	+6	NW	4	id	48	92	47	6	5	-	-	9	9	800	1	3

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 28th.... (39)	Weather. 13h.–18h. 28th... (40)	Weather. 18h. 28th to 1h. 29th 30 (41)	Weather. 1h.–7h. 29th 30 (42)
London (Kew)	d_o m m_o	cm$_o$	cb ec m_o	cb cm$_o$
Croydon ...	c d_o d_o b m c m	cm	cmbm$_o$ wc mc mbm cm wb m$_o$	
S. Farnborough	cm$_o$ md_o	cm d m$_o$ w c fwb$_o$ cb cm$_o$	b cb m$_o$ b m$_o$	
Boscombe Down	o m$_o$ d_o d_o cm$_o$	cm$_o$	cm$_o$ bc m$_o$ b m$_o$	bc m$_o$ cm$_o$ b m$_o$
Thorney Island	cmd_o	cid$_o$ of	bm w c m w	bc m$_o$ b m$_o$
Lympne ...	o m$_o$ o m	om	oc bm	bm f f w x
Manston ...	cm$_o$	cm o m	bc bc m$_o$	cb c m
Shoeburyness ...	cm$_o$	cb cm$_o$	bcm	br m$_o$ bw
Felixstowe ...	o m$_o$ bc m$_o$	bc m c m$_o$ c m$_o$ b c m$_o$	bc x m b m$_o$	
Gorleston ...	bcc	cb c z$_o$	bc b z w	bm b x
Mildenhall ...	cm$_o$ bc m$_o$	bc bc m$_o$	cm$_o$ b m$_o$ b c m$_o$	bc m$_o$ b m$_o$ w
Cranwell ...	c m b c m$_o$	cm$_o$	bm$_o$ bc m$_o$	bc m$_o$ b c m$_o$
Birmingham ...	c	coid$_o$	obc	bc
Upper Heyford	cd_o d_o o	cm$_o$	oi$_o$ id$_o$ bm$_o$	bc m$_o$ bbc
Ross-on-Wye	c	c	d_o cbc	cbc
Hartland Point	c id$_o$	ciD	cid$_o$	bc cbc
Bristol ...	o m$_o$ em$_o$	cm$_o$	c z$_o$ o	bc m$_o$ cm$_o$
Portland Bill ...	o	o	c	bcc
Plymouth ...	bm$_o$ id$_o$ m	cm$_o$ cm d	bm$_o$ id$_o$	bc
The Lizard ...	o m$_o$	mc id d	cid m c	cbc
Scilly (St. Mary's)	c	cid$_o$ c	cm id c	c
Guernsey ...				
Pembroke ...	c	c	bc c q	bc q
Holyhead (Valley)	c d_o o	c	cbbc	bc p r$_o$
Chester (Sealand)	c id$_o$ e	cd$_o$ d m$_o$	bc p r c	bc p r c
Manchester ...	cm$_o$ d_o d_o	cd$_o$ d m$_o$	pr$_o$ bc cm$_o$	pr p r m$_o$
Spurn Head ...	cm$_o$	bm$_o$	b	bc
Catterick (Sc.) ...	c	cbc c p r$_o$	bc bm$_o$	b
Tynemouth ...	b c c q	bc q m$_o$	bc m o b	bbc
St. Abbs Head	b c c bc	bc	cm	cbc
Leuchars ...	bcm$_o$ bc	ccy cir$_o$	bc bc	bcb
Renfrew (Abbotsl.)	c p r e p$_o$	c p r p r$_o$	bc p r o b	cp r$_o$ bcb
Eskdalemuir ...	r o p r$_o$ pc	cbc pr	bc	b
Point of Ayre ...	c b c	cir$_o$ c	pr	cp r b
Tiree	b c c p r$_o$ bc	cb c p r$_o$	c p r bc	bb cb c p r bc
Stornoway ...	c p r bc	bc p h r b	cb c p h r c	bc c p r h
Dalwhinnie ...		c p r bc		cb c p s
Aberdeen ...	c i r$_o$	c p r o bc q	bc b q	bb c p s q b
Wick ...	c i r$_o$ bc c p r$_o$	c p r o b	bc p b bc f h	bc p h bc g m
Sumburgh ...	c p r bc	bc p s s h p$_o$	s h bc	p s h bc
Blacksod Point	c	pr	bc	bc
Malin Head ...		pr	pr	pr
Aldergrove ...	d_o d_o m c bc	bc b	bb cc p r o b	cb c c p r$_o$
Birr Castle ...	d	pr		bc
Valentia Obsy.	f	d	d	c
Roches Point	c	d	d	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 30th December 1943

Districts.	
1 S.E. England	Moderate to fresh northwest winds, moderating; fair, apart from scattered showers in the west today, and a few showers on east coast tonight; rather cold, with some ground frost tonight.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13A W. Scotland ...	Fresh to strong northwest winds, moderating and backing; rather frequent thundery showers of rain, hail, sleet and snow, becoming fair tomorrow; very cold, with local frost in north, and ground frost tonight in sheltered districts.
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	
17 N.W. Ireland	Light to moderate northwest winds, backing; scattered showers in north and west at first, becoming fine generally tonight; rather cold, with frost inland tonight.
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

An extensive anticyclone is centred off Southwest Ireland, and a ridge to Iceland is moving east; there will be thundery showers of rain hail sleet and snow at first in the north, and scattered showers in western districts; apart from a few showers tonight on east coast; weather will be fine over much of England and South Scotland; very cold in north with local frost; ground frost elsewhere tonight.

FURTHER OUTLOOK

Fine and rather cold over most of British Isles, but rain reaching northwestern districts.

Forecasts issued at 10·30

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

7h. Thursday 30th December 1943.

1026 1028 1030 1032 1034 1036 1038

1024 1022 1020 1018 1016 1014 1012 1010 1008 1006

10° 5° E

60° 55° 50°

10° 5° W.

LOW

HIGH

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

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

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

Mb In.

1050 1040 1030 1029 1020 1010 1000 990 980 970 960 950 940 930

Pt 524/4582 Wt 8091/8 a 545 Gp 548/2 1440 12/43

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Thursday 30th December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

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

Thursday 30th December 1943 — No 29988

OBSERVATIONS at 7 hr. G.M.T. 30th December

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	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon ...	290	27·9	-6	WNW	2	m	43	92	41	4	5	–	–	9	9	2000
	S. Farnborough	226	28·4	-2	SW	3	m	41	97	40	4	5	–	–	4-6	4-6	3000
	Boscombe Down	417	28·2	-14	NW	4	Zo	42	97	41	6	–	–	–	0	0	–
	Thorney Island	10	28·8	-6	NW	1	m	41	97	40	4	5	–	–	10	10	1500
	Lympne ...	341	28·1	-6	NW	2	m	38	97	37	4	5	–	–	4-6	4-6	2700
	Manston ...	154	26·8	-8	NW	3	m	41	92	39	4	5	–	–	7-8	7-8	2800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	26·4	-4	WSW	3	Zo	40	97	39	6	5	–	–	4-6	4-6	4000
	Gorleston ...	5	25·2	-6	WNW	3	m	41	92	39	4	–	–	–	0	0	–
	Mildenhall ...	15	26·0	-6	WSW	3	Zo	39	92	37	6	5	–	–	2-3	2-3	2500
	Cranwell ...	203	25·6	+2	W	3	m	42	85	39	4	5	–	–	4-6	4-6	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·3	+2	NNW	2	Zo	40	92	38	6	5	–	–	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	31·2	0	NNW	3	c-bc	47	75	41	8	4	–	–	7-8	7-8	2000
	Bristol ...	209	30·0	-2	WNW	2	Zo	42	85	37	6	5	–	–	2-3	2-3	3500
	Portland Bill ...	32	29·3	-10	NE	4	c-bc	44	85	39	7	5	–	–	7-8	7-8	5000
	Plymouth ...	86	31·6	-6	NW	2	bc/d	46	97	45	7	5	–	–	4-6	4-6	2500
	The Lizard ...	240	32·0	-4	WNW	3	c	47	97	46	6	5	2	–	7-8	9	1500
	Scilly (St. Mary's)	163	33·0	-6	N	4	c/p	49	92	47	7	5	–	–	10	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	31·9	+2	NNW	5	c-bc q	46	75	39	8	5	–	–	7-8	7-8	2500
7	Holyhead (Valley)	32	30·0	-2	NN	4	bc	44	75	38	8	8	–	–	4-6	4-6	2700
	Chester (Sealand)	16	28·0	-2	NW	4	pr	44	75	38	7	8	–	–	4-6	4-6	1500
8	Manchester ...	230	27·6	+2	W	3	Zo	42	92	39	6	2	6	–	4-6	7-8	2200
10	Spurn Head ...	29	24·3	-4	NNW	4	b	41	85	37	7	–	–	–	0	0	–
	Catterick (Sc.) ...	192	24·6	-2	NNW	5	Zo	40	85	36	6	–	–	–	0	0	–
	Tynemouth ...	108	23·4	-2	W	4	b	42	75	34	7	–	–	–	0	0	–
11	St. Abbs Head	280	20·5	+12	W	4	c-bc	42	75	36	7	5	–	–	7-8	7-8	2500
	Leuchars ...	31	20·9	+6	W	5	bc	42	75	34	7	5	–	–	4-6	4-6	2500
12	Renfrew (Abbotsl.)	19	23·7	+4	NNW	5	b	42	75	33	7	–	–	–	0	0	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	26·7	0	NNW	6	pr	45	85	40	8	3	–	–	4-6	7-8	2500
13A	Tiree	44	26·7	+10	NW	6	bc	44	87	35	7	8	–	–	4-6	4-6	1500
13B	Stornoway ...	12	22·2	+20	NW	6	c/phr	38	75	32	7	3	–	–	9+	9+	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	18·7	+4	NNW	5	c-bc	37	75	31	9	5	–	–	7-8	7-8	2700
	Wick ...	114	16·2	+6	NW	6	bc/phr	36	97	36	7	3	–	–	4-6	4-6	1500
16	Sumburgh ..	15	11·5	+26	NW	8	bc/ps	35	75	27	8	3	–	–	4-6	4-6	1600
17	Blacksod Point	18	34·2	+6	NNW	3	b-bc	46	75	38	8	8	–	–	2-3	2-3	2500
18	Malin Head ...	84	28·3	+6	NW	6	pr	45	75	37	8	8	–	–	9+	9+	1500
	Aldergrove ...	294	29·3	-2	WNW	4	c/pr	42	85	37	7	8	–	–	9	9	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	35·9	+2	NE	4	bc/d	47	65	36	7	5	–	–	4-6	4-6	2200
	Roches Point	22	34·4	+4	NW	4	c-bc	46	85	42	8	5	–	–	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 30th December

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)
27·5	-4	NSW	2	Zo	39	85	35	5	5	–	–	4-6	4-6	2100	1	*
27·6	-2	WNW	1	Zo	40	85	37	5	5	–	–	2-3	2-3	2900	1	*
28·4	+2	N	3	Zo	36	97	35	5	5	–	–	2-3	2-3	2500	1	*
28·6	-2	NW	3	Zo	37	92	35	6	5	–	–	Tr	Tr	1500	0	*
28·6	+2	WNW	2	Zo	37	97	37	6	5	–	–	1	1	4000	1	*
26·7	-2	WSW	2	Zo/c	34	97	34	4	5	–	–	Tr	Tr	3000	3	2
25·6	-6	NW	4	m	40	85	37	4	–	–	–	0	0	–	1	*
26·1	-4	NW	3	b	39	85	36	7	–	–	–	0	0	–	1	*
24·9	-6	W	4	Zo	40	85	35	6	–	–	–	0	0	–	0	4
23·9	-2	NNW	3	b	37	85	34	7	–	–	–	0	0	–	0	2
25·1	-2	W	4	Zo	37	97	36	6	5	–	–	1	1	4000	0	*
24·9	+2	NW	3	Zo	41	75	34	5	4	–	–	1	1	2000	0	*
27·9	+2	NW	4	pr	41	85	36	6	6	7	–	2-3	3	1500	1	*
28·0	0	NW	3	bc	38	85	35	7	5	–	–	4-6	4-6	3600	1	*
28·5	0	W	3	b-bc	42	75	34	8	5	–	–	2-3	2-3	2500	3	*
31·8	+6	N	4	b-bc	45	75	39	8	4	–	–	2-3	2-3	2000	1	4
30·1	+4	WSW	3	Zo	42	85	37	6	5	–	–	7-8	7-8	3700	1	*
30·9	+12	W	4	c	45	85	40	7	5	–	–	10	10	5000	1	3
31·8	0	WNW	1	bc	43	85	40	7	5	–	–	4-6	4-6	2500	0	1
32·4	0	NNW	2	bc	43	92	41	6	5	–	–	4-6	4-6	2500	0	3
33·3	0	NNE	5	c	48	75	41	8	5	–	–	10	10	1000	1	4
32·4	+4	NNW	4	b-bc q	45	75	38	8	2	–	–	2-3	2-3	2500	1	3
30·9	+8	NW	5	b-bc/pr	43	85	38	8	8	–	–	2-3	2-3	3000	1	3
28·3	+4	NNW	4	b/pr	42	85	38	7	3	–	–	4-6	4-6	2000	1	*
27·3	+2	WNW	4	Zo	40	92	38	6	4	–	–	2-3	2-3	3000	1	*
23·6	0	WNW	6	b-bc	40	85	35	7	7	–	–	2-3	2-3	2500	1	3
24·9	+2	WNW	4	b	39	85	34	8	5	–	–	Tr	Tr	3000	0	*
24·2	+6	WNW	4	bc	39	75	31	7	2	–	–	4-6	4-6	2500	0	3
22·4	+14	W	4	b-bc	41	75	33	8	4	–	–	2-3	2-3	2500	0	4
23·7	+20	WNW	4	b	38	75	32	8	5	–	–	1	1	3000	1	*
26·1	+14	WNW	1	b	37	85	33	7	–	–	–	0	0	–	1	*
25·3	+6	WNW	3	b	35	75	27	8	7	–	–	Tr	Tr	2800	1	*
27·7	+6	NW	6	b	45	65	35	8	3	–	–	1	1	2000	1	4
28·4	+10	NNW	6	b-bc	41	85	37	7	2	–	–	2-3	2-3	1500	1	5
25·7	+18	NNW	4	phr	38	75	30	7	3	–	–	7-8	7-8	1500	2	3
24·0	+8	N	3	c-bc	33	85	28	7	5	–	–	7-8	7-8	2500	1	*
21·8	+28	NW	4	b/ps	33	92	31	8	2	–	–	1	1	2500	4	3
21·7	+20	NW	6	phr	33	92	31	6	3	–	–	7-8	7-8	1500	4	*
17·8	+26	NNW	7	bc/ps	34	85	31	8	3	–	3	4-6	4-6	1600	4	5
35·5	+8	NNW	4	bc	46	75	38	8	8	–	–	4-6	4-6	2500	1	3
29·4	+2	NW	7	bc	46	55	31	8	8	–	–	4-6	4-6	1500	2	5
30·6	+6	NNW	5	pr	41	85	37	6	3	–	–	7-8	7-8	1500	1	*
34·0	+6	NW	1	b-bc	40	85	36	8	–	4	–	0	2-3	–	1	*
37·2	+10	N.	3	c	48	65	38	8	5	–	–	9+	9+	3500	1	4
35·6	+6	NW	4	b	44	92	42	8	5	–	–	1	1	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 29th Hrs. (38)
1	London (Kew)	43	38	30	Tr	–	0·0
	Croydon ...	42	38	37	Tr	Tr	0·0
	S. Farnborough	42	35	25	Tr	–	0·0
	Boscombe Down	44	36	31	Tr	–	0·0
	Thorney Island	42	36	30	Tr	–	*
	Lympne ...	38	34	30	–	–	0·0
	Manston ...	40	40	40	–	Tr	0·0
2	Shoeburyness ...	42	39	31	–	–	0·0
	Felixstowe ...	43	39	35	–	–	2·4
	Gorleston ...	46	37	31	–	–	3·0
	Mildenhall ...	47	36	30	–	Tr	3·6
	Cranwell ...	47	45	32	–	–	1·6
3	Birmingham ...	49	40	35	Tr	Tr	0·1
	Upper Heyford	45	37	30	–	Tr	*
4	Ross-on-Wye	47	41	35	Tr	0·3	0·2
5	Hartland Point	46	44	43	0·4	0·1	0·0
	Bristol ...	46	40	40	–	–	0·0
	Portland Bill ...	46	41	*	–	–	*
	Plymouth ...	47	42	33	Tr	–	0·1
	The Lizard ...	46	42	*	0·5	0·5	0·0
	Scilly (St. Mary's)	46	45	*	Tr	Tr	0·0
	Guernsey ...						
6	Pembroke ...	49	43	*	0·3	0·3	0·0
7	Holyhead (Valley)	49	42	38	Tr	Tr	*
	Chester (Sealand)	50	42	39	Tr	0·3	0·3
8	Manchester ...	47	40	36	1	1	*
10	Spurn Head ...	46	40	*	–	–	1·2
	Catterick (Sc.) ...	50	39	31	Tr	–	1·1
	Tynemouth ...	49	38	33		–	*
11	St. Abbs Head	50	39	*	–	–	*
	Leuchars ...	50	37	33	Tr	–	3·5
12	Renfrew (Abbotsl.)	49	37	28	0·3	0·3	2·3
	Eskdalemuir ...	46	35	30	0·6	–	1·8
	Point of Ayre ...	50	42	*	0·2	2	1·7
13A	Tiree	47	38	36	1	2	1·0
13B	Stornoway ...	45	34	31	3	1	0·7
15	Dalwhinnie ...	42	31	30	1	1	0·0
	Aberdeen † ...	48	33	30	0·3	1	0·7
	Wick ...	43	32	31	2	4	*
16	Sumburgh ..	47	31	29	2	4	0·7
17	Blacksod Point	50	44	*	0·5	–	*
18	Malin Head ...	48	41	*	1	1	0·4
	Aldergrove ...	47	44	40	0·4	Tr	1·4
19	Birr Castle ...	48	39	35	1	–	0·1
20	Valentia Obsy.	50	45	39	0·6	Tr	0·7
	Roches Point	50	44	*	0·3	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 29th December — 18h. G.M.T. — 01h. G.M.T. 30th December — 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	87	81745	58786	8-	27644	57784	8-	86645	61785	3-	27645	60785
115	87	88844	95787	22	89744	95786	84	89844	35786	87	89844	65686
203												
206	86	81854	55485	30	25843	59883	30	01852	59682	9-	83646	30386
210	26	81844	57525	26	25854	58684	3-	85645	59685	2-	01844	61484
219	86	27858	58685	8-	25855	59785				36	25854	63685
230	8-	01854	59484	8-	02757	23587	8-	02856	61386	8-	25753	65483
245	50	01564	20214	5-	02854	24214	50	01863	22283	50	01862	28482
260	5-	25		80	25444	22484	50	05		50	08	
277	8-	02845	59515	86	25853	56684	3-	25744	61584	80	01843	62483
279	84	02753	24515	8-	81645	22485	8-	25774	24484	8-	02874	24414
285										10	01	
288	57	02743	23424	50	01862	20512	50	01762	22312	03	01833	25403
575	53	02765	26327	30	25854	28285	50	01861	23301	30	01854	30385
301	5-	05555	24455	8-	25753	24487	40	01763	26583	40	01763	26483
321	57	05654	22326	50	05653	26413	50	05664	26414	00	05690	26310
290	5-	02								00	00	
292				50	01854	22324	54	01761	24312	00	00730	28410
210												
614	8-	05		5-	05		8-	05		50	05	

13h. G.M.T. 29th December — 18h. G.M.T. — 01h. G.M.T. 30th December — 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	53	02845	23327	53	21755	26358				20	01754	61414
334	--	51647	29328							--	02645	24116
340	5-	02855	24367	5-	02765	28225	8-	02767	28187	81	81744	61385
136	09	05697	22327	5-	05645	22328	50	05563	24313	03	05691	57501
336	53	02		50	05							
350	5-	05666	23126	5-	05654	21328	5-	05663	22203	54	05663	24214
368	5-	05643	25358	5-	05634	24428	50	05543	24183			
379	5-	02743	26358				50	01762	28312			
390	5-	45248	20248	5-	45246	23246	00	05590	22100	5-	05655	30215
382	5-	05635	25128	5-	05658	24128	50	01762	29102	53	02754	26205
438	5-	08					50	08448	28228	5-	02	
430				--	48					50	05	
409	5-	21625	28358	56	02623	28256	5-	02767	30457	54	01754	31514

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 December
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. New 24 hours ended 7h. Max. Time
Kew ...	cdommo	cmo	cbcmo	0·3 16-20h 29th
Croydon	cdodocm	cm	cmbwbmo	Min. Time
Greenwich ...	oidof	ofcbm	cbcwbcm	0·1 3-5h 30th
Camden Square	o	c	*	
Kensington ...	odf	ofom	*	
Hampstead ...	od	bc	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...		38	30		–	0·0	*	*
Croydon ...		38	37		Tr	0·0	*	*
Greenwich ...	42	39	29	Tr	Tr	0·0	88	79
Westminster ...	43	37	29		–		94	83
Regents Park ...	43	38	32	–	–		91	87
Camden Square	42	38	29	–	–	*	*	89
Kensington ...	43	38	28	Tr	Tr			91
Hampstead ...	41	35	28	Tr	–		*	92

SECRET

Page 1

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

BRITISH SECTION

Friday, 31st December 1943

No. 29989

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

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)	28·1	0	NNW	3	z_o	45	65	35	6	1	–	–	Tr	Tr	2500
	Croydon ...	28·0	-2	W'N	4	z_o	44	65	34	5	1	–	–	4-6	4-6	2000
	S. Farnborough	28·7	-6	WNW	4	b	46	65	36	7	5	7	–	1	1	2500
	Boscombe Down	29·9	-2	NNW	3	c/pr	42	85	37	7	8	7	–	2-3	9	2000
	Thorney Island	28·9	-6	NW'W	4	b-bc	45	65	35	8	1	7	–	1	2-3	2000
	Lympne ...	26·8	-6	NNW	3	z_o	43	75	35	6	5	–	–	4-6	4-6	4000
	Manston ...	26·7	+10	NW'N	4	z_o	43	75	36	6	–	–	–	0	0	–
2	Shoeburyness ...	26·8	-4	NW	3	z_o	44	75	36	6	1	–	–	Tr	Tr	4000
	Felixstowe ...	25·6	+2	NW	4	z_o	43	65	32	6	–	–	–	0	0	–
	Gorleston ...	24·7	+10	N'W	4	bc	41	75	35	7	8	–	–	4-6	4-6	1500
	Mildenhall ...	26·2	-2	NW'W	4	z_o	43	75	35	6	–	–	–	0	0	–
	Cranwell ...	26·6	-4	NW	4	z_o	44	65	32	6	–	–	–	0	0	–
3	Birmingham ...	29·0	+4	NW	4	z_o	42	75	34	6	5	–	–	7-8	7-8	2500
	Upper Heyford	28·3	-6	NW	4	b	43	75	34	7	5	–	–	Tr	Tr	3000
4	Ross-on-Wye	30·2	+2	NNW	2	b	42	75	36	8	8	–	–	9+	9+	3000
5	Hartland Point	32·9	+2	N	4	bc	45	75	37	8	2	4	–	2-3	4-6	2000
	Bristol ...	30·9	+2	NW	3	z_o	46	65	35	6	5	4	1	1	2-3	4000
	Portland Bill ...	30·9	-4	NW	4	c-bc	46	85	42	8	2	–	–	7-8	7-8	5000
	Plymouth ...	33·3	0	NNW	4	c	46	75	39	8	2	6	–	7-8	9	2500
	The Lizard ...	34·1	+6	NW	5	c-bc	47	75	40	8	2	–	–	7-8	7-8	2500
	Scilly (St. Mary's)	35·4	+6	N'E	5	bc	49	75	40	8	8	–	–	4-6	4-6	1200
	Guernsey ...															
6	Pembroke ...	33·9	+4	WNW	4	c-bc	46	55	36	8	2	–	–	7-8	7-8	2000
7	Holyhead (Valley)	31·9	0	NNW	5	pr	46	75	37	8	8	–	–	9	9	2000
	Chester (Sealand)	30·0	+6	NNW	4	c-bc/jp	45	75	37	7	8	–	–	7-8	7-8	2500
8	Manchester ...	28·6	+2	NW'N	5	z_o	42	85	37	6	2	4	–	1	1	2500
10	Spurn Head ...	26·7	+14	NW	5	b-bc	40	75	32	6	2	–	–	2-3	2-3	1500
	Catterick (Sc.)...	27·2	+4	WNW	5	b	40	75	34	8	1	4	–	1	1	3000
	Tynemouth ...	26·8	+4	WNW	3	z_o	40	55	27	6	2	–	–	2-3	2-3	2500
11	St. Abbs Head	24·1	-4	WNW	5	bc	39	75	30	8	1	4	–	4-6	4-6	3500
	Leuchars ...	26·8	+6	WNW	4	c-bc	39	75	31	8	8	–	1	7-8	7-8	3000
12	Renfrew (Abbotsl.)	28·7	+10	WNW	4	b-bc	41	75	32	8	8	3	–	2-3	2-3	3000
	Eskdalemuir ...	27·6	+4	W'N	3	b-bc	38	75	29	8	7	3	–	2-3	2-3	2500
	Point of Ayre...	30·0	+2	N	5	b-bc	44	75	38	8	3	–	–	2-3	2-3	2000
13A	Tiree	30·4	-2	NW	4	bc	42	75	35	9	4	6	–	2-3	4-6	2000
13B	Stornoway ...	28·1	+4	NW	2	bc/ps	36	85	33	8	9	6	–	4-6	4-6	1500
15	Dalwhinnie ...	28·5	+10	NNW	2	bc	32	85	29	8	8	–	–	4-6	4-6	2500
	Aberdeen ...	24·5	+14	NW	3	b-bc	34	85	29	8	8	–	–	2-3	2-3	2500
	Wick ...	24·9	+10	WNW	5	bc/ps	34	92	33	7	3	–	3	4-6	4-6	2000
16	Sumburgh ...	19·9	+14	NW'N	8	bc/ps	33	92	30	8	3	–	–	4-6	4-6	1600
17	Blacksod Point	36·9	+6	NW	4	c-bc/pr	47	85	43	8	9	5	–	4-6	7-8	1500
18	Malin Head ...	32·1	+10	N'W	7	pr	43	85	39	8	8	–	–	4-6	4-6	1500
	Aldergrove ...	32·2	+4	NNW	3	c-bc/pr	41	92	39	8	8	–	–	7-8	7-8	1200
19	Birr Castle ...	35·5	0	NW	2	c-bc	47	75	40	8	5	–	–	7-8	7-8	2500
20	Valentia Obsy.	38·7	+2	NNW	3	c	49	75	41	8	5	–	–	9+	9+	4000
	Roches Point	37·1	-2	NNW	4	c-bc	46	85	42	8	5	3	–	4-6	7-8	2500

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

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)
29·1	+12	NW	3	z_o	41	65	32	5	–	–	–	0	0	–	1	*
29·2	+14	NW	2	bf	40	75	33	3	–	–	–	0	0	–	1	*
29·9	+12	W'N	3	b	39	85	34	7	–	4	1	Tr	Tr	10000	1	*
30·7	+10	NW'N	4	b-bc	38	85	33	8	5	–	1	1	2-3	4000	0	*
30·1	+16	WNW	3	b-bc	40	75	34	7	–	3	2	r	2-3	8000	1	*
28·0	+10	WNW	3	m	34	92	32	4	–	–	–	0	0	–	0	51
27·2	+6	NNW	4	z_o	39	75	32	6	–	–	–	0	0	–	1	*
27·8	+10	NW	3	z_o	37	85	32	5	5	•	–	2-3	2-3	3500	1	*
26·2	+6	WNW	4	z_o	39	85	29	6	–	–	–	0	0	–	0	3
24·7	+4	NNW	5	c/ps	35	85	32	7	8	–	–	9	9	800	1	4
27·7	+14	NW'N	4	z_o	37	75	29	6	5	–	–	9	9	3500	0	*
28·2	+14	NW	3	z_o	36	85	31	6	4	–	–	2-3	2-3	2500	0	*
30·2	+4	WNW	3	z_o	38	85	34	6	5	–	–	2-3	2-3	2500	1	*
29·4	+8	NW	3	z_o	37	85	32	6	5	3	–	1	2-3	2000	1	*
31·1	+4	W	2	c-bc	40	85	35	8	5	–	–	7-8	7-8	3000	1	*
33·9	+12	NNW	4	b-bc	45	75	37	8	2	–	–	2-3	2-3	2000	1	4
32·3	+14	NW	2	z_o	38	85	34	5	–	4	–	1	1	8000	1	*
31·3	+8	WNW	3	c-bc	45	85	40	8	2	–	–	7-8	7-8	5000	1	5
34·5	+17	NW	3	z_o	43	85	39	5	5	–	–	1	1	2500	0	1
35·2	+10	NW	4	bc	42	85	37	7	2	–	–	4-6	4-6	2000	1	3
35·7	+6	N	5	c-bc	47	85	42	8	5	–	–	7-8	7-8	1200	1	4
34·8	+8	WNW	5	c-bc/q	45	75	38	8	2	–	–	7-8	7-8	2000	0	3
33·0	+10	NW	4	bc	44	75	37	7	8	6	–	4-6	4-6	2000	1	3
30·8	+14	N'W	4	z_o	41	75	35	6	5	–	–	2-3	2-3	2000		*
29·9	+14	NW'W	3	m	37	85	34	4	–	4	–	Tr	Tr	10000	1	*
27·2	+14	NW	5	bc	38	65	28	7	7	–	–	4-6	4-6	1500	0	3
28·6	+10	NW	4	bc	36	85	31	7	5	3	–	4-6	4-6	2500	0	*
28·5	+8	NNW	3	b	37	92	35	7	–	–	–	0	0	–	0	3
27·3	+14	WNW	5	b-bc	39	85	34	7	4	–	–	2-3	2-3	2500	0	4
28·2	+10	NW	3	bc	35	85	30	8	5	4	–	2-3	4-6	5000	1	*
29·8	+10	WSW	3	b-bc	36	85	31	7	8	–	1	1	2-3	2500	3	*
30·1	+24	NW'W	2	b	30	85	25	8	–	–	–	0	0	–	3	*
31·3	+14	N	4	b	43	75	36	8	4	–	–	1	1	2000	1	4
32·1	+16	NNW	4	c-bc	41	85	38	9	3	–	3	4-6	7-8	1800	1	
29·6	+14	NNW	3	c-bc	37	75	31	8	4	–	5	7-8	7-8	2500		
29·0	+8	N	2	c	33	85	30	8	8	–	–	9+	9+	2500	1	*
26·2	+12	NW	3	b	34	65	28	8	3	–	–	1	1	2500	4	3
26·2	+14	NNW	4	ps	33	97	33	8	9	–	3	4-6	4-6	2000	4	*
22·0	+10	NW	6	b-bc/ps	34	97	33	8	3	–	–	2-3	2-3	1500	1	5
37·8	+10	NW	4	pr	46	85	42	7	9	–	–	9+	9+	1500	1	3
32·9	+10	NW	4	pr	45	85	41	8	8	–	–	9	9	1500	2	4
33·4	+14	NW'N	3	c-bc/pr	40	85	36	7	8	3	2	2-3	7-8	1100	1	*
36·1	+8	NNW	1	c-bc	41	92	39	8	5	–	–	7-8	7-8	2500	1	*
39·3	+10	N	4	c	48	65	37	8	5	–	–	10	10	4000	1	3
37·5	+10	NW'N	4	b	46	85	42	8	5	–	–	1	1	2500	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 30th (39)	13h.–18h. 30th (40)	18h. 30th to 1h. 31st (41)	1h.–7h. 31st (42)
bcc bc bz$_o$	bz$_o$	bz$_o$x	bz$_o$mx
bm$_o$bc	bcz$_o$bf	bf bmbf	bfx
bcm$_o$cm bc	bz$_o$b	bm$_o$	bcbcm$_o$x
bm$_o$bcc pr$_o$	cbccb	bbcb	bcbbcb
cm$_o$bcm$_o$	bbc	b	bm$_o$cpro
bmxbcb	bz$_o$bm$_o$	bcbm	bm$_o$x
bm$_o$	bz$_o$	bcbz$_o$	bz$_o$
bxbm$_o$	bcz$_o$	bc m$_o$	bcm$_o$x
bm$_o$bz$_o$	bz$_o$	bz$_o$	bz$_o$
bbcpr$_q$	bccph$_3$	bcl	rstlcs
blbz$_o$	bz$_o$bm$_o$	cm$_o$bm$_o$	bm$_o$bm$_o$x
bm$_o$bz$_o$	bcm$_o$bm$_o$	bm$_o$	bcm$_o$
cbc	cbc	b	bbc
bcid$_o$bc	b	bcm$_o$bm$_o$	bm$_o$cpr$_o$scm$_o$
bccphc	p$_o$cbcc	cbcc	cbc
bc	bc	bc	bbc
cm$_o$bcz$_o$b	bcz$_o$pr$_o$cz$_o$	bm$_o$bcm$_o$cm$_o$cz$_o$	cpr$_o$bcm$_o$
c	bcc	bcc	cprc
bcc	cbc	bcm$_o$bcb	bcc
bcc	cb$_o$	pr$_o$bc	cpr$_o$bc
cbc	c	cbc	bcc
cq	cq	bcq	bcq
bccpr	cpr$_o$	bccpr$_o$bc	pbcbc
bcm$_o$pr	bcpr$_o$m$_o$	bcz$_o$pr$_o$	bcpr$_o$
bclam$_o$	bbcm$_o$	bm$_o$x	bm$_o$x
bcz	bc	bc	bc
b	bc	bc	bc
bcm$_o$	bcm$_o$b	bbcc	bbc
bc	bccb	cbcb	bcc
cbbcyc	cbc	bccb	bcc
bbc	bc bx	bbcbx	bcxcidom$_o$
bbc	bcvbx	bx	bbccx
cprb	bcb	bprb	bcc
bccpr$_o$	bccphbc	bcbbcpr$_o$b	bbccid$_o$
cprhbcprs	bccprhbc	cbccpr$_o$c	ccid$_o$
cpr$_o$bc	bcps$_o$c		co
bcpsqb	bps$_o$bcqb	bcps$_o$b	bcpsc
cphbcphs	cbcp$_o$ s	cpshmbcps$_o$bc	
cps	cqphs$_o$b	psshq	
pr	pr	pr	d
pr	pr	d	r
pr$_o$m$_o$bc	cpr$_o$bc	cbccpr$_o$	cpr$_o$cid$_o$
c	c	bc	
c	c	pr	c
bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 31st December 1943

Districts.	
1	S.E. England
2	E. England ...
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands ...
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Moderate or fresh northwest or west winds, strong in north later; mainly much cloud with rain or drizzle chiefly in the west; some breaks in the Southeast at first and in North Scotland later; moderate visibility becoming poor in many areas of England with local fog tonight; cold in most areas at first but milder conditions in northwest spreading Southeastwards.

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

GENERAL INFERENCE

Pressure is high to the SW of the British Isles; a trough over our NW districts: associated with a depression near Iceland is moving SE. It will be cloudy in most areas with local drizzle chiefly in the west and north. Some breaks in the SE at first. Cold at first but milder conditions spreading SE across the country.

FURTHER OUTLOOK

Little change in South; brighter temporarily in north.

Forecasts issued at 10.30

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

7h. Friday 31st December 1943.

LOW

HIGH

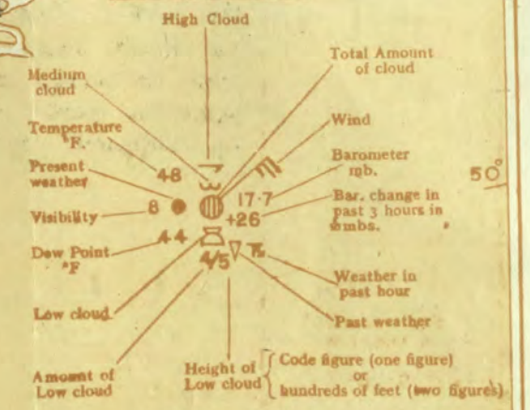
LOW

1016 1018 1020 1022 1024 1026 1028 1030 1032 1034 1036 1038 1040

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL



Scale 1.: 5,000,000

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 31st December

1943.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

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

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

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

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

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

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

BRITISH SECTION

Friday 31st December 1943

No. 29989

OBSERVATIONS at 1 hr. G.M.T. 31st December

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F (6)	Humid. % (7)	Dew Point. °F (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*
	Croydon ...	290	30·6	+2	NW	1	bf+	36	85	32	3	–	–	–	0	0	–
	S. Farnborough	226	31·3	+2	WNW	3	Zo	35	85	32	6	–	–	–	⊕	0	–
	Boscombe Down	417	31·8	+2	WNW	2	b-bc	34	97	33	7	5	–	–	2-3	2-3	3500
	Thorney Island	10	31·1	+4	NW	2	Zo	36	85	32	6	–	–	–	0	0	–
	Lympne ...	341	29·0	+2	N	2	Zo	33	85	29	6	5	–	–	2-3	2-3	3000
	Manston ...	154	28·0	+2	NNW	4	Zo	36	75	29	6	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	10	27·9	0	WNW	4	Zo	36	75	28	6	–	–	–	0	0	–
	Gorleston ...	5	26·0	+6	NW	3	Zo	36	85	33	6	8	–	–	4-6	4-6	900
	Mildenhall ...	15	28·8	+6	NNW	3	Zo	33	85	28	6	–	–	–	0	0	–
	Cranwell ...	203	29·6	+2	NW	2	Zo	34	85	29	5	5	–	–	4-6	4-6	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	31·5	+10	NW	2	Zo	31	97	30	6	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·1	0	N	4	bc	45	75	38	8	1	–	–	4-6	4-6	2000
	Bristol ...	209	32·9	0	NW	2	Zo	40	75	34	6	5	–	–	9	9	4700
	Portland Bill ...	32	32·0	+6	WNW	4	c-bc	44	85	39	8	5	–	–	7-8	7-8	5000
	Plymouth ...	86	34·9	0	N	2	b-bc	43	85	39	7	5	–	–	2-3	2-3	2500
	The Lizard ...	240	35·4	-4	NNW	2	bcjp	42	85	38	7	2	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	36·6	+2	N	5	b-bc	47	75	40	8	8	–	–	2-3	2-3	1200
	Guernsey ...	175															
6	Pembroke ...	142	35·3	0	NW	5	bcq	45	75	38	8	2	–	–	4-6	4-6	1500
7	Holyhead (Valley)	32	33·2	0	NNW	4	c-bc	44	65	34	8	8	–	–	7-8	7-8	2600
	Chester (Sealand)	16	31·3	-2	NW	4	bc	41	75	35	7	5	–	–	4-6	4-6	2000
8	Manchester ...	230	30·9	0	NNW	3	Zo	31	97	30	5	–	–	–	0	0	–
10	Spurn Head ...	29	27·5	0	NNW	5	bc	37	75	30	7	7	–	–	4-6	4-6	2500
	Catterick (Sc.) ...	192	30·0	+4	NNW	3	b	34	85	30	7	–	3	–	0	1	10000
	Tynemouth ...	108	29·1	+4	NW	4	c-bc	36	75	29	7	2	–	–	7-8	7-8	2500
11	St. Abbs Head	280	28·0	+6	NW	5	b	38	85	33	7	4	–	–	1	1	2500
	Leuchars ...	31	29·2	0	W	2	bc	36	75	29	8	5	–	–	4-6	4-6	5000
12	Renfrew (Abbotsl.)	19	30·9	+2	SSW	2	b	36	75	30	8	5	–	–	1	1	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	31·8	+2	N	5	b	42	85	37	8	4	–	–	Tr	Tr	2500
13A	Tiree ...	44	32·6	-6	NNW	3	b-bc/pr	41	92	38	8	2	–	–	2-3	2-3	2000
13B	Stornoway ...	12	29·6	-4	W	2	c/pr	37	92	35	7	8	–	–	4-6	9+	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	27·3	0	NW	4	b-bc	34	75	26	7	3	–	–	2-3	2-3	2500
	Wick ...	114	26·5	-6	NW	4	b-bc/pc	36	75	29	7	3	–	–	2-3	2-3	1200
16	Sumburgh ..	15	23·1	+2	NNW	5	psh	35	92	34	8	3	–	–	9	9+	4000
17	Blacksod Point	18	28·2	-4	NNW	3	c	47	85	42	7	5	–	–	10	10	1500
18	Malin Head ...	84	33·4	-2	NNW	3	pr	45	75	38	8	8	–	–	7-8	9+	1500
	Aldergrove ...	294	34·3	0	NW	2	c/pr	40	92	38	7	8	–	–	10	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	39·8	-2	N	3	c	47	10	40	8	5	–	–	9+	9+	3500
	Roches Point	22	38·8	+2	NNW	4	b-bc	43	[illegible]	41	8	5	–	–	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 31st December

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)	30·9	+2	NW	2	m	33	85	29	4	5	–	1	Tr	1	2500	1	*
	Croydon ...	31·3	+6	NW	1	bf	31	97	30	3	–	4	–	0	1	–	0	*
	S. Farnborough	31·7	+6	NNW	2	Zo	32	97	31	5	5	–	–	4-6	4-6	4500	3	*
	Boscombe Down	33·2	+6	NW	4	b	35	92	33	7	5	–	–	1	1	4000	0	*
	Thorney Island	31·5	+2	NNW	2	pr	37	85	34	7	5	–	–	4-6	9+	2500	1	*
	Lympne ...	30·1	+6	NNW	2	Zo	30	85	27	5	–	1	–	0	2-3	–	1	2
	Manston ...	28·7	+4	NNW	4	Zo	34	85	29	6	–	4	1	0	1	–	1	*
2	Shoeburyness ...	29·6	0	NW	2	Zo	32	85	29	6	5	–	–	2-3	2-3	2000	0	*
	Felixstowe ...	28·8	+6	WNW	4	Zo	33	75	27	6	5	–	–	1	1	4000	0	4
	Gorleston ...	26·7	+2	NW	3	c-bc/s	34	85	31	6	8	–	–	7-8	7-8	800	7	3
	Mildenhall ...	29·2	+6	WNW	3	Zo	29	92	27	6	5	–	–	1	1	4000	3	*
	Cranwell ...	29·7	+4	NW	3	Zo	32	85	27	5	4	–	–	1	1	2500	0	*
3	Birmingham ...	32·0	+8	NNW	2	Zo	35	85	31	6	–	1	–	0	4-6	–	1	*
	Upper Heyford	31·9	+10	NNW	2	Zo	33	92	31	6	5	–	–	Tr	Tr	2500	1	*
4	Ross-on-Wye	32·5	+4	SW	1	c	35	85	32	8	5	–	–	9+	9+	3000	1	*
5	Hartland Point	34·2	+4	NNE	4	bc	45	85	39	8	1	4	*	2-3	4-6	2000	0	4
	Bristol ...	33·3	-2	NNW	2	Zo	39	75	32	6	5	4	–	2-3	2-3	5000	1	*
	Portland Bill ...	32·5	+4	N	3	c-bc	44	92	42	8	5	–	–	7-8	7-8	4500	1	3
	Plymouth ...	34·9	0	NW	1	c-bc	43	85	39	7	5	4	–	4-6	7-8	2500	0	1
	The Lizard ...	35·0	0	NSW	4	bc	42	92	40	7	2	–	–	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	36·3	-2	N	5	c-bc	47	75	40	8	8	–	–	7-8	7-8	1200	1	5
	Guernsey ...																	
6	Pembroke ...	34·9	-2	N	5	bcq	45	75	37	8	2	–	–	4-6	4-6	1500	0	3
7	Holyhead (Valley)	33·6	-2	NW	4	c	44	85	39	7	5	–	–	9	9	1900	1	2
	Chester (Sealand)	31·8	0	N	1	b-bc	39	85	34	7	5	–	–	2-3	2-3	2500	0	*
8	Manchester ...	31·4	+2	NW	1	m	30	97	29	4	4	–	–	2-3	2-3	2500	3	*
10	Spurn Head ...	28·2	+2	NNW	6	b-bc	36	85	32	7	1	–	–	2-3	2-3	4000	0	4
	Catterick (Sc.) ...	29·6	-6	NNW	3	c-bc	36	75	28	7	–	7	–	0	7-8	–	0	*
	Tynemouth ...	28·5	-8	NW	4	bc	35	75	26	7	2	–	–	4-6	4-6	2500	3	4
11	St. Abbs Head	26·8	-10	W	4	c	40	75	31	7	5	–	–	9+	9+	2500	0	4
	Leuchars ...	27·8	-6	W	2	c	38	75	32	7	5	1	–	4-6	9	5000	1	*
12	Renfrew (Abbotsl.)	29·6	-10	W	2	ido	42	85	37	6	5	–	–	10	10	3300	1	*
	Eskdalemuir ...	29·5	+12	NNW	3	c	35	85	31	8	5	4	–	7-8	9	1100	3	*
	Point of Ayre ...	31·5	-8	NNW	4	c	46	85	40	8	9	–	–	9+	9+	2000	1	4
13A	Tiree ...	28·9	-30	WSW	4	dodo	47	97	47	7	5	–	–	10	10	1500	1	3
13B	Stornoway ...	25·0	-34	SW	3	ido	41	97	40	7	5	–	–	7-8	7-8	1300	1	2
15	Dalwhinnie ...	27·0	-10	NNW	1	o	37	85	32	7	5	–	–	10	10	2500	8	*
	Aberdeen † ...	25·8	-12	WNW	3	c	37	85	32	7	5	–	–	10	10	4000	4	2
	Wick ...	24·3	-18	NNW	2	c	35	85	32	7	5	2	–	4-6	10	1500	6	*
16	Sumburgh ..	21·9	-10	NW	4	c	37	75	28	8	3	–	–	9	9	2500	4	4
17	Blacksod Point	26·8	-10	W	4	c/d	47	92	45	7	6	–	–	9+	9+	1500	1	3
18	Malin Head ...	31·4	-18	WNW	4	ID	48	97	48	5	–	2	–	10	10	800	2	4
	Aldergrove ...	33·2	-10	WN	1	ido	42	97	41	7	5	–	–	10	10	1200	1	*
19	Birr Castle ...	36·6	-6	WNW	1	b-bc	35	97	35	8	5	–	–	2-3	2-3	2500	1	*
20	Valentia Obsy.	39·5	-2	NW	3	c	48	75	40	8	5	–	–	10	10	3500	1	3
	Roches Point	37·6	-12	NNW	4	bc	44	82	42	8	5	–	–	4-6	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Temperatures. Min. Night 18h–7h °F (34)	Temperatures. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 30th Hrs. (38)
1	London (Kew)	45	32	20	–	Tr	4·0
	Croydon ...	44	29	25	–	–	3·9
	S. Farnborough	46	30	17	Tr	–	5·0
	Boscombe Down	45	33	29	Tr	–	2·0
	Thorney Island	46	32	26	Tr	–	*
	Lympne ...	43	37	32	–	Tr	5·7
	Manston ...	43	34	32	–	–	6·3
2	Shoeburyness ...	44	31	25	–	–	5·2
	Felixstowe ...	43	33	30	–	–	5·8
	Gorleston ...	43	33	30	1	6	4·0
	Mildenhall ...	43	28	20	–	–	5·2
	Cranwell ...	44	36	26	–	–	4·9
3	Birmingham ...	42	34	27	–	–	2·1
	Upper Heyford	43	30	24	–	Tr	*
4	Ross-on-Wye	45	35	26	0·3	–	1·8
5	Hartland Point	46	42	42	–	–	5·2
	Bristol ...	47	35	*	Tr	1	4·6
	Portland Bill ...	46	44	*	–	0·1	*
	Plymouth ...	48	40	30	–	–	4·3
	The Lizard ...	49	40	*	–	0·5	5·1
	Scilly (St. Mary's)	49	46	*	0·3	–	4·2
	Guernsey ...						
6	Pembroke ...	47	42	*	–	–	3·7
7	Holyhead (Valley)	47	43	39	Tr	Tr	*
	Chester (Sealand)	45	38	33	0·1	0·1	2·9
8	Manchester ...	43	29	16	–	–	*
10	Spurn Head ...	40	34	*	–	–	4·7
	Catterick (Sc.) ...	41	33	25	–	–	5·8
	Tynemouth ...	40	33	30	–	–	*
11	St. Abbs Head	41	37	*	–	–	*
	Leuchars ...	43	34	33	–	–	4·9
12	Renfrew (Abbotsl.)	41	34	22	–	Tr	4·7
	Eskdalemuir ...	39	27	19	–	–	5·6
	Point of Ayre ...	45	41	*		0·6	1·8
13A	Tiree ...	43	40	36	0·5	0·2	3·0
13B	Stornoway ...	39	35	28	1·	0·1	1·2
15	Dalwhinnie ...	33	30	25	1	–	0·7
	Aberdeen † ...	36	32	23	0·3	0·3	3·3
	Wick ...	36	32	31	3	2	*
16	Sumburgh ..	37	33	29	0·4	0·1	0·1
17	Blacksod Point	48	44	*	0·4	0·3	*
18	Malin Head ...	48	43		2	1	0·0
	Aldergrove ...	43	39	34	2	1	0·7
19	Birr Castle ...	48	35	29	–	–	4·0
20	Valentia Obsy.	49	45	39	–	0·2	0·1
	Roches Point	48	43	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 30th December: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 31st December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	3-	27744	61584	3-	27754	26784	3-	05645	28685	57	05644	27327
115	37	02844	65587	57	02844	32427	54	02854	28525	52	63744	24367
203										5-	03	
206	36	83854	26285	36	83844	26486	30	01863	24413	8-	02857	22327
210	36	27854	61585	47	02855	28328	47	01864	26424	4-	02868	22328
219	86	02855	30526	86	01854	30484				5-	21748	26558
230	8-	25954	28384	88	01853	28483	8-	02854	30384	5-	52648	20288
245	80	01941	27301	86	02963	25305	50	01864	26214	82	02754	26217
260		01743	24213	54	05		50	05		00	05	
277	3-	02854	30585	8-	02857	29487	80	01753	30313	5-	51748	25218
279	23	01853	26213	04	01791	26211	00	00790	26200	5-	01761	22214
285										50	02	
288	27	17761	59512	20	17452	29382	00	08490	26310	03	01783	25313
575	36	10863	30385	30	25754	30184	30	25754	30184	62	51644	61388
301	44	01862	26413	40	01763	30313	00	00790	28400	40	01763	30113
321	00	05690	*8300	03	05690	28314	50	05651	28311	04	05690	28301
299		02735	28415				80	02				
292	20	01852	26402	50	02863	30423	50	01752	28222	50	01763	26313
310												
614	03	05		43	05		00	05		04	05	

III	13h. G.M.T. 30th December: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 31st December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333				27	02753	63485	30	81754	34485	3-	01754	35384
334	--	27636	29287	--	27634	28317						
340	54	01742	63482	50	01761	26111	5-	02747	24117	04	05592	26302
136	86	01763	60514	40	01763	28513	50	01773	61513	50	01763	28414
230	10	01764	28414							30	05	
350	50	05661	61401	00	05690	26300	00	05590	24200	50	08462	26302
368	84	25854	28384	80	02754	26384	40	01763	24313	40	01763	30313
379				50	01762	28313	50	01764	28104	04	01790	28301
390	10	05651	28301	40	05554	28215	50	05673	28203	03	05690	28301
382	54	01772	30423				00	00790	00000	8-	25751	31281
438	10	05663	28413							10	05663	28413
430				04	01792	29313	00	00996		5-	02	
409	50	01854	30624	50	01854	62414	20	22754	30464	5-	02866	31226

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 31st December

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 solid impurity per cubic metre.
Kew ...	bccbcbzo	bzo	bzomx	Kew 24 hours ended 7h. Max 57th 31st
Croydon ...	bmobc	bczobf	bfbmbfx	
Greenwich ...	bcbmo c	bmo b	bcbxm	
Camden Square ...	bcmbc	bc	*	0·3
Kensington ...	bc	bcx	bc	
Hampstead ...				0· Min 0·4th 31st

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...		32	20		Tr	4·0	*	*
Croydon ...		29	25		–	3·9	*	*
Greenwich ...	44	33	26	–	–	2·6	63	71
Westminster ...	46	32	25	–	–		71	89
Regents Park ...	45	31	22	–	–		71	89
Camden Square ...	45	32	25	–	–	*	*	81
Kensington ...	46	33	23	Tr	–		78	86
Hampstead ...	43	30	23	–	–		*	39