M.O FORM 2373

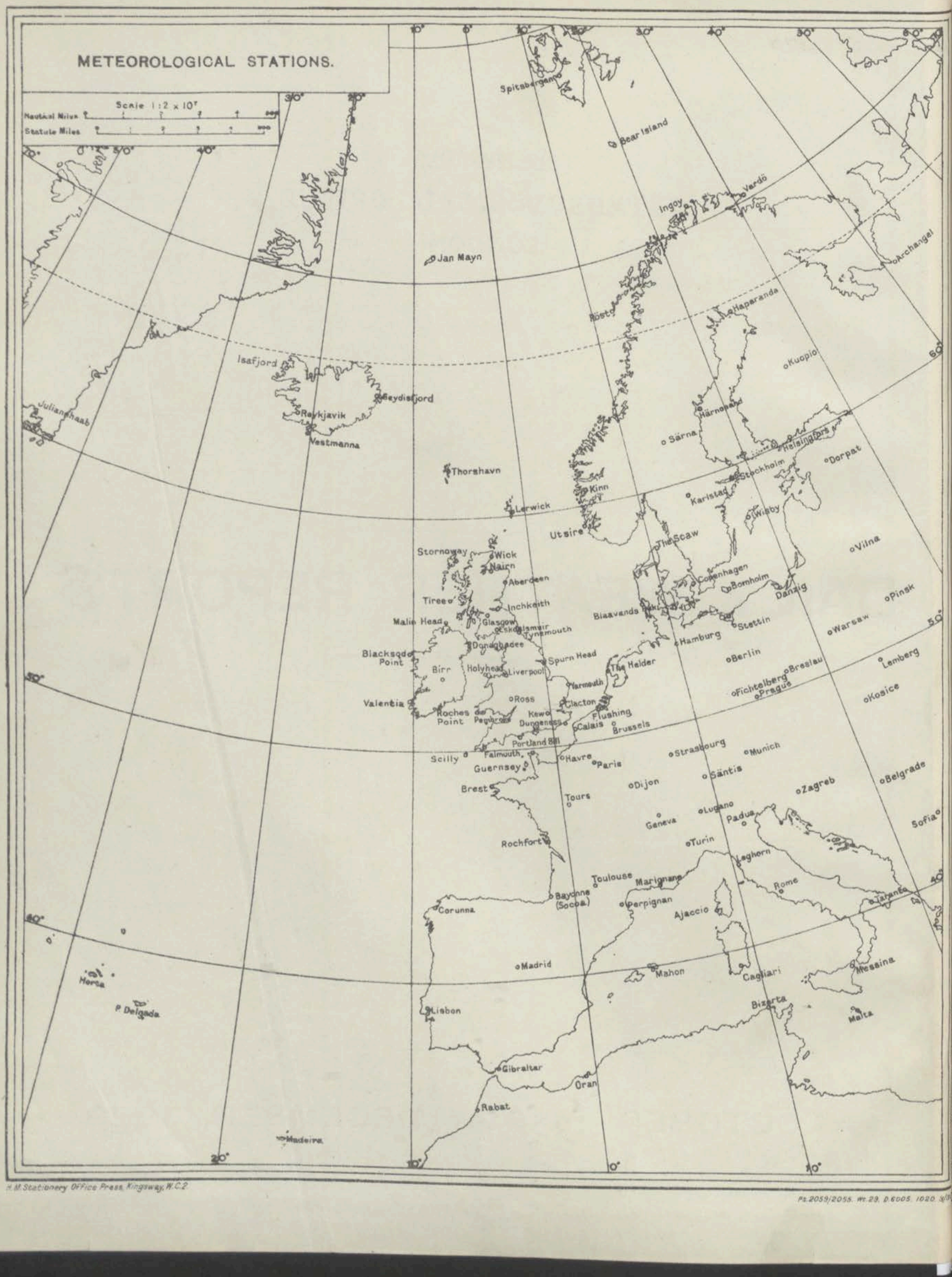
AIR MINISTRY.

METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

1ST OCTOBER TO 31ST DECEMBER, 1929

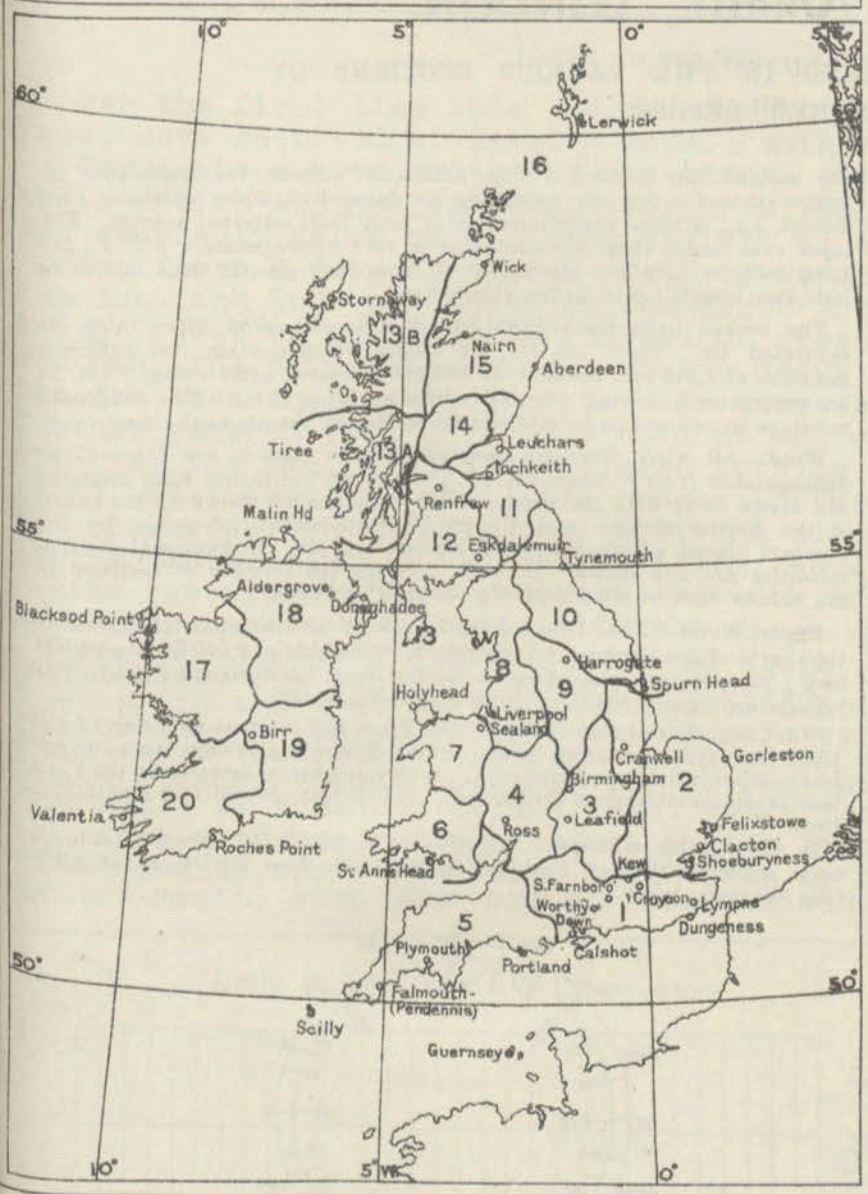


H.M. Stationery Office Press, Kingsway, W.C.2.

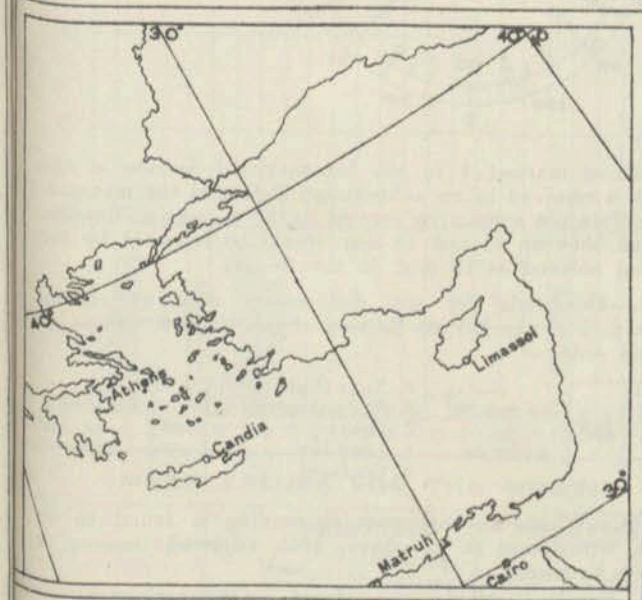
Ps.2059/2055. Wt.29. D.6005. 1020. 3/

188/5

FORECAST DISTRICTS AND BRITISH STATIONS



STATIONS USED FOR UPPER AIR SUPPLEMENT.



BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy. d drizzle.
e wet air. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
p thick fog " less than 200 m.
g gloomy. jp precipitation within sight of station.
b passing showers. q squally.
r rain. s snow. rs sleet. t thunder.
u ugly, threatening. v unusual visibility. w dew. x hoar frost.
y dry air. z dust haze; the turbid atmosphere of dry weather.

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; i = intermittent; - = "decreasing"; + = "increasing"; h(r) = "hail" or "rain and hail";

Capital letters indicate intensity, suffix o indicates slight; and repetition of letters continuity, thus:—

R = heavy rain.
rr = continuous moderate rain.
$r_o r_o$ = continuous light rain.

FORECAST DISTRICTS

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

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

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

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

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

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

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

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

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

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

11. *Scotland, S.E.*
    Roxburgh.
    Selkirk.
    Peebles.
    Berwick.
    Haddington.
    Edinburgh.
    Linlithgow.
    Clackmannan
    Kinross.
    Fife.
    Forfar.

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

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

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

14. *Mid. Scotland.*
    Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

AIR MINISTRY.

METEOROLOGICAL OFFICE, LONDON.

NOTES ON THE INFORMATION CONTAINED IN THE VARIOUS SECTIONS OF THE DAILY WEATHER REPORT.

Stations.—*Croydon.* From 1st May, 1928, the wind records at Croydon have been obtained from a new site, the anemometer vane being 104·5 feet above ground level whereas formerly in the old site the height was 40 feet. Since 15th February, 1929, the velocity as measured from the anemometer record has been reduced in the ratio 6 : 5 before conversion to the Beaufort number by the table of equivalents in general use in this country which is applicable to anemometers having a height of 40 feet.

Guernsey.—The observations have been taken at the station of the States Meteorological Service in St. Peter Port from June 10th, 1929. Formerly the readings at 7h., 13h., and 18h. were taken at Fort George, those at 0h. being from St. Peter Port.

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

Valentia. The observations at 1 a.m. are taken at the Post Office Wireless Station on Valentia Island. Those at all other hours at the Observatory near Cahirciveen on the mainland.

Heights of Stations.—The heights of British Stations above M.S.L. published in the British Section of the Daily Weather Report refer to the plot of ground on which the rain gauge is situated.

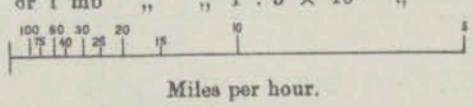
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section.

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 in the Daily Weather Report the speed of the upper wind is about 12 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 24 m.p.h.

The scale below can be used with both the International and the British Sections. If the distance between consecutive isobars is measured along the rule from the left-hand extremity the geostrophic wind is shown by the scale in miles per hour.

GEOSTROPHIC WIND SCALE FOR

4 mb isobars on $1 : 2 \times 10^7$ Charts.
or 2 mb " " $1 : 10^7$ "
or 1 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 circles which indicate the positions of the stations.

In ship reports published on page 3 of the British Section of the Report sea temperature is given below air temperature and is preceded by the word "Sea."

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

$x = f - \cdot 444\,(t - t')$ for wet bulb readings above 32° F.

$x = f - \cdot 400\,(t - t')$ for wet bulb readings below 32° F.

where x is the vapour pressure in mb.;

f the saturation vapour pressure at the temperature of the wet bulb;

t the dry bulb temperature; and

t' " wet " "

The tables used for calculating humidities from the readings of the dry and wet bulb thermometers on aeroplanes, are based on a formula similar to the above, but allowance is made for the variation of barometric pressure with height and for the increased ventilation of the thermometers.

Upper Air Temperature.—The British observations are made normally, one at 1,000 feet above the level of the aerodrome, and the remainder at *pressures* of 950, 900, 850, 800, etc., millibars. Heights are then computed and, apart from instrumental error, are correct heights: they do not require modification for differences of temperature from normal as these are allowed for in the computation. The values are shown graphically and in tabular form in the Upper Air Supplement. On the diagram, temperatures are given in degrees Fahrenheit and Absolute. The oblique line marked "Dry Adiabatic" shows the lapse rate of temperature for dry air ascending or descending under adiabatic conditions, *i.e.*, without communication of heat from external sources. The lapse rate under these circumstances is very approximately 5·5° F. per 1,000 feet, or 10°a per kilometre. A lapse rate greater than this value indicates instability in a dry atmosphere.

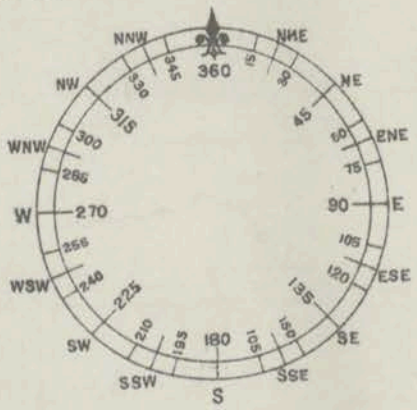
The broken lines marked Saturated Adiabatic show lapse rates for saturated air. These are for air masses which contain just sufficient moisture at 1,015 mb. pressure to become saturated after rising 1 km. in an environment having the dry adiabatic lapse rate. The condensed moisture is assumed to be retained thereafter in the air as it rises.

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. Wind velocities are shown on the charts of the British Section and Upper Air Supplement in m.p.h. by the numbers placed within the small circles. In the International Section velocities are not shown. In both Sections the number of feathers on the arrows denotes wind force by Beaufort number.

Upper Winds.—The direction and velocity of the wind are given in the charts of the Upper Air Supplement for heights of 2,000 feet and 6,000 feet. The data are also given in tabular form for various heights. The reports are usually based on Pilot Balloon ascents.

Wind reports deduced from British Pilot Balloon Ascents refer to the 1,000 feet layers centering at the heights given in the table up to 16,000 feet. When winds are reported at greater heights, they refer to the 5,000 feet layers centering at 20,000 feet, 25,000 feet, 30,000 feet and 35,000 feet.

In the tabular statement direction is specified in degrees from true north measured through East 90°, South 180°, West 270° to North 360°. (*See* diagram below.)



Rainfall.—At Stations marked † in the International Section of the Report, the rainfall is received in an abbreviated code and the measurement entered is therefore not necessarily correct to the nearest millimetre. For example any fall between 11 and 15 mm. would be reported by the same code figure and entered as 13 mm. in the Report.

Sea Disturbance.—The code for sea disturbance used at coastal stations is given on p. 1 of the British Section of the Report. Ships at sea use the following code:—

0. No or slight swell 1. Moderate swell 2. Heavy " 3. Long low " 4. Confused "	and	Sea smooth to moderate.	5. No or slight swell 6. Moderate swell 7. Heavy " 8. Long low " 9. Confused "	and	Sea rough or above.

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

The entries in the British Section of the Report for the stations in the main tables on pages 1, 2, and 4 are compared with those in the returns received from the stations at the end of the month and errors in the Report so found are noted in the monthly correction sheets.

The reports from the London Stations on page 1 and from the Health Resorts on page 4 are not subjected to the same close scrutiny but if any errors are found these are also noted in the correction sheets.

Times of Sunrise, Noon and Sunset.— The times of Sunrise, Noon and Sunset published in the British Section of the Report for certain stations are recalculated from (1) the figures for the duration of sunshine contained in the International Meteorological Tables and (2) the value of the sun's declination and the equation of time published in the Nautical Almanac. The change of declination of the sun on the same day from year to year over a cycle of four years is taken into account.

SUPPLEMENT TO THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT SELECTED STATIONS ISSUED ON THE 1st DAY OF EACH MONTH.

Notes on the Weather of DECEMBER, 1929.

The very stormy and unsettled weather over the southern half of the country during November spread to all districts early in December and continued relentlessly until the 16th, as, with pressure continuously low south of Iceland, intense secondaries swept quickly northeast across the country.

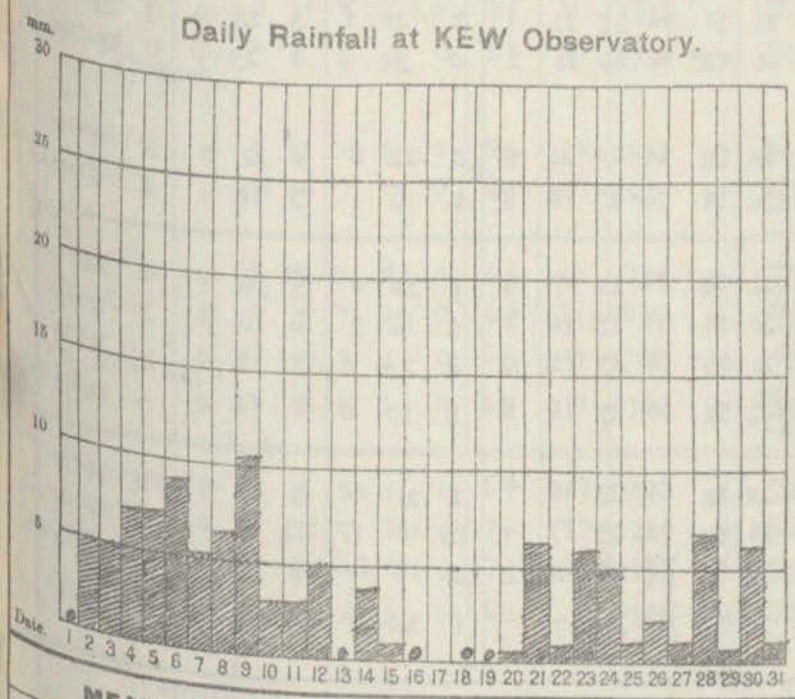
Heavy falls of rain were monotonously frequent in many parts of the country, with 24 hour totals of 25 mm. or more locally on many days. But the outstanding feature was the persistence of severe gales, especially in the West and Southwest, where they were of almost daily occurrence. During the worst gale, caused by a vigorous disturbance on the 5th. and 6th, a record gust velocity of 110 m.p.h. for the United Kingdom was registered at Scilly, and one of 103 m.p.h. at Falmouth. There were intervals of brighter but showery weather, with much hail and some thunder; southern districts experienced heavy thunderstorms during the evening of the 6th.

After the 16th. there was a change to fair anticyclonic conditions while a large high pressure system drifted slowly east to Central Europe. Temperature fell to a seasonable level generally with night frost. Sunshine was often plentiful, with over 7 hours locally in South England on the 19th.

Thereafter there was a slow return to unsettled weather. Snow or sleet fell in the northern half of the country from the 19th - 23rd., but no deep falls were reported to be lying. The 20th was cold in England with maxima round 35°F., while at Renfrew on the 22nd. the figure was only 25°F. Although Christmas week was mainly mild and stormy with further gales, severe locally, the year closed with a mainly fine quiet day generally.

The month was mild on the whole in the South, but in the North temperature was changeable. Most areas enjoyed an excess, often considerable, of bright sunshine, although everywhere the month was exceedingly wet. At Valentia it was the wettest December on record, and at Ross-on-Wye the wettest since 1876.

Daily Rainfall at KEW Observatory.



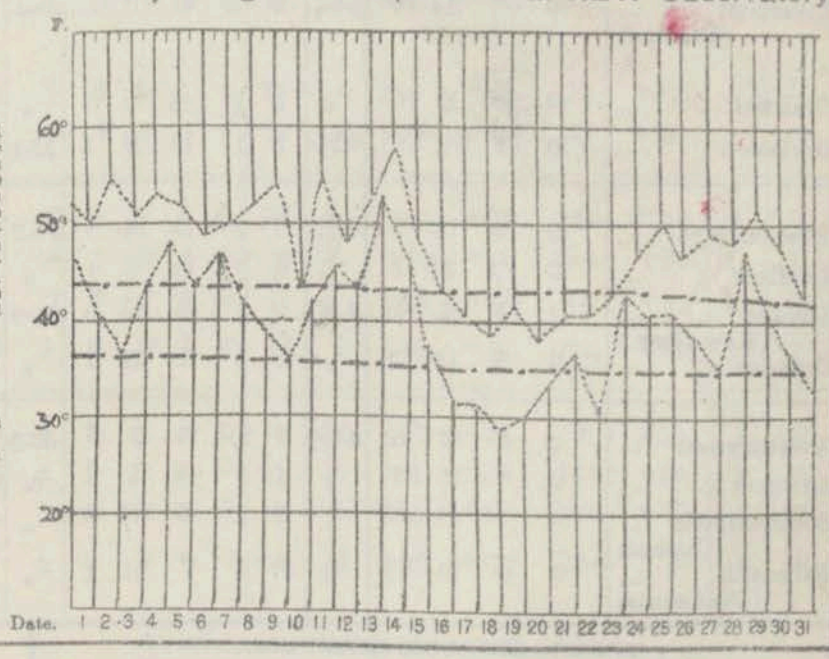
TEMPERATURE.

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.

RAINFALL.

● = less than 0·5 mm.
Total for month 110 mm.

Daily Range of Temperature at KEW Observatory.

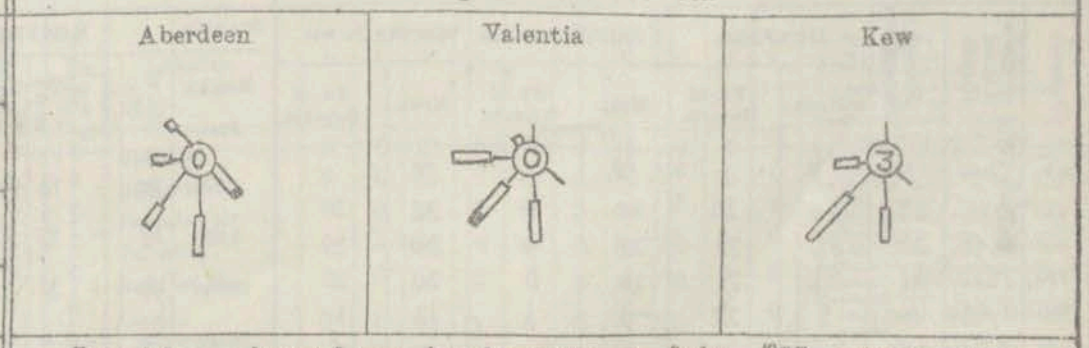


MEAN VALUES FOR THE MONTH.*

	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
	mb.	mb.	°F.	°F.
Aberdeen	994·3	−12·6	41·5	+2·9
Valentia	999·8	−10·9	45·7	+0·1
Kew	1006·7	−7·0	43·9	+3·5

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

WIND FREQUENCIES AT 7h.



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

H.M.S.O. Press, Kingsway, W.C.2.

P.S. 22231(2521) M.29. D.6004. 875. 1/30.

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE,

	†TEMPERATURE.																						LOW CLOUD.								
	Number of daily readings within fixed limits.										Extremes—Warmest and Coldest.									Number of Ground Frosts.	Number of observations within fixed limits.								
											Days.				Nights.						7H.			13H.			18H.		
	Maximum.					Minimum.																									
	32 or below.	33 — 41	42 — 50	51 — 59	Normal Max.	23 or below.	24 — 32	33 — 41	42 — 50	51 — 59.	Normal Min.	Highest Max.	Date.	Lowest Max.	Date.	Highest Min.	Date.	Lowest Min.	Date.		Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.
					°F.						°F.	°F.		°F.		°F.		°F.											
Stornoway ...	0	5	23	3	44.4	0	0	25	6	0	35.4	51	2, 13, 18	40	27, 30, 31	46	19	33	1, 11, 13	*	0	27	3	0	28	2	0	30	0
Aberdeen ...	0	4	26	1	42.9	0	2	23	6	0	34.0	53	13	40	21	46	4, 6	29	22	12	0	23	1	1	28	0	0	17	0
Edinburgh ... (Inchkeith)	0	6	23	2	*	0	2	21	8	0	*	54	2, 13	37	22	44	4, 14	32	22, 23	2	5	23	0	19	11	1	11	20	0
Renfrew	1	6	22	2	*	2	3	21	5	0	*	53	2, 13	25	22	45	6, 14	16	22, 23	8	2	26	0	3	24	2	2	21	4
Eskdalemuir ...	0	18	13	0	*	1	8	20	2	0	*	50	2	33	22	43	14	22	22	10	*	*	*	*	*	*	*	*	*
Dublin ... ... (Phœnix Park)	0	2	20	9	46.5	1	5	21	4	0	35.2	57	13	40	16, 22	47	13	22	17	10	*	*	*	*	*	*	*	*	*
Birr Castle ...	0	6	19	6	46.1	0	6	18	6	1	35.0	57	13	39	16, 21	52	14	25	17	15	0	24	0	0	27	0	0	27	0
Valentia ... ... (Cahirciveen)	0	0	21	10	49.8	0	2	11	17	1	41.1	55	28	43	21	52	14	32	16, 17	2	2	29	0	3	28	0	2	29	0
Tynemouth ...	0	7	19	5	44.3	0	1	18	12	0	34.7	53	13	36	20	50	14	28	22	6	5	26	0	3	27	0	5	23	0
Holyhead ...	0	0	22	9	46.9	0	0	9	21	1	39.9	54	2	43	22	51	14	35	22	1	2	28	1	3	28	0	3	27	1
Liverpool ... (Bidston)	0	4	23	4	44.8	0	2	17	11	1	36.8	55	13	33	22	52	14	30	23	2	0	30	0	0	29	0	0	28	0
Cranwell	0	8	19	4	*	0	8	15	7	1	*	57	14	33	20	53	14	24	23	9	0	22	5	4	22	0	3	18	1
Gorleston ...	0	5	18	8	43.6	0	2	19	9	1	35.2	58	14	38	20	51	14	27	18	5	4	16	1	3	19	1	4	8	1
Ross-on-Wye ...	0	4	18	9	45.1	1	5	10	14	1	34.9	56	14	33	22	53	14	23	17	8	1	26	0	2	26	1	2	22	1
Leafield	0	7	21	3	*	0	7	17	6	1	*	53	2, 14	34	20	51	14	28	20	8	5	16	2	6	16	3	3	15	2
London ... ... (Kew Obsy.)	0	5	16	10	44.7	0	5	12	13	1	35.9	58	14	38	20	53	14	29	19	12	2	24	0	5	19	0	2	11	0
Croydon	0	5	19	7	*	0	4	11	15	1	*	57	14	38	16, 20	52	14	29	18	5	11	10	0	11	14	0	7	10	0
Shoeburyness ...	0	4	15	12	44.9	0	5	16	9	1	35.9	57	14	37	20	52	14	28	18	7	2	21	4	2	16	4	2	14	0
Lympne	0	7	19	5	*	0	5	18	8	0	*	53	4, 14	35	20	50	14	29	17	7	12	10	1	12	15	0	11	11	0
Southampton ... (Calshot)	0	1	14	16	*	0	2	10	17	2	*	55	14	41	20	52	14, 15	28	18	2	9	18	0	6	20	1	5	20	0
Falmouth ... (Pendennis)	0	0	14	17	*	0	0	8	21	2	*	56	2	44	21	52	14, 15	35	17	*	1	30	0	1	30	0	1	29	1

UPPER AIR TEMPERATURE.

Pressure.	Normal Height.	Normal Temperature.	Duxford. Mean.	Duxford. No. of Reports.	S. Farnborough. Mean.	S. Farnborough. No. of Reports.	Worthy Down. Mean.	Worthy Down. No. of Reports.
mb.	feet.	°F.	°F.		°F.		°F.	
950	1730	35	40	22	39	4	38	2
850	4640	29	32	22	29	4	30	2
750	7870	21	22	22	20	3	20	2
650	11,490	9	9	22	−1	1	12	1
550	15,620	−4	−6	22	–	–	–	–

UPPER WINDS.

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

Station.	Renfrew.						Cattewater.						Lympne.					
Height. Feet.	No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.	No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.	No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.
2,000	35	–	10	20	5	–	34	3	14	13	4	–	48	3	16	23	6	–
5,000	19	–	5	12	2	–	5	2	1	2	–	–	9	–	1	6	2	–
10,000	8	–	3	2	3	–	1	–	1	–	–	–	1	–	1	–	–	–
15,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

†The readings used are, except in the case of Phœnix Park, the maximum for the period 7h.–18h. and the minimum for the period 18h.–7h. The normal values given above are based on extremes taken over the 24 hours.

RAINFALL, HUMIDITY AND LOW CLOUD, DECEMBER, 1929.

	SUNSHINE.											RAINFALL.													
	Number of Days with duration.					Maximum Duration.						Number of days with amount.‡						Maximum fall in 24 hrs.							
	Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Hours.	Date.	Total for past 12 months.	Difference from average.	Total for Month	Difference from average.	0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	mm.	Date.	Total for past 12 months.	Difference from Average.	Total for Month ‡	Difference from Average.	Days with Thunder.	Days with Snow or Sleet.
								hours.	hours.	hours.	hours.									mm.	mm.	mm.	mm.		
Stornoway ...	12	18	1	0	0	3·5	22	1278	+19	22	−1	3	2	10	15	1	0	23	28	1204	−62	195	+36	1	2
Aberdeen ...	11	13	7	0	0	5·5	31	1416	+29	49	+13	11	5	4	7	3	1	33	20	784	+36	166	+84	0	2
♮Edinburgh ... (Inchkeith)	7	16	8	0	0	5·5	31	1571	*	51	*	10	9	7	5	0	0	13	24	504	−50	65	+30	0	3
♮Renfrew	10	16	5	0	0	4·7	15	1295	*	43	*	2	3	8	13	4	1	26	20	1043	+118	230	+119	1	4
♮Eskdalemuir ...	17	13	1	0	0	4·0	15	1329	*	22	*	3	4	5	12	3	4	36	2	1616	+187	331	+153	1	11
Dublin ... ... (Phœnix Park)	3	17	9	2	0	6·4	4	1573	+66	76	+28	5	3	11	12	0	0	15	20	722	+17	140	+75	0	
Birr Castle ...	5	21	5	0	0	5·8	31	1405	+62	54	+11	3	3	13	12	0	0	15	24, 28	867	+38	165	+81	1	3
Valentia ... ... (Cahirciveen)	12	15	4	0	0	4·8	16	1408	−37	34	−7	2	5	6	13	5	2	32	1	1531	+117	295	+126	4	1
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	11	8	6	6	0	0	15	24	578	−43	70	+15	0	2
Holyhead ...	9	14	8	0	0	5·1	31	1812	*	56	*	4	3	13	8	3	0	20	20	952	+64	165	+59	2	0
♮Liverpool ... (Bidston)	9	11	11	0	0	5·5	3	1726	+270	70	+27	5	4	16	6	0	0	14	9	640	−69	99	+32	1	2
♮Cranwell	8	13	10	0	0	5·6	16	1639	*	62	*	11	5	9	6	0	0	15	24	501	−89	93	+37	0	3
Gorleston ...	14	10	7	0	0	#6·0	19	1618	*	52	*	9	10	4	8	0	0	14	21	474	−148	97	+35	0	0
Ross-on-Wye ...	5	15	8	3	0	6·6	19	1760	*	73	*	6	5	9	5	6	0	24	4	794	+76	196	+120	3	0
♮Leafield	7	14	7	3	0	6·4	31	1808	*	73	*	7	4	7	10	3	0	19	7	692	−2	164	+95	2	2
London ... ... (Kew Obsy.)	7	14	9	1	0	6·4	19	1707	+232	63	+26	4	7	9	11	0	0	11	9	542	−64	110	+52	2	0
♮Croydon	7	14	9	1	0	6·8	19	1746	*	58	*	6	3	9	10	3	0	17	6	666	−13	174	+105	2	2
Shoeburyness ...	5	16	9	1	0	6·9	19	1878	*	72	*	7	8	12	4	0	0	10	21	407	−73	71	+27	1	0
♮Lympne	7	15	7	2	0	7·1	19	1935	*	66	*	6	4	9	10	2	0	22	21	688	−36	181	+99	2	0
♮Southampton ... (Calshot)	7	14	6	4	0	7·1	19	1945	*	75	*	4	7	5	15	0	0	15	5	662	+16	151	+77	1	0
Falmouth ... Observatory	6	13	11	1	0	6·3	21	1869	+110	75	+20	4	2	11	7	7	0	24	28	1285	+178	234	+75	0	0

MINIMUM SURFACE HUMIDITY.

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

Station.	95–100 %.	90–94 %.	80–89 %.	70–79 %.	60–69 %.	50–59 %.	40–49 %.	30–39 %.	20–29 %.
Aberdeen ...	0	0	8	14	8	1	0	0	0
Renfrew... ...	1	1	10	15	4	0	0	0	0
Eskdalemuir ...	0	1	10	14	6	0	0	0	0
Valentia... ...	0	2	2	5	10	10	2	0	0
Ross on Wye ...	1	0	2	7	10	9	2	0	0
London ... ... (Kew Obsy.)...	0	1	7	11	6	5	1	0	0
Falmouth ...	1	0	7	9	11	3	0	0	0

STATE OF GROUND AT 13 h.

No. of Days each type was recorded.

Station.	0	1	2	3	4	5	6	7	8	9
Aberdeen ...	0	5	23	3	0	0	0	0	0	0
Renfrew... ...	0	0	26	1	0	0	0	4	0	0
Eskdalemuir ...	0	0	26	0	0	0	0	5	0	0
Valentia... ...	0	3	28	0	0	0	0	0	0	0
Ross on Wye ...	0	0	31	0	0	0	0	0	0	0
London ... ... (Kew Obsy.)...	0	1	27	3	0	0	0	0	0	0

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 3 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Sleeting to-day in 1500 and 1800 reports (Hoar frost in 0100 and 0700 reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer.
9=Glazed roads (ice on roads from frozen rain or melted snow).

♮ The average sunshine for Liverpool and the average rainfall for the other stations marked ♮ have been computed from the records available for these several stations by reference to the nearest stations with long records.

Estimated value.

‡ Based in part on reports made by telegraph in which the day & 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.

G. C. Simpson, F.R.S., *Director.*

PRESSURE: ICELAND TO GULF OF LIONS DECEMBER 1929.

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.

NOTE:-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 19h are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat 66°N, Long 18° W. in the north, at Lat. 44½° N., Long. 4° E. in the south.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24846 Sunday 1st December 1929.

Observations at 18h. G.M.T. 30th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of Ground.
Lerwick	997.6	-1	SE	2	c/p	46	85	8	1500	CuNb	3	ASt	9	*
Stornoway	992.0	-1	NNE	1	bc	48	75	8	4000	Cu	2	CiSt	4	*
Wick	994.4	-1	SE	4	c	47	85	8	1500	CuNb	8	ASt	10	*
Tiree	990.7	-1	ESE	3	cd+	48	92	6	1200	St	8	Acu	9	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	993.1	-2	ESE	4	c/d	47	85	7	1500	Nb	10	-	10	2
Malin Head	990.1	-1	ENE	2	c	49	92	5	450	St	9	Acu	9	*
Renfrew	991.1	-3	ENE	3	cr₀r₀	47	92	4	800	St	6	ASt	10	2
Edinburgh (Inchkeith)	991.6	-2	ENE	1	orr	45	97	6	450	Nb	10	-	10	*
Leuchars	991.6	-2	E	3	c/d	47	92	7	800	St	10	-	10	2
Eskdalemuir	989.1	-3	ENE	4	cdcd₀	45	97	6	450	St	10	-	10	2
Tynemouth	989.8	-3	E	2	or₀	47	97	6	1500	Nb	10	-	10	*
Blacksod Point	990.4	0	-	0	c	49	92	7	*	-	0	ASt	10	*
Donaghadee	987.4	-2	E	3	or₀	49	92	5	1500	St	10	-	10	*
Birr Castle	989.1	0	NW	1	§c0	43	97	3	2500	St	10	-	10	*
Holyhead	988.5	-1	SE	2	cdo	50	92	8	800	Nb	7	CiSt	9	2
Liverpool (Bidston)	987.7	-1	S	2	cr₀r₀	48	97	6	2500	Nb	9	CiSt	10	*
Chester (Sealand)	988.1	-1	SE	2	orr	49	97	4	800	Nb	10	-	10	2
Harrogate	988.3	-1	-	0	or-	46	97	1	150	St	10	-	10	*
Spurn Head	988.9	-1	SSW	3	c	49	97	0	4000	Nb	5	ASt	9	*
Birmingham (Edgbaston)	989.6	-1	SSW	3	c-	48	92	6	1500	Nb	6	Cu	8	2
Cranwell	989.2	-3	SW	3	c	51	92	6	1500	CuNb	7	Acu	9	2
Gorleston	992.0	-2	SW	5	c	52	97	6	2500	Nb	8	-	8	*
Valentia (Cahirciveen)	988.8	+1	NNW	3	c/p	50	85	7	800	St	10	-	10	2
Roches Point	989.0	0	N	3	c	50	97	7	2500	CuNb	8	-	8	*
Pembroke (St. Ann's H.)	987.5	0	SW	3	c/pr₀	51	92	8	1500	CuNb	4	ASt	8	*
Ross-on-Wye	989.6	-1	SW	3	c/r	50	92	7	2500	Nb	6	Cu	8	2
Leafield	989.5	-1	SSW	2	c/r	48	92	9	1500	Nb	9	-	9	2
Winchester (Worthy Dn.)	991.0	-1	SSW	3	c	53	85	7	4000	Cu	8	-	8	2
S. Farnborough	991.2	-1	SSW	3	bc/p	52	85	7	800	CuNb	6	-	6	2
London (Kew Obsy.)	991.3	-1	SSW	3	c	53	85	7	2500	StCu	9	-	9	2
Croydon	992.2	-1	SW	3	bc/r	52	85	6	800	Cu	7	-	7	2
Shoeburyness	992.4	-1	WSW	3	c/pr₀	52	92	8	800	Nb	9	-	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	992.6	-2	SSE	5	bc/r	50	92	7	1500	Nb	7	-	7	2
Lympne	992.6	-2	SW	5	c	54	85	7	1500	Cu	5	Cu	8	2
Scilly (St. Mary's)	988.6	0	W	2	bc	53	85	7	4000	Cu	3	Ci	5	*
Falmouth (Pendennis)	990.3	-1	SSW	4	c+	52	85	8	4000	Cu	4	CiCu	8	*
Plymouth (Mt. Batten)	989.6	-1	S	3	c	53	85	9	2500	CuNb	1	Ci	8	2
Portland Bill	989.8	(-2)	SSW	3	c/PR	52	85	8	1500	Nb	8	ASt	9	*
Southampton (Calshot)	991.8	-1	SW	4	cr₀r₀	51	92	7	800	CuNb	8	-	8	2
Dungeness	992.5	-3	SSW	4	bc	55	85	8	2500	Cu	5	CiCu	7	*
Guernsey (St. Peter Port)	993.0	-2	SSW	3	bc	55	85	7	4000	StCu	4	Acu	6	*

Observations at 18h. G.M.T. 30th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	997.0	-1	SE	2	c/p	46	85	8	1500	CuNb	4	ASt	8	*
Stornoway	991.6	0	ESE	2	c	46	92	6	4000	StCu	8	-	8	0
Wick	993.1	-1	SE	4	cdcd₀	47	85	8	1500	Nb	10	-	10	4
Tiree	990.3	0	ENE	3	0	48	92	7	5700	St	10	-	10	1
Nairn	991.1	*	E	1	c	44	92	6	800	CuNb	8	-	8	*
Aberdeen	991.1	-2	ENE	4	c/d	47	85	7	1500	Nb	7	ASt	10	1
Malin Head	989.9	0	NEE	3	c	49	92	5	450	St	9	ASt	10	0
Renfrew	990.5	-1	NE	2	c/r	47	92	6	1500	Nb	4	AST	10	*
Edinburgh (Inchkeith)	988.9	-2	NE	3	or₀r₀	45	97	7	800	Nb	10	-	10	1
Leuchars	989.3	-3	NE	2	or₀r₀	47	97	6	800	Nb	10	-	10	*
Eskdalemuir	987.7	-1	NNE	2	or₀r₀	44	92	6	1500	Nb	10	-	10	*
Tynemouth	987.8	-2	SSE	2	c/p	48	97	6	1500	Nb	10	-	10	2
Blacksod Point	990.4	0	W	1	bc/pr₀	48	85	7	*	CuNb	7	-	7	2
Donaghadee	987.4	0	E	2	c	49	92	5	1500	St	10	-	10	2
Birr Castle	989.8	+2	NW	1	§c+	43	97	2	2500	St	10	-	10	*
Holyhead	988.2	0	SW	1	cd₀	48	97	6	800	Nb	9	-	9	0
Liverpool (Bidston)	987.3	0	S	2	bc-	47	97	6	2500	Nb	6	-	6	*
Chester (Sealand)	987.7	0	SSE	1	Fbc+	46	97	1	5700	St	2	CiSt	3	*
Harrogate	988.2	0	SSW	1	or₀+	45	97	4	150	St	10	-	10	*
Spurn Head	988.3	0	SW'S	3	c	47	97	7	2500	StCu	8	-	8	2
Birmingham (Edgbaston)	989.7	0	SSW	2	c+	45	97	5	4000	Cu	8	-	8	*
Cranwell	989.2	+1	SSW	3	bc-	47	92	7	2500	StCu	5	ACu	6	*
Gorleston	991.2	0	SW	2	b	48	92	6	-	-	0	-	0	0
Valentia (Cahirciveen)	990.9	+2	NW	1	c	49	92	8	800	St	8	-	8	2
Roches Point	990.2	+1	NW	3	c	48	97	7	1500	CuNb	9	-	9	5
Pembroke (St. Ann's H.)	987.5	0	SW	2	c/pr₀	49	97	8	1500	CuNb	7	AST	8	2
Ross-on-Wye	989.4	0	S	2	c	47	92	6	2500	StCu	3	CiSt	8	*
Leafield	989.5	0	S	2	b-	43	92	8	4000	Cu	2	-	2	*
Winchester (Worthy Dn.)	991.2	-1	-	0	b-	47	97	6	2500	StCu	2	-	2	*
S. Farnborough	990.4	-1	SE	2	b	47	92	6	1500	StCu	2	-	2	*
London (Kew Obsy.)	990.7	0	SE	2	bc	48	92	6	-	-	0	ACu	7	*
Croydon	991.5	0	SSW	2	c/r	49	92	5	800	Nb	8	-	8	*
Shoeburyness	991.8	0	SW	1	b/r	47	97	6	-	-	0	-	0	*
Clacton-on-Sea	991.6	0	SSW	3	bc	48	97	7	2500	CuNb	6	-	5	2
Felixstowe	991.8	0	SW	2	bc/PR	50	92	6	1500	CuNb	6	-	5	1
Lympne	992.2	0	S	3	b-	48	97	7	4000	StCu	2	-	2	*
Scilly (St. Mary's)	989.5	+1	WNW	3	bc	49	97	8	4000	Cu	3	-	3	4
Falmouth (Pendennis)	990.3	0	WN	2	bc	49	92	6	4000	Cu	3	ASt	6	0
Plymouth (Mt. Batten)	989.1	0	-	0	bc-	49	97	5	1500	St	4	CiSt	6	1
Portland Bill	988.4	-2	SWW	1	DRR	51	92	7	800	Nb	10	-	10	4
Southampton (Calshot)	990.6	-1	S	3	orr	50	92	6	800	Nb	10	-	10	0
Dungeness	991.9	-1	SSW	2	b-	52	97	8	2500	CuNb	2	-	2	3
Guernsey (St. Peter Port)	989.8	-4	S	2	cr	53	85	7	4000	StCu	10	-	10	3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.§
		24 HOURS ENDED 9h.								YESTERDAY.	YESTERDAY.	TO-DAY.	TO-DAY.
Kew	18	cr₀bc	bcr₀bcm	bcr₀fcm	55	46	37	1	5	1.7	*	*	5
Croydon	244	cmr₀cm	cbcr₀rc	cmr₀r₀	54	46	39	3	7	1.5	*	*	4
Greenwich (Royal Obsy.)	149	cp	cid	cibcRR	55	44	29	2	9	1.6	80	95	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	55	49	42	7		0.9	94	94	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*		*	*	*
Camden Square	110	bcrc	crc	*	53	47	*	1	8	*	*	99	*
Kensington Palace	80	cp	cp	*	54	47	37	3	6	*	(At 18h. 55.7)	97	*
Hampstead Observatory	450			*						0.4	*		*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.2	21h 30th	0.3	6h 1st

Kew Observatory

Max.	Time.	Min.	Time.
0.5	24h. 30th	0.1	24h. 30th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 30th 17 h. 00 m. to 1st 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 45	4 0	29
δ Ursæ Minoris	13 45	3 19	24

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

The 2nd Thursday in Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.43	11.42	15.40
	7.45	11.42	15.40
Greenwich	7.48	11.49	15.53
	7.46	11.49	15.52
Wick	8.38	12.1	15.25
	8.40	12.2	15.24
Valentia	9.24	12.30	16.32
	9.29	12.30	16.31

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
x 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; — = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

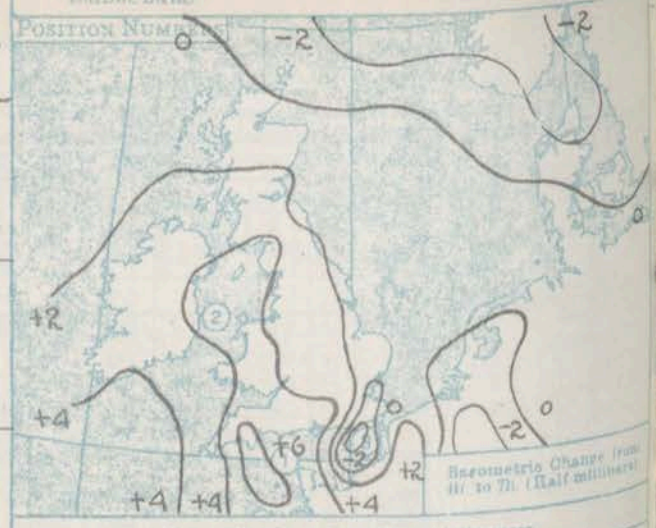
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 30th	13h.-18h. 30th	18h. 30th to 1h. 1st	1h.-7h. 1st	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	Sun 30th Hours.
Lerwick	cpr₀	cpr₀	c	c	46	44	•	tr.	9.00	-	-	0.0
Stornoway	c	bcc	b-bc	bcb	48	33	•	-	-	-	-	3.6
Wick	ourc	cod₀	cr₀rc	c	47	45	•	0.6	<8.00	0.2	22.00	•
Tiree	r₀id₀	r₀c	cid₀	c	49	47	42	0.3	9.00	Tr	<21.00	0.0
Nairn	gcd₀	c	cpd	od₀	46	41	•	0.1	11.00	1	<21.00	0.0
Aberdeen	our₀m₀d₀	ocd₀	corr ir₀	oir ir₀c	47	44	43	0.1	<8.00	4	<21.00	0.0
Malin Head	cm₀m₀	cm₀rm₀	cm₀m₀cpm₀	cr₀bc	49	44	•	-	-	0.2	22.00	0.0
Renfrew	cmr₀	r₀mocir₀	cir₀	r₀c	47	43	41	1	<8.00	1	<21.00	0.0
Edinburgh (Inchkeith)	omr₀r₀	orr	or₀r₀rr	orrc bc	46	43	40	6	<8.00	5	<21.00	0.0
Leuchars	od₀r₀id₀m₀	our₀ r₀r₀	orrcm₀	cm₀c	47	41	37	3	<8.00	7	<21.00	0.0
Eskdalemuir	odod₀	or₀r₀	cr₀c	ccr₀c	45	42	39	2	<8.00	0.5	<21.00	0.0
Tynemouth	orr	our	oir₀m	oir₀	48	45	44	10	<8.00	1	24.00	•
Blacksod Point ...	c	pc	pco	bcb	49	46	•	1	•	0.3	•	•
Donaghadee	ir₀m₀	ir₀m₀	oc	cbc	49	45	•	3	<8.00	-	-	•
Birr Castle	ofg	ofg	ofo	or₀c	44	42	40	-	-	Tr	3.30	0.0
Holyhead	r r₀r	dcm₀d	d id₀c	cm₀	51	47	45	5	<8.00	0.3	<21.00	0.0
Liverpool (Bidston) ...	md₀gr	odm₀	bbcm₀	bccm₀	48	45	42	3	<8.00	-	-	0.0
Chester (Sealand) ...	gg d₀rr	rrm cg	F bcm	mbcm₀	49	41	35	5	<8.00	0.1	6.30	0.0
Harrogate	offrr	oufmd₀r₀	omor₀oc	c	47	42	37	11	<8.00	0.3	<21.00	0.0
Spurn Head	orc	crc	cbc	bcw	49	40	•	3	<8.00	Tr	-	0.0
Birmingham (Edgbaston)	orc	c	cb	bbcc	49	40	31	1	9.00	-	-	0.2
Cranwell	omrcm₀	opr	bcb	bm₀f	51	38	32	1	<8.00	Tr	-	0.1
Gorleston	or₀cq	cqbc	b bc c	co	54	45	40	0.2	<8.00	-	-	0.0
Valentia (Cahirciveen)	cp₀	cp₀bcc	cpr₀c	cbcwc	51	46	37	0.1	9.00	Tr	<21.00	0.5
Roches Point	cp₀c	cir₀c	cbc	bccp₀c	50	45	•	1	11.00	1	2.30	•
Pembroke (St. Ann's H.)	cp₀	cp₀	cir₀m₀	cq	53	48	•	1	<8.00	4	<21.00	0.9
Ross-on-Wye	cir₀	bcc	cmw	ocm	51	40	33	0.4	11.00	-	-	1.3
Leafield	cpr₀c	cbc	bbcorr	rrcbc	50	40	32	1	11.00	2	22.00	0.7
Winchester (Worthy Dn.)	crr₀rm₀c	cr₀cbm₀	bforRrr	orrcm₀	54	45	39	5	<8.00	24	<21.00	2.8
S. Farnborough ...	cpbcp₀	bcpbcb	bbcp	bcpor₀r₀	53	46	39	3	<8.00	3	<21.00	3.6
London (Kew Obsy.) ...	cr₀bc	bcprcbm	bcm₀rmc	c'cfcm	55	46	37	1	9.00	5	<21.00	1.7
Croydon	cm₀r₀cm₀	cbcrrcm	cm₀r₀r₀	coRrrff	54	46	39	3	<8.00	7	<21.00	1.5
Shoeburyness	cpr	cpr bm₀	om	bbc	55	48	36	1	<8.00	-	-	2.2
Clacton-on-Sea ...	bcpbc	bcclphbc	bcb	pbcogd	52	47	43	2	11.00	0.4	1.30	0.6
Felixstowe	bcrbcrb	bcprbc	bcpr₀c	bcoRRR	52	46	42	3	9.00	6	<21.00	0.6
Lympne	om₀c	cprbc	b o b	bbccr₀r₀	54	47	42	0.4	15.30	0.4	1.30	2.7
Scilly (St. Mary's) ...	bc	bc	bcp	bccp	54	48	•	-	-	3	<21.00	6.5
Falmouth (Pendennis)	bcp	cbc	bcp	bcp	53	47	•	0.0	<8.00	1	<21.00	1.1
Plymouth (Mt. Batten)	crprbcv	crbcm₀	bcbm	bm₀cr	54	47	39	0.6	<8.00	0.3	1.30	2.3
Portland Bill	cr₀ip	ciporr	o	oc	54	48	•	7	<8.00	2	<21.00	•
Southampton (Calshot)	ccbccRr₀	cr₀prbccm	rrcprcRR	oRRrrc	54	46	44	4	11.00	12	<21.00	1.5
Dungeness	cbc	cbcb	bbc	bccd₀	55	50	•	-	-	Tr	3.30	•
Guernsey	bcbc	bc, bcp	oRbc	bcc	55	49	48	0.3	13.30	17	<21.00	4.2

† For code see page 1

ISALLOBARS — 1st December, 1929.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	30th 10h	Scotia	SE	4	rr	51	53	5
1	30th 12h	St Helier	SW	5	bc+	55	55	7
3	1st 2h	Arundel	S'E	2	c	55	51	7

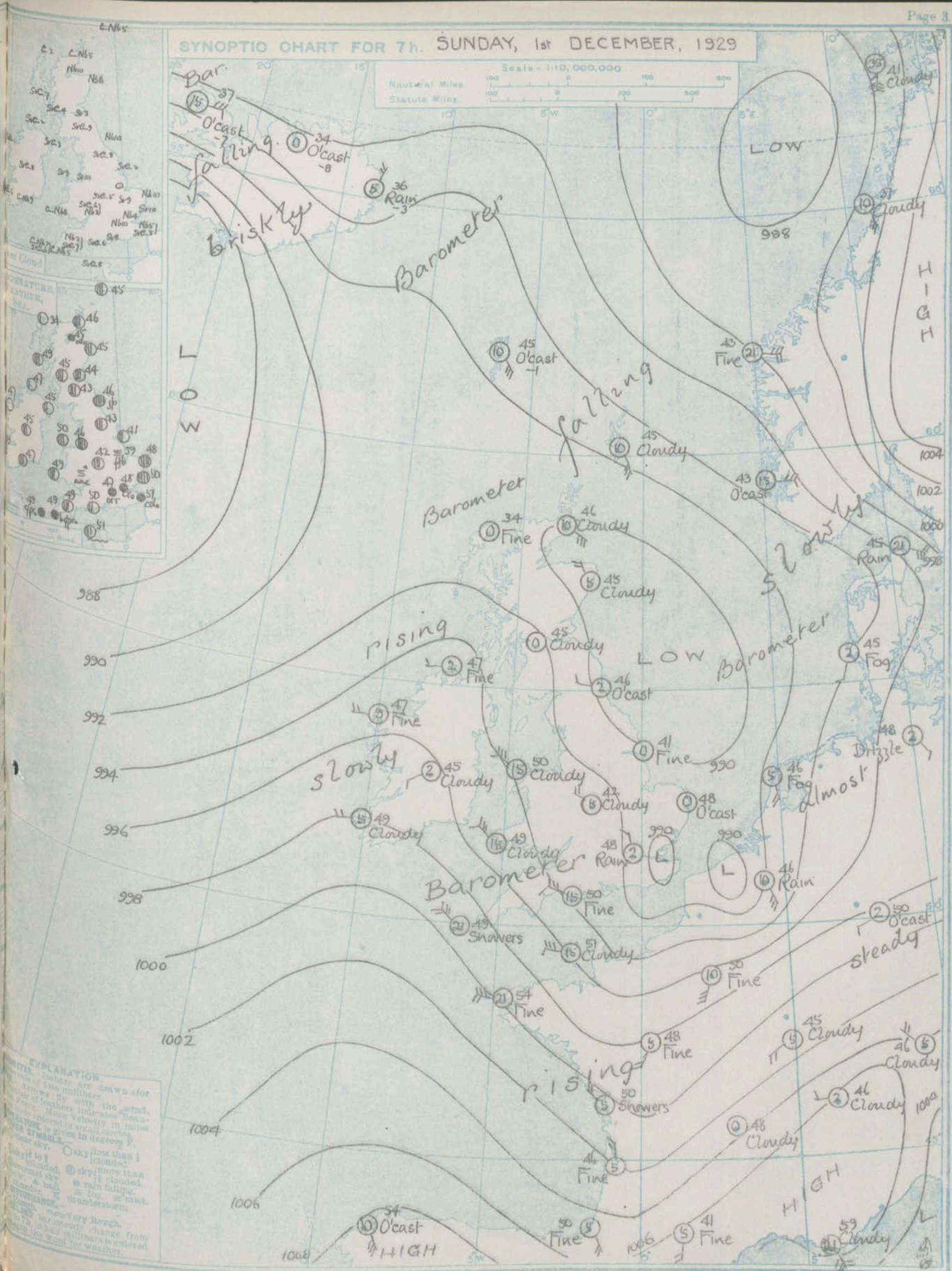
GENERAL INFERENCE.

A depression over the North Sea is moving slowly eastward, while pressure is rising slowly over the British Isles. Although some rain is likely at first in Eastern districts, weather generally will be mainly fair, apart from local showers. Winds will be light to moderate and temperature somewhat above normal in most districts. A depression indicated near Greenland may affect our northwestern districts later.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 1st. December. 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Light to moderate northwesterly winds; occasional rain at first; mainly fair, apart from local showers, later; local mist or fog morning and evening; temperature somewhat above normal.	Less settled in north-western districts.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Light to moderate northwesterly winds; mainly fair, apart from local showers; local mist or fog night and morning; temperature moderate or rather high.	
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland, B. N.W. Scotland 14. Mid Scotland 15. N.E. Scotland	Light westerly to northwesterly winds; fair apart from local showers; local mist or fog; moderate to rather high temperature.	
16. Orkneys and Shetlands 17. N.W. Ireland	Light east to northeast winds; some rain at first; mainly fair with local showers later; local mist or fog; moderate to rather high temperature.	C.A.K.
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light West to Southwest winds; mainly fair, apart from local showers; local mist or fog morning and evening; temperature somewhat above normal.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1140 G.M.T. — C. Salmon, C.B., D.Sc., F.R.S., Director.

Trace = rain has fallen, but amount less than 0.1



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 1st December 1929. No. 335.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 1st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 1st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	34	994·9	-1	SE	3	c	45	85	8	1500	St Cu	5	A St	9	992·9	-2	SE	3	c	45	85	8	1500	St Cu	5	A St	9	*
Stornoway	30	993·1	0	NE	1	bc+	*	*	7	*	*	*	*	7	991·6	+1	-	0	b	34	97	7	4000	Cu	2	-	2	0
Wick	81	991·6	-2	ESE	3	c	47	92	8	1500	Cu Nb	6	A St	10	989·7	0	ESE	3	c	46	92	8	1500	Cu Nb	5	A St	9	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	992·2	+2	NNW	3	c	49	85	8	2500	St Cu	7	A St	10	1
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*	991·1	*	-	0	od.	45	92	7	800	Nb	10	-	10	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	989·4	+1	NW	2	c	45	97	8	1500	Nb	8	A Cu	9	1
Malin Head	81	991·6	+2	W	1	c/r	47	92	7	4000	St Cu	9	-	9	994·9	+3	W	1	b	47	92	7	4000	St Cu	2	A Cu	2	0
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*	993·0	+3	-	0	c	45	92	7	2500	St Cu	4	A St	10	*
Edinburgh (Inchkeith)	100	988·9	0	NE	2	orr	45	97	8	4000	Nb	10	-	10	991·1	+2	W	2	c	44	92	8	2500	St	3	A St	8	0
Leuchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*	990·5	+2	W	1	c	42	92	8	2500	St Cu	8	-	8	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	991·5	+4	W'S	2	c	43	85	7	2500	St Cu	9	-	9	*
Tynemouth	67	987·0	+1	WSW	2	ojp	46	97	7	1500	Nb	10	-	10	989·3	+2	WNW	1	ojp	46	92	6	1500	Nb	10	-	10	1
Blacksod Point ...	18	992·1	+2	W	2	c	49	92	6	*	-	0	A St	10	995·2	+2	W	2	b	47	85	8	*	St Cu	1	-	1	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	992·5	+4	SSW	2	bc	45	92	7	4000	St Cu	3	-	3	1
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	994·8	+3	SW	1	c	45	97	7	4000	St Cu	8	-	8	*
Holyhead	36	990·0	+2	NNW	3	c	50	92	6	1500	St	5	A St	10	993·9	+5	NW	4	c	50	85	6	1500	St	9	-	9	2
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	992·2	+3	W'N	3	o+	46	97	6	2500	St	10	-	10	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	992·0	+4	WNW	1	cr.	43	97	6	1500	Nb	8	-	8	*
Harrogate	476	*	*	*	*	*	*	*	*	*	*	*	*	*	990·4	+3	SW	2	c	43	97	7	4000	St Cu	8	-	8	*
Spurn Head	20	989·0	0	SW	3	bc-	43	97	6	1500	St	5	-	5	990·8	+1	-	0	bc	41	97	6	2500	St Cu	2	Cu Cu	4	2
Birmingham (Edgbaston)	585	*	*	*	*	*	*	*	*	*	*	*	*	*	993·6	+3	W	1	c	42	97	8	2500	St Cu	9	-	9	*
Cranwell	236	990·1	+1	WSW	2	b	41	97	6	4000	St Cu	1	-	1	991·9	+3	W'S	3	ff b	39	97	2	-	-	0	-	0	*
Gorleston	14	991·0	-1	S'W	1	c+	47	92	6	-	-	0	A St	10	991·1	+1	-	0	o	48	97	6	2500	Nb	10	-	10	0
Valentia (Cahirciveen) ‡	30	994·7	+1	W	2	b	46	92	9	*	-	0	-	0	998·3	+3	W	2	c	49	92	8	2500	St Cu	5	A St	8	5
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	997·7	+4	SW	2	c	47	92	7	2500	Cu Nb	9	-	9	4
Pembroke (St. Ann's H.)	150	990·1	+2	NW	3	c	49	92	7	1500	Cu Nb	6	A St	10	994·5	+3	NW	4	c	49	92	8	1500	Cu Nb	8	A St	10	2
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	993·1	+4	-	0	mmc	41	97	4	2500	St Cu	9	-	9	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	992·6	+3	NW	2	c+	42	97	7	4000	St Cu	9	-	9	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	993·2	+5	WNW	3	c	45	97	6	1500	St	10	-	10	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	993·2	+4	W	2	orr	47	97	6	800	Nb	10	-	10	*
London (Kew Obsy.) ...	18	*	*	*	*	*	48	*	*	*	*	*	*	*	991·7	+4	N'W	1	cr.	48	97	5	-	Nb	4	A St	10	*
Croydon	244	990·1	-1	SE	1	c	46	97	6	2500	St Cu	8	-	8	991·9	+3	NW'N	1	or r.	47	97	1	4150	St	10	-	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	990·9	-1	NNW	2	o	47	97	6	1500	St	10	-	10	0
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	990·4	0	ESE	1	o	50	92	6	2500	St	10	-	10	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	990·7	0	-	0	or r.	47	97	7	800	Nb	10	-	10	*
Lympne	350	989·9	-2	SE'E	3	b	50	97	8	-	-	0	-	0	990·4	+1	S'E	1	cr. r.	49	97	7	1500	Nb	8	A St	10	4
Scilly (St. Mary's) ...	163	993·4	+2	NW'N	4	bc	49	92	8	4000	Cu	4	-	4	998·6	+5	NW'W	5	c/pr.	49	85	8	4000	St Cu	9	-	9	1
Falmouth (Pendennis)	200	992·4	+2	NW'W	3	bc/PR	49	85	7	4000	Cu Nb	5	-	5	997·9	+3	WNW	4	bc/pr.	49	92	8	4000	Cu Nb	5	-	5	2
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	996·3	+6	W	3	c	49	85	7	2500	St Cu	9	-	9	4
Portland Bill	52	990·4	+1	WNW	2	o	50	92	8	1500	St	10	-	10	992·8	+5	WNW	4	bc-	50	85	7	2500	St Cu	6	A St	7	0
Southampton (Calshot)	10	989·3	0	N'E	2	oRR	48	97	7	450	Nb	10	-	10	993·0	+4	W'N	3	c	47	92	7	800	St	8	A St	10	2
Dungeness	20	989·5	-2	SSW	3	bc+	52	92	8	2500	St Cu	4	-	4	996·0	-2	SW	1	cd.	51	92	8	2500	Nb	10	-	8	6
Guernsey (St. Peter Port)	179	992·2	+4	WNW	4	bc-	51	85	8	2500	Cu	4	-	4	997·4	+7	WNW	4	c	51	75	6	2500	St Cu	8	-		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30th November

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 29th to 9h. 30th.	Temperature. Max. 9h. 29th-17h. 30th.	Rainfall.† Night 17h.-9h. 29th-30th.	Rainfall.† Day 9h.-17h. 30th.	Sunshine. Sunrise to Sunset. 30th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	oRR	o	44	47	Trace	9	0·0
Douglas (I. o. M.) ...	ofd.	od.	46	49	3	0·3	0·0
Llandudno ...	orr	crc	47	51	1	1	0·0
Colwyn Bay ...	cro	orscrc	45	50	2	2	0·0
Rhyl	or	rbc	44	52	0·4	2	0·0
Wallasey	irr	iro	46	49	1	4	0·0
Southport	orr	rr	* 45	48	1	6	0·0
Blackpool	or	o	46	47	2	7	0·0
Morecambe ...	our.	our.	47	49	1	5	0·0
Ilkley	omr	or	42	46	6	8	0·0
Claethorpes	od	c	42	52	3	Trace	0·2
Mablethorpe. ...	cpm	bpm	44	52	1	0·5	0·0
Skegness	cor	rbc	44	50	-	2	1·6
Aberystwyth ...	crbc	cjp	48	52	6	-	1·2
Bath	obc	obc	49	54	5	1	3·3
Cheltenham ...	(bc(c)	bc	48	54	8	0·3	1·6
Leamington Spa ...	cd	c	45	52	7	Trace	0·3
Lowestoft	ror.	rcbb	47	53	4	0·4	1·0
Harwich & Dovercourt	ro.	bcrbc	45	52	5	4	1·2
Maldon	bcir	bc	46	53	14	1	1·3
Ilfracombe	rocbc	bbcc	48	53	4	2	3·5
Bude	bbcp.	pbc	46	53	8	Trace	2·3
St. Ives							2·4
Penzance	cbc	cprbc	47	55	1	0·3	2·0
Paignton	oRbbc	pbcm	47	54	24	Trace	2·9
Torquay	crrpcm	cpcm	48	54	6	Trace	5·0
Jersey	pcbc	bccp	53	56	3	Trace	1·2
Weymouth	cpcp	pcbcr	50	53	7	3	1·9
Bournemouth ...	ocbcr	bcrc	47	52	18	3	3·9
Ventnor ...	orbcb	bour	48	55	4	1	1·3
Portsmouth (S'thsea)	cbc	Pc	50	54	6	9	1·3
Bognor Regis ...	rrocr	bc PR	50	52	8	4	2·2
Littlehampton ...	cbcp	pbc	51	54	5	2	2·4
Worthing	cpcp	bc	51	55	5	2	2·6
Brighton	rcbc	bccbc	51	55	8	0·6	1·4
Eastbourne	cbc	b	52	55	3	-	2·3
Hastings	cbcc	copcb	51	55	3	0·4	3·2
Folkestone	rcbc	bcc	51	56	5	-	1·7
Dover	cb	cb	51	55	6	-	0·6
Deal	oco	bcc	51	55	5	2	1·0
Tunbridge Wells ...	gpoc	bco	50	54	12	-	0·7
Ramsgate	c	c	51	54	3	Trace	2·9
Margate	cbc	bcp	51	57	2	4	1·4
Southend	cp	cp	48	52	3		

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. ? The observations at 1h. G.M.T. from an auxiliary station. § For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24847 Monday 2nd December 1929. Page 1.

Observations at 18h. G.M.T. 1st

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	989.9	-3	E N	4	0/0	48	92	7	1500	Nb.	10	-	10	•
Stornoway	990.8	+1	-	0	mc	43	97	4	4000	Cu Nb	6	A.Cu.	8	•
Wick	991.1	-1	WNW	2	bc	45	92	8	1500	Cu Nb	5	A.Cu.	7	•
Tiree	992.8	+2	WSW	4	c	49	92	7	4000	St.Cu.	7	A.St.	9	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	991.6	+1	WNW	2	bc+	46	85	7	1500	St.Cu.	3	-	3	2
Malin Head	994.9	+2	WSW	2	c	48	85	7	2500	St.Cu.	9	-	9	•
Renfrew	994.6	+1	WNW	2	bc+	50	75	6	2000	St.Cu.	1	C.	4	2
Edinburgh (Inchkeith)	991.8	+1	W	2	bc	46	85	6	800	St.	3	C.	7	•
Leuchars	992.4	+1	W	2	bc+	49	75	8	-	-	0	C.	3	2
Eskdalemuir	993.9	+1	SW'S	3	bc+	45	92	7	1500	St.Cu.	6	C.	7	2
Tynemouth	993.1	+1	W	2	b/r	51	75	6	2500	Cu.	2	-	2	•
Blacksod Point	995.2	0	W	2	c	50	85	7	•	-	0	A.St.	9	•
Donaghadee	994.7	+2	W	2	bc+	48	92	7	4000	St.Cu.	3	A.Cu.	6	•
Birr Castle	997.2	-1	SW	2	o+	48	92	8	2500	St.	10	-	10	•
Holyhead	997.5	+3	W'N	4	c+	50	85	7	1500	St.	8	-	8	2
Liverpool (Bidston)	996.0	+2	WNW	4	c/f	49	92	5	1500	St.Cu.	8	-	8	•
Chester (Sealand)	996.0	+3	NW	3	c	50	85	6	1500	St.	8	-	8	2
Harrogate	995.0	+1	SW	2	bc	49	85	7	4000	St.Cu.	6	-	6	•
Spurn Head	993.6	0	NW	3	fbc-	45	97	4	200	St.	7	-	7	•
Birmingham (Edgbaston)	997.7	+3	WNW	3	c	48	85	5	2500	St.Cu.	6	A.Cu.	8	2
Cranwell	995.3	+1	W	2	bc/f	45	97	5	4000	St.Cu.	2	A.Cu.	4	2
Gorleston	993.6	+2	NNE	2	fo-	50	97	3	1500	St.	10	-	10	•
Valentia (Cahirciveen)	998.5	-2	SW'S	3	c	51	85	8	1500	St.	10	-	10	2
Roches Point	999.9	-2	SW	2	c	49	92	8	1500	Cu Nb.	9	-	9	•
Pembroke (St. Ann's H.)	998.2	0	NW	2	bc-	52	85	8	1500	Cu.	2	C.Cu.	6	•
Ross-on-Wye	997.5	+3	W'N	3	bc+	52	75	7	4000	Cu.	7	-	7	2
Leafield	996.5	+3	WNW	3	bc	48	85	7	4000	Cu.	3	-	3	2
Winchester (Worthy Dn.)	997.7	+1	WNW	3	bc	50	85	6	2500	St.Cu.	5	A.Cu.	6	2
S. Farnborough	996.5	+3	WNW	1	c	50	85	7	1500	St.Cu.	8	-	8	2
London (Kew Obsy.)	996.6	+2	WNW	2	c	50	85	6	2500	St.	5	A.Cu.	9	2
Croydon	997.6	+6	WNW	2	mc	49	85	4	800	St.Cu.	9	-	9	2
Shoeburyness	995.5	+4	WNW	3	c/o	48	97	7	1500	Cu Nb.	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	994.6	+3	WNW	3	c-	49	92	6	1500	St.Cu.	9	-	9	2
Selsey (St. Mary's)	995.6	+4	WNW	3	c+	48	92	5	800	St.	10	-	10	2
Falmouth (Pendennis)	1002.2	+3	WNW	5	bc	52	85	8	4000	Cu.	4	C.	5	•
Falmouth (Mt. Batten)	1002.1	+3	W'N	4	bc	53	75	8	4000	Cu Nb.	5	-	5	•
Portland Bill	1000.4	+2	WNW	4	c	52	75	7	4000	St.Cu.	9	-	9	2
Southampton (Calshot)	998.1	+5	WNW	3	bc-	53	75	8	2500	Cu.	2	A.St.	3	•
Dungeness	998.0	+3	WNW	4	c+	52	85	7	1500	St.Cu.	8	-	8	2
Guernsey (St. Peter Port)	995.9	+6	W'N	2	c	50	92	7	2500	St.Cu.	10	-	10	•
	1000.0	+2	WNW	3	b	54	75	7	4000	St.Cu.	2	-	2	•

Observations at 18h. G.M.T. 1st

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sta. 0-9
Lerwick	988.8	-1	W'N	1	bc	45	92	-	1500	St.Cu.	4	A.St.	7	•
Stornoway	989.4	-2	S	2	bc-	46	92	6	4000	Cu Nb	5	-	5	0
Wick	991.4	+2	SW	2	bc	38	97	8	2500	St.Cu.	3	-	3	1
Tiree	991.5	-1	SW'S	5	c	48	92	7	2500	St.Cu.	4	A.St.	8	4
Nairn	992.3	•	-	0	bc	40	85	7	1500	St.	5	-	5	•
Aberdeen	993.6	0	SW	1	bc+	41	92	5	4000	St.Cu.	6	-	6	1
Malin Head	993.3	-1	S	4	bc-	46	85	8	4000	St.Cu.	6	-	6	0
Renfrew	996.3	+2	-	0	c	43	97	6	4000	St.Cu.	3	A.St.	9	•
Edinburgh (Inchkeith)	995.4	+2	SW	3	o	44	92	7	1500	St.	10	-	10	1
Leuchars	994.9	+2	W	2	c+	40	85	8	2500	St.Cu.	7	A.St.	9	•
Eskdalemuir	997.5	+2	S	2	c	41	92	7	1500	St.Cu.	9	-	9	•
Tynemouth	995.5	+2	SW	2	bc	46	92	5	800	St.	4	-	4	1
Blacksod Point	992.5	-2	S	4	c+	50	85	7	•	Cu Nb	10	-	10	0
Donaghadee	996.1	+2	W	2	b	43	92	7	4000	Cu.	2	-	2	1
Birr Castle	996.0	-2	S	2	bc-	46	92	8	4000	St.Cu.	3	-	3	•
Holyhead	999.8	+3	SW'W	3	b-	49	85	7	1500	St.	1	C.	2	1
Liverpool (Bidston)	999.6	+3	W'N	4	bc-	46	92	7	2500	St.Cu.	4	-	4	•
Chester (Sealand)	999.7	+5	WSW	2	b-	46	85	5	4000	St.Cu.	1	-	1	•
Harrogate	998.6	+3	SW	3	b	44	92	7	-	-	0	-	0	•
Spurn Head	997.3	+2	NW	2	bc-	46	97	5	4450	St.	6	-	6	1
Birmingham (Edgbaston)	1001.0	+4	WSW	3	~~bc~~ b-	45	85	5	2500	St.	1	-	1	•
Cranwell	999.5	+5	WSW	1	b	42	97	6	4000	St.Cu.	2	-	2	•
Gorleston	999	+5	W'S	2	b	44	92	5	-	-	0	-	0	0
Valentia (Cahirciveen)	995.5	-5	S'E	4	c	50	85	8	1600	St.	7	A.St.	10	4
Roches Point	999.9	0	SW	3	c	51	97	8	1500	Cu Nb.	9	-	9	2
Pembroke (St. Ann's H.)	1001.4	+2	WSW	2	bc	51	92	8	4000	Cu.	6	-	6	2
Ross-on-Wye	1002.0	+4	W	3	b-	46	85	8	4000	St.Cu.	1	C.	1	•
Leafield	1001.1	+3	WSW	2	b-	43	85	8	4000	St.Cu.	1	-	1	•
Winchester (Worthy Dn.)	1002.2	+5	W'S	3	b	45	92	7	4000	St.Cu.	1	-	1	•
S. Farnborough	1001.3	+5	WSW	1	b-	45	92	7	-	-	0	-	0	•
London (Kew Obsy.)	1001.1	+4	SW	2	mmb	48	92	4	-	-	0	-	0	•
Croydon	1000.8	+5	WSW	3	b/m	48	85	5	800	St.Cu.	5	-	5	•
Shoeburyness	1000.6	+8	W	3	bc-	48	92	5	800	St.	6	-	6	•
Clacton-on-Sea	999.8	+5	NW	4	c	47	92	6	4000	St.	8	-	8	1
Felixstowe	999.8	+5	W'S	2	b	46	92	6	-	-	0	-	0	0
Lympne	1000.9	+5	W	3	c	46	92	5	2500	St.Cu.	8	-	8	•
Selsey (St. Mary's)	1003.8	+1	WSW	4	bc	51	92	8	4000	St.Cu.	3	A.Cu.	7	3
Falmouth (Pendennis)	1004.7	+2	W'S	2	bc-	48	92	7	4000	Cu Nb	3	-	3	0
Falmouth (Mt. Batten)	1004.1	+4	NW	3	b-	49	92	7	4000	St.Cu.	1	C.	1	0
Portland Bill	1002.7	+6	W'N	4	c+	52	75	8	2500	St.Cu.	10	-	10	4
Southampton (Calshot)	1002.9	+6	W'S	3	b-	46	85	8	4000	St.Cu.	1	-	1	0
Dungeness	1001.5	+6	NW	2	c	48	92	7	2500	St.Cu.	10	-	10	3
Guernsey (St. Peter Port)	1006.8	+6	W	2	bc+	52	85	8	4000	St.Cu.	6	-	6	3

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility. (TO-DAY.)
Kew	18	c m c	m cmb	b m w	50	40	28	0.2	-	0.2	*	*	7
Croydon	244	o f f c	c m bc	b c m p c	49	41	37	0.2	Tr.	0.3	*	*	9
Greenwich (Royal Obsy.)	149	~~c b m b~~	~~c m b~~	~~b m w~~	49	40	28	Tr.	Tr.	0.0	83	81	9
City (Bunhill Row)	80	cbm	cbm	bmbmbw	*	*	*	*	*	0.1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	51	42	33	-	-	0.3	79	79	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.4	*	*	*
Camden Square	116	c	bcc	*	49	44	*	Tr.	c	*	*	88	*
Kensington Palace	80	bc	oc	*	50	42	31	-	0.1	*	(At 18h. 45.)	87	*
Hampstead Observatory	450	*	*	*	48	39	31	Tr.	0.3	0.2	*	91	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.2	18h 1st	<0.3	1-5h 2nd

Kew Observatory

Max.	Time.	Min.	Time.
0.4	17-18h 1st	<0.1	5-7h 2nd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 1st 17 h. 00 m. to 2nd 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	9.46	71
δ Ursae Minoris	13.45	4.30	33

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

2nd 3rd Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.45	11.42	15.40
	7.46	11.43	15.39
Greenwich	7.46	11.49	15.52
	7.48	11.50	15.52
Wick	8.40	12.2	15.24
	8.42	12.2	15.23
Valentia	8.29	12.30	16.31
	8.31	12.31	16.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
z hoar frost. y dry air.
x 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; − = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

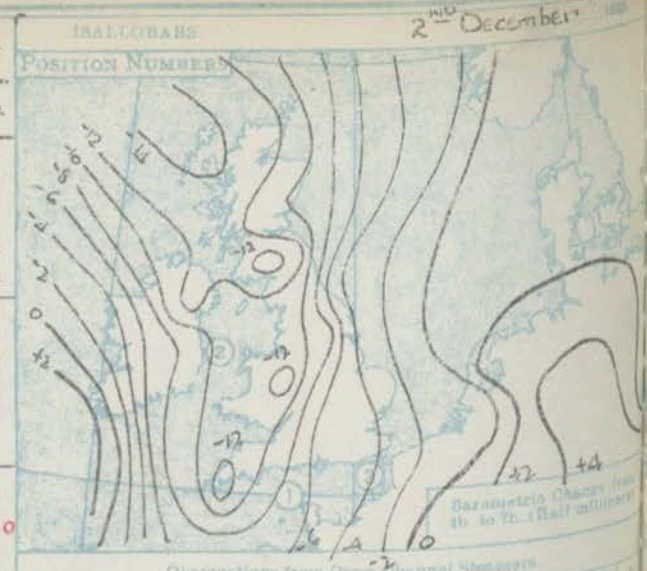
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	3½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. (1 ST)	Weather. 13h.-18h. (1 ST)	Weather. 18h.-1h. (1 ST) to 1h. (2 MO)	Weather. 1h.-7h. (2 MO)	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun (1 ST) Hours.
Lerwick	c or o/o	or r c b c	bc	bcc	48	42	•	3	<8.00	Tr.	<21.00	0.0
Stornoway	c	f c b c	c	r-d	46	45	•	-	-	12	2.30	0.6
Wick	b-bc	b-bc	c	c or r	46	38	•	-	-	0.3	5.30	•
Tiree	c	c	1d R	Rr	49	47	43	-	-	10	24.00	0.2
Nairn	d c b c	bc	b c q	bc	45	38	•	0.3	<8.00	-	-	1.4
Aberdeen	c p r c b c	b u z b c	b c b u	b c c r	47	38	31	Tr.	9.00	0.3	6.30	3.2
Kalin Head	b b c c	c b c	c r	circid m	48	43	•	-	-	4	22.00	0.9
Renfrew	c b b c	c m c w	c b w c	c c R R q	50	40	35	-	-	8	2.30	3.1
Edinburgh (Inchkeith)	c c p b c	b c c	o c b c	b c c	47	43	35	Tr.	11.00	-	-	3.8
Leuchars	c b c b	b c c	c b c c	c r r	49	38	30	-	-	2	04.30	4.8
Eskdalemuir	c b c	b c w	c w m	a w r r	47	40	39	-	-	4	2.30	2.7
Tynemouth	o b r b	b b m	b c m	b c o	51	42	39	0.4	<8.00	-	-	•
Blacksod Point	c	p c	r r	r r	51	50	•	Tr.	•	22	•	•
Donaghadee	b c	b c b	b b c c	o r r	49	42	•	-	-	6	1.30	•
Birr Castle	c b c c	c b c	b c o R r	o r r	48	46	41	-	-	12	<21.00	1.0
Holyhead	c m b c j p	c b c	b b c i r	c m r	51	47	43	-	-	4	22.00	1.7
Liverpool (Bidston)	m p c	m c b c	b c b w	c p b c	49	42	39	Tr.	9.00	0.3	3.30	1.7
Chester (Sealand)	p r c m	c b m	b b c	c r m	50	40	34	0.4	8.00	0.1	6.30	1.2
Harrogate	c b c	b c b	b	b b c c i r	49	40	33	-	-	0.2	5.30	2.2
Spurn Head	b c o f f b c	b c m z	b c m	b c c	47	40	•	-	-	-	-	3.7
Birmingham (Edgbaston)	c z f	c b c	b	b b c c	48	39	37	-	-	-	-	0.5
Cranwell	o r c f c	f c b c b	b	b c	46	39	35	01	-	Tr	-	1.6
Gorleston	o r f f o	f o c b c	b m	b m b c	50	39	36	0.2	9.00	-	-	0.0
Valentia (Cahirciveen)	c p c	c p c	r r	R R r r	51	50	48	1	<8.00	31	<21.00	0.1
Roches Point	c	c	c o r r	o r r	52	49	•	-	-	11	2.30	•
Pembroke (St. Ann's H.)	c b c	b c	b c c r	o r r q	54	50	•	-	-	12	<21.00	3.7
Ross-on-Wye	c b b c	c b c	b	c o q R	53	43	32	-	-	0.3	6.30	3.3
Leafield	c b c	c c b c	b	b b c c	49	37	32	Tr	-	0.1	5.30	3.4
Winchester (Worthy Dn)	c b c m	b c m c b	b m b c	b c c r	51	36	30	-	-	0.1	6.30	1.6
S. Farnborough	o r r o c	c b	b	b c o r	50	39	27	1	<8.00	0.1	5.30	0.3
London (Kew Obsy.)	c m c m m	c m b m	b m b w	b w c w	50	40	28	0.2	<8.00	-	-	0.2
Croydon	c f f m c m	c m m b c	b c b m w	b w m c	49	41	37	0.2	<8.00	Tr.	-	0.3
Shoeburyness	o m r	b c m	b m	b w m c q	49	40	33	1	<2.30	-	-	0.3
Clacton-on-Sea	o g r c m	c b c c m	c b c m	b c m b c	50	43	38	9	<8.00	-	-	0.3
Felixstowe	o r c r	c b c b z	b	b c c w	49	43	40	5	<8.00	Tr.	-	0.7
Lympne	c r o d d m	c m m	c b c b f	b f b c c	49	40	31	3	<8.00	Tr	-	0.2
Scilly (St. Mary's)	b x b c	b c	b c c	c o r r m	53	50	•	0.2	<8.00	7	2.30	6.2
Falmouth (Pendennis)	b a p	b c	b c c r q	o r r m	54	48	•	Tr.	<8.00	6	<21.00	6.0
Plymouth (Mt. Batten)	c b c	c b	b c	c o r q	54	48	45	-	-	3	3.30	3.7
Portland Bill	b c	b c c o	b b c c	c i p o	53	51	•	-	-	1	1.30	•
Southampton (Calshot)	c m b c	c b c b w	b w	b c c	52	42	38	-	-	-	-	2.7
Dungeness	d o r c	b c	c b c b w	b b c c	51	45	•	0.1	<8.00	-	-	•
Guernsey	b c b	b b c c o	c b c	b c c r	54	48	45	-	-	0.2	6.30	5.4



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force	Weather.	Temp. Air	Temp. Sea
3	2nd 2h	Dieppe	W	4	bc+	54	52

GENERAL INFERENCE.

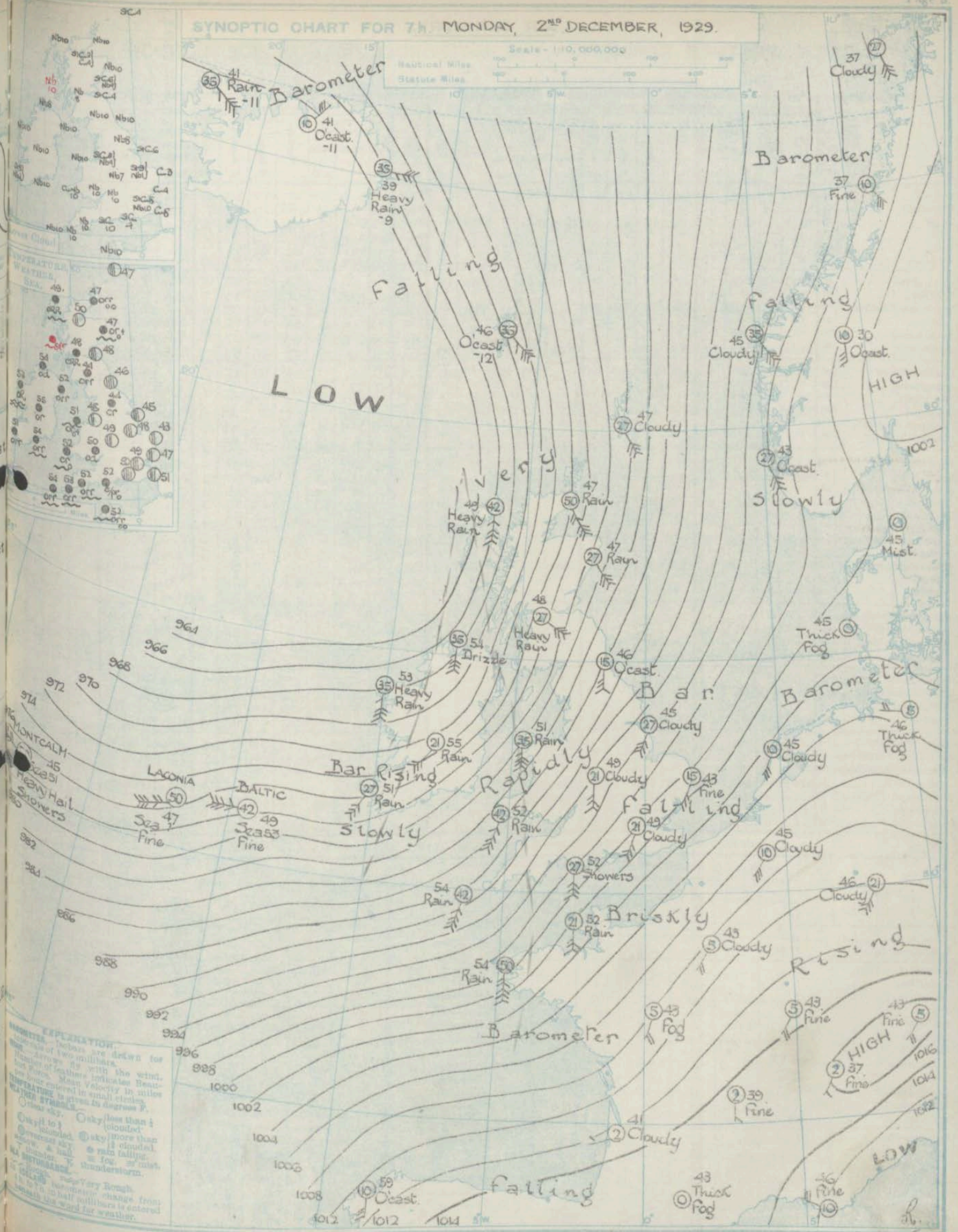
A deep depression northwest of Ireland will probably move northeast and secondary depressions may approach from southwest. In most districts weather will be unsettled and stormy, gales from south or west being experienced locally, but a somewhat colder air current spreading from the West will bring showers and some bright periods.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 2nd December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southerly or southwesterly, fresh or strong, perhaps gale force at times in exposed places; dull or cloudy and rainy; perhaps brighter intervals and showers later; mild.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind southwesterly, fresh or strong, gale force at times locally, veering later; cloudy and rainy at first, then showery with some bright intervals; mild, but temperature decreasing later.	South cone hoisted at 19 h. yesterday in districts 5, 6, 17, 19 and 20, at 22h.30m. yesterday in districts 7, 8, 13A and 18, and at 0201 today in districts 1, 2, 10, 11, 13B, 15 and 16.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind southerly or southwesterly, fresh or strong, perhaps gale locally at times, veering; cloudy or dull; rainy; probably showery later; mild, but temperature decreasing somewhat.	
12. S.W. Scotland & Isle of Man 13 (A. W. Scotland, B. N.W. Scotland)	Wind southwesterly or westerly, fresh to gale; dull and rainy at times; showers, perhaps with hail, and brighter intervals later; moderate temperature.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind southeast or south, fresh to gale, veering and moderating later; cloudy or dull; rain moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwesterly or westerly, fresh to gale; variable weather; showers, perhaps with hail, some bright intervals; moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

† Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 2nd December 1929. No. 336

Observations at 1h. G.M.T. 2nd December

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	34	989.0	0	SSE	3	bc	46	85	8	1500	StCu	3	-	3
Stornoway	30	981.4	-7	S	8	c	*	*	6	*	*	*	*	10
Wick	81	986.4	-6	SE	5	c	46	85	8	2500	StCu	7	Ast	9
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	980.3	-13	SSE	7	cr.	45	92	7	4000	Nb	2	Ast	10
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	199	991.9	-4	SW	2	bc	46	75	8	-	-	0	Ast	4
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	62	995.3	-3	SW	2	bc	43	92	6	800	St	4	-	4
Blackpool Point	18	976.5	-9	S	8	oR	53	92	6	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	279	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	994.2	-6	S	5	c/r	50	92	6	450	St	7	Ast	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	998.5	0	SW'W	3	ambc	41	97	4	800	St	5	-	5
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1000.1	-1	SW'S	4	b	41	92	7	-	-	0	-	0
Gorleston	14	1001.9	+1	SW'W	3	b	42	97	6	-	-	0	-	0
Valentia (Cahirciveen)	30	981.9	-7	SSE	7	oRR	62	92	8	*	St	10	-	10
Rosslare Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	995.3	-4	SW	6	c/pr	62	85	7	1500	StCu	10	-	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Park)	273	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	297	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	41	*	*	*	*	*	*	*
Croydon	264	1003.6	+1	SW'S	3	b	41	97	6	-	-	0	Ast	1
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	369	1004.2	+3	SW	2	ffb	40	97	3	-	-	0	-	0
Scilly (St. Mary's)	163	997.3	-8	SSW	7	c	52	92	7	4000	StCu	3	-	3
Falmouth (Pendennis)	220	1001.2	-5	SW	6	c+	51	92	7	4000	StCu	4	Ast	9
Plymouth (Mt. Batten)	83	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1001.6	-1	SSW	5	c/p	52	85	8	4000	StCu	8	-	8
Southampton (Calshot)	10	1003.8	0	SW	3	b+	49	85	8	4000	StCu	2	-	2
Dungeness	20	1004.0	+2	W	1	b-	46	92	7	-	-	0	-	0
Guernsey (St. Peter Port)	173	1006.4	-1	SW	3	b-	50	92	8	-	-	0	-	0

Observations at 7h. G.M.T. 2nd December

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-8
Lerwick	980.9	-8	SSE	6	c	47	85	8	1500	StCu	4	ACu	8	*
Stornoway	966.0	-15	S	8	oRR	49	97	6	1500	Nb	10	-	10	7
Wick	976.2	-12	SSE	9	orr	47	92	8	1500	Nb	10	-	10	6
Tiree	966.0	-10	S'W	8	orr	50	97	6	2500	Nb	10	-	10	7
Nairn	977.6	*	WSW	2	bc	50	75	7	2500	Cu	6	-	6	*
Aberdeen	980.7	-10	SSE	6	or+	47	92	6	1500	Nb	10	-	10	4
Malin Head	977.3	-11	S	7	cd	54	97	6	2500	Nb	8	Ast	10	4
Renfrew	977.3	-12	ESE	6	cRR	48	92	7	1500	Nb	8	Ast	10	*
Edinburgh (Inchkeith)	986.0	-12	SSE	4	c	48	75	8	4000	StCu	4	Ast	8	1
Leuchars	980.3	-10	SE	3	c/r	47	85	7	800	StCu	10	-	10	*
Eskdalemuir	980.5	-14	S'E	6	orr	44	92	6	800	Nb	10	-	10	*
Tynemouth	987.0	-4	S	4	o	46	85	7	1500	Nb	10	-	10	2
Blackpool Point	968.6	-3	S	7	oR	53	85	6	*	Nb	10	-	10	8
Donaghadee	974.3	-10	SW	3	orr	52	92	7	1500	Nb	10	-	10	2
Birr Castle	973.7	-7	SW	5	o/r	55	97	7	2500	Nb	10	-	10	*
Holyhead	982.1	-11	S	7	or+	51	97	5	800	Nb	10	-	10	6
Liverpool (Bidston)	984.8	-11	SSE	5	bc+	48	85	8	2500	Nb	7	-	7	*
Chester (Sealand)	986.5	-12	S'E	6	cr.	49	85	6	800	St	8	-	8	*
Harrogate	988.6	-9	SSE	4	cr	44	97	5	2500	Nb	8	Ast	10	*
Spurn Head	993.4	-3	SSW	6	c	45	97	6	2500	StCu	6	Ast	9	3
Birmingham (Edgbaston)	992.2	-7	S	5	c+	49	85	8	1500	Nb	7	Ast	9	*
Cranwell	994.1	-6	S'E	4	o	44	92	7	2500	St	10	-	10	*
Gorleston	999.7	-2	SSW	4	bc+	43	92	6	4000	Cu	3	ACu	5	0
Valentia (Cahirciveen)	975.8	+2	SW	6	orr	51	85	6	1500	St	10	-	10	*
Rosslare Point	978.0	-8	SW	6	orr	54	97	6	800	Nb	10	-	10	7
Pembroke (St. Ann's H.)	984.3	-11	SSW	8	cr.	52	97	6	800	CuNb	10	-	10	6
Ross-on-Wye	991.0	-10	~~SSE~~ S	6	od	50	85	7	2500	Nb	10	-	10	*
Leafield	993.6	-6	S	6	or.	48	92	8	1500	Nb	10	-	10	*
Winchester (Worthy Park)	998.0	-5	S	5	cr.	50	92	7	1500	St	10	-	10	*
S. Farnborough	997.5	-6	S	4	o/r	50	85	7	800	Nb	10	-	10	*
London (Kew Obsy.)	998.4	-6	SSW	5	c	49	85	8	1500	StCu	8	Ast	9	*
Croydon	999.2	-5	SW'S	5	c+	49	85	7	800	St	8	Ast	9	*
Shoeburyness	1000.0	-5	SSW	5	c+	47	97	8	1500	StCu	6	Ast	8	2
Clacton-on-Sea	1000.5	-4	SSW	4	bc	47	92	7	4000	Cu	4	-	4	4
Felixstowe	1000.2	-4	S'E	5	c	48	92	8	-	-	0	ACu	8	*
Lympne	1001.4	-4	S	5	c+	48	92	8	1500	StCu	9	-	9	*
Scilly (St. Mary's)	987.5	-9	SSW	8	orr	54	97	5	2500	Nb	10	-	10	7
Falmouth (Pendennis)	989.9	-12	SSW	9	orr	53	97	6	2500	Nb	10	-	10	6
Plymouth (Mt. Batten)	992.7	-10	SSW	8	orr	52	97	6	800	Nb	10	-	10	6
Portland Bill	995.1	-8	S	6	c/pr.	52	92	8	1500	StCu	10	-	10	3
Southampton (Calshot)	993.1	-5	SW	6	c	52	85	8	2500	StCu	4	Ast	10	4
Dungeness	1000.4	-6	SSW	5	c+	51	92	8	1500	Cu	8	CuCu	10	6
Guernsey (St. Peter Port)	1000.4	-7	S	5	or.	52	85	7	1500	Nb	10	-	10	*

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 1st December 1929

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-30 to 9h.-1 °F.	Temperature. Max. 9h.-17h. 1 °F.	Rainfall†. Night 17h.-9h. 30 -1 mm.	Rainfall†. Day 9h.-17h. 1 mm.	Sunshine. Sunrise to Sunset. 1 hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	44	49	7	-	3.8
Douglas (I. o. M.)	b	c	45	50	-	-	4.0
Llandudno	c	c	45	51	3	-	1.6
Colwyn Bay	cobc	cbcc	45	51	0.5	-	0.5
Rhyl	rbc	cbc	42	52	2	-	0.4
Wallasey	cbc	bcab	45	49	0.5	Trace	0.8
Southport	cobc	cbco	45	50	0.1	-	3.5
Blackpool	cbc	bcc	45	51	0.2	-	3.0
Morecambe	b	bcab	44	49	0.5	-	3.4
Ilkley	c	c	42	47	1	-	0.0
Cleethorpes	cbc	bcf	36	47	Trace	-	2.8
Mablethorpe	cbm	bbcfm	37	49	0.3	-	3.5
Skegness	bcobc	bcf	39	46	Trace	-	0.0
Aberystwyth	rbc	cbc	47	50	3	-	0.9
Bath	rcbc	bcc	45	52	2	Trace	3.2
Cheltenham	or	bc	44	50	0.3	0.3	0.4
Leamington Spa	cd	c	38	49	0.5	?	0.0
Lowestoft	oRc	c	45	49	0.2	14	0.1
Harwich & Dovercourt	roc	rocbc	47	49	7	2	0.8
Maldon	rc	c	44	49	1	2	0.1
Ilfracombe	bcc	cbcc	47	52	1	-	1.3
Bude	cbc	cbc	44	53	1	-	2.9
St. Ives	c	c	47	52	1	-	3.4
Penzance	b	bc	46	54	2	-	5.2
Paignton	bbc	bc	44	54	-	-	2.2
Torquay	bcwbbc	cbcm	45	55	-	-	2.5
Jersey	bc	bc	49	55	9	-	5.0
Weymouth	b	b	46	54	3	-	5.2
Bournemouth	cb	bbc	44	52	11	-	4.2
Ventnor	prcb	bbcz	46	52	9	-	3.4
Portsmouth (S'thsea)	cb	bcb	47	53	10	-	2.6
Bognor Regis	c	bc	46	53	0.5	-	0.8
Littlehampton	cbc	oc	47	53	-	-	1.5
Worthing	c	cbcc	47	52	3	-	1.3
Brighton	cbcb	bc	48	52	1	-	1.0
Eastbourne	cbc	bcc	48	52	5	-	1.7
Hastings‖	ombc	bc	47	53	0.3	-	2.2
Folkestone	rcz	c	49	51	3	-	0.3
Dover	cir	cirb	50	51	Trace	Trace	0.2
Deal	cbc	oc	48	51	-	-	0.2
Tunbridge Wells	bc	o	45	49	13	-	0.5
Ramsgate	oc	c	47	50	-	-	0.2
Margate	cb	bc	48	50	Trace	Trace	0.0
Southend	omro	ocm	46	49	0.4	1	2.2

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* Information not usually received. ‡ The observations at 1h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 1.

§ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‖ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24848 Tuesday 3rd December 1929.

Observations at 13h. G.M.T. 3rd

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	970.5	-15	SSE	8	Dr.r.	47	92	7	1500	Nb	10	-	10	•
Stornoway	962.8	+2	SW	6	OR	45	85	6	1500	Nb	10	-	10	•
Wick	966.4	-8	SSE	8	O	46	97	7	1500	Nb	10	-	10	•
Tiree	968.9	+8	W'S	8	bc	47	65	7	2500	Stcu	4	-	4	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	970.7	-10	SSE	6	Orr	49	92	5	800	Nb	10	-	10	2
Malin Head	973.4	+10	SW	6	bc/PR	46	65	7	2500	CuNb	5	Fcu	6	•
Renfrew	974.8	+6	W	5	orr	45	92	6	2500	St	10	-	10	2
Edinburgh (Inchkeith)	971.4	-8	SW	5	orr	50	85	8	800	Nb	10	-	10	•
Leuchars	971.1	-7	S	6	crr	50	92	7	1500	Nb	9	FSt	10	2
Eskdalemuir	975.1	-2	WSW	6	orr	47	85	6	1500	Nb	10	-	10	2
Tynemouth	977.7	-8	SSW	6	o/p	49	92	6	1500	Nb	10	-	10	•
Blacksod Point	975.6	+4	S	6	CHR	45	65	8	•	CuNb	10	-	10	•
Ronaghadee	976.2	+3	W	3	bc	48	75	8	4000	Stcu	6	-	6	•
Birr Castle	979.9	+5	SW	4	b	48	65	7	4000	Cu	2	-	2	•
Holyhead	982.1	+8	W'S	6	c/r	48	75	8	1500	St	8	FSt	9	2
Liverpool (Bidston)	980.7	-1	W	5	or-	51	85	7	1500	Nb	10	-	10	•
Chester (Sealand)	980.7	-2	WSW	5	Cr.r.	53	75	6	800	Nb	8	FSt	10	2
Harrogate	980.3	-5	SSE	5	crr	50	92	5	2500	Nb	9	FSt	10	•
Spurn Head	983.1	-8	SSW	7	crr	49	97	6	4000	Nb	6	FSt	10	•
Birmingham (Edgbaston)	983.3	-7	SSW	5	orr	52	92	5	1500	Nb	10	-	10	2
Cranwell	984.6	-10	S	6	Dr.r.	50	92	7	800	Nb	10	-	10	2
Gorleston	982.3	-6	SSW	8	orr	49	97	6	800	Nb	10	-	10	•
Valentia (Cahirciveen)	980.9	0	SSW	7	O/pr	48	65	8	2500	Nb	7	FSt	9	2
Roches Point	984.2	+7	W	3	b	50	75	7	2500	CuNb	2	-	2	•
Pembroke (St. Ann's H.)	983.9	+4	W	6	C-	51	75	7	2500	CuNb	3	Fcu	8	•
Ross-on-Wye	984.0	-6	SW	6	OR	55	92	6	800	Nb	10	-	10	2
Leafield	985.9	-7	S	6	ORR	51	97	7	800	Nb	10	-	10	2
Winchester (Worthy Dn.)	982.9	-10	SW	7	orr	52	97	5	220	Nb	10	-	10	2
S. Farnborough	990.3	-9	S	5	orr	52	92	6	450	Nb	10	-	10	2
London (Kew Obsy.)	990.5	-10	SW	6	Cr.r.	52	92	6	800	Nb	9	FSt	10	2
Croydon	991.7	-10	SSW	6	Dr.r.	51	92	6	450	Nb	10	-	10	2
Shoeburyness	993.5	-9	SSW	7	Cr.r.	51	97	8	800	Nb	7	FSt	9	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	993.3	-8	SSE	7	orr	50	92	7	800	Nb	10	-	10	2
Lympne	995.1	-8	S'E	6	orr	49	97	5	220	Nb	10	-	10	2
Scilly (St. Mary's)	989.0	+4	W	7	bc-	51	85	7	4000	Stcu	5	-	5	•
Falmouth (Pendennis)	989.4	+8	WSW	5	C	52	85	7	4000	Stcu	10	-	10	•
Plymouth (Mt. Batten)	989.1	+1	W	5	CR	52	85	7	2500	Nb	7	FSt	10	2
Portland Bill	987.4	-6	SSW	8	ORR	55	97	5	1500	Nb	10	-	10	•
Southampton (Calshot)	990.1	-10	SSW	8	orr	53	92	6	450	Nb	10	-	10	2
Dungeness	995.7	-8	SSW	7	orr	53	92	7	2500	Nb	10	-	10	•
Guernsey (St. Peter Port)	993.8	-6	SSW	5	DR-	55	92	5	800	Nb	10	-	10	•

Observations at 18h. G.M.T. 3rd

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	969.1	-3	SSW	4	Dr.r.	45	85	7	1500	Nb	10	-	10	•
Stornoway	969.3	+6	SW	6	O/PR	40	85	6	1500	Nb	10	-	10	5
Wick	972.7	+8	WSW	4	bc	43	85	8	2500	Stcu	3	CiSt	5	5
Tiree	974.4	+4	WSW	6	C	45	75	7	2500	CuNb	4	CiSt	8	6
Nairn	974.9	•	W	2	bc	41	75	8	1500	St	4	-	4	•
Aberdeen	977.6	+9	SW	3	b-	43	75	7	4000	Stcu	1	-	1	4
Malin Head	978.0	+5	SW	6	c/rm	41	92	7	2500	CuNb	8	-	8	6
Renfrew	980.1	+7	SW	4	b	44	75	7	4000	Cu	1	-	1	•
Edinburgh (Inchkeith)	979.2	+6	WSW	4	bc	44	75	8	1500	St	3	-	3	1
Leuchars	978.3	+8	SW	5	b	42	75	8	-	-	0	-	0	•
Eskdalemuir	982.9	+9	SSW	3	bc+	37	92	8	2500	Cu	6	-	6	•
Tynemouth	983.4	+6	W	3	b/r	46	75	7	-	-	0	-	0	2
Blacksod Point	978.7	+2	S	6	c	46	65	7	•	CuNb	10	-	10	7
Ronaghadee	980.8	+3	W	3	Cr.	45	75	7	1500	Nb	9	-	9	2
Birr Castle	984.6	+7	WSW	4	b+	40	85	7	4000	CuNb	2	-	2	•
Holyhead	985.9	+4	SW	5	C/Pn	45	85	6	2500	St	9	-	9	4
Liverpool (Bidston)	986.8	+7	SWS	3	b	46	75	8	1500	Nb	1	-	1	•
Chester (Sealand)	987.0	+7	SW'S	2	b	46	75	7	-	-	0	-	0	•
Harrogate	986.4	+7	SW	4	b	43	85	7	-	-	0	-	0	•
Spurn Head	987.0	+3	W	2	bc-	40	92	7	4000	Nb	4	-	4	5
Birmingham (Edgbaston)	990.6	+9	WSW	4	b-	46	75	8	-	-	0	-	0	•
Cranwell	980.2	+12	WSW	4	bc-	47	92	7	2500	Stcu	3	-	3	•
Gorleston	989.2	0	SSW	7	Dr.r.	52	97	6	800	Nb	10	-	10	5
Valentia (Cahirciveen)	986.6	+6	SW	6	b	45	65	8	2500	Cu	2	-	2	7
Roches Point	988.6	+6	W	3	bc-	45	92	8	2500	CuNb	4	-	4	6
Pembroke (St. Ann's H.)	987.7	+4	W	6	bc-	49	75	7	1500	CuNb	3	-	3	7
Ross-on-Wye	991.1	+6	W'S	3	C+	48	75	6	2500	St	8	-	8	•
Leafield	991.3	+8	SW	4	b-	45	92	8	2500	Stcu	1	-	1	•
Winchester (Worthy Dn.)	993.9	+7	SW	3	b-	48	92	8	-	-	0	-	0	•
S. Farnborough	992.8	+8	WSW	4	b-	49	92	8	-	-	0	-	0	•
London (Kew Obsy.)	992.3	+7	SW	4	bc/r	51	92	7	-	-	0	Fcu	6	•
Croydon	992.8	+5	WSW	4	bc/r	52	85	6	800	Nb	6	-	6	•
Shoeburyness	991.8	+1	SSW	7	Dr.r.	54	97	6	450	Nb	10	-	10	•
Clacton-on-Sea	990.9	-2	SSW	6	Od	50	97	6	2500	St	10	-	10	5
Felixstowe	991.2	0	SSW	6	Od.d.	51	97	7	800	Nb	10	-	10	6
Lympne	992.8	+1	SW	6	Dr.r.	51	97	5	220	Nb	10	-	10	•
Scilly (St. Mary's)	993.0	+5	W	7	bc	50	75	8	4000	CuNb	4	-	4	7
Falmouth (Pendennis)	994.0	+5	WSW	6	bc/PR	50	85	7	4000	CuNb	4	Fcu	7	4
Plymouth (Mt. Batten)	992.6	+5	W	5	C	51	75	8	2500	CuNb	8	-	8	5
Portland Bill	992.8	+7	WSW	7	bc-	53	75	8	2500	Stcu	4	-	4	7
Southampton (Calshot)	994.1	+5	WSW	4	b-	51	92	7	1500	St	10	-	10	3
Dungeness	992.2	-3	SSW	7	orr	52	92	7	2500	Nb	10	-	10	5
Guernsey (St. Peter Port)	990.8	+6	W	3	bc-	53	85	6	2500	Stcu	6	-	6	7

LONDON OBSERVATIONS

Day 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 11h.-18h., other stations.

	Height above M.S.L. in feet	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cr.q	crqbc	bbcm	54	37	26	5	0.1	0.0	*	*	5
Croydon	244	cr.r.	or.rbc	bmbc	54	27	33	9	Tr	0.0	*	*	5
Greenwich (Royal Obsy.)	149	cdd	cddc	cb3c	54	36	24	3	Tr	0.0	94	85	5
Oxy (Bunhill Row)	20	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	55	37	29	4	-	0.0	86	75	*
Regent's Pk. (Botanic Gdns.)	148	*	*	*	*	*	*	*	-	0.0	*	*	*
Camden Square	110	cor	orc	*	54	39	*	5	-	*	(At 18h.) 93	95	*
Kensington Palace	60	odr	or	*	54	36	27	4	-	*		77	*
Hampstead Observatory	450	*	*	*	53	39	26	6	Tr	0.0	*	90	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	1.2	19h 2nd	<0.3	1h-6h 3rd

Kew Observatory	Max.	Time.	Min.	Time.
	0.1	19h 2nd	<0.1	3h 3rd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 2h 17m 00.0s to 3h 06m 45.0s

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	12.58	94
δ Ursae Minoris	13.45	12.51	93

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

1st and 16th December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.46	11.43	15.39
Greenwich	7.48	11.43	15.39
Wick	7.49	11.50	15.52
Valentia	8.43	12.02	15.23
	8.43	12.03	15.22
	8.31	12.31	16.30
	8.32	12.31	16.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. o wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
p precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
v unusual visibility. w dew.
z hoar frost. y dry air.
x 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.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

With present weather is combined, whenever possible, the general character of the weather
⊥ "solidus" divides actual existing weather from preceding conditions, thus:—be/r = fair weather after rain; — = has decreased; + = has increased.

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

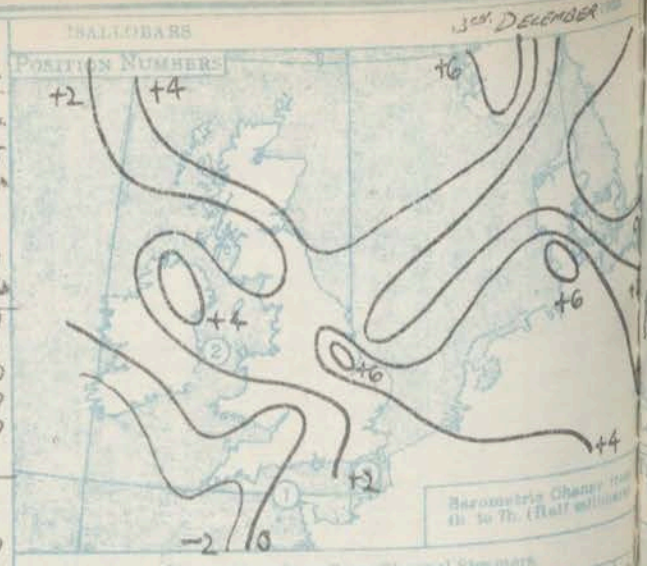
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2¼ "
6. Moderate.	6¼ "
7. Good.	12¼ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h.	Weather. 18h.-18h.	Weather. 18h. to 1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. began.	Sun Hours.
Lerwick	cor₀r₀	or₀r₀	bcb	bbc	48	42	•	15	<8.00	1	<21.00	0.0
Stornoway	r	r	bccprc	cbc	51	39	•	10	<8.00	2	<21.00	0.5
Wick	orro	oirbc	b-bc	bbc	49	40	•	4	<8.00	-	-	•
Tiree	crbc	cpr	pr,bc	bl,Rq	52	39	35	8	<8.00	5	<21.00	0.0
Nairn	bcqiro	cbcq	bcd₀	bc	53	38	•	0.5	12.30	Tr	<21.00	0.1
Aberdeen	orrm₀qq	orir₀cb	borc	cb	50	38	35	6	<8.00	1	24.00	0.0
Malin Head	cidmbcPR	bcc	cidicbcp	bcHrbc	54	41	•	4	<8.00	1	<21.00	2.1
Renfrew	orRqm₀	or₀q b	boRcp	bccp	53	40	37	19	<8.00	5.2	<21.00	0.1
Edinburgh (Inchkeith)	cir₀	orrcbc	bcPRb	bbcpr	54	39	38	1	12.30	~~0.2~~	22.00	0.0
Leuchars	c₀rrcrrq	cr₀r₀qcb	bbcorrc	cbcbq	52	37	33	5	<8.00	2	22.00	0.0
Eskdalemuir	crrm₀	cbbcc	bcoqPRh	bccir	50	33	32	28	<8.00	8	<21.00	0.0
Tynemouth	oir₀q	oir₀qbc	b	bbc	51	42	37	03	<8.00	-	-	•
Blacksod Point ...	phqc	phqc	phlqc	phqc	54	41	•	3	•	2	•	•
Donaghadee	ir₀bc	bcir	ir₀b	b	53	39	•	6	<8.00	2	18.00	•
Birr Castle	oirbcb	bciRbl	blcir	cir₀b	56	37	30	6	<8.00	3	<21.00	3.0
Holyhead	rriR	cbbcqprh	clbq	b,HPRkq	54	43	42	14	<8.00	3	4.30	1.5
Liverpool (Bidston) ...	pod R	oPb	lcpbkq	b	52	41	37	2	2.00	1	<21.00	0.8
Chester (Sealand) ...	r₀r₀qR	mrcv₀b	bbcrqR	bccb	54	41	36	2	2.00	2	<21.00	1.1
Harrogate	corriR	crrcb	b	bbcp	51	38	33	11	<8.00	0.1	4.30	0.0
Spurn Head	crrq	crrqbc	bc	bcw	51	41	•	5	2.00	Tr	-	0.0
Birmingham (Edgbaston)	r₀r₀	orcbc	bpr₀	b	54	39	36	6	<8.00	0.3	<21.00	0.2
Cranwell	cr₀r	r₀rcrp	bcb	bw	53	34	31	4	<8.00	0.1	-	0.0
Gorleston	bcco₀c₀q	or₀r₀qf	or₀bcbq	b	52	40	36	4	11.00	0.4	<21.00	0.0
Valentia (Cahirciveen)	cirbcycp₀	cphbcbl	prhlRhll	ccPRq	51	42	40	2	<8.00	11	<21.00	2.3
Roches Point	orbcb	bcprphbc	bcptc	tlPhbc	54	42	•	3	<8.00	6	<21.00	•
Pembroke (St. Ann's H.)	orrqc	cbcqr	bcp₀l	bcd₀qrl	54	48	•	12	<8.00	Tr	<21.00	0.9
Ross-on-Wye	mrqrrq	RcbC	bclpb	b	55	42	32	7	<8.00	0.6	<21.00	0.6
Leafield	corRR	orcb	bw	bw	53	35	31	11	<8.00	0.2	-	0.0
Winchester (Worthy Dn.)	c₀orrm₀	orrmcbc	b	bbcx	54	32	23	11	<8.00	-	-	0.0
S. Farnborough ...	oir₀rr	orrdkqRc	b	bbcxm₀	54	36	25	2	<8.00	-	-	0.0
London (Kew Obsy.) ...	cr₀q	crqbc	b	bbcm₀x	54	37	26	5	2.00	0.1	-	0.0
Croydon	cm₀c₀c₀r₀	pm₀c₀rrcc	brm₀	bbcw	54	37	33	2	2.00	Tr	-	0.0
Shoeburyness	cir₀q	or₀r₀q	or₀b	bcx	54	33	25	1	<8.00	Tr	<21.00	0.0
Clacton-on-Sea ...	bccr	corod	odrbc	bc	50	41	36	4	2.00	1	<21.00	0.0
Felixstowe	corr	orrddo₀	d₀r₀cbcb	bbc	51	41	36	4	2.00	0.1	<21.00	0.0
Lympne	c₀r₀orrqm₀	or₀m₀q	or₀r₀qcbc	bbc	51	39	31	7	2.00	0.6	<21.00	0.0
Scilly (St. Mary's) ...	0mrrbc	bcp	bcb	bbc	55	48	•	2	<8.00	-	-	2.3
Falmouth (Pendennis)	0mmRq	cbcPq	bcPq	bcq	56	47	•	15	<8.00	0.4	<21.00	1.7
Plymouth (Mt. Batten)	0rrRqc	cqprb	cqb	b,c	55	49	44	3	<8.00	-	-	0.6
Portland Bill	0rRm	orcbc	b	bbc	56	50	•	7	<8.00	-	-	•
Southampton (Calshot)	0rrqprrm₀	cbcb	b	bbc	54	43	39	2	2.00	-	-	0.0
Dungeness	cqrorr	oRr	orbcb	bbc	53	40	•	5	11.00	0.2	<21.00	•
Guernsey	orr	rrcbc	bcb	bbcco	56	43	41	16	<8.00	-	-	0.0



Observations from Cross Channel Steamers

Position	Date and Time	Steamship	Wind. Direc.	Wind. Force	Weather	Temp Air	Temp Sea
2	2nd 10h	Hibernia	SW	7	rr	54	53
3	3rd 2h	Arundel	NW	4	bc	52	52

GENERAL DISPERSION.

A very deep depression off Southwest Iceland is filling up and is almost stationary. Associated secondary disturbances travelling in a northeasterly direction over or in the vicinity of the British Isles will cause changeable weather in most districts. Winds will be from between south and west and strong at times locally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. 3rd December, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind south or southwest, moderate or fresh; variable sky; perhaps occasionalrain or showers; rather high day temperature.	Unsettled and showery.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind south or southwest, fresh, but strong at times locally; probably occasional rain or showers; temperature rather high, then moderate.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind south or southwest, moderate or fresh; variable sky; perhaps occasional rain or showers; moderate temperature.	South Cone still flying.
12. S.W. Scotland & Isle of Man 13. (A) W. Scotland (B) N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind south or southwest, moderate or fresh, perhaps strong locally; changeable weather; occasional rain, or showers of a wintry type with thunder locally; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind south or southwest, fresh or strong locally, veering; some rain; then showers of a wintry type perhaps with thunder; moderate temperature.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1015 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount too small to measure.

SYNOPTIC CHART FOR 7h. TUESDAY, 3RD DECEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles: 100 0 100 200

Statute Miles: 100 0 100 200

Barometer Falling Slowly

Barometer Rising Generally

LOW

LOW.

HIGH.

21 36 O'cast. +0

10 34 Fine +3

0 43 Rain +7

21 39 Rain +?

10 39 O'cast +5

28 45 Fine

10 45 Cloudy.

28 45 Fine

10 36 Rain

5 44 Fine

21 45 Cloudy.

21 42 Fine

15 42 Fine

10 40 Fine

28 45 Heavy rain

15 44 Showers.

21 42 Thunder

10 42 Fine

10 46 Fine

28 50 Fine

21 42 Fine

15 46 O'cast.

5 41 Fine

21 48 Fine

10 46 Fine

21 49 Showers.

10 41 Fine

5 40 Fine

15 51 Fine

0 38 Fine

10 45 Fine

15 52 Fine

15 45 O'cast.

21 50 Fine

0 50 Cloudy.

2 46 Mist

2 54 Cloudy.

2 48 Rain

28 45 Rain

46 5 O'cast.

2 46 Rain.

21 54 Mist

21 48 Cloudy.

10 52 Cloudy.

28 59 Cloudy

21 52 Cloudy

52 15 Cloudy

"LACONIA" 2 47 968 47 Sea

"BALTIC" 15 46 52 Sea. Rain

2970

"MAURETANIA" 35 46 49 Sea Hail Showers.

964 962 960 958 956 954 952 950 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018

SYCu2 Cu5 Cu5 Nb2 St5 SYCu2 St1 Cu Nb1 Nb10 Cu6 Cu2 Cu6 7 SYCu2 Nb2 SYCu2 SYCu1 Cu2 Cu3 SYCu5 Cu2 STCu4 STCu2 SYCu2 SYCu5 STCu5 Nb5 STCu4 4 STCu6 SYCu10

Lower Cloud

TEMPERATURE, WEATHER, SEA.

44 42 42 40 40 44 45 42 42 42 41 41 42 48 42 36 40 49 31 43 41 38 41 39 42 50 50 51 52 50

EXPLANATION.

BAROMETER.—Isobars are drawn to intervals of two millibars.

WIND.—Arrows fly with the wind. Number of feathers indicates Beaufort force. Mean Velocity in miles per hour entered in small circles.

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS.—

○ clear sky. ◐ sky 1/4 to 1/2 clouded. ◑ sky less than 1/2 clouded. ● sky more than 1/2 clouded. ⊕ overcast sky. ● rain falling. ⊗ snow. ▲ hail. ≡ fog. ≡ mist. ⚡ thunder. ⚡ thunderstorm.

SEA DISTURBANCE.—〰 Rough. 〰 Very Rough.

TEMPERATURE.—Sea temperature in degrees F.

TENDENCY.—The barometric change from 4h. to 7h. in half millibars is entered beneath this word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 3rd December 1929. No. 337.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 3rd: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 3rd: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain
Lerwick	34	980.3	+7	S	2	b	45	75	8	1500	StCu	1	–	1	984.6	+5	SW	2	bc	44	75	8	1500	StCu	2	ASt	4	·
Stornoway	80	977.4	0	W	5	c	·	·	7	·	·	·	·	8	981.5	+6	SW	5	bc–	42	85	7	4000	CuNb	3	–	3	4
Wick	81	980.1	+8	SW	4	bc	43	85	8	2500	StCu	4	–	4	985.8	+5	SW	4	bc	42	85	8	2500	StCu	5	Ci St	7	4
Tiree	22	·	·	·	·	·	·	·	·	·	·	·	·	·	985.7	+7	WSW	6	OR	41	97	6	2500	Nb	10	–	10	6
Nairn	52	·	·	·	·	·	·	·	·	·	·	·	·	·	986.4	·	W	1	bc	40	85	8	2500	Cu	5	–	5	·
Aberdeen	87	·	·	·	·	·	·	·	·	·	·	·	·	·	989.8	+4	SWS	3	b	40	85	8	–	–	0	ACu	2	1
Malin Head	51	983.6	+4	S	6	bc/pc	41	85	7	4000	CuNb	4	–	4	986.6	+4	S	5	b/r	42	85	7	1500	St	2	–	2	7
Renfrew	58	·	·	·	·	·	·	·	·	·	·	·	·	·	991.2	+1	SW	4	bc/pc	44	85	7	1500	Nb	2	Ci	3	·
Edinburgh (Inchkeith)	100	986.0	+6	WSW	5	b	42	75	8	–	–	0	–	0	991.3	+5	WSW	4	bc	45	75	8	1500	St	7	–	7	1
Leuchars	30	·	·	·	·	·	·	·	·	·	·	·	·	·	990.9	+4	SW	4	b+	42	75	7	2500	StCu	2	–	2	·
Eskdalemuir	794	·	·	·	·	·	·	·	·	·	·	·	·	·	993.2	+1	SSW	5	or	42	92	6	1500	Nb	10	–	10	·
Tynemouth	67	990.4	+6	W	3	b	43	75	8	–	–	0	–	0	994.5	+3	WSW	3	bc+	42	85	7	1500	Cu	6	–	6	2
Blacksod Point	18	982.2	+2	S	7	c	48	65	6	·	CuNb	8	–	8	983.9	+1	S	6	bc	50	75	7	·	CuNb	7	–	7	7
Donaghadee	40	·	·	·	·	·	·	·	·	·	·	·	·	·	989.5	+2	WSW	3	b	43	85	8	4000	Cu	2	–	2	2
Birr Castle	173	·	·	·	·	·	·	·	·	·	·	·	·	·	990.5	+1	S	2	b	41	92	7	–	–	0	–	0	·
Holyhead	26	993.2	+4	SW	5	b	48	75	8	2500	Cu	1	–	1	995.6	+3	SW	5	b/r	48	75	8	4000	StCu	2	ACu	2	4
Liverpool (Bidston)	189	·	·	·	·	·	·	·	·	·	·	·	·	·	997.7	+3	S	4	bc+	42	85	7	2500	Nb	4	–	4	·
Chester (Sealand)	16	·	·	·	·	·	·	·	·	·	·	·	·	·	997.2	+3	SE	4	b–	42	85	8	2500	St	2	–	2	·
Harrogate	478	·	·	·	·	·	·	·	·	·	·	·	·	·	998.7	+4	S	3	b	41	92	7	–	–	0	ACu	1	·
Spurn Head	29	995.4	+3	WSW	3	bc	42	92	6	4000	StCu	3	–	3	999.7	+2	WSW	5	bc	42	85	7	–	–	0	ASt	3	4
Birmingham (Edgbaston)	525	·	·	·	·	·	·	·	·	·	·	·	·	·	1001.5	+2	S	3	b	41	85	8	–	–	0	ASt	1	·
Cranwell	266	997.6	+10	SWS	4	b	41	87	6	–	–	0	–	0	1002.0	+6	SE	3	b	36	97	7	5700	StCu	1	–	1	·
Gorleston	14	998.7	+4	SWW	3	b	45	85	7	–	–	0	–	0	1004.6	+4	SWS	2	b–	40	92	7	–	–	0	Ci Cu	1	0
Valentia (Cahirciveen)	39	987.5	+1	SW	4	c(TLR)	52	97	8	·	St	10	–	10	987.1	–3	SW	5	c/PR	49	85	8	2500	StCu	8	–	8	6
Roches Point	22	·	·	·	·	·	·	·	·	·	·	·	·	·	992.4	–1	SW	4	bc	51	85	8	1500	CuNb	3	–	3	4
Pembroke (St. Ann's H.)	150	994.8	+3	WSW	4	bc+	50	75	8	4000	Cu	6	–	6	996.5	+1	SSW	4	bc–	51	75	8	4000	Cu	2	ACu	3	·
Ross-on-Wye	223	·	·	·	·	·	·	·	·	·	·	·	·	·	1000.7	0	SW	2	b+	43	75	7	–	–	0	Ci	1	·
Leafield	612	·	·	·	·	·	·	·	·	·	·	·	·	·	1002.0	+1	SSE	3	bc+	35	92	8	–	–	0	CiSt	3	·
Winchester (Worthy Dn.)	272	·	·	·	·	·	·	·	·	·	·	·	·	·	1003.0	+1	SSE	1	bc	33	97	7	–	–	0	Ci	3	·
S. Farnborough	237	·	·	·	·	·	·	·	·	·	·	·	·	·	1003.0	+2	SE	3	bc	39	85	6	–	–	0	Ci	3	·
London (Kew Obsy.)	18	·	·	·	·	·	44	·	·	·	·	·	·	·	1003.8	+2	–	0	bc+	38	92	5	2500	StCu	2	Ci	3	·
Croydon	244	1000.8	+6	WSW	4	b	45	75	7	–	–	0	–	0	1004.7	+3	S	3	bc+	38	92	7	4000	StCu	12	Ci	4	·
Shoeburyness	11	·	·	·	·	·	·	·	·	·	·	·	·	·	1004.2	+3	S	1	b	35	97	7	–	–	0	ASt	2	·
Clacton-on-Sea	54	·	·	·	·	·	·	·	·	·	·	·	·	·	1004.4	+3	WNW	2	bc	41	85	7	4000	StCu	4	–	4	1
Felixstowe	15	·	·	·	·	·	·	·	·	·	·	·	·	·	1004.7	+4	WS	1	bc	43	85	7	–	–	0	Ci	4	0
Lympne	320	1001.1	+7	SW	2	b–	44	85	8	–	–	0	–	0	1004.9	+3	SWS	1	bc+	41	85	8	–	–	0	ASt	6	·
Scilly (St. Mary's)	168	998.7	+3	SW	5	b	50	75	8	4000	Cu	1	–	1	998.1	–1	SW	5	bc	50	75	7	4000	StCu	5	–	5	5
Falmouth (Pendennis)	200	1000.7	+3	SW	4	bc	49	65	8	4000	StCu	5	–	5	999.2	–2	SWS	5	bc	50	85	8	4000	StCu	4	Ci	6	2
Plymouth (Mt. Batten)	82	·	·	·	·	·	·	·	·	·	·	·	·	·	1000.0	–1	SSW	4	c+	51	65	7	2500	Nb	9	–	9	2
Portland Bill	32	1000.4	+4	WSW	4	b–	51	65	8	–	–	0	–	0	1001.0	+1	SSW	4	bc+	52	65	8	1500	StCu	6	ASt	7	5
Southampton (Calshot)	10	1001.4	+5	WSS	3	b	46	75	8	–	–	0	–	0	1003.3	+2	SE	3	bc	48	85	7	2500	StCu	1	Ci	3	0
Dungeness	30	1002.2	+7	W	3	b	51	92	8	–	–	0	–	0	1005.2	+3	–	0	bc+	42	92	8	2500	StCu	2	ASt	5	3
Guernsey (St. Peter Port)	173	1004.0	+6	–	0	b	45	85	8	–	–	0	–	0	1003.8	0	–	0	c	50	92	6	2500	StCu	10	–	10	1

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 2nd DECEMBER

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 21h. to 9h.	Temperature. Max. 9h.–17h.	Rainfall.† Night 17h.–9h.	Rainfall.† Day 9h.–17h.	Sunshine. Sunrise to Sunset.
	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cR	cbc	40	54	–	1	0.0
Douglas (I. o. M.)	ogr	c	43	53	8	4	1.6
Llandudno	ror	rbcb	43	60	1	4	1.3
Colwyn Bay	roroc	cb	44	57	5	5	1.4
Rhyl	orr	bc	41	57	1	2	0.9
Wallasey	cdor	oRb	43	53	0.5	2	0.7
Southport	ororr	rrcbcb	*41	52	2	10	0.4
Blackpool	orr	oc	42	52	3	11	0.2
Morecambe	rr	cbc	41	52	3	10	0.2
Ilkley	rorc	c	41	54	2	8	0.0
Cleethorpes	drog	uro	38	52	Trace	5	0.0
Mablethorpe	orgrr	orr	37	52	Trace	8	0.0
Skegness	bcpr	opr	39	51	0.6	5	0.0
Aberystwyth	corgy	cbccg	46	54	3	8	0.0
Bath	rr	rirc	43	57	1	6	0.0
Cheltenham	or	cbc	42	56	1	9	0.1
Leamington Spa	or	cor	38	55	Trace	4	0.0
Lowestoft	bcpr	opr	40	51	0.1	3	0.0
Harwich & Dovercourt	doc	roc	40	50	Trace	5	0.0
Maldon	orr	r	39	53	–	4	0.0
Ilfracombe	rr	oc	47	57	8	7	0.1
Bude	rroc	bcpr	46	53	6	5	1.4
St. Ives	r	c	49	57	22	12	1.7
Penzance	orc	crbc	50	57	18	3	1.8
Paignton	orrgm	ORgob	42	57	10	9	0.0
Torquay	orgm	orrcmb	46	57	5	7	0.1
Jersey	rcrc	cr	49	55	1	7	0.0
Weymouth	rr	rrcb	48	56	1	7	0.0
Bournemouth	r	r	44	55	0.5	10	0.0
Ventnor	ouor	orcu	45	54	0.3	4	0.0
Portsmouth (S'thsea)	orr	orr	43	55	0.3	11	0.0
Bognor Regis	rr	orrc	43	53	Trace	12	0.0
Littlehampton	cgcr	crbc	38	53	–	8	0.0
Worthing	or	orrc	40	54	–	10	0.0
Brighton	cor	ro	42	54	–	9	0.0
Eastbourne	orr	rr	44	53	Trace	8	0.0
Hastings‖	ogo	oror	42	53	0.3	5	0.0
Folkestone	orr	orrm	41	52	–	5	0.0
Dover	or	orr	45	52	–	6	0.0
Deal	or	r	41	52	–	7	0.0
Tunbridge Wells	or	or	40	53	Trace	10	0.0
Ramsgate	co	or	48	52	–	3	0.0
Margate	c	cr	42	53	–	2	0.0
Southend	or	or	42	52	Trace	1	0.0

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* Information not usually received. † The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.–17h., the minimum for the period 21h.–9h. ♣ 17h.–9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24849 Wednesday, 4th December, 1929.

Observations at 18h. G.M.T. 3rd.

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	990.7	+5	S	3	bc	47	75	8	1500	Stcu	4	Ast	6	•
Stornoway	984.4	+3	S	7	bc	50	65	8	4000	Cu	4	Cist	6	•
Wick	990.6	+3	SSW	4	bc	46	75	8	2500	Stcu	2	Ci	4	•
Tiree	986.3	0	S	7	c	48	85	6	2500	Stcu	9	Ast	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	994.8	+4	S	3	c	47	85	7	2500	Cu	8	-	8	2
Malin Head	985.7	-4	SSE	6	c	48	75	7	1500	Stcu	3	Acu	10	•
Renfrew	994.4	0	S	4	Cr	49	85	7	2500	Stcu	5	Cist	9	2
Edinburgh (Inchkeith)	995.0	+4	SSW	2	bc	50	75	8	1500	St	4	Acu	6	•
Leuchars	994.7	+3	SW	3	bc+	48	65	8	2500	Stcu	1	Cist	3	2
Eskdalemuir	995.9	0	S'W	6	bc-	45	85	7	1500	Stcu	4	-	4	2
Tynemouth	997.4	+3	SSW	2	bc	46	85	6	800	St	4	-	4	•
Blacksod Point	981.0	-2	S	7	c	53	65	7	•	CuNb	10	-	10	•
Donaghadee	991.8	0	SW	4	bc+	50	75	8	4000	Stcu	7	-	7	•
Birr Castle	988.6	-3	S	4	C+	50	75	7	2500	Nb	7	Ast	10	•
Holyhead	996.4	+1	S	5	b	51	75	7	1500	Cu	1	-	1	1
Liverpool (Bidston)	998.3	-1	S'E	5	b	46	75	7	2500	Stcu	1	-	1	•
Chester (Sealand)	998.0	-1	S'E	4	b	48	75	6	2500	Cu	2	-	2	2
Harrogate	999.8	0	SE'S	3	b	46	85	5	2500	St	2	-	2	•
Spurn Head	1001.9	0	S'W	4	bc	45	85	7	5700	Stcu	2	Ci	5	•
Birmingham (Edgbaston)	1001.9	-1	SSE	4	bc+	47	75	7	-	-	0	Acu	3	2
Cranwell	1003.0	-1	SSE	4	b	44	85	6	-	-	0	Cicu	2	2
Gorleston	1005.4	+1	S'E	2	c	46	92	6	5700	Cu	5	Ci	8	•
Valentia (Cahirciveen)	983.0	-6	S'E	7	c	52	85	8	1500	Nb	8	Ast	10	2
Roches Point	990.3	-3	SW	6	c	52	92	8	1500	CuNb	9	-	9	•
Pembroke (St. Ann's H.)	995.2	-3	SSW	4	bc+	53	97	7	4000	Stcu	4	Cicu	7	•
Ross-on-Wye	1000.0	-1	SE'S	3	bc+	51	65	6	5700	Stcu	3	Acu	4	2
Leafield	1001.3	-1	SE'S	3	b/pc	45	92	6	5700	Stcu	2	Cicu	2	2
Winchester (Worthy Dn)	1002.7	-1	SSE	3	c	47	85	8	2500	Stcu	7	Acu	8	2
S. Farnborough	1002.7	-2	SE	2	Cr	48	92	5	800	CuNb	5	Acu	9	2
London (Kew Obsy.)	1003.4	-1	SSE	2	C	49	85	5	4000	St	7	Acu	9	2
Croydon	1003.7	-2	SSE	3	C	49	85	6	1500	St	5	Acu	9	2
Shoeburyness	1004.4	-2	SSE	2	C+	49	97	7	4000	Stcu	5	Ast	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1005.2	-1	SE	3	C	49	85	7	5700	Stcu	6	Acu	9	2
Folkestone	1003.9	-3	E	2	C	49	97	5	2500	Stcu	9	-	9	2
Scilly (St. Mary's)	995.6	-2	S'W	5	bc	53	85	6	4000	Cu	3	Cicu	6	•
Falmouth (Pendennis)	998.0	-2	S	6	bc+	53	85	7	4000	CuNb	6	-	6	•
Plymouth (Mt. Batten)	999.1	-3	S	5	bc-	53	76	8	4000	Stcu	4	Acu	5	2
Portland Bill	1000.6	-2	SSE	4	bc	54	85	8	2500	Stcu	5	Acu	6	•
Southampton (Calshot)	1003.3	-1	S'W	3	c/r	49	85	7	1500	Nb	5	Acu	8	2
Dungeness	1004.5	-2	SE	2	C	51	97	7	-	-	0	Ast	9	•
Guernsey (St. Peter Port)	1002.6	-2	SSE	2	b	53	85	6	-	-	0	Cicu	2	•

Observations at 18h. G.M.T. 3rd.

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	993.7	+4	S	3	bc	48	85	8	1500	Stcu	4	Ast	6	•
Stornoway	982.7	-1	S	7	bc	50	85	7	4000	St	6	-	6	6
Wick	991.0	0	SSW	6	bc	47	85	8	2500	Stcu	3	Cist	7	6
Tiree	983.7	-3	S	8	c	50	85	6	2500	Stcu	9	Ast	10	7
Nairn	989.4	•	SW	2	bc	48	85	8	1500	St	5	-	5	•
Aberdeen	996.0	+1	SSE	4	b	47	85	6	-	-	0	Ast	2	1
Malin Head	982.4	-3	SSE	6	bc	48	85	7	4000	Stcu	4	-	4	7
Renfrew	994.3	-1	ENE	4	c	46	75	7	4000	Stcu	5	Ast	8	•
Edinburgh (Inchkeith)	995.6	0	SE	1	bc	45	75	8	1600	St	3	-	3	0
Leuchars	996.3	+2	S'E	3	b	43	85	7	2500	St	2	-	2	•
Eskdalemuir	995.8	-1	SSW	4	bc+	42	85	7	2500	Stcu	4	-	4	•
Tynemouth	998.5	+2	S	2	bc/m	45	85	6	800	St	4	-	4	1
Blacksod Point	979.6	-1	S	7	ORR	48	75	7	•	Nb	10	-	10	7
Donaghadee	989.7	-2	SW	4	c	51	85	7	4000	Stcu	8	-	8	3
Birr Castle	984.5	-3	S	5	Or	51	85	7	2500	St	10	-	10	•
Holyhead	994.3	-3	S'E	6	b-	51	85	7	800	St	1	-	1	5
Liverpool (Bidston)	996.7	-1	SE	4	bc	44	85	7	2500	Stcu	5	-	5	•
Chester (Sealand)	997.6	-1	SSE	3	bc+	46	86	6	4000	St	5	-	5	•
Harrogate	1001.1	0	SE'S	1	b	40	92	5	2500	St	2	-	2	•
Spurn Head	1002.1	0	S	4	bc-	46	92	7	5700	Stcu	3	-	3	3
Birmingham (Edgbaston)	1001.1	0	SSE	3	b+	44	92	7	2500	Stcu	2	-	2	•
Cranwell	1002.9	+2	SE	3	b-	39	97	6	4000	Stcu	2	-	2	•
Gorleston	1006.4	0	SSE	4	b	48	92	7	-	-	0	-	0	0
Valentia (Cahirciveen)	983.6	+5	SW	5	c/r(r)	47	85	7	1500	Nb	7	Ast	10	7
Roches Point	986.1	-3	SW	7	c	52	92	7	1500	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	993.9	-1	S	5	C+	53	97	7	1500	CuNb	6	Ast	8	4
Ross-on-Wye	999.7	-1	SSE	3	b-	48	85	6	4000	Stcu	1	-	1	•
Leafield	1001.4	0	SE'S	4	bc+	42	97	6	-	-	0	Cist	6	•
Winchester (Worthy Dn)	1001.9	-1	SE'E	3	b	46	92	7	2500	Stcu	2	-	2	•
S. Farnborough	1002.9	-1	SE	2	b/m	45	97	6	-	-	0	-	0	•
London (Kew Obsy.)	1004.2	+1	SE	3	b/r	45	92	5	-	-	0	-	0	•
Croydon	1003.9	0	SSE	3	b-	46	92	6	-	-	0	-	0	•
Shoeburyness	1005.6	0	S	1	bc	41	97	7	4000	Stcu	6	-	6	•
Clacton-on-Sea	1004.9	0	SSE	4	c	49	92	6	4000	Stcu	8	-	8	3
Felixstowe	1005.4	+1	SSE	4	bc	48	92	7	2500	Stcu	7	-	7	0
Lympne	1004.9	+2	SE	2	o	48	97	5	1500	St	10	-	10	•
Folkestone	1003.0	-3	S	6	c	51	92	7	4000	Stcu	9	-	9	5
Scilly (St. Mary's)	996.7	-1	S'W	6	C+	52	92	7	4000	CuNb	8	-	8	2
Falmouth (Pendennis)	998.2	-1	S	6	C+	53	85	8	2500	Nb	9	-	9	4
Plymouth (Mt. Batten)	1000.2	-1	SSE	4	bc-	52	85	8	2500	Stcu	5	-	5	4
Portland Bill	1002.3	-1	SE	4	b-	50	85	7	1500	Stcu	1	-	1	0
Southampton (Calshot)	1004.8	+1	S	2	bc-	50	97	7	2500	Cu	4	-	4	3
Dungeness	1003.0	+2	S	3	c	51	92	6	2500	Stcu	8	-	8	4
Guernsey (St. Peter Port)														

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Fahrenheit
Kew	18	cmxc	cprbn	bcr	51	44	33	3	2	0.4	*	*	6
Croydon	264	bcc2	cbcb	cmR	50	47	41	-	5	0.2	*	*	6
Greenwich (Royal Obsy.)	148	c	cb	bwcr	51	43	31	-	4	0.5	87	90	*
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	54	44	40	5		0.1	79	88	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	116	cfc	corc	*	50	47	*	4	3	*	*	93	*
Kensington Palace	80	bcor	orbc	*	50	45	35	4	3	*	(At 18h) 92	93	*
Hampstead Observatory	450	*	*	*	49	43	38	3	3	0.0	*	95	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.6	10h 3rd	<0.3	4h-6h 4th

Kew Observatory

Max.	Time.	Min.	Time.
0.4	7-18h 3rd	<0.1	4h-7h 4th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 3rd 17h 00m. to 4th 06h 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	3.15	24
δ Ursae Minoris	13.45	2.57	21

CODE FOR STATE OF GROUND.

0=Dry ground. 1=Wet ground. 2=Soft (muddy) wet ground. 3=Bare ground frozen (but less than 2 ins. deep). 4=Bare ground frozen (but more than 2 ins. deep). 5=Dew (or wet grass but not wet ground). 6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports). 7=Snow (thin layer, often not continuous). 8=Snow (deep, impeding traffic, usually a continuous layer). 9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.48	11.43	15.39
Greenwich	7.49	11.44	15.38
Wick	7.49	11.50	15.51
Valentia	7.50	11.51	15.51
	8.43	12.3	15.22
	8.45	12.3	15.21
	8.32	12.31	16.30
	8.33	12.32	16.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy

d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. r_o = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; — = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	13½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

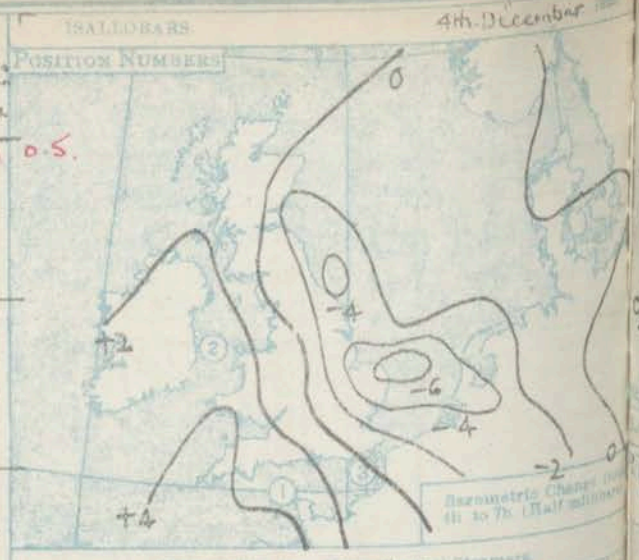
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARISE FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 3rd	18h.-18h. 3rd	18h. 3rd to 18h. 4th	18h.-7h. 4th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN 3rd. Hours.
Lerwick	bc	bc	bbcq	bcc	48	44	•	-	-	-	-	~~5.0~~ 0.5.
Stornoway	c	c	r-d	cPRqc	50	45	•	-	-	5	24.00	0.3
Wick	b-bc	b-bc	b-bc	bcoir	48	46	•	-	-	0.1	6.30	
Tiree	r,c	c	CR	C	50	44	41	1	18.00	5	22.00	0.0
Nairn	bc	bc	bcq	bcq	48	45	•	-	-	-	-	4.7
Aberdeen	bcc	cbcb	bzbcq	bcerq	48	46	43	-	-	Tr	6.30	1.7
Malin Head	bccu	cbc	bcqcirc	cbcb	49	41	•	-	-	4	22.00	0.0
Renfrew	prcb	rbbcc	ccq	rr	49	44	42	0.1	18.00	6	3.30	2.4
Edinburgh (Inchkeith)	bcpr	b-bc	bcco	oir	50	44	38	Tr	18.00	0.2	4.30	3.7
Leuchars	bccpbbc	bccbcb	bbcc	ccr	48	42	37	0.3	18.00	0.5	6.30	3.8
Eskdalemuir	crrcbc	bcbbc	bc	bcorrm	46	40	37	4	18.00	9	3.30	1.9
Tynemouth	bc	bcmm	bc	bcoir	47	44	39	-	-	Tr	6.30	•
Blacksod Point ...	phqc	plqrq	phqc	pqc	54	45	•	10	•	2	•	•
Donaghadee	bbc	bcc	cqorr	orrbc	51	43	•	-	-	14	22.00	•
Birr Castle	bbc,c	Oir.o	oRc	coRcbx	51	38	28	Tr	18.00	14	21.00	1.4
Holyhead	prbcb	bbc	bbcc	Rbc	51	46	45	Tr.	18.00	6	24.00	4.8
Liverpool (Bidston) ...	b	bbc	bccbc	bckqr	46	44	42	-	-	5	8.30	5.5
Chester (Sealand) ...	bm	bbcm	bcm	bccRr	48	45	42	-	-	3	5.30	4.7
Harrogate	b	b	bo	ogir	46	40	37	-	-	1	4.30	2.1
Spurn Head	bc	bc	bwco	orr	46	44	•	-	-	1	3.30	5.1
Birmingham (Edgbaston)	b	bc	bbcc	coir	47	43	39	-	-	4	3.30	4.7
Cranwell	bob	b,cb	bmcm	cmcr	45	38	35	-	-	0.6	5.30	4.9
Gorleston	bbcc	cbcb	bbc	bccobrq	48	48	46	-	-	1	4.30	~~0.0~~ 1.0
Valentia (Cahirciveen)	cpc	CRtlrqp	chrcrbc	bbcPR	52	43	39	10	9.00	6	21.00	0.0
Roches Point	c	c	coRro	obc	52	45	•	-	-	9	22.00	•
Pembroke (St. Ann's H.)	bcqp	bcpcq	orrq	oiRbc	53	48	•	Tr.	11.00	7	21.00	2.5
Ross-on-Wye	bcbbc	bc	bbcb	orcurc	51	47	42	-	-	5	2.30	4.1
Leafield	bccp	bbcb	mbcc	cfRr	46	41	39	0.1	11.00	6	2.30	2.5
Winchester (Worthy Dn.)	bccprc	cbcb	bbccr	crrrcm	50	44	41	0.2	11.00	3	24.00	2.2
S. Farnborough ...	bccm	cqrhbm	b, c	oorr	48	48	35	1	12.30	2	1.30	0.9
London (Kew Obsy.) ...	cmxcm	cprbm	bmcmr	cmrr	51	44	23	3	14.30	2	21.00	0.4
Croydon	bccmz	czbcbm	cm	cmRr	50	47	41	-	-	5	1.30	0.2
Shoeburyness	bcc	bc	c	crr	50	40	34	-	-	5	2.30	0.5
Clacton-on-Sea ...	bcc	c	c	corc	50	47	44	-	-	6	1.30	0.2
Felixstowe	cr	cbcb	bcb	bccorrm	50	48	44	Tr.	12.30	5	4.30	0.6
Lympne	bccm	cmbco	omco	oRRrr	50	46	41	-	-	13	2.30	0.7
Scilly (St. Mary's) ...	bcp	bcp	prorc	cbc	54	47	•	0.5	9.00	10	21.00	5.8
Falmouth (Pendennis)	bcpq	bccq	corq	orbcq	54	49	•	Tr.	18.00	1	21.00	3.4
Plymouth (Mt. Batten)	crprbc	cbq	cbqcrr	cprbq	54	50	48	0.5	18.00	2	22.00	1.9
Portland Bill	bc	bc	cp	oprrc	54	51	•	-	-	5	21.00	•
Southampton (Calshot)	bccrm	cbcbmbc	crr	orrrr	52	49	47	4	11.00	2	24.00	2.0
Dungeness	bcc	cbc	bcc	coRRc	52	49	•	-	-	10	1.30	•
Guernsey	bcb	bbcc	corro	pprc	54	52	51	-	-	2	22.00	3.6

† For code see page 1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	3rd 10h.	HIBERNIA	SW	7	c-	52	53
"	" 13h.	SHENEVER	SSW	4	bc	54	54
3	4th 2h.	DIEPPE	S	3	rr	55	53

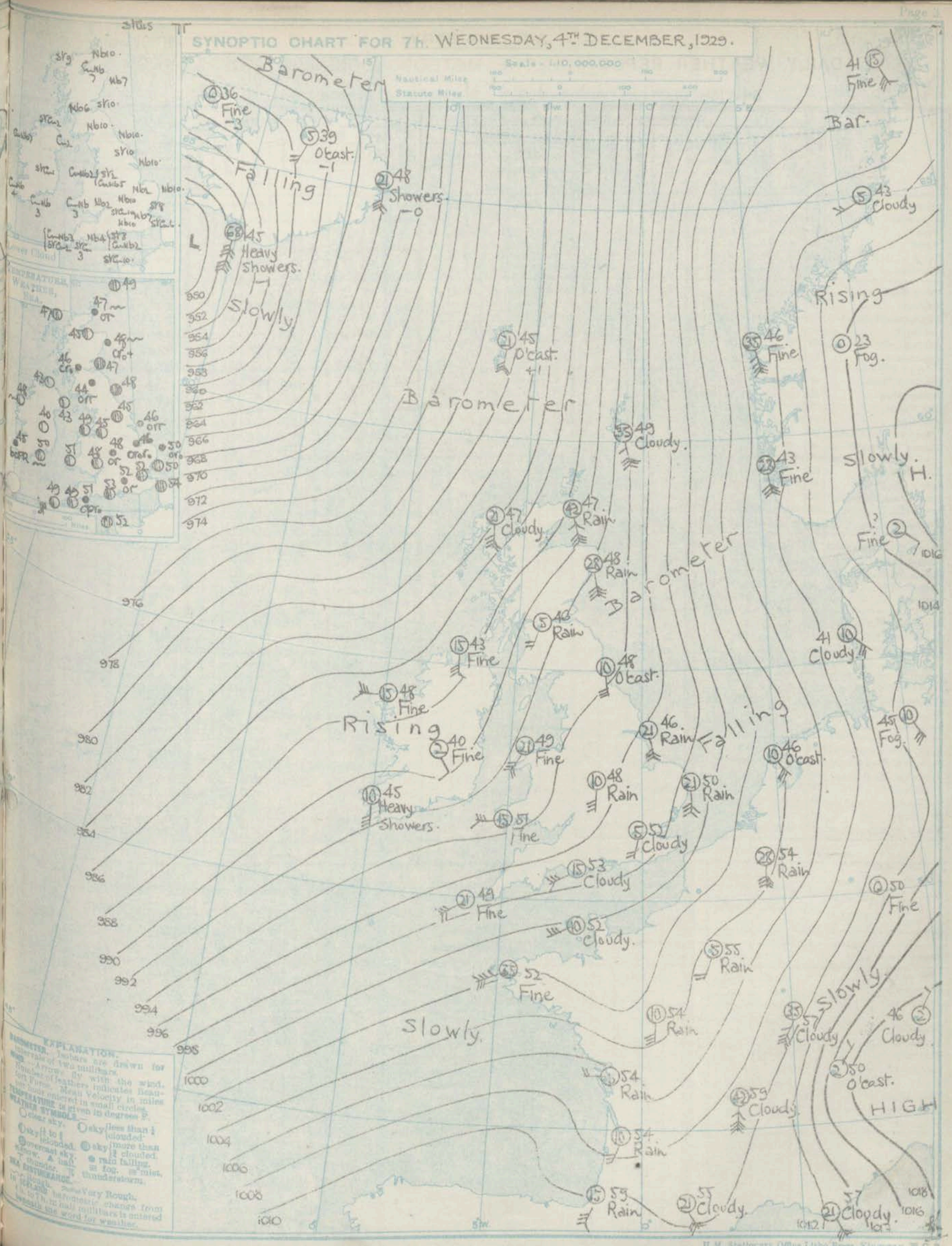
GENERAL INFERENCE.

Pressure remains low over Iceland. A trough of low pressure now crossing Great Britain will be followed by an interval of mainly fair weather, but a new and intense secondary on the Atlantic will advance quickly and cause an early renewal of gales and rain.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 4th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind between southwest and west, moderate, backing and freshening later; mainly fine; deteriorating tomorrow; mild.	Stormy and unsettled.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind southwest, moderate or fresh, becoming strong to gale later; fair at first apart from local showers; rain later; mild.	South Cone still flying.
10. N.E. England 11. S.E. Scotland	Wind southwest or west, moderate, backing south later, becoming strong to gale; fine today, some rain tomorrow; mild.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwest, moderate or fresh, backing somewhat and increasing to gale later; bright periods and local showers at first; rain later; mild.	cloud

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0945 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

* Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday, 4th December 1929. No. 338.

Stations	Height above M.S.L. in feet	1h. G.M.T. 4th: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-6	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	7h. G.M.T. 4th: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-6	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun 0-6
Lerwick	34	993.7	+1	SSE	5	bc	48	75	8	1500	StCu	3	A.St	5	992.3	0	SSE	7	c	49	85	8	1500	StCu	5	A.St	8	•
Stornoway	80	992.9	0	S	7	drR	•	•	5	•	•	•	•	10	994.0	+1	S	5	c	47	85	7	2500	St	9	-	9	4
Wick	81	992.5	-3	SSE	8	bc	47	85	7	1500	Sc.	4	Cu.St	6	988.0	0	SSE	8	or	47	83	7	1500	Nb	10	-	10	7
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	986.1	+1	SW'S	5	bc	45	92	7	2500	Stcu	4	-	4	5
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	987.5	•	W	2	bc+	45	85	8	2500	CuNb	7	-	7	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	990.6	-1	SSE	6	cr₀+	48	85	7	1500	Nb	7	A.St	10	6
Malin Head	81	986.1	+3	S	1	c	44	85	8	5700	St.Cu.	5	Cu.Sc.	9	987.6	+2	S	4	b	43	85	8	5700	StCu	9	-	9	5
Renfrew	80	•	•	•	•	•	•	•	•	•	•	•	•	•	990.7	+1	SW	2	cr₀	46	92	7	1500	Nb	6	A.St	10	•
Edinburgh (Inchkeith)	100	993.6	-2	SE	4	0	47	75	7	1500	St.	10	-	10	990.4	-2	SE	2	o	47	85	8	800	St	10	-	10	0
Leuchars	29	•	•	•	•	•	•	•	•	•	•	•	•	•	990.3	-2	SE	4	or	46	92	7	800	Nb	10	-	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	-1	SW	6	orr	44	97	5	1500	Nb	10	-	10	•
Tynemouth	67	999.1	-1	S	3	bc-	45	92	7	800	St.	4	-	4	993.3	-4	SSE	3	oip	48	92	6	1500	Nb	10	-	10	2
Blacksod Point	18	[illegible]	+2	S	4	bc	48	75	7	•	CuNb	7	-	7	986.4	+2	W	4	bc	48	75	7	•	CuNb	7	-	7	6
Donaghadee	40	984.4	•	•	•	•	•	•	•	•	•	•	•	•	989.4	+2	SSW	2	b+	43	85	7	4000	Cu	2	-	2	1
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	989.7	+3	SSE	1	b	39	92	8	4000	StCu	1	-	1	2
Holyhead	26	991.3	-2	SSE	7	or	51	85	6	2500	Nb.	10	-	10	993.0	+2	SWW	5	bc	42	85	6	2500	CuNb	2	Ci	6	•
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	994.0	+1	SSW	2	bc/r	45	97	7	2500	CuNb	7	-	7	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	993.6	+1	W'N	1	c/r	47	85	6	1500	St	9	-	9	
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	994.3	-3	S	2	o	45	97	5	2500	St	10	-	10	•
Spurn Head	20	1000.1	-1	S'E	6	or	46	97	7	4000	Nb.	10	-	10	996.0	-2	SSE	5	orr	46	97	6	4000	Nb	10	-	10	4
Birmingham (Edgbaston)	575	•	•	•	•	•	•	•	•	•	•	•	•	•	995.6	-1	S	3	or	48	85	7	2500	Nb	10	-	10	•
Cranwell	286	1000.9	-3	SSE	5	c	44	97	6	-	-	0	A.St.	10	996.0	-4	SSE	4	cr₀r₀	46	97	5	2500	Nb	2	A.St	10	4
Gorleston	14	1000.0	0	SE'S	5	bc	48	92	6	4000	Cu	5	-	5	998.4	-6	S'E	5	or₀	50	97	6	1500	Nb	10	-	10	-
Valentia (Cahirciveen)‡	30	986.4	+3	SW	3	b	46	85	8	•	St.	2	-	2	990.6	+3	S	3	bc/pR	45	85	8	2500	CuNb	4	-	4	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	992.7	+3	SW	3	bc	50	85	8	2500	CuNb	3	-	3	4
Pembroke (St. Ann's H.)	150	991.4	-1	SSW	3	oR	48	97	6	1500	Nb.	10	-	10	993.9	+4	W	4	bc-	51	75	8	1500	CuNb	3	CuSt	6	•
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	995.7	+1	WSW	3	c	48	85	7	2500	Nb	2	A.St	10	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•	995.3	-1	S'E	3	c/r	50	97	8	800	StCu	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	997.7	0	SSW	3	cr₀	52	97	6	800	Nb	8	A.St	10	•
S. Farnborough	267	•	•	•	•	•	•	•	•	•	•	•	•	•	997.0	-1	SSW	3	or	52	97	6	450	Nb	10	-	10	•
London (Kew Obsy.)	18	•	•	•	•	•	48	•	•	•	•	•	•	•	997.4	-1	S'W	2	c	52	97	6	1500	Nb	7	A.St	8	•
Croydon	344	1001.2	-5	SE'S	4	c	48	92	7	1500	St.	7	A.St.	10	999.9	-1	SSW	4	cr₀	53	97	6	1500	Nb	8	A.St	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	998.5	0	S	3	cr₀	52	97	7	1500	St	6	A.St	9	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	998.5	-4	SSE	4	c	50	97	7	2500	St	8	-	8	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	998.2	-5	S'W	5	o	51	97	6	800	St	10	-	10	3
Lympne	350	1003.7	-1	SE'S	3	or	47	97	7	1500	St.	10	-	10	999.3	+1	SSW	4	or₀r₀	52	97	6	800	Nb	10	-	10	•
Scilly (St. Mary's)	103	992.5	+1	W'S	3	c	49	92	8	4000	St.Cu	9	-	9	997.1	+4	SWW	5	bcjp	49	85	7	4000	CuNb	5	-	5	5
Falmouth (Pendennis)	200	992.8	-4	SSW	7	cr₀	54	85	7	4000	St.Cu.	10	-	10	997.7	+4	WSW	5	bc+	49	85	7	4000	StCu	3	Ci	6	4
Plymouth (Mt. Batten)	22	•	•	•	•	•	•	•	•	•	•	•	•	•	997.5	+3	W	5	c/pr₀	51	75	7	1500	Nb	4	A.St	9	5
Portland Bill	52	995.4	-5	SE'S	5	o/pr₀	53	92	8	1500	St.	10	-	10	996.8	+3	WSW	4	c	53	75	8	1500	St	10	-	10	3
Southampton (Calshot)	10	999.3	-6	SSE	5	oor₀	51	92	6	800	Nb.	10	-	10	998.0	0	SW	4	cr₀	53	92	7	800	Nb	9	-	9	5
Dungeness	20	1002.8	-3	SSE	3	c+	51	97	7	2500	St.Cu	4	A.St.	8	999.0	-3	SSW	5	c/r	54	92	8	2500	StCu	6	CuCu	8	5
Guernsey (St. Peter Port)	179	998.8	-6	S	4	c/r	53	97	6	2500	St.Cu.	10	-	10	1000.8	+5	WSW	3	c	52	92	7	2500	StCu	10	-	10	5

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 3rd December

Stations	Weather: Forenoon	Weather: Afternoon	Temperature: Min. 9h. 2nd to 9h. 3rd	Temperature: Max. 9h. 2nd - 17h. 3rd	Rainfall†: Night 17h. 2nd - 9h. 3rd	Rainfall†: Day 9h. 3rd - 17h. 3rd	Sunshine: Sunrise to Sunset. 3rd
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	bcb	39	48	1	-	4.5
Douglas (I. o. M.)	bcc	bcc	42	53	4	-	3.8
Llandudno	b	bc	43	53	2	-	5.3
Colwyn Bay	b	b	44	52	3	-	6.1
Rhyl	bcb	bbc	43	50	1	-	6.1
Wallasey	b	b	42	50	1	-	4.0
Southport	bcb	bbc	*41	48	1	-	6.7
Blackpool	orcbc	bc	41	48	1	-	4.6
Morecambe	b	bbc	41	48	2	-	4.5
Ilkley	bc	bc	38	49	1	-	3.8
Cleethorpes	b	bc	38	47	-	-	4.6
Mablethorpe	bcbbc	bbc	38	46	0.3	-	4.7
Skegness	b	bcb	40	46	1	-	5.1
Aberystwyth	croc	bc	45	52	0.5	-	5.8
Bath	cbcb	bbcp₀	34	52	0.3	Trace	2.6
Cheltenham	bcb	bccb	35	49	1	-	3.3
Leamington Spa	bc	cod	38	49	Trace	0.1	2.7
Lowestoft	bcmc	bcb	38	48	0.5	-	1.2
Harwich & Dovercourt	bc	bc	40	50	-	-	1.0
Maldon	mbcc	cbcc	34	49	1	-	0.5
Ilfracombe	cbcb	bbc	44	53	0.4	-	4.0
Bude	bc	cbc	41	54	1	-	6.4
St. Ives	cp	cp	44	53	1	0.5	0.2
Penzance	cbc	cbc	46	55	0.3	-	2.1
Paignton	bobc	bcbc	49	55	Trace	Trace	2.6
Torquay	mbc	bcpbcp	42	55	-	Trace	3.1
Jersey	bcc	bcc	47	53	0.1	-	1.7
Weymouth	cb	bcb	47	55	Trace	-	4.4
Bournemouth	cbc	bcbc	40	54	-	-	3.0
Ventnor	cu	bcu	45	55	-	-	3.2
Portsmouth (S'thsea)	co	bcb	40	53	-	-	2.0
Bognor Regis	cbcb	bcbc	40	53	0.3	-	1.5
Littlehampton	bc	bc	36	53	-	-	2.0
Worthing	c	bc	37	54	-	-	1.3
Brighton	bcc	cbc	38	54	-	-	1.0
Eastbourne	c	cbcc	39	53	1	-	1.5
Hastings‖	cbcc	co	41	52	2	-	1.0
Folkestone	ombc	co	37	51	2	-	0.5
Dover	bcobc	c	38	51	1	Trace	0.0
Deal	o	oc	37	50	4	-	0.1
Tunbridge Wells	bc	bcc	38	51	1	-	1.4
Ramsgate	c	c	47	51	1	-	0.0
Margate	c	cbcc	41	51	1	-	0.2
Southend	c	cbce	40	49	0.5	Trace	0.5

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T. from an auxiliary station.

† For code see page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. * 17h.-9h.

* See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24850 Thursday 5th December 1929.

Observations at 15h. G.M.T. 4th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	990.0	-3	S'E	8	Orf.	48	85	7	1500	Nb	10	-	10	•
Stornoway	985.1	-1	S	4	c/o	47	85	7	1500	Nb	9	-	9	•
Wick	982.1	0	SSW	3	bc	46	92	8	1500	CuNb	4	Acu	7	•
Tiree	987.1	+1	S'W	6	c	47	85	8	2500	Stcu	8	Cicu	9	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	991.2	0	SW	3	c-	46	85	6	1500	Nb	8	Astr	9	2
Malin Head	989.3	+1	S	4	bc+	45	85	7	2500	Stcu	2	Cicu	5	•
Renfrew	992.1	+1	SSW	3	bc	48	75	6	2500	Cu	5	Ci	5	2
Edinburgh (Inchkeith)	992.2	+2	WSW	3	bc	48	75	7	4000	Cu	2	Cicu	4	•
Leuchars	992.0	+1	SSW	3	bc	46	85	7	1500	CuNb	1	Ci	3	2
Eskdalemuir	993.3	+2	SW'S	4	bc	44	85	8	1500	Stcu	7	-	7	2
Tynemouth	994.3	+1	WSW	2	0jp	48	75	4	1500	Nb	10	-	10	•
Blacksod Point	988.0	0	S	4	bc-	50	75	8	•	CuNb	6	-	6	•
Donaghadee	992.2	+1	SW	1	b	49	75	8	4000	Cu	1	Ci St	2	•
Birr Castle	992.0	0	SSW	2	b	49	75	7	2500	Cu	1	Ci	2	•
Holyhead	995.7	+1	SSW	4	bc jp	51	75	8	2500	CuNb	6	-	6	1
Liverpool (Bidston)	996.7	+2	SW	3	bc jp	49	75	8	1500	CuNb	2	Acu	6	•
Chester (Sealand)	996.8	+1	S	2	bc-	51	75	6	2500	Cu	4	Acu	6	2
Harrogate	997.1	+2	SSW	3	c	46	85	5	2500	St	2	Astr	9	•
Spurn Head	997.4	+1	W'S	4	c	48	85	6	5700	Stcu	9	Ci St	10	•
Birmingham (Edgbaston)	999.7	+2	SSW	3	b+	49	85	6	2500	Cu	2	-	2	2
Cranwell	999.2	+4	SW'S	3	c	49	85	6	2500	St	6	Astr	10	1
Gorleston	999.6	+2	SW'W	4	c	53	97	6	2500	Nb	5	Astr	10	•
Valentia (Cahirciveen)	990.7	-3	S	4	bc	50	75	8	2500	Nb	4	Astr	7	**
Roches Point	995.1	+1	SW	3	bc	51	85	8	2500	CuNb	3	-	3	•
Pembroke (St. Ann's H.)	996.2	0	SW	5	bc	51	85	8	1500	Cu	4	Ci Cu	6	•
Ross-on-Wye	990.2	+1	SSW	3	bc	51	75	7	4000	Stcu	3	Ci St	5	2
Leafield	1000.1	+2	SW'S	4	b-	49	85	8	4000	Cu	1	Ci St	2	2
Winchester (Worthy Dn.)	1002.0	+2	SW	4	bc	52	75	8	2500	Cu	3	Ci	4	2
S. Farnborough	1001.7	+2	SW	4	bc-	52	75	7	1500	St	3	Ci	7	2
London (Kew Obsy.)	1002.2	+4	SW	3	c	52	85	6	4000	Stcu	1	Ci	8	2
Croydon	1002.5	+4	SW	3	bc-	53	75	6	800	St	3	Ci	7	2
Shoeburyness	1002.2	+5	WSW	4	c/r	52	85	7	1500	St	7	Astr	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1001.7	+4	SW	4	c	52	85	6	—	—	0	Astr	10	2
Lympne	1002.7	+3	WSW	4	c	52	85	7	2500	Stcu	9	-	9	2
Scilly (St. Mary's)	999.3	+1	SW	6	b	52	85	7	4000	Cu	2	-	2	•
Falmouth (Pendennis)	1001.8	+1	SWW	7	bc	53	75	8	4000	Cu	3	Acu	5	•
Plymouth (Mt. Batten)	1001.4	+1	SW	6	bc-	53	75	8	2500	Cu	4	-	4	2
Portland Bill	1001.1	+3	SW'W	4	c	54	75	8	1500	Stcu	8	-	8	•
Southampton (Calshot)	1002.6	+1	WSW	4	bc-	55	65	7	1500	Cu	1	Ci	3	2
Dungeness	1003.4	+5	WSW	3	c-	53	92	7	2500	Cu	4	Acu	9	•
Guernsey (St. Peter Port)	1005.8	+2	SW	3	bc-	54	75	6	2500	Stcu	6	-	6	•

Observations at 18h. G.M.T. 4th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	988.8	-2	S	3	Orf.	48	92	7	1500	Nb	10	-	10	•
Stornoway	985.5	0	S	8	x-	46	85	7	4000	CuNb	4	-	4	4
Wick	988.7	0	SSW	3	bc	46	85	8	2500	CuNb	2	Acu	3	4
Tiree	986.2	-1	S'W	5	bc-	45	95	8	1500	Stcu	3	-	3	6
Nairn	988.9	•	SW'S	2	bc	44	85	8	2500	Stcu	5	-	5	•
Aberdeen	992.3	+1	SSW	3	b	43	85	6	-	-	0	Astr	1	4
Malin Head	987.1	-4	SSE	4	b	44	85	7	4000	Stcu	2	-	2	4
Renfrew	992.2	-1	S	3	b+	41	92	7	2500	Cu	2	-	2	•
Edinburgh (Inchkeith)	992.7	0	SSW	2	bc	50	55	8	800	St	3	-	3	0
Leuchars	992.7	0	SW	2	b-	41	85	7	2500	St	1	-	1	•
Eskdalemuir	994.1	0	SSW	4	bc/pr	40	92	7	1600	CuNb	6	-	6	•
Tynemouth	995.2	+1	SSW	2	bc	44	85	6	800	St	4	-	4	2
Blacksod Point	983.0	-5	S	5	c	48	75	8	•	CuNb	10	-	10	7
Donaghadee	990.5	-1	SSW	2	b	45	85	8	—	—	0	-	0	0
Birr Castle	987.8	-7	S	3	c	45	85	7	2500	St	4	Astr	9	•
Holyhead	995.7	0	S'W	4	b-	50	85	8	2500	CuNb	2	-	2	1
Liverpool (Bidston)	996.6	0	S	4	bc+	45	85	8	2500	Stcu	3	Astr	7	•
Chester (Sealand)	997.4	+1	SSE	3	b-	42	92	7	4000	Stcu	2	-	2	•
Harrogate	998.0	+1	SSW	3	bc	45	85	5	2500	St	6	-	6	•
Spurn Head	998.2	+1	SW'S	4	bc-	46	92	7	5700	Stcu	4	-	4	3
Birmingham (Edgbaston)	1000.9	+2	S	4	b	48	85	8	4000	Stcu	1	-	1	•
Cranwell	1000.8	+2	S'W	3	b	43	92	7	—	—	0	Acu	1	•
Gorleston	1003.8	+4	SSW	3	b	49	85	6	-	-	0	-	0	0
Valentia (Cahirciveen)	980.5	-15	SSE	7	c/pr.	50	75	8	1500	St	7	Astr	10	6
Roches Point	982.2	-6	SW	7	c	51	92	7	1500	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	995.2	-1	SW	5	bc-	51	92	8	1500	CuNb	8	-	5	4
Ross-on-Wye	1000.6	+2	SW'S	4	b	48	75	7	4000	Stcu	1	-	1	•
Leafield	1002.0	+2	S	4	b	44	85	8	—	-	0	-	0	•
Winchester (Worthy Dn.)	1003.8	+1	S'W	4	b-	48	85	7	—	-	0	-	0	•
S. Farnborough	1004.0	+2	SW	3	br.	48	85	7	1500	CuNb	2	-	2	•
London (Kew Obsy.)	1004.4	+2	SSW	3	b	49	85	7	—	—	0	-	0	•
Croydon	1004.5	+1	SW'S	4	br.	48	85	6	1500	St	2	-	2	•
Shoeburyness	1005.4	+3	SSW	4	b-	48	92	8	-	-	0	-	0	•
Clacton-on-Sea	1006.0	+5	SW	4	b	49	85	7	4000	Cu	1	-	1	3
Felixstowe	1005.6	+4	SSW	4	b	49	85	7	-	-	0	-	0	3
Lympne	1006.7	+5	SSW	4	b-	48	92	7	2500	Stcu	2	-	2	•
Scilly (St. Mary's)	999.5	-6	SSW	7	bc	51	85	7	4000	Stcu	4	Ci	5	5
Falmouth (Pendennis)	1000.3	-3	SSW	8	bc	52	85	8	4000	CuNb	4	-	4	3
Plymouth (Mt. Batten)	1001.2	-1	SSW	6	c+	52	85	8	2500	Cu	8	-	8	5
Portland Bill	1002.3	+1	SW'S	6	bc	53	75	8	1500	Stcu	5	-	5	5
Southampton (Calshot)	1004.6	+2	SW	4	b/pr	51	85	7	2500	CuNb	2	-	2	3
Dungeness	1006.7	+4	SW	4	bc-	52	85	8	2500	Stcu	6	-	6	3
Guernsey (St. Peter Port)	1007.0	+2	SW	3	c+	53	85	7	2500	Stcu	8	-	8	6

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility 9h.
Kew	18	cu.	bcb	bc orrg	53	48	43	-	7	1.4	•	•	6
Croydon	244	cr bcu	bcbzm	bc o RR	53	47	44	Tr.	11	1.4	•	•	6
Greenwich (Royal Obsy.)	149	c	cb	cbRT	54	47	37	-	15	1.0	66	87	6
City (Bunhill Row)	90	•	•	bcrg RR	•	•	•	•	•	0.1	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	56	49	43	8		0.8	72	87	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	c	cbc	•	52	48	•	-	8	•	•	89	•
Kensington Palace	80	bc	bc	•	54	49	41	-	9	•	(At 18h.) 74	89	•
Hampstead Observatory	450	•	•	•	52	44	40	Tr.	8	1.3	•	93	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	0.8	13h. 4th	<0.3	3-7h. 5th.

Kew Observatory	Max.	Time.	Min.	Time.
	0.2	16-17h. 4th	<0.1	23h. 4th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 4th 17h. 00m. to 5th 6h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	7.10	52
δ Ursae Minoris	13.45	6.16	46

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

4th and 5th Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.49	11.44	15.38
	7.50	11.44	15.38
Greenwich	7.50	11.51	15.51
	7.51	11.51	15.50
Wick	8.45	12.3	15.21
	8.47	12.3	15.20
Valentia	8.33	12.32	16.29
	8.35	12.32	16.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). / before (for precipitation).
⊕ = solar halo. ∇ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; — = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell } Calm or slight sea.
2=heavy swell } Calm or slight sea.
3=no swell } Moderate sea.
4=mod. swell } Moderate sea.
5=heavy swell } Moderate sea.
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

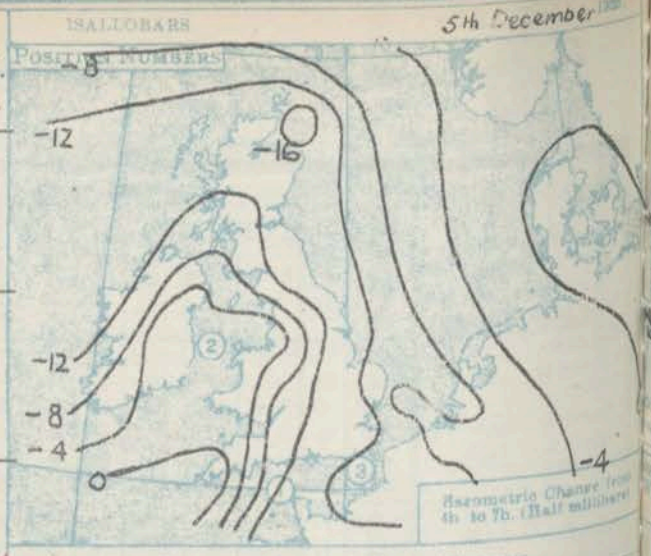
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace or rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 4th	WEATHER. 13h.-18h. 4th	WEATHER. 18h. 4th to 1h. 5th	WEATHER. 1h.-7h. 5th	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night 18h.-7h.	TEMPERATURE. MIN. on Grass	RAINFALL† Day. 7h.-18h. mm	RAINFALL† Day. 7h.-18h. began.	RAINFALL† Night. 18h.-7h. mm.	RAINFALL† Night. 18h.-7h. began.	SUN 4th. Hours.
Lerwick	cogr	orr,ir	ocr,c-bc	bc	49	44	•	8	9.00	1	<21.00	0.0
Stornoway	p	cprec	c	c	47	45	•	7	<8.00	–	–	0.0
Wick	ourbc	b-bc	b-bc	bbc	47	45	•	6	<8.00	–	–	•
Tiree	bc,c	c,bc	bc,c,r	r,R	48	45	42	–	–	7	24.00	1.4
Nairn	bcpr	bc	bc	cq	45	41	•	0.2	<8.00	–	–	3.8
Aberdeen	orrqcm	cb	b	bccor	48	41	32	7	<8.00	2	6.30	0.0
Malin Head	bbc	bcb	bcc	cirbc	45	43	•	–	–	2	24.00	2.9
Renfrew	crbcz	bcz b	b,c	cq,r	49	40	35	0.4	<8.00	1	5.30	2.7
Edinburgh(Inchkeith)	oircbc	b-bc	b-bc	becoir	49	43	37	0.4	<8.00	0.2	3.30	3.2
Leuchars	crrc,bc	bccjpbcb	bwbc	bccoirq	48	36	30	2	<8.00	0.2	5.30	1.5
Eskdalemuir	cprbc	bcprh	bcprbc	bcorrir	45	39	34	2	<8.00	10	<21.00	0.6
Tynemouth	ourm	obc	bc	bcoirq	49	44	39	3	<8.00	1	5.30	•
Blacksod Point	pqbc	cq	rrc	rqr	50	46	•	2	•	12	•	•
Donaghadee	b	b	bcir	irrc	50	45	•	–	–	8	22.00	•
Birr Castle	bbcb	bcrc	oirq	orrcbu	49	44	38	Tr.	17.30	9	<21.00	5.5
Holyhead	bcpr	prbc	ir	iRRq	52	49	45	0.5	11.00	8	<21.00	2.7
Liverpool (Bidston)	bccp	cpb	bbcp	crQr	50	43	40	Tr.	9.00	3	24.00	1.4
Chester (Sealand)	cdmbc	cprbc	bbc	cqRR	53	42	37	Tr.	9.00	11	2.30	2.1
Harrogate	orc	cbbc	bcb	cQrr	48	42	34	1	<8.00	3	3.30	1.1
Spurn Head	cpr	cbc	bc	bccorq	50	44	•	0.6	<8.00	2	3.30	0.0
Birmingham(Edgbaston)	prcc	bccb	bbc	bcorr	49	43	40	0.3	<8.00	8	1.30	1.7
Cranwell	cdc	ombb	bbw	bercr	50	42	37	0.2	<8.00	2	3.30	0.9
Gorleston	orc	cbc	bq	bccq	54	46	43	0.1	<8.00	0.2	6.30	0.0
Valentia(Cahirciveen)	bccp	bccp	cpcRR	ircorr	50	47	41	1	9.00	18	<21.00	2.5
Roches Point	bc	bcc	corr	orbc	52	45	•	–	–	12	22.00	•
Pembroke(St.Ann's H.)	bcpq	bcq	cRrq	oRrbcq	52	49	•	1	11.00	16	22.00	2.8
Ross-on-Wye	cbc	cmpbc	bqcoro	RRq	51	47	41	0.1	14.30	24	22.00	1.9
Leafield	rcbc	bcb	bbc	cprorRR	50	43	40	0.3	<8.00	5	24.00	2.9
Winchester (Worthy Dn.)	crmcbc	bccrhb	bbcco	orRRq	53	46	43	0.5	14.30	12	1.30	2.5
S. Farnborough	ormc	bcbbcpb	cpr	corr	53	47	42	1	<8.00	9	<21.00	1.9
London (Kew Obsy.)	cm	bcb	bc	orm	53	48	43	–	–	7	2.30	1.4
Croydon	crbcm	bcbzm	bmrobc	bcorrRR	53	47	44	Tr.	<8.00	11	<21.00	1.4
Shoeburyness	curc	cbcb	b	oqrr	53	46	43	1	<8.00	1	4.30	0.3
Clacton-on-Sea	co	ocbcb	b	bbccq	51	47	44	–	–	–	–	0.0
Felixstowe	omc	bcb	bbcc	cor	52	48	45	Tr.	11.00	Tr.	6.30	0.0
Lympne	orrc	cbc	bbc	bcorrq	53	46	44	Tr.	<8.00	1	4.30	0.1
Scilly (St. Mary's)	bcpb	bbcp	bcor	orrbc	52	48	•	1	<8.00	11	<21.00	5.9
Falmouth (Pendennis)	bc Pq	bcq	bcorq	orrq	54	48	•	0.6	9.00	17	<21.00	6.1
Plymouth(Mt.Batten)	cbq	bqc	qcor	oRRqu	54	45	44	–	–	26	22.00	4.0
Portland Bill	c	cbc	cpo	orRRm	55	48	•	–	–	6	24.00	•
Southampton(Calshot)	crcbc	bcqprb	bqbcc	corRm	54	49	47	Tr.	16.30	7	2.30	2.4
Dungeness	ccrrc	cbc	bcq	bcqcorr	54	50	•	1	<8.00	0.5	3.30	•
Guernsey	ocbc	bbcc	cqo	pbqr	54	52	48	–	–	3	1.30	3.5



Observations from Ocean Channel Steamers

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	4th 10h	Hibernia	SSW	4	b-	50	52	7
3	5th 2h	Arundel	SSW	5	bc	53	52	7

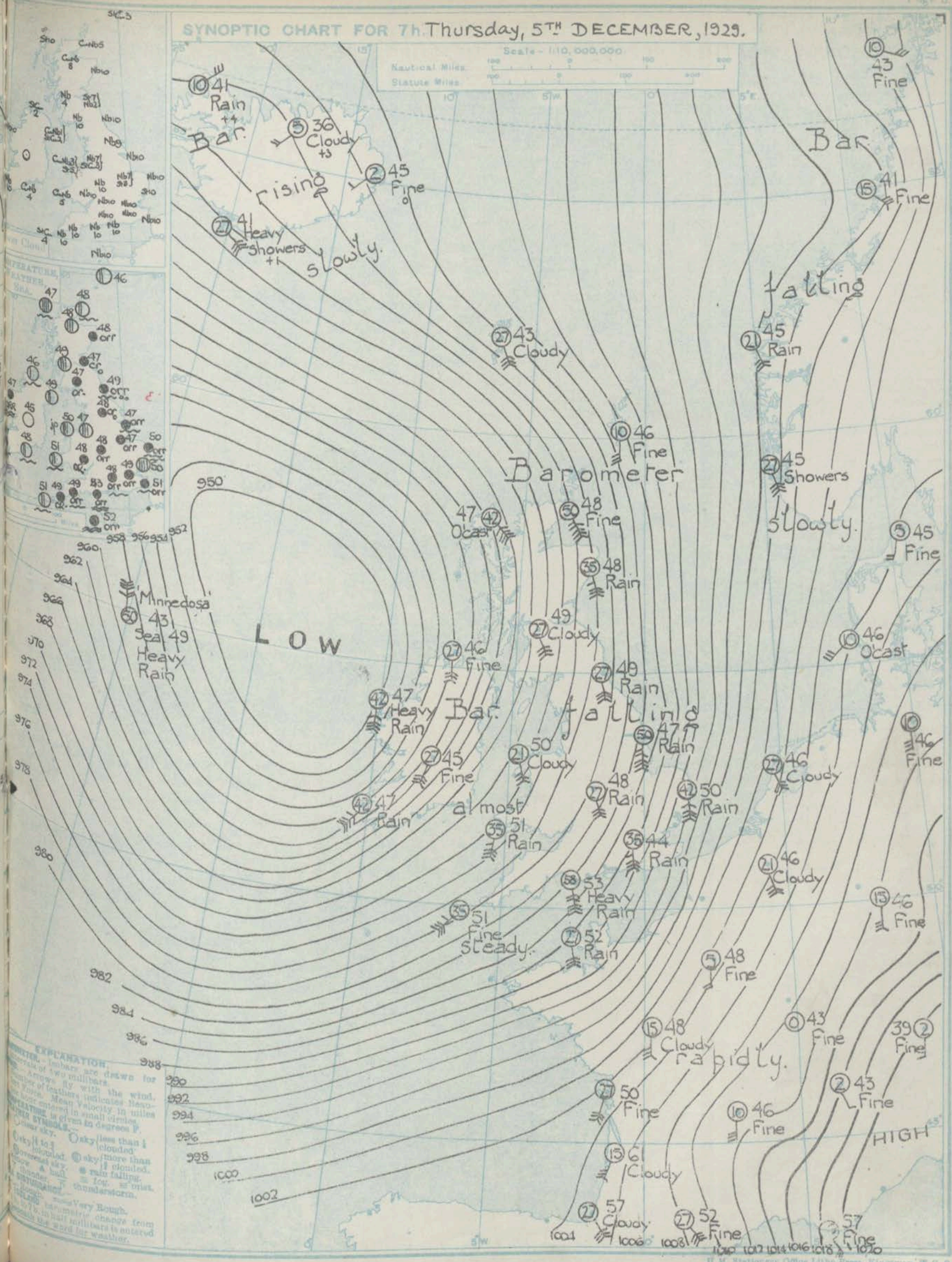
GENERAL INFERENCE.

A very deep depression off Northwest Ireland will move northeastward to a position off Northern Scotland and will then fill up without much further movement. Gales will subside slowly after today but strong squally winds will continue, with showers and bright intervals.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 5th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind southwest, strong to gale, moderating somewhat later but squally; considerable bright intervals but some showers with local hail; temperature falling somewhat.	Unsettled but bright intervals. South Cone still flying in districts 5 to 8, 12, 13A, 13B, and 15 to 20. South Cone hoisted at 17h. yesterday in districts 1, 2, 10 and 11.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind southwest to west, gale, moderating later to strong squally wind; heavy showers, with local hail and perhaps thunder; bright intervals; somewhat colder.	
10. N.E. England 11. S.E. Scotland	As 1 - 4.	
12. S.W. Scotland & Isle of Man 13 A. W. Scotland 13 B. N.W. Scotland 14. Mid-Scotland	As 5 - 9.	
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Gale from S.E. to S., veering S.W. to W., moderating somewhat later, intermittent rain at first, considerable bright intervals later but showers; mild, then somewhat colder. As 5 - 9.	

† For code see page 1

† Trace = rain has fallen, but amount less than 0.1 mm.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 5th December 1929. No. 339.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 5th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 5th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun 0-9
Lerwick	34	989.2	0	S	2	bc	47	85	8	1500	ac Cu	3	-	3	984.7	-6	S'E	4	bc	46	85	8	1500	StCu	3	-	3	.
Stornoway	30	982.1	-7	S	5	c+	•	•	6	•	•	•	•	9	965.1	-14	ESE	8	0	47	75	7	2500	St	10	-	10	7
Wick	81	986.9	-4	SSW	7	b	46	92	8	4000	St.	1	-	1	975.8	-16	SE	9	bc	48	92	8	2500	CuNb	5	-	5	7
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	961.2	-9	S	7	c+r	49	85	7	2500	CuNb	5	Acu	8	
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•	970.1	•	SW'S	4	c	48	75	8	1500	CuNb	8	-	8	.
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	976.9	-13	SSE	7	orr	48	85	6	1500	Nb	10	-	10	4
Malin Head	51	969.8	-19	SSE	6	cdo	49	85	7	4000	nb.	2	Ci.St.	9	959.9	-4	SSE	6	b	46	75	8	4000	StCu	2	ACu	2	6
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	963.8	-12	SSE	6	c/r	49	85	7	1500	Nb	4	ASt	9	.
Edinburgh (Inchkeith)	190	990.0	-3	SSW	3	b	44	85	8	1500	St.	2	-	2	971.7	-15	SE	6	c/r	47	85	8	1500	St	9	-	9	3
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	973.8	-15	SE	5	or	47	85	7	800	Nb	10	-	10	.
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	971.5	-14	SSE	6	or	47	85	7	1500	Nb	10	-	10	.
Tynemouth	67	992.2	-5	S	3	ac+	44	85	6	800	St.	6	-	6	978.1	-13	SSE	6	orr	49	92	7	1500	Nb	10	-	10	6
Blacksod Point	18	959.7	-9	S	7	c	51	75	7	•	CuNb.	10	-	10	950.2	-12	S	8	oRR	47	75	7	•	Nb	10	-	10	8
Donaghadee	43	•	•	•	•	•	•	•	•	•	•	•	•	•	965.8	-5	SW	4	bc/r	49	85	7	4000	StCu	3	-	3	3
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	960.8	-3	SSW	6	b	45	65	8	-	-	0	-	0	.
Holyhead	26	981.6	-16	SSE	8	ors	51	85	6	1500	nb.	10	-	10	971.4	-1	S'E	5	c/p	50	85	6	1500	St	8	-	8	4
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	974.4	-3	S	5	c/r	47	85	7	2500	Nb	10	-	10	.
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	975.7	-6	S'E	5	or	47	85	6	800	St	10	-	10	.
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	977.7	-12	S	8	cr	48	85	7	2500	Nb	9	ASt	10	.
Spurn Head	29	995.9	-2	SSW	6	bc	46	97	6	4000	nb.	3	-	3	982.6	-12	S	9	orr	47	97	6	2500	Nb	10	-	10	6
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	978.9	-12	SSE	6	orr	48	92	7	800	Nb	10	-	10	.
Cranwell	236	996.8	-6	SSE	5	bc	44	92	7	4000	St.Cu.	2	A.St.	7	983.5	-12	SSE	7	orr	47	97	6	800	Nb	10	-	10	6
Gorleston	14	1002.4	-2	S'W	6	b	50	92	7	-	-	0	-	0	997.5	-9	S	8	orr	50	92	6	1500	Nb	10	-	10	.
Valentia (Cahirciveen)‡	30	963.6	-3	S	6	b-	48	85	9	•	St.	2	-	2	957.0	-7	SSW	8	orr	47	85	6	1500	Nb	10	-	4	7
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	966.8	-3	SW	7	bc	48	85	7	1500	CuNb	4	-	5	7
Pembroke (St. Ann's H.)	180	979.6	-22	S	8	oRR	50	97	6	800	nb.	10	-	10	972.5	-1	SSW	7	bc/r	51	85	8	1500	CuNb	5	-	10	.
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	979.3	-9	S'W	5	oR-	48	92	6	1500	Nb	10	-	10	.
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	980.6	-11	SSE	8	oRR	46	97	6	800	Nb	6	-	10	.
Winchester (Worthy Dn.)	372	•	•	•	•	•	•	•	•	•	•	•	•	•	985.3	-12	S'E	7	oRR	48	92	6	220	Nb	10	-	10	.
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	986.6	-12	S	7	orr	48	85	5	800	Nb	10	-	10	.
London (Kew Obsy.)	18	•	•	•	•	•	52	•	•	•	•	•	•	•	987.3	-14	S'E	7	orr	49	85	8	800	Nb	10	-	10	.
Croydon	244	1000.4	-7	SSW	5	bc	51	85	7	1500	St.	7	-	7	989.1	-12	S	7	oRR	47	97	6	450	Nb	10	-	10	.
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	991.8	-10	SSE	8	crr	49	92	7	1500	St	4	ASt	10	5
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	993.6	-12	S	7	0	50	85	7	4000	St	10	-	10	6
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	993.7	-6	S	8	orr	50	85	7	800	Nb	10	-	10	.
Lympne	350	1004.2	-2	S	6	bc+	50	85	8	2500	St.Cu.	4	-	4	994.1	-10	S'E	6	or	49	85	6	800	Nb	10	-	10	.
Scilly (St. Mary's)	163	976.7	-18	S	10	oRR	51	97	5	2500	nb.	10	-	10	976.5	0	SW'W	7	bc	51	65	8	4000	StCu	4	ACu	6	7
Falmouth (Pendennis)	200	984.4	-17	SSW	11	orr	53	85	7	2500	nb.	10	-	10	978.5	0	SW'W	6	oR-	49	97	7	2500	Nb	10	-	10	4
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	979.3	0	SW	6	orr	49	85	7	1500	Nb	10	-	10	6
Portland Bill	32	994.1	-14	S'E	7	c/p	54	75	7	1500	St.Cu.	10	-	10	979.5	-10	S'E	10	oRR	53	85	5	1500	Nb	10	-	10	8
Southampton (Calshot)	10	993.8	-8	S'W	7	c	52	75	8	2500	St.Cu.	5	A.St.	8	985.3	-12	S	9	oRR	49	97	6	450	Nb	10	-	10	8
Dungeness	20	1002.9	-4	SSW	7	bc+	52	95	8	2500	Cu.	4	-	4	989.9	-10	SSW	8	orr	51	85	7	1500	Nb	10	-	10	8
Guernsey (St. Peter Port)	173	993.0	-13	SSE	5	c	54	75	7	2500	St.Cu.	10	-	10	986.0	-12	SSE	6	orr	52	92	6	800	Nb	10	-	10	.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 4th December.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 4th to 9h. 5th °F.	Temperature. Max. 9h. -17h. 5th °F.	Rainfall.† Night 17h.-9h. 4th-5th mm.	Rainfall.† Day 9h.-17h. 5th mm.	Sunshine. Sunrise to Sunset. 4th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	cbcb	42	47	1	-	0.2
Douglas (I. o. M.)	bcc	bccd	42	50	7	Trace	4.6
Llandudno	c	pcbc	46	52	1	0.2	1.2
Colwyn Bay	bbcpc	cbcb	45	52	2	0.3	1.7
Rhyl	robc	pbc	45	52	3	1	2.2
Wallasey	bbo	bc	42	53	6	Trace	1.4
Southport	obc	bcopb	* 45	51	2	Trace	1.6
Blackpool	orc	cpc	43	50	4	0.4	0.6
Morecambe	cbcc	cbccr	41	48	3	Trace	0.4
Ilkley	oc	cbc	40	49	2	-	0.5
Cleethorpes	0	oc	42	50	2	-	0.0
Mablethorpe	omp	pcbum	40	51	2	Trace	0.0
Skegness	copro	cb	43	51	1	Trace	0.2
Aberystwyth	crbc	bc	46	61	6	-	3.1
Bath	cbc	bcob	38	53	5	-	3.9
Cheltenham	orbbc	bbc	46	62	6	-	2.5
Leamington Spa	c	c	42	51	4	-	1.7
Lowestoft	o	ocbc	43	53	3	-	0.1
Harwich & Dovercourt	rococ	bc	43	52	6	-	1.1
Maldon	rco	cbc	43	54	5	-	0.2
Ilfracombe	ocp	cbcb	46	52	3	1	1.6
Bude	bwp	bcpo	46	54	1	Trace	4.8
St. Ives	c	c	45	52	8	-	5.3
Penzance	b	b	46	55	4	-	6.2
Paignton	orpc	cbcrpb	49	54	9	2	3.3
Torquay	rpc	cpbcbq	50	55	5	1	3.9
Jersey	rc	bc	49	55	5	-	4.5
Weymouth	cb	bbcpb	50	55	7	0.1	3.9
Bournemouth	oc	bbcbc	48	54	4	-	2.2
Ventnor	rouc	cbpc	48	53	3	1	2.3
Portsmouth (S'thsea)	o	cbcp	48	54	3	1	2.3
Bognor Regis	ocbc	bcbc	49	54	7	-	1.4
Littlehampton	cbc	bc	49	53	8	-	1.3
Worthing	c	cbc	49	54	8	-	1.1
Brighton	ocbc	bc	49	53	8	-	0.8
Eastbourne	oc	bc	50	54	11	-	0.5
Hastings‖	odoc	cbcc	48	54	11	0.2	0.2
Folkestone	orc	c	48	54	11	0.3	0.0
Dover	orc	cb	41	55	9	1	0.3
Deal	o	o	40	55	11	-	0.0
Tunbridge Wells	coc	bcc	40	53	8	-	0.6
Ramsgate	o	o	48	54	7	-	0.0
Margate	c	bc	47	55	8	-	0.0
Southend	orb	cb	43	52	9	0.2	0.4

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* Information not usually received. ‖ The observations at 1h. G.M.T., from an auxiliary station. § For code see (page 1). ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24851. FRIDAY. 6th DECEMBER 1929.

Observations at 13h. G.M.T. 5th

Stations. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of Ground.
Lerwick	975.6	-14	SE	8	Orr.r	48	92	7	1500	Nb	10	-	10	•
Stornoway	969.8	-4	SSE	5	bc-	50	65	8	4000	Cu	2	Ci	3	•
Wick	968.2	-7	SE	8	C	49	92	7	1600	Nb	5	Acu	10	•
Tiree	954.2	-8	SSE	8	Or+	47	85	6	2500	Nb	10	-	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	969.2	-4	SSE	6	bc	49	85	6	1500	Nb	1	Acu	7	2
Malin Head	953.9	0	SSE	7	cr.	47	86	7	2500	Cu	8	-	8	•
Renfrew	965.3	-7	SE	6	bc/p	48	75	7	2500	CuNb	4	Acu	6	2
Edinburgh (Inchkeith)	968.0	-3	S	4	bc	49	65	8	1500	St	2	Acu	4	•
Leuchars	968.1	-4	SSE	5	b/pg	49	75	8	2500	Cu	2	Acu	2	2
Eskdalemuir	968.3	-4	S'E	4	bc	45	75	8	2500	Scu	7	-	7	2
Tynemouth	972.6	-4	S	4	c/r	49	85	6	1500	Nb	8	-	8	•
Blacksod Point	944.4	-2	S	8	C	51	75	7	•	CuNb	10	-	10	•
Donaghadee	960.6	-4	SW	6	c/p	49	75	7	4000	CuNb	8	-	8	•
Birr Castle	957.4	-3	SSW	6	cr	48	85	7	1500	St	9	-	9	•
Holyhead	968.4	-5	S	7	cr.	51	75	6	1500	Nb	8	-	8	2
Liverpool (Bidston)	972.0	-4	S	5	b-	48	75	7	2500	CuNb	2	-	2	•
Chester (Sealand)	973.0	-4	S'E	4	bc+	49	75	7	1500	St	6	-	6	2
Harrogate	974.6	-1	S	5	c+	47	85	5	2500	Nb	3	Ast	9	•
Spurn Head	976.3	-2	SSW	7	crr.	47	97	6	4000	Nb	5	Ast	10	•
Birmingham (Edgbaston)	977.6	-2	SSW	4	bc-	48	65	8	-	-	0	Acu	3	2
Cranwell	978.2	-3	SSW	4	crr.	47	85	8	1500	Nb	8	Ast	10	2
Gorleston	983.7	-12	S	8	orr	48	97	6	800	Nb	10	-	10	•
Valentia (Cahirciveen)	962.0	+8	SWW	8	O/r	49	85	7	1500	Nb	10	-	10	2
Roches Point	966.0	0	WSW	6	cr	49	92	7	1500	Nb	9	-	9	•
Pembroke (St. Ann's H.)	970.8	-3	SSW	10	c+	50	85	6	1500	CuNb	10	-	10	•
Ross-on-Wye	977.8	-2	SSW	5	bc	50	65	7	4000	Cu	3	Cicu	3	2
Leafield	979.2	-3	S	4	bc/pg	45	85	8	4000	Scu	4	Ast	6	2
Winchester (Worthy Dn.)	982.0	-2	S'W	4	C/r	46	85	8	4000	Scu	6	Ast	9	2
S. Farnborough	981.8	-2	SW	5	Cr-	49	85	7	800	Nb	9	-	9	2
London (Kew Obsy.)	981.7	-3	SSW	4	Crr	50	92	6	800	Nb	9	Ast	10	2
Croydon	983.0	-4	SSW	5	Or.	49	92	6	450	Nb	10	-	10	2
Shoeburyness	982.2	-10	S'W	8	orr	49	97	7	1500	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	984.4	-10	S	8	ORR	48	97	6	450	Nb	10	-	10	2
Lympne	984.1	-10	S	7	orr	48	97	5	450	Nb	10	-	10	2
Scilly (St. Mary's)	978.1	+1	SWW	8	c/p	51	65	6	4000	CuNb	9	-	9	•
Falmouth (Pendennis)	978.9	0	SWW	9	bc/pg	51	65	8	4000	CuNb	7	-	7	•
Plymouth (Mt. Batten)	979.7	-1	SW	8	b/pg	51	65	8	2500	CuNb	2	-	2	2
Portland Bill	979.9	+2	SW	7	bc-	53	75	8	2500	Scu	2	Acu	7	•
Southampton (Calshot)	982.4	-1	WSW	5	C/r	48	85	8	1500	Scu	6	Ast	8	1
Dungeness	983.4	+10	SSW	8	Orr	50	92	6	1500	Nb	10	-	10	•
Guernsey (St. Peter Port)	985.6	+1	SW	4	C-	53	75	7	2500	Scu	8	-	8	•

Observations at 18h. G.M.T. 5th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	970.4	-18	SE	8	Orr.	48	92	7	1500	Nb	10	-	10	•
Stornoway	954.5	-8	ESE	6	C	48	75	7	2500	Nb	9	-	9	5
Wick	964.4	-4	SE	8	bc	47	92	7	2500	St	3	-	3	7
Tiree	948.2	-7	S'E	7	or	48	97	6	1500	Nb	10	-	10	8
Nairn	958.6	•	SW	5	C	47	75	8	1500	CuNb	8	-	8	•
Aberdeen	966.3	-6	SSE	6	b	48	75	6	-	-	0	Acu	1	6
Malin Head	948.5	-2	S	6	bc r.	48	85	7	2500	Scu	5	-	5	6
Renfrew	959.3	-7	SE	6	c dub	47	85	6	1500	Nb	6	Ast	10	•
Edinburgh (Inchkeith)	964.1	-4	SE	4	O	47	75	8	1500	St	10	-	10	2
Leuchars	963.5	-7	SSE	6	C+	47	65	7	2500	Scu	6	Ast	9	•
Eskdalemuir	963.4	-7	S	7	ORR	42	92	5	1500	Nb	10	-	10	•
Tynemouth	970.8	-2	S	4	c+	47	65	7	2500	Cu	8	-	8	5
Blacksod Point	958.8	+8	WNW	9	OR	49	85	6	•	Nb	10	Ast	10	9
Donaghadee	957.4	-2	SW	6	cr.	48	85	7	1500	Nb	9	-	9	3
Birr Castle	965.6	+11	WSW	6	cr.	47	85	7	2500	St	9	Ast	10	•
Holyhead	968.0	+3	SW'S	7	bc-	51	85	6	1500	St	7	-	7	7
Liverpool (Bidston)	970.9	-2	S'W	5	or.	48	75	8	2500	Nb	10	-	10	•
Chester (Sealand)	971.5	-1	S'E	4	cr.	47	85	7	1500	St	8	-	8	•
Harrogate	972.6	-1	S	5	b	46	75	7	2500	Nb	1	-	1	•
Spurn Head	976.0	0	SW'S	6	bc	46	85	7	4000	Nb	3	-	3	5
Birmingham (Edgbaston)	978.1	+1	SSW	6	bc	46	75	8	2500	Scu	6	-	6	•
Cranwell	978.1	+1	SSW	6	b	45	85	8	4000	Scu	1	-	1	•
Gorleston	983.4	+2	SSW	5	bc-	48	92	6	4000	Cu	5	-	5	5
Valentia (Cahirciveen)	976.9	+16	WSW	8	cr	47	75	7	1500	Nb	9	-	9	8
Roches Point	975.0	+13	WNW	5	bc	47	92	7	1500	CuNb	4	-	4	7
Pembroke (St. Ann's H.)	973.6	+2	W	9	c	51	85	6	1500	CuNb	8	Ast	10	8
Ross-on-Wye	978.6	+1	SSW	6	or	46	85	6	2500	Nb	10	-	10	•
Leafield	980.5	+2	SSW	5	bc	46	75	8	4000	Cu	3	-	3	•
Winchester (Worthy Dn.)	984.8	+4	SWS	4	bc r.	47	85	8	2500	Scu	5	-	5	•
S. Farnborough	984.1	+4	SW	5	bc r.	48	75	7	2500	CuNb	4	-	4	•
London (Kew Obsy.)	984.4	+4	SSW	5	bc/pg	48	75	8	1500	St	3	-	3	•
Croydon	985.2	+3	SW	5	b-	48	75	6	1500	St	1	-	1	•
Shoeburyness	985.5	+4	SSE	4	b-	49	85	8	-	-	0	-	0	•
Clacton-on-Sea	985.1	(+3)	SSW	5	bc	48	92	7	2500	St	7	-	7	5
Felixstowe	985.7	+5	SSW	5	b	49	85	7	-	-	0	-	0	4
Lympne	986.9	+3	SW	5	cr	48	85	7	800	Nb	6	Ci St	9	•
Scilly (St. Mary's)	982.4	+4	W	8	bc	50	75	7	4000	Cu	4	-	4	8
Falmouth (Pendennis)	982.5	+5	WSW	8	bc-	51	75	7	4000	CuNb	6	-	6	5
Plymouth (Mt. Batten)	983.4	+5	SW	8	cr.	51	75	8	1500	CuNb	8	-	8	6
Portland Bill	983.4	+4	SW	8	bc	52	85	8	1500	Scu	7	-	7	8
Southampton (Calshot)	985.6	+5	W'S	6	cr.	51	75	7	2500	CuNb	8	-	8	6
Dungeness	987.3	+5	SW	6	bc/r	51	85	8	2500	Cu	5	-	5	7
Guernsey (St. Peter Port)	989.9	+6	WSW	4	C/PR	48	85	7	2500	Scu	10	-	10	8

LOWDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (M HOURS ENDED 9a.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility.§ (TO-DAY.)
Kew	18	cqcr	crb	bcbb	52	44	39	7	Tr	0.5	•	•	6
Croydon	244	ORrm	orscbs	bcb	49	45	39	17	-	0.2	•	•	6
Greenwich (Royal Obsy.)	148	crra	crdcbb	bcbw	50	42	30	5	Tr	0.0	82	81	6
City (Bunhill Row)	26	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	52	45	39	5		0.0	79	74	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	or	orch	•	50	44	•	3	-	•	•	79	•
Kensington Palace	80	or	bc	•	50	44	34	3	-	•	(At 18h) 72	79	•
Hampstead Observatory	450	•	•	•	49	39	32	3	-	0.3	•	87	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time
0.8	16h 5th	<0.3	23h 5th - 5h 6th

Kew Observatory Max.	Time.	Min.	Time.
0.1	17h 5th	<0.1	0-6h 6th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 5th 17h 20m. to 6th 6h 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	13.1	95
δ Ursae Minoris	13.45	11.53	86

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

6th-7th DECEMBER, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.50	11.44	15.38
	7.52	11.44	15.37
Greenwich	7.51	11.51	15.50
	7.53	11.51	15.50
Wick	8.47	12.3	15.20
	8.48	12.4	15.19
Valentia	8.35	12.32	16.29
	8.36	12.32	16.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_o = slight rain.
zr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). / before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

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

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

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

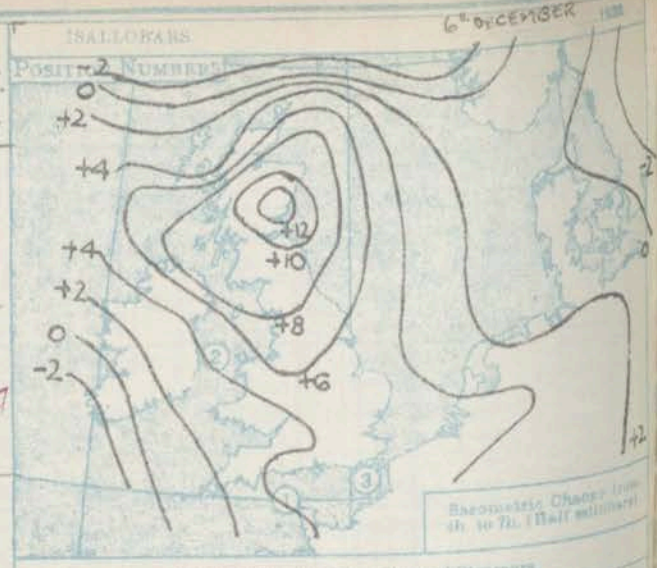
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
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.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 5h.	18h.-18h. 5h.	18h. 5h. to 1h. 5h.	1h.-7h. 6h.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 5h. Hours.
Lerwick	bccorr	orrs	coirc	cirq	48	47	*	6	<8.00	2	<2100	0.0
Stornoway	c	bccq	cp rc	p	50	45	*	–	–	3	22.00	1.8
Wick	bcoir	bbc	bcpr	c	49	47	*	0.2	<8.00	0.1	22.00	
Tiree	c	cir	R ir	R	49	46	42	2	12.30	5	<21.00	0.0
Nairn	cpqbc	bcqc	cpqq	qbc	48	44	*	0.4	<8.00	0.3	<2100	1.8
Aberdeen	rrqqbcq	cbcb	bcirq	cbcq	49	46	43	3	<8.00	0.1	<2100	0.0
Kalin Head	bbc cp	curbcr	cqpr	cPR	48	45	*	1	13.30	7	<2100	0.0
Renfrew	cbcbq	bccqrr	dorrq	rrqirq	49	45	42	0.6	13.30	9	<2100	2.8
Edinburgh (Inchkeith)	cirbc	bcbir	cprbc	bbrbc	49	43	43	Tr.	<8.00	1	<2100	3.4
Leuchars	orcpbq	bbccq	corQ	cQQbcprQ	50	44	44	Tr.	2.00	1	<2100	*1.7
Eskdalemuir	oircprbc	cprcbrr	orr	crurc	47	41	35	3	<8.00	17	<2100	0.7
Tynemouth	oirq	cbcq	bcq	bcq	49	46	42	2	<8.00	–	–	*
Blacksod Point ...	rrqc	rrq	phqc	bhqc	52	42	*	15	*	4	*	*
Donaghadee	bccq	cqirr	irbc	bcb	50	42	*	1	15.30	1	<2100	*
Birr Castle	bcirq	~~bccq~~	cirq	crorqbc	49	40	35	3	<8.00	1	<2100	0.0
Holyhead	bbcpPH	irr	bcorbcl	cbcb	51	46	43	3	<8.00	Tr.	<2100	0.6
Liverpool (Bidston) ...	cbc	bccrr	orrq	bbc	49	43	39	Tr.	15.30	0.3	<2100	3.4
Chester (Sealand) ...	cbc	prbc	bcrr	b	50	46	39	0.5	<8.00	0.5	<2100	2.2
Harrogate	cqrrc	cbcb	bbcp	bbcq	48	43	38	3	<8.00	0.1	22.00	0.3
Spurn Head	crrq	crrcbc	bc	bc	49	43	*	4	<8.00	–	–	0.0
Birmingham (Edgbaston)	rcrr	bc	bcpr	bcb	48	41	37	7	<8.00	0.6	<2100	1.8
Cranwell	orrr	crrb		bw	49	43	40	3	<8.00	Tr.	–	0.7
Gorleston	orrq	orrbcq	bcbq	bq	50	44	40	8	<8.00	–	–	0.0
Valentia (Cahirciveen)	crrcr	cb	pr	prh	50	43	39	7	<8.00	2	<2100	0.0
Roches Point	bcir	cirbc	bcc pbc	bc	50	42	*	3	2.00	1	22.00	*
Pembroke (St. Ann's H.)	bcpqc	ciRq	ciRbc	bcphq	51	45	*	1	14.30	1	24.00	0.9
Ross-on-Wye	rdqcbq	bccprqrq	qrcbcq	b	50	43	38	3	<8.00	0.4	<2100	2.7
Leafield	ORR, rc	rbc	cpbc	bcb	48	39	35	7	<8.00	1	<2100	1.7
Winchester (Worthy Dn.)	ORRm,crr	orbccpr	cprbcb	b	50	41	37	23	<8.00	0.1	<2100	0.7
S. Farnborough ...	orrm	orrbcr	bcpb	b	49	42	36	15	<8.00	0.5	<2100	0.5
London (Kew Obsy.) ...	crqcr	crb	bcpb	b	52	44	39	7	<8.00	Tr.	<2100	0.5
Croydon	oRrrm	orrbcqq	bcb	b	49	45	39	17	<8.00	–	–	0.2
Shoeburyness	orrq	crrbc	b	bc	52	45	41	7	<8.00	–	–	0.0
Clacton-on-Sea ...	orr	orrcbc	bcb	bbc	50	47	42	6	<8.00	–	–	0.0
Felixstowe	ORRm	orrrc	b	bc	51	46	43	8	<8.00	–	–	0.0
Lympne	orrq	orrqcpr	crprc	bccorrbc	50	43	40	12	<8.00	1	<2100	0.0
Scilly (St. Mary's) ...	bc	cmpbc	bcp	bc	52	45	*	1	13.30	1	<2100	8.3
Falmouth (Pendennis)	cbcpq	bccpq	bcpq	bcq	54	44	*	Tr.	<8.00	0.1	<2100	4.2
Plymouth (Mt. Batten)	bmrRpqb	bqcPR	cbrbq	cqprb	52	46	43	4	<8.00	0.4	<2100	*2.7
Portland Bill	ORrc	bc	bc	bc	53	49	*	4	<8.00	0.6	<2100	*
Southampton (Calshot)	bRRqRm	bcjpq	crbcorbc	cbcb	52	45	41	14	<8.00	1	<2100	0.4
Dungeness	orrq	orrqcr	bccRqbcq	bcqrcr	53	47	*	8	<8.00	5	<2100	*
Guernsey	ogorc	cqpro	cqphr	oprbc	53	44	45	8	<8.00	7	22.00	1.3



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility.
2	5th 10h	Hibernia	SSW	8	C	50	45	

GENERAL INFERENCE.

A deep depression off North Scotland is moving slowly north and filling up, and an intense secondary off Southwest Ireland is moving quickly eastward. Rain and gales will be renewed in the South, but in the North winds will moderate rapidly and only local showers are expected.

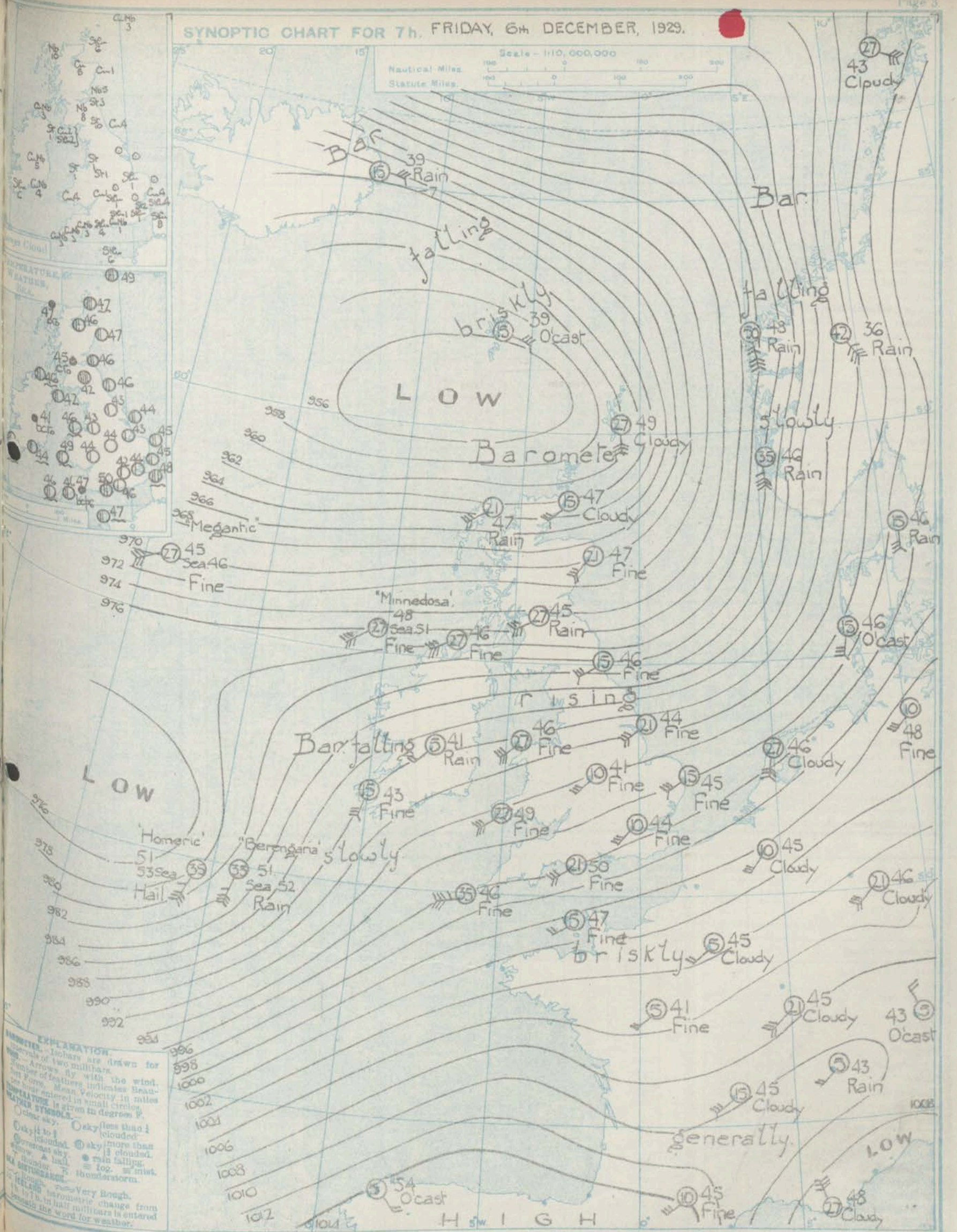
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 6th December, 1929.	Further Outlook.
1. S.E. England 2. E. England	Wind backing south, strong to a gale tonight, veering west to northwest and moderating tomorrow; rain evening and night, heavy at times; mainly fine tomorrow; mild.	Bright intervals but some showers chiefly in western districts.
3. E. Midlands 4. W. Midlands	Wind backing south, becoming strong, perhaps a gale locally during night, veering west to northwest and moderating tomorrow; rain evening and night, heavy in places; fine tomorrow apart from local showers; mild.	
5. S.W. England 6. South Wales 7. North Wales	Wind south, veering to northwest, strong to gale at times, moderating later; heavy rain at first, bright intervals later but showers with local hail and perhaps thunder; mild.	
8. N.W. England 9. N. Midlands 10. N.E. England	Wind becoming variable, mainly light or moderate; changeable, local rain or showers; mild.	
11. S.E. Scotland	Wind west, falling moderate to light; mainly fine but local showers; mild.	South Gale still flying.
12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland	Wind west, moderating; showers and bright intervals; mild.	
15. N.E. Scotland	As 11.	
16. Orkneys and Shetlands	As 12 - 14.	
17. N.W. Ireland 18. N.E. Ireland	As 8 - 10.	
19. S.E. Ireland 20. S.W. Ireland	Wind south, changing to northwest, strong at times, perhaps gale locally; heavy rain at first, bright intervals later but showers with local hail and perhaps thunder; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0945 G.M.T. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.

SYNOPTIC CHART FOR 7h. FRIDAY, 6th DECEMBER, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. FRIDAY 6th DECEMBER 1929. No. 340.

Observations at 1h. G.M.T. 6th

Stations.	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	34	963.6	-8	SSE	7	c	48	85	8	1500	StCu	5	ASt	10
Stornoway	30	953.7	0	WSW	3	c	•	•	6	•	•	•	•	10
Wick	81	955.5	-8	SE	3	bc	48	85	7	1500	Nb	4	ASt	6
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	967.4	+4	W'N	8	c/pr.	48	85	6	4000	CuNb	5	CiSt	8
Renfrew	35	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	965.0	+1	SW	7	b	48	75	8	1500	St	1	ACu	2
Leuchars	39	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	977.3	+6	WSW	5	bc	48	75	7	2500	Cu	3	-	3
Blacksod Point ...	48	977.1	+8	W	9	c	45	75	6	•	CuNb	10	-	10
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	982.2	+2	SW'W	7	c+	48	75	6	1500	St	4	ASt	9
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	982.5	+3	SW	5	bc	46	85	7	5700	StCu	6	-	6
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	256	(985.0)	(+8)	(SW)	(5)		(46)	(85)						
Gorleston	14	988.8	+4	SSW	6	b	47	92	7	-	-	0	-	0
Valentia (Cahirciveen)‡	30	984.5	+4	WSW	7	b	48	97	8	•	St	2	-	2
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	985.9	+6	W	8	bc	50	92	7	1500	CuNb	4	-	4
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	48	•	•	•	•	•	•	•
Croydon	244	990.9	+5	SW	4	b	47	85	7	-	-	0	-	0
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	992.4	+5	SW'S	4	bc/pr.	46	92	8	1500	Nb	4	-	4
Scilly (St. Mary's) ...	163	992.9	+8	WNW	6	bc/pr.	48	65	7	4000	CuNb	5	-	5
Falmouth (Pendennis)	200	992.2	+6	W'S	5	bc+	47	75	7	4000	StCu	3	-	3
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	990.3	+7	WSW	7	bc	51	75	8	1500	StCu	5	-	5
Southampton (Calshot)	19	992.0	+4	W'N	5	c	50	75	7	2500	StCu	10	-	10
Dungeness	30	991.1	+6	SW	7	bc/r	50	92	8	4000	Cu	4	-	4
Guernsey (St. Peter Port)	173	995.8	+6	W	4	o/PH	46	92	5	1500	Nb	10	-	10

Observations at 7h. G.M.T. 6th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Bar. 0-9
Lerwick	959.5	-2	S'E	6	cjp	49	85	8	1500	CuNb	3	ASt	10	•
Stornoway	963.3	+13	WSW	5	or.	47	92	6	2500	Nb	10	-	10	4
Wick	963.9	+8	SW	4	c	47	85	8	1500	StCu	6	ASt	10	6
Tiree	971.5	+11	W	7	bc	48	85	7	1500	CuNb	3	-	3	8
Nairn	966.4	•	SW	4	bc	46	85	8	2500	Cu	5	-	5	•
Aberdeen	971.2	+9	SW'S	5	bc	47	75	8	1500	Cu	1	ACu	4	c
Malin Head	978.0	+8	WSW	6	bcjp	46	85	7	4000	CuNb	3	ACu	4	7
Renfrew	978.2	+9	WSW	6	cr.	45	85	6	2500	Nb	8	-	8	•
Edinburgh (Inchkeith)	979.8	+10	WSW	8	bc	46	75	8	1500	St	3	-	3	4
Leuchars	979.6	+12	SW	7	bc/pr.	47	75	7	1500	Nb	5	ACu	6	•
Eskdalemuir	981.2	+9	SW	6	o	42	85	7	1500	St	10	-	10	•
Tynemouth	981.1	+7	WSW	4	bc	46	85	7	2500	Cu	4	-	4	4
Blacksod Point ...	981.5	+2	WSW	5	bc	44	75	7	-	CuNb	5	-	5	8
Donaghadee	982.8	+9	SW	2	b	42	85	8	4000	Cu	2	-	4	1
Birr Castle	986.9	+3	SW	2	bcs.	41	85	7	2500	CuNb	4	-	4	•
Holyhead	988.2	+5	SW	6	b	46	75	7	1500	St	1	-	1	6
Liverpool (Bidston) ...	988.8	+6	WSW	4	b	43	97	7	1500	St	1	-	1	•
Chester (Sealand) ...	989.9	+6	SSW	3	b	46	65	7	2500	St	1	-	1	•
Harrogate	987.4	+7	SW	6	b	43	75	7	-	-	0	ACu	1	•
Spurn Head	989.0	+5	WSW	5	bc	44	85	7	-	-	0	ASt	3	5
Birmingham (Edgbaston)	993.1	+5	SW	3	b	41	85	8	-	-	0	-	0	•
Cranwell	991.6	+5	SW'S	4	b	43	85	7	5700	StCu	1	-	1	•
Gorleston	994.5	+4	SW'W	4	bc+	45	85	7	-	-	0	CiCu	3	1
Valentia (Cahirciveen)‡	987.9	-2	S'W	4	bc	43	75	8	2500	StCu	6	CiSt	7	7
Roches Point	991.1	+2	W	3	bc	44	85	8	2500	CuNb	4	-	4	6
Pembroke (St. Ann's H.)	991.1	+3	WSW	6	bc	49	97	7	4000	Cu	4	-	4	6
Ross-on-Wye	993.1	+4	SW	3	b	44	75	7	4000	Cu	1	-	1	•
Leafield	994.0	+5	SSW	3	b	39	92	7	2500	StCu	1	-	1	•
Winchester (Worthy Dn.)	994.4	+3	SW'S	2	b	41	85	7	4000	StCu	1	-	1	•
S. Farnborough ...	995.6	+4	SW'W	3	b	42	85	7	4000	StCu	1	-	1	•
London (Kew Obsy.) ...	995.8	+4	SW	3	b	44	85	7	2500	St	2	-	2	•
Croydon	996.5	+5	SW'W	4	b+	45	85	7	4000	StCu	1	Ci	2	•
Shoeburyness	996.1	+6	SW	3	bc+	46	85	7	4000	StCu	4	-	4	4
Clacton-on-Sea ...	995.6	+4	SW	4	bc	47	85	7	4000	Cu	4	-	4	1
Felixstowe	995.7	+6	SW	4	bc+	46	85	7	2500	StCu	3	ACu	6	•
Lympne	997.0	+5	SW	2	c+	44	92	8	4000	StCu	9	-	9	•
Scilly (St. Mary's) ...	996.5	+2	W	7	bc	46	85	8	4000	CuNb	5	-	5	7
Falmouth (Pendennis)	996.8	+2	W'S	5	bc	46	75	8	4000	CuNb	3	-	3	2
Plymouth (Mt. Batten)	996.9	+5	WSW	5	bc/pr.	47	75	7	2500	CuNb	3	-	3	2
Portland Bill	995.5	+6	WSW	5	bc	50	75	8	1500	StCu	4	-	4	4
Southampton (Calshot)	997.0	+5	W	3	b	46	75	8	2500	CuNb	1	-	1	3
Dungeness	996.8	+4	SW	5	c/r	48	97	8	4000	StCu	8	-	8	6
Guernsey (St. Peter Port)	1000.2	+2	WSW	2	bc	47	75	7	2500	StCu	6	-	6	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 5th DECEMBER

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 4th to 9h. 5th °F.	Temperature. Max. 9h. 5th-17h. 5th °F.	Rainfall.† Night 17h.-9h. 4th-5th mm.	Rainfall.† Day 9h.-17h. 5th mm.	Sunshine. Sunrise to Sunset. 5th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cbc	b	44	49	2	-	1.8
Douglas (I. o. M.) ...	co	cp	43	50	14	1	0.8
Llandudno ...	obc	cr	47	52	17	2	2.5
Colwyn Bay ...	cbbc	orbr	46	51	12	4	1.1
Rhyl	rco	cr.	44	52	8	1	3.7
Wallasey	bcb	bbcc	43	51	4	-	3.3
Southport	bcb	bccpo	* 43	49	3	0.3	3.5
Blackpool	cbc	cor	42	49	2	0.2	2.7
Morecambe ...	cbcb	cbr	42	49	3	Trace	2.6
Ilkley	orc	bc	41	49	8	0.3	0.9
Cleethorpes	oro	oc	41	49	5	2	0.0
Mablethorpe ...	opum	bc oq	43	49	3	2	0.0
Skegness	bro	o	45	51	3	1	0.0
Aberystwyth ...	crqbc	cdoqo	44	51	10	Trace	2.5
Bath	orcb	pbc po	48	52	10	2	2.6
Cheltenham ...	orc	bbc	46	52	22	3	2.4
Leamington Spa ...	orbc	bcc	45	49	9	3	1.4
Lowestoft	our	our	46	50	3	8	0.0
Harwich & Dovercourt	ocr	ocroc	47	52	3	4	0.0
Maldon	rr	rc	44	50	5	2	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	ocbcp	cor	48	52	11	3	1.1
Bude	bcipo	bcplt	42	52	12	4	3.2
St. Ives	p	p	45	52	24	2	2.4
Penzance	bcbq	bcprq	49	53	13	0.5	3.2
Paignton	orgor	bcrhbc	45	54	27	3	2.7
Torquay	oqmrbc	RHPbq	47	52	18	1	3.1
Jersey	rc	bc	52	63	3	7	1.3
Weymouth	qrpc	bcpbc	47	52	14	1	1.4
Bournemouth ...	ror	bcc	47	54	17	3	1.1
Ventnor ...	oroc	bc	48	52	3	3	0.1
Portsmouth (S'thsea)	or	oc	49	52	11	5	0.4
Bognor Regis ...	oir	oirbc	48	52	6	8	0.1
Littlehampton ...	crbc	bcp	48	54	8	7	0.2
Worthing	cp	cp	49	52	8	1	0.1
Brighton	rro	ocbcc	49	53	7	2	0.0
Eastbourne	qrrqrr	ocrbc	48	53	7	5	0.0
Hastings‖	oror	orcpo	49	53	4	7	0.0
Folkestone	orrm.	orrc	49	52	3	11	0.0
Dover	orr	oro	49	53	3	13	0.0
Deal	r	rro	49	52	2	14	0.0
Tunbridge Wells ...	or	oroc	47	51	14	8	0.0
Ramsgate	ro	ro	47	52	2	14	0.0
Margate	cr	croc	47	52	4	8	0.0
Southend	orr	orc	47	49	3	4	0.0

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T. from an auxiliary station.

† For code see page 1.

‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ◆ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24852 SATURDAY, 7TH DECEMBER, 1929.

Observations at 18h. G.M.T. 6th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	968.7	+9	SW	4	c|p	48	75	7	1500	Cu Nb	5	A St	9	•
Stornoway	970.4	+6	SW	5	bc	46	75	7	2500	Cu Nb	4	-	4	•
Wick	973.1	+5	SW	3	bc	46	75	8	2500	St Cu	3	-	3	•
Tiree	975.1	0	SSW	6	bc	45	75	7	1500	Cu Nb	3	-	3	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	978.2	+6	SW'S	4	b	47	75	8	2500	Cu	1	A Cu	1	2
Malin Head	977.4	-2	S	5	c	42	85	7	4000	St Cu	3	A St	9	•
Renfrew	981.3	-1	SW'S	4	bc	45	85	7	2500	Cu	7	A Cu	7	2
Edinburgh (Inchkeith)	981.3	+3	SW	5	bc	46	65	8	1500	St	1	A Cu	3	•
Leuchars	980.8	+5	SW	5	bc	45	75	7	1500	St	4	-	4	2
Eskdalemuir	982.7	-2	SSW	6	bc	43	75	7	2500	Cu	6	-	6	2
Tynemouth	985.5	+4	SW	3	bc	47	75	7	2500	Cu	4	-	4	•
Blacksod Point	972.0	-4	S	4	or+	44	75	7	•	Nb	10	-	10	•
Dunsaghaee	980.5	-3	SW	2	bc+	43	85	7	4000	St Cu	6	-	6	•
Birr Castle	975.8	-13	SSE	3	orr	43	85	7	2500	Nb	10	-	10	•
Holyhead	985.6	-8	SSW	6	c|ph	48	75	8	1500	Cu	3	A St	10	1
Liverpool (Bidston)	987.6	-3	SW'S	4	c+	45	75	8	2500	Nb	1	Cu St	9	•
Chester (Sealand)	988.3	-4	S'E	3	c+	47	75	6	2500	St	3	A St	8	2
Harrogate	988.6	+2	~~SW~~ SW'W	3	b	46	75	6	-	-	0	Cu Cu	1	•
Spurn Head	990.8	0	SW	4	bc	47	85	7	-	-	0	A Cu	3	•
Birmingham (Edgbaston)	991.9	-3	S	4	bc+	44	75	6	4000	Nb	3	A St	7	2
Cranwell	992.0	-2	SW'S	4	bc+	47	75	7	-	-	0	Cu Cu	4	1
Gorleston	995.6	-1	WSW	3	b	49	85	6	-	-	0	Cu St	2	•
Valentia (Cahirciveen)	966.9	-29	SE'S	7	crr	47	85	7	1500	Nb	8	A St	10	2
Roches Point	976.6	-13	SW	7	orr	47	92	7	800	Nb	10	-	10	•
Pembroke (St. Ann's H.)	985.6	-10	SSW	7	cr	50	97	6	1500	Nb	4	A St	10	•
Ross-on-Wye	991.1	-5	S	3	c+	46	75	7	2500	Nb	1	A St	9	2
Lossiemouth	992.6	-2	S'W	4	c	45	75	8	-	-	0	Cu St	8	2
Winchester (Worthy Dn.)	995.9	-3	S'W	4	bc	48	65	8	2500	St Cu	1	Ci	7	2
S. Farnborough	995.4	-3	S	3	c|pr	49	75	7	1500	Cu	1	A Cu	8	2
London (Kew Obsy.)	995.9	-3	SSW	4	bc|p	48	75	8	2500	Cu	6	Ci	7	2
Croydon	997.0	-1	SW	4	bc+	50	65	6	2500	Cu	5	-	5	2
Shoeburyness	996.1	0	SW	4	b+	50	85	8	5700	Cu	1	-	1	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	997.2	+1	SSW	5	b	49	75	7	-	-	0	A Cu	2	1
Lympne	998.2	-1	SSW	4	c|pr	47	75	8	2500	St Cu	8	-	8	2
Scilly (St. Mary's)	987.2	-11	S	7	orr	48	92	6	2500	Nb	10	-	10	•
Plymouth (Pendennis)	989.1	-12	SSW	9	crr	49	85	7	2500	Nb	6	A St	10	•
Plymouth (Mt. Batten)	991.8	-9	SW	7	c+	50	85	8	1500	Nb	6	A St	10	2
Portland Bill	993.1	-7	SW'S	6	c+	51	75	8	1500	St Cu	10	-	10	•
Southampton (Calshot)	996.9	-3	SW'S	5	c+	51	65	7	2500	Cu Nb	5	Cu	8	2
Dungeness	999.2	+3	SW	4	bc-	48	85	8	4000	St Cu	3	A St	5	•
Guernsey (St. Peter Port)	998.2	-6	SSW	3	c+	50	75	8	2500	St Cu	10	-	10	•

Observations at 18h. G.M.T. 6th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	974.0	+6	S'W	3	bc	47	75	8	1500	St Cu	4	-	4	•
Stornoway	971.1	0	SW	2	c|pr	41	97	6	1500	Nb	9	-	9	•
Wick	974.9	-1	SW	5	bc	45	85	8	2500	St Cu	3	A St	5	4
Tiree	968.8	-7	S'E	5	or+	42	92	6	2500	Nb	10	-	10	6
Nairn	974.9	•	SW	1	bc	40	85	8	2500	St Cu	5	-	5	•
Aberdeen	978.2	-2	S	4	bc+	45	75	6	1500	St	3	Cu	5	4
Malin Head	964.6	-21	ESE	6	crr	43	92	6	2500	Nb	6	A St	10	6
Renfrew	974.6	-10	ESE	4	orr	44	92	6	1500	St	10	-	10	•
Edinburgh (Inchkeith)	976.9	-4	WSW	4	o	43	85	8	1500	St	10	-	10	1
Leuchars	976.7	-7	S	4	c	44	75	8	4000	St Cu	6	A St	9	•
Eskdalemuir	975.7	-10	SSE	5	orr	39	85	6	1500	Nb	10	-	10	•
Tynemouth	980.7	-6	S	4	o	45	85	7	800	St	10	-	10	4
Blacksod Point	957.8	-14	S	4	c	45	85	7	•	-	0	A St	9	6
Dunsaghaee	966.8	-10	S	3	orr	45	85	7	1500	Nb	10	-	10	2
Birr Castle	960.1	-11	SSE	3	c+	44	85	7	2500	Nb	9	-	9	•
Holyhead	968.5	-23	SSE	8	crr	45	97	5	1500	Nb	8	A St	10	6
Liverpool (Bidston)	973.3	-24	SE	6	or+	43	85	6	1500	Nb	10	-	10	•
Chester (Sealand)	974.3	-19	SSE	7	orr	44	85	6	800	Nb	10	-	10	•
Harrogate	981.0	-6	SE	4	crr	41	85	5	2500	Nb	9	A St	10	•
Spurn Head	983.1	-5	S'W	6	o	46	85	7	4000	Nb	10	-	10	4
Birmingham (Edgbaston)	978.3	-22	SSE	6	or	44	85	8	800	Nb	10	-	10	•
Cranwell	963.5	-13	SE'S	6	cr+	43	92	6	2500	Nb	6	A St	10	•
Gorleston	990.8	-6	SW	7	bc+	46	75	7	2500	Nb	6	-	6	4
Valentia (Cahirciveen)	951.3	-20	S	5	cr	49	92	7	1500	Nb	7	A St	10	6
Roches Point	960.9	-12	SW	7	or	50	85	7	800	Nb	10	-	10	7
Pembroke (St. Ann's H.)	970.0	-9	SSW	7	[illegible]	49	85	6	2500	St Cu	3	A St	9	6
Ross-on-Wye	976.2	-20	S	6	ottr	46	92	5	1500	Nb	10	-	10	•
Lossiemouth	980.2	-7	SSE	7	or	43	92	7	800	Nb	10	-	10	•
Winchester (Worthy Dn.)	984.1	-16	S'E	6	orr	46	92	7	800	Nb	10	-	10	•
S. Farnborough	985.1	-14	S	6	orr	46	85	5	450	Nb	10	-	10	•
London (Kew Obsy.)	987.6	-11	S	5	cr	47	85	7	800	Nb	6	A St	10	•
Croydon	987.9	-13	S	5	orr	46	85	6	450	Nb	10	-	10	•
Shoeburyness	990.6	-8	S	5	c+	48	75	8	5700	St Cu	7	A Cu	9	•
Clacton-on-Sea	991.7	-6	S	7	c	48	85	7	4000	St	8	-	8	6
Felixstowe	991.7	-8	S	7	c	48	75	8	4000	St Cu	8	-	8	6
Lympne	992.0	-9	S	7	or	47	75	7	800	St	10	-	10	•
Scilly (St. Mary's)	974.1	-13	SSW	9	c	51	85	7	4000	Cu Nb	8	-	8	8
Plymouth (Pendennis)	976.8	-13	SW	8	bc|PR	49	75	8	5700	Cu Nb	5	A Cu	(7) 8	8
Plymouth (Mt. Batten)	978.4	-14	SSW	9	oR	47	85	7	800	Nb	10	-	10	7
Portland Bill	978.8	-16	S'E	9	oRR	51	97	6	800	Nb	10	-	10	8
Southampton (Calshot)	983.7	-18	S'E	9	or	47	97	6	800	Nb	10	-	10	6
Dungeness	990.4	-9	SW	7	cr	49	85	8	2500	Nb	8	-	8	6
Guernsey (St. Peter Port)	986.0	-22	SSW	8	oR	52	85	5	1500	Nb	10	-	10	8

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. Yesterday.	Sunshine to Sunset. hrs. To-day.	Humidity. 18h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
Kew	18	bbccp	bcpq	prptlR	49	47	43	0.2	9	4.1	*	*		8
Croydon	244	bcz	bccrr	pTLRhq	50	46	41	2	16	4.5	*	*		7
Greenwich (Royal Obsy.)	249	b	bcprrrtlHp		50	44	36	0.3	13	3.9	7.4	66		
Sky (Bunhill Row)	89	•	•	•	•	•	•	•	•	2.4	•	•		•
Westminster (St. James' Pk.)	27	•	•	•	51	45	42	10		3.9	7.1	69		•
Regent's Pk. (Botanic Gdns.)	158	•	•	•	•	•	•	•	•	3.8	•	•		•
Garden Square	110	b	bcor	•	49	46	•	0.3	10	•	7.2			•
Kensington Palace	80	bbc	bcpc	•	50	46	41	0.3	12	•	7.1			•
Hampstead Observatory	450	•	•	•	49	38	37	4	7	4.0	8.3			•

Sunshine yesterday: (At 18h.) 8.1

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 1

South Kensington Max.	Time.	Min.	Time.
1.0	6h 10m	<0.3	6h 23m to 6h 7m

Kew Observatory Max.	Time.	Min.	Time.
0.1	6h 14m	<0.1	0-7h. 7h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 6h 17m.0s.m. to 7h 6m.45s.m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	1.30	11
δ Ursae Minoris	13.45	1.21	10

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

FOR DECEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.51	11.44	15.37
	7.53	11.45	15.37
Greenwich	7.53	11.51	15.50
	7.54	11.52	15.50
Wick	9.48	12.4	15.19
	9.50	12.8	15.18
Valentia	8.36	12.32	16.29
	8.37	12.33	16.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog. „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. ro = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

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

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

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	5½ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

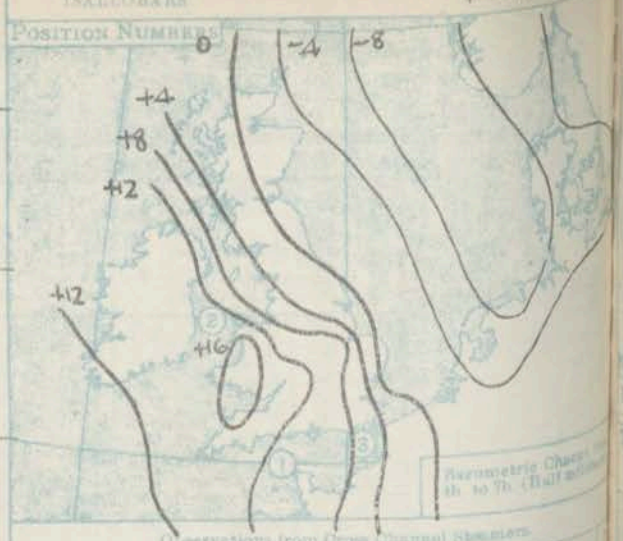
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. G.M.T.	Weather. 18h.-18h. G.M.T.	Weather. 18h. G.M.T. to 1h. T	Weather. 1h.-7h. T	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm.	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Night. 18h.-7h. began.	Sun G.M.T. Hours.
Lerwick	cir.q	cbc	bcpr	bccoir.q	49	43	.	2	<8.00	5	24.00	0.0
Stornoway	c	p	c	p	47	40	.	2	13.30	2	2.30	2.2
Wick	b-bc	b-bc	bcorr	orr	48	43	.	-	-	3	24.00	.
Tiree	bc,phq,bc	c	rr	rr	48	40	39	1	9.00	13	<21.00	1.7
Nairn	q bcpr	bc	bccd	c	46	38	.	0.6	18.00	0.2	<21.00	3.9
Aberdeen	bcq b	bbc	bcorrq	orrcr.	48	42	39	-	-	8	<21.00	4.0
Kalin Head	bcp.c	crrm.m.	crrr.cr.bc	bccPR	47	40	.	5	<8.00	11	<21.00	0.9
Renfrew	bccp bcq	bccrm.	rr.rq	cbcc	45	39	35	1	18.00	0.6	<21.00	2.0
Edinburgh (Inchkeith)	bcir.	bccir.o	or.r.cbc	cir.orr	47	40?	37	1r	18.00	3	<21.00	4.3
Leuchars	bc Rq	bcq cjpc	corr.c,rrc	cbccr.c	47	40	30	0.1	11.00	5	<21.00	2.5
Eskdalemuir	cbc	cpHrcor	orrm.	orrmcir	43	36	35	3	13.30	11	<21.00	0.1
Tynemouth	bcq	bcpq	oirq	bccq	47	43	40	-	-	4	<21.00	.
Blacksod Point ...	cr	rc	crr	pc	47	40	.	5	.	11	.	.
Donaghadee	bbc	bcorr	bcorr	orrir	46	44	.	5	15.30	18	<21.00	.
Birr Castle	bcr.corr	orrq.cbc	oir.	oir.	46	41	39	6	18.00	3	<21.00	0.0
Holyhead	b bc c	pr.r.rq	rrq	r.cm	49	45	43	4	12.30	6	<21.00	1.4
Liverpool (Bidston) ...	b bc c	cp.qr	cpr.c	crqr	46	42	40	0.1	15.30	7	<21.00	2.8
Chester (Scaland) ...	bz.bcc	cr.r	orrm.c	crr	49	43	40	1	15.30	8	<21.00	3.0
Harrogate	b	bbccrr	corr	coqrr	46	41	38	0.3	16.30	6	<21.00	2.5
Spurn Head	bc	bcco	orrcq	crq	47	44	.	-	-	3	<21.00	4.8
Birmingham (Edgbaston)	bbc	bcor	orrbcoir	oir	45	41	40	1	15.30	10	<21.00	3.0
Cranwell	b	bccr.	crm.c	cr	48	43	41	0.1	17.30	5	<21.00	3.9
Gorleston	bcb	bbcq	orrq	oirr.q	49	45	43	-	-	2	<21.00	~~0.0~~ 4.5
Valentia (Cahirciveen)	cir.crr	crqtlcirr	ir.ir	rcbcy	49	40	37	16	9.00	5	<21.00	0.2
Roches Point	bcorr	or oir	orrc	cpqbc	51	41	.	4	9.00	5	<21.00	.
Pembroke (St. Ann's H.)	cPq	crrhrtq	oRrq	crrq	50	43	.	9	11.00	8	<21.00	0.0
Ross-on-Wye	bcpbc c	corq R	RqltqrR	rQcilto	47	43	40	8	9.00	13	<21.00	0.6
Leafield	bbc	cr.rrq	orRlbcrq	bccr.Rq	45	~~44~~ 43	41	~~0.7~~ 1	15.30	7	<21.00	3.5
Winchester (Worthy Dn.)	bbc	bcpr.orm	orlbccrq	crq	49	43	42	4	14.30	11	<21.00	3.7
S. Farnborough ...	b cp.	corr	orrRR	oirc	50	43	39	1	16.30	27	<21.00	4.5
London (Kew Obsy.) ...	bbc cp.	bcp.q	oRqbcq	oRqtloRq	49	47	43	0.2	12.30	9	<21.00	4.1
Croydon	bbz.cz.	bccz.rr	oTlkhRq	otlrqcr.	50	46	41	2	12.30	16	<21.00	4.5
Shoeburyness	bcb	bcc	crr	ctl	51	46	42	-	-	3	<21.00	4.8
Clacton-on-Sea ...	bc	bcc	copqr	oqprlc	49	47	43	-	-	3	<21.00	4.1
Felixstowe	bcb	bcc	cor	orrc	49	45	43	-	-	5	<21.00	6.0
Lympne	cbc cpr	cpr.coq	orqr.TLRq	bfRotlrq	47	45	38	0.5	11.00	12	<21.00	1.7
Scilly (St. Mary's) ...	bcorr	orrc	corrl	orbcp	51	42	.	12	<8.00	8	<21.00	0.0
Falmouth (Pendennis)	bcp.crq	coRlcRq	bcrq	cRbq	52	47	.	10	<8.00	6	<21.00	0.6
Plymouth (Mt. Batten)	bq cpr.	coqRTLHq	oqRHtl,b	orrqb	52	45	45	9	<8.00	4	<21.00	0.7
Portland Bill	bcph.c	cc.RRZ	cIPIc	cIPc	52	48	.	7	9.00	15	<21.00	.
Southampton (Calshot)	bbcpr	cc.rTm	orrtlRHLq	ciRl	51	45	42	3	11.00	11	<21.00	2.9
Dungeness	ccqh bc	bccr.q	ccc.crhq	bclcqRq	50	43	.	3	<8.00	6	<21.00	.
Guernsey	bcca	oprgr	ophqc	crcor	52	47	47	3	14.30	6	<21.00	2.3

† For code see page 1

7th December



Observations from Cross Channel Steamers.

Position.	Date and Time	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	6th 18h	Hibernia	SSW	6	c	48	51

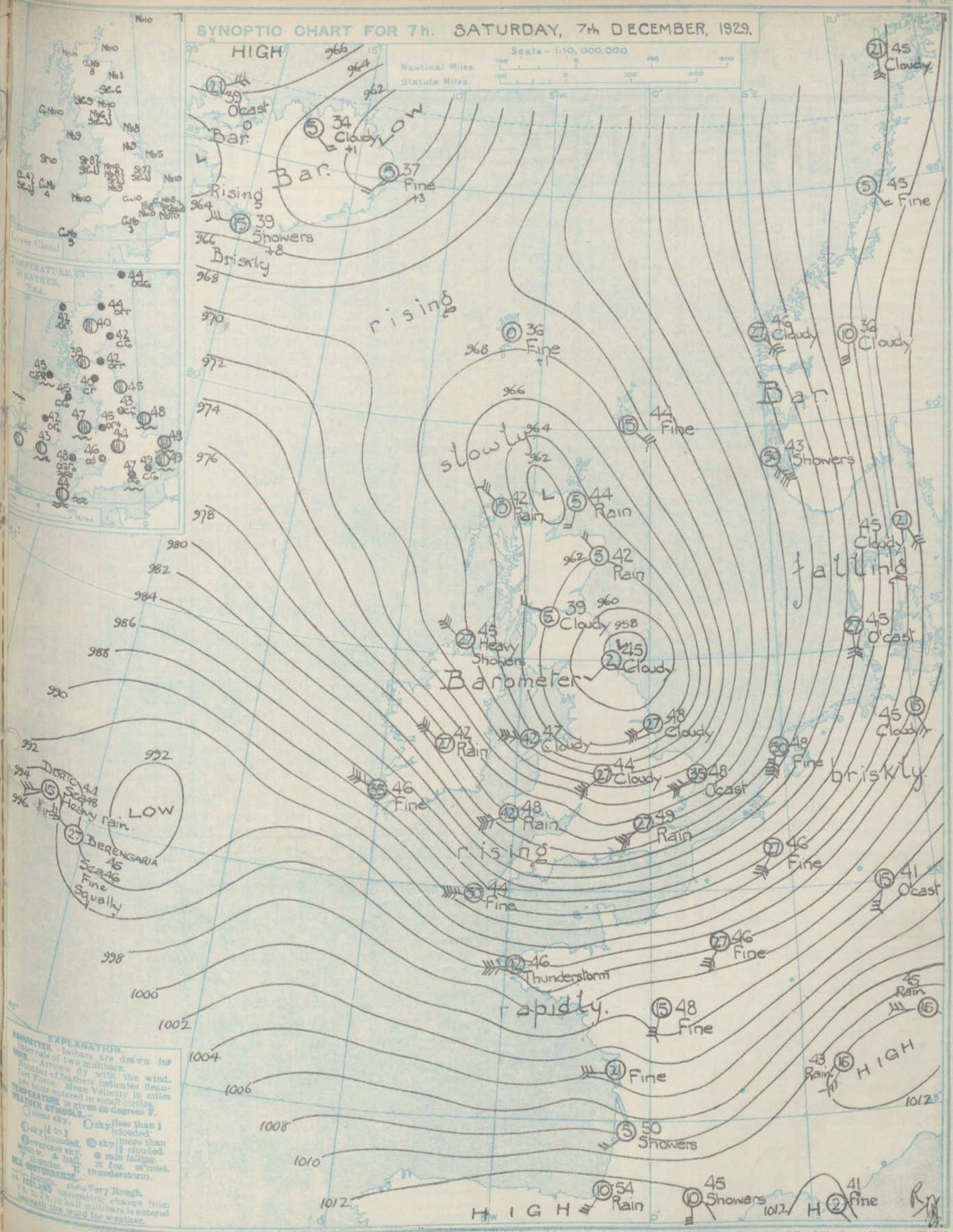
GENERAL INFERENCE.

A very deep depression, with centres over Northern Scotland and Northeast England, will move away up the Norwegian Coast and fill up, while further disturbances are approaching from the Atlantic. Weather will continue very unsettled.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 7th December, 1929.	Further Outlook.
1. S.E. England ↓ 2. E. England ↓ 3. E. Midlands 4. W. Midlands	Wind west, strong to gale, moderating and backing; perhaps further gales later; mainly fine today, some rain tomorrow; rather mild.	Continuing very unsettled.
5. S.W. England ↓ 6. South Wales ↓ 7. North Wales ↓	Wind between west and south, a gale at times; rain at times with local hail and thunder; brighter intervals; rather mild.	
8. N.W. England ↓ 9. N. Midlands 10. N.E. England ↓	Wind west, strong to gale, moderating and backing; showers and bright intervals, probably more general rain tomorrow; moderate temperature.	
11. S.E. Scotland ↓ 12. S.W. Scotland & Isle of Man ↓ 13. (A W. Scotland (R N.W. Scotland 14. Mid-Scotland	Wind northwest, fresh or strong, backing later; showers and bright intervals; perhaps rain tomorrow; moderate temperature.	↓ South Cone still flying.
15. N.E. Scotland 16. Orkneys and Shetlands	Wind variable, light, finally west, fresh; rain, then showers and bright intervals; moderate temperature.	
17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	As 5 - 7.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1020 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. SATURDAY 7TH DECEMBER 1929. No. 341.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 7th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 7th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain 0-9
Lerwick	54	973.7	-2	S'E	3	bc/p	45	75	8	1500	CuNb	3	Ast	6	968.1	-7	SE	4	orr.	44	92	7	1500	Nb	10	-	10	•
Stornoway	80	967.4	-4	SE	1	c	•	•	6	•	•	•	•	10	964.7	+1	NW	4	or	42	92	6	1500	Nb	10	-	10	3
Wick	81	968.8	-6	SSE	7	orr	44	92	7	1500	Nb	10	-	10	963.1	-4	SSW	2	orr	44	97	7	1500	Nb	10	-	10	4
Tiree	33	•	•	•	•	•	•	•	•	•	•	•	•	•	965.3	+4	N	6	cr.r.	45	85	6	1500	Nb	5	Ast	10	6
Nairn	53	•	•	•	•	•	•	•	•	•	•	•	•	•	962.2	•	W	1	c	40	92	7	1500	CuNb	8	-	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	961.1	-1	NW	2	cr.	42	97	7	1500	Nb	3	Ast	8	4
Malin Head	81	959.3	0	-	0	bc	43	92	7	4000	StCu	3	-	3	968.4	+13	NW'W	6	c/PR	46	92	7	2500	CuNb	10	-	10	6
Renfrew	80	•	•	•	•	•	•	•	•	•	•	•	•	•	963.7	+3	WNW	2	c+	39	92	8	4000	StCu	9	-	9	•
Edinburgh (Inchkeith)	199	962.4	-15	ESE	2	bc	43	85	8	2500	St	2	ACu	3	960.8	-2	ESE	2	orr	42	92	7	4000	Nb	10	-	10	0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	960.6	-3	NW	1	c	42	97	6	1500	StCu	6	Ast	8	•
Eskdalemuir	794	•	-1	•	•	•	•	•	•	•	•	•	•	•	960.4	+2	N	3	cr	40	86	7	1500	Nb	8	-	8	•
Tynemouth	67	963.8	-19	S	3	bc/r	45	92	7	1500	Cu	6	-	6	958.0	-2	SW	1	c	45	92	6	1500	Nb	8	-	8	2
Blacksod Point ...	18	964.2	+2	WNW	8	ORR	45	85	6	•	Nb	10	-	10	981.7	+5	WNW	7	c	44	55	7	•	CuNb	9	-	9	7
Donaghadee	45	•	•	•	•	•	•	•	•	•	•	•	•	•	964.9	+8	W	4	cr.	45	85	7	1500	Nb	9	-	9	3
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	976.5	+16	NW	6	or.	42	85	7	2500	St	10	-	10	6
Holyhead	30	954.1	-8	S	4	cr.	49	92	6	2500	Nb	9	-	9	966.5	+17	W'N	8	c	47	85	7	1500	St	9	-	9	•
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	961.7	+8	W	8	or+	45	92	6	1500	Nb	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	964.5	+11	WSW	4	orr	46	86	7	800	Nb	10	-	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	960.8	0	SW	6	crr.	43	92	7	2500	Nb	9	-	9	•
Spurn Head	30	965.5	-12	SSW	8	c	47	86	7	2500	Nb	6	Ast	9	960.0	-2	WSW	6	c	48	86	7	4000	Nb	5	Ast	10	6
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	968.5	+12	SW	6	c	44	75	8	1500	Nb	9	-	9	•
Cranwell	250	967.0	-11	S'W	7	c	45	85	7	4000	StCu	2	Ast	9	964.9	+10	SW'W	7	c	47	85	7	1500	St	9	-	9	6
Gorleston	14	976.3	-5	SW'S	7	orr.	45	97	6	1500	Nb	10	-	10	970.8	+2	SW'W	7	o/r	48	86	6	2500	Nb	10	-	10	-
Valentia (Cahirciveen)‡	30	971.9	+22	NW	7	ORR	46	97	7	•	St	10	-	10	987.7	+11	WNW	7	bc	46	56	8	2500	Cu	6	-	6	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	983.4	+12	N'W	7	bc	43	92	7	1500	CuNb	4	-	4	8
Pembroke (St. Ann's H.)	150	965.2	+4	WSW	11	crr.	48	97	6	800	CuNb	10	-	10	975.1	+16	WSW	8	orr.	48	92	6	800	Nb	10	-	10	•
Ross-on-Wye	295	•	•	•	•	•	•	•	•	•	•	•	•	•	972.5	+13	W	7	od.	46	75	7	2500	Nb	10	-	10	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•	971.6	+8	WSW	7	c	44	86	8	4000	Cu	10	-	10	•
Winchester (Worthy Da.)	372	•	•	•	•	•	•	•	•	•	•	•	•	•	977.4	+8	WSW	6	cr.	47	75	8	800	St	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	976.7	+8	WSW	6	or.	47	75	7	450	Nb	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	47	•	•	•	•	•	•	•	975.7	+8	SW'W	6	cr.*	49	75	8	1500	Nb	8	CiSt	9	•
Croydon	244	976.7	-6	SW	6	CTLR	47	85	6	800	CuNb	10	-	10	976.9	+5	WSW	7	c/r	48	75	7	800	Nb	8	-	8	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	976.4	+1	SW'W	8	bctl	50	75	7	800	StCu	7	-	7	6
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	973.5	-4	SW	7	c	49	85	7	4000	CuNb	8	-	8	6
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	974.8	+3	SW	6	c	50	85	7	800	St	9	-	9	•
Lympne	350	979.5	-11	SSW	8	b/r	51	75	8	2500	CuNb	2	-	2	978.2	+3	SW	8	orr.	45	92	7	800	Nb	10	-	10	8
Scilly (St. Mary's) ...	163	972.2	+5	W	12	orr.	49	85	6	2500	Nb	10	-	10	986.8	+14	WNW	9	bc	44	92	7	4000	CuNb	5	-	5	6
Falmouth (Pendennis)	290	970.0	+3	WSW	11	c	50	75	7	4000	StCu	10	-	10	985.4	+16	W	8	bc	47	75	8	4000	CuNb	4	-	4	7
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	984.0	+14	W	8	c/PR-	49	65	7	2500	CuNb	9	-	9	8
Portland Bill	52	971.6	-12	SW	10	c/PR	51	97	7	1500	Nb	8	-	8	978.1	+15	WSW	10	c/PR-	51	97	7	1500	Nb	8	-	8	6
Southampton (Calshot)	10	976.6	-9	SW	9	c	51	85	7	1500	St	9	-	9	980.0	+9	W	7	bc/p	48	75	7	1500	CuNb	3	Ci	4	8
Dungeness	20	977.9	-7	SSW	8	bc/h	53	85	7	2500	StCu	4	-	4	977.6	+4	SW	10	cR	49	92	7	2500	CuNb	10	-	10	8
Guernsey (St. Peter Port)	173	1000.4	+10	W	5	c/pho	50	65	6	2500	St	8	-	8	988.6	+8	W	6	or	49	75	6	2500	Nb	10	-	10	8

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Friday, 6th Dec.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-5th to 9h.-6th	Temperature. Max. 9h.-17h. 6th	Rainfall.† Night 17h.-9h. 5th-6th	Rainfall.† Day 9h.-17h. 6th	Sunshine. Sunrise to Sunset. 6th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bbc	c	45	46	0.3	-	4.0
Douglas (I. o. M.) ...	bc	orr	44	48	-	3	1.1
Llandudno ...	bbcc	pcr or	45	49	1	1	2.1
Colwyn Bay ...	bbcr	crorc	45	48	2	1	1.8
Rhyl	r.bc	cr.	43	48	1	1	2.4
Wallasey	bbcc	cor.	42	49	0.3	0.3	2.4
Southport	bbcc	copo	45	49	0.4	0.3	2.7
Blackpool	cbc	cor	46	49	1	1	2.2
Morecambe ...	cbc	cbcr	46	49	0.2	0.2	2.7
Ilkley	bc	cpo	41	46	0.6	0.4	1.6
Cleethorpes	b	bc	42	48	-	-	4.3
Mablethorpe ...	bm.	bcom.	40	47	-	-	4.5
Skegness	ocbw	bc	42	47	Trace	-	4.2
Aberystwyth ...	cr/bc	corpo	46	47	1	1	1.2
Bath ...	bbcc	cr	42	49	6	2	2.5
Cheltenham‡ ...	bcb	or	42	48	1	3	2.6
Leamington Spa ...	bbc	bccor	39	49	Trace	0.1	3.5
Lowestoft	b	bbcc	43	49	-	-	5.2
Harwich & Dovercourt	rb	bc	43	49	1	-	5.0
Maldon	b	bc	41	50	-	-	4.9

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcop	or	46	49	5	6	0.3
Bude	pbc'c	cptl	43	52	1	5	0.5
St. Ives	orr	orr	45	52	0.3	18	0.0
Penzance	crco	rcq	45	53	1	6	0.3
Paignton	bwbccor	orrhp	44	50	1	10	1.7
Torquay	pbbcorp	oRrpt	44	51	1	6	1.7
Jersey	rbcc	cr	44	52	4	1	2.7
Weymouth	bcb	cp cpq	46	53	1	3	2.1
Bournemouth ...	b	or or	43	50	2	1	2.3
Ventnor ...	orbc	dcuor	46	51	1	1	2.5
Portsmouth (S'thsea)	bcb	cor	45	51	-	1	3.0
Bognor Regis ...	bc	crorr	45	51	5	1	2.8
Littlehampton ...	bc	bcpcr	45	50	2	0.3	2.4
Worthing	bccp	cr	47	52	1	1	2.0
Brighton	bbc	bccoh	46	51	1	Trace	0.3
Eastbourne‡	bcph	pccpcc	44	51	4	6	
Hastings‡	phcbc	cpho	45	49	7	3	1.0
Folkestone	bcir	o/rcq	46	50	4	1	2.0
Dover	cpbc	bcpc	47	50	3	1	2.0
Deal	cbc	bcopo	45	50	12	1	3.1
Tunbridge Wells ...	bcop	ococ	42	49	0.3	Trace	3.9
Ramsgate	bc	bc	45	50	0.1	-	2.8
Margate	bc	pbc	44	50	-	Trace	3.1
Southend	b	bcc	44	51	Trace	-	4.4

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T. from an auxiliary station.

† For code see page 1.

‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. & 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24853 Sunday 8th December 1929. Page 1.

Observations at 18h. G.M.T. 7m

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of Ground.
Lerwick	965.2	-2	SE	3	c/p	47	85	7	1500	CuNb	5	ASt	8	•
Stornoway	963.7	+4	NNW	3	od	44	85	6	1500	Nb	10	-	10	•
Wick	964.5	+2	SW	1	bc	42	97	7	1500	CuNb	4	ACu	7	•
Tiree	975.7	+9	NW	7	c/r	46	75	6	2500	Nb	8	ASt	10	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	965.0	+4	WNW	4	bc⊕	43	85	8	1500	Cu	2	CiSt	7	2
Malin Head	980.1	+10	W'N	7	bc/p	45	75	7	2500	CuNb	6	-	6	•
Renfrew	974.2	+12	W	5	c/r+	42	85	7	2500	Nb	7	ASt	10	2
Edinburgh (Inchkeith)	967.9	+4	WSW	6	o.r.	43	85	7	1500	Nb	10	-	10	•
Leuchars	968.1	+9	W	4	c.r.	42	85	8	1500	St	9	ASt	10	2
Eskdalemuir	972.9	+14	WNW	6	c.r.	40	85	8	1500	Nb	5	ASt	10	2
Tynemouth	970.0	+15	W	5	bc/p	46	85	6	2500	CuNb	5	Ci	6	•
Blacksod Point	987.5	+7	WNW	7	bc	44	65	8	•	CuNb	7	-	7	•
Donaghadee	980.1	+10	WNW	4	c/r	43	75	7	1500	Nb	9	-	9	•
Birr Castle	980.2	+8	WNW	4	bc+	42	65	8	2500	CuNb	3	CiCu	4	•
Holyhead	986.0	+17	W'N	3	c/r	46	75	6	1500	St	4	ASt	8	2
Liverpool (Bidston)	984	+18	WNW	9	o/r	44	75	6	1500	Nb	10	-	10	•
Chester (Sealand)	982	+18	W	7	o/r	44	85	6	1500	Nb	10	-	10	2
Harrogate	975.8	+2	W	6	c/r	43	85	7	4000	Nb	9	-	9	•
Spurn Head	974.2	+1	WNW	8	c	46	85	7	4000	StCu	7	ASt	10	•
Birmingham (Edgbaston)	985.7	+21	W	6	o	43	75	8	1500	Nb	10	-	10	2
Cranwell	979.9	+19	W'S	7	c.r.	44	85	8	1500	StCu	10	-	10	2
Gorleston	979.4	+6	WSW	7	c	48	85	7	2500	Nb	8	-	8	•
Valentia (Cahirciveen)	995.2	+5	WSW	5	bc	45	65	8	2500	Cu	3	-	3	2
Roches Point	996.7	+9	NW	5	bc	46	85	8	2500	CuNb	4	CiCu	6	•
Pembroke (St. Ann's H.)	990.9	+13	W	8	bc/p	47	85	7	2500	Cu	6	-	6	•
Ross-on-Wye	989.4	+16	W	6	c	46	55	8	4000	Cu	7	CiSt	8	2
Leafield	987.4	+15	W'N	8	c	43	65	9	2500	Cu	4	S	5	2
Winchester (Worthy Dn.)	992.2	+16	W	6	c	47	65	8	1500	StCu	4	ASt	10	2
S. Farnborough	990.3	+15	W	6	c	47	65	8	800	St	4	ASt	10	2
London (Kew Obsy.)	989.2	+15	W	6	c	48	65	8	2500	Cu	3	ASt	10	2
Croydon	990.1	+14	WNW	7	c	48	65	7	1500	StCu	5	CiSt	9	2
Shoeburyness	986.6	+9	SW'W	8	c.r.	48	75	7	1500	StCu	9	-	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	984.8	+12	WSW	7	c	49	65	7	2500	St	10	-	10	1
Lympne	988.4	+10	WSW	7	c	47	75	8	1500	CiSt	7	CiSt	9	2
Scilly (St. Mary's)	993.2	+12	W'N	8	bc	47	75	7	4000	Cu	4	CiCu	6	•
Falmouth (Pendennis)	998.9	+13	WNW	7	bc+	50	55	7	4000	CuNb	6	-	6	•
Plymouth (Mt. Batten)	997.4	+11	WNW	8	b/p	49	65	8	2500	CuNb	1	Ci	2	2
Portland Bill	994.1	+15	W	8	c	50	65	7	2500	Cu	8	-	8	•
Southampton (Calshot)	993.9	+14	W'N	6	c/p.	49	65	7	1500	CuNb	6	ASt	8	2
Dungeness	988.7	+10	WSW	10	bc+	49	75	8	2500	Cu	6	CiCu	7	•
Guernsey (St. Peter Port)	992.0													

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	965.8	0	E	1	o.r.	45	92	7	1500	Nb	10	-	10	•
Stornoway	975.7	+7	NW	4	c/PR	41	92	6	2500	CuNb	9	-	9	3
Wick	969.9	+6	WNW	4	or	43	92	7	1500	Nb	10	-	10	4
Tiree	982.0	+8	W'N	7	bc/p.	43	75	7	1500	CuNb	4	-	4	7
Nairn	975.1	•	W	3	c	41	85	8	1500	CuNb	8	-	8	•
Aberdeen	973.6	+6	W	5	c-	43	75	8	4000	StCu	3	ASt	8	4
Malin Head	986.1	+6	W	6	bc/PR	42	75	7	2500	CuNb	4	-	4	7
Renfrew	984.3	+12	W	5	b/r	41	85	7	2500	Cu	1	Ci	2	•
Edinburgh (Inchkeith)	979.3	+12	WSW	7	c	43	75	8	1500	St	9	-	9	4
Leuchars	977.6	+12	W	6	c	42	75	8	4000	StCu	4	ASt	9	•
Eskdalemuir	984.8	+12	W'S	6	bc/p.	38	75	7	1500	Nb	7	-	7	•
Tynemouth	982.1	+15	W	6	bc	43	75	6	2500	StCu	4	-	4	2
Blacksod Point	988.5	+1	SSE	3	bc	44	55	8	•	Cu	5	-	5	7
Donaghadee	988.2	+9	W	4	b	37	75	7	-	-	0	-	0	3
Birr Castle	993.1	+3	SW	2	bc	39	75	8	4000	StCu	3	-	3	•
Holyhead	994.2	+8	WSW	7	bc-	45	65	7	2500	Cu	7	-	7	7
Liverpool (Bidston)	991.9	+9	W'N	6	c+	44	65	7	2500	Nb	9	-	9	•
Chester (Sealand)	993.1	+8	WSW	4	bc	44	55	7	1500	StCu	4	-	4	•
Harrogate	988.1	+9	W	5	bc	41	75	7	4000	~~AcCu~~	~~7~~	-	~~7~~	•
Spurn Head	987.3	+15	W'N	7	bc-	43	85	7	4000	StCu	4	Ci	5	5
Birmingham (Edgbaston)	996.5	+12	WSW	4	b-	41	55	8	-	-	0	-	0	•
Cranwell	992.6	+13	WSW	6	b-	41	75	8	-	-	0	-	0	•
Gorleston	993.1	+13	SW'W	5	bc	45	75	7	-	-	0	CiCu	3	4
Valentia (Cahirciveen)	999.9	-7	S	4	o.r.	43	75	8	2500	St	10	-	10	4
Roches Point	997.1	+3	SW	4	c	43	85	8	1500	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	996.8	+5	WSW	7	bc	47	92	8	2500	Cu	3	ASt	6	7
Ross-on-Wye	998.9	+9	W'S	3	b-	42	65	8	-	-	0	CiSt	1	•
Leafield	998.5	+9	WSW	4	b	40	55	8	-	-	0	CiSt	1	•
Winchester (Worthy Dn.)	1001.8	+10	WSW	4	b	43	55	8	2500	StCu	1	ASt	2	•
S. Farnborough	1000.3	+12	W	5	b	42	65	8	2500	StCu	1	-	1	•
London (Kew Obsy.)	1000.1	+12	SW'W	4	b	44	85	8	-	-	0	-	0	•
Croydon	1000.0	+10	W'S	4	b	44	65	7	-	-	0	Ci	1	•
Shoeburyness	998.5	+11	WSW	5	b	45	65	8	-	-	0	-	0	•
Clacton-on-Sea	997.0	+10	WSW	5	b	45	65	7	4000	Cu	2	-	2	4
Felixstowe	996.9	+13	SW'W	5	b	45	55	8	-	-	0	-	0	6
Lympne	1000.4	+9	WSW	4	bc	43	55	7	-	-	0	CiSt	3	•
Scilly (St. Mary's)	1002.9	+2	W	6	c	46	85	8	4000	StCu	9	-	9	7
Falmouth (Pendennis)	1005.3	+5	WSW	5	bc/p.	45	75	7	4000	CuNb	5	ASt	7	4
Plymouth (Mt. Batten)	1003.8	+4	WSW	5	b/p	47	92	8	2500	CuNb	1	-	1	4
Portland Bill	1001.4	+9	WSW	7	b	49	75	8	2500	St	1	-	1	7
Southampton (Calshot)	1002.0	+9	W	4	bc	46	55	7	1500	CuNb	5	-	5	3
Dungeness	1000.8	+12	WSW	7	bc-	47	65	8	2500	Cu	3	-	3	7
Guernsey (St. Peter Port)	1007.2	+8	W	3	bc	48-48	75	6	2500	CuNb	6	-	6	6

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 18h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Pilot balloon
Kew	18	cq	cqbcb	b-cerq	50	42	38	0.3	5	0.1	*	*	6
Croydon	244	cq	cbyq	bcerq	49	42	38	0.1	8	0.2	*	*	5
Greenwich (Royal Obsy.)	146	c	cq by	bcr.PR	48	42	33	Tr	7	0.3	54	87	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	97	*	*	*	52	43	39	7		0.2	56	82	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*		*	*	*
Camden Square	116	c	cb	*	48	43	*	-	8	*	*	92	*
Kensington Palace	80	0c	ob	*	52	43	36	-	8	*	(At 18h.) 89	93	*
Hampstead Observatory	450	*	*	*						0.0	*		*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 8m

South Kensington

Max.	Time.	Min.	Time.
0.6	17h-20h 7m	0.3	4h-7h 8m

Kew Observatory

Max.	Time.	Min.	Time.
0.1	22h 7h	<0.1	0-7h 8h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 7m 17h. 0m. to 8m 7h. 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	5.7	37
δ Ursae Minoris	14.0	4.10	30

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

Sun., 8th. December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.53	11.45	15.37
	7.54	11.45	15.37
Greenwich	7.54	11.52	15.50
	7.55	11.52	15.49
Wick	8.50	12.4	15.18
	8.51	12.5	15.18
Valentia	8.37	12.33	16.28
	8.38	12.33	16.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t tornado.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
x 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.
R = heavy rain. r. = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ⊖ = lunar halo.

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

A "selective" divides actual existing weather from preceding conditions, thus: ⊕/r = fair weather after rain; - = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	220 "
1. Thick fog.	550 "
2. Fog.	1,100 "
3. Moderate fog.	1½ miles.
4. Mist or haze.	2½ "
5. Poor visibility.	4½ "
6. Moderate.	12½ "
7. Good.	31 "
8. Very good.	9. Excellent visibility, beyond 31 m

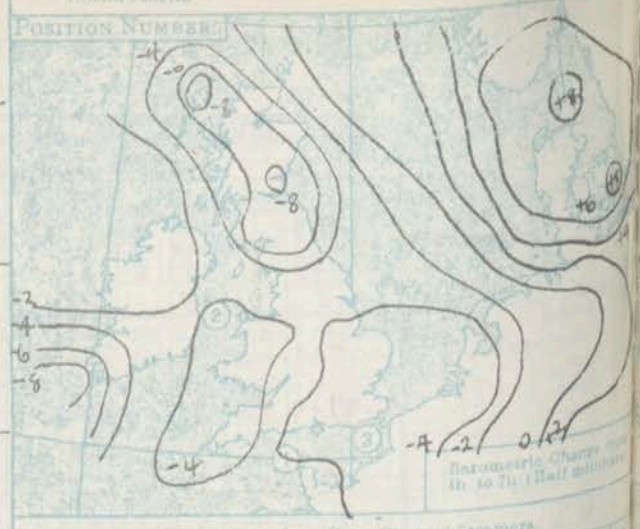
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. ...7m...	Weather. 18h.-18h. ...7m...	Weather. 18h.7m. to 1h.8m.	Weather. 1h.-7h. ...8m...	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 7m..... Hours.
Lerwick	cir.	or.r.	or.r.cbc	bc	46	42	•	3	<8.00	2	<21.00	0.0
Stornoway	p	p	bprb	bcpr.	44	35	•	10	<8.00	0.2	24.00	0.0
Wick	orrbc	bcoir	oirbc	c	45	35	•	5	<8.00	2	<21.00	•
Tiree	ir	c,pr	pr,b	c,rRpr.	46	35	30	4	<8.00	4	<21.00	0.0
Nairn	orr	cprq	cqbc	qbc	41	32	•	4	<8.00	-	-	0.0
Aberdeen	r.cbc	c	cb	bcir.	44	35	27	Tr.	<8.00	Tr	05.30	0.6
Malin Head	cbcphr	bcPHR	bcphr.bbc	cr.bc	46	35	•	4	<8.00	2	<21.00	0.2
Renfrew	cbcrq	cirq	bqcp.b	bccr.	43	33	30	2	9.00	0.2	<21.00	0.0
Edinburgh (Inchkeith)	orrcrr.	oir.c	cbcb	bbcc	45	37	32	1	<8.00	-	-	0.5
Leuchars	bccr.r.	cr.ovq	cqbcb	bbcc	44	32	26	06	11.00	-	-	1.3
Eskdalemuir	circ	cir.bcprs	bcprsbc	bc cir	41	30	25	2	<8.00	1	<21.00	0.0
Tynemouth	coir.	bcq	bcbq	bc o	46.	[illegible]	33	02	9.00	-	-	•
Blacksod Point ...	pcq	cq.bc	prr.	prbcl	46	48	•	0.5	•	13	•	•
Donaghadee	cir	ir.bc	b	bbc	45	34	•	1	<8.00	-	-	•
Birr Castle	orcbc	bc	bcb	bxorrbc	44	37	28	1	<8.00	4	04.30	2.7
Holyhead	r.r.ir.	cwcl	bcr.D	DDcKQ.H	48	41	40	1	<8.00	3	22.00	0.0
Liverpool (Bidston) ...	Rrr.	prWbb	cp.bc	cbcl	45	40	35	7	<8.00	Tr	<21.00	0.0
Chester (Sealand) ...	orrw.	or.bcprl	pr.hcr	r.c	48	39	32	Tr.	<8.00	0.6	<21.00	0.5
Harrogate	cqir	cqir	cpp	cbpc	45	36	31	1	<8.00	1	<21.00	0.4
Spurn Head	corrq	cqbc	bc	bccprc	48	38	•	7	9.00	2	02.30	0.3
Birmingham (Edgbaston)	cbcpr.	cbcb	bbcor	orRr	44	38	35	Tr.	9.00	11	24.00	0.8
Cranwell	cirr.	cr.b	b-cr.	crc	47	38	35	0.3	11.00	2	24.00	0.6
Gorleston	oir.cq	cbcq	bbccq	coroq	50	41	38	0.4	<8.00	0.3	02.30	0.0
Valentia (Cahirciveen)	bcyp	bccir.	cir.	cir	47	41	39	Tr.	11.00	3	<21.00	3.2
Roches Point	bc	bcc	corrc	c	46	42	•	-	-	5	22.00	•
Pembroke (St. Ann's H.)	cprq	bcpq	orrcq	clprq	48	46	•	8	9.00	10	22.00	1.5
Ross-on-Wye	cir.c	cqbcq	bccp.orr	roRhr	46	41	37	0.4	<8.00	19	<21.00	0.5
Leafield	cp.qv	cqbcb	bbcc	oRRq	45	38	33	0.1	<8.00	19	24.00	0.0
Winchester (Worthy Dn.)	crcpr	cpc.bcy	bbc.R	orrRm.	48	41	38	1	9.00	19	24.00	0.6
S. Farnborough ...	or.bcoro	cby	bor	orr	47	41	35	0.1	<8.00	11	24.00	0.7
London (Kew Obsy.) ...	cq	cqbcb	b	crrq	50	42	38	0.3	<8.00	5	01.30	0.1
Croydon	cq	c, byq	bccm.r.	cr.m.	49	42	38	0.1	<8.00	8	24.00	0.2
Shoeburyness	cq.r.	bq	bcqcr	cqir.	51	41	38	Tr.	12.30	0.2	03.30	2.6
Clacton-on-Sea ...	cbc	bcb	bbc	bccpc	50	43	39	-	-	1	04.30	0.5
Felixstowe	cr.	cbcb	bybc	bccr.	50	43	39	Tr.	<8.00	0.4	24.00	0.4
Lympne	or.cq	cqbc	bccprbc	crorrq	48	43	35	1	<8.00	4	22.00	0.4
Scilly (St. Mary's) ...	bcp	bcb	corrc	cirl	49	46	•	2	9.00	8	<21.00	0.0
Falmouth (Pendennis)	bcpq	bcpq	oRq	oRq	50	[illegible]	45	1	<8.00	11	<21.00	4.2
Plymouth (Mt. Batten)	cqprb	bcq,pr	bqorrm.	orrm.q	50	47	44	0.1	<8.00	11	22.00	3.2
Portland Bill	ip.c	cbc	bc.r,RRz.	oRRz.	50	47	•	1	<8.00	15	<21.00	•
Southampton (Calshot)	cq	bcqyy	bclycoqrm	orrqm.	50	44	41	1	<8.00	8	<21.00	1.5
Dungeness	cqrbcqr	bcq	bcqcqRc	cqcqrr	54	45	•	0.5	<8.00	2	<21.00	•
Guernsey	cphrq	[illegible]	c,o,pr	cpr,q,RR	51	49	47	0.3	<8.00	2	1.30	0.6

8th December



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.
2	7th 10h	Hibernia	WNW	9	C	45	52

GENERAL INFERENCE.

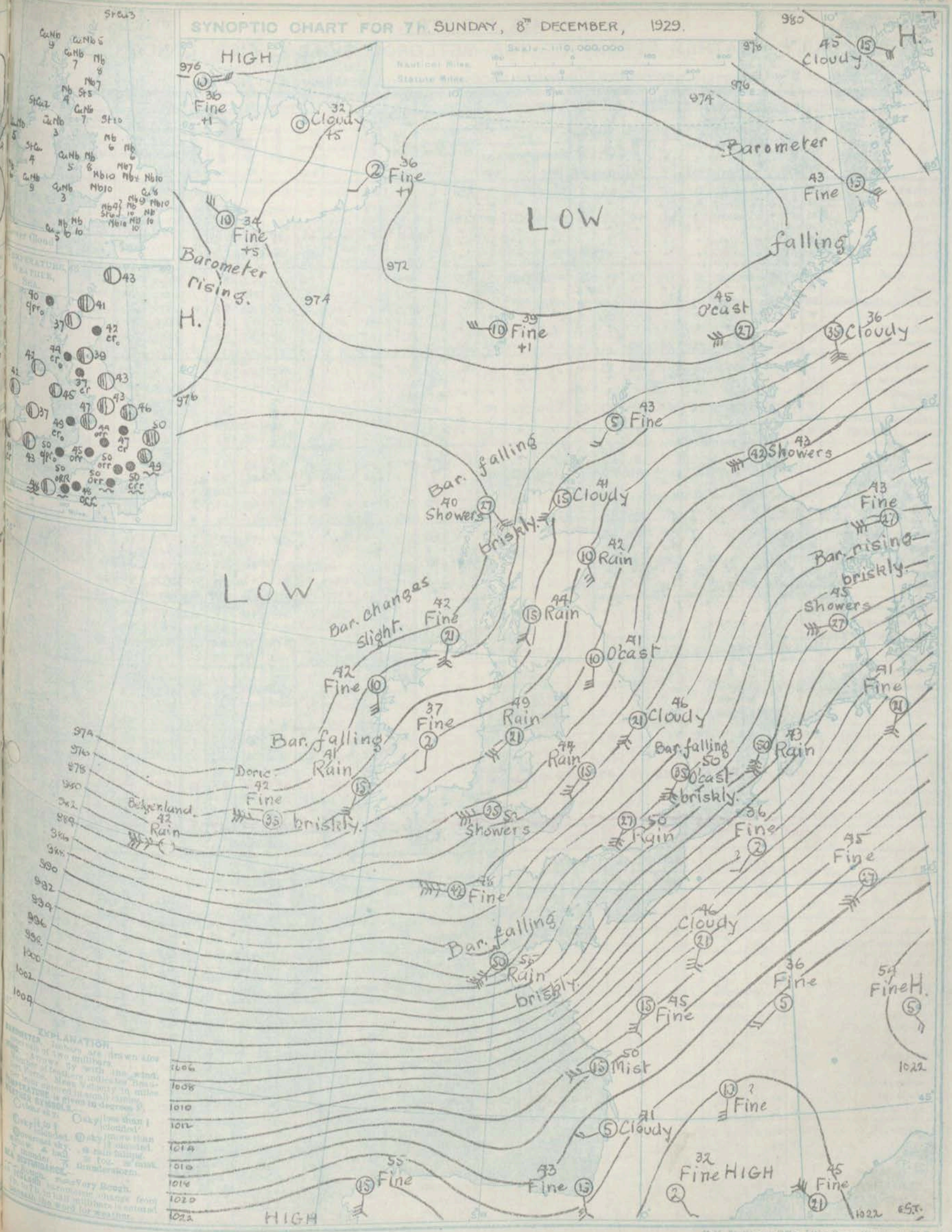
A complex low pressure system covers the whole of the N. Atlantic, and one depression off West Ireland is drifting east. Weather will be generally unsettled with further gales over the southern half of the British Isles.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 8th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind southwest, strong to a gale locally at times; showers of rain or hail and possibly local thunder at first, more general rain later; mild, becoming somewhat cooler.	
5. S.W. England 6. South Wales	Wind between southwest and west, a gale at times; showery with local hail and thunder at first; then more general rain; moderate temperature.	Continuing unsettled.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind south to southwest, moderate to strong at times; variable skies; showers with local hail and thunder; brighter intervals. Moderate temperature.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind mainly southerly, moderate; bright periods; local rain or showers; moderate temperature.	South Cone still flying.
17. N.W. Ireland 18. N.E. Ireland	Wind southwest, fresh at times; showery, with local hail and possibly thunder; temperature falling.	
19. S.E. Ireland 20. S.W. Ireland	Wind westerly, fresh, increasing to gale locally; general rain early, then squally showers but bright periods; temperature falling.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 11.30 G.M.T. — C. C. Kimpson, D.Sc., D.Eng., F.R.S.

† For code see page 1

Trace = rain has fallen, but amount too small


SYNOPTIC CHART FOR 7h. SUNDAY, 8th DECEMBER, 1929.
HIGH
LOW
LOW
HIGH
HIGH
Barometer falling
Barometer rising.
Bar. falling briskly.
Bar. changes slight.
Bar. rising briskly.
Bar. falling briskly.
Bar. falling briskly.
Doric
Belgenland.
Fine
Cloudy
Showers
Rain
Mist
O'cast
Fine HIGH
Fine H.
EXPLANATION

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday 8th December 1929. No. 342.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 8th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-1
Lerwick	54	972.3	+6	W'S	3	bc	45	85	8	1500	StCu	3	A St	5	•
Stornoway	30	981.0	+2	WNW	9	b-	•	•	8	•	•	•	•	2	5
Wick	81	979.2	+7	WNW	3	bc	40	85	8	2500	StCu	5	CiSt	7	1
Tiree	23	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	979.9	-10	SSE	5	cjp	38	85	7	4000	CuNb	1	A St	10	4
Renfrew	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	986.4	+7	WSW	4	b	39	65	8	1500	St	2	–	2	1
Leuchars	95	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	990.2	+2	S	2	b	39	75	6	–	–	0	–	0	2
Blacksod Point ...	18	976.7	-10	SSE	5	ORR	41	85	6	•	Nb	10	–	10	5
Donaghadee	45	•	•	•	•	•	•	•	•	•	•	•	•	•	2
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	987.8	-11	SE'S	5	ODD	42	97	5	800	Nb	10	–	10	4
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	994.1	0	SW	5	bc+	40	92	7	4000	StCu	7	–	7	4
Birmingham (Edgbaston)	536	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	256	996.3	-3	SSW	4	cr₀	41	85	7	1500	Nb	10	–	10	•
Gorleston	14	1001.5	0	SSW	4	c	41	92	6	–	–	0	A St	10	4
Valentia (Cahirciveen)‡	30	982.1	-3	SW	7	oR	50	92	7	•	St	10	–	10	•
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Pembroke (St. Ann's H.)	150	987.3	-11	SW	6	c/r	50	97	6	–	–	0	A St	10	7
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	287	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	15	•	•	•	•	•	47	•	•	•	•	•	•	•	•
Croydon	344	1001.2	-5	SSW	5	cr₀	46	75	6	1500	Nb	9	A St	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Felixstowe	13	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Lympne	350	1003.0	-2	SSW	6	bc	46	85	7	1500	St	6	–	6	•
Scilly (St. Mary's) ...	163	993.1	-4	WSW	9	c	48	92	7	4000	StCu	9	–	9	8
Falmouth (Pendennis)	200	994.0	-9	SW'W	9	oRR	50	97	65	2500	Nb	10	–	10	6
Plymouth (Mt. Batten)	22	•	•	•	•	•	•	•	•	•	•	•	•	•	7
Portland Bill	32	986.2	-10	SSW	9	oRR	51	97	6	800	Nb	10	–	10	5
Southampton (Calshot)	10	1000.3	-8	SW'S	8	orr	44	85	6	1500	Nb	10	–	10	6
Dungeness	20	1003.2	-4	SW	7	c/r	49	85	8	2500	Cu	8	–	8	7
Guernsey (St. Peter Port)	173	1004.2	-8	SW	6	oR	51	85	6	2500	Nb	10	–	10	8

Stations.	Observations at 7h. G.M.T. 8th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-1
Lerwick	976.3	+4	SW	2	bc	43	85	8	1500	StCu	3	A St	5	•
Stornoway	973.0	-8	SE	6	c/pr₀	40	85	6	4000	CuNb	9	–	9	5
Wick	979.0	-3	SW	4	c	41	75	8	1500	CuNb	5	A St	8	1
Tiree	971.8	-5	SW'S	6	cjp	42	92	6	2500	Nb	9	–	9	6
Nairn	976.2	•	WSW	2	bc	37	85	8	1500	CuNb	7	–	7	•
Aberdeen	980.4	-6	SSE	3	cr₀	42	85	6	1500	Nb	8	A St	10	4
Malin Head	974.4	-1	S	5	b	42	85	7	4000	StCu	2	–	2	4
Renfrew	977.9	-5	SSW	4	cr₀	44	92	7	2500	Nb	4	A St	9	•
Edinburgh (Inchkeith)	979.9	-7	ESE	3	c	39	85	8	1500	St	5	A St	10	1
Leuchars	979.3	-8	E	3	c	40	85	7	2500	St	7	A St	10	•
Eskdalemuir	979.8	-7	SSW	2	cr	37	92	7	1500	Nb	6	A St	10	•
Tynemouth	982.2	-6	S	5	o	41	92	7	1500	St	10	–	10	2
Blacksod Point	976.3	0	S'E	5	bc	47	65	7	•	CuNb	5	–	5	5
Donaghadee	977.1	-3	SW	2	bc+	45	75	7	4000	CuNb	3	–	3	2
Birr Castle	979.3	-2	S	1	bc	37	97	7	4000	StCu	4	–	4	•
Holyhead	982.4	-4	SW'W	5	cr₀	49	85	7	1500	CuNb	5	A St	10	4
Liverpool (Bidston)	982.9	-3	SSW	5	c	47	75	7	2500	Nb	8	A St	10	•
Chester (Sealand)	983.7	-5	SSE	4	c+	44	85	7	2500	StCu	5	A St	8	•
Harrogate	985.5	-5	S	2	c	43	92	7	4000	Nb	6	Ci St	9	•
Spurn Head	986.2	-1	SW'S	5	c	46	92	7	2500	Nb	6	A St	9	4
Birmingham (Edgbaston)	987.5	-2	SW	4	orr	44	92	7	1500	Nb	10	–	10	•
Cranwell	987.7	-5	SSW	5	cr+	47	92	7	1500	Nb	7	A St	10	•
Gorleston	992.7	-8	SSW	7	o	50	85	6	2500	Nb	10	–	10	4
Valentia (Cahirciveen)‡	979.0	-8	SSW	4	cr	41	85	7	2500	Nb	6	A St	10	–
Roches Point	983.1	-3	W	3	c	43	92	7	1500	CuNb	9	–	9	6
Pembroke (St. Ann's H.)	984.5	-4	WSW	7	c/pr₀	50	85	8	1500	CuNb	3	A St	10	7
Ross-on-Wye	988.3	-4	SW	3	orr	45	92	6	1500	Nb	10	–	10	•
Leafield	988.6	-3	SSW	6	or	48	92	6	1500	Nb	10	–	10	•
Winchester (Worthy Dn.)	993.5	-5	SW	6	ok-	48	97	6	450	St	10	–	10	•
S. Farnborough	991.4	-7	S	7	orr	50	92	6	450	Nb	10	–	10	•
London (Kew Obsy.)	991.4	-7	SSW	6	crr	50	92	7	1500	Nb	9	–	9	•
Croydon	994.4	-7	SW'S	6	orr	49	92	6	800	Nb	10	–	10	•
Shoeburyness	993.7	-3	S'W	7	cr₀	50	97	7	800	Nb	8	A St	10	•
Clacton-on-Sea	994.7	-8	SW	7	c	49	85	7	4000	Cu	8	–	8	6
Felixstowe	993.7	-4	SW'S	7	c	50	97	7	1500	St	7	A St	9	6
Lympne	997.6	-4	SSW	8	orr	49	92	6	800	Nb	10	–	10	•
Scilly (St. Mary's)	987.8	-4	W	8	bc	48	85	7	4000	Cu	5	–	5	8
Falmouth (Pendennis)	990.0	-4	SW'W	8	oRR	50	85	6	2500	Nb	10	–	10	6
Plymouth (Mt. Batten)	990.7	-4	SW	8	orr	48	97	6	800	Nb	10	–	10	7
Portland Bill	991.8	-5	SSW	9	oRR	51	97	6	800	Nb	10	–	10	5
Southampton (Calshot)	994.1	-6	SW'W	7	orr	50	85	6	800	Nb	10	–	10	6
Dungeness	997.1	-4	SSW	8	orr	51	92	7	1500	Nb	10	–	10	7
Guernsey (St. Peter Port)	999.0	-4	SW	5	oRR	52	97	5	1500	Nb	10	–	10	8

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 7th December.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 6th to 9h. 7th.	Temperature. Max. 9h. 7th.	Rainfall.† Night 17h.-9h. 6th-7th.	Rainfall.† Day 9h.-17h. 7th.	Sunshine. Sunrise to Sunset. 7th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	r₀c	c	41	44	7	0.3	0.3
Douglas (I. o. M.) ...	op	c	43	44	25	1	0.0
Llandudno ...	rc	cpc	44	46	15	2	0.0
Colwyn Bay ...	r₀r₀	r₀c	43	45	19	3	0.0
Rhyl	orq	cpbc	43		13	5	0.0
Wallasey	oRR	oRbcp	44	46	15	2	0.0
Southport	rr	rih	43	47	11	3	0.0
Blackpool	orq	orqc	43	46	15	1	0.0
Morecambe ...							
Ilkley	or	oro	40	44	12	10	0.0
Cleethorpes	oR₀	o	41	46	5	8	0.0
Mablethorpe ...	cbvq	cvq	41	47	3	1	0.0
Skegness	oco	ro	43	47	2	1	0.0
Aberystwyth ...	oor₀	cbcoo	41	47	17	–	0.4
Bath	cf₀	cbc	44	48	13	trace	0.7
Cheltenham ...	cb	bc	39	49	20	–	0.1
Leamington Spa ...	oc	c	40	47	6	–	0.0
Lowestoft	cdc	cibc	44	45	3	trace	0.9
Harwich & Dovercourt	r₀c	ocbc	44	51	3	–	0.0
Maldon	frtlc	c	45	49	3	–	0.5
Ilfracombe	oc	cofh	44	50	12	1	0.2
Bude	bic	bcprh	35	52	5	1	2.1
St. Ives	opcbc	cbcco	43	51	6	–	12
Penzance	qbc	cocpr	44	50	8	0.3	3.4
Paignton	cRq	pbcqbcp	44	50	14	0.3	3.0
Torquay	Rqp	cpqbq	44	51	17	0.3	3.5
Jersey	rqdpq	bc	40	52	10	1	1.2
Weymouth	r₀o	cbcb	44	51	8	0.2	1.7
Bournemouth ...	oc	cb	45	50	11	–	3.5
Ventnor ...	orlc	obcc	40	50	8	1	2.8
Portsmouth (S'thsea)	oc	cb	45	50	15	–	2.6
Bognor Regis ...	rbcbc	cbcb	44	50	7	0.3	1.7
Littlehampton ...	cbbc	bc	38	50	10	0.1	1.4
Worthing	crc	c	47	51	13	0.3	1.7
Brighton	opcc	cbc	43	50	14	0.5	0.0
Eastbourne	bcc	crcbcb	47	54	6	0.2	0.0
Hastings‡	ocpc	cbcb	46	54	7	0.1	0.0
Folkestone	bcc	c	44	50	11	–	0.6
Dover	bcbc	bccb	44	51	14	–	0.3
Deal	oc	oco	43	50	13	–	0.5
Tunbridge Wells ...	oco	ocbc	46	48	13	–	0.0
Ramsgate	cbcb	bcco	46	52	12	–	1.9
Margate	bc	cbc	45	51	8	–	3.1
Southend	cr₀	cr₀o	45	50	2	trace	0.0

* Information not usually received. ‡ The observations at 1h. G.M.T. from an auxiliary station. ‡ For code see page i. ‡ See footnote page i.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24854 Monday, 9th December, 1929.

Observations at 15h. G.M.T. 8th

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	976.8	+2	SSE	2	c|p	45	75	7	1500	CuNb	4	Ast	10	•
Stornoway	971.0	+1	SSW	3	c⁻	39	85	6	2500	Nb	9	-	9	•
Wick	974.8	-5	SW	4	bc	44	85	8	1500	CuNb	4	ACu	7	•
Tiree	973.9	+1	WSW	5	c|r	41	75	8	2500	CuNb	6	CiCu	8	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	974.8	-5	S	3	bc⁻	45	85	6	1500	~~Cu~~	2	ACu	3	2
Malin Head	975.3	0	S	4	c⁺	40	92	7	2500	~~Nb~~	5	Ast	8	•
Renfrew	977.5	-1	S	1	c	41	85	6	2500	St	3	Ast	9	2
Edinburgh (Inchkeith)	976.3	-3	SW	3	c	44	75	7	1500	St	5	Ast	10	•
Leuchars	975.9	-3	SW	2	c	43	85	7	1500	Nb	4	Ast	9	2
Eskdalemuir	976.0	-6	SW	2	c|r	41	85	7	1500	Nb	6	Ast	10	2
Tynemouth	978.0	-5	SSE	2	c	46	85	6	1500	Nb	9	-	9	•
Blacksod Point	976.4	0	W	4	bc	43	75	8	•	CuNb	6	-	6	•
Donaghadee	975.8	-3	S	1	c	40	85	7	4000	StCu	8	-	8	•
Birr Castle	977.1	-1	S	1	bc	39	92	8	4000	StCu	4	-	4	•
Holyhead	979.0	-3	SW	5	c	44	75	8	1500	StCu	8	-	8	2
Liverpool (Bidston)	979.3	-3	W	5	c|r	40	92	7	2500	Nb	8	-	8	•
Chester (Sealand)	980.0	-2	SW'S	4	cb$_0$	44	75	8	800	Nb	8	-	8	2
Harrogate	979.6	-2	S	3	c|r	43	85	7	2500	Nb	8	Ast	10	•
Spurn Head	981.1	-8	SW	6	c	46	85	7	4000	Nb	7	CiSt	9	•
Birmingham (Edgbaston)	983.8	-4	SW	5	c	44	75	8	2500	CuNb	8	-	8	2
Cranwell	982.4	-6	SSW	5	c	47	85	8	1500	Nb	9	-	9	2
Gorleston	987.5	-4	SW'S	6	0	49	92	6	2500	Nb	10	-	10	•
Valentia (Cahirciveen)	982.9	+11	W'N	7	ch(r)	45	75	7	1500	Nb	9	Ast	10	2
Roches Point	980.9	-2	W	5	bc	43	92	8	1500	CuNb	5	-	5	•
Pembroke (St. Ann's H.)	979.8	-3	SW	8	c|PR	46	97	7	1500	CuNb	9	-	9	•
Ross-on-Wye	985.5	-1	SW	4	c|p	41	75	7	2500	CuNb	8	CiSt	9	2
Leafield	985.6	-6	SW	6	bc	45	75	9	2500	Cu	4	-	4	2
Winchester (Worthy Dn.)	990.6	-2	WSW	7	bc|p	49	65	8	2500	CuNb	3	-	3	2
S. Farnborough	989.1	-3	WSW	6	c|pr	49	65	8	1500	CuNb	7	ACu	8	2
London (Kew Obsy.)	988.7	-4	SW	6	c⁺	51	65	7	1500	Nb	7	ACu	9	2
Croydon	990.6	-3	WSW	7	cR	51	75	5	450	Nb	10	-	10	2
Shoeburyness	989.8	-2	SSW	6	c|r	50	92	8	1500	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	989.8	-7	SSW	6	c|r	50	85	7	1500	StCu	8	Ast	10	2
Lympne	992.2	-4	SW'S	7	c|r	46	92	6	450	Nb	10	-	10	2
Scilly (St. Mary's)	988.4	-1	W'S	10	c|PR	49	75	6	2500	CuNb	8	-	8	•
Falmouth (Pendennis)	990.2	+2	WSW	9	bc|PR	49	75	7	4000	CuNb	4	ACu	6	•
Plymouth (Mt. Batten)	989.9	-1	SW	9	bc|PH	43	97	7	1500	CuNb	7	-	7	2
Portland Bill	989.7	-2	SSW	9	c|PR	50	92	6	1500	Nb	8	Ast	9	•
Southampton (Calshot)	991.3	-2	WSW	7	bc|pr	50	65	8	1500	CuNb	5	-	5	2
Dungeness	992.6	-4	SSW	6	c|r	47	97	6	1500	Nb	10	-	10	•
Guernsey (St. Peter Port)	997.8	+2	WSW	6	c	51	65	6	2500	Stcu	8	-	8	•

Observations at 15h. G.M.T. 8th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	973.4	-4	S	2	bc|p	45	85	8	1500	CuNb	3	Ast	6	•
Stornoway	973.0	+3	SSW	3	b⁻	38	85	7	4000	Cu	2	-	2	1
Wick	974.6	0	WNW	3	bc	36	85	8	1500	Nb	4	-	4	1
Tiree	976.3	+3	W	6	b|ph$_0$	41	92	8	2500	CuNb	7	-	7	6
Nairn	•	•	W	1	bc	33	85	8	1500	St	3	Ast	6	•
Aberdeen	975.3	-1	WNW	3	c	38	85	6	-	-	0	Ast	10	1
Malin Head	979.3	+6	SW	3	bc|pr	40	75	7	4000	CuNb	3	ACu	4	2
Renfrew	979.7	+4	W	3	c	38	85	7	4000	StCu	8	-	8	•
Edinburgh (Inchkeith)	976.6	+1	SW	3	c	40	75	7	1500	St	10	-	10	1
Leuchars	976.1	+1	WNW	3	c	39	85	7	2500	StCu	8	Ast	10	•
Eskdalemuir	978.4	+5	WSW	3	c	36	92	6	1500	St	10	-	10	•
Tynemouth	977.2	+1	W	4	bc|r	40	75	7	2500	Cu	3	-	3	2
Blacksod Point	983.3	+3	WNW	7	c	42	75	7	•	CuNb	9	-	9	7
Donaghadee	980.9	+7	W	2	bc⁻	38	85	7	4000	CuNb	4	-	4	1
Birr Castle	990.3	+17	SW	3	cr$_0$	39	92	7	2500	CuNb	9	-	9	•
Holyhead	985.8	+12	W'N	8	c⁺	44	75	8	2500	Cu	8	-	8	7
Liverpool (Bidston)	981.5	+5	W	6	bc|FH	42	85	7	2500	Nb	7	-	7	•
Chester (Sealand)	983.0	+6	WSW	4	bcr$_0$	42	85	7	1500	CuNb	5	-	5	•
Harrogate	979.8	+1	SW'S	5	bcr	38	85	7	2500	Nb	4	-	4	•
Spurn Head	980.4	0	WSW	5	bc	41	85	7	4000	StCu	6	-	6	4
Birmingham (Edgbaston)	985.7	+3	WSW	4	b⁺	39	85	6	2500	Nb	2	-	2	•
Cranwell	983.9	+2	SW	5	bc|r	39	97	6	1500	StCu	7	-	7	•
Gorleston	987.0	0	SSW	6	bc⁺	46	65	6	1500	Nb	6	-	6	4
Valentia (Cahirciveen)	987.7	+5	W'N	6	c|ph$_0$	42	75	7	2500	St	8	Ast	10	8
Roches Point	986.6	+17	W	6	bc	44	85	8	1500	CuNb	6	-	6	7
Pembroke (St. Ann's H.)	987.7	+7	W	8	c|PR	45	97	7	1500	CuNb	9	-	9	7
Ross-on-Wye	988.3	+6	W	5	c⁺	43	65	8	2500	Nb	7	CiSt	9	•
Leafield	987.9	+4	WSW	6	bc	41	75	8	2500	CuNb	3	-	3	•
Winchester (Worthy Dn.)	993.4	+6	W'S	6	c|PR	45	75	8	1500	CuNb	8	-	8	•
S. Farnborough	991.0	+2	WSW	7	c|PR	44	75	8	1500	CuNb	(9)	-	(9)	•
London (Kew Obsy.)	989.7	0	WSW	7	bcr	46	65	7	1500	Nb	7	-	7	•
Croydon	991.6	+2	W	9	cr$_0$r$_0$	46	75	6	1500	Nb	9	-	9	•
Shoeburyness	989.3	-1	SSW	7	bc|r	48	85	8	1500	Cu	3	-	3	•
Clacton-on-Sea	988.8	+3	SW	7	bc	46	75	7	4000	CuNb	5	-	5	6
Felixstowe	989.3	-1	SW	6	bc	47	75	8	4000	StCu	4	-	4	6
Lympne	992.6	0	SW	7	c⁺r	43	75	7	1500	CuNb	8	CiSt	9	•
Scilly (St. Mary's)	1000.9	+12	WNW	10	bc|PR	47	75	6	4000	CuNb	6	-	6	8
Falmouth (Pendennis)	1001.3	+9	W	8	bc|ph$_0$	46	85	7	4000	CuNb	5	-	5	6
Plymouth (Mt. Batten)	998.8	+14	WSW	8	bc|PH	48	75	7	1500	CuNb	7	-	7	7
Portland Bill	993.4	+5	WSW	9	c|PR	50	85	6	1500	Nb	8	Ast	9	8
Southampton (Calshot)	993.6	+5	W	8	c|p	49	45	6	1500	CuNb	8	-	8	7
Dungeness	991.6	-2	WSW	9	cr|r	47	92	7	2500	CuNb	8	-	8	7
Guernsey (St. Peter Port)	1004.0	+8	W	6	bc|p	49	85	6	1500	Stcu	6	-	6	8

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon. (24 hours ended 9h.)	Weather. Night. (24 hours ended 9h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 21h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	c|pq	c|bq	c|pb$_0$	52	39	34	6	0.6	0.7	*	*	
Croydon	244	c|pr	c|bq	c|bq	52	38	35	9	4	0.5	*	*	6
Greenwich (Royal Obsy.)	149	c r c	c|bq	c|bqr	52	39	32	3	2	0.6	68	92	4
City (Bunhill Row)	20	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	40	33	4		0.7	74	92	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.9	*	*	*
Camden Square	110	c r c	c	*	51	39	*	1	3	*	(At 18h.) 83	95	*
Kensington Palace	80	c r c b	c r	*	52	39	31	1	3	*	*	97	*
Hampstead Observatory	460	*	*	*	50	35	29	3	3	0.6			

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0.6	11h. 8m	0.3	22h. 8m to 7h. 9m

Kew Observatory

Max.	Time.	Min.	Time.
0.1	8-17h 5h	0.1	Rest of Period

POLE STAR RECORD at Greenwich Obsy.

Exposure from 8th 17h. 0m. to 9th 7h. 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	8.48	63
δ Ursae Minoris	14.0	7.19	52

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.54	11.45	15.37
	7.55	11.46	15.36
Greenwich	7.55	11.52	15.49
	7.56	11.53	15.49
Wick	8.51	12.5	15.18
	8.53	12.5	15.17
Valentia	8.38	12.33	16.28
	8.40	12.34	16.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). / before (for precipitation).
⊕ = colar halo. ☿ = lunar halo.

With present weather is combined, wherever possible, the general character of the weather.
△ "solidus" divides actual existing weather from preceding conditions; thus:—bc/r = fair weather after rain; ↘ = has decreased; ↗ = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=phenomenon sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
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.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

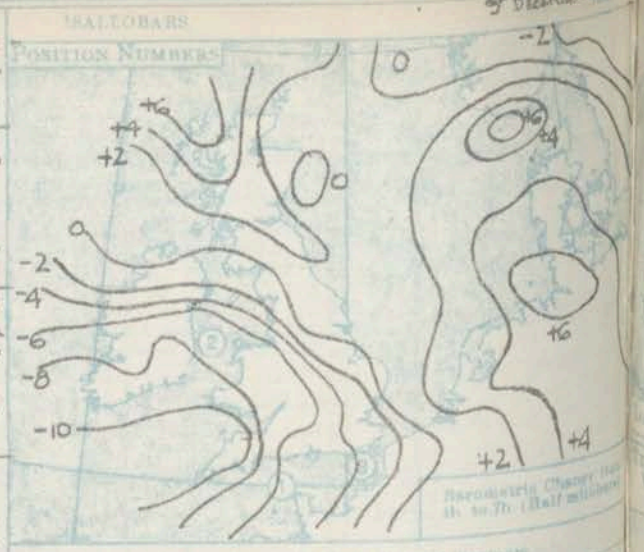
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS

Stations.	Weather. 7h.-18h.	18h.-18h.	18h. to 1h.	1h.-7h.	Temperature. Max. Day 7h.-18h.	Min. Night 18h.-7h.	Min on Grass	Rainfall† Day 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	Sun Hours.
Lerwick	bcc	orr cbc	bc	bc	45	40	•	4	14.30	-	-	0.0
Stornoway	oPR	cbcb	p	cPRbc	42	35	•	9	<8.00	5	21.00	0.0
Wick	orrbc	bbc	bbc	b-bc	44	34	•	1	<8.00	-	-	•
Tiree	hr,c,pr,c	c	phcr	r.cR	44	38	36	1	<8.00	4	21.00	0.6
Nairn	bcPRq	bc	bcx	cqpr	42	30	•	0.5	11.00	1	4.30	3.4
Aberdeen	cirbc	cr.c	cb	b-bc	45	35	27	1	<8.00	-	-	1.0
Malin Head	bbcc	cbc	cphrLPH	bcPH	42	39	•	Tr.	17.30	4	21.00	0.0
Renfrew	cpchc	cm.c	cb,cir	cirEther	45	37	32	0.3	11.00	3	22.00	0.4
Edinburgh (Inchkeith)	c	c	ocbcb	bcepr	45	38	37	-	-	1	1.30	0.0
Leuchars	cbcc	cm.c	cbcb	bcrRcq	46	34	29	0.1	9.00	4	3.30	1.1
Eskdalemuir	crRqFlor	oirrsom	cbcbc	bcr3bc	41	33	31	10	<8.00	5	21.00	0.0
Tynemouth	oc	corr	bcp.bq	bbcq	46	36	34	4	14.30	0.5	21.00	•
Blacksod Point	bbc	phqc	phqc	bcr	44	38	•	2	•	2	•	•
Donaghadee	bcc	cbc	b.bc	bc	45	35	•	-	-	2	21.00	•
Birr Castle	bcsbc	bccir	cr.o	oir	40	37	32	3	<8.00	1	21.00	1.0
Holyhead	rrcqPRH	cbc	cubcbq	b,cr	49	42	41	2	<8.00	0.2	6.30	0.8
Liverpool (Bidston)	crcqh	bcpqh	rh.p.	cbc97	46	40	37	8	<8.00	1	21.00	1.2
Chester (Sealand)	ircqrc	ir.cbc	cpir.q	bcc	47	42	35	3	<8.00	Tr.	21.00	1.1
Harrogate	cir	cbq.g	cbqPRH	cPc	46	34	30	1	<8.00	9	21.00	0.0
Spurn Head	cprc	cbc	bccprlq	bcq	47	39	•	1	<8.00	0.1	22.00	0.3
Birmingham (Edgbaston)	orcprq	cbr	cprbc	bco	45	39	36	3	<8.00	2	21.00	0.5
Cranwell	chqRorc	cir.bc	b-cprl	blnc	47	39	37	4	<8.00	0.1	24.00	0.9
Gorleston	or.q	ocbcq	cqr.bcbl	bbclq	51	40	38	1	9.00	1	21.00	0.0
Valentia (Cahirciveen)	cirohr	cihrphPH	cqbcq	rrc	47	44	40	4	<8.00	5	21.00	0.4
Roches Point	cprphqbc	bcqprplbc	bcc	corr	46	42	•	5	<8.00	10	2.30	•
Pembroke (St. Ann's H.)	cPRq	cPRHq	cplq	bcorrq	52	45	•	5	<8.00	16	22.00	0.5
Ross-on-Wye	rcRbccqPRH	qrhrtrcl	pqbcq	cor	47	42	38	13	<8.00	3	21.00	0.7
Leafield	hirRcqprh	cpqbcpPH	bcpcF	cor	49	38	34	13	<8.00	0.4	21.00	1.2
Winchester (Worthy Dn.)	crRqcpr	cPRSL	cprlbcl	bccorr	51	40	37	5	<8.00	2	21.00	0.9
S. Farnborough	orrr.bc	cprqL	p.clbc	Ror	51	36	30	6	<8.00	4	21.00	0.7
London (Kew Obsy.)	crq.cq	oirqbcq	cq	cqcpr	52	39	34	6	<8.00	0.6	21.00	0.7
Croydon	orrRcm	cPRbcrqq	crqbc	cPRqF	52	38	35	9	<8.00	4	21.00	0.5
Shoeburyness	oqp	bcqp	c	c	51	40	38	9	<8.00	-	-	0.9
Clacton-on-Sea	cq.rc	cqrcbc	bclpbc	bc	50	41	37	9	9.00	0.2	21.00	0.5
Felixstowe	crrcr	cbcrbcq	bccrl	c	50	41	39	7	<8.00	0.2	21.00	0.4
Lympne	orcmbrl	orcTLRH	cbcqprlb	bcorrm	49	39	35	14	<8.00	Tr.	21.00	0.2
Scilly (St. Mary's)	bccb	cbcbl	bcpl	bcpor	51	43	•	2	9.00	6	21.00	0.0
Falmouth (Pendennis)	obcPq	bcbqrl	bcph.lq	bcorrl	52	38	•	3	<8.00	3	21.00	1.1
Plymouth (Mt. Batten)	otcPRbcq	bcqrlPRH	cprbl	bcqrl	52	42	39	5	<8.00	0.5	21.00	1.3
Portland Bill	oRlpz	oplpz	b	bbcoRRq	54	45	•	6	<8.00	3	21.00	•
Southampton (Calshot)	crcqbcPR	cprQlq	bcqpPRH	brbcq	53	41	39	5	<8.00	1	21.00	0.8
Dungeness	oqrr	ocqrrlrh	bcl	bcqcqr	52	44	•	9	<8.00	0.3	21.00	•
Guernsey	cRQc	cTLRH	bcpre	coRpr	54	47	45	13	<8.00	5	21.00	0.8

† For code see page 1

ISALLOBARS — 8th December



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea

GENERAL INFERENCE.

A depression northeast of Scotland is filling up. A secondary depression over Southwestern districts of the British Isles will move in an easterly direction. Strong winds or gales will occur in southern districts. Weather will remain unsettled, being rather cold and showery in the North and West, while dull rainy weather will be general at first in England but will be followed by showery and somewhat colder conditions.

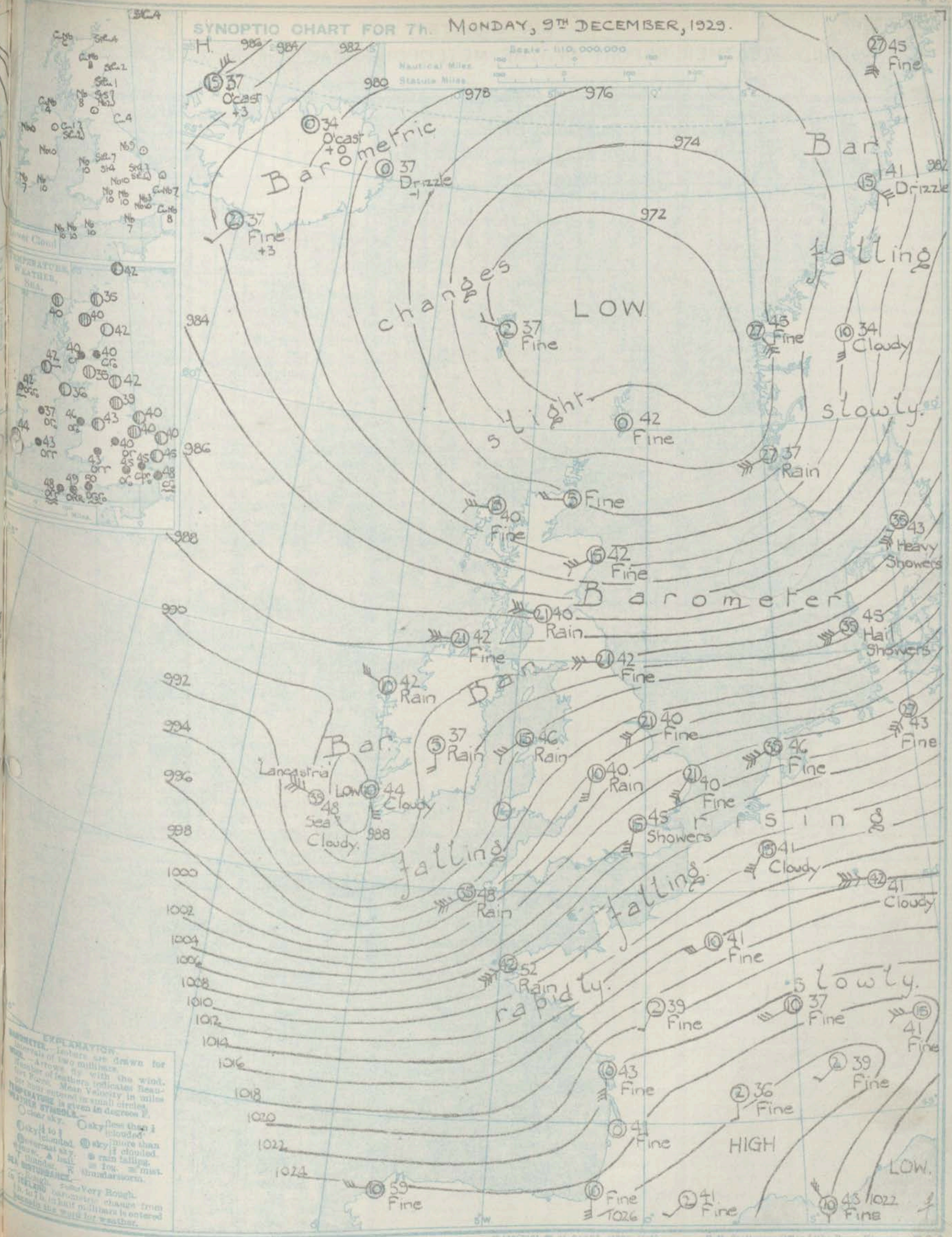
Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 9th December, 1929.

Districts.	Forecast	Farther Outlook
1. S.E. England 2. E. England 3. E. Midlands	Wind south or southwest, fresh or strong, reaching gale locally on coast, veering; dull and rainy today; squally showers, perhaps with hail, tomorrow; mild at first, then somewhat colder.	
4. W. Midlands 5. S.W. England 6. South Wales	Wind southwesterly strong to gale, veering; rainy, then squally showers, perhaps with hail and thunder; becoming somewhat colder.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind southwesterly moderate to strong then variable and finally westerly; cloudy or dull, with rain at first, showers, perhaps with sleet or hail and thunder, later; moderate temperature.	Unsettled.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southwest or west, moderate to strong; cloudy, occasional rain or sleet; moderate temperature.	↓ South Cone still flying.
13. (A) W. Scotland (B) N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind moderate to strong from a westerly point; variable sky; showers, probably with hail or sleet; rather cold; local ground frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind northwest or west, fresh to strong; some rain at first, then squally showers, perhaps with thunder and hail; rather cold; perhaps local ground frost at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1020 G.M.T. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1

Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 9th December, 1929. No. 343.

Stations	Height above M.S.L. in feet	9h. Barom. at M.S.L. mb.	9h. Change in 3 Hours*	9h. Wind. Direc.	9h. Wind. Force 0-12	9h. Weather.	9h. Temp. °F.	9h. Humidity. %	9h. Visibility. 0-6	9h. Cloud. Low. Height Feet	9h. Cloud. Low. Form	9h. Cloud. Low. Amt. 0-10	9h. Cloud. Upper Form.	9h. Cloud. Total Amt. 0-10	7h. Barom. at M.S.L. mb.	7h. Change in 3 Hours*	7h. Wind. Direc.	7h. Wind. Force 0-12	7h. Weather.	7h. Temp. °F.	7h. Humidity. %	7h. Visibility. 0-6	7h. Cloud. Low. Height Feet	7h. Cloud. Low. Form	7h. Cloud. Low. Amt. 0-10	7h. Cloud. Upper Form.	7h. Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	34	973.2	0	S	1	bc	40	85	8	1500	StCu	3	-	3	973.7	+2	-	0	bc	42	85	8	1500	StCu	4	-	4	•
Stornoway	30	975.1	-1	W	4	o|PR	•	•	6	•	•	•	•	10	978.1	+7	W	4	bc	40	85	6	4000	CuNb	6	-	6	3
Wick	81	976.5	+2	W	2	b	34	92	8	4000	StCu	2	-	2	976.1	+1	W	2	bc	35	97	8	2500	StCu	4	-	4	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	983.8	+4	NWW	7	cr-	43	75	8	1500	CuNb	9	-	9	7
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•	979.8	•	W	3	c/r	40	85	7	1500	CuNb	8	-	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	978.4	-1	WSW	4	b	42	75	8	4000	StCu	2	-	2	1
Malin Head	51	985.7	+5	W	7	bc|PR	43	75	7	2500	CuNb	4	-	4	988.1	+1	W	5	bc|pb	42	75	7	2500	CuNb	4	-	4	7
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	988.8	+3	WNW	5	cr	40	85	7	800	Nb	8	A.St.	9	•
Edinburgh (Inchkeith)	100	983.1	+6	W	5	b	39	85	8	1500	St	2	-	2	984.3	+2	WSW	8	cr	40	85	8	2500	St	9	-	9	4
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	982.2	0	WSW	8	b	41	65	8	4000	StCu	1	Cu	2	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	989.4	0	SW	5	bc	35	75	8	-	-	0	A.St.	3	•
Tynemouth	67	986.6	+7	W	5	b	40	85	8	4000	Cu	2	-	2	989.2	+2	W	5	bc	42	65	7	2500	Cu	4	-	4	4
Blacksod Point	48	992.8	+3	W	7	bc	44	65	6	•	CuNb	7	-	7	989.2	-2	WNW	4	o/r	42	75	7	•	Nb	10	-	10	7
Donaghadee	46	•	•	•	•	•	•	•	•	•	•	•	•	•	989.9	-1	WSW	3	bcr	36	85	7	4000	StCu	3	-	3	2
Birr Castle	179	•	•	•	•	•	•	•	•	•	•	•	•	•	990.5	-8	S	2	o/r	37	97	7	2500	Nb	10	-	10	•
Holyhead	28	996.2	+6	WSW	8	b	44	75	7	2500	CuNb	1	-	1	994.6	-6	SW'W	4	o/r	40	75	6	2500	Nb	10	-	10	4
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	994.7	X3	WSW	3	bc	43	85	8	2500	StCu	7	-	7	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	994.5	-6	SSW	5	cr	44	75	7	1500	St	4	A.St.	10	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	994.9	+1	SSW	4	c	39	85	7	4000	Nb	9	A.St.	10	•
Spurn Head	30	991.2	X4	W'N	7	c	43	85	7	4000	CuNb	4	A.St	8	996.2	+1	WSW	5	bc	40	85	7	-	-	0	A.St.	5	4
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	999.9	-3	SSW	3	o/r	40	85	7	1500	Nb	10	-	10	•
Cranwell	256	996.4	+10	SW'W	6	b|r	39	92	6	1500	CuNb	1	A.St	2	998.7	0	SSW	4	cr	40	85	6	1500	StCu	10	-	10	4
Gorleston	14	997.6	+7	WSW	5	b	42	85	7	-	-	0	-	0	1002.4	0	SW	5	bc	41	85	7	-	-	0	Cu.	5	•
Valentia (Cahirciveen)‡	36	1000.4	+3	W	4	o/r	46	92	8	•	St-	10	-	10	998.7	-9	SSE	3	c/r	44	92	8	2500	Nb	7	A.St.	10	5
Roches Point	32	•	•	•	•	•	•	•	•	•	•	•	•	•	999.5	-8	SW	2	o/r	43	97	7	800	Nb	10	-	10	
Pembroke (St. Ann's H.)	150	1000.9	+3	W	8	bc-	48	97	8	1500	CuNb	3	A St	4	992.7	-8	SW	6	ORR	49	97	7	800	St	10	-	10	•
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	997.3	-7	S	3	o/r	43	92	6	1500	Nb	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	999.6	-6	S	4	o/r	41	92	7	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	273	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.2	-6	SSW	4	OR	45	92	5	4500	Nb	10	-	10	•
S. Farnborough	337	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.4	-6	S	4	o/r	45	85	6	1500	Nb	10	-	10	•
London (Kew Obsy.)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1003.3	-5	SSW	4	c/pr	45	85	7	?	Nb	3	A.Cu.	9	•
Croydon	344	1004.6	+9	W'S	6	bc-	43	65	6	1500	St	4	-	4	1004.5	-3	SW'S	4	c/r	45	85	6	1500	Nb	9	-	9	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1004.5	0	SW	5	c	46	92	7	2500	StCu	7	A.St.	9	4
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1004.2	-2	SW	4	bcr	45	75	7	4000	CuNb	7	-	7	6
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1003.9	0	SW'S	4	c	44	85	7	4000	StCu	9	-	9	•
Lympne	300	1004.5	+11	WSW	6	b-	42	92	7	-	-	0	-	0	1005.5	-3	SSW	6	cr	46	85	6	800	Nb	10	-	10	
Scilly (St. Mary's)	163	1007.8	+1	W	7	bc	45	85	7	4000	CuNb	4	-	4	996.5	-11	WSW	7	orr	48	97	6	2500	Nb	10	-	10	8
Falmouth (Pendennis)	300	1008.5	+2	WSW	5	bc	45	75	8	4000	StCu	3	-	3	997.8	-8	SW/W	9	oRR	49	97	6	2500	Nb	10	-	10	7
Plymouth (Mt. Batten)	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.1	-11	SW	8	o/r	50	97	7	800	Nb	10	-	10	8
Portland Bill	37	1005.3	+7	NSW	8	b-	50	65	7	-	-	0	-	0	1000.9	-8	SHS	8	ORR	51	97	6	1500	St	10	-	10	3
Southampton (Calshot)	10	1006.4	+6	W	6	b	47	55	8	-	-	0	-	0	1004.4	-5	SSW	6	c/o	49	85	7	1500	Nb	7	A.St.	10	7
Dungeness	20	1004.6	+13	WSW	8	b	46	75	8	-	-	0	-	0	1005.6	-4	SW	7	c/o	48	92	8	2500	CuNb	8	-	8	8
Guernsey (St. Peter Port)	173	1013.0	+6	W	3	bc/pr	48	75	6	2500	StCu	4	-	4	1006.6	-7	SW	5	o/r	50	85	6	1500	Nb	10	-	10	

Observations at 9h. G.M.T. 9th. Observations at 7h. G.M.T. 9th.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 8th December

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-7h. to 9h. 8th. °F.	Temperature. Max. 9h.-17h. 8th. °F.	Rainfall.† Night 17h.-9h. 7th-8th. mm.	Rainfall.† Day 9h.-17h. 8th. mm.	Sunshine. Sunrise to Sunset. 8th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c,c	rc	34	44	1	11	0.0
Douglas (I. o. M.)	cbr	pw	39	44	3	6	0.2
Llandudno	crc	bcrsc	38	48	4	3	1.1
Colwyn Bay	bbcrc	cbcrc	38	47	6	5	0.8
Rhyl	c,bc	pbc	39	48	4	6	1.4
Wallasey	cbcir	irbcc	40	48	4	5	0.9
Southport	ocr	bcir	40	45	5	5	1.1
Blackpool	orc	orcg	38	46	6	4	0.6
Morecambe							
Ilkley	oc	cbc	36	47	4	1	0.0
Cleethorpes	co	orcco	36	46	3	0.1	0.7
Mablethorpe	odcgV	cpgvp	38	47	6	1	0.4
Skegness	or	ro	39	47	6	4	0.0
Aberystwyth	ugr	cbchw	44	47	7	3	0.4
Bath	cpbc	bcrhlr	42	51	10	8	1.8
Cheltenham	obcr	bcrbc	40	50	22	7	1.1
Leamington Spa	or	cr	39	49	21	5	0.0
Lowestoft	oidc	cibcb	39	50	2	trace	0.0
Harwich & Dovercourt	roc	rocbc	45	50	2	7	0.0
Maldon	grccr	bcc	40	51	4	3	0.6
Ilfracombe							0.8
Bude							1.6
St. Ives							1.6
Penzance	cqir	cqirh	43	51	13	3	0.3
Paignton	Rcqbcrh	qspzlqg	42	52	20	2	0.0
Torquay	oRpqp	qcrlrhpq	44	52	14	8	
Jersey	rqc	rqc	48	54	3	1	
Weymouth	qpc	Qpc	46	53	13		0.7
Bournemouth	obc	oro	43	52	19	1	0.8
Ventnor	orcw	cphow	43	52	11	2	?
Portsmouth (S'thsea)	oqir	cqp	46	52	20	2	0.0
Bognor Regis	cir	cirl	47	52	26	2	0.4
Littlehampton	cRc	cd	42	54	26	3	0.5
Worthing	cP	cPcl	46	52	12	3	0.1
Brighton	rroc	cor	45	52	7	7	0.5
Eastbourne	rrqtlr	rctlrc	46	52	7	15	0.2
Hastings	oRR	orbcth	45	52	6	13	0.0
Folkestone	orrm	orncr	43	52	4	8	0.0
Dover	roirc	crqibc	45	53	3	11	0.9
Deal	ror	orcr	42	52	6	7	0.0
Tunbridge Wells	oro	bcrhl	42	51	19	11	0.1
Ramsgate	rr	crc	45	51	1	4	0.0
Margate	br	rbc	43	51	2	3	
Southend	or	orqc	40	50	3		

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* Information not usually received. ‡ The observations at 1h. G.M.T., from an auxiliary station. * For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 9h.-17h., the minimum for the period 21h.-9h. ✱ 17h.-8h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24855 Tuesday, 10th December, 1929. Page 1.

Observations at 18h. G.M.T. 9th

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	973.8	0	SW	2	bc jp	42	85	8	1500	Cu Nb	3	ACu	6	*
Stornoway	979.4	0	W	2	c/pr	44	92	7	4000	Cu Nb	8	-	8	*
Wick	978.4	+1	W	2	bc	40	85	8	4000	Cu Nb	3	CiCu	4	*
Tiree	982.7	*	NW'W	3	bc jp	42	75	8	1500	Cu Nb	3	CiCu	6	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	981.1	-1	SW	2	bc+	42	75	7	2500	Cu	1	ACu	7	2
Malin Head	984.9	-2	W	2	c/jp	39	85	8	4000	Nb	5	ASt	9	*
Renfrew	984.4	-6	SW	3	bc	42	85	7	4000	Cu	2	Ci	3	2
Edinburgh (Inchkeith)	982.6	-2	WSW	3	bc	42	75	7	800	St	3	ACu	5	*
Leuchars	982.4	-2	WSW	3	b	42	75	6	2500	StCu	1	ACu	2	2
Eskdalemuir	984.3	-6	W'N	2	bc	34	85	8	-	-	0	ASt	6	2
Tynemouth	984.6	-4	SW	2	0	40	85	6	1500	Nb	10	-	10	*
Blacknod Point	985.6	-2	N	5	oR-	37	88	7	*	Nb	10	-	10	*
Donaghadee	984.0	-4	W	1	c	39	85	7	4000	StCu	4	ACu	8	*
Birr Castle	986.0	-2	SSW	2	c	40	92	7	2500	Nb	2	ASt	9	*
Holyhead	985.0	-8	E	3	cr.	41	97	7	800	Nb	9	CiSt	9	2
Liverpool (Bidston)	983.7	-11	NE'E	2	orr	36	97	2	1500	St	10	-	10	*
Chester (Sealand)	983.5	-12	NE'N	1	or.	38	97	3	800	Nb	10	-	10	2
Harrogate	985.6	-7	-	0	crors	35	97	4	2500	Nb	9	ASt	10	*
Spurn Head	983.2	-11	SW'S	5	crr	46	97	6	4000	Nb	8	ASt	10	*
Birmingham (Edgbaston)	983.7	-14	W	3	cr-	43	92	6	1500	Nb	9	-	9	2
Crangwell	982.9	-20	WNW	2	orr	44	97	6	800	Nb	10	-	10	2
Gorleston	988.7	-13	SSW	7	orr	46	97	6	800	Nb	10	-	10	*
Valentia (Cahirciveen)	990.3	+2	SW'W	6	c/pr	43	76	8	1500	St	8	-	8	2
Roches Point	990.8	+2	W	3	bc	43	92	8	2500	Cu Nb	4	-	4	*
Pembroke (St. Ann's H.)	985.9	-2	WSW	6	cR	45	92	7	2500	StCu	10	-	10	*
Ross-on-Wye	985.8	-9	W	4	c	48	75	8	2500	StCu	9	-	9	2
Leafield	983.1	-17	SW	8	bc/d	48	85	8	4000	St	7	-	7	2
Winchester (Worthy Dn.)	989.6	-14	WSW	7	c/r	51	76	8	1500	StCu	6	Ci	9	2
S. Farnborough	987.7	-16	SW	8	cr-	50	86	7	450	Nb	9	-	9	2
London (Kew Obsy.)	986.5	-22	SSW	6	orr	50	92	6	800	Nb	10	-	10	2
Croydon	988.6	-18	SW	7	orr	49	97	5	450	Nb	10	-	10	2
Shoeburyness	988.9	-18	SW'S	8	or.	48	97	6	450	Nb	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	989.9	-19	S'E	8	orr	46	97	7	450	Nb	10	-	10	2
Manston	992.2	-18	S	8	orr	46	97	4	220	Nb	10	-	10	2
Scilly (St. Mary's)	994.5	+4	WNW	8	bc/PR	49	85	7	4000	StCu	4	ACu	7	*
Falmouth (Pendennis)	994.5	+4	W	6	c-	48	85	7	4000	StCu	8	-	8	*
Plymouth (Mt. Batten)	993.5	+7	W	8	c/PR	49	85	7	2500	Cu Nb	9	-	9	2
Portland Bill	990.6	+4	W	8	C	51	85	7	1500	StCu	9	ASt	10	*
Southampton (Calshot)	989.8	-15	W'S	7	C-	54	85	6	800	Nb	5	ACu	9	2
Dungeness	990.9	-22	SSW	9	orr	48	97	6	1500	Nb	10	-	10	*
Guernsey (St. Peter Port)	997.2	-8	WSW	5	ORR	55	92	5	1500	Nb	10	-	10	*

Observations at 18h. G.M.T. 9th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	974.3	0	SW	2	bc jp	42	85	8	1500	Cu Nb	3	ACu	5	*
Stornoway	979.0	0	W	2	bc	38	85	6	4000	Cu Nb	6	-	6	1
Wick	978.3	0	WNW	2	c	37	92	8	2500	StCu	6	CiSt	8	0
Tiree	982.7	0	WNW	5	c/pr	41	75	8	1500	Cu Nb	6	CiSt	8	0
Nairn	980.2	*	WSW	2	bc	37	85	8	2500	Cu	6	-	6	*
Aberdeen	980.4	-1	WSW	2	c	39	75	7	-	-	0	9Cu	9	0
Malin Head	984.7	+1	WSW	5	c/pr	41	92	7	2500	Cu Nb	6	CiSt	9	5
Renfrew	984.1	0	WSW	3	c	35	92	6	5700	StCu	9	-	9	*
Edinburgh (Inchkeith)	982.6	0	WSW	3	bc	39	85	7	800	St	3	ACu	4	1
Leuchars	981.7	0	SW	1	b-	33	92	7	4000	StCu	1	ASt	2	*
Eskdalemuir	983.2	0	SW	2	c+	34	85	8	4000	StCu	7	CiSt	8	*
Tynemouth	981.7	-2	W	2	bc/m	38	85	6	1500	Cu	6	-	6	1
Blacknod Point	989.0	+3	W	6	c/PRS	42	75	7	*	Cu Nb	8	-	8	7
Donaghadee	984.4	0	W	2	c/pr	37	85	7	4000	Cu Nb	8	-	8	1
Birr Castle	988.7	+3	WSW	4	c	37	92	7	2500	St	9	-	9	*
Holyhead	997.1	+5	W'N	7	bc jp	43	85	7	2500	Cu	7	-	7	6
Liverpool (Bidston)	983.8	0	W'N	8	cr+	43	92	7	2500	StCu	9	-	9	*
Chester (Sealand)	986.4	+5	WNW	2	bc/pr	41	75	7	2500	Cu Nb	4	-	4	*
Harrogate	984.0	0	SW	1	oss	33	97	4	2500	Nb	10	-	10	*
Spurn Head	982.2	+2	NW'W	4	o/r	38	97	6	4000	Nb	10	-	10	3
Birmingham (Edgbaston)	988.3	+5	WSW	4	b-	40	86	8	2500	Cu	1	-	1	*
Crangwell	986.4	+5	W'S	5	bc	43	75	7	1500	StCu	7	-	7	*
Gorleston	985.4	+4	WSW	6	bc	48	86	7	2500	Nb	4	-	4	4
Valentia (Cahirciveen)	991.8	+1	WSW	7	c/ph	44	75	8	2500	Nb	7	ASt	8	6
Roches Point	993.5	+4	W	3	bc	41	92	8	2500	Cu Nb	6	-	6	6
Pembroke (St. Ann's H.)	989.8	+3	W	10	c/h	45	97	8	4000	Cu	8	-	8	5
Ross-on-Wye	990.3	+4	W'S	5	bc-	41	75	8	4000	Cu Nb	1	ASt	3	*
Leafield	990.6	+5	WSW	5	b/PR-	38	97	8	4000	Cu	1	-	1	*
Winchester (Worthy Dn.)	994.0	+5	WSW	5	b	43	65	8	-	-	0	ACu	1	*
S. Farnborough	992.1	+6	WSW	6	b-	43	75	8	2500	StCu	1	-	1	*
London (Kew Obsy.)	991.6	+6	WSW	5	b-	46	65	7	800	St	1	-	1	*
Croydon	992.2	+5	W'S	6	b-	45	66	6	-	-	0	-	0	*
Shoeburyness	990.7	+5	W'S	7	b-	47	86	8	-	-	0	-	0	*
Clacton-on-Sea	988.0	+4	W	6	c	48	86	7	4000	Cu Nb	8	-	8	5
Felixstowe	989.2	+5	SW'W	5	bc	48	65	7	-	-	0	ACu	3	4
Lympne	992.3	+3	SW'W	6	c	48	86	7	800	St	8	-	8	*
Manston	998.5	+4	WNW	8	bc/PR	44	75	7	4000	Cu Nb	7	-	7	8
Scilly (St. Mary's)	998.5	+4	W	7	bc-	42	75	7	4000	Cu Nb	6	-	6	2
Falmouth (Pendennis)	997.8	+5	W	6	bc/pr	43	85	7	2500	Cu Nb	4	-	4	7
Plymouth (Mt. Batten)	994.8	+7	W'S	8	C-	47	85	7	2500	Cu	8	-	8	8
Portland Bill	995.3	+7	W	6	b-	46	66	8	2500	Cu Nb	2	-	2	3
Southampton (Calshot)	992.7	+4	WSW	7	c-	49	85	8	2500	Cu	8	-	8	7
Dungeness	1001.2	+6	W	5	bc-	49	65	6	4000	StCu	4	-	4	8
Guernsey (St. Peter Port)														

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.
Kew	18	crrn	c.bryb	b.c.p.b.b	54	36	32	10	3	0.0	*	*	6
Croydon	244	c.s.p.r	c.n.b.r	b.p.b.b	53	37	33	15	0.2	0.0	*	*	6
Greenwich (Royal Obsy.)	149	crrq	c.r.p.b	b.c.p.b.b	52	36	29	6	0.3	0.0	70	79	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.6	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	54	38	30	7		0.0	73	89	*
Regent's Pk. (Botanic Gdns.)	108	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	or	orcorc	*	52	39	*	9	0.3	*	*	87	*
Kensington Palace	80	orbc	orcor	*	54	37	27	7	0.3	*	(At 18h.) c.q	83	*
Hampstead Observatory	450	*	*	*	51	33	27	9	Tr.	0.0	*	97	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.8	10h. 9th	0.03	23h. 9th and 4h. 10th

Kew Observatory Max.	Time.	Min.	Time.
0.1	9h. 9th	0.1	1h. 10th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 9th 17 h. 00 m. to 10th 7 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	1h. 00	11h. 14m	84
δ Ursae Minoris	1h. 00	11h. 14m	80

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep).
4 = Bare ground frozen (but more than 2 ins. deep).
5 = Dew (or wet grass but not wet ground).
6 = Skating to-day in 18h. and 18h. reports (Hoar frost in 18h. and 7h. reports).
7 = Snow (thin layer, often not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer).
9 = Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

1929. DECEMBER, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.50	11.46	15.36
	7.56	11.46	15.36
Greenwich	7.56	11.53	15.49
	7.57	11.53	15.49
Wick	8.53	12.05	15.17
	8.54	12.05	15.17
Valentia	8.40	12.34	16.28
	8.44	12.34	16.27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

C = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.

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

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

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0 = no swell } Calm or slight sea.
1 = mod. swell
2 = heavy swell
3 = no swell } Moderate sea.
4 = mod. swell
5 = heavy swell
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

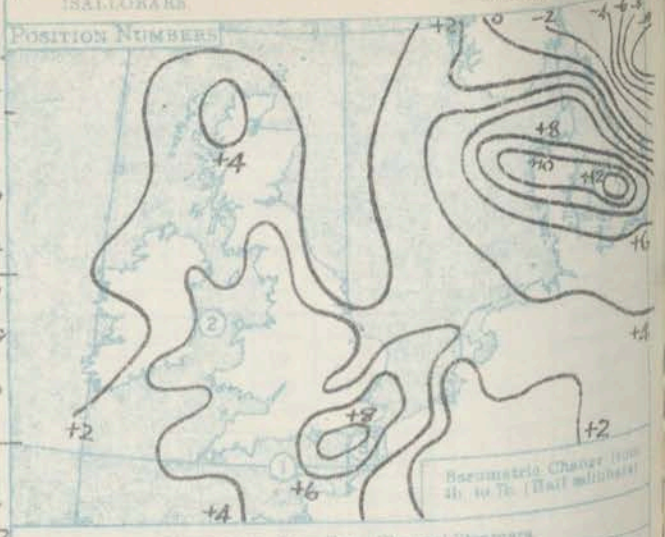
	Objects not visible at 65 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received ‡ The barometric change is expressed in half millibars.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 9½	Weather. 18h.-18h. 9½	Weather. 18h. 9½ to 1h. 10½	Weather. 1h.-7h. 10½	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day, 7h.-18h. mm.	Rainfall† Day, 7h.-18h. began.	Rainfall† Night, 18h.-7h. mm.	Rainfall† Night, 18h.-7h. began.	Sun 9½ Hours.
Lerwick	bcpr	bcpr	bccolr	ocbc	43	39	•	1	11.00	6	21.00	1.2
Stornoway	p	p	c	rd	44	36	•	1	<8.00	6	21.00	1.8
Wick	bcpr	c	bbc	bcpr	40	35	•	0.1	11.00	0.2	6.30	•
Tiree	pr	c	pHrq	rbc	44	39	37	0.3	<8.00	3	21.00	1.0
Nairn	cbc	bcx	bcxq	cqpr	41	33	•	-	-	2	3.30	3.1
Aberdeen	bcprbc	bcc	cb	bc	43	35	28	Tr.	<8.00	-	-	1.9
Malin Head	bcpc	cdjp	cphr	cpbr	42	41	•	0.2	<8.00	2	21.00	0.6
Renfrew	crqcbc	bccm	cbrsir	cir	42	34	30	2	<8.00	4	21.00	2.9
Edinburgh (Inchkeith)	cirbc	b-bc	bcmb	bbcco	42	37	35	0.1	<8.00	-	-	2.9
Leuchars	bqb	bbcxbx	oxbcx	cxbccq	42	32	25	Tr.	-	-	-	5.1
Eskdalemuir	bc	bccw	cwepbc	cpsbs	37	33	30	-	-	7	22.00	0.0
Tynemouth	bco	omm	bcq	bcq	42	36	34	-	-	-	-	•
Blacksod Point	rr	lhprs	phqc	blprq	42	37	•	12	•	3	•	•
Donaghadee	bcc	cpr	prbc	bcb	40	34	•	0.2	15.30	0.3	21.00	•
Birr Castle	orrsc	cprc	cbcl	cbxors	42	32	26	5	<8.00	1	21.00	1.1
Holyhead	rrrr	rkqpr	phorbc	bbc	46	39	36	7	<8.00	2	21.00	0.0
Liverpool (Bidston)	ormsf	rbcc	cRH	cql	43	36	34	9	9.00	5	21.00	0.0
Chester (Sealand)	rsrrnf	crf,bcmpr	bcpr	pbcb	44	39	33	5	<8.00	1	21.00	0.0
Harrogate	comrrs	ommss	ommss	cbc	40	32	32	7	9.00	11	21.00	0.0
Spurn Head	bccrr	cRcmcr	cprqprs	cprcq	45	36	•	11	11.00	1	21.00	0.0
Birmingham (Edgbaston)	corr	orcpr	bbc	bcb	45	36	33	13	<8.00	-	-	0.2
Cranwell	cmorr	orbcmc	bccmdc	cprmbm	45	36	34	14	<8.00	0.2	1.30	0.0
Gorleston	corrq	orrcq	bcblq	bbccq	52	38	36	6	9.00	-	-	0.0 05
Valentia (Cahirciveen)	cpbcph	cphbccph	cpr	cpr	47	38	36	2	<8.00	2	21.00	0.0
Roches Point	cpbc	bcpbc	bpqb	bbcc	46	37	•	4	<8.00	2	22.00	•
Pembroke (St. Ann's H.)	orrqc	crrhq	cphrr	cbcq	50	41	•	18	<8.00	1	21.00	0.0
Ross-on-Wye	rrqc	curq	bpqbbc	bc	51	39	35	13	<8.00	0.1	21.00	0.5
Leafield	orRRcq	cRchrqbc	b	bw	50	36	32	19	<8.00	Tr.	-	0.7
Winchester (Worthy Dn.)	oRRmq	cPRbcb	bbc	cprbcb	51	36	31	22	<8.00	0.4	1.30	0.0
S. Farnborough	oRRm	orcrbv	brbcp	bv	53	36	32	16	<8.00	0.1	21.00	0.1
London (Kew Obsy.)	crrm	cprqb	bpqbcb	bm	54	36	32	10	<8.00	0.3	21.00	0.0
Croydon	crrorrq	orrcrbm	bcprbc	bbcm	53	37	33	15	<8.00	0.2	21.00	0.0
Shoeburyness	corrq	orqbcrqbc	bq	bc	53	37	35	5	<8.00	-	-	0.0
Clacton-on-Sea	bcorr	orrcpc	cpbc	bc	52	38	34	4	<8.00	0.1	-	0.0
Felixstowe	orr	orrcbcq	bcb	bbc	53	39	36	6	9.00	-	-	0.0
Lympne	orrmq	orrmqcpr	cbcb	b	50	37	33	14	<8.00	-	-	0.0
Scilly (St. Mary's)	orrcp	bcr	bcp	bcpf	53	40	•	6	<8.00	4	21.00	2.2
Falmouth (Pendennis)	ormcq	cPq	bcplq	bcplq	53	(40)	•	11	<8.00	3	21.00	0.9
Plymouth (Mt. Batten)	orrmcq	cqprbc	cprbbq	crprbbl	53	40	36	7	<8.00	5	21.00	0.4
Portland Bill	cRRrc	cipc	cbc	bc	53	40	•	12	<8.00	-	-	•
Southampton (Calshot)	orrcm	cphmbm	b-bc	bbcbrb	54	38	35	13	<8.00	1	2.30	0.1
Dungeness	rqrorrq	orrcq	cqbcb	bbc	52	39	•	12	<8.00	-	-	•
Guernsey	orror	oiRbc	cphcpr	ophro	55	45	41	10	<8.00	2	22.00	0.0

Isallobars. Position Numbers. 10th December.



Barometric Change from 4h. to 7h. (Half millibars)

Observations from Cross Channel Steamers

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force	Weather.	Temp. Air	Temp. Sea	Visibility
2	9th 10h.	SCOTIA	SE'E	5	d+	43	52	6

General Inference.

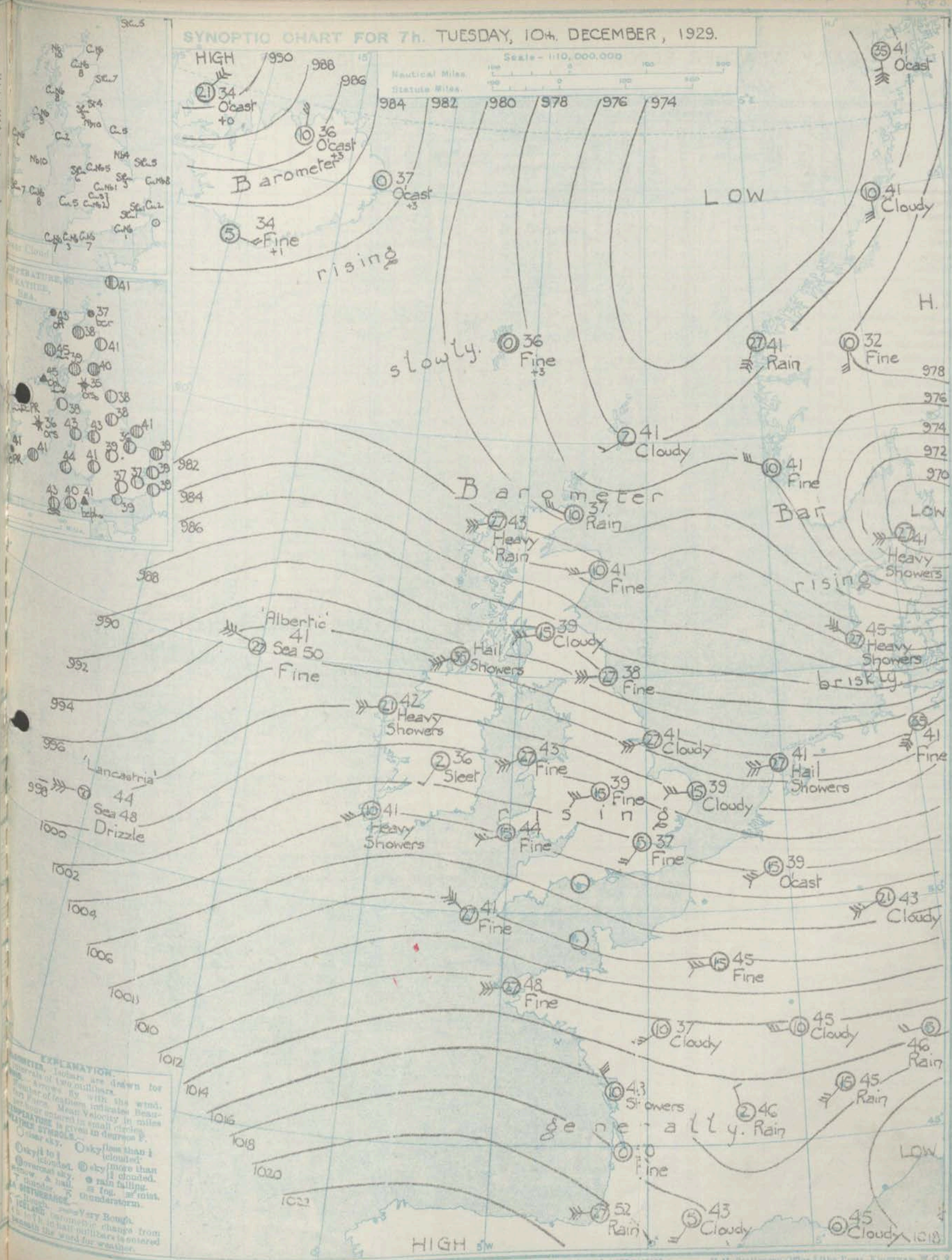
A large depression is situated northeast of Scotland and an associated secondary over Southern Scandinavia. Further disturbances will probably approach from the Atlantic. Except perhaps in the extreme West there will be bright intervals but also some wintry showers. Further rain will probably spread from the West later.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 10th December, 1929.

Districts.	Forecasts	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands	Wind westerly, moderate or fresh, backing later; mainly fair at first, apart from local showers; probably cloudy and rain later; moderate temperature; frost locally tonight.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind west or southwest, moderate or strong, backing; showers, perhaps with sleet or hail; probably further rain later; moderate temperature.	
8. N.W. England 9. N. Midlands 10. N.E. England	Wind west or southwest, moderate to strong, backing; showers of a wintry type on high ground; perhaps further rain tomorrow; moderate or rather low temperature; frost locally tonight.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A W. Scotland, B N.W. Scotland 14. Mid-Scotland 15. N.E Scotland 16. Orkneys and Shetlands 17. N.W. Ireland	Wind west or southwest, moderate to strong; showers, probably with hail, sleet or snow on high ground; moderate or rather low temperature; frost locally at night.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind west or southwest, moderate to strong, backing; showers at first; probably further rain later; moderate or rather low temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1. * Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 10th December 1929. No. 344.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 10th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 10th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun 0-9
Lerwick	34	973.9	0	SW	1	or,r	40	92	7	1500	Nb	10	–	10	975.8	+4	WSW	1	c	41	92	7	1500	St.Cu.	5	A.Cu.	9	4
Stornoway	30	980.6	+1	NW	4	oRR	•	•	6	•	•	•	•	10	982.7	+5	W	6	oR	43	92	6	1500	Nb.	10	–	10	0
Wick	31	978.4	0	WSW	3	b	35	97	8	4000	StCu	2	–	2	979.5	+2	WNW	3	bc/pr	37	97	8	1500	CuNb	7	–	7	0
Tiree	32	•	•	•	•	•	•	•	•	•	•	•	•	•	980.4	+3	NW	6	c	45	85	7	1500	CuNb	8	–	8	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	983.4	•	WSW	4	c/r	38	85	8	1500	CuNb	8	–	7	0
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	983.5	+1	W	3	bc	41	75	8	4000	St.Cu.	7	–		
Malin Head	81	989.6	+6	WNW	6	cjp	43	65	7	4000	CuNb	7	CiSt	10	992.5	+3	WSW	7	c/ph	43	85	7	2500	CuNb.	9	–	9	7
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	+3	W	4	c	39	85	7	4000	St.Cu	3	A.Cu.	8	•
Edinburgh (Inchkeith)	190	985.0	+3	WSW	4	b	39	88	8	–	–	0	A.Cu	1	987.6	+3	W	6	o	40	75	8	1500	St.	10	–	10	2
Leuchars	39	•	•	•	•	•	•	•	•	•	•	•	•	•	986.3	+2	SW	5	c	38	85	8	2500	St.	7	A.St.	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	992.5	+5	W	5	ar/sg	35	85	6	1500	Nb.	10	–	10	•
Tynemouth	67	985.5	+2	W	3	bc–	38	92	8	2500	Cu	3	–	3	989.8	+4	W	6	bc	38	85	6	2500	Cu.	5	–	5	2
Blacksod Point ...	18	994.9	+3	W	5	c	44	65	6	•	CuNb	10	–	10	992.0	+2	W	5	bc/pr	44	55	7	•	CuNb.	6	–	6	7
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	+3	W	3	b	38	75	7	4000	Cu.	2	–	2	2
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.6	+2	SSW	1	ors	36	92	7	2500	Nb.	10	–	10	•
Holyhead	28	994.7	+9	W'N	6	b–	43	92	7	2500	Cu	2	–	2	999.8	+5	W'S	6	bc	43	75	8	2500	St.Cu	6	–	5	5
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	997.9	+5	WNW	7	bc–	43	75	8	1500	CuNb	5	–	5	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	998.2	+5	WNW	4	b–	40	75	8	2500	CuNb.	1	–	1	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	994.2	+2	W'S	6	bc	38	75	7	4000	Nb.	4	–	4	•
Spurn Head	20	989.1	+4	W'N	4	c	37	92	7	4000	Nb	8	A.St	9	993.2	+2	WNW	6	c–	41	85	7	4000	St.Cu.	5	A.St.	8	4
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.8	+5	W	4	b	39	75	8	2500	Cu.	1	Cu.	2	•
Cranwell	236	991.6	+6	WSW	3	cdo	38	92	6	1500	StCu	9	–	9	997.5	+5	WSW	4	bc–	36	92	6	2500	St.Cu	3	–	3	•
Gorleston	14	992.5	+4	WSW	5	b	40	92	7	–	–	0	–	0	996.7	+5	W'N	4	c+	39	85	7	2500	CuNb	8	–	8	1
Valentia (Cahirciveen) ‖	30	1001.5	+4	W	5	(bcR)	45	97	8	•	CuNb	4	–	4	1003.9	+1	WSW	4	c/pR	41	85	8	2500	St.Cu.	7	A.St.	9	•
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1004.9	+4	NW	3	c	41	92	8	2500	CuNb.	8	–	8	5
Pembroke (St. Ann's H.)	180	997.3	+6	WNW	5	c/r	44	97	8	1500	CuNb	8	–	8	1002.9	+4	W	4	bc–	44	97	8	4000	Cu.	5	–	5	4
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.5	+5	W	3	bc	41	75	8	4000	Cu.	7	–	7	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.4	+4	WSW	4	b	36	85	8	4000	St.Cu.	1	–	1	•
Winchester (Worthy Dal.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1003.9	+6	WSW	4	b	37	85	7	4000	St.Cu.	1	A.St	2	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.2	+6	W	4	b	37	85	8	2500	St.Cu	1	–	1	•
London (Kew Obsy.) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	1003.5	+6	SW	2	b	37	92	6	2500	St.Cu.	1	Cu.	2	•
Croydon	244	997.2	+1	W'S	5	b	41	75	6	–	–	0	–	0	1004.4	+7	W'S	4	bc+	37	85	6	–	–	0	Cu.	6	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.4	+4	W'S	3	bc	39	97	7	4000	Cu.	1	A.Cu.	5	3
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	999.9	+6	WNW	4	bc	39	85	7	4000	Cu.	4	–	4	4
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	999.5	+6	WSW	4	bc+	39	85	7	2500	St.Cu.	7	–	7	•
Lympne	350	997.5	+4	WSW	5	b	41	85	7	–	–	0	–	0	1001.5	+6	W	4	b	37	92	7	4000	St.Cu.	1	–	1	0
Scilly (St. Mary's) ...	163	1003.1	+4	WNW	8	bc/pR	45	85	7	4000	CuNb	7	–	7	1008.0	+5	NW	6	bc	43	92	8	4000	CuNb	7	–	7	1
Falmouth (Pendennis)	300	1001.5	+3	W'N	7	bc/pG	44	65	7	4000	CuNb	5	A.St	7	1008.0	+4	W	4	bc–	40	85	7	4000	CuNb	3	–	3	2
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1006.9	+5	W	4	bc/ph	41	92	7	2500	CuNb	7	–	7	5
Portland Bill	32	997.0	0	W'S	8	bc	46	75	8	2500	StCu	6	ASt	7	1005.4	+6	W	5	bc	44	85	8	2500	StCu	7	–	7	0
Southampton (Calshot)	10	998.5	+2	W'S	5	b	43	65	8	–	–	0	–	0	1004.1	+3	W	4	b	39	75	8	2500	CuNb	1	A.Cu.	3	5
Dungeness	20	997.2	+2	W	6	b–	45	65	8	–	–	0	A.St	2	1001.6	+3	W	5	bc+	39	75	8	–	–	0	A.Cu.	10	8
Guernsey (St. Peter Port)	173	1005.0	+1	W	4	bc/r	45	75	6	2500	StCu	6	–	6	1008.1	+5	WNW	5	c	45	75	7	2500	StCu	10	–		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 9th DECEMBER 1929.

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 8th to 9h. 9th. °F.	Temperature. Max. 9h. 8th-17h. 9th. °F.	Rainfall.† Night 17h. 8th-9h. 9th. mm.	Rainfall.† Day. 9h. 9th-17h. 9th. mm.	Sunshine. Sunrise to Sunset. 9th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bbc	bc	35	39	1	–	0.0
Douglas (I. o. M.) ...	or,rs	or,rs	35	43	6	7	0.0
Llandudno ...	r	rcrcp	39	44	1	6	0.0
Colwyn Bay ...	orrc	crc	38	43	3	6	0.0
Rhyl	or	rc	39	43	3	6	0.0
Wallasey	rrrsr	rorr	39	44	3	10	0.0
Southport	orrss	rsr	*39	41	3	13	0.0
Blackpool	or	ors	39	39	4	9	0.0
Morecambe ...	c	orrcr	36	43	5	6	0.0
Ilkley	ros	os	33	40	18	8	0.0
Claethorpes	or	ror	36	44	0.2	11	0.0
Mablethorpe ...	omrr	omro	39	45	Trace	13	0.0
Skegness	bcor	roc	38	45	0.3	15	0.1
Aberystwyth ...	qrbc	crqu	35	47	8	5	0.1
Bath	rrcir	qirch	40	54	7	9	0.0
Cheltenham ...	orbc	orco	40	51	3	9	0.0
Leamington Spa ...	orc	bccpr	38	50	5	4	0.5
Lowestoft	cprc	cp	40	51	3	7	0.0
Harwich & Dovercourt	ocr	prcrcr	39	47	2	4	0.0
Maldon	rrr	rc	40	53	3	4	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	rr	oc	45	54	8	5	0.1
Bude	pbc	prbbc	43	54	8	2	0.8
St. Ives	o	pr	40	54	16	6	0.0
Penzance	cir	cirq	44	52	14	–	1.2
Paignton	ctlRq	ecrpqb	44	54	16	9	0.5
Torquay	orqcR	pqbvq	43	55	17	5	1.2
Jersey	rqc	crqc	43	55	5	6	0.0
Weymouth	rQPc	cpc	44	54	10	4	0.0
Bournemouth ...	orof	crob	42	52	11	12	0.3
Ventnor ...	or	oucbc	43	53	2	4	0.0
Portsmouth (S'thsea)	pbc	pbc	41	53	7	9	0.1
Bognor Regis ...	RRbc	rbc	44	53	6	11	0.7
Littlehampton ...	orcr	crcbc	40	53	5	7	0.0
Worthing	crr	crc	42	53	7	7	0.0
Brighton	orroc	cbc	43	53	3	7	0.0
Eastbourne	rr	rrbc	43	53	6	8	0.0
Hastings ‖	RR	oroc	43	53	8	8	0.0
Folkestone	orrm	ormcr	41	52	5	8	0.0
Dover	orr	roc	42	53	8	9	0.0
Deal	rr	ro	40	53	4	13	0.0
Tunbridge Wells ...	orr	orcbc	38	53	6	11	0.0
Ramsgate	rr	ro	41	53	1	6	0.0
Margate	cr	crc	40	53	1	6	0.0
Southend	or	or	41	52	1	3	0.0

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* Information not usually received. ‖ The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. § See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24856 Wednesday 11th December 1929.

Observations at 18h. G.M.T. 10th

Stations. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	981.6	+7	W	3	bc/p	42	85	8	1500	CuNb	3	CiSt	7	•
Stornoway	988.6	+5	W	4	c/PH	43	92	6	4000	CuNb	7	ACu	8	•
Wick	986.1	+5	WNW	2	c/pr	40	92	8	1500	CuNb	6	CiSt	8	•
Tiree	993.7	+4	WNW	6	ch/(c)	44	86	8	1500	CuNb	8	-	8	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	989.4	+5	W'N	4	c	42	75	8	4000	CuNb	1	ACu	8	1
Malin Head	996.8	+3	WSW	6	bc	43	75	8	4000	Cu	6	-	6	•
Renfrew	995.9	+5	WSW	4	bc/pr	44	75	7	2500	CuNb	4	Ci	4	2
Edinburgh (Inchkeith)	993.3	+3	SW	4	c	43	75	7	800	St	2	ASt	9	•
Leuchars	992.2	+7	WSW	4	c	41	75	8	4000	Cu	8	-	8	1
Eskdalemuir	996.8	+3	WSW	4	c/pr	38	75	8	1500	StCu	9	-	9	2
Tynemouth	995.9	+3	W	6	bc/pr	43	75	6	2500	Cu	2	Ci	3	•
Blacksod Point	998.9	+1	W	5	bc	44	55	8	•	CuNb	6	-	6	•
Donaghadee	999.0	+4	W	2	b	41	75	8	4000	Cu	1	-	1	•
Birr Castle	1002.4	-1	SSW	2	c+	40	85	7	4000	Cu	3	CiSt	8	•
Holyhead	1003.0	+1	WSW	5	c+	45	75	8	4000	StCu	4	ACu	8	1
L[illegible]ool (Bidston)	1001.8	+2	W'N	6	bc-	43	65	8	2500	CuNb	3	CiSt	3	•
[illegible]ot (Sealand)	1002.5	+4	WSW	4	b	46	65	8	2500	Cu	1	Ci	2	2
Harrogate	1000.1	+3	WSW	3	bc+	40	75	8	2500	Nb	7	-	7	•
Spurn Head	1000.4	+8	W'N	5	bc	43	75	6	2500	CuNb	4	ASt	7	•
Birmingham (Edgbaston)	1004.8	+3	WSW	4	bc-	43	65	8	2500	Cu	3	-	3	2
Cranwell	1002.8	+3	W'S	5	bc+	42	85	7	1500	StCu	6	CiCu	7	1
Gorleston	1003.4	+3	W	4	b+	44	92	7	~~800~~ 1000	Cu	1	-	1	•
Valentia (Cahirciveen)	1002.2	-5	SW	3	c/p	44	75	8	4000	St	4	ASt	10	2
Roches Point	1005.4	-2	SW	2	c	44	97	8	1500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1005.1	+3	SW'W	5	c/PR	47	97	7	2500	Nb	8	ASt	10	•
Ross-on-Wye	1005.7	+4	W'S	4	bc	45	55	8	4000	StCu	2	ACu	6	2
Leafield	1005.7	+2	W'S	6	b	42	65	8	4000	Cu	<1	CiSt	1	2
Winchester (Worthy Dn.)	1008.1	+3	WSW	4	bc+	44	65	8	-	-	0	ACu	7	2
S. Farnborough	1007.2	+3	W	4	c	46	65	8	2500	StCu	5	Ci	8	2
London (Kew Obsy.)	1007.2	+4	WSW	4	b	44	65	8	1500	Cu	1	-	1	2
Croydon	1007.6	+3	W	4	bc	45	65	7	2500	Cu	2	Ci	3	2
Shoeburyness	1007.0	+6	WSW	4	b	44	85	7	-	-	0	ACu	1	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1006.1	+5	WSW	4	bc	44	75	7	-	-	0	Ci	3	1
Lympne	1007.6	+4	WSW	4	b-	44	65	8	2500	Cu	1	Ci	2	2
Scilly (St. Mary's)	1007.9	-1	W'S	6	c/pr	49	92	7	4000	StCu	9	-	9	•
Falmouth (Pendennis)	1008.2	-2	SW'W	6	c	48	75	8	2500	Nb	7	ASt	9	•
Plymouth (Mt. Batten)	1008.7	-2	SW	6	cr	47	97	8	1500	Nb	9	-	9	2
Portland Bill	1008.0	+4	W	6	bc	48	65	8	2500	StCu	6	ASt	7	•
Southampton (Calshot)	1009.3	+3	W'N	5	c	47	55	8	7200	StCu	7	Ci	8	2
Dungeness	1009.3	+5	W	3	bc-	46	75	8	-	-	0	ASt	4	•
Guernsey (St. Peter Port)	1013.0	+2	WSW	3	c/pr	48	75	6	1500 ~~NB~~	Nb	10	+	10	•

Observations at 18h. G.M.T. 10th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	986.7	+4	WSW	1	bc	41	85	8	1500	StCu	3	-	3	•
Stornoway	989.4	-1	WSW	2	bc-	39	92	7	4000	CuNb	3	-	3	1
Wick	989.1	+2	WNW	2	bc	37	92	8	1500	CuNb	3	ACu	4	0
Tiree	992.2	-1	SW'W	4	bc	42	85	8	2500	CuNb	5	-	5	5
Nairn	991.0	•	W	1	bc	36	85	8	2500	Cu	4	-	4	•
Aberdeen	992.7	+2	WSW	3	bc	39	75	7	-	-	0	ACu	3	0
Malin Head	994.0	-3	SSE	4	c	38	85	7	5700	StCu	3	ASt	10	5
Renfrew	996.7	-2	SW'S	4	bc	39	85	7	2500	CuNb	1	Ci	4	•
Edinburgh (Inchkeith)	996.1	+3	SW	5	c/PR	40	85	7	4000	CuNb	8	-	8	3
Leuchars	995.3	+4	WSW	4	b	37	85	8	4000	StCu	1	ACu	2	•
Eskdalemuir	998.2	0	SW'W	5	bc+	35	85	8	2500	StCu	1	Ci	6	•
Tynemouth	998.7	+4	WSW	3	bc	40	85	6	2500	Cu	4	-	4	2
Blacksod Point	990.6	-4	SE	4	ORR	41	85	7	•	Nb	10	-	10	6
Donaghadee	997.0	-2	W	1	C+	37	85	7	4000	StCu	8	-	8	0
Birr Castle	995.4	-7	SSE	2	or+	39	92	6	2500	Nb	10	-	10	•
Holyhead	1000.4	-6	SSW	4	c/r	44	92	7	1500	Nb	4	ASt	10	4
L[illegible]ool (Bidston)	1001.2	-2	S'W	3	bc	40	75	7	1500	StCu	5	ACu	7	•
[illegible]ot (Sealand)	1001.8	-3	S	1	C+	40	75	6	2500	St	6	ASt	9	•
Harrogate	1001.9	0	SSW	1	b	36	85	5	-	-	0	CiSt	2	•
Spurn Head	1001.8	+1	W'S	4	c	39	85	6	4000	StCu	4	CiCu	8	3
Birmingham (Edgbaston)	1004.0	-1	SSW	3	c+	40	86	8	4000	StCu	9	-	9	•
Cranwell	1004.7	+1	SW'S	3	bc+	37	85	7	4000	St	2	CiCu	4	•
Gorleston	1006.4	+2	SW'S	3	bc+	40	75	7	-	-	0	CiSt	3	0
Valentia (Cahirciveen)	989.5	-17	S'E	7	cR-	50	92	7	1500	St	8	ASt	10	5
Roches Point	997.1	-8	SW	3	orr	43	97	7	800	Nb	10	-	10	5
Pembroke (St. Ann's H.)	1002.0	-3	WSW	3	orr	45	97	7	2500	Nb	10	-	10	4
Ross-on-Wye	1003.8	-3	S	2	c/r	41	92	6	2600	Nb	9	ASt	10	•
Leafield	1004.9	-2	S	4	c	39	85	7	4000	StCu	7	ASt	9	•
Winchester (Worthy Dn.)	1006.7	-3	SSE	2	c/r	41	97	6	1500	Nb	8	ASt	10	•
S. Farnborough	1006.7	-2	S'W	2	cr+	42	86	7	2500	Nb	6	ASt	10	•
London (Kew Obsy.)	1007.6	-2	S	2	cr+	43	85	6	1500	St	8	ASt	10	•
Croydon	1007.8	-1	SSW	3	cr+	42	75	6	2500	Nb	4	ASt	10	•
Shoeburyness	1008.8	+1	WSW	2	c	41	92	7	-	-	0	ACu	8	•
Clacton-on-Sea	1007.3	+3	WSW	4	bc+	43	75	7	4000	Cu	7	-	7	3
Felixstowe	1008.1	+1	SW'S	3	c	42	85	7	4000	StCu	10	-	10	2
Lympne	1008.8	0	SW'S	2	cd	41	85	5	1500	Nb	10	-	10	•
Scilly (St. Mary's)	1004.3	-4	WSW	7	orr	50	97	7	2500	Nb	10	-	10	7
Falmouth (Pendennis)	1005.8	-2	SW'W	6	orr	48	92	7	2500	Nb	10	-	10	2
Plymouth (Mt. Batten)	1005.9	-3	SW	3	orr	47	97	6	800	Nb	10	-	10	4
Portland Bill	1005.7	-2	WSW	6	cr	49	85	8	1500	StCu	10	-	10	5
Southampton (Calshot)	1007.8	-3	W	4	orr	47	86	7	800	Nb	10	-	10	0
Dungeness	1009.7	+1	SW	3	cr	46	85	8	7200	Nb	8	-	8	4
Guernsey (St. Peter Port)	1010.0	-4	SW	4	ORR	49	92	5	1500	Nb	10	-	10	5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (M HOURS ENDED 9a.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.
Kew	18	bc/p	bc/p	c/pr	44	42	40	tr	3	2	•	•	6
Croydon	264	bc/p	bc/p	c/pr	45	42	39	0	7	2	•	•	6
Greenwich (Royal Obsy.)	149	0	bc	c/pr	44	42	36	-	5	3·7	69	65	•
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	1·9	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	45	38	38		5	4·0	69	63	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	3·3	•	•	•
Camden Square	110	bc	c	•	52	39	•	-	tr	•	•	74	•
Kensington Palace	80	bc/o	c/o	•	45	43	40	-	5	•	(At 18h) 53	72	•
Hampstead Observatory	450	•	•	•	43	40	37	1	tr	tr·1	•	82	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1·0	10h. 10th	<0·3	14-7h. 11th.

Kew Observatory

Max.	Time.	Min.	Time.
0·3	16h. 10th	<0·1	1-7h. 11th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 10th 17 h. 00 m. to 11th 07 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14·00	1·34	11
δ Ursae Minoris	14·00	0·46	5

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

(Based on Greenwich Mean Time.) DECEMBER 3, 1929.

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·56	11·46	15·36
	7·57	11·47	15·36
Greenwich	7·57	11·53	15·49
	7·58	11·54	15·49
Wick	8·54	12·06	15·17
	8·55	12·06	15·16
Valentia	8·41	12·34	16·27
	8·42	12·35	16·27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
ts 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.
R = heavy rain. r0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = less than (for cloud height), before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; → = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

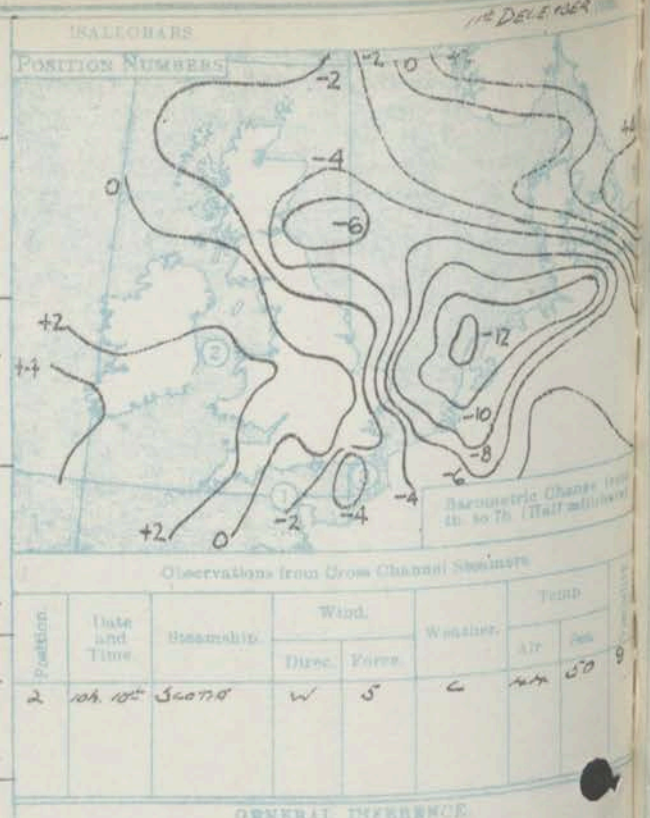
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 10m	13h.-18h. 10m	18h. 10m to 1h. 11m	1h.-7h. 11m	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	Rainfall.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun 10m. Hours.
Lerwick	cbcp.r	bcp.r	bcp.r	bcpr.	43	37	•	2	11.00	Tr.	21.00	0.4
Stornoway	p	cprbc	b.bc	cbc3	43	33	•	4	18.00	-	-	0.3
Wick	cpr	cprbc	b-bc	c	40	35	•	3	18.00	-	-	•
Tiree	c	cbc	cr	rcir	46	38	34	0.1	12.30	5	22.00	2.5
Nairn	cRro	rcbcx	bcx	bc	39	34	•	6	18.00	-	-	0.0
Aberdeen	bcc	cbc	bc	crrir	42	35	26	-	-	3	3.30	0.0
Malin Head	cPHrbc	bcc	oir	oir	45	34	•	4	18.00	8	22.00	1.3
Renfrew	cprphqbcjp	bcqcrb	bcqcrr	crr.	44	35	32	2	18.00	6	21.00	2.3
Edinburgh (Inchkeith)	oc	cpr	Cobr	oprsrr.	44	37	34	1	15.30	3	21.00	0.7
Leuchars	cxqc	cbcb	bbc	bcorr.	43	34	30	-	-	7	1.30	1.2
Eskdalemuir	crsbccrqc	cprs b	cxr.s.	cr.s.r.	39	31	27	3	18.00	8	24.00	1.7
Tynemouth	bcp.q	bcq	bcoir.	oir	43	37	33	0.2	9.00	6	21.00	•
Blacksod Point ...	phqbc	rr	rir	pr	44	38	•	2	•	11	•	•
Donaghadee	b	bbcc	corr	cir.	42	36	•	-	-	7	21.00	•
Birr Castle	orsbc	cor.r.	orcir	oir	40	38	37	2	18.00	8	21.00	1.7
Holyhead	bcjpbc	cr.	r.r.c	r.c	47	43	41	0.2	17.30	5	21.00	2.4
Liverpool (Bidston) ...	bcbbc	bc	bcor.	cogrr	43	39	36	-	-	2	21.00	4.8
Chester (Sealand) ...	bcpr.	bbccz.	cm.r.r.	ckqir	46	39	33	Tr.	11.00	3	22.00	4.7
Harrogate	bcb	cp.b	bbcrr	bcciR	40	35	29	Tr.	14.30	67	22.00	4.0
Spurn Head	cbc	bcc	corr	orrcprq	44	38	•	-	-	3	22.00	4.4
Birmingham (Edgbaston)	bbc	bcc	cor.r.	oiRr	44	39	38	-	-	7	21.00	5.0
Cranwell	bm.bc	bcbbc	bcorm.	adcirm.	43	35	34	-	-	2	22.00	4.8
Gorleston	cb	b	bccorr	orrcq	44	38	34	-	-	3	22.00	5.2
Valentia (Cahirciveen)	cPhrc	curcrrR	Rbcc	cqE	50	49	46	17	9.00	1	21.00	0.0
Roches Point	c	corr	orrc	cpbc	47	43	•	5	14.30	6	21.00	•
Pembroke (St. Ann's H.)	cphq	crrq	orrcq	cbcpqE	48	45	•	1	11.00	6	21.00	0.5
Ross-on-Wye	bcbvbc	cd.	cr.	cqrdq	46	40	39	0.2	16.30	4	21.00	4.1
Leafield	b	bcc	crr	cr, R	42	37	31	-	-	7	21.00	4.6
Winchester (Worthy Dn.)	bccprcbc	bccr.r.	corrm.	orrcpr.	45	40	39	0.6	9.00	6	21.00	2.8
S. Farnborough ...	bvcjpbcc	crb	cr.orr	orrbcR	46	41	39	0.2	16.30	8	21.00	3.0
London (Kew Obsy.) ...	bcm.b	bccr.	cr.or.r	or.rcqrq	44	42	40	Tr.	17.30	3	21.00	4.2
Croydon	bbcz.	bccz.r.	cd.r.r.	orrqbcr	45	42	39	0.1	17.30	4	21.00	4.2
Shoeburyness	bcb	bbc	cr	c(r)	45	41	40	-	-	4	21.00	4.7
Clacton-on-Sea ...	bcm	bcmbc	bccprc	cprbc	44	43	40	-	-	3	21.00	4.4
Felixstowe	bcbbc	bbcc	cbcar	crbc	44	41	40	-	-	3	21.00	5.7
Lympne	bbc	bccodm	adm.rrq	orqm.	45	41	37	Tr.	17.30	11	21.00	5.4
Scilly (St. Mary's) ...	bccp	cporr	orrbc	bcE	50	49	•	8	18.00	2	21.00	0.0
Falmouth (Pendennis)	bcqcr.	corrq	orrqoc	bccq	48	48	•	6	9.00	7	21.00	0.6 0.2
Plymouth (Mt. Batten)	bcprq	cqPRrrm	orrqE	brcpRbq	48	47	46	4	18.00	10	21.00	0.3
Portland Bill	bc	bccp.	orr	orrrcc	51	41	•	1	19.30	4	21.00	•
Southampton (Calshot)	bcc	crrrm.	orrrrr	orrcbqE	47	45	43	3	15.30	6	21.00	3.2
Dungeness	bc	bccr.	orr	orrqrE	47	45	•	Tr.	17.30	13	21.00	•
Guernsey	ccpr	orcRR	orcpr	opr Tc	49	49	51	9	12.30	6	21.00	1.8



Observations from Cross Channel Steamers

Position	Date and Time	Steamship	Wind. Direc.	Wind. Force	Weather.	Temp. Air	Temp. Sea	
2	10h. 10m	Scotia	W	5	c	44	50	9

GENERAL INFERENCE

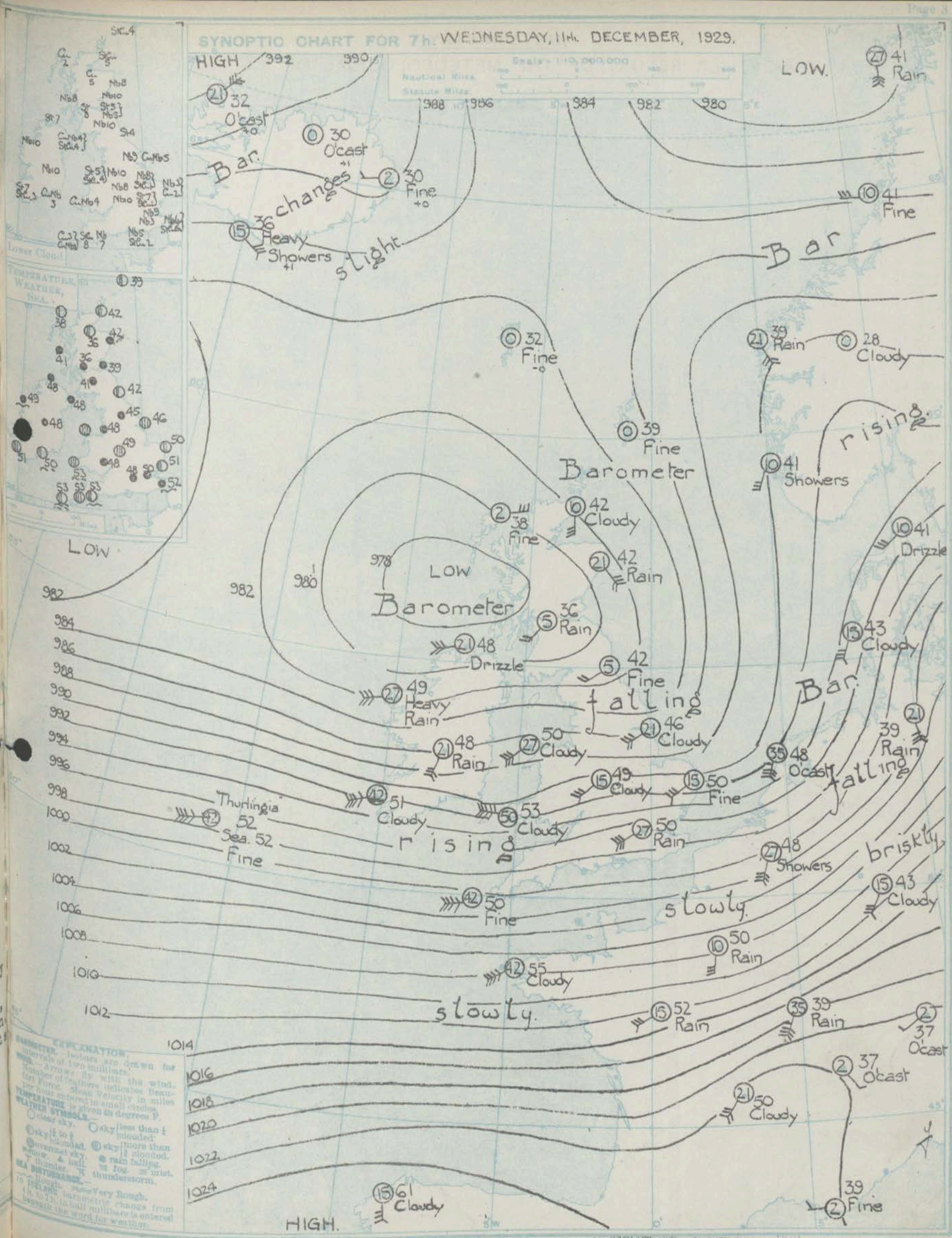
A depression off Northwest Ireland will move slowly northeast. Conditions favour the approach of further disturbances from the Atlantic. Weather will continue unsettled but with some bright intervals. Strong winds or gales from west or southwest will occur at exposed places in western and southern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 11th December, 1929.	Further Outlook
1. S.E. England ↓ 2. E. England ↓ 3. E. Midlands 4. W. Midlands 5. S.W. England ↓ 6. South Wales ↓ 7. North Wales ↓ 8. N.W. England ↓ 9. N. Midlands 10. N.E. England ↓	Wind west or southwest, moderate to strong, reaching gale at times locally; cloudy, but some bright intervals; occasional rain or showers; mild.	Unsettled.
11. S.E. Scotland ↓ 12. S.W. Scotland & Isle of Man ↓	Wind southwest or west, moderate or fresh; rainy at first, then showers; moderate temperature.	South Cone hoisted yesterday at 14h.10m. in districts 1,5,6, 19,20, and at 15h. 50m. in districts 2,7,8,10,11,12, 17 and 18.
13. (A. W. Scotland (B. N. W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind easterly or variable, becoming southwest or west; rainy, then showery; moderate temperature.	
17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	As 1 - 10.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1015 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.


SYNOPTIC CHART FOR 7h. WEDNESDAY, 11th. DECEMBER, 1929.
HIGH
LOW.
Bar.
changes
Bar
Barometer
rising
LOW
Barometer
falling
Bar.
falling
rising
briskly
slowly.
slowly.
HIGH.
Thurlingia
Sea. 52
Fine

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday, 11th December 1929. No. 345

Observations at 1h. G.M.T. 11th

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours*	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity %	Visibility† 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10
Lerwick	34	986.6	0	-	0	bc	40	85	8	1500	Cu	3	-	3
Stornoway	30	985.9	-5	SW	3	c+	•	•	7	•	•	•	•	8
Wick	81	987.0	-5	W	2	bc	38	92	8	2500	StCu	4	-	4
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	81	977.6	-14	SSE	4	or	40	97	7	2500	No	10	-	10
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	988.3	-7	SE	3	o/pr	37	92	7	2500	No	10	-	10
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	989.5	-11	S	3	or	38	97	6	1500	No	10	-	10
Blacksod Point	18	978.4	-2	W	6	or	50	75	6	•	No	10	-	10
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	28	986.6	-9	SW	6	cr	51	97	6	2500	No	8	-	8
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	26	992.0	-5	SW	5	orr	41	97	6	2500	No	10	-	10
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	256	992.9	-13	SSE	5	odd	40	97	6	1500	No	10	-	10
Gorleston	14	993.9	-6	SW	4	orr	43	97	6	1500	No	10	-	10
Valentia (Cahirciveen)‡	30	984.9	0	NW	7	b/pr	49	92	8	•	CuNo	6	-	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	990.3	-4	SW	6	c	53	85	6	1500	CuNo	10	-	10
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	18	•	•	•	•	•	48	•	•	•	•	•	•	•
Croydon	244	993.2	-10	SW	5	or	49	92	6	800	No	10	-	10
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	56	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	1001.3	-9	SSW	6	or	47	92	7	800	No	10	-	10
Scilly (St. Mary's)	163	998.0	-2	SSW	8	bc	53	92	7	4000	StCu	5	-	5
Falmouth (Pendennis)	200	997.8	0	WSW	9	bc	53	97	7	4000	Cu	4	ACu	6
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	996.8	-10	SW	8	or	53	97	7	800	No	10	-	10
Southampton (Calshot)	10	990.0	-11	SW	8	or	51	92	7	800	No	10	-	10
Dungeness	20	1000.3	-11	SW	7	or	51	85	8	1500	No	10	-	10
Guernsey (St. Peter Port)	172	1005.8	-6	SW	5	o/pr	52	92	6	2500	StCu	10	-	10

Observations at 7h. G.M.T. 11th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours*	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity %	Visibility† 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun 0-9
Lerwick	989.9	-2	-	0	bc	39	92	8	1500	StCu	4	-	4	•
Stornoway	990.3	-3	E	3	b	38	92	7	4000	Cu	2	-	2	1
Wick	993.0	-3	S	3	c	42	75	8	1500	StCu	5	AStr	10	0
Tiree	977.0	-1	SE'S	5	cr	41	97	6	1500	NS	8	AStr	10	5
Nairn	980.3	•	-	0	ocr	36	85	8	2500	Cu	5	ACu	7	•
Aberdeen	980.5	-4	SE'E	5	cr	42	92	6	1500	NS	8	AStr	10	•
Malin Head	979.9	+1	WSW	5	c/o	48	92	6	1500	St	7	ACu	9	•
Renfrew	980.8	0	SW	2	c/o	35	97	7	2500	St	8	AStr	10	0
Edinburgh (Inchkeith)	979.4	-6	E	2	o/o	39	92	7	2500	St	10	-	10	•
Leuchars	979.2	-7	-	0	o/o	39	92	7	800	NS	10	-	10	•
Eskdalemuir	980.1	0	SW	4	o/o	41	97	7	1500	NS	10	-	10	2
Tynemouth	980.2	-4	WSW	2	b/r	42	97	7	1500	St	4	-	4	•
Blacksod Point	980.7	+1	W	6	oR	49	85	6	•	NS	10	-	10	6
Donaghadee	980.5	+1	W	2	c/o	48	85	7	4000	CuNS	8	-	8	1
Birr Castle	983.5	+2	SSW	5	or	48	85	6	2500	NS	10	-	10	•
Holyhead	987.2	+3	WSW	6	c	50	85	7	2500	St	9	-	9	5
Liverpool (Bidston)	985.0	+1	W	7	or	48	85	7	1500	NS	10	-	10	•
Chester (Sealand)	986.5	+2	WSW	5	c/r	49	75	7	1500	St	9	-	9	•
Harrogate	983.7	-1	SW	6	cR	45	92	6	2500	NS	9	-	9	•
Spurn Head	983.7	-1	WS	5	c	46	92	7	2500	CuNS	5	AStr	8	3
Birmingham (Edgbaston)	990.0	+1	WSW	4	c/r	49	75	8	1500	NS	8	ACu	9	•
Cranwell	987.5	0	SW	6	cr	47	92	6	1500	NS	9	-	9	•
Gorleston	989.3	-8	WSW	4	bc	50	92	7	2500	NS	5	-	5	1
Valentia (Cahirciveen)‡	992.3	+5	WSW	8	c	51	65	8	2500	St	10	-	10	•
Roches Point	993.9	+3	W	5	bc	50	85	8	1500	CuNS	3	-	3	6
Pembroke (St. Ann's H.)	990.3	+3	WNW	9	cr	53	97	7	4000	CuNS	4	ACu	8	7
Ross-on-Wye	992.4	+1	W	6	od	48	85	6	2500	NS	10	-	10	•
Leafield	991.5	+1	WSW	6	or+	46	92	6	800	NS	10	-	10	•
Winchester (Worthy Dn.)	996.6	0	WSW	6	b/p	51	65	7	1500	StCu	7	-	7	•
S Farnborough	995.3	+1	WSW	6	bc/pR	48	85	8	1500	NS	3	-	3	•
London (Kew Obsy.)	994.3	+1	WSW	6	cR	50	75	6		NS	9	AStr	10	•
Croydon	994.9	-1	WS	5	cr	52	75	6	1500	NS	8	AStr	10	•
Shoeburyness	993.7	0	WSW	5	c/r	52	85	7	2500	StCu	5	AStr	8	•
Clacton-on-Sea	992.5	-2	SW	6	bc	51	75	7	4000	Cu	3	-	3	6
Felixstowe	993.0	-3	WSW	5	bc	51	75	7	2500	StCu	6	-	6	6
Lympne	995.3	-2	SW	6	or	52	85	5	800	NS	10	-	10	•
Scilly (St. Mary's)	1000.3	+3	W	8	bc	53	85	7	4000	Cu	5	-	5	9
Falmouth (Pendennis)	1000.0	+2	WSW	8	cr	53	85	8	4000	StCu	8	-	8	•
Plymouth (Mt. Batten)	999.7	+2	W	7	bc+	53	75	7	1500	NS	7	-	7	•
Portland Bill	996.3	+3	WSW	8	c-	54	75	7	2500	StCu	7	ASt	8	6
Southampton (Calshot)	997.2	-1	WS	6	b/pb	53	65	7	800	NS	7	-	7	3
Dungeness	998.4	-6	WSW	8	c/o	53	92	7	1500	St	10	-	10	6
Guernsey (St. Peter Port)	1004.8	+5	WSW	5	c-	54	85	8	2500	StCu	8	-	8	8 7

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 10th DECEMBER 1929.

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 21h.-9h. to 9h. 10th	Temperature. Max. 9h.-17h. 9th	Rainfall† Night 17h.-9h. 9th-10th	Rainfall† Day 9h.-17h. 10th	Sunshine. Sunrise to Sunset. 10th
(1)	(2)	(3)	(4) °F.	(5) °F.	(6) mm.	(7) mm.	(8) hr.
Berwick-on-Tweed	cr.	c	34	44	-	Trace	0.0
Douglas (I. o. M.)	b	b	33	43	4	-	4.9
Llandudno	bcpbc	bcc	38	45	2	0.1	2.5
Colwyn Bay	cbpcb	bcb	37	45	6	0.5	3.0
Rhyl	bbcp	bc	37	45	3	0.3	4.4
Wallasey	bbc	b	36	45	9	-	4.8
Southport	bcc	cbcc	*34	45	4	-	2.9
Blackpool	orc	cbc	33	45	15	-	2.6
Morecambe	cbbcb	bcc	33	44	13	-	2.6
Ilkley	bcp	bc	32	41	17	2	1.6
Claethorpes	cb	cb	34	43	1	-	2.6
Mablethorpe	bc	bcb	34	43	3	-	4.4
Skegness	ocb	b	36	39	0.4	-	5.4
Aberystwyth	qc	bcc	42	47	-	-	2.0
Bath	bcbc	cir	39	46	8	1	1.2
Cheltenham	bcb	bbco	37	45	1	-	4.4
Leamington Spa	b	bbcc	37	45	0.1	-	4.7
Lowestoft	b	b	37	44	0.5	-	6.2
Harwich & Dovercourt	b	bc	37	44	-	-	6.0
Maldon	bc	bc	38	44	-	-	4.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	cod	odo	41	48	7	0.6	0.1
Bude	peprh	prr	42	48	3	16	0.0
St. Ives	p	p	39	50	2	2	0.0
Penzance	c	cor	40	61	2	4	0.0
Paignton	pbbccor	por	38	47	2	2	1.5
Torquay	pbc	borpod	39	48	3	1	1.6
Jersey	rbcc	rqc	43	51	2	3	1.4
Weymouth	cbbc	poc	40	49	2	Trace	3.4
Bournemouth	b	ododo	38	46	0.3	2	3.2
Ventnor	opbcb	cporu	41	47	0.3	1	3.0
Portsmouth (S'thsea)	bcb	bcor	40	47	-	0.1	3.4
Bognor Regis	bcb	bbcro	40	47	0.3	0.3	3.2
Littlehampton	bc	bcro	37	47	Trace	0.6	3.5
Worthing	bc	bcr	38	48	-	0.3	3.6
Brighton	bc	bcor	39	48	-	Trace	3.9
Eastbourne	b	bbccor	39	48	-	0.1	5.0
Hastings‡	bcb	bbcco	37	46	0.1	-	5.0
Folkestone	bc	bcc	36	46	Trace	-	5.0
Dover	bc	bcco	39	47	-	-	5.2
Deal	cb	bbc	38	45	-	-	*
Tunbridge Wells	bbc	bcc	36	45	0.3	-	4.4
Ramsgate	b	bbcb	38	52	-	-	5.3
Margate	bc	bc	38	46	-	-	6.5
Southend	b	bcco	37	45	0.2	-	2.2

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T., from an auxiliary station.

† For code see page 1.

‡ See footnote page 4.

‡ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24857 Thursday, 12th December 1929.

Observations at 13h. G.M.T. 11th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of Ground.	Sun. 0-9
Lerwick	984.8	-1	SSE	2	c	43	76	7	1500	StCu	6	ASt	9	•	
Stornoway	980.2	-1	E	2	c	41	85	7	2500	Nb	8	-	8	•	
Wick	982.0	-1	ESE	4	c	44	92	8	1500	Nb	8	ASt	10	•	
Tiree	978.2	0	WSW	3	c	47	97	7	800	StCu	9	-	9	1	
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Aberdeen	981.1	0	SSE	1	fc+	44	97	3	1500	Nb	4	ACu	9	2	
Malin Head	981.3	+2	WSW	5	cd	48	97	6	1500	Nb	7	ACu	8	•	
Renfrew	983.3	0	SSW	1	ffO	40	97	3	450	St	10	-	10	2	
Edinburgh (Inchkeith)	982.6	+1	WSW	1	mo	39	97	4	450	St	10	-	10	•	
Leuchars	982.1	+2	SW	2	cr.	38	92	6	1500	St	4	ASt	10	2	
Eskdalemuir	983.4	+3	SW	6	cd.	45	92	6	1500	StCu	9	-	9	2	
Tynemouth	985.1	+6	W	3	c/r	50	75	6	1500	Nb	9	-	9	•	
Blacksod Point	988.9	+3	SW	8	c	50	75	7	•	CuNb	8	-	8	•	
Donaghadee	983.0	-1	W	7	cr.	48	85	7	4000	CuNb	8	-	8	•	
Birr Castle	994.6	+8	WSW	6	c	50	65	8	2500	Cu	7	CiCu	8	•	
Holyhead	992.8	+5	WSW	8	c	52	75	6	1500	St	9	Ci	9	1	
Liverpool (Bidston)	991.0	+5	W	7	d/pr	50	65	7	1500	Nb	10	-	10	•	
Chester (Sealand)	992.3	+5	WSW	5	c/r	52	65	6	2500	St	8	ASt	9	2	
Harrogate	987.1	+4	SW	8	bcr	47	85	7	2500	Nb	3	-	3	•	
Spurn Head	989.8	+7	WNW	4	c	49	85	6	4000	CuNb	10	-	10	•	
Birmingham (Edgbaston)	996.4	+5	W	6	cr.	50	65	8	1500	Nb	8	-	8	2	
Cranwell	993.1	+5	WSW	6	c	50	75	7	2500	Cu	8	-	8	1	
Gorleston	993.4	+4	W'S	5	bc+	52	85	6	2500	Nb	6	-	6	•	
Valentia (Cahirciveen)	1000.0	+4	SW	6	bc	52	75	8	2500	StCu	6	ACu	7	2	
Roches Point	1000.4	+5	NW	5	bc	51	92	8	2500	CuNb	4	-	4	•	
Pembroke (St. Ann's H.)	998.2	+9	W	10	bc-	52	75	7	4000	StCu	4	ACu	7	•	
Ross-on-Wye	998.4	+5	W'S	6	c	51	65	7	2500	Cu	7	ACu	9	2	
Leafield	998.2	+5	WSW	6	c	49	75	8	2500	Cu	9	-	9	2	
Winchester (Worthy Dn.)	1001.7	+5	W'S	6	cjp	52	65	8	2500	StCu	9	-	9	2	
S. Farnborough	1000.4	+4	W'S	5	c	52	65	6	2500	StCu	7	Ci	8	2	
London (Kew Obsy.)	999.4	+5	WSW	6	c	53	65	7	2500	StCu	8	ACu	9	2	
Croydon	999.9	+3	W'N	6	bc-	53	65	6	1500	StCu	4	Ci	6	2	
Shoeburyness	998.1	+7	W	7	bc+	52	85	8	4000	StCu	7	-	7	•	
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Felixstowe	996.9	+5	WSW	5	bc	53	65	8	2500	Cu	3	Ci	4	1	
Lympne	1000.0	+5	WSW	5	cjp	50	65	7	2500	St	8	ACu	9	2	
Scilly (St. Mary's)	1006.3	+6	W'N	8	c	52	85	6	4000	Cu	5	ACu	8	•	
Falmouth (Pendennis)	1006.6	+6	WNW	8	bc-	53	75	6	4000	StCu	4	ASt	7	•	
Plymouth (Mt. Batten)	1005.9	+4	W	7	c	53	92	6	450	Nb	8	ACu	10	2	
Portland Bill	1003.8	+5	W'S	7	c+	54	65	7	1500	StCu	8	ASt	9	•	
Southampton (Oakshot)	1002.4	+4	W	6	bc	54	55	6	1500	StCu	3	Ci	7	2	
Dungeness	1000.2	+5	W	6	bcr.	52	85	7	2500	CuNb	3	CiCu	7	•	
Guernsey (St. Peter Port)	1009.6	+4	W	5	c	54	75	5	2500	StCu	10	-	10	•	

Observations at 18h. G.M.T. 11th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	984.2	-1	SSE	3	c	43	75	7	1500	StCu	5	ASt	10	•
Stornoway	979.8	-1	NNW	2	c	41	92	7	2500	StCu	10	-	10	1
Wick	980.2	-4	SSE	4	orr	44	97	8	1500	Nb	10	-	10	3
Tiree	983.7	+9	NW	6	c/r	43	85	7	800	StCu	9	ASt	10	6
Nairn	978.2	•	-	0	or+	37	92	5	800	Nb	10	-	10	•
Aberdeen	979.3	-3	SSW	2	orr	41	92	6	1500	Nb	10	-	10	1
Malin Head	987.8	+11	WSW	7	bc/pr	46	85	7	2500	CuNb	5	-	5	7
Renfrew	985.0	+4	SW	8	c	47	75	7	2500	StCu	4	ASt	10	•
Edinburgh (Inchkeith)	980.4	-2	WSW	8	c	47	75	8	1500	St	5	ASt	10	3
Leuchars	980.5	-2	WSW	5	crr	43	92	6	800	Nb	8	ASt	10	•
Eskdalemuir	986.8	+5	WSW	7	c	44	75	8	1500	StCu	9	-	9	•
Tynemouth	988.3	+3	W	6	or.	48	75	7	1500	Nb	10	-	10	3
Blacksod Point	993.2	+6	W	87	b	46	65	7	•	Cu	2	-	2	7
Donaghadee	990.4	+7	W	6	bc/pr	46	75	7	4000	CuNb	4	-	4	3
Birr Castle	997.3	+2	WSW	4	bc-	48	85	8	2500	CuNb	3	-	3	•
Holyhead	997.4	+5	WSW	7	b	50	75	6	2500	St	<1	Ci	1	7
Liverpool (Bidston)	995.1	+3	W	8	bc+	51	55	7	1500	Nb	5	-	5	•
Chester (Sealand)	996.8	+3	WSW	5	bc-	51	65	7	1500	Cu	3	Ci	4	•
Harrogate	994.8	+9	SW	7	bc/r	46	85	7	2500	Nb	5	-	5	•
Spurn Head	993.0	+3	W'N	6	bc-	47	75	7	-	-	0	ASt	4	4
Birmingham (Edgbaston)	1001.1	+3	WSW	5	bc-	48	75	8	-	-	0	Ci	3	•
Cranwell	998.4	+8	WSW	6	b	47	75	7	-	-	0	-	0	•
Gorleston	998.9	+4	W	5	bc-	50	75	6	-	-	0	CiCu	6	1
Valentia (Cahirciveen)	1002.7	+4	SW'W	6	c/pr	50	75	7	1500	St	7	CiSt	9	6
Roches Point	1003.3	+3	W	3	bc	51	97	8	2500	CuNb	24	-	24	5
Pembroke (St. Ann's H.)	1002.8	+5	WSW	8	bc-	53	85	7	2500	Cu	3	ACu	6	7
Ross-on-Wye	1002.8	+4	W'S	5	bcjp	51	66	7	4000	Cu	4	ACu	5	•
Leafield	1002.6	+3	WSW	6	bc	48	75	7	-	-	0	CiSt	7	•
Winchester (Worthy Dn.)	1007.1	+5	SW'W	4	bc	50	75	7	-	-	0	ACu	7	•
S. Farnborough	1006.4	+6	WSW	4	bc	49	75	7	2500	StCu	7	-	7	•
London (Kew Obsy.)	1005.7	+8	WSW	5	c	51	65	7	-	-	0	ACu	8	•
Croydon	1005.9	+9	W	6	bc	50	75	6	-	-	0	ACu	5	•
Shoeburyness	1004.4	+10	W	7	bc	50	85	8	-	-	0	ACu	4	•
Clacton-on-Sea	1002.7	+4	W	5	bc	50	75	7	-	-	0	CiSt	6	4
Felixstowe	1003.0	+8	WSW	5	c	51	65	7	1500	StCu	3	ASt	9	4
Lympne	1006.1	+9	SW'W	4	b-	48	75	6	1500	StCu	2	-	2	•
Scilly (St. Mary's)	1009.4	+2	W	7	c	52	97	6	4000	Cu	5	ACu	9	7
Falmouth (Pendennis)	1010.2	+4	W'N	6	c+	52	85	6	4000	StCu	8	-	8	4
Plymouth (Mt. Batten)	1010.4	+3	WSW	4	c	52	97	6	1500	Nb	10	-	10	4
Portland Bill	1008.4	+3	WSW	7	c+	53	85	7	2500	StCu	10	-	10	8
Southampton (Oakshot)	1008.1	+5	W'S	5	c	52	75	7	4000	StCu	4	ACu	8	3
Dungeness	1005.9	+6	WSW	7	bc-	51	85	8	1500	Cu	2	CiCu	4	6
Guernsey (St. Peter Port)	1014.0	+4	WSW	4	bc	53	85	5	4000	StCu	6	-	6	6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (To-day.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.
Kew	18	cb c	c	bc r bbc	54	46	41	0·1	3	0·3	•	•	6
Croydon	244	c b c/pr	bc mg	c/r bc	53	46	42	5	2	0·6	•	•	6
Greenwich (Royal Obsy.)	149	c q	cbc	c/r bc r b	53	40	36	-	4	1·2	60	97	5
City (Bunhill Row)	30		•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	54	42	39	2		0·1			•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0·0	•	•	•
Camden Square	110	c	c	•	53	41	•	4	-	•	•	95	•
Kensington Palace	80	bc	bc	•	53	40	39	-	3	•	(At 18h.) 95	93	•
Hampstead Observatory	450	•	•	•	51	37	35	Tr	2	0·2	•		•

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·6	11th 11h.	<0·3	0-6h. 12th

Kew Observatory Max.	Time.	Min.	Time.
0·1	11th 9-12h.	<0·1	rest of period

POLE STAR RECORD at Greenwich Obsy.

Exposure from 11th 17 h. m. to 12th 7 h. m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 0	12 13	87
δ Ursae Minoris	14·0	11 16	80

CODE FOR STATE OF GROUND.

0=Dry ground. 1=Wet ground. 2=Soft (muddy) wet ground. 3=Bare ground frozen (but less than 2 ins. deep). 4=Bare ground frozen (but more than 2 ins. deep). 5=Dew (or wet grass but not wet ground). 6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports). 7=Snow (thin layer often not continuous). 8=Snow (deep, impeding traffic, usually a continuous layer). 9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

January December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·57	11·47	15·36
	7·58	11·47	15·36
Greenwich	7·58	11·54	15·49
	7·59	11·54	15·49
Wick	8·55	12·06	15·16
	8·57	12·06	15·16
Valentia	8·42	12·35	16·27
	8·43	12·35	16·27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud). bc sky partly cloudy (one half covered). c generally cloudy

d drizzle. e wet air. g gloomy. f fog, visibility 200—1000 m. F thick fog, " less than 200 m. m mist, " 1000—12000 m. h hail. i intermittent. jp precipitation within sight of station. KQ line squall. l lightning. o overcast sky. p passing showers. q squally. r rain. s snow. rs sleet. t thunder. u ugly, threatening sky. v unusual visibility. w dew.

z hoar frost. y dry air. x 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. R = heavy rain. r_o = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).

⊖ = solar halo. ☾ = lunar halo.

With present weather is combined, wherever 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.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell, 1=mod. swell, 2=heavy swell } Calm or slight sea.
3=no swell, 4=mod. swell, 5=heavy swell } Moderate sea.
6=rather rough sea. 7=rough sea. 8=very rough sea. 9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
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.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 11th	18h.-18h. 11th	18h. 11th to 1h. 12th	1h.-7h. 12th	TEMPERATURE. MAX. Day. Th.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 11th Hours.
Lerwick	bcc	coir.	coir.	cir.q	44	42	.	Tr.	15.30	2	<21.00	0.0
Stornoway	c	c	cor	oRRbc	42	38	.	-	-	11	<21.00	0.0
Wick	d.PR	corr	orrir	ir.oRR	45	39	.	4	<8.00	15	<21.00	.
Tiree	pr	rr	ir	irrr	47	41	36	4	<8.00	5	22.00	0.0
Nairn	bcdc	crro	orr	rc	37	37	.	3	11.00	5	<21.00	0.2
Aberdeen	coircf	cr.orrm	orrcirc	c	44	40	38	3	<8.00	3	<21.00	0.0
Malin Head	cmdcirm	cDmbcqpr	bcqlihrq	.oQir	49	40	.	3	<8.00	7	<21.00	0.1
Renfrew	or.Doff	forcq	cq.cirq	cRq	48	40	38	5	<8.00	13	22.00	0.0
Edinburgh (Inchkeith)	orr.mm	ommrrc	cr	cprbc	47	41	39	3	<8.00	3	<21.00	0.0
Leuchars	orrbecr.	cir.cr	or.cbcm	bcq	43	38	34	2	<8.00	0.2	<21.00	0.6
Eskdalemuir	cr.cid.	or.r.c	cr.c	crr	45	35	35	5	<8.00	17	22.00	0.0
Tynemouth	bcffoir.	coir.j	obcp.q	bc p.q	51	43	39	1	9.00	0.4	<21.00	.
Blacksod Point ...	pqc	beqd	phqc	phqc	51	(40)	.	1	.	3	.	.
Donaghadee	cq.ir.	bcp.r	bcp.r	ocqb	50	39	.	1	<8.00	2	<21.00	.
Birr Castle	oircq	cbccprbc	ci Rq	cirl	51	40	36	1	<0800	3	<21.00	2.2
Holyhead	cprc	cbcb	bprbcbqbc	bcbqL	53	43	41	Tr.	9.00	2	<21.00	0.3
Liverpool (Bidston) ...	Q cp.	cQby	bcqr.	bcq.r.	51	42	40	Tr.	<8.00	2	22.00	0.0
Chester (Sealand) ...	cd.rr.z.	cbcbqyz.	bc PRq	bcy prqL	53	44	40	0.1	9.00	1	22.00	0.2
Harrogate	cbiRQ	cbir	cbq.phr	cbqphr	48	39	36	2	<8.00	45	<21.00	1.0
Spurn Head	c	cbcq	bcpRq	cbccprq	50	41	.	-	-	2	22.00	0.3
Birmingham (Edgbaston)	cpr.	cprbc	bccp.r	cp.r	50	42	40	1	9.00	1	22.00	0.0
Cranwell	cir.c	cbcb	bbcb	bq	50	42	40	0.1	<8.00	-	-	1.6
Gorleston	bcq	bccq	bcbq	or.bcq	52	45	43	-	-	0.3	02.30	1.8
Valentia (Cahirciveen)	cq.bc	bccpcpc	phq	cphrqbc	53	42	39	1	16.30	4	<21.00	2.7
Roches Point	bcpbc	bcb	bbc	bcpQbc	52	43	.	0.1	9.00	4	04.30	.
Pembroke (St. Ann's H.)	cprbcc	bcpc	cpq.bc	bccfq	53	45	.	3	<8.00	1	22.00	0.0
Ross-on-Wye	cqpbccq	cq	bcq	cqqqqbb	52	41	38	0.2	9.00	1	06.20	0.9
Leafield	rcq.ir.	c	cP	cbcL	49	42	38	0.2	<8.00	3	24.00	0.1
Winchester (Worthy Dn.)	crcPRq	cbc	bcc	cprbcl	52	45	41	5	9.00	0.4	02.30	0.4
S. Farnborough ...	berrRRc	c	bcb	bpr.b	53	45	40	2	<8.00	0.6	01.30	0.5
London (Kew Obsy.) ...	cp.c	c	bc	bcrbbc	54	46	41	0.1	<8.00	3	01.30	0.3
Croydon	cRbcprq	bccbcmq	occm.	cPrbc	53	46	42	5	<8.00	2	01.30	0.6
Shoeburyness	cbcbbc	bcq	bcq	crbcq	54	46	43	-	-	1	02.30	1.7
Clacton-on-Sea ...	bccpbc	bc	bc	bcb	53	46	42	Tr.	<8.00	-	-	2.9
Felixstowe	bcprbbc	bccq	cbc	bcb	53	47	43	Tr.	<8.00	-	-	5.2
Lympne	cpRorprpc	cbc	occm.	cbcb	52	46	41	5	<8.00	-	-	2.0
Scilly (St. Mary's) ...	bccm	cm.	cm.bc	bcp.	53	50	.	-	-	Tr	02.30	0.0
Falmouth (Pendennis)	cbcmq	bccmq	cq	bcp	54	49	.	-	-	-	-	0.0
Plymouth (Mt. Batten)	crbqm.	cqm.	ocm.	cbqmL	54	49	47	Tr.	<8.00	-	-	0.0
Portland Bill	cp.c	o	bc	bc	54	48	.	0.5	<8.00	-	-	.
Southampton (Calshot)	bccprbc	bcyqz.c	cbcbbcb	b-bc	54	47	44	0.3	<8.00	-	-	0.9
Dungeness	cqrcr	cbcq	bcc	cbcbq	53	47	.	0.5	<8.00	-	-	.
Guernsey	bcco	coc	ocbc	cqprc	55	50	47	-	-	1	0430	0.0

BALLOBARS

POSITION NUMBERS

Observations from Cross Channel Steamers

Position	Date and Time	Steamship	Wind Direc.	Wind Force	Weather	Temp Air	Temp Sea	
2	11th 10h	Scotia	W'S	6	c+	51	52	7
3	12th 2h	Aronda	W	6	c	51	52	7

GENERAL DIFFERENCE

A depression centred near Southern Norway is moving east. Though there is no definite indication of the very early approach of further disturbances from the Atlantic prospects are uncertain. Weather will be of a showery type with a tendency for thunder and hail locally, but there will be bright periods. Temperature will be somewhat lower than of late.

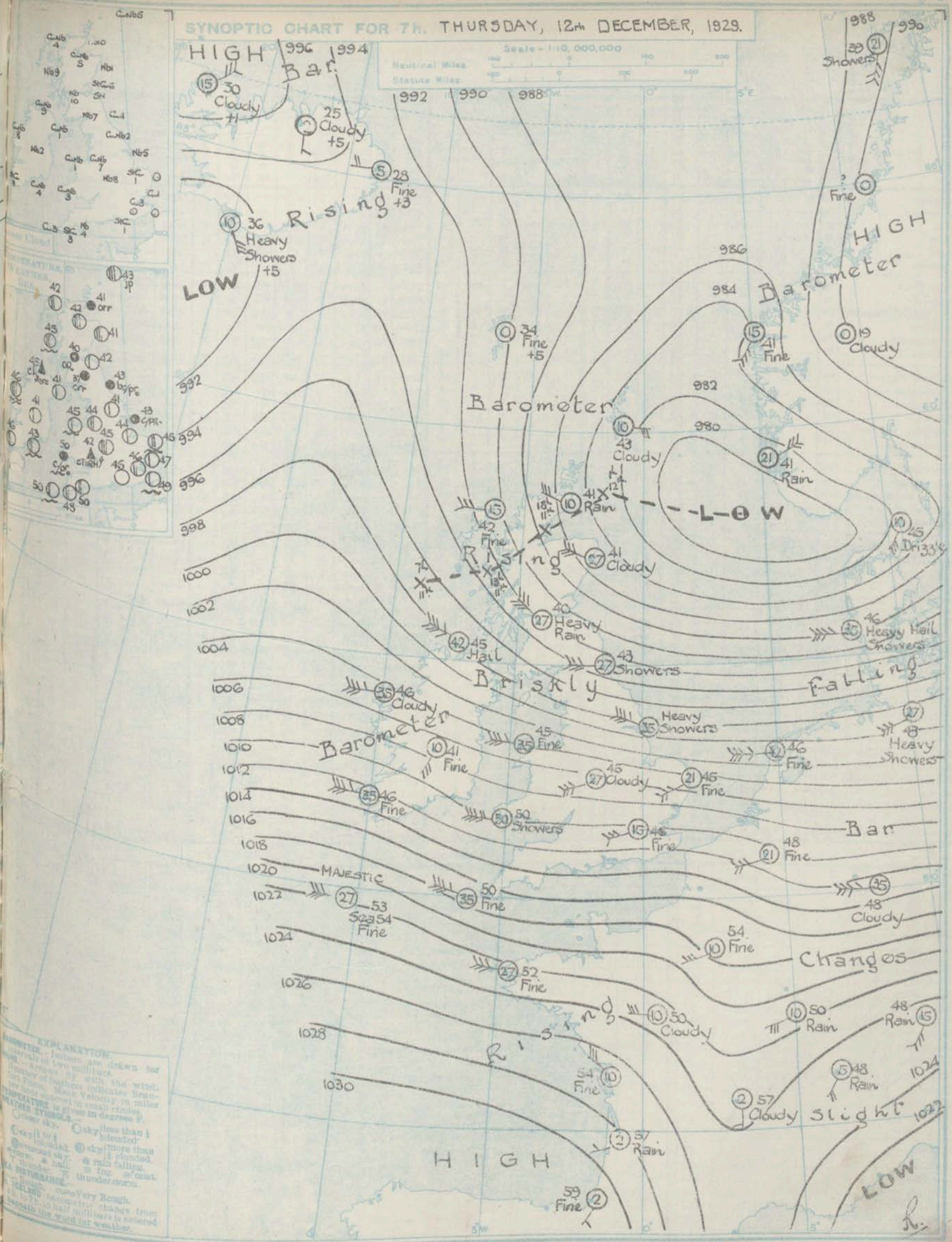
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 12th December, 1929.	Further Outlook
1. S.E. England ▼		
2. E. England ▼	ALL DISTRICTS	None issued
3. E. Midlands		
4. W. Midlands		
5. S.W. England ▼	Wind westerly, fresh to gale, moderating; showers, perhaps of a wintry type and with thunder locally; bright periods; moderate temperature; tendency for frost locally tonight.	
6. South Wales ▼		
7. North Wales ▼		
8. N.W. England ▼		
9. N. Midlands		▼ South Cone still flying.
10. N.E. England ▼		
11. S.E. Scotland ▼		
12. S.W. Scotland ▼ Isle of Man		
13 A W. Scotland B N.W. Scotland		
14. Mid-Scotland		
15. N.E. Scotland		
16. Orkneys and Shetlands		
17. N.W. Ireland ▼		
18. N.E. Ireland ▼		
19. S.E. Ireland ▼		
20. S.W. Ireland ▼		

H.W.Ph

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

Tr = rain has fallen, but amount less than 0.1 mm.


SYNOPTIC CHART FOR 7h. THURSDAY, 12th DECEMBER, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
Bar.
Rising
LOW
Barometer
HIGH
Barometer
LOW
Briskly
Falling
Barometer
Bar
MAJESTIC
Changes
Rising
Slight
HIGH
LOW
Showers
Fine
Cloudy
Heavy Showers
Heavy Rain
Heavy Hail Showers
Hail
Rain
Drizzle
Heavy Showers
Heavy Rain
Fine
Cloudy
Showers
Heavy Showers
Heavy Showers
Heavy Rain
Rain
Cloudy
Rain
Rain
Cloudy
Cloudy
Fine
Fine
Fine

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 12th December 1929. No. 346.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 12th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-1
Lerwick	36	9 0	-1	E'S	4	c	44	85	7	1500	StCu	5	ACu	9	•
Stornoway	88	989.9	+4	NNW	3	c/r	*	*	6	*	*	*	*	10	2
Wick	81	979.9	+1	WNW	2	or	40	97	8	1500	Nb	10	-	10	0
Tiree	28	*	*	*	*	*	*	*	*	*	*	*	*	*	6
Nairn	25	*	*	*	*	*	*	*	*	*	*	*	*	*	10
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	8
Malin Head	81	990.2	+1	W	8	cr	44	92	6	2500	Nb	7	ASt	10	9
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	10
Edinburgh (Inchkeith)	100	986.9	+6	WSW	8	cr	41	85	8	800	St	9	-	9	•
Leuchars	82	*	*	*	*	*	*	*	*	*	*	*	*	*	3
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	2
Tynemouth	67	991.4	+2	W	6	bc/pr	46	65	8	4000	Cu	4	-	4	•
Blacksod Point ...	48	998.7	+2	W	8	c	44	75	6	*	CuNb	10	-	10	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	3
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Holyhead ...	36	1001.5	+3	W'S	8	bc/pr	47	75	7	2500	Cu	5	Cu	5	1
Liverpool (Bidston) ...	180	*	*	*	*	*	*	*	*	*	*	*	*	*	7
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	2
Spurn Head	26	997.2	+1	WNW	6	c/pr	47	75	7	4000	CuNb	4	ASt	8	9
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	8
Cranwell	266	1000.7	+3	W'S	6	b	47	76	5	2500	StCu	1	-	1	•
Gorleston	14	1001.8	0	SW'W	5	bc	49	92	7	4000	Cu	4	-	4	1
Valentia (Cahirciveen)‡	30	1007.2	+3	W	7	c/PR	47	97	5	*	CuNb	8	-	8	3
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	4
Pembroke (St. Ann's H.)	150	1006.3	+3	WSW	8	bc-	50	75	7	4000	StCu	3	-	3	6
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*	7
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Winchester (Worthy Park)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	•
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	•
London (Kew Obsy.) ...	18	*	*	*	*	*	52	*	*	*	*	*	*	*	•
Croydon	344	1007.6	0	WSW	6	c+	52	75	6	2500	StCu	9	-	9	•
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Clacton-on-Sea ...	64	*	*	*	*	*	*	*	*	*	*	*	*	*	1
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Lympne	369	1008.4	0	SW	5	0	50	85	6	1500	St	10	-	10	0
Scilly (St. Mary's) ...	108	1014.2	+2	WNW	7	bc	51	85	8	4000	Cu	2	CCu	4	3
Falmouth (Pendennis)	200	1013.1	+4	W'N	7	bc-	52	85	7	4000	Cu	7	-	7	5
Plymouth (Mt. Batten)	88	*	*	*	*	*	*	*	*	*	*	*	*	*	4
Portland Bill	33	1009.2	+1	WSW	7	bc	53	85	7	1500	StCu	6	ASt	7	5
Southampton (Calshot)	10	1010.1	+1	WSW	6	b	52	85	7	-	-	0	CSt	1	1
Dungeness	30	1007.6	+2	WSW	7	c+	52	92	7	1500	StCu	8	-	8	2
Guernsey (St. Peter Port)	173	1016.2	+4	WSW	4	bc	53	85	5	2500	StCu	4	ACu	6	8

Stations.	Observations at 7h. G.M.T. 12th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-1
Lerwick	982.4	+3	E	3	c/p	43	85	7	1500	CuNb	5	ASt	8	•
Stornoway	990.3	+7	W	4	bc	42	85	7	4000	CuNb	4	-	4	2
Wick	989.2	+8	WNW	3	or	41	97	8	1500	Nb	10	-	10	0
Tiree	994.1	+7	NW	7	c/r	45	85	6	1500	Nb	9	ASt	10	6
Nairn	989.0	*	W	2	c	42	85	7	1500	CuNb	8	-	8	•
Aberdeen	986.0	+6	WNW	6	c	41	85	8	1500	Nb	1	ASt	10	4
Malin Head	997.6	+7	~~S~~W	8	ch(r)	45	85	6	2500	CuNb	9	-	9	8
Renfrew	995.0	+7	NW	6	cR	40	92	7	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	990.2	+6	WSW	6	b	42	85	8	1500	St	1	ACu	2	3
Leuchars	988.6	+6	W'S	5	bc+	41	85	8	2500	StCu	6	-	6	•
Eskdalemuir	994.8	+5	W	6	crr	37	92	7	1500	Nb	7	ASt	10	•
Tynemouth	993.1	+2	W	6	bc/pr	43	75	8	1500	Cu	4	-	4	3
Blacksod Point ...	1004.2	+5	W	7	c	46	65	7	*	CuNb	8	-	8	8
Donaghadee	999.2	+6	WSW	3	b+	41	85	7	4000	CuNb	1	-	1	3
Birr Castle	1007.1	+4	SW	3	b-	41	85	7	2500	Nb	2	-	2	•
Holyhead ...	1004.8	+4	W	7	b	45	75	8	4000	CuNb	1	-	1	7
Liverpool (Bidston) ...	1002.5	+4	W'N	8	bc/r	44	92	7	1500	CuNb	7	-	7	•
Chester (Sealand) ...	1003.4	+3	W's	7	bc/pr	45	65	8	2500	CuNb	4	-	4	•
Harrogate	998.5	+1	WSW	7	b	41	85	7	2500	CuNb	2	-	2	•
Spurn Head	998.9	0	WNW	7	c/PR-	43	85	7	4000	Nb	5	ASt	9	4
Birmingham (Edgbaston)	1007.2	+1	WSW	6	c	45	65	8	1500	Nb	8	-	8	•
Cranwell	1002.6	0	WSW	6	b	43	65	7	2500	StCu	1	-	1	•
Gorleston	1002.5	+1	WSW	5	bc	45	55	8	-	-	0	CCu	4	•
Valentia (Cahirciveen)‡	1013.4	+7	W	7	bc	46	75	8	2500	StCu	3	-	3	•
Roches Point	1013.4	+5	NW	4	bc	43	97	8	1500	Nb	4	-	4	6
Pembroke (St. Ann's H.)	1009.2	+2	W	9	c/pr	50	85	7	1500	CuNb	3	ASt	8	7
Ross-on-Wye	1009.9	+3	WN~~W~~	8	ETLR	42	75	6	2500	CuNb	7	-	7	•
Leafield	1008.6	+3	WSW	5	c+	45	75	8	4000	CuNb	8	-	8	•
Winchester (Worthy Park)	1012.6	+3	WSW	4	b	45	75	7	2500	StCu	1	-	1	•
S. Farnborough ...	1011.5	+3	W	4	b	45	75	8	-	-	0	-	0	•
London (Kew Obsy.) ...	1010.8	+2	WSW	4	bc+	46	75	8	2500	Cu	3	CSt	4	•
Croydon	1011.0	+2	W'S	5	b	46	75	6	-	-	0	-	0	•
Shoeburyness	1007.3	+2	W	4	b	47	85	7	-	-	0	-	0	4
Clacton-on-Sea ...	1008.0	+3	WNW	5	b	47	75	7	2500	Cu	1	-	1	6
Felixstowe	1007.7	+4	WSW	5	b	47	65	8	-	-	0	-	0	•
Lympne	1010.7	+4	W'S	5	b	46	65	7	-	-	0	-	0	•
Scilly (St. Mary's) ...	1017.6	+2	W'N	7	bc	50	85	7	4000	Cu	3	-	3	7
Falmouth (Pendennis)	1017.4	+4	W'N	7	bc-	48	75	7	4000	StCu	3	-	3	4
Plymouth (Mt. Batten)	1016.4	+2	W	6	bc	50	97	6	2500	Nb	4	-	4	5
Portland Bill	1013.2	+2	WSW	8	bc	51	75	7	1500	StCu	4	ASt	5	6
Southampton (Calshot)	1012.4	+2	W'S	5	b	47	65	7	4000	StCu	1	-	1	3
Dungeness	1011.4	+4	WSW	7	b+	49	85	8	-	-	0	ACu	2	6
Guernsey (St. Peter Port)	1020.4	+6	~~ENE~~ W	5	c	51	75	7	2500	StCu	8	-	8	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 11th DECEMBER 1929

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-10th to 9h. 11th	Temperature. Max. 9h.-17h. 11th	Rainfall†. Night 17h.-9h. 10th-11th	Rainfall†. Day 9h.-17h. 11th	Sunshine. Sunrise to Sunset. 11th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	cro	dro	36	48	5	2	0.0
Douglas (I. o. M.) ...	cdr	cbc	38	50	9	Trace	0.5
Llandudno ...	crq	qcbc	39	61	1	3	0.0
Colwyn Bay ...	coro	cocb	38	52	4	2	0.0
Rhyl	pbc	cbc	38	52	4	0.5	0.0
Wallasey	iroc	cbcb	39	50	2	Trace	0.0
Southport	oro	oco	39	50	4	1	0.0
Blackpool	oro	po	39	50	7	0.3	0.0
Morecambe ...	ro	oro	36	49	5	0.5	0.0
Ilkley	or	cpc	36	49	11	2	0.0
Cleethorpes	oc	oc	36	50	3	-	0.3
Mablethorpe ...	bcob	cb	36	52	4	Trace	1.8
Skegness	oprc	cb	37	51	4	-	3.6
Aberystwyth ...	rnicq	cbc	42	52	5	-	0.0
Bath	cpo	cbec	40	53	5	Trace	0.1
Cheltenham ...	orc	bbc	41	53	3	0.3	0.3
Leamington Spa ...	co	proc	40	52	3	0.2	0.0
Lowestoft	cbcb	bcc	38	52	3	-	2.9
Harwich & Dovercourt	rbc	bc	39	53	3	-	5.0
Maldon	cb	bc	38	53	3	-	2.1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	co	o	42	54	16	-	0.0
Bude	rocq	cq	41	53	10	-	0.0
St. Ives	c	c	42	53	13	-	1.5
Penzance	c	c	45	54	10	-	0.5
Paignton	orrq	opcqbc	40	54	8	Trace	0.1
Torquay	cqjp	coqjp	41	55	7	-	0.0
Jersey	rco	cobc	45	56	4	0.6	0.1
Weymouth	cpc	cb	44	55	5	0.4	0.0
Bournemouth ...	o	cocm	39	54	7	-	0.3
Ventnor ...	orcp	ocu	42	53	12	0.3	0.6
Portsmouth (S'thsea)	ber'b	bbc	41	54	7	1	1.1
Bognor Regis ...	bcPR	bcco	42	54	7	1	0.6
Littlehampton ...	cpbc	bcc	40	54	8	0.3	0.4
Worthing	c'rc	c	41	54	11	0.3	0.3
Brighton	cpcbc	bc	41	53	12	0.4	0.2
Eastbourne	bcirc	cbcb	46	54	18	1	0.3
Hastings	bcc	cbcb	43	54	16	-	1.6
Folkestone	corc	c	38	53	14	4	1.2
Dover	bcorqc	crqbc	40	54	15	5	1.5
Deal	cbc	bcc	39	53	9	-	1.9
Tunbridge Wells ...	orbc	cbc	38	52	15	3	2.6
Ramsgate	bc	bcc	46	54	5	-	1.9
Margate	bc	bc	41	54	6	-	2.0
Southend	bbc	bcb	39	53	4	-	1.4

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* Information not usually received. ‡ The observations at 1h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 9h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24858 FRIDAY, 13th DECEMBER, 1929.

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Observations at 13h. G.M.T. 12th														
Lerwick	992.7	+11	NW	1	c	42	85	8	1500	StCu	3	ASt	8	*
Stornoway	999.1	+8	WSW	4	cr.	42	85	7	1500	Nb	9	-	9	*
Wick	996.5	+2	WNW	3	bc	42	92	8	1500	CuNb	3	ASt	6	*
Tiree	1002.9	+8	WNW	7	bc	49	75	6	2500	CuNb	7	-	7	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	998.2	+13	WNW	5	c-	43	75	8	2600	Cu	1	ASt	9	2
Malin Head	1008.1	+10	W	6	ch(r)	45	85	7	2500	CuNb	8	-	8	*
Renfrew	1004.2	+7	WSW	5	bc-	45	85	7	2500	CuNb	4	Ci	5	2
Edinburgh (Inchkeith)	1001.7	+12	W	5	bc	45	75	8	800	St	1	ACu	4	*
Leuchars	1000.5	+12	W'N	5	bc	45	65	8	4000	StCu	2	Ci	4	2
Eskdalemuir	1004.5	+10	W	6	bc/pr	41	75	8	1500	StCu	5	Ci	6	2
Tynemouth	1001.8	+10	W	5	bc	45	75	6	2500	Cu	3	Ci	4	*
Blacksod Point	1013.1	+4	W	6	c	48	66	7	*	-	0	ASt	10	*
Donaghadee	1008.5	+7	W	4	bc	45	75	7	4000	StCu	5	-	5	*
Birr Castle	1016.4	+6	WSW	2	c	44	85	7	4000	StCu	10	-	10	*
Holyhead	1012.0	+6	W	9	c+	47	85	7	1500	St	1	ASt	9	1
Liverpool (Bidston)	1010.8	+8	WNW	8	c+	45	75	7	1500	StCu	9	-	9	*
Lancaster (Sealand)	1011.6	+9	W'N	7	bc	47	65	7	2500	Cu	4	Ci	6	2
Harrogate	1004.2	+4	W	10	b	44	75	8	4000	Cu	1	-	1	*
Spurn Head	1003.0	+3	NW'W	8	bc	46	75	7	4000	StCu	4	ACu	7	*
Birmingham (Edgbaston)	1013.5	+8	WNW	5	bc	45	65	8	2600	Cu	4	-	4	2
Cranwell	1009.1	+8	W	7	c	43	65	8	2500	StCu	9	-	9	1
Gorleston	1007.2	+4	W'N	5	bc	47	85	6	4000	Cu	4	-	4	*
Valentia (Cahirciveen)	1021.1	+6	SW'W	5	c	50	75	8	2500	St	10	-	10	2
Roches Point	1020.2	+9	NW	5	c	50	92	8	2500	CuNb	8	-	8	*
Pembroke (St. Ann's H.)	1018.1	+5	W	8	bc-	49	85	7	1500	Cu	2	ACu	4	*
Ross-on-Wye	1016.1	+8	W'N	7	bc	47	65	8	4000	Cu	2	CiSt	6	2
Lesfield	1014.7	+4	W'N	7	bc/pr	43	65	9	4000	Cu	2	CiSt	3	2
Winchester (Worthy Dn.)	1017.3	+7	W'N	7	bc	48	55	8	4000	StCu	3	Ci	4	2
S. Farnborough	1015.6	+5	W	6	c	49	55	7	1500	StCu	8	Ci	9	2
London (Kew Obsy.)	1014.8	+5	W	5	c	48	66	8	2500	StCu	9	-	9	2
Croydon	1015.3	+5	WNW	6	c+	47	65	7	2500	StCu	9	-	9	2
Shoeburyness	1013.1	+3	WNW	6	bc/h	47	85	8	4000	Cu	5	-	5	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1010.5	+2	W	6	bc	47	65	8	4000	Cu	5	-	5	1
Dover	1014.0	+2	W'N	6	bc-	49	65	8	2500	Ci	6	-	6	2
Scilly (St. Mary's)	1025.0	+9	NW'W	6	b-	52	85	6	4000	Cu	2	-	2	*
Falmouth (Pendennis)	1024.4	+5	WNW	8	bc	52	65	7	4000	StCu	3	-	3	*
Plymouth (Mt. Batten)	1023.0	+8	WNW	7	b	52	85	8	2500	Cu	2	-	2	2
Portland Bill	1018.8	+5	W'S	8	bc	51	75	8	2500	Cu	4	-	4	*
Southampton (Calshot)	1018.7	+6	WNW	6	bc/pr	48	65	8	1500	StCu	3	Ci	5	1
Dungeness	1014.0	+2	W	7	bc+	42	75	8	2500	Cu	3	ACu	5	*
Guernsey (St. Peter Port)	1025.6	+7	W	5	bc/r	51	85	6	2500	StCu	4	-	4	*

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Observations at 18h. G.M.T. 12th														
Lerwick	999.6	+9	WNW	2	bcjp	40	92	8	1500	CuNb	3	ASt	7	*
Stornoway	1005.0	+8	W	3	bc-	36	92	7	4000	CuNb	3	-	3	2
Wick	1002.6	+6	WNW	2	bc	38	92	8	1500	CuNb	2	ACu	5	0
Tiree	1003.5	+7	WNW	6	bc	46	75	7	2500	StCu	5	CiSt	7	6
Nairn	1005.1	*	WNW	1	bc-	38	86	8	2500	Cu	4	-	4	*
Aberdeen	1005.8	+9	W	3	b	40	85	8	-	-	0	ACu	1	1
Malin Head	1012.7	+7	W	6	cjp	47	75	7	4000	CuNb	9	-	9	7
Renfrew	1010.4	+7	WSW	5	cr	45	85	6	1500	CuNb	8	-	8	*
Edinburgh (Inchkeith)	1008.3	+6	W	5	bc/r	44	75	8	1500	St	2	ACu	6	2
Leuchars	1007.4	+9	W'N	4	bc	41	75	8	4000	CuNb	3	Ci	4	*
Eskdalemuir	1012.2	+7	W'S	5	c	41	75	8	1500	StCu	8	-	8	*
Tynemouth	1010.2	+8	W	4	bc	44	86	7	2500	Cu	3	Ci	4	3
Blacksod Point	1014.3	+2	S	1	ORR	47	92	7	*	Nb	10	-	10	5
Donaghadee	1014.7	+7	W	4	c	45	75	7	4000	StCu	8	-	8	3
Birr Castle	1018.5	+1	SW	2	cr.	46	92	7	2500	Nb	3	ASt	10	*
Holyhead	1018.3	+5	W'S	6	c	49	85	7	4000	St	5	ASt	10	6
Liverpool (Bidston)	1017.7	+6	WNW	6	c	47	66	7	1500	Nb	10	-	10	*
Lancaster (Sealand)	1017.9	+5	W	5	c+	47	66	6	2500	St	9	ASt	10	*
Harrogate	1014.7	+9	WSW	5	bc	44	85	7	4000	Cu	6	-	5	*
Spurn Head	1013.0	+6	NW'W	7	bc-	45	85	7	-	-	0	CiSt	5	5
Birmingham (Edgbaston)	1020.4	+6	W	4	bc+	45	65	8	-	-	0	ACu	7	*
Cranwell	1017.2	+8	W	6	bc	44	75	7	2500	StCu	2	ACu	4	*
Gorleston	1015.4	+11	WNW	4	bc	45	75	7	4000	Cu	6	-	6	1
Valentia (Cahirciveen)	1021.5	+1	S'W	6	bc	51	85	8	1500	StCu	2	ACu	3	4
Roches Point	1022.7	+3	W	3	bc	50	97	8	2500	StCu	5	-	5	5
Pembroke (St. Ann's H.)	1022.2	+4	W	6	c/pr	51	97	7	1500	CuNb	9	-	9	5
Ross-on-Wye	1022.1	+7	W	4	c	48	65	8	4000	Cu	2	ASt	10	*
Lesfield	1020.7	+6	W	5	bc	43	65	8	7200	StCu	4	-	4	*
Winchester (Worthy Dn.)	1022.4	+6	W	4	bc	45	75	7	-	-	0	CiSt	4	*
S. Farnborough	1022.6	+7	W'S	4	b	45	75	7	-	-	0	ACu	2	*
London (Kew Obsy.)	1022.7	+9	W	2	bc	45	65	7	-	-	0	ACu	3	*
Croydon	1022.4	+8	W'N	4	bc+	45	65	6	-	-	0	ACu	3	*
Shoeburyness	1020.8	+10	W	6	bc	45	86	8	-	-	0	CiSt	4	*
Clacton-on-Sea	1018.6	+9	WNW	5	bc	45	75	7	2500	Cu	3	-	3	4
Felixstowe	1018.2	+8	W	5	b	46	65	8	-	-	0	-	0	6
Lympne	1021.1	+5	W	5	bc+	44	65	8	-	-	0	CiCu	4	*
Dover	1028.5	+3	W'N	6	b	50	97	6	4000	Cu	2	-	2	5
Scilly (St. Mary's)	1028.7	+3	WNW	5	bc-	51	85	7	4000	StCu	3	CiCu	5	2
Falmouth (Pendennis)	1027.6	+3	SW	4	c+	51	92	8	4000	StCu	8	ACu	9	5
Plymouth (Mt. Batten)	1023.9	+6	W	7	bc	52	75	8	4000	StCu	5	ACu	6	7
Portland Bill	1024.1	+6	W'S	4	bc	46	75	7	-	-	0	CiSt	5	0
Southampton (Calshot)	1021.5	+9	WNW	6	bc+	46	75	8	-	-	0	CiCu	6	4
Dungeness	1030.0	+6	WNW	4	bc	52	85	5	2500	StCu	6	-	6	5
Guernsey (St. Peter Port)														

London Observations

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 8h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 18h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility
Kew	18	c|p|p|p|p	c b c b	p x m c m	48	44	39	5	Tr	2.0	*	*	6
Croydon	244	p R R p|p	c b z.	c b c m b2	48	45	40	2	-	1.4	*	*	6
Greenwich (Royal Obsy.)	149	c r b c	b c m b	m. b b c w	47	44	33	1	Tr	0.8	58	85	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.4	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	48	41	35	2		1.1	63	86	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	1.4	*	*	*
Camden Square	110	o p r b	c	*	47	41	*	2	-	*	*	91	*
Kensington Palace	80	b c b	b c	*	48	45	37	1	-	*	(At 18h. 99) 87	*	*
Hampstead Observatory	450	*	*	*	45	41	34	2	-	2.4	*	91	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	0.8	12h 19m	<0.3	1-6h 13th
Kew Observatory	0.1	12h 21h	<0.1	1-6hr 13th

Pole Star Record at Greenwich Obsy.

Exposure from 13th ... 17h. G.M.T. to 14th ... 7h. G.M.T.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 0	10 16	73
δ Ursae Minoris	14 0	9 22	67

Code for State of Ground.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Rare ground frost (but less than 2 ins. deep).
4=Rare ground frost (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Rime to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed frost (ice on roads from frozen rain or melted snow).

Table showing the Greenwich Times of Sunrise, Noon, and Sunset.

13th December, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.58	11.47	15.36
	7.59	11.48	15.36
Greenwich	7.59	11.54	15.49
	8.0	11.55	15.49
Wick	8.57	12.6	15.16
	8.58	12.7	15.16
Valentia	8.43	12.35	16.27
	8.44	12.36	16.27

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet t thunder.
u ugly, threatening skys
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.
R = heavy rain. ro = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). { before (for precipitation).
⊕ = solar halo. ☿ = lunar halo.

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

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

Sea Disturbance.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

§ Telegraphic Code for Surface Visibility.

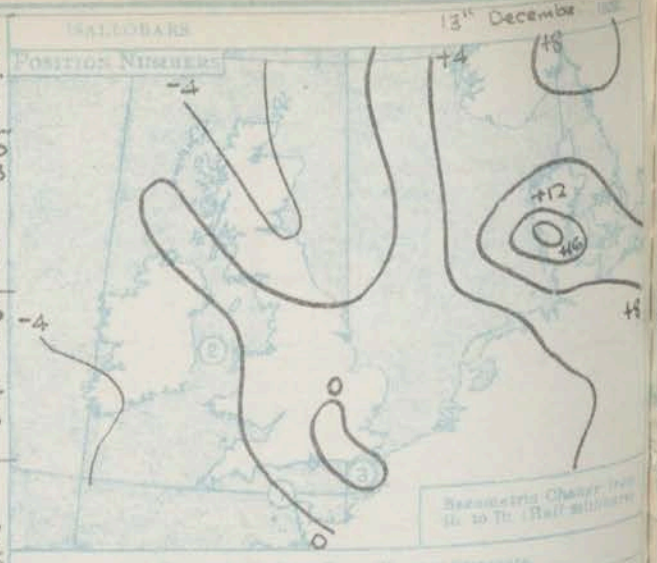
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS

Stations.	Weather. 7h.-18h. 12th	Weather. 18h.-18h. 12th	Weather. 18h. 12th to 1h. 13th	Weather. 1h.-7h. 13th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm.	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Night. 18h.-7h. began.	Sun 12th Hours.
Lerwick	cir.	cbcir.	bcir.	bccir.	43	38	•	1	<8.00	2	<21.00	0.0
Stornoway	p	p	c	p	42	33	•	7	<8.00	1	02.30	0.3
Wick	orrbc	prbc	b-bc	bcorr	43	34	•	6	<8.00	1	05.30	•
Tiree	pH	pr.	cr	rRc	49	42	40	3	<8.00	6	24.00	1.2
Nairn	bcprc	bccpr	bcz	cd	42	38	•	1	12.30	0.2	05.30	0.8
Aberdeen	cir.qc	cbcb	bbcc	corr.m.	45	36	26	Tr.	<8.00	3	05.30	1.1
Kalin Head	cqihr	cPh	cr.r.m.	circ	47	44	•	5	<8.00	9	<21.00	0.3
Renfrew	cRcbcq	pbcprq	rqpcc	orrm.	47	41	38	4	<8.00	8	<21.00	1.2
Edinburgh (Inchkeith)	bbc	b-bc	b-bc	bccor.r.	46	42	40	Tr.	17.30	1	03.30	2.3
Leuchars	bcqvbc	bc,prbc	bbc	bbcir.	45	38	34	0.1	16.30	0.4	05.30	3.4
Eskdalemuir	crrcprbc	bcprhc	cprbccrr	crr	43	39	37	5	<8.00	13	<21.00	1.5
Tynemouth	bcq	bcq	bcq	coir.	47	43	40	-	-	0.4	02.30	•
Blacksod Point ...	phqc	orr	rro	pqcq	49	46	•	2	•	3	•	•
Donaghadee	bbc	bcc	cir.	cir.c	46	42	•	-	-	2	22.00	•
Birr Castle	bcPhrtlcir	coir.	cir.c	cbcc	47	45	44	3	<8.00	Tr	<21.00	0.7
Helyhead	bbcq	cq	ir.rc	cbcm.	49	48	46	-	-	1	<21.00	2.5
Liverpool (Bidston) ...	bcc	cq	or.rrq	qcbcb	47	43	42	-	-	2	<21.00	1.1
Chester (Sealand) ...	prhbcq	bcz.c	cr.m.	bc	48	45	42	Tr.	9.00	1	<21.00	3.1
Harrogate	Qpbcb	cbQp.	bbccr	rc	44	42	37	Tr.	9.00	0.6	24.00	4.4
Spurn Head	cprbcq	bcq	bcc	cpdcpr	47	43	•	0.4	<8.00	Tr	01.30	2.8
Birmingham (Edgbaston)	cbc	bc	cbc	bc	46	44	41	-	-	-	—	2.1
Cranwell	b, c	cbcp.	bc	bcm.	46	43	41	Tr.	17.30	-	—	2.1
Gorleston	bcq	bcq	cqc	cr.	47	43	39	-	-	Tr	02.30	3.0
Valentia (Cahirciveen)	bcq.c	cpcbc	bcc	~~coc~~ cod.	52	50	47	0.2	14.30	0.1	05.30	0.0
Roches Point	bcc	cp.bc	bcc	cod.q.	51	50	•	Tr.	15.30	0.1	05.30	•
Pembroke (St. Ann's H.)	prhbc	bccpq	cq	cq	52	50	•	0.4	9.00	-	-	2.1
Ross-on-Wye	qlthrcrbq	bcqycqy	bcc bc	bcbbc	48	47	42	2	<8.00	-	-	3.6
Leafield	cPtlbcpq	bc	bcb	bwbc	46	43	39	4	<8.00	0.1	-	3.3
Winchester (Worthy Dn.)	bclcbqy	byqbc	bcbbc	bcc	49	42	38	-	-	-	-	4.8
S. Farnborough ...	b,crpcy	cbyb	bod.c	cbc	49	43	38	1	9.00	Tr	22.00	3.5
London (Kew Obsy.) ...	ctlprhqc	cbcb	bcm.	cm.	48	44	39	5	<8.00	Tr	-	2.0
Croydon	cNhqbc	cbz.	cbcm.	bz.	48	45	40	2	9.00	-	-	1.4
Shoeburyness	bcRprhqbc	bc	bc	bbc	49	43	41	4	<8.00	-	-	2.4
Clacton-on-Sea ...	bbccpbc	bc	bc	bc	47	44	40	1	9.00	-	-	3.3
Felixstowe	bcpr.	bcb	bw	bwbc	48	43	41	Tr.	11.00	-	-	3.2
Lympne	bbcqcqpbc	bcb	bc	bccm.	49	41	38	0.5	9.00	-	-	3.7
Scilly (St. Mary's) ...	bcp	bqm.	bbc	bccd.	52	50	•	0.5	11.00	0.1	06.30	3.5
Falmouth (Pendennis)	bcrq	bcq	bcq	bccvq	55	50	•	Tr.	<8.00	Tr	04.30	4.0
Plymouth (Mt. Batten)	bqmcr	bqc	cb	bccomd.	52	49	48	1	9.00	Tr	06.30	4.4
Portland Bill	bcPbc	bc	b	bbc	53	48	•	6	8.00	-	-	•
Southampton (Calshot)	bcoRQbcp	bcqyb	bcb	bbc	50	45	42	4	9.00	-	-	4.2
Dungeness	bcqbc	bc	bcc	cbcc	51	45	•	-	-	-	-	•
Guernsey	bcRRc	bcco	bbw	bwbcc	53	53	48	2	12.30	-	-	4.7



Observations from Ocean Chaser Seaplane

Position	Date and Time	Seaworthiness	Wind. Direc	Wind. Force	Weather	Temp. Air	Temp. Sea	Visibility
2	12th 10h	Scotia	W'S	6	b	44	50	7-4
1	12th 13h	St Helier	NW'W	8	b-	53	53	7
3	13th 2h	Dieppe	WNW	5	b-	50	52	7

GENERAL INFERENCE.

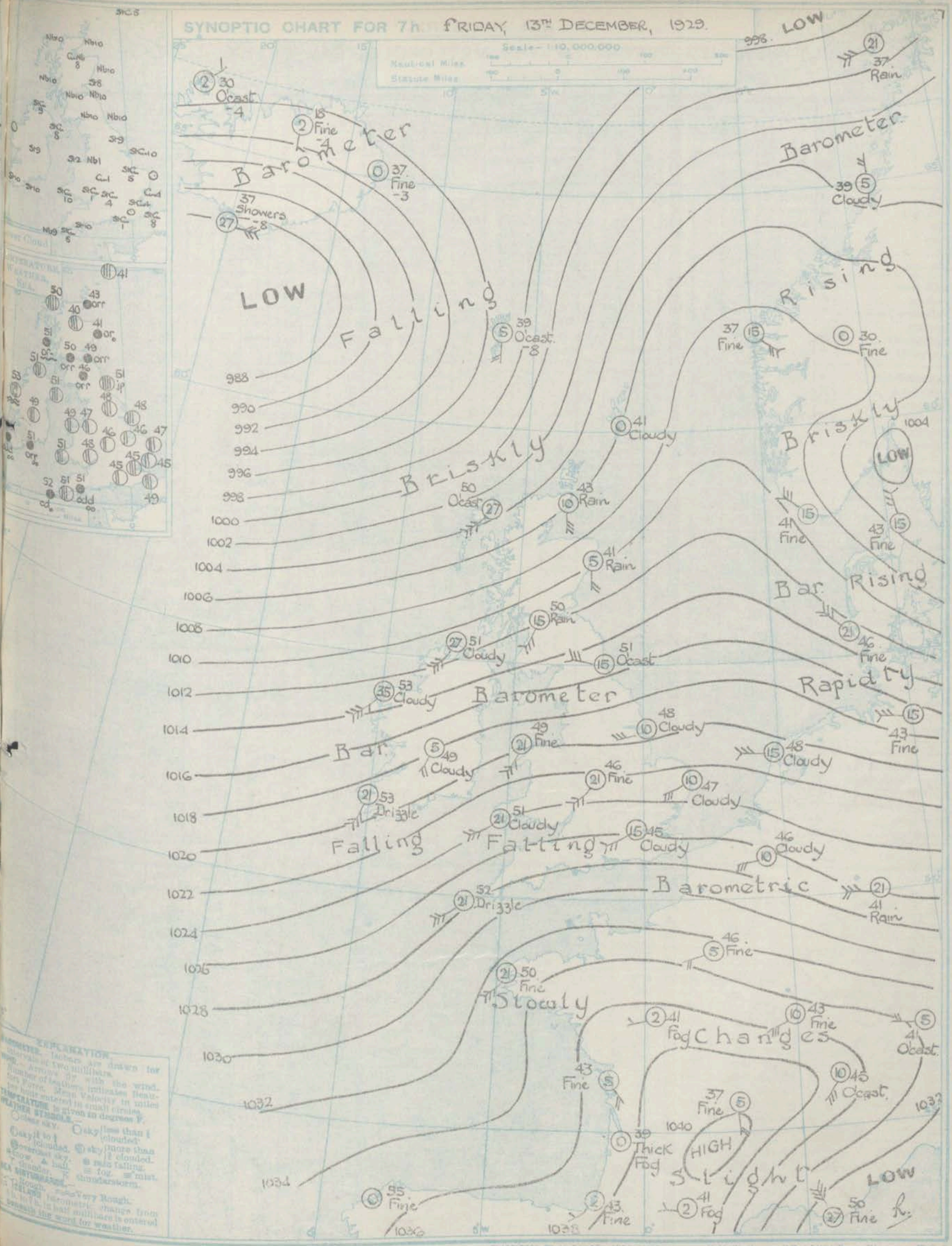
An anticyclone is situated south of the British Isles. Disturbances associated with a low-pressure system south of Iceland will pass over or near our western districts. Weather will be rather unsettled though no large amount of rain is expected in eastern districts of England.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 13th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southwesterly, moderate or fresh; fair periods, perhaps slight drizzle; mild.	
4. W. Midlands 5. S.W. England ▼ 6. South Wales ▼ 7. North Wales ▼ 8. N.W. England ▼	Wind southwest or west, moderate or fresh, perhaps strong locally at times; occasional rain or showers, fair periods; mainly mild.	Unsettled in the North and West; considerable fair periods in the South and Southeast.
9. N. Midlands 10. N.E. England	As 1 - 3.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man ▼ 13. A. W. Scotland ▼ B. N.W. Scotland ▼ 14. Mid-Scotland 15. N.E. Scotland ▼ 16. Orkneys and Shetlands ▼	Wind southwest or west, moderate or fresh, perhaps strong locally at times; rain or drizzle at first; then showers, perhaps with hail later; temperature rather high to moderate.	▼ South Cone hoisted at 17h. 10m. yesterday, in districts 13A and 13B; still flying in other districts.
17. N.W. Ireland ▼ 18. N.E. Ireland ▼ 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	Wind southwest or west, moderate or fresh, perhaps strong locally at times; occasional rain or showers: perhaps hail locally later; temperature rather high to moderate.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1015 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION FRIDAY 13th DECEMBER 1929. No. 347.

STATIONS.	Height above M.S.L., in feet.	Observations at 1h. G.M.T. 13th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 13th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-8
Lerwick	34	1006.2	+5	W'S	1	bc	39	85	8	1500	StCu	3	-	3	1006.0	-1	-	0	C	41	92	8	1500	StCu	5	ASt	9	*
Stornoway	39	1008.1	+1	SW	2	c	*	*	6	*	*	*	*	10	1002.2	-6	SW	6	o/r	50	97	6	2500	Nb	10	-	10	4
Wick	81	1009.0	+3	W	2	bc	37	92	8	1500	CuNb	2	ASt	6	1006.2	-4	S	3	o r r	43	92	8	1500	Nb	10	-	10	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.6	0	WSW	7	or-	51	97	6	2500	Nb	10	-	10	7
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.1	*	—	0	c	40	85	7	1500	CuNb	8	-	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.6	-3	S	2	or.	41	97	6	2500	Nb	10	-	10	1
Malin Head	81	1011.0	-4	SW'W	5	cr.	51	92	6	2500	Nb	6	ASt	10	1010.9	+1	SW	6	c	51	92	7	4000	StCu	9	-	9	5
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.5	-2	SSW	4	o r r	50	97	6	1500	StCu	10	-	10	*
Edinburgh (Inchkeith)	106	1012.2	+5	W	5	bc	44	85	8	800	St	2	ACu	4	1009.8	-4	WSW	5	o r r	49	92	8	4000	Nb	10	-	10	3
Leuchars	50	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	-3	SSE	1	o/r	42	97	7	1500	St	8	ASt	10	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.2	-1	SW'S	5	o r r	46	92	6	800	Nb	10	-	10	*
Tynemouth	67	1015.4	+3	W	3	c+	45	85	7	1500	Nb	8	-	8	1014.1	-1	W	4	o j p	51	75	6	1500	Nb	10	-	10	2
Blacksod Point	18	1014.7	+1	W	7	c	51	92	7	*	-	0	ASt	10	1012.7	-2	SW	7	c	53	92	7	*	-	0	ASt	10	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.2	+1	SW	2	c	51	85	7	4000	StCu	8	-	8	2
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.8	-3	SW	2	c+	49	85	7	2500	St	9	-	9	*
Holyhead	30	1020.1	+2	SW'W	6	c	49	97	6	4000	StCu	8	ACu	9	1020.0	-1	SW	5	bc+	49	97	6	7200	St	2	Ci	3	4
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.2	0	W	4	bc+	47	75	8	2500	Nb	1	ACu	7	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.5	+1	WSW	3	bc	50	75	7	2500	StCu	2	Ci	4	*
Harrogate	678	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.2	0	SW	3	c	48	85	7	2500	St	9	-	9	3
Spurn Head	30	1018.6	+4	W'N	3	c+	45	85	6	2500	Nb	8	ASt	10	1019.1	0	W'S	3	c	48	85	7	4000	StCu	10	-	10	*
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.0	+1	SW	5	bc	46	85	8	2500	Cu	1	Ci	7	*
Cranwell	268	1020.7	+1	SW	4	bc	44	85	7	2500	StCu	1	ACu	4	1021.1	+1	SW'W	4	bc+	46	85	6	4000	StCu	5	CiCu	8	0
Gorleston	14	1021.6	+4	W'S	3	c	45	92	7	-	-	0	ACu	9	1022.1	0	WSW	3	c	47	85	7	—	—	0	ASt	10	*
Valentia (Cahirciveen)	30	1022.0	+3	SW	3	bc	51	92	8	*	Cu	7	-	7	1018.8	-5	SSW	5	od.d.	53	97	6	450	St	10	-	10	5
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.8	-3	SW	3	o dd.	51	97	6	800	St	10	-	10	4
Pembroke (St. Ann's H.)	180	1024.2	0	WSW	6	c+	61	97	7	2600	StCu	7	ASt	10	1024.0	-1	WSW	5	c	51	97	7	2500	StCu	10	-	10	*
Ross-on-Wye	325	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.4	+1	W'S	3	bc	48	75	7	4000	StCu	1	Ci	3	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.1	0	SW'W	5	bc	45	85	8	5700	StCu	4	CiSt	5	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.2	+1	SW	3	c	46	85	7	2500	StCu	9	-	9	*
S. Farnborough	267	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.3	0	SW'W	4	bc	45	85	8	—	—	0	Ci	7	*
London (Kew Obsy.)	18	*	*	*	*	*	45	*	*	*	*	*	*	*	1026.1	0	WSW	4	c-	45	85	6	2500	StCu	4	ASt	8	*
Croydon	244	1026.0	+2	WSW	5	b-	48	75	6	-	-	0	ACu	1	1026.3	0	W	5	b+	47	85	6	2500	StCu	2	-	2	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.0	0	W	3	bc	47	92	7	4000	StCu	3	-	3	3
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.9	0	W	4	bc	45	85	7	4000	Cu	4	-	4	3
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.3	+1	SW	3	bc	44	97	7	—	—	0	Ci	5	*
Lympne	350	1025.5	+2	WSW	4	bc	45	92	7	4000	StCu	7	-	7	1026.4	+1	WSW	4	c+	46	92	6	2500	StCu	8	-	8	*
Scilly (St. Mary's)	160	1029.8	+1	W'S	6	bc	51	92	7	4000	Cu	4	-	4	1027.0	-2	SW'W	5	cd.	52	97	6	2500	Nb	9	-	9	5
Falmouth (Pendennis)	200	1028.0	+1	WNW	7	bc+	51	85	8	4000	StCu	7	-	7	1028.2	-2	W	5	c	51	92	7	4000	StCu	8	ASt	10	1
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.6	-1	WSW	4	od.d.	51	97	6	450	St	10	-	10	*
Portland Bill	37	1027.1	+3	WSW	7		51	92	7	-	-	0	-	0	1026.7	0	WSW	6	bc	52	85	7	2500	CuNb	5	ASt	6	4
Southampton (Calshot)	10	1027.1	+1	WSW	4	b	48	85	8	-	-	0	ACu	1	1027.9	+1	WSW	4	b	48	75	7	2500	StCu	1	Ci	2	0
Dungeness	30	1025.1	+2	W	4	c-	50	97	7	-	-	0	ACu	8	1026.0	-2	W	5	c	49	97	7	4000	StCu	8	-	8	4
Guernsey (St. Peter Port)	173	1031.8	+2	WSW	3	b	51	92	6	-	-	0	ACu	2	1032.0	0	WSW	2	c	51	85	5	2500	StCu	8	-	8	5

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 12th DECEMBER.

STATIONS.	Weather. Forenoon. 12h.	Weather. Afternoon. 12h.	Temperature. Min. 9h.-11h. to 9h. 12h.	Temperature. Max. 9h.-17h. 12h.	Rainfall.† Night 17h.-9h. 12h.-12h.	Rainfall.† Day 9h.-17h. 12h.	Sunshine. Sunrise to Sunset. 12h.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	cbc	cbc	37	46	0.2	-	4.2
Douglas (I. o. M.)	cbeq	cbeq	42	47	-	-	2.0
Llandudno	c	c	44	48	1	-	1.0
Colwyn Bay	cbeb	becb	44	48	1	-	0.3
Rhyl	bc	c	44	48	1	-	2.3
Wallasey	irc	co	43	48	2	-	0.0
Southport	cbcc	co	44	48	1	-	0.8
Blackpool	phc	bcc	44	47	1	-	1.5
Morecambe	cbc	cbc	44	47	0.2	-	1.4
Ilkley	bcpc	c	38	45	2	0.6	1.2
Cleethorpes	b	bcc	40	47	3	-	2.9
Mablethorpe	bcbvq	bbcbq	40	46	2	-	3.1
Skegness	bcprb	bcb	41	47	0.3	-	4.4
Aberystwyth	tlrc	bcc	41	50	1	-	2.3
Bath	phbcb	bbc	47	49	2	1	4.10
Cheltenham	bcb	bbc	40	51	3	-	2.7
Leamington Spa	ocbc	bc	42	47	0.2	-	2.8
Lowestoft	bcc	b	44	46	-	-	4.1
Harwich & Dovercourt	dbc	pbc	43	51	Trace	Trace	3.2
Maldon	rqtlc	qb	42	48	1	-	3.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	tlrc	bcc	45	51	4	0.5	1.4
Bude	rpc	c	45	52	11	0.3	2.5
St. Ives	c	c	48	52	-	-	3.1
Penzance	cb	bz	50	54	1	-	4.0
Paignton	cqRpb	bc	48	53	-	1	4.1
Torquay	cqpRpq	bc	48	53	-	1	4.3
Jersey	bc	bcc	52	55	-	-	4.7
Weymouth	cpcb	bcpb	47	52	2	1	2.7
Bournemouth	odcb	bbc	46	50	2	2	3.5
Ventnor	rbcpb	bbc	47	51	0.3	0.5	3.4
Portsmouth (S'thsea)	cor	b	48	51	-	3	3.7
Bognor Regis	bcPR	b	49	50	-	2	3.1
Littlehampton	bcpbc	bc	47	54	0.5	0.1	4.0
Worthing	bcc	bcb	49	52	1	-	4.0
Brighton	bbcpbc	bc	49	51	-	Trace	3.7
Eastbourne§	bbcc	cbcb	47	53	0.1	-	3.5
Hastings§	bcobc	bbcb	46	53	2	-	3.3
Folkestone	bcorc	cbcb	46	50	-	0.5	2.8
Dover	bccro	cb	47	49	-	Trace	2.5
Deal	cbc	bbcc	46	49	2	-	2.9
Tunbridge Wells	opc	bc	45	48	0.3	1	2.6
Ramsgate	proc	cbc	45	48	3	2	2.1
Margate	bcp	bc	44	48	Trace	2	1.7
Southend	crbc	bcb	42	47	2	0.3	3.1

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* Information not usually received. § The observations at 1h. G.M.T. from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. § 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,859 Saturday, 14th DECEMBER, 1929.

Observations at 18h. G.M.T. 13th.

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1000·2	-9	S	4	c/r	46	92	7	1500	StCu	5	ASt	9	•
Stornoway	1000.5	-4	SW	4	orr	46	97	6	1500	Nb	10	-	10	•
Wick	1002·8	-2	SSW	3	orr.	46	97	8	1500	Nb	10	-	10	•
Tiree	1004.9	-4	SW	7	od+	51	97	6	450	St	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1005.9	-4	SSW	3	c	48	92	7	1500	Nb	1	ACu	8	2
Malin Head	1008·9	-3	SW	6	c	53	92	7	1500	St	9	-	9	•
Renfrew	1010·3	-4	SSW	6	c	51	85	7	1500	St	9	Ci	9	2
Edinburgh (Inchkeith)	1008·9	-3	WSW	6	c	51	85	8	4000	Cu	3	ACu	8	•
Leuchars	1008.6	-3	SW'W	5	c	51	85	7	800	StCu	10	-	10	2
Eskdalemuir	1013.6	-2	SW'W	7	od.	47	92	6	800	St	10	-	10	2
Tynemouth	1014·8	-1	SW	2	c	50	85	6	1500	Nb	8	-	8	•
Blacksod Point	1010·3	-1	SW	7	cd	54	92	7	•	CuNb	8	-	8	•
Donaghadee	1012·8	-4	WSW	3	c	52	85	7	4000	StCu	8	-	8	•
Birr Castle	1016.4	-1	SSW	2	odd	55	85	7	2500	St	10	-	10	•
Holyhead	1017.9	-4	SW	5	o	52	97	5	220	St	10	-	10	1
Liverpool (Bidston)	1018·7	-2	W'S	6	bc	55	75	9	2500	StCu	2	CiSt	3	•
Chester (Sealand)	1017.8	-5	SW'W	6	bc	58	75	8	2500	StCu	1	Ci	3	2
Harrogate	1018.6	0	SSW	3	cdd	49	92 (85)	5	2500	Nb	9	ASt	10	•
Spurn Head	1019.0	-1	W	5	c	49	85	6	4000	StCu	6	Ci	9	•
Birmingham (Edgbaston)	1022·3	-2	SW	4	bc+	50	85	6	2500	StCu	7	-	7	2
Cranwell	1021·1	-3	SW'W	5	bc+	51	75	6	4000	StCu	4	-	4	1
Gorleston	1023·1	-2	W	4	bc-	49	92	7	4000	Cu	6	-	5	•
Valentia (Cahirciveen)	1018.0	-1	S'W	4	odd	54	97	6	220	St	10	-	10	2
Roches Point	1021.4	-3	SW	3	od.	53	97	6	800	St	10	-	10	•
Pembroke (St. Ann's H.)	1022·2	-1	SW'W	5	fo-	53	97	3	450	St	10	-	10	•
Ross-on-Wye	1022·5	-3	SW'W	4	c+	52	92	6	2500	StCu	9	-	9	2
Leafield	1023.9	0	SW'S	4	od.	49	97	5	450	St	10	-	10	2
Winchester (Worthy Dn.)	1026·2	-2	SW	4	odd	51	97	6	450	St	10	-	10	2
S. Farnborough	1026·5	-2	SW	4	odd	51	97	4	450	Nb	10	-	10	2
London (Kew Obsy.)	1026.4	-2	SSW	3	od.	50	92	5	1500	Nb	10	-	10	2
Croydon	1026·5	-3	SW	4	cdd	48	97	5	800	Nb	7	Ci	9	2
Shoeburyness	1025.3	0	W	3	bc+	51	92	8	6700	StCu	5	Ci	7	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1025.4	-1	WSW	3	c	50	85	6	-	-	0	Ci	9	1
Dover	1027.0	-2	SW	4	o+	51	85	7	1500	St	10	-	10	2
Scilly (St. Mary's)	1026·3	-1	SW	6	fo	53	97	3	800	St	10	-	10	•
Falmouth (Pendennis)	1027·2	-2	W'S	6	cr.	53	97	6	2500	Nb	6	ASt	10	•
Plymouth (Mt. Batten)	1027.0	-2	SW	6	odd	52	97	6	220	St	10	-	10	2
Portland Bill	1025.9	-2	WSW	7	odd	53	92	6	1500	Nb	10	-	10	•
Southampton (Calshot)	1027·1	-2	WSW	5	odd	52	97	5	450	Nb	10	-	10	1
Dungeness	1027.6	0	WSW	2	c+	52	92	7	4000	StCu	9	-	9	•
Guernsey (St. Peter Port)	1031·0	-3	SW	3	od+	52	92	5	1500	Nb	10	-	10	•

Observations at 18h. G.M.T. 13th.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	995·4	-7	SW	3	or.r.	48	92	7	1500	Nb	10	-	10	•
Stornoway	997.5	-3	SW	6	c/r	49	85	6	1500	CuNb	9	-	9	4
Wick	998.4	-6	SW	3	c	48	97	8	1500	StCu	8	ASt	10	1
Tiree	1004·4	+1	WSW	6	c	49	92	7	4000	StCu	10	-	10	6
Nairn	1000·2	•	W'S	5	c/r	52	92	8	1500	CuNb	8	-	8	•
Aberdeen	1002·6	-2	SW	4	bc	53	75	7	-	-	0	ACu	4	0
Malin Head	1008·3	0	SW	5	c	53	92	7	2500	StCu	9	-	9	4
Renfrew	1008·0	-3	SSW	6	or	53	92	6	800	St	10	-	10	•
Edinburgh (Inchkeith)	1006·4	-3	WSW	7	c	54	85	8	4000	StCu	4	ACu	9	5
Leuchars	1006·0	-2	WSW	6	c	54	85	8	800	St	10	-	10	•
Eskdalemuir	1011·7	-3	SSW	4	od.	48	97	4	<150	St	10	-	10	•
Tynemouth	1011·1	-2	SW	2	or.	53	85	6	1500	Nb	10	-	10	1
Blacksod Point	1011.0	0	S	6	c	53	92	6	•	-	0	ASt	10	7
Donaghadee	1011.7	0	SW	2	c/pr	56	85	7	4000	CuNb	8	-	8	•
Birr Castle	1016·1	0	SW	1	od.	55	92	7	2500	St	10	-	10	•
Holyhead	1016·5	0	SW	5	o	52	97	5	220	St	10	-	10	3
Liverpool (Bidston)	1016·2	-1	WSW	5	bc/r	54	85	9	2500	CuNb	7	-	7	•
Chester (Sealand)	1017.8	+2	SW	4	c+	56	85	6	2500	St	7	Ci	8	•
Harrogate	1016·3	-2	SSW	3	cr.	54	85	5	2500	Nb	9	ASt	10	•
Spurn Head	1017.1	-1	W'S	5	bc	50	92	6	4000	StCu	6	CiCu	7	3
Birmingham (Edgbaston)	1021·0	-1	SSW	4	c	62	92	7	800	St	9	-	9	•
Cranwell	1019.6	-2	SW'W	4	c	53	85	6	1500	StCu	7	ACu	9	•
Gorleston	1021.6	-2	SW'W	4	c	61	92	6	5700	Cu	9	-	9	1
Valentia (Cahirciveen)	1018·0	+2	S'W	4	od.	52	97	6	220	St	10	-	10	6
Roches Point	1020·3	0	SW	3	odd	53	97	6	800	St	10	-	10	6
Pembroke (St. Ann's H.)	1021·1	0	SW'W	4	mo+	53	97	4	450	St	10	-	10	4
Ross-on-Wye	1021·1	-1	SW'W	4	bc-	54	85	8	4000	StCu	6	Ci	6	•
Leafield	1022·8	-1	SW'S	4	od.	51	97	5	220	St	10	-	10	•
Winchester (Worthy Dn.)	1025·6	0	SW'S	4	o	52	97	6	800	St	10	-	10	•
S. Farnborough	1026·3	0	SW	4	o/r	53	97	6	450	St	10	-	10	•
London (Kew Obsy.)	1024·7	-1	SW	4	o	53	92	5	1500	St	10	-	10	•
Croydon	1025·1	-1	SW	4	o/d	52	97	6	450	St	10	-	10	•
Shoeburyness	1024.5	-1	SW	3	cd.	52	97	7	800	StCu	9	-	9	•
Clacton-on-Sea	1024.5	-1	S	4	c	49	97	7	-	-	0	ASt	10	3
Felixstowe	1023·7	-1	SW	3	c	50	97	6	1500	StCu	10	-	10	1
Lympne	1025·7	-2	SW'W	5	o	51	97	5	220	St	10	-	10	•
Dover	1026.7	0	WSW	6	fo	52	97	2	450	St	10	-	10	5
Scilly (St. Mary's)	1026·4	0	WSW	5	cr.	52	97	6	2500	Nb	6	ASt	10	2
Falmouth (Pendennis)	1026·0	-2	SW	5	odd	51	97	4	<150	St	10	-	10	4
Plymouth (Mt. Batten)	1025·4	-1	SW	6	cd.	53	92	5	1500	StCu	10	-	10	6
Portland Bill	1026·4	0	SW'W	5	od.	52	97	6	450	St	10	-	10	3
Southampton (Calshot)	1025·9	-2	WSW	4	od.	51	97	7	1500	Nb	10	-	10	4
Dungeness	1030·0	0	SW	3	od+	53	92	5	2500	St	10	-	10	5
Guernsey (St. Peter Port)														

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs. (YESTERDAY.)	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility.
Kew	18	bccod.	od.m.	omc	53	53	51	0.4	Tr	1.4	*	*	6
Croydon	244	bz.od	cod.m	od.ch	52	52	50	0.2	0.1	1.3	*	*	6
Greenwich (Royal Obsy.)	149	c	cd.	cid.	54	53	48	Tr	Tr	1.3	94	97	5
City (Bunhill Row)	89	*	*	*	*	*	*	*	*	0.1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	56	(51)	49	Tr		1.1	94	98	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	odb	codo	*	53	53	*	0.3	-	*	*	100	*
Kensington Palace	80	odr	odr	*	53	53	51	0.3	0.2	*	(At 18h) 93	95	*
Hampstead Observatory	450	*	*	*	52	49	47	0.3	0.3	1.2	*	97	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 14th.

	Max.	Time.	Min.	Time.
South Kensington	0.8	13th 16h	<0.3	14th 1-6h
Kew Observatory	0.2	13th 14h	<0.1	14th 0-6h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 13th 17 h. 0 m. to 14th 7 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14·0	0 46	5
δ Ursae Minoris	14·0	0 32	4

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Stating to-day in 15h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

14th DECEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.59	11·48	15·36
	8·0	11·48	15·36
Greenwich	8·0	11·55	15·49
	8·1	11·55	15·49
Wick	8·58	12·7	15·16
	8·59	12·7	15·16
Valentia	8·44	12·36	16·27
	8·45	12·36	16·27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
z 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; – = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell

6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

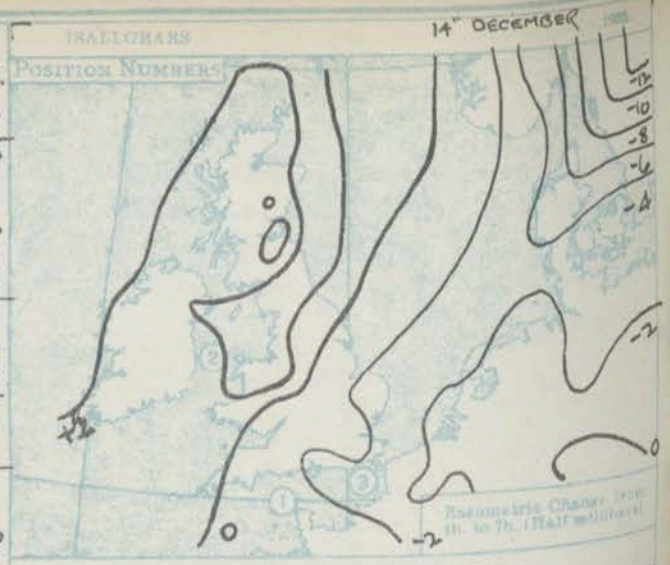
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 13"	13h.-18h. 13"	18h. 13" to 1h. 14"	1h.-7h. 14"	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	Sun 13" Hours.
Lerwick	cor.rc	cor.r.	or.r.rlcbc	bcclrlq	48	43	•	2	<8.00	2	<21.00	0.0
Stornoway	r-d	r-d q	cprc	cprbc	51	40	•	4	<8.00	2	<21.00	0.0
Wick	rr r.r.	orrc	bcprc	cprb	48	39	•	6	<8.00	1	22.00	•
Tiree	DoD	dd	cr.	pr.	52	45	40	1	<8.00	1	22.00	0.0
Nairn	cprq	crrq	cprq	cqpr	52	41	•	4	12.30	2	<21.00	0.0
Aberdeen	ocm.c	cbc	bc	crb	53	41	37	0.1	<8.00	0.3	04.30	0.1
Malin Head	ce	ce	cdmcirD	cDc	53	45	•	-	-	9	<21.00	0.1
Renfrew	orr.cq	cqd.r.r.	crrq	rrir.	53	45	43	4	<8.00	13	<21.00	0.0
Edinburgh (Inchkeith)	orrir.c	cir.	cir.or.	orrc	54	44	42	1	<8.00	6	<21.00	1.3
Leuchars	cidmcq	cq	cqcrq	cirrqcbc	54	41	38	0.1	<8.00	3	24.00	0.4
Eskdalemuir	crroid.	odr d.m	cd.m	cd bc	49	43	41	5	<8.00	7	<21.00	0.0
Tynemouth	oc	coir.	oir.bc	bc	53	50	48	Tr.	17.30	0.1	<21.00	•
Blacksod Point	dde	dcq	do	do	54	47	•	0.5	•	5	•	•
Donaghadee	c	cpr	cp.r	cp.r	56	46	•	0.4	15.30	1	<21.00	•
Birr Castle	cbcd.	oid.	cd.ir	cir	57	52	49	0.4	<8.00	3	<21.00	0.9
Holyhead	bccid.	mir.m.	om.	ri.om.	52	51	50	0.2	11.00	4	24.00	0.0
Liverpool (Bidston)	bebv	bcvp.	bcpcv	ccrc	55	52	49	Tr.	17.30	1	03.30	4.6
Chester (Sealand)	bcqv	bcvq	cir.	cir	59	54	51	-	-	0.5	<21.00	4.6
Harrogate	cd	cdcir.	cir.	cir.	54	52	49	Tr.	12.30	0.2	<21.00	0.0
Spurn Head	c	cbc	bcw	cp.rc	51	49	•	-	-	0.1	03.30	2.4
Birmingham (Edgbaston)	bc	bcc	cp.r	c	52	51	50	-	-	0.2	24.00	1.6
Cranwell	bcc	bcc	cm.c	c	53	53	51	-	-	-	-	2.5
Gorleston	cbc	bcc	cq	cbccq	52	51	47	-	-	-	-	2.2
Valentia (Cahirciveen)	odd	oddcid.	oid.or	orod.	54	52	51	0.2	<8.00	5	<21.00	0.0
Roches Point	oid.	odd	odd	odoid.	54	50	•	4	<8.00	2	<21.00	•
Pembroke (St. Ann's H.)	offd.	omffd	offid.	offd.	53	52	•	1	<8.00	0.5	<21.00	0.0
Ross-on-Wye	bccbc	cbpc	bccd.	cpc	54	53	51	-	-	1	22.00	1.4
Leafield	bccd.	otd.m	cod	odc	52	51	50	0.2	12.30	Tr	<21.00	0.4
Winchester (Worthy Dn.)	bccomdd	odmom	r.od.m.	omd.d.m.	53	52	50	Tr.	11.00	0.4	<21.00	0.8
S. Farnborough	bcodm	odrrm	om.r	od.m.	53	52	51	1	11.00	0.6	22.00	0.4
London (Kew Obsy.)	bccod.	od.m	om.	om.c	53	53	52	0.4	12.30	Tr	06.30	1.4
Croydon	bz.odd	coddm	od.m.	od.cm.	52	52	50	0.2	11.00	0.1	<21.00	1.3
Shoeburyness	bc	bbc	cq.id.	cq.id.	53	52	51	Tr.	17.30	Tr	<21.00	2.8
Clacton-on-Sea	bco	co	o	o	50	48	48	-	-	-	-	0.2
Felixstowe	cz.	cz.	cm.	cw	51	49	48	-	-	-	-	0.1
Lympne	cbco	oddfm.	onddF	odd F	51	50	49	0.1	16.30	0.2	<21.00	2.1
Scilly (St. Mary's)	coddc	offer	offir	offr.	53	52	•	1	<8.00	1	<21.00	0.0
Falmouth (Pendennis)	omrq	omrq	omrq	omodq	54	52	51	2	<8.00	1	<21.00	0.0
Plymouth (Mt. Batten)	omdd	omdd	omd.d.	cqmd.d.	53	52	46	2	<8.00	1	<21.00	0.0
Portland Bill	bccodm.	oddom.	ofod	ofod	53	48	•	1	11.00	1	<21.00	•
Southampton (Calshot)	coddm.	oddom.	bddm	od.d.m.	52	52	52	Tr.	11.00	0.4	<21.00	0.7
Dungeness	c	cod.	od.	od.d	52	50	•	0.1	17.30	0.2	<21.00	•
Guernsey	cpod	Codco	odom	ompro	54	53	54	0.1	12.30	1	22.00	1.0

Isallobars — Position Numbers

14th DECEMBER



Barometric Change from 18h. to 7h. (Half millibars)

Observations from Cross Channel Steamers

Position.	Date and Time	Steamship.	Wind. Direc.	Wind. Force.	Weather	Temp. Air	Temp. Sea	Visibility
2	13th 10h	Scotia	S'W	5	c+	52	51	7
3	14th 2h	Arundel	WSW	4	c	52	53	7

GENERAL INFERENCE.

A depression centred north of the Shetlands is moving east. There is an anticyclone over France and Spain, and pressure is rising over the Atlantic west of the British Isles. In northern districts weather will be somewhat cooler with showers and brighter intervals; but in the South mild cloudy weather, with occasional drizzle or light rain, will continue for some hours though there is a prospect of improvement later.

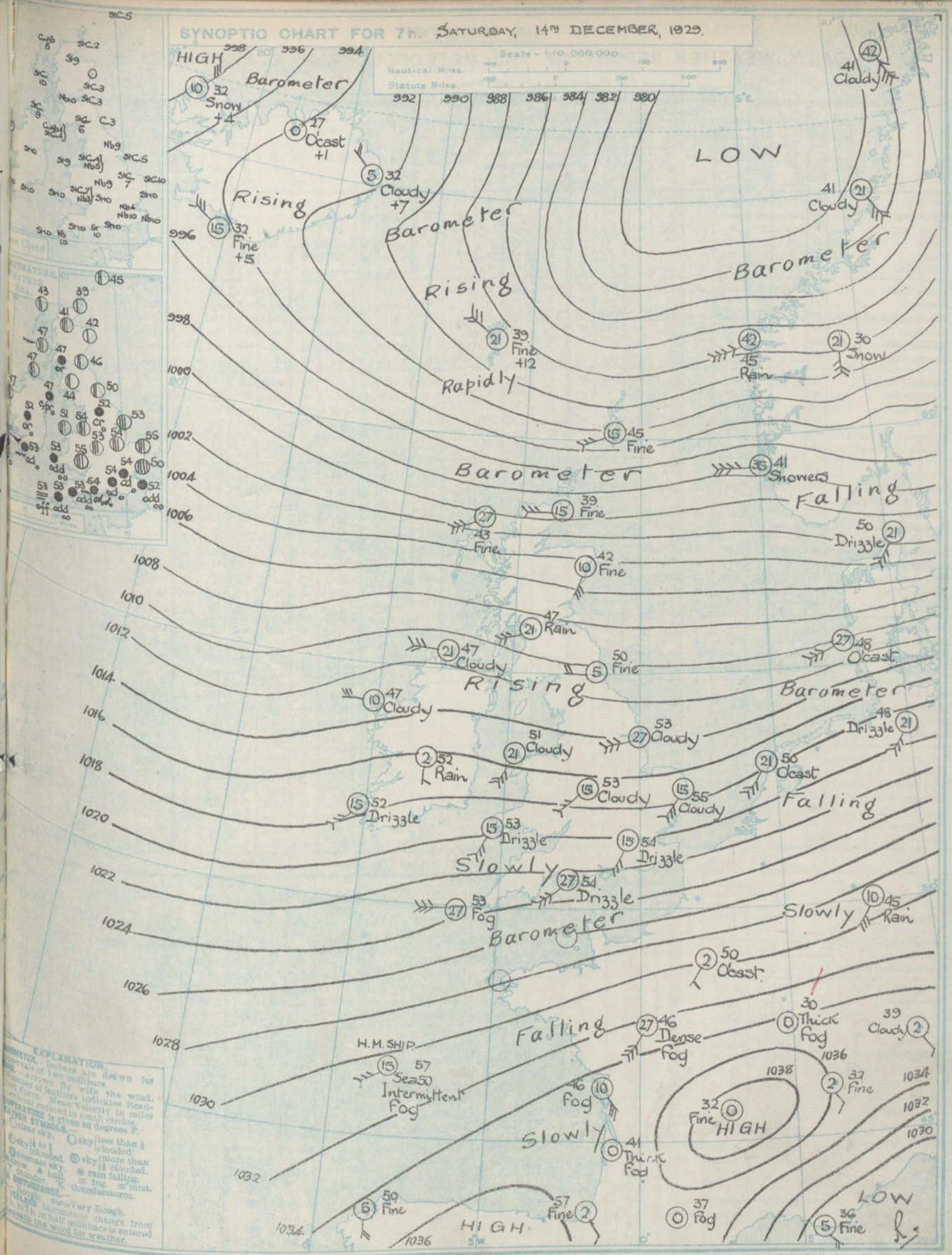
Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 14th December, 1929.

Districts.	Forecast	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind southwest or west, moderate or fresh; cloudy or dull at first, with occasional drizzle or light rain; perhaps some improvement later; mild.	Not entirely settled, but fair periods; somewhat colder in the North but mainly mild in the South.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind westerly, moderate or fresh; cloudy; occasional rain or showers; brighter intervals; temperature probably falling somewhat.	
13. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind westerly, moderate or fresh; some showers; bright intervals; moderate or rather low temperature; perhaps frost at night.	South Cone hoisted 15h. 30m. yesterday in district 16.
17. N.W. Ireland	As 7 - 12.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwest or west, moderate or fresh; cloudy; occasional rain or showers; some brighter intervals; mild, but temperature lower than of late.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1020 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1.

Trace = rain has fallen, but amounts less than 0.1 mm.


SYNOPTIC CHART FOR 7h. SATURDAY, 14TH DECEMBER, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
Barometer
Rising
Rapidly
Falling
Slowly
H.M. SHIP
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. SATURDAY 14th DECEMBER 1929. No. 348

Observations at 1h. G.M.T. 14th

Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10
Lerwick	34	990.7	0	WSW	8	bc	46	75	8	1500	St.Cu.	6	-	6
Stornoway	30	1000.4	+2	W	5	c	•	•	7	•	•	•	•	8
Wick	81	999.2	+1	W	4	c	43	75	8	1500	Nb.	4	A.St.	10
Tiree	28	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1009.0	+3	W	5	cD	47	97	5	800	Nb.	7	A.St.	10
Renfrew	38	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	1006.4	-1	WSW	4	or	47	97	8	800	Nb.	10	-	10
Leuchars	39	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	704	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1009.1	-1	SW	2	bc	52	92	6	2500	Cu.	4	-	4
Blacksod Point ...	18	1011.5	0	W	1	ooo	48	92	7	•	Nb	10	-	10
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	28	1013.8	-4	SSW	6	or	51	97	6	4450	Nb.	10	-	10
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1015.8	0	SW'W	3	bc	51	92	7	4000	Cu.	4	A.Cu.	5
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	258	1017.8	-1	SW'S	5	c	54	85	8	1500	St.Cu.	9	-	9
Gorleston	14	1020.8	0	SW'W	4	c	56	97	7	4000	St.Cu.	10	-	10
Valentia (Cahirciveen)‡	30	1014.8	0	SW	3	mmo	52	97	4	•	St.	10	-	10
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	160	1018.8	-1	SW	4	odo	52	97	3	4450	St.	10	-	10
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	372	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	287	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	54	•	•	•	•	•	•	•
Croydon	244	1024.2	-1	SW	4	odo	53	97	6	800	St.	10	-	10
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	1024.9	-2	SW	4	odd	51	97	1	4450	St.	10	-	10
Scilly (St. Mary's) ...	163	1023.8	-2	WSW	6	ffo	53	97	2	800	St.	10	-	10
Falmouth (Pendennis)	200	1024.7	-2	W	6	or	53	97	6	2500	Nb.	10	-	10
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1023.9	-1	SW	5	odd	53	97	7	800	St.	10	-	10
Southampton (Calshot)	10	1025.3	-1	SW'W	6	od	53	97	5	4450	St.	10	-	10
Dungeness	30	1025.0	-2	WSW	3	odd	52	97	7	1500	Nb.	10	-	10
Guernsey (St. Peter Port)	175	1029.0	-2	SW	3	mmo	54	92	4	1500	St	10	-	10

Observations at 7h. G.M.T. 14th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	[illegible]
Lerwick	992.0	+2	WSW	4	bc	45	65	8	1500	St.Cu.	5	-	5	•
Stornoway	1000.8	+2	WSW	6	bc	43	85	7	4000	Cu.Nb	5	-	5	4
Wick	999.8	-1	W	4	b	39	85	8	2500	St.Cu.	2	-	2	3
Tiree	1007.2	+1	W'N	6	c	47	75	7	4000	St.Cu.	10	-	10	6
Nairn	1003.4	•	W	4	c	41	85	7	1500	St	9	-	9	•
Aberdeen	1005.3	+3	SSW	3	b	42	75	7	-	-	0	A.Cu.	2	•
Malin Head	1010.3	+2	W	5	c	47	85	7	4000	St.Cu.	9	-	9	5
Renfrew	1009.4	+1	WSW	5	or	47	85	7	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	1007.4	-1	WSW	4	bc	46	85	8	4000	St.Cu.	3	A.Cu.	5	1
Leuchars	1006.9	0	SW'W	4	bc	44	85	8	4000	St.Cu.	3	-	3	•
Eskdalemuir	1010.7	+1	WSW	5	bc	44	85	8	2500	St.Cu.	6	A.Cu.	7	•
Tynemouth	1010.2	+3	W	2	bc	50	85	7	2500	Cu.	3	-	3	1
Blacksod Point ...	1013.7	+1	W	3	c/d	47	92	7	•	-	0	A.St.	10	5
Donaghadee	1011.9	+1	W	1	c/pr.	47	92	7	4000	Cu.Nb	8	-	8	1
Birr Castle	1013.6	+1	S	1	or.	52	97	6	2500	St	10	-	10	•
Holyhead	1014.2	+2	SW	5	e-	51	97	6	800	St	9	-	9	3
Liverpool (Bidston) ...	1014.7	+2	SW'W	3	c	54	85	8	2500	Nb	9	-	9	•
Chester (Sealand) ...	1015.1	+3	SSW	2	c	56	85	8	2500	St	8	-	8	•
Harrogate	1013.0	0	SW	4	cr.	52	92	7	2500	Nb	9	A.St.	10	•
Spurn Head	1012.9	-1	W'S	6	c-	53	92	7	5700	St.Cu.	5	c.St.	8	3
Birmingham (Edgbaston)	1017.7	0	SW	4	c	53	92	8	1500	Nb	9	-	9	•
Cranwell	1015.8	-1	SW'W	5	c	54	85	7	1500	St.Cu.	7	A.St.	9	•
Gorleston	1017.9	-3	SW'S	4	c	55	92	6	4000	St.Cu.	10	-	10	1
Valentia (Cahirciveen)‡	1017.6	+2	SW	4	od.	52	97	6	220	St	10	-	10	•
Roches Point	1018.2	+1	SW	3	od.	53	97	6	800	St	10	-	10	6
Pembroke (St. Ann's H.)	1018.6	+1	SW	4	odd.	53	97	3	450	St	10	-	10	4
Ross-on-Wye	1018.6	-1	WSW	4	c	55	85	8	2500	St.Cu.	10	-	10	•
Leafield	1019.3	-1	SW'S	4	odd	52	97	6	450	St	10	-	10	•
Winchester (Worthy Dn.)	1022.0	-2	SW	4	odd	54	97	6	450	Nb	10	-	10	•
S. Farnborough ...	1021.4	-1	SW	5	od.	54	97	6	450	Nb	10	-	10	•
London (Kew Obsy.) ...	1021.3	-1	SW	4	cd.	54	85	7	1500	Nb	4	A.St.	10	•
Croydon	1021.7	-1	SW'W	5	od.	54	92	6	800	St	10	-	10	•
Shoeburyness	1021.1	-1	SW'W	6	c	54	97	8	1500	St	9	-	9	3
Clacton-on-Sea ...	1020.8	-2	SSW	4	o	50	85	7	4000	St	10	-	10	3
Felixstowe	1020.4	-3	SW'S	4	c	52	97	7	1500	St.Cu.	10	-	10	•
Lympne	1023.0	-3	SW	5	odd	52	97	1	1150	St	10	-	10	5
Scilly (St. Mary's) ...	1023.5	0	W	6	ffo	53	97	3	800	St	10	-	10	1
Falmouth (Pendennis)	1024.1	0	W'N	6	odd	53	97	6	2500	Nb	10	-	10	•
Plymouth (Mt. Batten)	1023.2	-1	W	6	odd	53	97	5	220	St	10	-	10	•
Portland Bill	1022.1	-4	SW	6	odd	54	97	7	800	St	10	-	10	4
Southampton (Calshot)	1023.1	-2	SW'W	6	odd	53	97	5	800	St	10	-	10	4
Dungeness	1023.2	-2	WSW	4	odd	52	97	6	800	Nb	10	-	10	•
Guernsey (St. Peter Port)	1027.6	-1	SW	3	c	54	97	5	2500	St.Cu.	10	-	10	•

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 13th DECEMBER

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-12h. to 9h. 13th. °F.	Temperature. Max. 9h.-17h. 13th. °F.	Rainfall.† Night 17h.-9h. 12th.-13th. mm.	Rainfall.† Day 9h.-17h. 13th. mm.	Sunshine. Sunrise to Sunset. 13th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	40	52	Trace	-	0.6
Douglas (I. o. M.) ...	co	oid	43	52	2	Trace	0.3
Llandudno ...	cbc	bcc	45	59	2	-	3.1
Colwyn Bay ...	bbcb	bcc	45	58	1	-	3.9
Rhyl	bc	bcc	45	57	1	-	4.5
Wallasey	bcb	bbcc	44	57	2	-	4.7
Southport	bbcb	bcbc	*46	55	5	Trace	3.2
Blackpool	cbc	co	46	53	6	-	1.5
Morecambe ...	cbc	cbcc	42	51	7	-	0.2
Ilkley	c	c	42	52	0.4	-	0.0
Cleethorpes	cb	b	39	51	-	-	3.2
Mablethorpe ...	cbcm	bc	41	51	-	-	3.4
Skegness	cobc	c	42	50	Trace	-	2.5
Aberystwyth ...	mo	mo	46	53	0.3	0.3	0.0
Bath	c	cd	45	56	0.3	Trace	0.0
Cheltenham ...	bcbo	o	46	55	-	-	0.4
Leamington Spa ... delete	~~bbc~~	~~bcco~~	41	55	-	-	0.0
Lowestoft	cbc	bcc	42	51	-	-	2.0
Harwich & Dovercourt	oc	oc	42	48	-	-	0.0
Maldon	c	co	45	53	-	-	0.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	od	od	45	55	1	1	0.0
Bude	odp	odp	47	56	3	4	0.0
St. Ives	omd	omd	49	55	Trace	0.5	0.0
Penzance	od	ordf	50	55	1	0.5	0.0
Paignton	ododp	dodm	47	54	0.3	1	0.0
Torquay	opodp	moddm	47	54	0.2	0.2	1.8
Jersey	bec	becdc	49	53	-	Trace	0.0
Weymouth	oid.	id.	46	53	-	0.5	0.0
Bournemouth ...	d	d	44	52	-	1	0.1
Ventnor ...	co	oz	46	53	-	-	1.2
Portsmouth (S'thsea)	bco	co	45	54	-	-	0.2
Bognor Regis ...	bc	cid.	46	52	0.3	Trace	0.7
Littlehampton ...	bcc	cor.	44	51	-	Trace	0.2
Worthing	cod	od	46	52	-	0.3	0.1
Brighton	cod	d	46	51	-	3	0.8
Eastbourne	bccodd	odd	47	52	-	2	1.6
Hastings	bcbc	cdmd	44	52	-	0.2	2.0
Folkestone	wbc	bcorm	43	52	-	Trace	2.8
Dover	bc	bccod	44	54	Trace	0.1	3.2
Deal	cb	bco	44	53	-	-	1.7
Tunbridge Wells ...	bbcod	od	42	51	-	0.3	2.8
Ramsgate	bc	bc	43	54	-	-	3.2
Margate	bc	bc	44	54	-	-	1.9
Southend	bc	cow	42	51	Trace	Trace	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T., from an auxiliary station.

† For code see page 1.

‡ See footnote page 2.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. & 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24860 SUNDAY, 15th DECEMBER, 1929.

Observations at 18h. G.M.T. 14th

STATIONS (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	996.9	+5	W'S	3	c	45	65	8	1500	StCu	5	ASt	8	•
Stornoway	1002.0	0	W	5	bc h(r)	43	86	7	4000	Nb	5	CiSt	7	•
Wick	1002.8	+1	W	4	c/prs	41	85	8	1500	Nb	8	-	8	•
Tiree	1003.4	+2	W'N	6	bc/RS Ph	46	92	7	2500	CuNb	5	CiSt	6	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1006.3	-1	WSW	4	b	47	55	8	-	-	0	ACu	1	1
Malin Head	1018.5	+3	W'S	6	bc	48	75	7	2500	Cu	5	ACu	7	•
Renfrew	1012.2	+1	WSW	4	bc	47	85	6	2500	Cu	3	ACu	7	2
Edinburgh (Inchkeith)	1010.8	+2	SW	5	bc	47	75	8	1500	St	2	ACu	4	•
Leuchars	1009.0	+1	WSW	4	b-	47	65	8	4000	CuNb	1	ACu	2	2
Eskdalemuir	1013.1	0	WSW	5	c/pr.	45	85	8	1500	StCu	6	ASt	9	2
Tynemouth	1012.1	0	W	3	bc	51	76	7	2500	Cu	4	Ci	5	•
Blacksod Point	1017.5	+4	W	4	c	49	65	8	•	Cu	8	-	8	•
Donaghadee	1015.3	+4	W	2	c+	49	75	7	4000	Cu	8	-	8	•
Birr Castle	1019.5	+3	W	1	or.	47	85	7	2500	Nb	10	-	10	•
Holyhead	1016.9	+2	W'S	4	cd.	51	97	6	450	St	9	ASt	10	2
Liverpool (Bidston)	1016.3	0	NW'W	5	oRR	53	85	7	1500	Nb	10	-	10	•
Manchester (Sealand)	1016.3	0	WSW	3	cr.	56	85	8	800	StCu	9	-	9	2
Harrogate	1014.7	+1	WSW	4	cr.	51	92	8	2500	Nb	9	-	9	•
Spurn Head	1014.5	+1	WSW	5	c+	55	85	7	4000	StCu	8	CiSt	10	•
Birmingham (Edgbaston)	1018.9	0	WSW	5	c+	55	85	8	2500	Nb	10	-	10	2
Cranwell	1016.8	-1	WSW	5	c	57	85	7	1500	StCu	8	CiCu	9	1
Gorleston	1018.2	-1	WSW	3	c	58	85	6	2500	Cu	9	-	9	•
Valentia (Cahirciveen)	1020.8	+2	NNW	3	odd	47	97	7	450	St	10	-	10	2
Roches Point	1020.2	0	WNW	3	odd	50	97	6	800	St	10	-	10	•
Pembroke (St. Ann's H.)	1019.9	-1	SW	4	o/f	52	97	6	450	St	10	-	10	•
Ross-on-Wye	1020.0	0	WSW	4	c	54	85	8	2500	StCu	8	CiSt	9	2
Leafield	1020.4	0	SW	5	o/d	51	97	8	1500	Nb	10	-	10	2
Winchester (Worthy Dn.)	1022.9	0	SW'S	3	c	55	92	8	1500	St	10	-	10	2
S. Farnborough	1022.4	0	SW	4	o	66	85	8	800	St	10	-	10	2
London (Kew Obsy.)	1022.0	0	SSW	4	c/d	57	85	8	1500	StCu	10	-	10	2
Croydon	1022.3	0	W'S	5	c+	57	86	7	1500	StCu	10	-	10	2
Shoeburyness	1022.0	+1	SW	4	c	67	92	7	2500	StCu	8	-	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1020.6	0	WSW	4	c-	55	92	6	1600	StCu	9	-	9	1
Lympne	1023.3	0	WSW	5	o	53	97	7	450	St	10	-	10	2
Scilly (St. Mary's)	1024.8	+1	WSW	5	ffo	63	97	2	800	St	10	-	10	•
Falmouth (Pendennis)	1025.4	0	W	6	odd	53	97	1	220	St	10	-	10	•
Plymouth (Mt. Batten)	1026.1	0	W	5	od.	52	97	5	<150	St	10	-	10	2
Portland Bill	1023.7	+1	SW	5	odd	53	97	6	800	St	10	-	10	•
Southampton (Calshot)	1024.1	0	WSW	4	c-	55	85	7	800	St	9	-	9	1
Dungeness	1024.1	+1	WSW	4	c/d	52	97	6	2500	StCu	10	-	10	•
Guernsey (St. Peter Port)	1028.6	-1	WSW	4	od.	55	97	5	1500	Nb	10	-	10	•

Observations at 18h. G.M.T. 14th

STATIONS	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	999.2	+3	N'W	3	ph(r)	38	92	7	1500	Nb	10	-	10	•
Stornoway	1003.1	+3	WNW	6	bc-	45	85	7	4000	CuNb	4	-	4	4
Wick	1004.5	+3	W	3	c/prs	40	97	8	1500	CuNb	5	CiSt	8	3
Tiree	1013.9	+6	NW	4	bc	47	75	8	2500	StCu	4	-	4	5
Nairn	1007.2	•	W'S	2	bc	42	86	8	2500	Cu	5	-	5	•
Aberdeen	1007.8	+2	WSW	4	b	43	75	7	-	-	0	ACu	1	0
Malin Head	1017.1	+5	W	6	bc/p	47	85	7	4000	Cu	3	-	3	6
Renfrew	1015.3	+4	WSW	4	bc/pr	45	86	7	4000	StCu	5	ACu	6	•
Edinburgh (Inchkeith)	1012.9	+2	WSW	5	bc	45	85	7	800	St	3	-	3	2
Leuchars	1011.1	+3	W	4	b	43	75	8	5700	StCu	<1	ACu	1	•
Eskdalemuir	1015.7	+3	WSW	6	bc	42	75	8	1500	StCu	2	ACu	3	•
Tynemouth	1015.1	+3	W	2	bc	46	85	7	4000	Cu	2	Ci	3	1
Blacksod Point	1019.2	+2	W	3	c	48	75	7	•	Cu	8	-	8	4
Donaghadee	1018.6	+3	W	1	b	44	85	8	-	-	0	CiCu	2	0
Birr Castle	1021.5	+2	SW	1	c	45	92	7	4000	StCu	10	-	10	•
Holyhead	1019.3	+3	W'N	4	c	48	85	8	4000	St	8	ASt	9	1
Liverpool (Bidston)	1019.8	+3	W'N	3	o/d	46	92	8	2500	Nb	10	-	10	•
Manchester (Sealand)	1019.7	+2	WNW	3	cr.	47	85	7	1500	St	10	-	10	•
Harrogate	1018.0	+3	WSW	3	b-	45	85	8	4000	StCu	2	-	2	•
Spurn Head	1016.9	+5	NW'W	4	c	49	85	6	-	-	0	ASt	10	3
Birmingham (Edgbaston)	1019.5	+1	SW	4	odd	52	97	6	1500	Nb	10	-	10	•
Cranwell	1019.1	+3	WNW	3	od.	49	92	6	1500	St	10	-	10	•
Gorleston	1019.2	0	W'S	4	or.	56	86	7	2500	Nb	10	-	10	0
Valentia (Cahirciveen)	1023.7	+3	-	0	c	46	97	8	1500	St	6	ASt	10	2
Roches Point	1022.5	+4	NW	3	c	47	92	8	2500	CuNb	8	-	8	2
Pembroke (St. Ann's H.)	1020.4	+1	WSW	4	odd	53	97	4	450	St	10	-	10	3
Ross-on-Wye	1020.2	0	W'S	4	c/pr	54	85	8	4000	StCu	9	-	9	•
Leafield	1021.1	0	SW'W	5	od.	52	97	8	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	1023.2	0	SW'W	5	c	54	97	7	1500	St	10	-	10	•
S. Farnborough	1022.9	0	SW	5	c	55	92	8	800	St	10	-	10	•
London (Kew Obsy.)	1022.4	0	SW	4	c-	55	85	7	2500	StCu	8	-	8	•
Croydon	1022.7	+1	WSW	5	c-	56	85	6	1500	StCu	9	-	9	•
Shoeburyness	1022.5	+1	SW	2	c	55	97	7	2500	StCu	9	-	9	•
Clacton-on-Sea	1021.7	+1	WSW	4	c	52	92	6	4000	StCu	8	-	8	3
Felixstowe	1021.1	+1	SW'S	4	c	52	97	6	2500	StCu	9	-	9	3
Lympne	1024.2	+1	WSW	4	odd	52	97	6	450	St	10	-	10	•
Scilly (St. Mary's)	1025.7	+1	W'S	6	ffo	52	97	2	800	St	10	-	10	5
Falmouth (Pendennis)	1026.5	+2	W'N	6	odd	53	97	1	220	St	10	-	10	4
Plymouth (Mt. Batten)	1026.6	+1	WSW	5	od.	52	97	5	<150	St	10	-	10	5
Portland Bill	1024.1	+1	SW'W	6	o/f	53	97	5	800	St	10	-	10	6
Southampton (Calshot)	1025.2	+2	WSW	5	odd	53	97	6	450	St	10	-	10	0
Dungeness	1024.2	+1	WSW	4	od.	52	97	6	800	Nb	10	-	10	3
Guernsey (St. Peter Port)	1029.8	+3	SW	4	od.	54	97	5	1500	Nb	10	-	10	5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (N HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 18h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility.
Kew	18	od,c	c	cor f,m	58	46	46	0.1	4	0.0	*	*	4
Croydon	244	od,c	c2.	cod,c	57	47	47	0.2	4	0.1	*	*	4
Greenwich (Royal Obsy.)	149	cid	c	cid,ordr	57	45	44	Tr	5	0.0	87	96	*
City (Bunhill Row)	140	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	89	*	*	*	53	47	46	5	*	0.0	81	96	*
Regent's Pk. (Botanic Gdns.)	27	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	168	*	*	*	*	*	*	*	*	0.0	*	98	*
Kensington Palace	110	od.	oc	*	56	46	*	-	5	*	(At 18h.) 91	94	*
Hampstead Observatory	*80	op.	co.	*	57	46	40	-	5	0.0	*	*	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0.8	12-17h 14th	<0.3	1-6h 15th	0.1	11h 14th	<0.1	5h 15th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 14th 17h. m. to 15th 7h. m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	0.20	2
δ Ursae Minoris	14.0	0.11	1

CODE FOR STATE OF GROUND.

0=Dry ground. 1=Wet ground. 2=Soft (muddy) wet ground. 3=Bare ground frozen (but less than 2 ins. deep). 4=Bare ground frozen (but more than 2 ins. deep). 5=Dew (or wet grass but not wet ground). 6=Snowing to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports). 7=Snow (thin layer, often not continuous). 8=Snow (deep, impeding traffic, usually a continuous layer). 9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

15th DECEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.0	11.48	15.36
	8.1	11.49	15.36
Greenwich	8.1	11.55	15.49
	8.2	11.55	15.49
Wick	8.59	12.7	15.16
	9.0	12.8	15.16
Valentia	8.45	12.36	16.27
	8.45	12.37	16.2

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200-1000 m.
F thick fog, " less than 200 m.
m mist, " 1000-12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
z hoar frost. y dry air.
x 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.
R = heavy rain. r0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = less than (for cloud height). < = before (for precipitation).
⊕ = solar halo. ◎ = lunar halo.

When 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.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

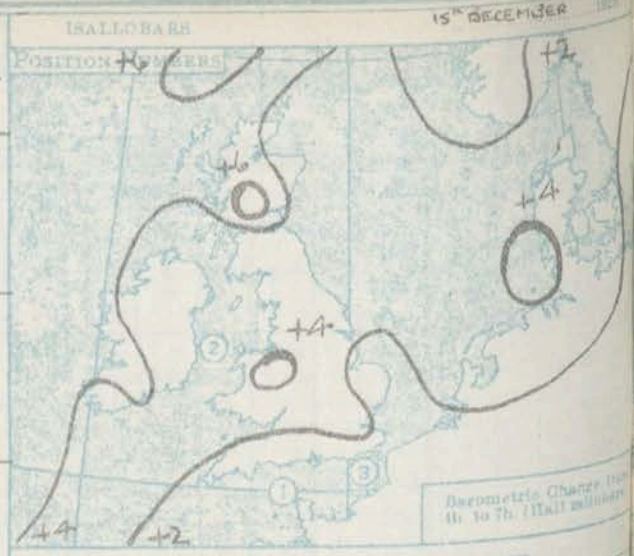
	Objects not visible at 55 yards.
0. Dense fog.	220 "
1. Thick fog.	550 "
2. Fog.	1,100 "
3. Moderate fog.	1½ miles.
4. Mist or haze.	3½ "
5. Poor visibility.	6½ "
6. Moderate.	13½ "
7. Good.	32 "
8. Very good.	
9. Excellent visibility, beyond 32 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 14"	Weather. 18h.-18h. 19"	Weather. 18h. 14" to 1h. 15"	Weather. 1h.-7h. 15"	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Night. 18h.-7h. began.	Sun 14" Hours.
Lerwick	bc c	coihr	oihrpz	cir.bcq	46	37	•	3	14.30	7	<21.00	0.0
Stornoway	p	bcPHrbc	bpr b	c	45	38	•	3	<8.00	0.5	<21.00	0.0
Wick	cprs	cPRS	bapr b	b.bc	41	37	•	3	11.00	2	<21.00	•
Tiree	pr	pR	bcpr	pR	49	40	35	1	11.00	2	<21.00	1.0
Nairn	cbcq	bcq PR	bcx	bc	45	38	•	2	14.30	-	-	1.3
Aberdeen	bcby	by b	bc	bbcc	48	36	28	-	-	-	-	2.7
Malin Head	c	bcbcpr	bpr bccr	cbchr	48	42	•	0.1	15.30	4	<21.00	0.1
Renfrew	orRcbc	bcPRq	bcc pr	circbc	47	39	36	5	<8.00	1	24.00	0.0
Edinburgh (Inchkeith)	cprbc	bcpr	bcc	cbc	47	41	39	1	2.00	-	-	0.3
Leuchars	bcbcp	bbcb	bbwbcw	bcwc	47	37	32	0.1	11.00	-	-	2.0
Eskdalemuir	bcpr	cprcbc	bcpr	bcprbc	45	38	34	0.2	11.00	0.6	<21.00	0.0
Tynemouth	bc	bc	bcb	bc	52	43	39	-	-	-	-	•
Blacksod Point ...	cq	c	c	pcbc	50	44	•	0.2	•	1	•	•
Donaghadee	cprc	cbcb	b	b bcbx ~~cbbx~~	54	40	•	Tr	<8.00	-	-	•
Birr Castle	orcorr	orc	c	cbcb	52	39	29	1	<8.00	-	-	0.0
Holyhead	ffrrm	rmc	cm (1)	cbcb	52	47	44	4	11.00	-	-	0.0
Liverpool (Bidston) ...	cp	opd D	c	bc	54	44	40	2	12.30	-	-	0.0
Chester (Sealand) ...	cvq	crmc	crbc	bc	56	41	35	1	12.30	0.6	<21.00	0.0
Harrogate	cir	crcb	bcb	bcb	53	41	34	0.1	<8.00	-	-	0.6
Spurn Head	c	cpdpro	cpr c	c	55	44	•	0.5	14.30	0.6	<21.00	0.6
Birmingham (Edgbaston)	cbc	bdd	odrbc	bcc	55	43	41	Tr.	15.30	1	<21.00	0.7
Cranwell	c	cdcr	cdr	cm	57	42	40	1	16.30	2	<21.00	0.0
Gorleston	cbcq	cq	orrcq	c	58	45	43	Tr.	-	1	<21.00	0.0
Valentia (Cahirciveen)	oiddd	oddc	c	cbcwbc	51	35	35	1	<8.00	Tr	-	6.0
Roches Point	odd	oidc	c	cbcb	55	43	•	4	<8.00	-	-	•
Pembroke (St. Ann's H.)	ofcm	offdd	odd mc	cpq	53	46	•	1	13.30	Tr	<21.00	0.0
Ross-on-Wye	cbc	c	cidorc	oc	56	45	43	0.1	17.30	1	<21.00	2.0
Leafield	dco	oid	oid	~~oddr~~ odro	53	44	42	0.5	<8.00	1	<21.00	0.0
Winchester (Worthy Dn)	odmc	c	ccd	cd oddm	56	49	48	0.2	<8.00	2	22.00	0.2
S. Farnborough ...	odmc	oc	c	cord	57	49	48	0.1	<8.00	3	3.30	0.9
London (Kew Obsy.) ...	odc	c	cor	orrm	58	46	46	0.1	<8.00	4	24.00	0.0
Croydon	odcm	cz	czmd	cmdom	57	47	47	0.2	<8.00	4	24.00	0.1
Shoeburyness	cdc	c	c	orr	57	44	44	0.1	<8.00	3	1.30	0.2
Clacton-on-Sea ...	ocbc	bcc	c	degrcocr	55	45	44	-	-	3	3.30	0.1
Felixstowe	cm	cbcz	gmr	orcr	57	45	44	-	-	3	22.00	0.1
Lympne	odFom	odm	odmom	oddm	53	48	48	0.2	<8.00	0.6	<21.00	0.0
Scilly (St. Mary's) ...	offid	offid	offd	offr	53	52	•	0.2	<8.00	1	<21.00	0.0
Falmouth (Pendennis)	omFd	ofdq	ofdq	ofmd	53	52	•	0.1	<8.00	0.2	<21.00	0.0
Plymouth (Mt. Batten)	omd	omdq	omdoq	omdd	54	52	50	0.1	<8.00	0.4	<21.00	0.0
Portland Bill	oddz	odfom	oidd	oidfid	54	49	•	1	<8.00	Tr	24.00	•
Southampton (Calshot)	odmc	coddm	oidmc	codom	55	52	52	0.4	<8.00	0.4	<21.00	0.0
Dungeness	oddc	cdo	oddodd	codoa	53	51	•	0.4	<8.00	0.3	<21.00	•
Guernsey	cdod	oded	cdmod	odmod	55	53	52	1	<08.00	2	<21.00	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	14th 10h.	SCOTIA	SW	4	dd	54	52
1	" 12h.	ST. HELIER	W	6	mm	55	53
3	15th 2h.	DIEPPE	W	5	c	55	52

GENERAL INFERENCE.

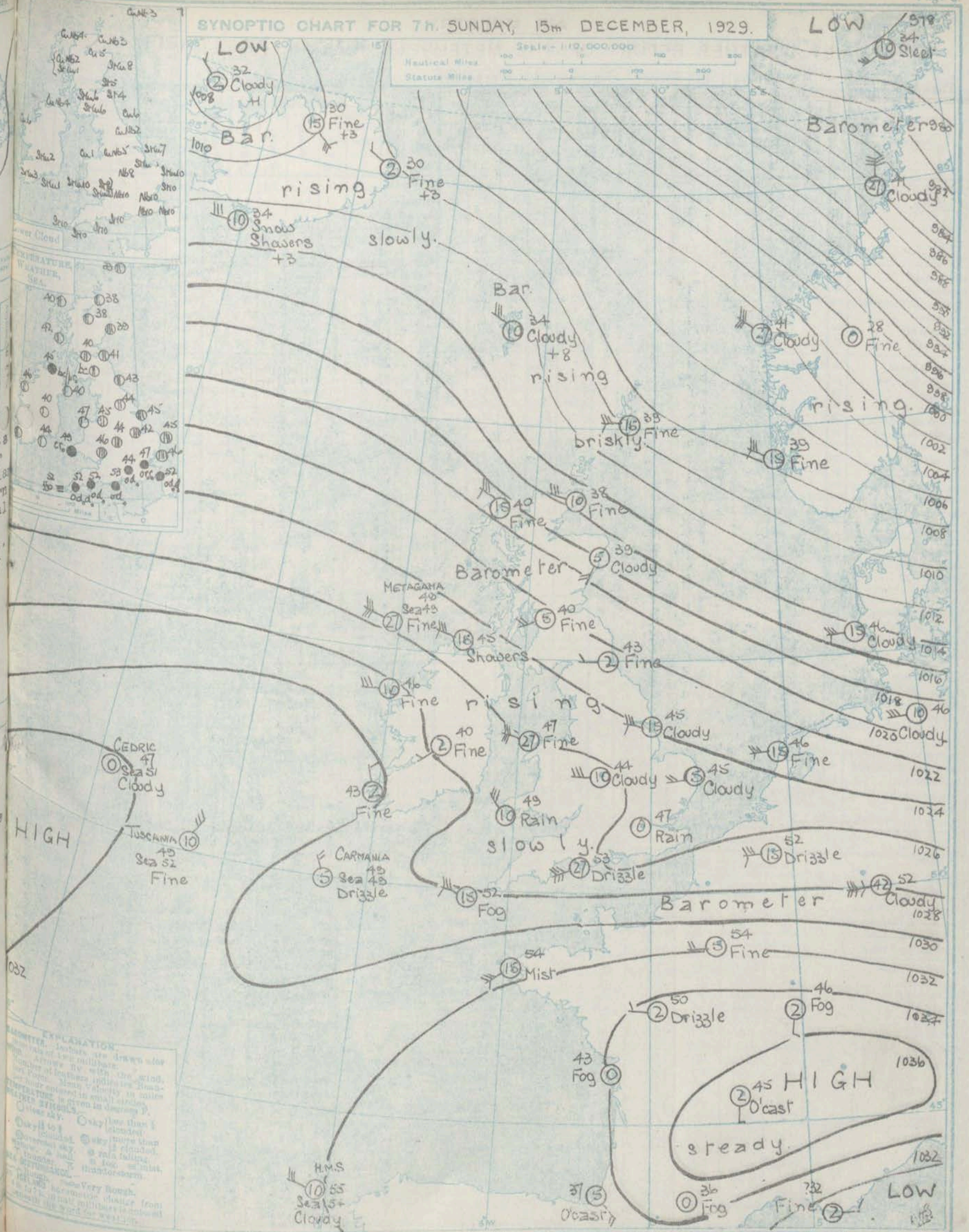
A large anticyclone persists over Southern Europe and another smaller anticyclone west of Ireland is spreading east. Over Southern England cloudy weather with local rain or showers will prevail at first followed by an improvement. Elsewhere weather will be mainly fair apart from local showers.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 15th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Light west to northwest or variable winds, cloudy with some local rain or showers at first, becoming brighter, local mist or fog night and morning, less mild than of late with perhaps local ground frost at night.	Mainly fair in the east, uncertain in the west.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland, B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light west to northwest or variable winds, mainly fair, local mist or fog night and morning, moderate day temperature, local night frost.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1030 G.M.T. — C. C. Simpson, O.B.E., D.Sc., F.R.S., Dir.

† For code see page 1

Trace = rain was taken, but amount too small to measure.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. SUNDAY 15th DECEMBER 1929. No. 349

Stations	Height above M.S.L. in feet	Observations at 1h. G.M.T. 15th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility‡ 0-8	Cloud Low Heights Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Observations at 7h. G.M.T. 15th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility‡ 0-8	Cloud Low Heights Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun. 0-8
Lerwick	34	1006.3	+3	W'N	4	4p	43	85	7	1500	CuNb	5	A.St.	8	1009.4	+4	W'N	4	bcip	39	75	8	1500	CuNb	3	A.Cu	5	•
Stornoway	30	1015.5	+5	NW	4	bc-	•	•	8	•	•	•	•	3	1019.0	+5	NW	4	bc	40	85	7	5700	CuNb	4	-	4	3
Wick	81	1012.1	+6	WNW	4	b	39	85	8	2500	CuNb	2	-	2	1015.8	+3	WNW	3	bc	38	85	8	1500	CuNb	3	Cu.St	5	3
Tiree	28	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.9	+4	NNW	4	bcip	42	92	8	2500	CuNb	3	-	3	4
Nairn	32	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.1	•	W	1	bc	38	85	8	2500	Cu	5	-	5	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.1	+3	SW	2	c	39	75	7	5700	StCu	8	-	8	0
Malin Head	51	1020.9	+2	WSW	3	cr	44	92	7	2500	CuNb	8	-	8	1025.0	+2	WNW	4	bcipr	45	85	8	4000	CuNb	4	-	4	4
Renfrew	50	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.4	+2	WSW	2	bc	40	92	8	4000	StCu	6	Cu	7	•
Edinburgh (Inchkeith)	100	1017.9	+5	W	3	bc	43	85	7	1500	St.	3	A.Cu.	7	1020.5	+2	W	4	bc	41	85	8	1500	St	4	A.Cu	5	1
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.1	+6	W'N	3	c	41	75	8	4000	St	5	Cu.St	9	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.4	+2	W	5	bc	39	85	8	1500	StCu	6	-	6	•
Tynemouth	67	1020.1	+4	W	2	bc+	43	85	7	2500	Cu.	3	C.	4	1021.6	+2	W	1	bc	43	92	7	2500	Cu	6	-	6	1
Blackpool Point ...	18	1023.9	+2	W	4	c	47	75	8	•	Cu.	8	-	8	1028.1	+4	W	3	bc	46	65	8	•	Cu	6	-	6	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.4	+3	WSW	1	b+	40	85	7	4000	Cu	2	-	2	1
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.9	+2	SW	1	b	40	85	8	4000	StCu	2	-	2	•
Holyhead	28	1023.6	+3	W'S	4	c	47	92	6	2500	Cu.	1	A.Cu.	9	1026.0	+3	W'N	6	b	47	85	8	2500	Cu	1	Cu	2	4
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.7	+2	W'N	4	bc	45	85	8	1500	CuNb	5	-	5	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.5	+4	W'S	3	bc-	44	75	7	800	St	4	-	4	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.4	+1	WSW	6	bc	44	75	8	2500	CuNb	2	Cu	3	•
Spurn Head	29	1021.5	+1	NW	4	c-	46	85	7	-	-	0	A.Cu.	8	1023.7	+2	W'N	4	c	45	85	6	4000	StCu	7	Cu.St	10	2
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.9	+2	W	3	c	44	85	8	4000	Nb	8	-	8	•
Cranwell	230	1023.7	+3	W'S	3	c	45	85	6	4000	StCu	9	-	9	1025.8	+2	W'S	3	c	42	92	6	5700	StCu	9	-	9	•
Gorleston	14	1022.9	+2	WSW	2	c	49	92	6	4000	St.Cu	10	-	10	1024.8	+1	W	2	c	45	92	6	4000	StCu	10	-	10	0
Valentia (Cahirciveen)P	30	1026.7	+4	NW	1	0	48	92	8	•	St.	10	-	10	1030.6	+3	NNW	1	bc	43	85	8	2500	StCu	3	Cu.Cu	4	-
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.7	+5	NW	2	b	44	97	8	2500	StCu	1	-	1	2
Pembroke (St. Ann's H.)	150	1025.8	+2	WNW	1	c+	46	97	8	4000	St.Cu.	10	-	10	1027.9	+3	NNW	3	c.r.	49	85	8	4000	StCu	10	-	10	1
Roes-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.0	+2	SW	1	c	46	85	8	2500	St	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.3	+2	WNW	3	od.	44	85	7	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.2	+1	NW	3	odd	49	97	6	450	Nb	10	-	10	•
S. Farnborough ...	287	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.6	+1	WNW	2	od.d.	49	97	6	450	Nb	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	55	•	•	•	•	•	•	•	1026.9	+2	-	0	o.r.r.	47	97	5	1500	Nb	10	-	10	•
Croydon	244	1026.8	+3	W	4	c.d.d.	55	92	6	1500	Nb.	7	A.St.	9	1026.6	+3	-	0	odd	47	97	5	450	Nb	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.7	+1	SW	1	od	46	97	7	1500	St	10	-	10	1
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.9	0	SSW	1	o	46	92	7	2500	St	10	-	10	5
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.4	+1	W	2	cr.	46	92	7	800	St	8	A.St	10	•
Lympne	350	1024.9	+2	WSW	4	o	52	97	6	450	St.	10	-	10	1026.0	+1	W'S	2	odd	48	97	4	450	St	10	-	10	4
Scilly (St. Mary's) ...	163	1027.3	+2	W'S	6	ffo	52	97	2	800	St.	10	-	10	1028.6	+1	WNW	4	ffo	52	97	2	800	St	10	-	10	1
Falmouth (Pendennis)	200	1028.5	+1	W'N	6	od.d.	53	97	1	1150	St.	10	-	10	1028.4	0	WNW	4	od.d.	52	97	5	450	St	10	-	10	3
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.7	+1	WSW	3	od.d.	52	97	6	<150	St	10	-	10	4
Portland Bill	37	1025.2	+3	WSW	6	od.	53	97	6	800	St	10	-	10	1025.5	0	WSW	6	od.	53	97	7	800	St	10	-	10	0
Southampton (Calshot)	10	1026.3	+1	WSW	4	c	53	92	7	800	St.Cu	9	-	9	1026.8	0	W'S	3	cd.d.	53	92	6	800	St	10	-	10	4
Dungeness	20	1025.0	+1	W	5	c-	52	97	7	1500	St.Cu	9	-	9	1025.8	0	WSW	4	od.d.	52	97	6	1500	Nb	10	-	10	4
Guernsey (St. Peter Port)	173	1030.8	0	WSW	3	odd	53	97	5	1500	Nb	10	-	10	1030.8	0	WSW	3	odd	53	97	5	1500	Nb	10	-	10	

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 14th DECEMBER

Stations	Weather: Forenoon.	Weather: Afternoon.	Temperature: Min. 9h. 13 to 9h. 14 °F.	Temperature: Max. 9h. 13 - 17h. 14 °F.	Rainfall†: Night 17h.-9h. 13 - 14 mm.	Rainfall†: Day 9h.-17h. 14 mm.	Sunshine: Sunrise to Sunset. 14th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	45	49	2	-	1.5
Douglas (I. o. M.) ...	oc	cpr	48	49	4	0.5	0.0
Llandudno ...	cd	rcrc	51	54	2	7	0.8
Colwyn Bay ...	cbcr	rorr	51	57	1	3	0.1
Rhyl	bco	odd.	53	56	0.6	2	0.8
Wallasey	cor	iro	48	54	1	3	0.0
Southport	od.o	ro	*51	53	5	2	0.0
Blackpool	oro	or	49	50	7	1	0.0
Morecambe ...	c	coroc	47	50	6	1	0.0
Ilkley	od.	or	47	54	1	2	0.0
Cleethorpes	co	crod	47	57	-	0.5	0.2
Mablethorpe ...	cv	cvod.	45	57	Trace	1	0.0
Skegness	cbo	od	44	57	Trace	-	0.0
Aberystwyth ...	mo	dro	50	61	3	2	0.0
Bath	cid.	cir.	50	56	0.3	0.3	0.0
Cheltenham ...	obco	o	52	53	1	-	0.0
Leamington Spa ...	bc	cod	45	56	0.2	Trace	0.4
Lowestoft	c	c	44	58	Trace	-	1.2
Harwich & Dovercourt	dpc	ocbc	44	56	Trace	-	0.0
Maldon	d.c	c	52	58	Trace	-	0.1
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	od	od	52	55	4	1	0.0
Bude	cdd	cdd	50	55	0.4	2	0.0
St. Ives	o(d.)	o(d.)	52	56	2	Trace	0.0
Penzance	om	odf	53	55	1	0.2	0.3
Paignton	orpdoe	codpe	52	55	3	Trace	0.7
Torquay	ddoem	dpoe	52	56	2	Trace	0.0
Jersey	pcc	cpc	49	?	0.2	1	0.0
Weymouth	ce	oem	52	54	1	Trace	0.0
Bournemouth ...	o	o	49	54	1	-	0.0
Ventnor ...	omrou	rmo	50	53	2	Trace	0.0
Portsmouth (S'thsea)	o	o	49	55	0.6	-	0.0
Bognor Regis ...	oid.	oid.	50	53	1	1	0.1
Littlehampton ...	or.c	codo	48	53	1	0.3	0.0
Worthing	oid	oid	50	53	1	0.3	0.0
Brighton	odo	odo	49	53	3	Trace	0.0
Eastbourne	omedo	od.d.	52	55	1	0.4	0.0
Hastings‖	fod.	ododf	51	54	2	0.4	0.0
Folkestone	orfom	om	46	54	0.3	0.3	0.0
Dover	oid.	id.oc	47	55	0.3	Trace	0.2
Deal	o	oc	47	56	-	-	0.0
Tunbridge Wells ...	od	o	46	55	0.5	Trace	0.2
Ramsgate	c	co	46	56	-	-	0.3
Margate	cbc	bcc	48	58	-	-	0.1
Southend	oc	o	46	64	Trace	-	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. ‖ The observations at 1h. G.M.T. from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-9h., the minimum for the period 21h.-9h. ‖ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24861 Monday 16th December 1929.

Observations at 15h. G.M.T. 15h.

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1014.9	+6	W'N	2	bc/jp	39	85	8	1500	Cu Nb	3	A Cu	5	•
Stornoway	1023.9	+5	W	3	bc°	41	92	7	4000	Cu Nb	4	A Cu	5	•
Wick	1021.5	+7	WNW	3	bc	40	85	8	1500	Cu Nb	4	-	4	•
Tiree	1027.7	+6	NW'W	5	bc/jp	45	85	8	2500	Cu Nb	5	-	5	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1023.6	+4	WNW	2	b	43	65	8	4000	Cu Nb	1	-	1	1
Malin Head	1030.0	+4	WNW	4	bc/jp	46	75	8	4000	Cu Nb	4	-	4	•
Renfrew	1027.6	+4	W	2	b	45	85	7	2500	Cu Nb	1	-	1	2
Edinburgh (Inchkeith)	1026.3	+6	WSW	3	b	43	85	7	1500	St	1	A Cu	2	•
Leuchars	1025.5	+5	W	3	b-	42	75	8	4000	St Cu	1	Ci	1	2
Eskdalemuir	1027.4	+5	WNW	5	bc	41	85	8	2500	Cu	2	Ci	3	2
Tynemouth	1025.4	+3	WNW	2	bc-	44	85	6	2500	Cu	4	-	4	•
Blacksod Point	1033.0	+4	WNW	3	bc	46	75	8	•	Cu	7	-	7	•
Donaghadee	1029.7	+5	W	2	bc+	43	85	7	4000	St Cu	5	-	5	•
Birr Castle	1035.4	+2	SW	1	bc	40	92	8	-	-	0	Ci Cu	7	•
Holyhead	1030.4	+3	NW	5	bc	47	85	8	1500	Cu	2	Ci	6	1
Liverpool (Bidston)	1029.8	+3	WNW	5	bc+	46	75	8	2500	St Cu	4	Ci	6	•
Manchester (Sealand)	1029.3	+4	WNW	4	bc/pp	48	75	6	800	St	5	Ci	6	1
Harrogate	1027.6	+1	SW	3	bc	46	75	8	4000	Cu	1	Ci	6	•
Spurn Head	1025.8	0	NW'W	5	bc	45	85	6	5700	St Cu	2	Ci Cu	7	•
Birmingham (Edgbaston)	1030.1	+1	W'NW	3	bc-	46	65	7	2500	Cu	1	Ci	3	2
Cranwell	1028.4	+2	WNW	4	bc	46	75	6	4000	St Cu	1	A Cu	4	1
Gorleston	1026.8	+2	W'N	3	bc-	46	92	6	-	-	0	A Cu	5	•
Valentia (Cahirciveen)	1033.9	+1	N	2	c+	48	75	9	4000	Cu	2	Ci St	8	2
Roches Point	1033.2	+3	NW	3	bc	45	92	8	2500	St Cu	2	Ci	5	•
Pembroke (St. Ann's H.)	1031.9	+2	NNW	3	c+	47	85	8	4000	Cu	2	A Cu	8	•
Ross-on-Wye	1030.4	+2	NW	2	bc	48	65	8	4000	Cu	1	Ci Cu	4	2
Leafield	1029.8	+1	NW	4	bc	46	75	8	-	-	0	Ci St	7	2
Winchester (Worthy Dn.)	1029.8	+1	NW'W	2	c	46	85	8	2500	St	5	A St	9	2
S. Farnborough	1030.2	+2	W	1	c-	47	85	6	7200	St Cu	5	Ci	9	2
London (Kew Obsy.)	1030.2	0	W	2	bc⊕	48	85	5	-	-	0	Ci St	7	2
Croydon	1029.9	+1	NW'W	3	c/d	47	85	4	-	-	0	A St	9	2
Shoeburyness	1028.9	+1	WNW	1	bc/r	48	92	7	5700	St Cu	1	A St	6	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1028.2	0	NW'W	3	c	48	85	7	-	-	0	A Cu	8	2
Lympne	1029.2	+2	NW	2	or$_o$r$_o$	45	97	5	220	St	10	-	10	2
Scilly (St. Mary's)	1032.9	+4	NNE	4	c	48	92	7	4000	St Cu	9	-	9	•
Falmouth (Pendennis)	?	+5	NNE	3	cd$_o$	48	85	8	4000	St Cu	2	A St	10	•
Falmouth (Mt. Hatton)	1032.0	+2	N	3	c	49	75	8	4000	St Cu	9	-	9	2
Portland Bill	1030.6	+5	NW	3	c/d	47	85	7	1500	St Cu	10	-	10	•
Southampton (Calshot)	1030.6	+2	NW	2	c	48	85	7	4000	St Cu	8	A St	10	1
Dungeness	1029.8	+5	NW	2	or$_o$r$_o$	46	97	6	1500	Nb	10	-	10	•
Guernsey (St. Peter Port)	1032.8	+2	-	0	odd	51	97	5	1500	Nb	10	-	10	•

Observations at 18h. G.M.T. 15h.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1018.8	+3	W	1	b	39	75	8	1500	St Cu	1	A St	2	•
Stornoway	1026.8	+3	W	3	bc/pp	41	92	7	4000	Cu Nb	3	A Cu	4	2
Wick	1024.3	+4	WNW	3	bc/pp	36	97	8	1500	Nb	4	A Cu	6	0
Tiree	1030.4	+3	NW	5	bc/jp	45	75	8	2500	Cu Nb	5	Ci St	6	4
Nairn	1026.8	•	W	1	bc	38	75	8	2500	Cu Nb	6	-	6	•
Aberdeen	1026.3	+3	W	4	b	39	76	7	-	-	0	A Cu	1	0
Malin Head	1032.6	+5	NW	4	bc	46	75	8	4000	Cu	3	Ci Cu	4	4
Renfrew	1030.7	+3	-	0	b	38	85	7	5700	St Cu	2	-	2	•
Edinburgh (Inchkeith)	1029.1	+4	WSW	3	bc	40	85	7	1500	St	3	-	3	1
Leuchars	1028.4	+4	W'S	3	b	35	85	8	4000	Cu	1	-	1	•
Eskdalemuir	1031.4	+4	NW'W	2	bc	35	85	8	2500	Cu	2	Ci	4	•
Tynemouth	1029.2	+3	W	2	bc	39	92	6	2500	Cu	3	-	3	1
Blacksod Point	1034.4	+2	W	2	c	42	75	8	•	-	0	A St	10	5
Donaghadee	1032.1	+3	W	2	bc	40	85	7	4000	Cu	7	-	7	•
Birr Castle	1035.0	+1	NW	1	c	37	97	6	-	-	0	A St	10	•
Holyhead	1032.5	+3	NW	4	c	46	75	8	2500	St Cu	3	Ci St	8	1
Liverpool (Bidston)	1031.9	+2	NW'W	4	bc-	44	85	8	2500	Cu Nb	3	Ci St	4	•
Manchester (Sealand)	1021.5	+2	W'N	2	b-	41	92	7	1500	Cu	2	-	2	•
Harrogate	1030.6	+3	SW	3	bc	38	92	7	-	-	0	Ci St	5	•
Spurn Head	1028.8	+2	NW'N	4	c	44	85	7	~~2500~~	~~St Cu~~	~~8~~	A St	8	3
Birmingham (Edgbaston)	1032.4	+3	WNW	2	mmb	42	85	4	-	-	0	-	0	•
Cranwell	1030.9	+3	W	3	bc	40	85	6	-	-	0	A Cu	7	•
Gorleston	1029.5	+4	WNW	2	bc-	43	85	6	-	-	0	Ci St	4	0
Valentia (Cahirciveen)	1036.0	+1	N'E	1	c	42	85	8	4000	St	3	A St	9	0
Roches Point	1034.4	+2	NW	2	c	43	97	8	4000	St Cu	10	-	10	2
Pembroke (St. Ann's H.)	1033.4	+2	NNW	1	bc-	43	97	8	2500	Cu	3	Ci St	6	1
Ross-on-Wye	1031.8	+2	N'W	1	c	43	75	8	-	-	0	A Cu	9	•
Leafield	1032.3	+2	NW	3	c+	40	85	8	-	-	0	A Cu	8	•
Winchester (Worthy Dn.)	1032.2	+3	NW'W	1	c	43	92	7	4000	St Cu	7	A Cu	9	•
S. Farnborough	1032.4	+3	WNW	1	c	42	92	6	7200	St Cu	9	-	9	•
London (Kew Obsy.)	1032.4	+2	W	2	mmc	45	85	4	-	-	0	A Cu	8	•
Croydon	1031.9	+2	NW'W	2	mmc	44	85	4	-	-	0	A Cu	8	•
Shoeburyness	1031.5	+2	WNW	1	c	43	92	7	4000	St Cu	5	A Cu	8	•
Clacton-on-Sea	1030.6	+2	WNW	3	bc	43	85	7	-	-	0	A Cu	5	1
Felixstowe	1030.6	+2	NW'W	2	c	43	92	6	-	-	0	A Cu	8	0
Lympne	1031.7	+3	NW	1	fc+	42	92	3	5700	St Cu	8	-	8	•
Scilly (St. Mary's)	1033.3	0	NE	4	c	48	75	8	4000	St Cu	9	-	9	4
Falmouth (Pendennis)	?	+1	NE	2	c	48	75	7	4000	St Cu	7	A St	10	0
Falmouth (Mt. Hatton)	1033.2	+1	-	0	c	47	85	7	4000	St Cu	10	-	10	1
Portland Bill	1032.2	+1	NNW	3	c	47	85	7	1500	St Cu	10	-	10	3
Southampton (Calshot)	1032.7	+2	NW'W	2	c	45	92	6	4000	St Cu	3	A Cu	9	0
Dungeness	1031.2	+3	NW	1	c-	44	97	6	4000	St Cu	8	A Cu	9	2
Guernsey (St. Peter Port)	1034.0	+2	NE	1	c	47	92	8	1500	St Cu	10	-	10	3

LONDON OBSERVATIONS.

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

Kew	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 7h.)	Weather. Afternoon. (24 hours ended 7h.)	Weather. Night. (24 hours ended 7h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 18h. G.M.T. % (Yesterday.)	Humidity. 18h. G.M.T. % (To-day.)	Visibility. (To-day.)
Croydon	18	r r$_o$ r$_o$ bc	bc m c m	c w f/ bc m	48	38	29	1	-	0.6	*	*	3
Greenwich (Royal Obsy.)	244	d r f/ d d	c bc m	bc bc m w	45	37	31	4	Tr	0.3	*	*	2
City (Bunhill Row)	140	o c r d	c	c w d x f	48	37	29	1	Tr	0.0	74	85	3
Westminster (St. James' Pk.)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Regent's Pk. (Botanic Gdns.)	27	*	*	*	50	39	30	--	--	0.0	72	91	*
Camden Square	160	*	*	*	*	*	*	*	*	0.0	*	*	*
Kensington Palace	110	o r c	c b c c	*	47	38	*	0.3	-	*	*	95	*
Hampstead Observatory	80	o r	o r b c	*	52	37	29	1	-	*	(At 18h.) 77	92	*
	450	*	*	*	47	33	27	1	Tr	1.0	*	93	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.0	9h. 15m.	0.3	6h. 16m.

Kew Observatory Max.	Time.	Min.	Time.
0.4	21h. 15m.	0.1	1h. 16m.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 15h. 17m. 00s.m. to 16h. 7m. 00s.m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.00	3.28	25
β Ursae Minoris	14.00	2.00	14

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice as roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

For the December ....., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.1	11.43	16.36
	8.2	11.49	16.36
Greenwich	8.2	11.55	16.43
	8.3	11.54	16.43
Wick	9.0	12.8	15.16
	9.1	12.8	15.14
Valentia	8.45	12.37	16.27
	8.46	12.37	16.27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—10000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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(y)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

< = less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

With present weather is combined, wherever 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.

SEA DISTURBANCE.

0=no swell	Calm or slight sea.
1=mod. swell	
2=heavy swell	
3=no swell	Moderate sea.
4=mod. swell	
5=heavy swell	
6=rather rough sea.	
7=rough sea.	
8=very rough sea.	
9=mountainous sea.	

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
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.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

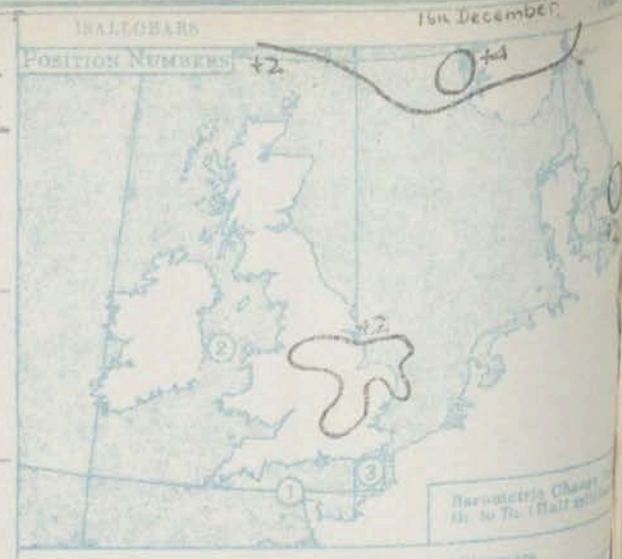
SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 15h.	Weather. 18h.-18h. 15h.	Weather. 18h. 15h. to 18h. 16h.	Weather. 18h.-7h. 16h.	Temperature. Max. Day 7h.-18h.	Temperature. Min. Night 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day, 7h.-18h. mm	Rainfall.† Day, 7h.-18h. began.	Rainfall.† Night, 18h.-7h. mm.	Rainfall.† Night, 18h.-7h. began.	Sun 15h. Hours.
Lerwick	bc th r	bc th b	bc r	bc r	41	36	*	1	18.00	2	21.00	0.1
Stornoway	bc pr	p	b s b	bc phr	41	36	*	3	11.00	4	21.00	1.2
Wick	bc PH	bc PR	c b	c pr bc	40	35	*	2	18.00	5	23.00	*
Tiree	pr	ph pr	c	c bc	46	43	34	0.5	9.00	-	-	2.7
Nairn	bc	bc pr x	bc x	bc	40	33	*	0.6	15.30	-	-	4.3
Aberdeen	c b c b	b	b x	b x	44	34	24	-	-	-	-	3.5
Malin Head	bc pr	bc	bc	bc b	47	39	*	0.3	18.00	-	-	2.5
Renfrew	bc c b	b b c b	b bc x	b bc x	45	31	24	1	18.00	-	-	4.7
Edinburgh (Inchkeith)	bc b	b bc	bc m	bc m	43	37	35	-	-	-	-	4.3
Leuchars	c bc v b	b, b w	b w b x	b x c x	43	31	23	-	-	-	-	4.7
Eskdalemuir	bc pr bc	bc w	b w bc x	bc x	41	30	25	0.2	9.00	-	-	4.0
Tynemouth	bt	bc	bc	bc	45	35	32	-	-	-	-	*
Blacksod Point ...	bc	bc c	c	c	46	38	*	-	*	-	*	*
Donaghadee	b bc	bc	bc	bc	44	34	*	-	-	-	-	*
Birr Castle	b bc	bc c	c bc	bc b f f x	43	27	16	-	-	-	-	1.7
Holyhead	b bc	bc c	c	bc w	48	40	32	-	-	-	-	4.2
Liverpool (Bidston) ...	bc	bc	bc c bc	bc b w	46	41	35	-	-	-	-	3.3
Chester (Sealand) ...	bc m pr	bc ph m	bc p c	p c b m	48	29	23	Tr	1.30	0.2	24.00	4.0
Harrogate	b bc	bc	bc	bc b x	47	32	23	-	-	-	-	4.6
Spurn Head	c bc	bc c	c	c b c b	46	38	*	-	-	-	-	2.1
Birmingham (Edgbaston)	c bc	bc b	b m	b m x	47	35	28	-	-	-	-	3.2
Cranwell	c m bc	bc c	b c m	c m b m x	47	33	30	-	-	-	-	2.4
Gorleston	c bc	bc	b c c	c b c x	46	34	31	-	-	-	-	1.2
Valentia (Cahireiveen)	bc v c v	c v c	c b c w	b c w b c x	48	32	29	-	-	Tr	-	3.1
Roches Point	b bc	bc c	c	c b c w	46	37	*	-	-	Tr	4.30	
Pembroke (St. Ann's H.)	c p bc c	c bc	b c c	c bc	49 ~~47~~	39	*	0.2	18.00	-	-	2.4
Ross-on-Wye	p c bc	c b c c	c b c c	c b x	49	32	21	Tr	9.00	-	-	3.2
Leafield	c d bc	bc	b	b x	47	34	27	0.2	18.00	Tr	-	2.7
Winchester (Worthy Dn.)	o d m r r c	c	c	c b c b x	49	33	26	3	18.00	-	-	0.1
S. Farnborough ...	o d r h c	c b c c	c m w	c w b r m	~~47~~ 49	33	24	4	18.00	Tr	-	0.3
London (Kew Obsy.) ...	c r r m h m	b c m c m	c m b f c m	c m b m y	46	38	28	1	18.00	-	-	0.6
Croydon	o d d r f f d d	c b c m	b c c m	c b c b m w	48	37	31	4	18.00	Tr	-	0.3
Shoeburyness	o r r c	bc	b	b m b	49	35	33	1	18.00	-	-	0.7
Clacton-on-Sea ...	o g p r c	c b c	b c	b c b m	49	37	33	0.6	9.00	-	-	1.2
Felixstowe	o r r c	c b c c z	c z b c m	b c b w m	48	35	31	0.3	18.00	-	-	1.0
Lympne	o d d f r f m	o r c m f	c f m	c b m	50	35	31	4	18.00	-	-	0.0
Scilly (St. Mary's) ...	o f f c r	c	c r	c r c	52	43	*	1	18.00	3	21.00	0.0
Falmouth (Pendennis)	o m d c	c d	c r	c r	53	42	*	1	18.00	0.6	21.00	0.0
Plymouth (Mt. Batten)	o m d c	c r	c b	b w b c	52	41	34	0.5	18.00	Tr	-	0.0
Portland Bill	o r d	o	o	o c b c	53	40	*	3	18.00	-	-	*
Southampton (Calshot)	c d d m c r r	c m	c m c	c b c b w	54	39	35	3	18.00	-	-	0.0
Dungeness	o d d o r r r	o r r o c	c z	c z b c	53	37	*	5	18.00	-	-	*
Guernsey	o d m o d	c d d f c	o c o d	o d p r c	54	44	40	4	18.00	1	24.00	0.0

† For code see page 1

* Trace = rain has fallen, but amounts too small to measure.

16th December



Observations from Cross Channel Steamers.

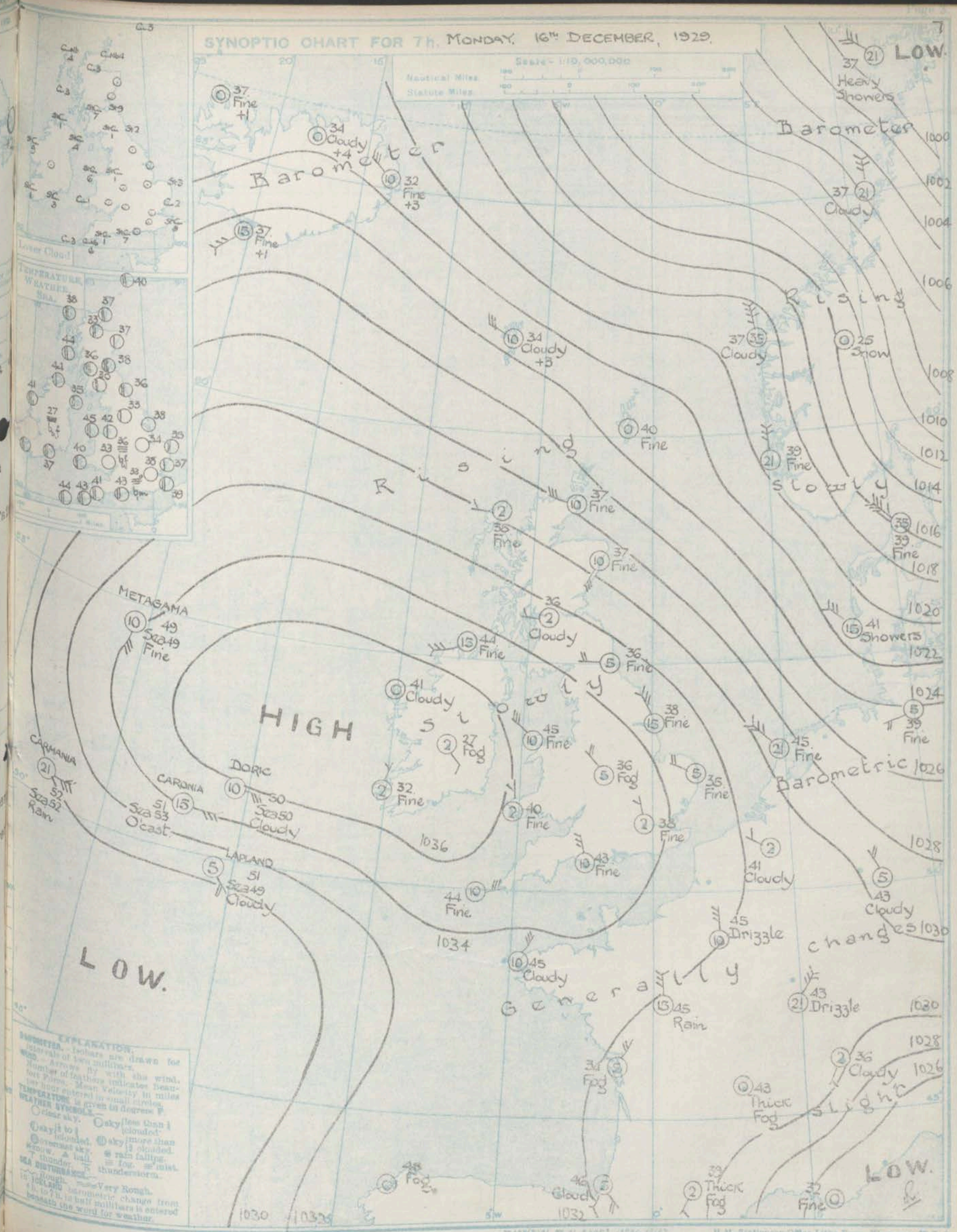
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
3	16th 2h	Arden 35x	N	3	C	49	52

GENERAL INFERENCE.

A large anticyclone with centres over Ireland and Spain is drifting slowly eastwards. Weather will be fair and quiet generally today, but considerable fog will develop tonight and persist locally through tomorrow.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 16th December, 1929.	Farther Outlook.
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 breeze; mainly fine today; much fog developing tonight and persisting locally tomorrow; moderate day temperature today, frost locally at night.	Quiet weather, much fog especially over England.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. (A) W. Scotland (B) N.W. Scotland	Wind west to variable, light; fair today; fog developing tonight and persisting locally tomorrow; moderate day temperature; night frost.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind west, moderate to light; mainly fair apart from a few local showers; moderate day temperature; frost inland at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 1 - 10.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1000 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 16th December 1929. No. 350

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 16th. Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 16th. Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-8
Lerwick	34	1021.3	+2	W'N	3	bcjp	40	75	8	1500	CuNb	3	A.St.	6	1022.8	+2	–	0	bc	40	85	8	1500	Cu	3	–	3	*
Stornoway	30	1028.8	+2	WNW	3	bc	*	*	8	*	*	*	*	3	1028.3	0	W	1	bc	38	97	7	4000	CuNb	4	–	4	0
Wick	31	1026.2	+1	WNW	3	c	37	92	8	1500	CuNb	6	C.St.	9	1026.8	+1	WNW	3	bc	37	92	8	1500	CuNb	4	ASt	6	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.8	0	W'N	6	bc	44	85	8	2500	Cu	3	ACu	4	5
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.9	*	–	0	bc-	33	85	8	4000	Cu	3	–	3	*
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.0	+1	SW	3	b	37	75	7	–	–	0	ACu	1	0
Malin Head	61	1031.6	+1	WSW	3	bc	42	85	8	4000	Cu	1	A.Cu	6	1034.9	0	WSW	4	b	44	75	8	5700	StCu	4	ACu	1	3
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.8	0	W	1	c+	36	85	7	4000	StCu	7	Ci	8	*
Edinburgh (Inchkeith)	100	1031.0	+2	WSW	3	bc	38	92	5	800	St.	3	C.Cu	5	1032.7	+2	WSW	2	c	38	92	5	800	St	9	–	9	0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.5	0	WSW	3	c	35	85	7	–	–	0	Ci	9	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.0	+1	SE'S	2	bc	30	97	8	2500	StCu	1	Ci St	7	*
Tynemouth	67	1031.5	+2	W	2	bc-	36	92	7	2500	Cu.	4	–	4	1032.8	+1	W	2	bc	36	85	6	800	St	2	Ci	7	1
Blacksod Point	18	1035.6	+1	–	0	c	44	65	8	*	St.Cu	8	–	8	1036.2	+1	–	0	c	41	75	8	*	StCu	8	–	8	1
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.9	+1	W	1	bc	35	85	7	5700	StCu	4	CiCu	6	0
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.5	+1	SE	1	fgb	27	97	2	–	–	0	–	0	*
Holyhead	28	1034.5	+1	N	3	bc-	44.5	75	8	2500	Cu.	2	C.St.	4	1035.6	+1	NW	3	bc	45	65	8	4000	StCu	6	–	6	1
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.7	+1	N'W	3	b	42	85	8	2500	StCu	1	–	1	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.9	+2	WNW	1	b	30	97	5	2500	Cu	2	–	2	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.8	+1	SW	1	b	33	85	8	–	–	0	ACu	1	4
Spurn Head	20	1032.0	0	NW'N	5	c	41	92	6	5700	St.Cu	4	C.St.	10	1033.5	+1	NNW	4	b	38	92	7	–	–	0	–	0	*
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.4	+1	NW	2	fb+	36	97	3	–	–	0	–	0	*
Cranwell	239	1033.3	+1	WNW	3	c	38	85	5	1500	St.	4	C.St.	10	1034.7	+2	NW	3	b-	34	92	6	–	–	0	–	0	0
Gorleston	14	1032.1	+2	NW	2	c	39	97	6	–	–	0	A.St.	10	1033.0	+2	WNW	2	bc-	35	97	6	1500	St	3	–	3	0
Valentia (Cahirciveen)P	30	1035.7	+1	SE	1	bc-	40	97	9	*	–	0	C.Cu.	6	1036.8	+1	NNE	1	bc	32	97	8	4000	StCu	1	C.St.	5	–
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.6	+1	N	2	bc	37	95	8	2500	StCu	3	C	6	1
Pembroke (St. Ann's H.)	150	1034.4	+1	N	1	c+	43	97	8	2500	Cu.	3	C.Cu.	10	1035.6	+1	N	1	bc-	40	92	8	2500	Cu	1	C.St.	5	1
Ross-on-Wye	233	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.5	+1	SW	1	b	33	92	8	–	–	0	–	0	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.4	+1	N	1	b	35	97	7	–	–	0	ACu	1	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.4	+1	NW'N	2	b	33	97	7	4000	StCu	1	–	1	*
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.8	+2	–	0	mb+	33	97	4	–	–	0	Ci	1	*
London (Kew Obsy.)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	1035.2	+3	NNW	1	b	38	92	5	–	–	0	–	0	*
Croydon	244	1034.2	+2	NW'W	1	c+	41	92	6	4000	St.Cu	4	A.St.	9	1034.8	+1	NNW	2	mmb	37	92	4	–	–	0	–	0	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.3	+1	W	3	b-	36	97	6	–	–	0	–	0	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.3	+1	NW	3	b	37	92	6	2500	Cu	2	–	2	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.5	+2	NNW	3	mmb	35	97	4	–	–	0	–	0	0
Lympne	369	1034.6	+1	NW'N	2	c	40	85	5	4000	St.Cu	10	–	10	1033.3	+1	NNW	3	b-	36	92	5	5700	StCu	1	–	1	*
Scilly (St. Mary's)	163	1035.0	+1	ENE	2	c6	44	85	8	4500	St.	9	–	9	1035.1	0	E'N	3	bc	44	85	8	4000	Cu	3	ACu	6	1
Falmouth (Pendennis)	200	1035.4	+2	–	0	c6	44	75	7	4000	St.Cu	10	–	10	1036.0	0	N	1	bc-	43	75	7	4000	CuNb	6	–	6	0
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.3	+1	N	1	bc	41	85	8	4000	StCu	1	ACu	3	1
Portland Bill	32	1034.9	+2	NNW	3	c	46	75	7	1500	St.Cu.	10	–	10	1034.2	+1	NNW	3	bc-	43	85	7	1500	StCu	7	–	7	3
Southampton (Calshot)	10	1034.3	+2	NW	3	c	45	75	7	4000	St.Cu.	4	A.Cu.	9	1034.9	+1	NNW	3	b-	39	85	7	–	–	0	ACu	1	0
Dungeness	30	1034.0	+1	NNW	1	c	42	92	6	4500	St.Cu	9	–	9	1033.4	+1	NNW	2	bc-	39	92	6	2500	StCu	3	–	3	2
Guernsey (St. Peter Port)	177	1034.6	+1	NE	2	cd.	49	85	7	1500	StCu	10	–	10	1035.0	0	ENE	2	bc-	47	75	9	2500	StCu	8	–	8	3

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 15th December

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 14th to 9h. 15th.	Temperature. Max. 9h. 15th to 9h. 16th.	Rainfall.† Night 17h. 14th–9h. 15th.	Rainfall.† Day 9h. 15th–17h. 15th.	Sunshine. Sunrise to Sunset. 15th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			deg.	deg.	mm.	mm.	hr.
Berwick-on-Tweed	bc	bc	40	44	–	–	4.3
Douglas (I. o. M.)	bc	bc	42	45	–	–	2.8
Llandudno	bc	bcc	45	48	Trace	–	2.5
Colwyn Bay	coc	c	44	47	1	–	0.0
Rhyl	bc	bc	45	48	–	–	2.9
Wallasey	bcb	bbc	44	49	Trace	–	2.0
Southport	bbcb	bbc	*46	47	–	–	5.2
Blackpool	bc	bcc	45	47	0.2	–	5.3
Morecambe	cb	bc	44	46	–	–	4.5
Ilkley	bc	bc	41	46	–	–	2.8
Cleethorpes	cb	b	41	47	0.2	–	2.0
Mablethorpe	bcm	bcm	41	47	1	–	1.0
Skegness	obc	bc	44	56	2	–	3.2
Aberystwyth	bc	c	45	48	3	–	2.8
Bath	rrcbc	bcc	47	48	5	0.5	0.1
Cheltenham	obcb	bbc	44	54	1	–	2.4
Leamington Spa	b	bbc	43	48	4	–	2.3
Lowestoft	cbc	b	44	46	2	–	1.4
Harwich & Dovercourt	roc	bc	45	48	3	–	1.1
Maldon	roc	bc	46	49	5	–	1.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	ocbc	bcc	46	50	8	–	1.8
Bude	c	b	46	52	5	–	0.0
St. Ives	om (d)	omg	47	50	4	0.3	0.0
Penzance	om	oc	48	50	3	–	0.0
Paignton	oddm	odopo	47	48	–	0.3	0.0
Torquay	oddm	odrpm	48	49	1	Trace	0.0
Jersey	pc	cd	52	54	0.2	0.3	0.0
Weymouth	odg	sc	47	48	2	0.3	0.0
Bournemouth	odo	o	47	49	2	2	0.0
Ventnor	orm	oc	51	52	2	2	0.2
Portsmouth (S'thsea)	orb	cb	!	48	2	1	0.0
Bognor Regis	oidc	cbc	52	53	2	1	0.0
Littlehampton	or	obcc	51	51	2	1	0.0
Worthing	od	odc	51	51	3	1	0.0
Brighton	roc	cbc	50	51	3	2	0.0
Eastbourne	rrdd	ddoc	52	53	4	3	0.0
Hastings‡	or or	oc	52	54	4	2	0.0
Folkestone	orcm	orcbc	45	47	2	3	0.0
Dover	orr	orbcm	47	48	2	4	0.0
Deal	rro	ocb	46	49	2	5	0.0
Tunbridge Wells	oro	oc	46	49	3	4	0.0
Ramsgate	dro	oc	44	51	1	4	0.0
Margate	crc	bc	45	47	3	3	0.6
Southend	od	ocbcc	45	47	3	0.4	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T. from an auxiliary station. † For code see page 1. ‡ See footnote page 4.

† At stations marked thus the maximum temperature is for the period 21h.–17h., the minimum for the period 21h.–9h. ‡ 17h.–9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,862 Tuesday 17th December 1929. Page 1.

Observations at 13h. G.M.T. 16h.

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1026.3	0	W	2	bc	42	65	8	1500	StCu	3	ACu	4	•
Stornoway	1032.0	+3	W	2	bc	43	82	7	5700	CuNb	4	CiSt	5	•
Wick	1030.0	+4	WNW	3	bc	40	97	8	1500	CuNb	4	ACu	7	•
Tiree	1034.0	+2	NW	3	bc	45	85	8	1500	CuNb	2	–	2	1
Nairn	•	•	•	4	bc	•	•	•	•	•	•	•	•	•
Aberdeen	1031.3	0	W'N	3	b	43	75	8	2500	CuNb	1	–	1	3
Malin Head	1036.6	+1	WSW	4	bjp	46	85	8	4000	StCu	2	–	2	•
Renfrew	1035.2	+1	W	3	bc	45	75	7	2500	Cu	4	–	4	2
Edinburgh (Inchkeith)	1032.9	0	WSW	3	bc	42	85	5	800	St	3	ACu	4	•
Leuchars	1032.8	+2	WSW	3	b	41	75	8	2500	Cu	1	–	1	2
Eskdalemuir	1036.2	0	SW	3	bc	38	85	8	2500	StCu	7	–	7	2
Tynemouth	1034.0	0	W	2	bc	43	75	6	800	St	3	–	3	•
Blacksod Point	1039.0	+1	–	0	bc	46	65	9	•	StCu	6	–	6	•
Donaghadee	1036.9	0	W	1	b	42	75	7	4000	Cu	1	–	1	•
Birr Castle	1040.2	+1	S	1	b	39	97	8	4000	StCu	2	–	2	•
Holyhead	1038.0	+1	W'N	3	bc	48	55	8	4000	StCu	3	–	3	1
Liverpool (Bidston)	1037.5	0	NW'N	4	b	45	65	9	2500	StCu	2	–	2	•
Chester (Sealand)	1037.3	0	WNW	3	bc	45	65	6	4000	StCu	3	Ci	4	2
Harrogate	1036.4	+1	WSW	2	b	41	75	8	–	–	0	CiCu	1	•
Spurn Head	1034.5	0	NW	5	bc	41	75	7	1500	St	3	CiCu	5	•
Birmingham (Edgbaston)	1037.9	+1	NNW	3	mb	41	86	4	–	–	0	Ci	2	2
Cranwell	1037.6	+1	N	3	pm	40	78	4	–	–	0	Ci	2	1
Gorleston	1035.5	+2	NW'N	3	b	45	97	6	–	–	0	CiCu	1	•
Valentia (Cahirciveen)	1032.2	+1	NNE	1	bc	41	85	9	4000	Cu	1	CiCu	6	1
Roches Point	1035.5	+1	NW	1	bc	42	85	8	2500	StCu	3	Ci	6	•
Pembroke (St. Ann's H.)	1035.5	+1	NE	1	bc	44	92	8	2500	Cu	2	CiCu	5	•
Ross-on-Wye	1038.0	+1	W'S	1	b	43	75	8	–	–	0	–	0	2
Leafield	1038.1	+2	N'W	2	b	38	92	6	–	–	0	–	0	2
Winchester (Worthy Dn.)	1037.1	+1	N'W	3	b	42	75	7	–	–	0	–	0	2
S. Farnborough	1037.5	+1	NNW	1	b	43	75	6	–	–	0	–	0	2
London (Kew Obsy.)	1037.8	+1	NNW	1	bw	42	75	4	–	–	0	–	0	2
Croydon	1037.3	+1	–	0	fb	37	92	2	–	–	0	–	0	2
Shoeburyness	1036.9	+2	N'E	3	b	42	85	6	–	–	0	–	0	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1036.7	+2	NW	3	b	41	85	6	–	–	0	–	0	1
Lympne	1036.7	+3	N'W	4	bc	40	85	5	800	St	5	–	5	2
Scilly (St. Mary's)	1037.7	+2	NE	2	bc	48	75	8	4000	Cu	2	Ci	5	•
Falmouth (Pendennis)	1039.6	+1	ENE	3	bc	45	75	7	4000	StCu	4	CiCu	7	•
Plymouth (Mt. Batten)	1037.7	+1	ENE	1	b	47	65	9	4000	Cu	1	Ci	2	2
Portland Bill 1036.8	[illegible]	+1	NE	3	b	45	75	8	–	–	0	–	0	•
Southampton (Calshot)	1037.6	+1	N	3	b	44	75	6	–	–	0	–	0	0
Dungeness	1036.4	+2	NNW	2	bc	42	85	6	–	–	0	CiSt	4	•
Guernsey (St. Peter Port)	1037.2	0	NNE	2	bc	48	75	7	–	–	0	ACu	4	•

Observations at 13h. G.M.T. 16h.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1028.2	+3	NW	4	c pr	40	85	8	1500	CuNb	4	ACu	8	•
Stornoway	1034.7	+4	W	1	bc	38	97	7	4000	CuNb	2	ACu	3	•
Wick	1032.0	+2	WNW	2	bc	35	97	8	1500	CuNb	3	ACu	4	0
Tiree	1037.0	+3	NW'N	3	b	45	85	8	4000	Cu	2	–	2	1
Nairn	1034.3	•	–	0	bc	37	85	8	4000	Cu	4	–	4	•
Aberdeen	1034.1	+4	WNW	3	b+	39	85	7	2500	Cu	2	–	2	0
Malin Head	1038.6	+2	W'N	3	bjp	44	85	8	4000	CuNb	<1	ACu	1	3
Renfrew	1036.5	+3	SSE	2	b	35	97	7	5700	StCu	1	Ci	1	•
Edinburgh (Inchkeith)	1035.2	+2	WNW	3	bc	41	85	7	800	St	4	–	4	•
Leuchars	1035.3	+4	W	2	b-	40	75	8	–	–	0	–	0	•
Eskdalemuir	1037.1	+1	WSW	3	bc-	37	85	7	1500	StCu	4	–	4	•
Tynemouth	1035.4	+2	W	2	b	40	85	6	–	–	0	–	0	1
Blacksod Point	1040.0	+1	–	0	bc	41	92	8	•	Cu	4	–	4	1
Donaghadee	1038.0	+1	W	1	b	37	85	6	–	–	0	–	0	0
Birr Castle	1041.5	+2	S	1	b	32	97	6	–	–	0	–	0	•
Holyhead	1039.7	+2	WNW	3	b-	44	65	8	2500	StCu	1	–	1	0
Liverpool (Bidston)	1039.3	+1	WNW	4	b-	41	65	9	2500	StCu	2	–	2	•
Chester (Sealand)	1038.8	+1	WNW	3	b-	40	75	6	4000	StCu	1	–	1	•
Harrogate	1037.5	+1	SW	3	b	36	85	7	–	–	0	–	0	•
Spurn Head	1035.9	0	NW'W	5	b-	41	75	6	–	–	0	ASt	0	4
Birmingham (Edgbaston)	1039.7	+2	NW	2	bc	39	75	5	–	–	0	ACu	3	•
Cranwell	1038.6	+2	WNW	4	mmb	36	75	4	–	–	0	–	0	•
Gorleston	1036.9	+1	WNW	3	b	36	92	6	–	–	0	–	0	0
Valentia (Cahirciveen)	1040.5	+2	NNE	1	bc	36	92	9	4000	Cu	1	CiCu	5	1
Roches Point	1039.6	+2	N	2	bc	38	92	8	2500	StCu	3	–	3	0
Pembroke (St. Ann's H.)	1040.0	+2	NE	1	bc-	42	85	8	2500	Cu	2	ASt	3	0
Ross-on-Wye	1039.7	+2	–	0	b+	36	92	5	5700	Cu	1	–	1	•
Leafield	1040.0	+3	NW	2	b	33	92	5	–	–	0	–	0	•
Winchester (Worthy Dn.)	1039.2	+1	NNW	2	b	36	92	5	–	–	0	–	0	•
S. Farnborough	1039.3	+2	NW	1	fb+	31	92	3	–	–	0	–	0	•
London (Kew Obsy.)	1039.6	+2	W'N	1	ffb	37	85	3	–	–	0	–	0	•
Croydon	1039.0	+2	WNW	1	fb-	34	85	4	–	–	0	–	0	•
Shoeburyness	1038.8	+1	WNW	1	b	35	92	5	–	–	0	–	0	•
Clacton-on-Sea	1038.4	+3	NW	3	b	36	92	6	–	–	0	–	0	•
Felixstowe	1038.3	+2	WNW	2	bc	38	92	6	–	–	0	Ci	3	0
Lympne	1038.6	+2	NW'N	2	b-	34	92	5	–	–	0	–	0	•
Scilly (St. Mary's)	1040.0	+2	E'N	3	bc	44	85	8	4000	Cu	2	Ci	3	1
Falmouth (Pendennis)	1041.2	+2	NE'E	3	bc	42	85	7	4000	Cu	2	CiSt	5	0
Plymouth (Mt. Batten)	1040.1	+2	NE	2	b	41	75	6	–	–	0	–	0	0
Portland Bill	1038.1	+4	NE'N	3	b	40	75	7	2500	StCu	2	–	2	1
Southampton (Calshot)	1039.6	+2	NW	1	b	36	85	6	–	–	0	–	0	0
Dungeness	1038.6	+3	NNW	1	b-	35	97	6	–	–	0	–	0	2
Guernsey (St. Peter Port)	1039.4	+4	ENE	3	bc	46	75	6	4000	Cu	4	–	4	3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperatures. Max. Day. °F.	Min. Night. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility. To-day.
Kew	18	bf8bm	bs4fk	bmw4k	43	31	20	Tr	0.2	5.2	•	•	3
Croydon	244	buff8fk	bf4mx	bwsf8m	38	30	21	–	–	0.0	•	•	4
Greenwich (Royal Obsy.)	149	bm	bxf	bffk	42	31	19	Tr	0.3	2.7	67	89	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.2	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	44	30	24	–	–	0.9	92	96	•
Regent's Pk. (Botanic Gdns).	165	•	•	•	•	•	•	•	•	4.8	•	•	•
Camden Square	110	b	b	•	43	32	•	–	–	•	•	90	•
Kensington Palace	30	bxm	b	•	43	31	20	–	–	•	(At 18h.) 85	91	•
Hampstead Observatory	450	•	•	•	41	28	20	–	Tr	5.2	•	91	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 17h.

South Kensington

Max.	Time.	Min.	Time.
2.0	13h. 16h.	0.3	6h. 17h.

Kew Observatory

Max.	Time.	Min.	Time.
1.1	18h. 16h.	0.1	6h. 17h.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 16h. 17m. to 17h. 7m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.00	13.15	95
δ Ursae Minoris	14.00	10.28	75

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day is 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (this layer often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

17th–18th December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.1 / 8.3	11.43 / 11.50	15.36 / 15.36
Greenwich	8.3 / 8.4	11.56 / 11.56	15.49 / 15.49
Wick	9.1 / 9.2	12.8 / 12.9	15.16 / 15.16
Valentia	8.46 / 8.47	12.37 / 12.37	16.27 / 16.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skye
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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☺ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; – = has decreased; + = has increased.

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

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1–3
2	4–7
3	8–12
4	13–18
5	19–24
6	25–31
7	32–38
8	39–46
9	47–54
10	55–63
11	64–75
12	Above 75

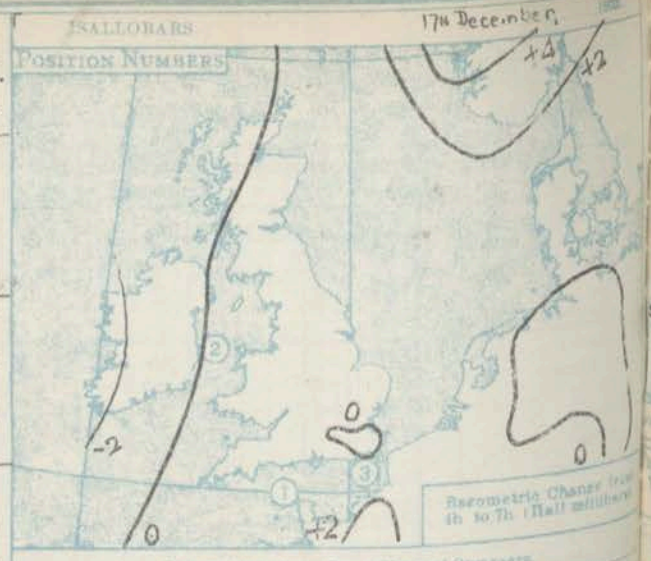
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	220 yards.
1. Thick fog.	550 „
2. Fog.	1,100 „
3. Moderate fog.	2 miles.
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	13½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

* Trace = rain has fallen, but amount less than 0·1 mm. • Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 16h.	18h.-18h. 16h.	18h. 16h. to 1h. 17h.	1h.-7h. 17h.	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun 16h. Hours.
Lerwick	bc	bcqprq	cbcpr	bcpr	42	37	•	1	14.30	1	<21.00	2.5
Stornoway	bcpr	c	b-bc	b-bc	43	34	•	Tr.	11.00	-	-	2.8
Wick	cprbc	b-bc	bcpr	bcpr	41	34	•	2	<8.00	1	<21.00	•
Tiree	pr	b-bc	bcd	d	53	38	28	0.2	9.00	0.5	<21.00	0.0
Nairn	bc	bcx	bcx	bc	41	34	•	–	–	–	–	4.6
Aberdeen	bxb	b	bx	bx	43	34	25	–	–	–	–	4.6
Malin Head	bbc	bcpr	bpbc	bcw	47	35	•	0.6	1430	–	–	2.6
Renfrew	cxcbc	bcb	bbcx	bbcx	46	29	21	–	–	–	–	4.2
Edinburgh (Inchkeith)	cbcm	bcm	bcm	bcmmw	44	37	34	–	–	Tr	–	1.4
Leuchars	cx, bxb	bx	bxbx	bxbx	42	29	21	–	–	–	–	4.7
Eskdalemuir	bcxbc	bcprcbc	cbc	bcx	(38)	34	28	Tr.	12.30	–	–	2.6
Tynemouth	bc	bcb	b	b	43	34	30	–	–	–	–	•
Blacksod Point ...	cbc	bc	bc	cq	47	40	•	–	•	–	•	•
Donaghadee	bcb	b3	b2	bx	44	32	•	–	–	–	–	•
Birr Castle	bfb	bbcbx	bbcx	bccx	39	25	14	–	–	–	–	3.5
Holyhead	bcbcb	bcy	b	bbcw	48	41	36	–	–	–	–	4.2
Liverpool (Bidston) ...	bbcvy	bbcby	vbbcb	bbcbc	45	40	35	–	–	–	–	4.9
Chester (Sealand) ...	bxmfbc	bcb3	bbc	bcc	45	33	25	–	–	–	–	4.0
Harrogate	b	b	b	bx	42	34	28	–	–	–	–	4.5
Spurn Head	bbc	bcb	b	bbw	43	37	•	–	–	Tr	–	5.4
Birmingham (Edgbaston)	bfm	bmbc	bcbx	bx	42	34	29	–	–	–	–	2.3
Cranwell	bxbm	bmbc	bmx	bmx	41	30	27	–	–	–	–	5.6
Gorleston	bcbm	bmm	bmmx	bmmx	45	31	30	–	–	–	–	5.0
Valentia (Cahirciveen)	bcxcbcv	bcv	bcvbx	bxbcc	44	32	27	0.1	–	0.1	–	4.8
Roches Point	bc	bcvbc	bcwbx	bxc	45	35	•	–	–	Tr	–	•
Pembroke (St. Ann's H.)	bc	bc	bcx	bbcx	47	36	•	–	–	–	–	4.4
Ross-on-Wye	ifb	b	bcbmx	bmx	44	23	15	–	–	–	–	6.3
Leafield	b	bmw	bx	bx	39	29	16	Tr.	–	–	–	6.1
Winchester (Worthy Dn.)	bmb	bm	bmmx	bmmx	43	26	16	–	–	0.1	–	6.2
S. Farnborough ...	bxm	bm	bxfm	bxm	44	23	17	–	–	Tr	–	5.9
London (Kew Obsy.) ...	bfxbm	b3fx	bmx	bmx	43	31	20	Tr	–	0.2	–	5.2
Croydon	bmwffxff	bffmx	bmxfm	bmmx	38	30	21	–	–	–	–	0.0
Shoeburyness	bm	bm	bm	bmx	43	31	26	–	–	–	–	5.9
Clacton-on-Sea ...	bm	bm	bmx	bmx	42	32	28	–	–	–	–	6.0
Felixstowe	bm	bc3	bm	bm	42	34	31	–	–	–	–	5.3
Lympne	bbcm	bcbm	bmmfx	bfx	41	29	25	–	–	–	–	6.5
Scilly (St. Mary's) ...	bc	bc	bc	bc	49	41	•	–	–	–	–	5.0
Falmouth (Pendennis)	bc	bc	bc	bcm	46	38	•	–	–	–	–	5.0
Plymouth (Mt Batten)	bbcw	brbcm	bm	bmx	48	30	21	Tr.	–	–	–	5.5
Portland Bill	bcb	b	b	bbc	45	34	•	–	–	–	–	•
Southampton (Calshot)	bwbm	bm	bm	bmx	44	29	23	–	–	–	–	6.8
Dungeness	bc	bcmbm	bzbff	bffbm	42	28	•	–	–	–	–	•
Guernsey	cbc	bc	bcbw	bwbw	48	34	26	–	–	–	–	4.7



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	16th 10h	Hibernia	WNW	4	bc	44	52
3	17th 2h	Dieppe	NNE	3	bc	44	50

GENERAL INFERENCE.

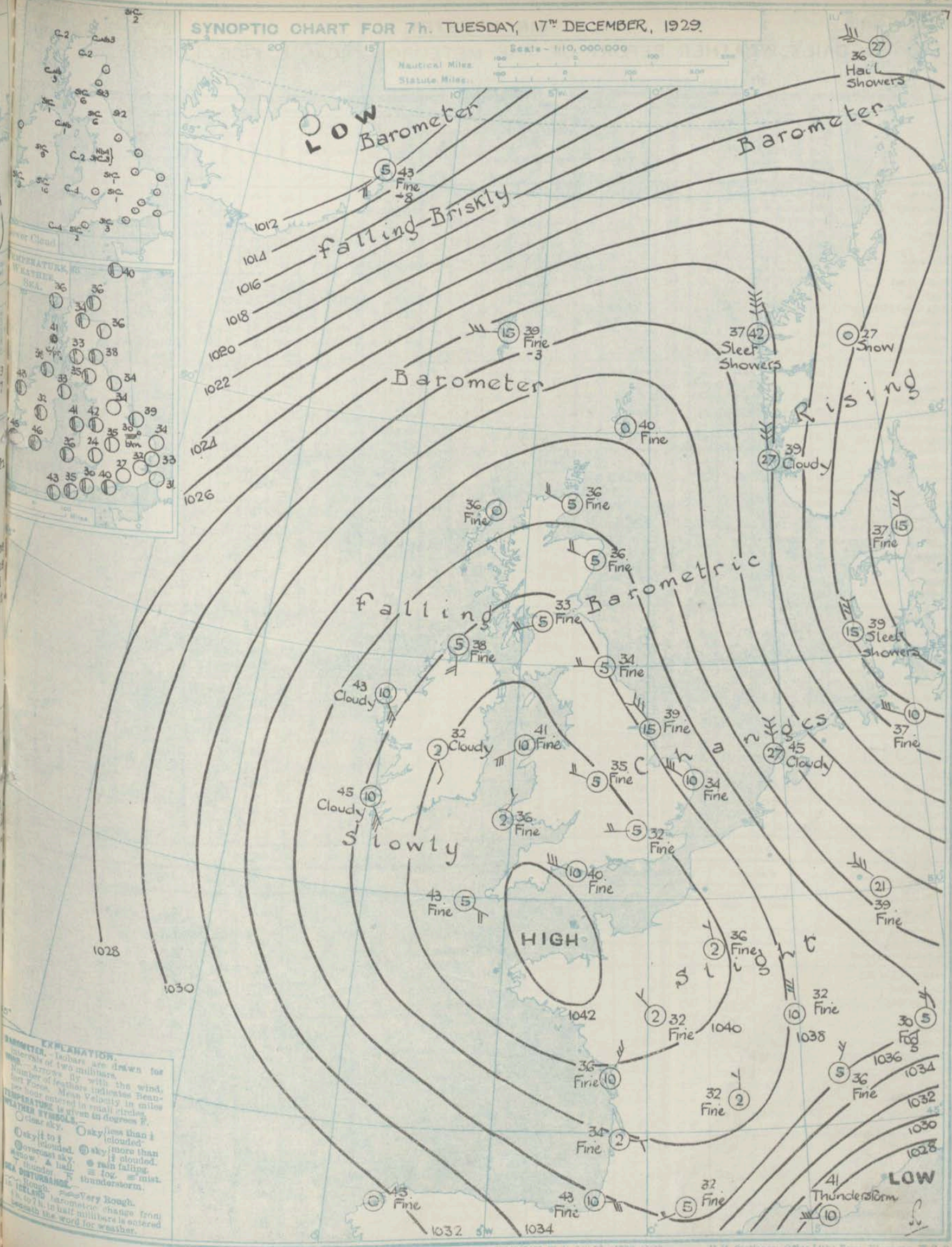
An intense anticyclone centred over the western English Channel will maintain fine weather with frost at night over most of Great Britain. Some mist or fog will however persist locally by day and become more general at night. Conditions will tend to become less settled in the extreme west and northwest.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 17th December, 1929.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light variable breeze; mainly fine apart from mist or fog persisting locally inland; more general fog at night; moderate day temperature; frost at night.	Less settled in the North and West; no material change elsewhere.
13. A. W. Scotland 13. B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind west, light, backing and freshening; becoming mainly cloudy; perhaps drizzle later near the coast; moderate temperature; local inland night frost.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southerly, light to moderate; mainly fair; perhaps drizzle later near the west coast; moderate day temperature; local inland frost at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1000 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.


SYNOPTIC CHART FOR 7h. TUESDAY, 17th DECEMBER, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
Barometer
falling Briskly
Barometer
Rising
Barometer
falling Barometric
Rising Slowly
HIGH
LOW
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
1036
1038
1040
1042
36 Hail Showers
37 Sleet Showers
27 Snow
39 Cloudy
39 Sleet Showers
45 Cloudy
41 Thunderstorm
30 Fog
43 Cloudy
32 Cloudy
45 Cloudy
43 Fine
36 Fine
33 Fine
38 Fine
34 Fine
35 Fine
32 Fine
40 Fine
39 Fine
37 Fine
43 Fine
EXPLANATION.
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean Velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
clear sky. sky less than ½ clouded. sky ½ to ½ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.
Very Rough.
IRELAND barometric change from 1 h. to 7 h. in half millibars is entered beneath the word for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 17th December 1929. No. 351

Observations at 1h. G.M.T. 17th

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	34	1035.5	+1	NW	1	bc	38	85	8	1500	St.Cu.	4	Ci.St.	6
Stornoway	30	1036.3	+1	-	0	b-	*	*	8	*	*	*	*	1
Wick	81	1034.6	+1	WNW	2	bc	37	97	8	1500	Cu.Nb.	4	A.Cu.	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	31	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1039.7	+1	S	2	bc	39	85	8	4000	Cu.	3	-	3
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1037.1	+2	WSW	2	bc	38	97	5	800	St.	3	-	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1037.2	+1	WNW	2	b	37	92	6	-	-	0	-	0
Blacksod Point ...	48	1039.7	-1	S	3	bc	42	65	8	*	-	0	Cu.	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	278	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1040.4	0	W'N	4	b	44	85	8	2500	Cu.	1	-	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1036.8	0	NW	5	b	38	92	6	-	-	0	-	0
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	256	1039.1	0	W'S	3	mmb	32	92	4	-	-	0	-	0
Gorleston	14	1037.4	0	WNW	2	b	34	92	6	-	-	0	-	0
Valentia/Cahirciveen ‡	30	1040.6	0	-	0	bc	42	97	9	*	-	0	C.Cu.	4
Roches Point	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1041.2	+1	NE	1	b-	38	97	6	2500	Cu.	1	-	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	257	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	32	*	*	*	*	*	*	*
Croydon	244	1040.7	+1	WNW	3	fb-	31	97	4	-	-	0	-	0
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	560	1039.2	+1	NW'N	3	ffb	31	92	3	-	-	0	-	0
Scilly (St. Mary's) ...	163	1040.9	+1	E'S	3	bc	43	85	7	4000	Cu.	3	C.	5
Falmouth (Pendennis)	300	1041.8	+2	NE'E	2	bc	37	92	7	4000	St.Cu.	3	-	3
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1040.7	0	NE'N	3	b-	38	75	7	-	-	0	-	0
Southampton (Calshot)	10	1041.3	+1	NW	2	b	35	92	6	-	-	0	-	0
Dungeness	20	1040.0	0	NNW	2	ffb	32	92	3	-	-	0	-	0
Guernsey (St. Peter Port)	173	1041.2	0	-	0	b	41	85	6	-	-	0	A.Cu.	2

Observations at 7h. G.M.T. 17th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	[illegible]
Lerwick	1032.3	+1	-	0	bc	40	75	8	1500	St.Cu	2	A.Cu	4	*
Stornoway	1035.3	-1	-	0	b	36	97	7	5700	Ci	2	-	2	0
Wick	1034.8	0	WNW	2	bc	36	97	8	1500	Cu.Nb	3	Ci.St	6	0
Tiree	1037.4	-1	SW'W	3	c/pc	41	92	8	2500	Cu.Nb	3	Ci.Cu	8	2
Nairn	1036.9	*	-	0	bc	34	85	8	2500	Cu	2	Ci.Cu	4	*
Aberdeen	1036.7	+1	WNW	2	b	36	85	7	-	-	0	A.Cu	1	0
Malin Head	1038.9	-1	S	2	bc+	38	85	8	5700	St.Cu	1	Ci.Cu	7	1
Renfrew	1039.2	0	WSW	2	bc	33	97	6	4000	St.Cu	6	-	6	*
Edinburgh (Inchkeith)	1037.8	0	SW	2	bc	38	92	5	800	St	3	-	3	0
Leuchars	1037.8	0	W	3	b	32	92	8	-	-	0	-	0	*
Eskdalemuir	1039.1	0	SW'S	1	bc	35	92	5	2500	St.Cu	6	-	6	*
Tynemouth	1037.8	+1	W	2	b	34	92	7	1500	St	2	-	2	1
Blacksod Point ...	1037.5	-2	SSE	3	c	43	65	8	*	-	0	A.Cu	9	4
Donaghadee	1039.4	0	W'S	1	b+	33	92	7	4000	Cu.Nb	1	-	1	0
Birr Castle	1040.8	-1	SSE	1	c	32	92	7	4000	St.Cu	9	A.St	10	*
Holyhead	1040.6	0	W'S	3	bc+	41	85	8	2500	Cu	2	Ci.St	5	0
Liverpool (Bidston) ...	1039.8	0	W'N	4	bc+	42	85	8	2500	Nb	7	-	7	*
Chester (Sealand) ...	1039.6	0	W'N	3	c+	42	75	7	2500	St.Cu	8	-	8	*
Harrogate	1039.0	0	WSW	3	b	34	92	7	-	-	0	-	0	*
Spurn Head	1036.8	0	NW'N	4	b	39	92	6	-	-	0	A.St	2	4
Birmingham (Edgbaston)	1040.7	0	WNW	2	b	35	85	6	4000	St.Cu	1	A.Cu	2	*
Cranwell	1039.6	0	W	3	mmb	30	92	4	-	-	0	-	0	*
Gorleston	1037.6	0	NW'W	3	b	34	92	5	-	-	0	-	0	0
Valentia/Cahirciveen ‡	1038.0	-2	SE'S	3	c	45	75	8	2500	St.Cu	3	Ci.St	8	3
Roches Point	1039.5	-1	SW	2	c	46	85	8	2500	St.Cu	10	-	10	0
Pembroke (St. Ann's H.)	1041.3	0	NE	1	bc+	36	97	8	2500	Cu	4	-	4	0
Ross-on-Wye	1041.3	0	WSW	1	b	24	97	5	-	-	0	Ci	1	*
Leafield	1040.4	0	WNW	2	b	31	85	7	4000	St.Cu	1	-	1	*
Winchester (Worthy Dn.)	1040.9	0	WNW	2	mmb	27	97	4	-	-	0	-	0	*
S. Farnborough ...	1040.7	0	W	1	b	27	97	6	-	-	0	-	0	*
London (Kew Obsy.) ...	1040.1	0	W	2	b	32	92	5	-	-	0	-	0	*
Croydon	1040.3	0	WNW	2	b	31	97	6	-	-	0	-	0	*
Shoeburyness	1039.3	0	W	1	b	32	92	5	-	-	0	-	0	0
Clacton-on-Sea ...	1038.7	0	WNW	3	b	33	92	6	-	-	0	-	0	0
Felixstowe	1038.6	0	NW'N	3	b	35	97	6	-	-	0	-	0	0
Lympne	1038.8	0	NW'N	4	b/f	31	85	5	-	-	0	-	0	*
Scilly (St. Mary's) ...	1041.8	+1	ESE	2	bc	43	75	8	4000	Cu	4	-	4	1
Falmouth (Pendennis)	1043.4	0	ENE	2	bc	35	85	6	4000	St.Cu	2	C.St	4	0
Plymouth (Mt. Batten)	1042.4	+1	-	0	bc	30	97	6	-	-	0	C.St	3	0
Portland Bill	1040.7	0	WNW	3	bc	40	85	7	2500	St.Cu	3	-	3	0
Southampton (Calshot)	1041.1	0	NW'N	2	b	31	85	6	-	-	0	-	0	0
Dungeness	1038.9	-1	NW	1	b/m	31	92	6	-	-	0	-	0	1
Guernsey (St. Peter Port)	1041.8	+1	-	0	b	35	92	6	-	-	0	A.Cu	2	*

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 16th December

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-15h. to 9h. 16th	Temperature. Max. 9h.-17h. 16th	Rainfall.† Night 17h.-9h. 15th-16th	Rainfall.† Day 9h.-17h. 16th	Sunshine. Sunrise to Sunset. 16th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	bc	34	42	-	-	4.2
Douglas (I. o. M.) ...	bx	bv	36	45	-	-	5.7
Llandudno ...	cbc	bc	35	48	-	-	4.0
Colwyn Bay ...	b	bbce	37	48	-	-	4.2
Rhyl	bbc	bc	33	46	-	-	3.3
Wallasey	bcb	bbcb	39	47	-	-	4.4
Southport	fbcb	bbcb	*34	45	0.6	-	4.2
Blackpool	cbc	bc	33	45	0.1	-	3.6
Morecambe ...	cbcbc	bbcc	28	44	-	-	3.8
Ilkley	bc	bc	30	41	-	-	3.6
Cleethorpes	fb	bx	33	42	-	-	4.6
Mablethorpe ...	bxm	bm	32	42	-	-	5.5
Skegness	bx	bz	33	43	-	-	5.5
Aberystwyth ...	bcx	bc	33	48	-	-	6.8
Bath	b	b	33	44	-	-	6.5
Cheltenham ...	bcb	bbc	33	44	-	-	4.1
Leamington Spa ...	bf	f	29	33	-	-	0.0
Lowestoft	bwm	b	33	43	-	-	5.8
Harwich & Dovercourt	bm	bm	35	42	-	-	5.7
Maldon	mb	b	35	42	-	-	5.9

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	b	b	37	45	-	-	5.0
Bude	bcb	b	36	47	-	-	6.6
St. Ives	c	b	39	47	-	-	4.2
Penzance	cbbc	b3	40	49	-	-	3.8
Paignton	bmw	b	40	46	-	-	5.5
Torquay	bmb	bm	41	47	-	-	6.6
Jersey	cbc	cbc	44	50	-	-	4.4
Weymouth	b	b	38	45	-	-	3.9
Bournemouth ...	b	b	36	44	-	-	5.5
Ventnor ...	b3	b3	38	~~42~~ 52	-	-	6.6
Portsmouth (S'thsea)	b	bm	39	44	-	-	6.6
Bognor Regis ...	b	b	39	45	-	-	6.6
Littlehampton ...	b	bbc	37	44	-	-	5.5
Worthing	b	b	37	44	-	-	5.5
Brighton	b	b	39	43	-	-	6.6
Eastbourne	b	b	39	45	Trace	-	6.9
Hastings	b	b	38	44	0.1	-	6.6
Folkestone	b3bc	bcb	38	43	-	-	6.2
Dover	mbc	bcbm	39	43	-	-	6.6
Deal	cbc	bbc	37	43	-	-	6.4
Tunbridge Wells ...	mb	bm	35	42	-	-	4.5
Ramsgate	cbc	bc	40	44	-	-	5.2
Margate	bc	bc	41	45	-	-	5.5
Southend	bm	bm	36	44	-	-	5.5

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T., from an auxiliary station.

§ For code see page 1.

‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24863 Wednesday 18th December 1929.

Observations at 18h. G.M.T. 17h.

Stations. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1031.0	-2	WSW	1	bc	43	85	8	1500	StCu	3	ACu	5	•
Stornoway	1031.5	-5	SSW	1	bc	43	85	7	5700	Cu	4	CiSt	6	•
Wick	1033.4	-3	WSW	2	b	40	92	8	4000	Cu	2	-	2	•
Tiree	1034.2	-3	S'W	5	c	43	85	9	4000	StCu	3	CiSt	8	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1035.9	-2	SW	2	b	42	75	7	-	-	0	Ci	1	3
Malin Head	1035.8	-1	SSW	5	c	40	75	8	5700	StCu	8	ACu	9	•
Renfrew	1038.0	-2	-	0	FFb	31	97	0	-	-	0	-	0	3
Edinburgh (Inchkeith)	1038.1	0	WSW	2	c	39	92	5	800	St	9	-	9	•
Leuchars	1036.6	-3	WSW	2	bc	40	75	6	2500	StCu	3	-	3	3
Eskdalemuir	1038.7	-1	S'W	2	o	36	97	6	220	St	10	-	10	2
Tynemouth	1038.3	-1	WNW	2	bc	42	75	6	2500	Cu	3	-	3	•
Blacksod Point	1034.8	-2	S	5	c	47	85	8	•	-	0	ASt	10	•
Donaghadee	1038.4	-2	WS	5	bc	37	85	7	4000	StCu	2	ACu	6	•
Birr Castle	1038.7	-3	S	1	c+	37	85	7	-	-	0	ASt	10	•
Holyhead	1040.1	-1	SW'W	3	c+	45	65	8	4000	StCu	9	Cu	9	1
Liverpool (Bidston)	1040.1	-1	W'N	4	c+	44	65	8	1500	StCu	4	CiSt	8	•
Chester (Sealand)	1039.7	-1	W'S	3	bc-	45	65	7	4000	StCu	3	CiSt	4	2
Harrogate	1039.1	0	WSW	3	b	42	75	7	-	-	0	ACu	1	•
Spurn Head	1038.1	0	NW	4	bc	40	92	6	1500	St	3	-	3	•
Birmingham (Edgbaston)	1040.6	0	WNW	2	ff bc	39	75	3	4000	StCu	2	ACu	4	2
Cranwell	1039.6	-2	W	3	hmb	38	85	4	-	-	0	ACu	1	4
Gorleston	1037.9	0	NW'W	2	b	40	85	6	-	-	0	-	0	•
Valentia (Cahirciveen)	1037.2	-2	SSE	4	c	50	85	8	1500	StCu	7	ASt	10	1
Roches Point	1038.6	-2	SW	3	c	47	97	8	4000	StCu	10	-	10	•
Pembroke (St. Ann's H.)	1041.2	0	S	1	c+	44	85	7	4000	Cu	8	CiCu	10	•
Ross-on-Wye	1040.9	0	SW'W	2	b-	40	75	8	4000	StCu	<1	CiSt	1	2
Leafield	1040.3	+1	NW'W	2	b	38	75	7	5700	StCu	1	-	1	2
Winchester (Worthy Dn.)	1040.8	-3	WNW	3	b-	39	75	6	4000	StCu	1	-	1	2
S. Farnborough	1040.9	+2	NW	1	b	39	75	6	-	-	0	-	0	3
London (Kew Obsy.)	1040.4	-3	W	2	mmb	39	85	4	-	-	0	-	0	2
Croydon	1040.1	-2	NW'W	2	mb	40	75	4	-	-	0	-	0	2
Shoeburyness	1039.7	-1	NW	2	b	41	85	7	-	-	0	-	0	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1038.7	-2	WNW	3	b	40	85	5	-	-	0	-	0	0
Lympne	1039.3	-1	NNW	3	mb+	38	85	4	-	-	0	-	0	2
Scilly (St. Mary's)	1041.8	-1	SSE	3	bc	47	75	8	4000	Cu	4	ACu	7	•
Falmouth (Pendennis)	1043.0	-1	E'N	3	bc	44	85	7	4000	Cu	2	CiSt	4	•
Plymouth (Mt. Batten)	1042.6	-1	—	0	bc	39	75	7	-	-	0	Ci	3	2
Portland Bill	1041.3	-1	NNW	3	bc	43	65	8	4000	StCu	3	CiSt	4	•
Southampton (Calshot)	1041.3	-2	NW'N	3	b-	41	75	6	-	-	0	Ci	1	0
Dungeness	1040.2	-2	NW	1	b	39	85	6	-	-	0	-	0	•
Guernsey (St. Peter Port)	1038.6	-2	-	0	c	44	75	7	4000	StCu	10	-	10	•

Observations at 18h. G.M.T. 17h.

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1028.4	-4	S'W	2	bc	42	92	7	1500	StCu	3	ASt	5	•
Stornoway	1027.1	-5	S	6	odd	45	97	6	1500	Nb	10	-	10	5
Wick	1030.2	-4	SW	3	bc*	40	92	8	4000	StCu	3	CiSt	5	1
Tiree	1031.4	-3	S'W	5	crr	44	97	7	4000	St	8	ASt	10	5
Nairn	1030.9	•	W	1	bc+	38	85	8	2500	CuNb	6	-	6	•
Aberdeen	1033.9	-2	SW	2	b	35	85	5	-	-	0	-	0	0
Malin Head	1032.5	-2	S	5	c/r	41	92	8	5700	StCu	9	-	9	1
Renfrew	1036.3	-2	SSW	2	c	34	97	5	5700	StCu	6	CiSt	9	•
Edinburgh (Inchkeith)	1036.5	-2	WSW	3	bc	39	75	7	1500	St	7	ACu	3	•
Leuchars	1035.8	0	WSW	1	mmbc	33	97	4	<150	St	7	-	7	•
Eskdalemuir	1036.1	-1	S'E	2	fb	31	97	2	-	-	0	Ci	1	•
Tynemouth	1038.1	0	W	2	o-	37	97	6	1500	St	2	-	2	2
Blacksod Point	1033.6	-2	S	4	odt	48	92	6	•	Nb	10	-	10	6
Donaghadee	1036.3	-2	WSW	1	bc	38	85	6	5700	StCu	7	-	7	0
Birr Castle	1037.1	-1	S	1	c	40	92	7	2500	StCu	9	-	9	•
Holyhead	1038.8	-1	SW'W	3	c	45	75	7	3700	StCu	2	ASt	10	0
Liverpool (Bidston)	1039.4	0	WSW	3	c+	39	75	7	4000	StCu	9	CiSt	9	•
Chester (Sealand)	1039.1	-1	W	2	bc	37	75	6	-	-	0	ASt	5	•
Harrogate	1039.4	0	SW	1	c	38	92	7	4000	StCu	9	-	9	•
Spurn Head	1038.4	0	NWN	2	b-	41	85	7	1500	St	2	-	2	3
Birmingham (Edgbaston)	1040.7	-1	WNW	2	c-	37	85	5	4000	StCu	8	-	8	•
Cranwell	1039.9	+1	W	3	fb+	33	97	2	-	-	0	-	0	•
Gorleston	1038.2	0	NW'W	3	b	37	65	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1036.4	-1	SE	4	odb	47	92	7	800	St	10	-	10	1
Roches Point	1037.6	-1	SW	3	bc	48	92	8	2500	StCu	5	-	5	1
Pembroke (St. Ann's H.)	1040.0	-1	S	2	c	45	85	7	2500	StCu	10	-	10	1
Ross-on-Wye	1040.7	-1	SW	1	mc+	33	92	4	-	-	0	Ci	0	•
Leafield	1040.1	+1	W'N	1	fb-	34	92	4	-	-	0	-	0	•
Winchester (Worthy Dn.)	1039.6	+1	NW	1	b	35	92	5	-	-	0	-	0	•
S. Farnborough	1039.1	0	NW	3	b	35	97	6	-	-	0	-	0	0
London (Kew Obsy.)	1039.2	+1	NW	3	mmb	36	97	4	-	-	0	-	0	0
Croydon	1039.7	+2	NW	2	ffb	32	97	3	-	-	0	-	0	•
Shoeburyness	1040.0	0	S'E	3	bc	43	75	8	4000	Cu	3	Ci	4	1
Clacton-on-Sea	1042.0	-1	ESE	2	c+	45	75	7	4000	StCu	9	-	9	0
Felixstowe	1041.1	-1	ENE	2	bc+	37	85	4	-	-	0	Ci	7	0
Lympne	1040.4	-2	NNE	3	bc	40	75	8	4000	StCu	2	CiSt	4	1
Scilly (St. Mary's)	1040.8	-1	NW	2	b	34	92	6	-	-	0	Ci	1	0
Falmouth (Pendennis)	1039.9	0	NW	1	ffbc	34	97	3	450	St	5	-	5	2
Plymouth (Mt. Batten)	1041.0	-1	-	0	bc	36	92	6	-	-	0	CiCu	4	1

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (To-day.)	Humidity. 9h. G.M.T. % (To-day.)	Sea Mist. 0-10
Kew	18	bfybm	bmbfz	bfrcfwn	40	31	20	-	-	4.4	*	*	1
Croydon	244	bymmz	bzffm	cwmfx	40	29	25	-	-	4.4	*	*	3
Greenwich (Royal Obsy.)	149	bfx	bfx	cbfx	41	28	19	Tr	Tr	0.5	79	88	2
City (Bunhill Row)	39	*	*	*	*	*	*	*	*	1.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	43	29	23	-	-	1.4	75	95	*
Regent's Pk. (Botanic Gdns.)	188	*	*	*	*	*	*	*	*	4.3	*	*	*
Camden Square	110	xb	b	*	42	32	*	-	-	*	*	97	*
Kensington Palace	80	bxm	bbm	*	41	31	22	-	-	*	(At 18h.) 85	91	*
Hampstead Observatory	450	*	*	*	40	29	20	-	Tr	5.0	*	91	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 18h.

South Kensington Max.	Time.	Min.	Time.
1.6	21h 17m	0.6	5h 18m

Kew Observatory Max.	Time.	Min.	Time.
1.2	21h 17m	0.3	5h 18m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 17h. 17 h. 00 m. to 18h. 7 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.00	5.50	42
δ Ursae Minoris	14.00	NIL	-

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 15h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

(For 19h. December, 1929.)

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.3	11.50	15.36
	8.4	11.50	15.37
Greenwich	8.4	11.56	15.49
	8.4	11.57	15.50
Wick	9.2	12.9	15.16
	9.3	12.9	15.16
Valentia	8.47	12.37	16.28
	8.48	12.38	16.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
p precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t tounder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
x 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.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" (/) divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 76

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

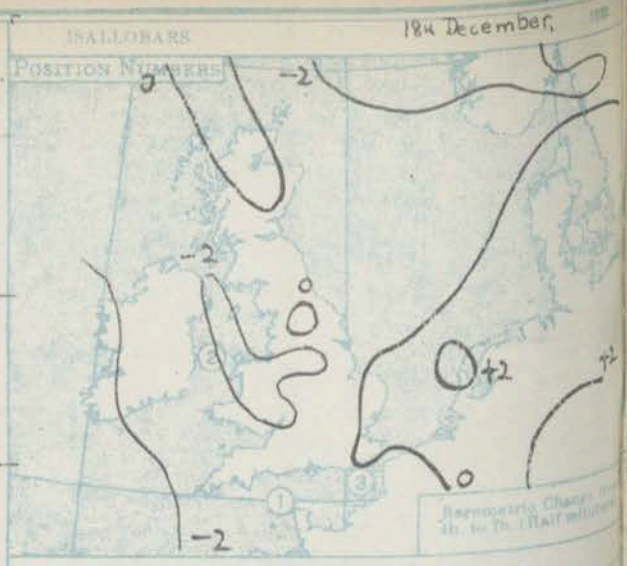
	Objects not visible at
0. Dense fog.	55 yards
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS	Weather. 7h.-18h. 17h	Weather. 18h.-18h. 17h	Weather. 18h.-1h. 17h to 18h	Weather. 1h.-7h. 18h	Temperature. Max. Day 7h.-18h.	Temperature. Min. Night 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day 7h.-18h. mm.	Rainfall.† Day 7h.-18h. began.	Rainfall.† Night 18h.-7h. mm.	Rainfall.† Night 18h.-7h. began.	Sun 17h Hours
Lerwick	bc	bcc ir.	coir.m.	coir.q	43	42	•	0.6	14.30	1	24.00	0.6
Stornoway	c	p	cRc	cbc	45	44	•	0.3	14.30	4	<21.00	1.8
Wick	b-bc	b-bc	crrc	cpr.c	40	40	•	–	–	2	<21.00	•
Tiree	bc	d.	c	r.c	44	44	43	1	15.30	0.5	<21.00	0.7
Nairn	bc	bcx	bcq	bc	38	38	•	–	–	–	–	4.0
Aberdeen	b	b3	bbcc	crc	42	34	29	–	–	1	3.30	5.0
Malin Head	bccu	cir	c	cp.c	41	40	•	1	14.30	Tr	4.30	0.4
Renfrew	bcxbFFx	bFFbcm.	cm.	ccm.r	36	34	32	0.1	–	0.5	6.30	0.0
Edinburgh (Inchkeith)	bcm.m.	cm.bc	bcc	oid.c	41	38	35	–	–	Tr	1.30	1.2
Leuchars	bxbcxbcm.	bcm bcmx	bcmxcx	cxcbc	40	31	22	0.1	–	–	–	4.0
Eskdalemuir	bcxcpl.om.	ocbfx	bfxbcm.x	bcm.xom.	37	29	25	Tr.	11.00	–	–	0.0
Tynemouth	bbc	bc	bff	co	43	34	29	–	–	–	–	•
Blacksod Point ...	co	dd	dd	rr	48	46	•	1	•	2	•	•
Donaghadee	bbc	bc3.	bcc	c	38	33	•	–	–	–	–	•
Birr Castle	cbcc	c	c	cir.	40	39	37	–	–	0.4	3.30	0.2
Holyhead	bcm.bcc	c	cbbcm.	bccm.	46	45	42	–	–	Tr	6.30	1.3
Liverpool (Bidston) ...	bcc	cbc	ccbc	bb	44	36	34	–	–	–	–	1.2
Chester (Sealand) ...	cbc	bc3.y3	bcm.	bcm.	46	33	26	–	–	–	–	2.5
Harrogate	b	bbcc	cb	bbcx	42	33	26	–	–	–	–	5.2
Spurn Head	bbc	bc	bbccfmzw	bcc	42	36	•	–	–	Tr	–	5.9
Birmingham (Edgbaston)	bbcm	bcfc	cbcx	bcc	40	34	22	–	–	–	–	1.4
Cromwell	bfx	bmfx	bfcm.	cm.cm.	39	32	29	–	–	–	–	2.9
Gorleston	bm.m.	bm.m	bbcm.m.	ffbcx	41	27	26	–	–	–	–	4.0
Valentia (Cahirciveen)	c	coid.	od.r.r.	oir.c	50	47	45	Tr.	15.30	7	<21.00	0.0
Roches Point	c	cbc	bcc	c	49	48	•	–	–	–	–	•
Pembroke (St. Ann's H.)	bccm.	c	c	c	45	45	•	–	–	–	–	1.6
Ross-on-Wye	bmmbcb	bbccm.	cmxfx	cmx	41	29	21	–	–	Tr	–	5.5
Leafield	b	bbc	b	bcx	41	31	19	0.1	–	–	–	5.4
Winchester (Worthy Dn.)	bmxbcm.	bm.	bm.mx	bmmx	39	22	15	–	–	0.1	–	6.2
S. Farnborough ...	bxm.	bm.x	bxcbm	bmxcmx	41	23	17	–	–	Tr	–	5.5
London (Kew Obsy.) ...	bfx bm	bmbfx	bfxcfx	cfxcmx	40	31	20	–	–	–	–	4.4
Croydon	bxmm.3	b3ffm	cbcmx	bcmfx	40	29	25	–	–	–	–	4.4
Shoeburyness	bm.	bm.	mm	bffx	41	28	20	–	–	–	–	5.6
Clacton-on-Sea ...	bm	bm	bm	bbccmx	40	31	27	–	–	–	–	6.0
Felixstowe	bm.x	b3.bm	bm	bfx	41	30	27	–	–	–	–	5.2
Lympne	bm.xm	bmm.ff	bfx	bfx	39	30	23	–	–	–	–	5.8
Scilly (St. Mary's) ...	bc	bc	bcc	bc	48	42	•	–	–	–	–	(2.7)
Falmouth (Pendennis)	bcm.	bcc	c2.	cbc2.	45	37	•	–	–	–	–	5.2
Plymouth (Mt. Batten)	bbcmx	bcm	cb	bcwc	42	35	31	0.1	–	–	–	2.4
Portland Bill	bc	bc	bcc	c	44	34	•	–	–	–	–	•
Southampton (Calshot)	bm.x	bm.	bbcm.x	bm.x	42	28	24	–	–	–	–	6.1
Durgenoss	bm.	bcff	bcffcff	bFF	39	27	•	–	–	–	–	•
Guernsey	omo	bmbc	bcc	c	47	34	26	–	–	–	–	6.5



Observations from Cross Channel Steamers.

Position.	Date and Time	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	17th 10h	Hibernia	W	3	bc	45	50
1	" 13h	St Helier	NNW	2	bc	46	51
3	18th 2h	Arundel	N	3	bc	44	51

GENERAL INFERENCE.

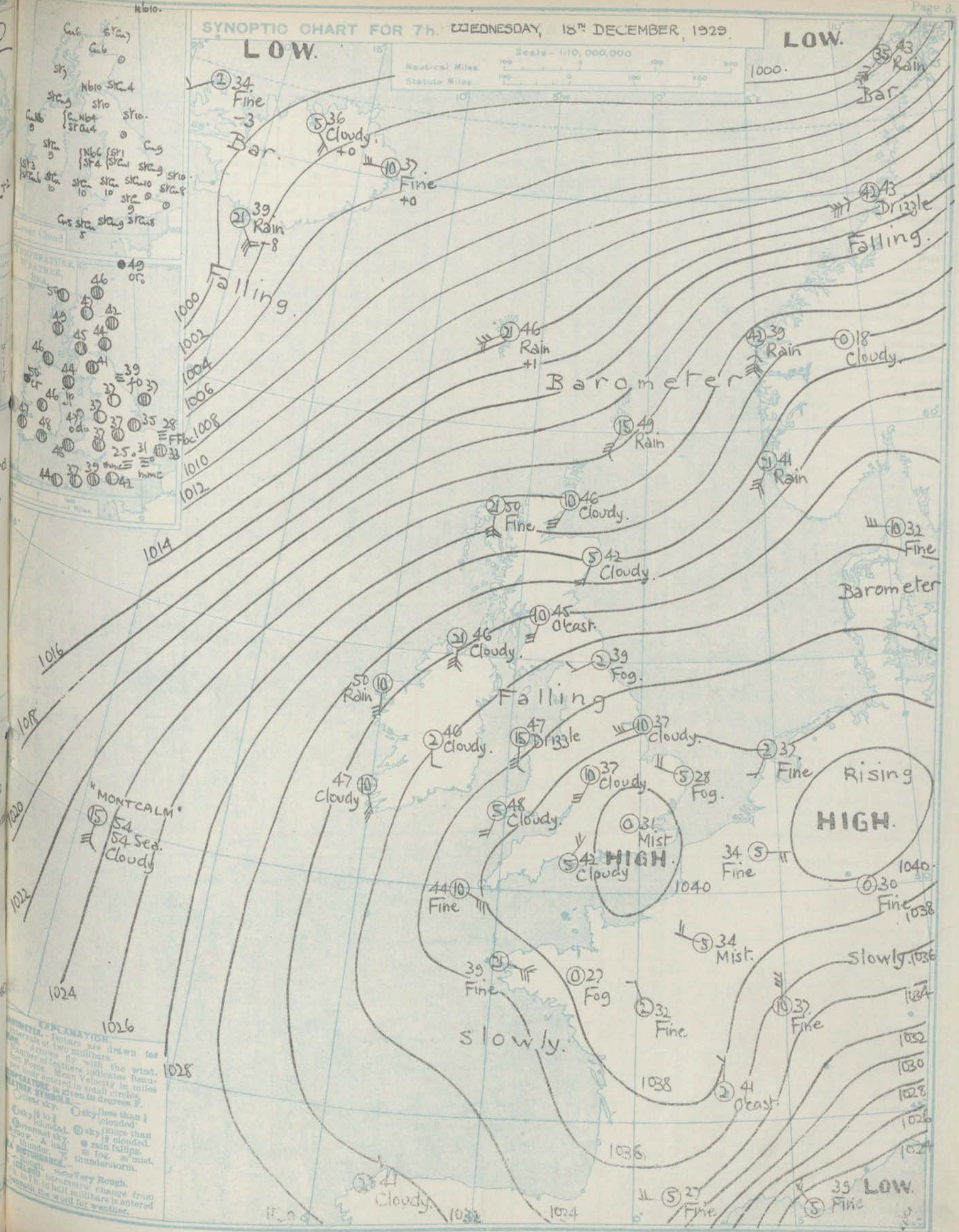
The large anticyclone at present centred over S.E. England will move eastward to Germany. In southeast districts weather will be fair with local fog, while in the Northwest weather will be cloudy with local drizzle.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 18th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light breeze, mainly southerly; fair; local fog, chiefly night and morning; rather cold, frost inland at night.	Unsettled in Ireland and West Scotland. Fair in Eastern England but local fog.
5. S.W. England 6. South Wales	Wind S., light to moderate or fresh; fair; temperature rising somewhat.	
7. North Wales 8. N.W. England	Wind S. to S.W., moderate or fresh; cloudy, slight drizzle locally; rather mild.	
9. N. Midlands 10. N.E. England	Wind S.W., light or moderate; fair; local mist or fog, chiefly night and morning; moderate day temperature, slight frost at night.	
11. S.E. Scotland	Wind S.W., moderate; mainly cloudy; rather mild.	
12. S.W. Scotland & Isle of Man	As 7 - 8.	▼ South Cone hoisted at 18h.40 yesterday.
13. (A) W. Scotland (B) N.W. Scotland ▼	Wind S. to S.W., fresh or strong; cloudy, some drizzle or rain; mild.	
14. Mid-Scotland 15. N.E. Scotland	As 11.	
16. Orkneys and Shetlands ▼ 17. N.W. Ireland	As 13.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 - 8.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday, 18th December 1929. No. 352

Observations at 1h. G.M.T. 18th

STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10
Lerwick	54	1023.5	-3	S'W	4	or.	44	92	6	1500	Nb	10	-	10
Stornoway	30	1024.7	-1	SW	4	c	*	*	6	*	*	*	*	10
Wick	81	1025.7	-3	SSW	4	c/r	43	97	8	1500	Nb	5	ASt	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	57	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	84	1031.9	-1	S	5	c	45	92	7	4000	St Cu	7	Cu	9
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1033.5	-1	WSW	3	o	42	85	6	1500	St	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1036.5	-1	WSW	2	c/f	35	92	7	4000	St Cu	9	-	9
Blacksod Point ...	18	1031.9	0	S	3	oD	49	97	7	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	28	1037.2	0	SW's	3	bc	47	85	6	4000	Cu	3	ACu	6
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	678	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	1038.6	0	W'N	2	bc-	39	92	5	1500	St	3	ACu	4
Birmingham (Edgbaston)	625	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	266	1039.6	0	WSW	2	c+	35	85	6	4000	St Cu	9	-	9
Gorleston	14	1039.1	0	NW'N	2	bc	35	92	6	4000	Cu	5	-	5
Valentia (Cahirciveen) P	30	1038.5	-2	S	3	orr	49	97	7	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1038.6	-1	SW	2	c	48	85	8	2500	St Cu	10	-	10
Ross-on-Wye	293	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	287	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	33	*	*	*	*	*	*	*
Croydon	344	1040.3	-1	W's	1	mmbc	32	97	4	2500	St Cu	1	ACu	6
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	560	1039.4	0	NNW	3	fb+	32	97	3	-	-	0	-	0
Scilly (St. Mary's) ...	163	1039.9	-1	ESE	3	bc	44	75	8	4000	Cu	5	ACu	6
Falmouth (Pendennis)	200	1041.2	-1	-	0	c	40	92	6	4000	St Cu	5	Cu St	8
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1039.4	-1	NNE	2	c	38	85	7	2500	St Cu	7	Cu St	8
Southampton (Calshot)	10	1040.7	-2	NW	2	b-	35	92	6	-	-	0	Cu St	1
Dungeness	30	1039.7	-1	NW	2	ffc	32	92	2	450	St	8	-	8
Guernsey (St. Peter Port)	173	1040.4	-2	-	0	c	35	97	7	4000	St Cu	8	-	8

Observations at 7h. G.M.T. 18th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	1021.7	-2	SW	4	or.	49	97	7	1500	Nb	10	-	10	*
Stornoway	1024.4	0	S	5	bc	50	92	7	4000	Cu	6	-	6	4
Wick	1022.9	-1	SW	3	c	46	97	8	1500	St Cu	7	ASt	10	1
Tiree	1028.5	-1	SW	5	c	49	97	7	4000	St	7	ASt	10	4
Nairn	1026.9	*	WSW	2	bc	47	85	8	2500	Cu	6	-	6	*
Aberdeen	1028.9	-1	SSW	2	c	42	85	6	-	-	0	ACu	8	0
Malin Head	1030.6	-1	S	5	c	46	97	7	4000	St Cu	9	-	9	1
Renfrew	1032.4	-1	SSW	3	o/r	45	97	6	1500	Nb	10	-	10	*
Edinburgh (Inchkeith)	1033.1	-1	WSW	3	c	44	92	7	4000	St Cu	4	ASt	10	0
Leuchars	1031.1	0	WSW	4	bc-	42	92	8	2500	St Cu	4	-	4	*
Eskdalemuir	1034.1	-1	S'W	3	o	41	97	5	450	St	10	-	10	*
Tynemouth	1034.8	-1	WSW	1	fo	39	92	3	800	St	10	-	10	2
Blacksod Point ...	1030.6	-2	S	3	cr	50	92	7	*	CuNb	9	-	9	5
Donaghadee	1033.2	-2	W	1	dp	44	92	7	4000	CuNb	8	-	8	1
Birr Castle	1033.9	-1	S	1	c	46	97	7	4000	St Cu	9	-	9	*
Holyhead	1035.5	-2	S	4	od.	47	92	6	1500	Nb	10	-	10	1
Liverpool (Bidston) ...	1036.5	-1	S	3	b	37	92	6	1500	St	2	-	2	*
Chester (Sealand) ...	1036.5	-2	SSE	2	b-	34	92	6	4000	St Cu	2	-	2	*
Harrogate	1036.7	0	SW	3	b	37	92	5	-	-	0	ACu	2	*
Spurn Head	1037.6	0	WSW	3	c	37	85	6	4000	Cu	9	-	9	4
Birmingham (Edgbaston)	1038.6	-1	SW	3	c+	37	75	7	4000	St Cu	10	-	10	*
Cranwell	1038.4	-2	SW	2	c	35	75	6	4000	St Cu	9	-	9	*
Gorleston	1039.0	0	WNW	2	FFbc	28	97	0	220	St	4	CuCu	6	0
Valentia (Cahirciveen) P	1033.0	-3	SSE	3	c	47	85	8	2500	St Cu	9	-	9	3
Roches Point	1034.7	-1	S	2	c	48	92	8	2500	St Cu	10	-	10	1
Pembroke (St. Ann's H.)	1037.3	-1	SSW	2	c	48	85	7	2500	St Cu	10	-	10	2
Ross-on-Wye	1038.7	-2	S'W	2	c	37	75	5	4000	St Cu	10	-	10	*
Leafield	1038.9	-2	SW	2	c+	32	85	8	5700	St Cu	9	-	9	*
Winchester (Worthy Dn.)	1039.9	-1	-	0	mmb	23	97	4	-	-	0	-	0	*
S. Farnborough ...	1040.1	-1	-	0	mmc	25	97	4	4000	St Cu	9	-	9	*
London (Kew Obsy.) ...	1040.3	-1	-	0	mmc	31	97	4	-	-	0	ACu	9	*
Croydon	1039.9	0	-	0	ffbc	29	92	3	4000	St Cu	3	ACu	5	*
Shoeburyness	1039.9	0	NW	2	ffb	30	92	3	-	-	0	-	0	*
Clacton-on-Sea ...	1039.2	0	NW	3	c	33	85	6	7200	St Cu	8	-	8	0
Felixstowe	1040.5	0	NWW	2	ffb	33	97	3	-	-	0	-	0	0
Lympne	1039.2	0	N'W	3	ffb	31	92	3	-	-	0	-	0	*
Scilly (St. Mary's) ...	1037.9	-2	SE	3	bc	44	85	8	4000	Cu	5	-	5	1
Falmouth (Pendennis)	1039.7	-1	-	0	bc-	37	97	6	4000	St Cu	5	-	5	0
Plymouth (Mt. Batten)	1039.0	-1	NE	3	c	39	85	8	4000	St Cu	9	-	9	0
Portland Bill	1038.3	-1	NNE	2	c	42	65	7	2500	St Cu	8	-	8	0
Southampton (Calshot)	1039.9	-1	NW	2	b	31	92	6	-	-	0	-	0	0
Dungeness	1039.4	0	NW	1	ffb	27	97	1	-	-	0	-	0	8
Guernsey (St. Peter Port)	1039.4	+2	-	0	c	37	92	7	2500	St Cu	8	-	8	*

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 17th December

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 16th to 9h. 17th.	Temperature. Max. 9h. 17th. 17th	Rainfall.† Night 17h.-9h. 16th-17th	Rainfall.† Day 9h.-17h. 17th	Sunshine. Sunrise to Sunset. 17th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bc	bc	32	35	-	-	4.7
Douglas (I. o. M.) ...	bx	bcc	36	44	-	-	3.0
Llandudno ...	obc	bcc	37	46	-	-	4.1
Colwyn Bay ...	bbcb	bbcb	38	45	-	-	4.2
Rhyl	bc	bc	33	45	-	-	4.0
Wallasey	bc	cbbc	39	47	Trace	Trace	0.6
Southport	bbccd	cbcco	40	44	-	1	1.5
Blackpool	bcc	cpc	39	44	-	0.2	1.6
Morecambe ...	xcocb	bcc	30	43	-	-	2.4
Ilkley	cbc	co	31	41	-	-	0.9
Cleethorpes	xfb	bfx	34	42	-	-	4.6
Mablethorpe ...	bxm	bm	33	41	-	-	5.4
Skegness	bxm	b	30	42	-	-	5.1
Aberystwyth ...	bc	xo	29	43	-	-	3.7
Bath	fmb	bm	27	40	-	-	4.8
Cheltenham‖ ...	xbcb	bbcm	26	44	-	-	2.3
Leamington Spa ...	bcc	bc	26	36	-	-	0.8
Lowestoft	bmb	b	32	39	-	-	4.3
Harwich‖ Dovercourt	xbm	bm	34	41	-	-	5.3
Maidor	fb	o	34	41	-	-	5.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcb	b	33	42	-	-	4.1
Bude	xb	b	27	40	-	-	4.7
St. Ives	b	b	36	45	-	-	6.6
Penzance	bbc	bc3	34	46	-	-	6.5
Paignton	bm	bm	27	43	-	-	5.1
Torquay	bmx	bm	32	43	-	-	6.6
Jersey	bc3bc	bcb3	35	48	-	-	6.6
Weymouth	fb	b	29	44	-	-	6.5
Bournemouth ...	b	b	28	41	-	-	6.6
Ventnor	xb3	b3	33	43	-	-	6.6
Portsmouth (S'thsea)	b	bm	32	42	-	-	6.6
Bognor Regis ...	b	b	32	42	-	-	6.6
Littlehampton ...	b	bbc	29	45	-	-	6.6
Worthing	b	b	33	43	-	-	6.6
Brighton	b	b	32	43	-	-	6.6
Eastbourne	b	b	36	42	-	-	6.6
Hastings‖	xmb	bbcm	32	43	Trace	-	6.6
Folkestone	xb3	b3	34	42	-	-	6.6
Dover	xmb	bm	36	41	-	-	6.6
Deal	b	b	33	41	-	-	6.6
Tunbridge Wells ...	mb	bm	28	41	-	-	6.6
Ramsgate	bm	bm	36	42	Trace	-	6.6
Margate	bc	bc	38	43	-	-	6.6
Southend	bm	bm	33	43	Trace	-	6.6

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. † For rails see page 1. ‡ See Rainfall.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h.; the minimum for the period 21h.-09h. & 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,864 Thursday 19th December 1929.

Observations at 18h. G.M.T. 18h

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1022.2	-1	W'S	3	c/p	49	92	7	1500	CuNb	4	ASt	8	•
Stornoway	1023.4	-2	SW	2	cd d	51	85	7	4000	CuNb	7	CiSt	9	•
Wick	1025.8	-1	SW	3	bc	47	97	8	2500	StCu	5	CiSt	7	•
Tiree	1027.5	-1	SW	5	c	49	92	7	4000	StCu	9	ACu	10	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1029.3	-1	SSW	3	bc	48	85	7	4000	StCu	1	ACu	3	2
Malin Head	1029.5	-1	SSW	5	c/r	48	92	7	2500	StCu	5	ACu	8	•
Renfrew	1031.3	-2	SSW	4	c/r	47	92	6	800	St	10	-	10	2
Edinburgh (Inchkeith)	1031.7	-2	SW	3	c	47	92	8	800	St	9	ACu	10	•
Leuchars	1030.3	-2	WSW	3	c	47	85	6	800	St	9	ACu	9	2
Eskdalemuir	1033.3	-1	SSW	4	cd d	43	97	4	4150	St	10	-	10	2
Tynemouth	1032.8	-1	WSW	1	ff bc	43	92	3	800	St	5	-	5	•
Blacksod Point	1024.8	-1	S	5	c	49	85	8	*	CuNb	9	-	9	•
Donaghadee	1032.4	-2	SW	1	c	48	85	7	4000	StCu	8	-	8	•
Birr Castle	1032.5	-2	S	2	c	48	75	8	2500	Cu	7	Ci	8	•
Holyhead	1034.6	-2	SW'S	3	c/p	50	85	6	1500	StCu	9	-	9	1
Liverpool (Bidston)	1035.8	-2	S	3	b	42	85	6	4000	StCu	1	-	1	•
Chester (Sealand)	1035.7	-1	SSE	3	bc+	43	85	5	2500	Cu	3	-	3	1
Harrogate	1035.9	0	SSW	3	fc	41	85	3	4150	StCu	9	-	9	•
Spurn Head	1036.4	0	SW'W	3	bc	41	75	7	1500	St	3	Ci	4	•
Birmingham (Edgbaston)	1038.0	-1	SW	3	c	39	75	6	4000	StCu	9	-	9	2
Cranwell	1037.9	-2	SW'S	3	c	38	75	7	4000	StCu	9	-	9	1
Gorleston	1039.0	0	W'N	2	mmbc	39	92	4	1500	St	3	ACu	5	•
Valentia (Cahirciveen)	1030.8	-4	S'E	4	bc	49	75	8	2500	Cu	6	-	6	2
Roches Point	1033.3	-2	SW	4	c-	49	85	8	2500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	1035.9	-2	SSW	4	c-	48	85	7	2500	StCu	9	-	9	•
Ross-on-Wye	1038.0	-1	SW	3	c	40	85	6	4000	StCu	10	-	10	2
Leafield	1038.3	-1	SSW	2	c	34	85	6	5700	StCu	9	-	9	3
Winchester (Worthy Dn.)	1038.9	-2	NW	2	b	36	85	5	-	-	0	-	0	2
S. Farnborough	1038.9	-2	SSE	2	bm	42	65	6	-	-	0	-	0	3
London (Kew Obsy.)	1039.3	-3	SW	1	ff b	38	75	3	-	-	0	-	0	
Croydon	1039.3	-2	SSW	1	mb-	42	65	4	-	-	0	-	0	2
Shoeburyness	1040.1	0	N	1	bm	40	75	4	-	-	0	ACu	1	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1039.5	-1	NW	1	mbc-	40	75	4	-	-	0	ACu	3	1
Lympne	1039.3	-2	N	2	bc/m	37	75	5	4000	StCu	7	-	7	2
Scilly (St. Mary's)	1036.4	-2	SSE	4	bc	47	75	7	4000	Cu	3	-	3	•
Falmouth (Pendennis)	1036.0	-2	S'W	4	bc	47	75	7	4000	Cu	6	-	6	•
Plymouth (Mt. Batten)	1037.8	-3	E	1	c	43	85	7	4000	StCu	9	-	9	2
Portland Bill	1037.7	-2	NNE	3	c+	45	75	7	2500	StCu	8	ASt	9	•
Southampton (Calshot)	1039.2	-3	-	0	mb-	43	75	5	-	-	0	-	0	0
Dungeness	1039.5	+2	SW	1	c+	35	92	5	5700	StCu	8	-	8	•
Guernsey (St. Peter Port)	1037.6	-2	-	0	c	44	75	7	4000	StCu	10	-	10	•

Observations at 18h. G.M.T. 18h

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1021.7	-1	SW	3	c/p	49	85	7	1500	CuNb	4	ACu	9	•
Stornoway	1021.7	-1	SW	5	bc-	49	92	7	2500	StCu	7	-	7	4
Wick	1024.4	-1	SSW	4	bc	47	92	8	2500	StCu	3	CiSt	5	3
Tiree	1025.3	-2	SW'S	6	c	47	85	7	4000	StCu	8	ASt	10	6
Nairn	1025.5	SW	W'E	2	bc+	49	75	8	2500	StCu	7	-	7	•
Aberdeen	1028.8	-1	SSW	3	c+	46	92	6	1500	St	6	CiSt	8	0
Malin Head	1027.5	-2	S	5	c	45	85	7	4000	StCu	8	-	8	3
Renfrew	1030.5	0	SSW	4	cd	47	92	6	800	St	10	-	10	•
Edinburgh (Inchkeith)	1030.4	-1	SW	3	bc	47	92	7	4000	StCu	3	-	3	0
Leuchars	1029.4	-1	SW	2	c	47	85	6	800	St	9	ASt	10	•
Eskdalemuir	1031.9	-1	SSW	4	fodd	43	97	3	4150	St	10	-	10	•
Tynemouth	1031.9	-2	SW	2	fo-	43	92	3	1500	Nb	10	-	10	2
Blacksod Point	1025.6	-3	S	6	c	49	75	7	*	CuNb	8	-	8	6
Donaghadee	1031.0	-1	-		c	46	55	6	1500	St	10	-	10	6
Birr Castle	1030.5	-2	S	1	b-	42	92	8	-	-	0	ACu	1	•
Holyhead	1033.7	-1	S	4	c+	46	85	6	1500	StCu	9	-	9	1
Liverpool (Bidston)	1035.0	0	S	2	c+	43	75	7	4000	St	10	-	10	•
Chester (Sealand)	1034.7	-1	SSE	2	c	43	75	6	4000	StCu	9	-	9	•
Harrogate	1035.3	-1	SSW	1	c	41	97	5	2500	St	10	-	10	•
Spurn Head	1035.9	0	SW	3	bc	37	85	6	2500	StCu	3	-	3	2
Birmingham (Edgbaston)	1037.0	-1	S	2	c	38	75	6	4000	StCu	10	-	10	•
Cranwell	1037.2	0	S	1	c	35	85	5	4000	StCu	10	-	10	•
Gorleston	1038.8	0	W'S	2	b	35	85	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1028.1	-2	S'E	4	c	49	85	8	1500	StCu	8	-	8	4
Roches Point	1030.9	-3	SW	4	c	48	92	8	1500	CuNb	8	-	8	4
Pembroke (St. Ann's H.)	1034.5	-1	S	4	bc-	47	92	7	2500	StCu	6	-	6	1
Ross-on-Wye	1037.0	-1	SW	1	bc-	38	85	5	4000	StCu	6	-	6	•
Leafield	1037.6	-1	S	1	b-	32	92	6	4000	StCu	1	-	1	•
Winchester (Worthy Dn.)	1038.1	-1	-	0	b	30	92	5	-	-	0	-	0	•
S. Farnborough	1038.6	0	SSE	1	ff b	30	92	3	-	-	0	-	0	•
London (Kew Obsy.)	1039.0	0	-	0	mmb	33	92	4	-	-	0	-	0	•
Croydon	1039.7	0	SSE	3	mb-	32	85	4	-	-	0	-	0	•
Shoeburyness	1039.3	-1	-	0	mmbc	32	92	4	-	-	0	ACu	3	•
Clacton-on-Sea	1039.1	0	NW	1	bc	35	75	5	7200	StCu	4	-	4	0
Felixstowe	1039.5	0	-	0	b/m	33	92	5	-	-	0	-	0	0
Lympne	1039.0	+1	NNE	1	c+	36	75	5	2500	StCu	10	-	10	•
Scilly (St. Mary's)	1034.8	-1	SSE	5	bc	44	85	7	4000	Cu	3	-	3	2
Falmouth (Pendennis)	1036.3	-1	S'W	4	bc	46	75	7	4000	Cu	5	Ci	7	1
Plymouth (Mt. Batten)	1036.3	-1	E	3	b-	41	85	6	4000	StCu	2	-	2	0
Portland Bill	1036.3	-2	S'E	3	c+	46	65	7	1500	StCu	10	-	10	1
Southampton (Calshot)	1037.9	-1	SE'S	3	b	42	75	6	-	-	0	Ci	1	0
Dungeness	1039.0	0	NW	1	c+	35	92	5	2500	StCu	10	-	10	1
Guernsey (St. Peter Port)	1037.0	-2	-	0	bc-	43	75	6	4000	StCu	4	-	4	2

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 16h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Sea.
Kew	18	bfx	bfxbma	bfxbax	39	29	19	-	Tr	4.1	*	*	5
Croydon	244	bcbffx	b3fma	bcbmgx	42	30	24	-	-	5.7	*	*	5
Greenwich (Royal Obsy.)	149	bfx	bfx	bfcbmx	38	28	15	Tr	Tr	2.9	67	76	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	41	29	23	-	-	0.2	64	77	*
Regent's Pk. (Botanic Gdns)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	xbf	b	*	38	32	*	-	-	*	*	86	*
Kensington Palace	80	bm	bm	*	41	31	21	-	-	*	(At 18h. G.M.T.) 80		*
Hampstead Observatory	452	*	*	*	39	30	21	Tr	Tr	2.5	*	88	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
2.6	20hrs 18th	0.3	5-6hrs 19th

Kew Observatory

Max.	Time.	Min.	Time.
1.4	22hrs 18th	0.1	6hrs 19th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 18h. 17 h. 00 m. to 19h. 07 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 00	9 56	71
δ Ursae Minoris	14 00	9 27	68

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 15h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

19th-20th December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4	11.50	15.37
	8.4	11.51	15.37
Greenwich	8.4	11.57	15.50
	8.5	11.57	15.50
Wick	9.3	12.9	15.16
	9.4	12.10	15.16
Valentia	8.48	12.38	16.28
	8.46	12.38	16.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

SYMBOLS.

< = (less than (for cloud height). < = (before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—b/fy = fair weather after rain; — = has decreased; + = has increased.

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell } Calm or slight sea.
2=heavy swell } Calm or slight sea.
3=no swell } Moderate sea.
4=mod. swell } Moderate sea.
5=heavy swell } Moderate sea.
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

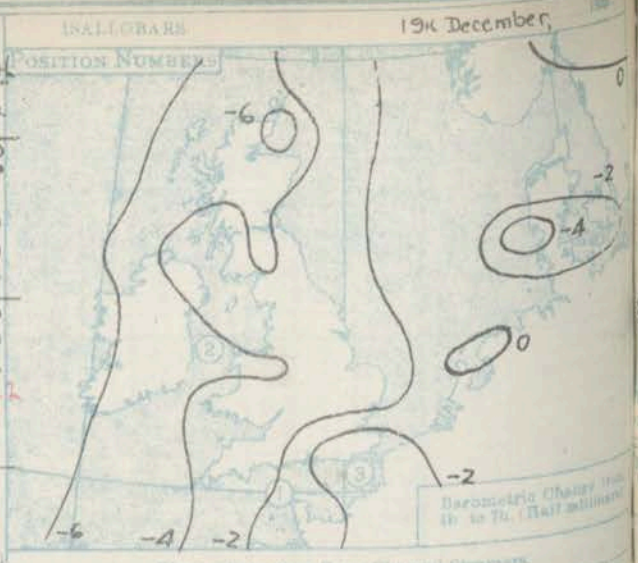
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 18H	Weather. 18h.-18h. 18H	Weather. 18h. 18H to 1h. 19H	Weather. 1h.-7h. 19H	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day, 7h.-18h. mm	Rainfall.† Day, 7h.-18h. began.	Rainfall.† Night, 18h.-7h. mm.	Rainfall.† Night, 18h.-7h. began.	Sun 18H Hours.
Lerwick	cir₀	cir₀	cir₀q	cbq	50	45	•	1	<8.00	0.2	<21.00	0.0
Stornoway	p	o	cRc	cf	51	46	•	0.1	11.00	0.2	03.30	0.0
Wick	c	b-bc	b-bc	c	48	45	•	–	–	–	–	•
Tiree	c	c	c	c	50	44	41	–	–	–	–	0.0
Nairn	bcjp	bc	bc	bc	50	42	•	–	–	–	–	3.0
Aberdeen	f₀bc	bcm₀	c2₀	cbcq	48	43	37	–	–	–	–	2.3
Malin Head	cr₀	c	cbc c	cbc	48	42	•	0.1	9.00	–	–	0.6
Renfrew	cm₀r₀	oir₀id	ia₀bcc	bccm₀	47	41	35	0.3	<8.00	Tr	<21.00	0.0
Edinburgh (Inchkeith)	c	cbc	bccir₀	b-bc	48	43	37	–	–	Tr	<21.00	0.2
Leuchars	bccm₀	cmcwm₀	cwm₀bw	bw	47	37	28	Tr.	–	–	–	0.3
Eskdalemuir	od₀d₀m	od₀odf	odfodc	bc	43	37	34	3	<8.00	1	<21.00	0.0
Tynemouth	obcff	bcoff	offoc	cm₀	44	35	32	–	–	–	–	•
Blacksod Point ...	cq	bcq	cqc	cq	51	47	•	0.3	•	–	•	•
Donaghadee	c	om₀	bbc	bc	49	42	•	–	–	–	–	•
Birr Castle	c	cbc	bbc	bcr₀	48	39	31	–	–	Tr	04.30	2.2
Holyhead	d₀cm₀	p₀rc	cbcm₀	cbcm₀	50	43	41	Tr.	<8.00	–	•	0.0
Liverpool (Bidston) ...	b₀cbm	bbcc	co	bm₀	43	33	31	–	–	–	–	4.7
Chester (Sealand) ...	bm₀mbc	becm₀	cbm₀	bm₀	44	32	28	–	–	–	–	4.4
Harrogate	bbccf	cfco	ocb	bx	42	31	26	–	–	–	–	0.0
Spurn Head	cbc	bc	bcc2	cbcmx	41	34	•	–	–	–	–	5.1
Birmingham (Edgbaston)	bc	c	cbc	bc	39	31	28	–	–	–	–	0.0
Cranwell	c	cbccm₀	cm₀bm₀	bm₀cm₀	39	29	26	–	–	–	–	0.5
Gorleston	Ffbcw	bcbmm₀x	bbcc	cbc	39	34	25	–	–	–	–	4.0
Valentia (Cahirciveen)	cbc	bcc	cq	cq	50	48	46	–	–	–	–	2.6
Roches Point	c	c	c	c	50	(45) 48	•	–	–	–	–	•
Pembroke (St. Ann's H.)	c	cbcq	bcc	qm₀q	49	45	•	–	–	–	–	0.0
Ross-on-Wye	cmm	cm₀	bmf	bbc	41	31	20	–	–	–	–	0.0
Leafield	c	cbcmb	mbx	mbx	36	29	19	–	–	Tr	–	1.6
Winchester (Worthy Dn.)	bm₀xbm₀	bm₀bm	bm₀mxc	cbcm₀x	41	27	18	–	–	Tr	–	5.7
S. Farnborough ...	cbfmx	bm₀f	bfxcbm	bmxm₀	43	29	20	0.1	–	Tr	–	5.4
London (Kew Obsy.) ...	bfx	bfxbmx	bcfx	bcfxbm₀x	39	29	19	–	–	Tr	–	4.1
Croydon	bcxbffm	b3fmx	bm₀mbccx	cbcbm₀x	42	30	24	–	–	–	–	5.7
Shoeburyness	bfbm	bm	bm	bxb	42	30	24	–	–	–	–	2.8
Clacton-on-Sea ...	cbcm	bcm	bcm	bcmb	40	35	25	–	–	–	–	4.1
Felixstowe	bfxbm	bc3bm	b2₀x	bm₀x	40	30	22	–	–	–	–	4.0
Lympne	bcmm₀	becm₀	cbm₀	bm₀b	38	35	28	–	–	–	–	0.6
Scilly (St. Mary's) ...	bc	bc	bcb	bbcc	47	42	•	–	–	–	–	6.2
Falmouth (Pendennis)	bcb3	bc	bccq	cbcq	48	44	•	–	–	–	–	4.5
Plymouth (Mt. Batten)	c	cbm₀	bm₀	b	44	39	34	–	–	–	–	0.5
Portland Bill	c	o	c	cbcb	47	39	•	–	–	–	–	•
Southampton (Calshot)	bm₀fxbm	bm₀	bm₀cm₀	cbcb	44	35	32	0.3	–	–	–	5.4
Dungeness	bfocmcw	cm₀m	cm₀bc	b	37	(36)	•	–	–	–	–	•
Guernsey	omo°	ocbc	cbcbc	bcb2	45	39	32	–	–	–	–	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	17th 10h	HIBERNIA	S	4	C+	49	51
3	19th 01h	DIEPPE	S	3	bc	40	51

General Inference.

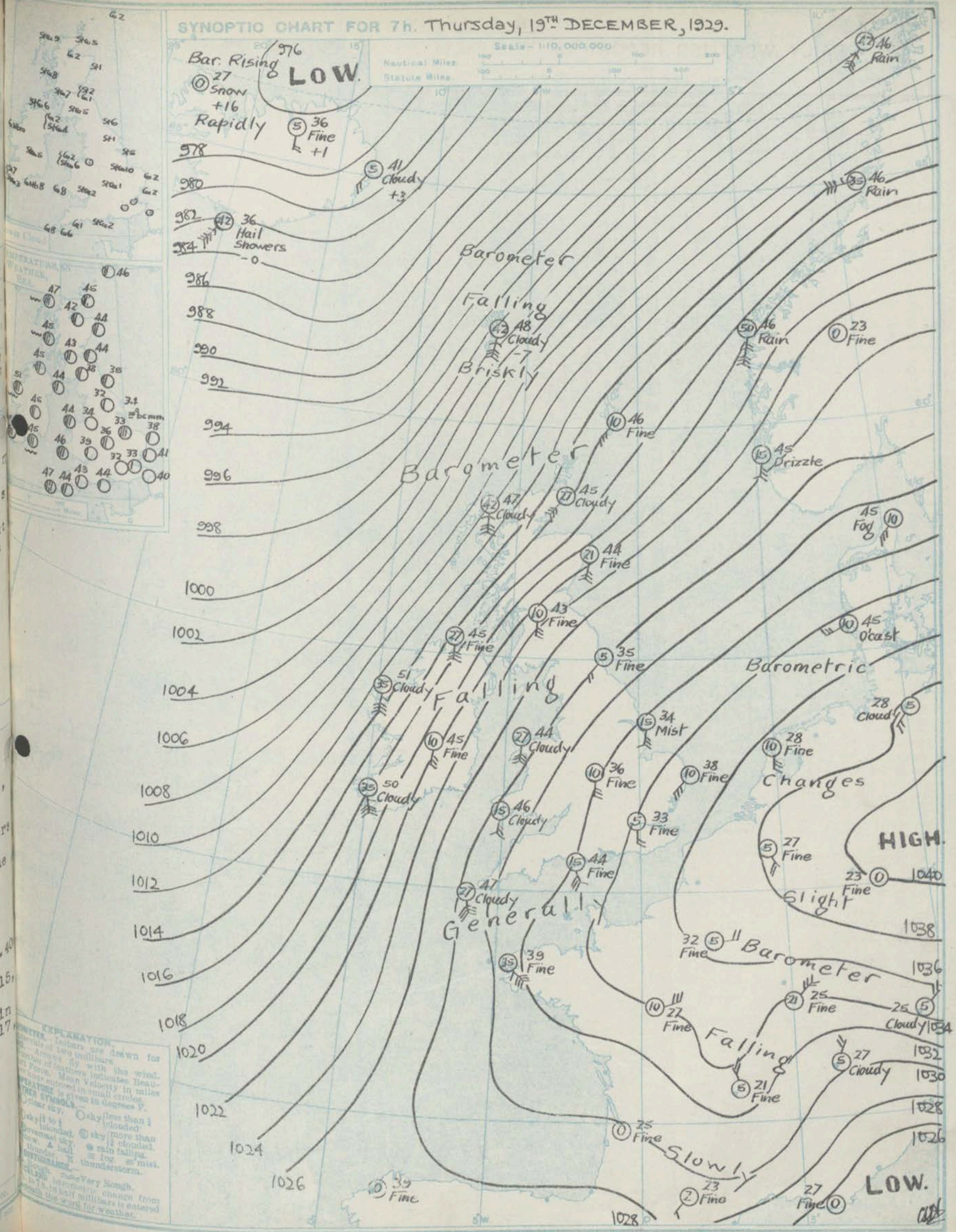
The anticyclone over Germany is retreating, and a trough of low pressure off West Ireland is moving eastwards. Its passage will be accompanied by rain, but it is unlikely to reach Eastern England till later tomorrow.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 19th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southerly, light or moderate, freshening; bright today, cloudy tomorrow; milder.	A break in the fair weather in Eastern England, perhaps only slight and temporary. Showers and bright intervals in the West.
4. W. Midlands	Freshening southerly wind; fair today, some rain tomorrow; mild.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Fresh or strong southerly wind, veering tomorrow; cloudy, rain later; mild.	
9. N. Midlands 10. N.E. England	As 4.	South Cone hoisted at 18h.40 on the 17th in districts 13B, 15, and 16; at 0200 today in districts 13A, 17, 18 and 20.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 5 - 8.	
13A. N.W. Scotland 13B. N.W. Scotland 14. Mid Scotland	Wind southerly, strong to gale, veering west and moderating somewhat; rainy at first, showers and bright intervals later; mild.	
15. N.E. Scotland 16. Orkneys and Shetlands	As 5 - 8.	
17. N.W. Ireland	As 13.	
18. N.E. Ireland 19. S.E. Ireland	As 5 - 8.	
20. S.W. Ireland	As 13.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0950 G.M.T. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 19th December 1929. No. 353

Observations at 1h. G.M.T. 19th

Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	54	1019.6	-3	SW	4	c/p	49	75	7	1500	CuNb	5	ACu	9
Stornoway	30	1017.3	-4	SW	7	c	•	•	6	•	•	•	•	10
Wick	81	1020.6	-4	SW	4	bc	45	85	8	2500	CuNb	2	CuSt	5
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	31	1013.0	-5	S	6	c	44	85	7	2500	StCu	9	ACu	9
Renfrew	38	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	1028.5	-2	WSW	2	bc	45	85	7	2500	St	2	ACu	4
Leuchars	33	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1030.8	-2	SW	2	c	40	92	6	1500	Nb	8	–	8
Blacksod Point ...	18	1021.3	-4	S	7	c	49	75	7	•	CuNb	9	–	9
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	20	1030.4	-3	S'E	5	c+	44	85	6	1500	StCu	9	–	9
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1034.6	0	SW's	4	c+	37	92	5	1500	St	10	–	10
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	230	1035.5	-1	SSW	3	b-	34	85	6	–	–	0	ACu	1
Gorleston	14	1037.9	-2	SW'W	2	c	35	85	6	4000	StCu	10	–	10
Valentia (Cahirciveen)	30	1029.6	-4	S	4	0+	50	97	8	•	St	10	–	10
Roches Point	32	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	1031.7	-1	S	3	c+	45	97	7	4000	Cu	8	–	8
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	267	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	31	•	•	•	•	•	•	•
Croydon	244	1037.1	-3	SSE	3	c+	35	75	5	4000	StCu	8	–	8
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	1037.8	-2	SSE	2	b-	39	75	6	–	–	0	ACu	1
Scilly (St. Mary's) ...	103	1031.9	-3	SSE	6	b	43	85	7	4000	Cu	2	–	2
Falmouth (Pendennis)	200	1034.6	-3	S'E	5	c	45	65	7	4000	Cu	8	–	8
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1034.6	-3	SSE	4	c	46	65	7	1500	StCu	9	–	9
Southampton (Calshot)	10	1035.8	-3	SSE	4	c	45	75	7	2500	StCu	10	–	10
Dungeness	30	1038.3	-1	S	3	b-	42	75	8	2500	StCu	1	–	1
Guernsey (St. Peter Port)	173	1036.0	-2	SSE	3	bc-	42	85	7	2500	Cu	4	–	4

Observations at 7h. G.M.T. 19th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun 0-8
Lerwick	1016.8	-2	SW	3	bc	46	75	8	1500	Cu	2	ACu	3	•
Stornoway	1010.9	-5	S	8	c	47	85	7	4000	StCu	9	–	9	6
Wick	1015.7	-6	SW	6	c	45	65	8	2500	StCu	5	ASt	10	4
Tiree	1015.8	-5	S'W	8	c	45	85	6	4000	StCu	8	ASt	10	7
Nairn	1016.2	•	W	1	bc	42	65	8	2500	Cu	2	ACu	5	•
Aberdeen	1020.5	-5	SSW	5	bc-	44	75	7	1500	St	1	ACu	6	0
Malin Head	1017.5	-3	S	6	bc-	45	85	7	2500	StCu	6	ACu	7	3
Renfrew	1023.4	-3	S	3	bc	43	85	6	4000	StCu	7	–	7	•
Edinburgh (Inchkeith)	1029.9	-4	SW	3	bc	44	75	7	2500	St	3	–	3	0
Leuchars	1023.3	-3	SSW	1	b	40	85	7	2500	StCu	2	–	2	•
Eskdalemuir	1026.1	-4	SSW	5	bc	38	92	6	1500	StCu	5	–	5	•
Tynemouth	1027.9	-3	SW	2	bc-	35	92	5	800	St	6	–	6	1
Blacksod Point ...	1012.8	-6	S	7	c	51	65	7	•	CuNb	10	–	10	7
Donaghadee	1023.3	-3	SW	2	bc	44	85	7	4000	StCu	6	–	6	1
Birr Castle	1020.7	-4	SSW	3	bc	45	85	67	4000	StCu	5	–	5	•
Holyhead	1026.2	-4	S	6	c+	44	85	6	1500	StCu	8	–	8	5
Liverpool (Bidston) ...	1028.5	-3	S'E	4	b	34	85	6	–	–	0	–	0	•
Chester (Sealand) ...	1028.5	-4	S'E	4	b	33	85	5	–	–	0	–	0	•
Harrogate	1030.3	-2	S	2	b	32	85	5	2500	St	1	–	1	•
Spurn Head	1032.1	-1	SSW	4	mmbc	34	92	4	450	St	5	–	5	3
Birmingham (Edgbaston)	1031.8	-3	S	3	bc	36	85	7	4000	StCu	1	ACu	3	•
Cranwell	1032.5	-3	S	4	c+	33	85	6	2500	StCu	10	–	10	•
Gorleston	1035.3	-2	SW	3	b-	38	85	6	5700	Cu	2	–	2	0
Valentia (Cahirciveen)	1017.3	-6	S'E	7	c	50	75	8	2500	St	10	–	10	5
Roches Point	1023.5	-4	SW	6	c	45	85	8	1500	CuNb	8	–	8	6
Pembroke (St. Ann's H.)	1027.9	-3	S	4	c	46	65	8	4000	Cu	8	–	8	3
Ross-on-Wye	1031.1	-3	S'E	3	b	39	75	7	4000	StCu	2	–	2	•
Leafield	1032.5	-2	SSE	3	mmb	31	92	4	–	–	0	CuSt	21	•
Winchester (Worthy Dn.)	1033.8	-1	S'E	2	b	32	85	6	–	–	0	–	0	•
S. Farnborough ...	1034.1	-2	S'E	2	b	32	92	5	–	–	0	–	0	•
London (Kew Obsy.) ...	1034.7	-1	S'E	2	b	33	85	5	–	–	0	ASt	1	•
Croydon	1034.7	-4	S	1	b	32	85	6	–	–	0	–	0	•
Shoeburyness	1035.6	-1	S	3	b	34	85	8	–	–	0	–	0	3
Clacton-on-Sea ...	1035.2	-2	SSW	4	b	41	75	7	2500	Cu	2	–	2	0
Felixstowe	1035.7	-2	S'W	4	b	39	75	6	–	–	0	Cc	2	•
Lympne	1035.9	-2	S	2	b	35	75	7	–	–	0	–	0	0
Scilly (St. Mary's) ...	1028.1	-4	S'E	6	c	47	85	7	4000	Cu	8	–	8	3
Falmouth (Pendennis)	1030.1	-3	S'E	6	bc	44	75	8	4000	Cu	6	–	6	4
Plymouth (Mt. Batten)	1030.8	-3	SE	4	b	43	75	8	4000	Cu	1	–	1	•
Portland Bill	1031.5	-2	SSE	4	b-	44	65	8	2500	StCu	2	–	2	0
Southampton (Calshot)	1034.0	-2	SSE	4	b	40	65	7	–	–	0	–	0	0
Dungeness	1035.2	-3	S	2	b	40	65	8	–	–	0	–	0	3
Guernsey (St. Peter Port)	1033.0	-3	SSE	3	b-	39	75	6	–	–	0	–	0	•

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 18th December

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-17th. to 9h.-18th.	Temperature. Max. 9h.-17th. 18th.	Rainfall.† Night 17h.-9h. 17th-18th.	Rainfall.† Day 9h.-17h. 18th.	Sunshine. Sunrise to Sunset. 18th.
	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	32	46	–	–	0.0
Douglas (I. o. M.) ...	o	c	36	43	–	–	0.0
Llandudno ...	bbc	c	40	50	–	–	3.6
Colwyn Bay ...	b	bcxc	39	48	–	–	4.2
Rhyl	b	bc	38	48	–	–	4.5
Wallasey	fbc	bcc	37	44	–	–	3.3
Southport	coc	obcc	34	43	–	–	0.5
Blackpool	c	c	35	42	–	–	0.0
Morecambe ...	c	c	32	43	–	–	0.0
Ilkley	c	c	28	43	–	–	0.0
Cleethorpes	b	b	31	41	–	–	5.2
Mablethorpe ...	bxmy	bbcmy	31	40	–	–	5.5
Skegness	bxy	bm	31	39	–	–	5.3
Aberystwyth ...	o3	c3	31	45	–	–	0.0
Bath	mc	cocbm	28	38	–	–	0.6
Cheltenham ...	c	cbc	29	40	–	–	0.0
Leamington Spa ...	og	og	28	38	–	–	0.0
Lowestoft	bfob	cbfob	26	39	–	–	3.8
Harwich & Dovercourt	xbm	bmf	28	40	–	–	3.2
Maldon	xfb	bf	28	42	–	–	4.2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	co	bc	36	44	–	–	0.0
Bude	xbcb	b	29	45	–	–	5.5
St. Ives	b	b	37	47	–	–	3.3
Penzance	cb	b	35	49	–	–	4.0
Paignton	omocm	bcfo	29	42	–	–	0.0
Torquay	cmcfob	mbmo	33	46	–	–	0.0
Jersey	bfbc	bcbfo	34	46	–	–	3.2
Weymouth	mb	bcc	30	45	–	–	3.1
Bournemouth ...	b	bbco	28	40	–	–	4.2
Ventnor ...	xb3	cbc3	34	45	–	–	3.8
Portsmouth (S'thsea)	bfm	bmf	28	42	–	–	5.5
Bognor Regis ...	b	b	32	43	–	–	5.1
Littlehampton ...	bc	bc	29	43	–	–	5.4
Worthing	bcb	b	31	42	–	–	4.1
Brighton	bcc	cbcb	30	41	–	–	2.5
Eastbourne	mbbc	bcc	30	40	–	–	4.2
Hastings‡	xmb	bbcm	34	41	0.2	–	5.2
Folkestone	xbcmc	cm	34	41	–	–	0.9
Dover	fcbc	fbcmo	34	41	–	–	0.0
Deal	xff	fo	32	39	–	–	0.1
Tunbridge Wells ...	fb	bbcm	29	38	–	–	0.1
Ramsgate	bccm	cm	31	42	Trace	–	0.3
Margate	bcm	bc	38	43	–	–	4.3
Southend	bfc	bcofc	29	42	–	0.2	4.2

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. ‡ These observations at 7h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 9h. 18th. to 9h. 19th., the minimum for the period 9h. 17th. to 9h. 18th.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24865 FRIDAY 20th December 1929.

Observations at 13h. G.M.T. 19th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1011.5	-8	S	4	bc	47	75	8	1500	StCu	4	ACu	7	•
Stornoway	1005.6	-8	SSW	8	o	47	85	6	1500	Nb	10	-	10	•
Wick	1010.9	-7	SSW	8	bc	47	65	8	4000	StCu	4	Ci	6	•
Tiree	1008.7	-7	SW	8	c	46	85	6	2500	StCu	9	ASt	10	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1017.6	-4	S	4	bc	44	75	6	2500	Cu	5	ACu	6	2
Malin Head	1010.5	-9	S	7	c	47	75	7	2500	StCu	7	CiCu	8	•
Renfrew	1019.0	-6	S	4	c	45	75	7	1500	StCu	9	-	9	2
Edinburgh (Inchkeith)	1020.6	-5	SSW	4	bc	43	85	7	800	St	2	ACu	6	•
Leuchars	1019.6	-5	SW	4	bc	43	75	7	2500	StCu	5	-	5	1
Eskdalemuir	1021.9	-7	SW	2	c	36	85	6	1500	StCu	9	-	9	2
Tynemouth	1023.5	-3	SW	2	ffb	37	85	3	-	-	0	-	0	•
Blacksod Point	1006.8	-5	SE	8	oRR	50	92	7	•	Nb	10	-	10	•
Donaghadee	1016.6	-7	SW	6	bc	47	65	7	4000	Cu	7	-	7	•
Birr Castle	1014.4	-8	S	5	c+	49	75	8	1500	St	9	CiCu	10	•
Holyhead	1022.1	-5	S	6	c	44	75	7	1500	StCu	9	-	9	1
Liverpool (Bidston)	1024.6	-4	SE	4	b	39	85	7	-	-	0	-	0	•
Chester (Sealand)	1025.1	-5	SE	3	b	42	75	6	-	-	0	-	0	1
Harrogate	1026.0	-5	S	2	fb	38	75	3	150	St	2	-	2	•
Spurn Head	1028.4	-4	SWS	6	bc	40	75	6	-	-	0	ASt	5	•
Birmingham (Edgbaston)	1028.1	-4	S	4	b	40	65	6	-	-	0	-	0	2
Cranwell	1029.3	-5	S	4	b	38	75	6	-	-	0	-	0	1
Gorleston	1032.6	-5	SSW	4	b	43	92	7	-	-	0	-	0	•
Valentia (Cahirciveen)	1012.4	-7	SE	6	c	51	92	8	800	St	10	-	10	1
Roches Point	1018.5	-6	SW	6	c	50	92	8	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	1024.0	-5	S	5	c+	47	92	7	2500	StCu	10	-	10	•
Ross-on-Wye	1027.4	-4	S	4	b	43	65	6	-	-	0	-	0	0
Leafield	1028.9	-4	SE	5	b	38	75	7	-	-	0	-	0	3
Winchester (Worthy Dn.)	1030.4	-5	SE	4	b	42	65	7	-	-	0	-	0	2
S. Farnborough	1030.8	-5	S	4	b	43	55	6	-	-	0	-	0	3
London (Kew Obsy.)	1031.8	-4	SE	3	b	40	65	5	-	-	0	-	0	3
Croydon	1031.5	-5	SW	4	b	42	65	6	-	-	0	-	0	3
Shoeburyness	1030.0	-3	SSW	4	b	41	65	8	-	-	0	-	0	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	-	-	0	-	0	0
Lympne	1033.4	-3	S	4	b	41	75	8	-	-	0	-	0	0
Dover	1033.3	-3	SSE	4	b	39	65	7	-	-	0	-	0	2
Scilly (St. Mary's)	1024.3	-4	SE	6	c	47	85	7	4000	StCu	9	-	9	•
Falmouth (Pendennis)	1027.6	-4	SSW	6	c+	45	75	8	4000	Cu	7	-	7	•
Plymouth (Mt. Batten)	1028.1	-4	S	6	b	46	55	9	4000	Cu	7	-	7	2
Portland Bill	1029.3	-5	SSE	5	b	45	55	8	-	-	0	-	0	•
Southampton (Calshot)	1031.2	-4	SE	5	b	45	55	8	-	-	0	-	0	0
Dungeness	1032.6	-3	S	3	b	41	65	8	-	-	0	CiSt	2	•
Guernsey (St. Peter Port)	1030.4	-4	SSE	3	b	42	65	7	-	-	0	-	0	•

Observations at 18h. G.M.T. 19th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1007.0	-8	SSW	7	bc	46	75	8	1500	StCu	3	ACu	5	•
Stornoway	1000.7	-4	S	8	or+	47	92	6	1500	Nb	10	-	10	7
Wick	1006.1	-8	SSW	8	bc	46	75	8	2500	StCu	4	-	4	7
Tiree	1006.8	-2	WS	6	oR-	43	92	6	2500	Nb	10	-	10	7
Nairn	1006.0	•	SWS	4	bc	46	75	8	2500	Cu	5	-	5	•
Aberdeen	1013.6	-5	S	4	c	43	75	6	1500	St	8	-	8	4
Malin Head	1009.6	+4	WSW	5	crr	42	92	6	2500	Nb	8	ASt	10	6
Renfrew	1014.0	-5	S	4	c	45	75	6	1500	StCu	9	-	9	•
Edinburgh (Inchkeith)	1014.9	-7	SSW	6	bc	43	85	7	800	St	3	-	3	4
Leuchars	1015.0	-6	S	6	b	43	75	6	2500	StCu	1	-	1	•
Eskdalemuir	1017.5	-5	SSW	5	c	38	85	6	1500	StCu	10	-	10	•
Tynemouth	1020.6	-2	S	2	bf	36	85	5	800	St	4	-	4	1
Blacksod Point	1009.5	+1	W	3	c|RR	46	65	7	•	CuNb	9	-	9	5
Donaghadee	1012.4	-3	SW	7	c+	48	75	7	4000	CuNb	8	-	8	5
Birr Castle	1010.9	-3	S	4	orr	47	92	7	2500	Nb	10	-	10	•
Holyhead	1017.8	-5	SE	7	c	45	65	7	1500	St	10	-	10	6
Liverpool (Bidston)	1021.4	-2	SSE	4	b	38	75	7	-	-	0	-	0	•
Chester (Sealand)	1021.5	-3	S	2	b	36	85	7	-	-	0	-	0	•
Harrogate	1023.7	-2	-	0	b	33	97	5	2500	St	2	-	2	•
Spurn Head	1025.1	-1	SSW	6	bc	37	85	6	1500	St	4	-	4	4
Birmingham (Edgbaston)	1025.1	-3	S	4	b	36	92	7	-	-	0	-	0	•
Cranwell	1026.7	-3	SE	3	b	31	85	6	-	-	0	-	0	•
Gorleston	1030.1	-2	SSW	3	b	37	75	7	-	-	0	-	0	0
Valentia (Cahirciveen)	1013.7	+2	W	1	c|r	42	92	8	2500	St	7	ASt	10	4
Roches Point	1013.9	-5	SW	6	c+	49	97	7	1500	Nb	9	-	9	6
Pembroke (St. Ann's H.)	1020.0	-5	S	6	c	46	97	7	2500	StCu	10	-	10	6
Ross-on-Wye	1025.0	-3	SE	4	b	39	45	7	-	-	0	Ci	1	•
Leafield	1026.6	-2	SE	4	b	33	75	8	-	-	0	-	0	•
Winchester (Worthy Dn.)	1027.8	-3	SSE	3	b	34	75	7	-	-	0	-	0	•
S. Farnborough	1028.2	-4	SSE	2	b	35	75	5	-	-	0	-	0	•
London (Kew Obsy.)	1028.8	-4	SE	1	b	35	75	6	-	-	0	-	0	•
Croydon	1029.0	-3	S	3	b	35	75	5	-	-	0	-	0	•
Shoeburyness	1029.8	-3	SW	4	b	36	85	8	-	-	0	-	0	•
Clacton-on-Sea	1030.2	-3	S	5	b	39	75	7	-	-	0	-	0	4
Felixstowe	1030.0	-4	S	5	b	39	75	8	-	-	0	-	0	4
Lympne	1030.4	-2	SSE	3	b	36	75	6	-	-	0	-	0	•
Dover	1027.2	-4	SSE	3	b-	39	65	8	-	-	0	-	0	4
Scilly (St. Mary's)	1020.7	-3	S	6	c	48	75	8	4000	Cu	9	-	9	5
Falmouth (Pendennis)	1023.8	-4	SSW	7	c	45	75	7	4000	Cu	9	-	9	4
Plymouth (Mt. Batten)	1024.8	-4	S	6	b	44	65	7	4000	StCu	1	-	1	5
Portland Bill	1025.7	-5	SSE	4	b-	45	55	8	1500	StCu	2	-	2	6
Southampton (Calshot)	1028.1	-4	SSE	4	b	42	65	7	-	-	0	-	0	3
Dungeness	1029.6	-4	S	3	b	40	75	8	-	-	0	-	0	3
Guernsey (St. Peter Port)	1027.2	-4	SSE	3	b-	39	65	8	-	-	0	-	0	4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.§ (To-day.)
Kew	18	bm4x	b2o	bm4x	42	30	18	-	Tr	6.4	*	*	3
Croydon	244	bm2o	b2o	bm3x	42	31	25	-	-	6.8	*	*	6
Greenwich (Royal Obsy.)	148	bx	bx	bcm	41	26	12	Tr	Tr	6.5	65	83	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	1.3	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	44	32	23	-	-	5.4	62	65	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	4.6	*	*	*
Camden Square	110	xb	b	*	40	32	*	-	-	*	*	86	*
Kensington Palace	80	bm	bo	*	42	30	31	-	-	*	(At 18h.) 77		*
Hampstead Observatory	450	*	*	*	40	29	21	Tr	Tr	5.5	*	89	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 20th.

South Kensington Mkx.	Time.	Min.	Time.
2.0	10h 19th	0.6	2-6ho 30th.

Kew Observatory Max.	Time.	Min.	Time.
0.7	21ho 19th	0.1	3ho 20th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 19th 17h 00m. to 20th 7h 03m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.00	14.00	100
δ Ursae Minoris	14.00	14.00	100

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

1929. J.M. Noon for D.C., 1923.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4 / 8.5	11.51	15.57
Greenwich	8.5	11.51	15.38
	8.5	11.57	15.50
Wick	8.4	11.58	15.51
	8.5	12.10	15.16
Valentia	8.48	12.10	15.16
	8.49	12.38	16.29
	8.49	12.39	16.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skye
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.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.
< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; − = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	13½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

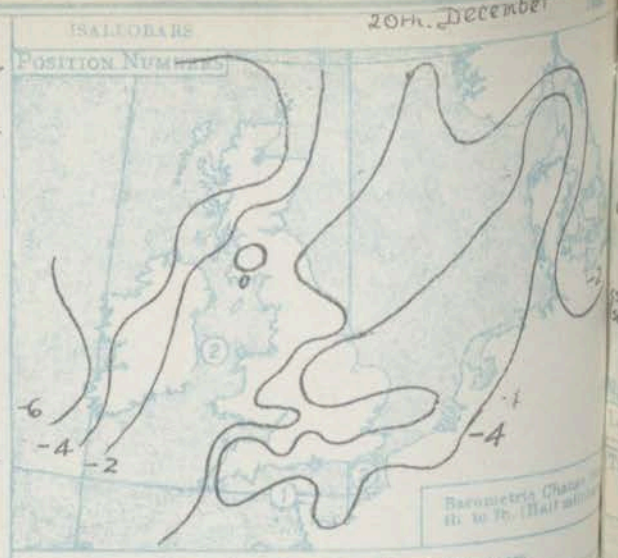
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 19th	13h.-18h. 19th	18h. 19th to 1h. 20th	1h.-7h. 20th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN on GRASS	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm	began.	SUN 19th Hours.
Lerwick	bcq	bc	cir₀	cir₀or₀	47	40	•	–	–	3	24·00	0·0
Stornoway	o	r-d	r-d	cD	48	37	•	2	16.30	3	<21·00	0·0
Wick	b-bc	b-bc	ca₀d'r	cid₀c	47	40	•	–	–	0·1	<21·00	•
Tiree	c3₀	crR	rHR	cpR	48	38	32	1	1530	6	<21·00	0·0
Nairn	bc	bcq	bcd₀c	pr₀c	47	36	•	–	–	0·6	<21·00	4·0
Aberdeen	bcq	bcc3₀	c2₀	c2₀orm₀	44	38	36	–	–	3	02.30	1·5
Malin Head	bcc	crm	crrcr₀c	cbcb	47	36	•	3	1530	6	<21·00	0·0
Renfrew	bccmc	cbccmq	r₀b rrq	rrqbcc	46	34	32	–	–	13	<21·00	0·0
Edinburgh (Inchkeith)	b-bc	b-bc	bcc	oir₀	45	38	36	–	–	Tr	03·30	2·3
Leuchars ...	wbcm₀bc	bcb	b-c	bcrrc	44	37	35	..	–	2	03·30	1·9
Eskdalemuir	bcc	cm	cs₀s₀	s₀s₀sossc	39	31	32	–	–	7	24·00	0·0
Tynemouth	bcff	bbcff	bc	bcois₀	39	33	29	–	–	Tr	06·30	•
Blacksod Point ...	cr	rpc	bqc	pq	51	38	•	13	•	3	•	•
Donaghadee	bcq	bccq	ir₀rr	cbc	48	34	•	–	–	5	<21·00	•
Birr Castle	bccq	cor₀r	orRc	cbcx	49	33	25	1	16.30	8	<21·00	0·5
Helyhead	cm₀cq	c	cq	KqRcbc	46	41	38	–	–	4	24·00	0·0
Liverpool (Bidston) ...	m₀b	b	bbcm₀	osc	40	33	31	–	–	0·3	04·30	5·4
Chester (Scaland) ...	bxm₀	b3₀	bbcm₀	cs₀m₀	43	34	26	–	–	1	04·30	5·6
Harrogate	bf	bfm	b	bomsso	40	31	23	–	–	1	03·30	1·3
Spurn Head	mdc	bc	bcb	b	41	33	•	–	–	–	–	3·~~8~~9
Birmingham (Edgbaston)	b	b	b	bos₀	40	31	30	–	–	0·2	06·30	6·0
Cranwell	bf₀	bm₀x	bm₀x	bm₀x	39	25	21	–	–	–	–	4·7
Gorleston	b	b	b	bxq	43	34	29	–	–	–	–	~~7·6~~·2
Valentia (Cahirciveen)	cpcdd ir₀	cRcrrc	cbcb	bbccp₀c	52	40	34	10	9.00	0·2	05·30	0·0
Roches Point	c	c₀cir₀	rrc	c	51	38	•	1	15·30	6	<21·00	•
Pembroke (St. Ann's H.)	cm₀q	oq	cpq	cr₀bc	47	43	•	–	–	5	24·00	0·0
Ross-on-Wye	b	by	by	bcco	43	35	29	–	–	–	–	6·6
Leafield	b	b	bx	bcc	39	28	25	–	–	–	–	6·~~1~~2
Winchester (Worthy Dn.)	bm₀b	b	bbcm₀x	bccm₀x	42	32	26	–	–	–	–	7·0
S. Farnborough ...	bmx bm₀y	bm₀y	bcm₀	cbccm₀	44	30	18	–	–	–	–	6·7
London (Kew Obsy.) ...	bm₀x	b3₀	bmx	bbcm₀x	42	30	18	–	–	Tr	–	6·4
Croydon	bm₀3₀	b3₀	bm₀x	bm₀x	42	31	25	–	–	–	–	6·8
Shoeburyness	b	b	bx	bx	42	30	28	–	–	–	–	6·9
Clacton-on-Sea ...	b	b	b	b	42	35	31	–	–	–	–	6·9
Felixstowe	b3₀	b	b	b	42	33	32	–	–	–	–	6·9
Lympne	b	b3₀	bz₀	bz₀cm₀	39	31	28	–	–	–	–	7·1
Scilly (St. Mary's) ...	c	c	cp₀or	Rcbc	48	42	•	–	–	4	22·00	0·0
Falmouth (Pendennis)	bcq	bccq	cq	cr₀q	45	43	•	–	–	2	03·30	0·6
Plymouth (Mt. Batten)	bvqy	bvqy	bqc	cordd	47	43	39	–	–	4	03·30	7·~~3~~2
Portland Bill	b	b	b	bbcc	47	38	•	–	–	–	–	•
Southampton (Calshot)	b-bc	bybm₀	by	bbcc	45	37	34	Tr	–	–	–	7·1
Dungeness	b	b	b	bbc	41	~~33~~	•	–	–	–	–	•
Guernsey	bzb	bzb	b	b-bcc	43	35	30	–	–	–	–	7·5

SUN 19th



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Diren.	Wind. Force	Weather.	Temp. Air	Temp. Sea
1	19th 13h	St Helier	S	5	bc	45	52
2	" 10h	Hibernia	S	8	c	48	51
3	20th 01h	Arundel	S	4	bc	35	50

GENERAL INFERENCE.

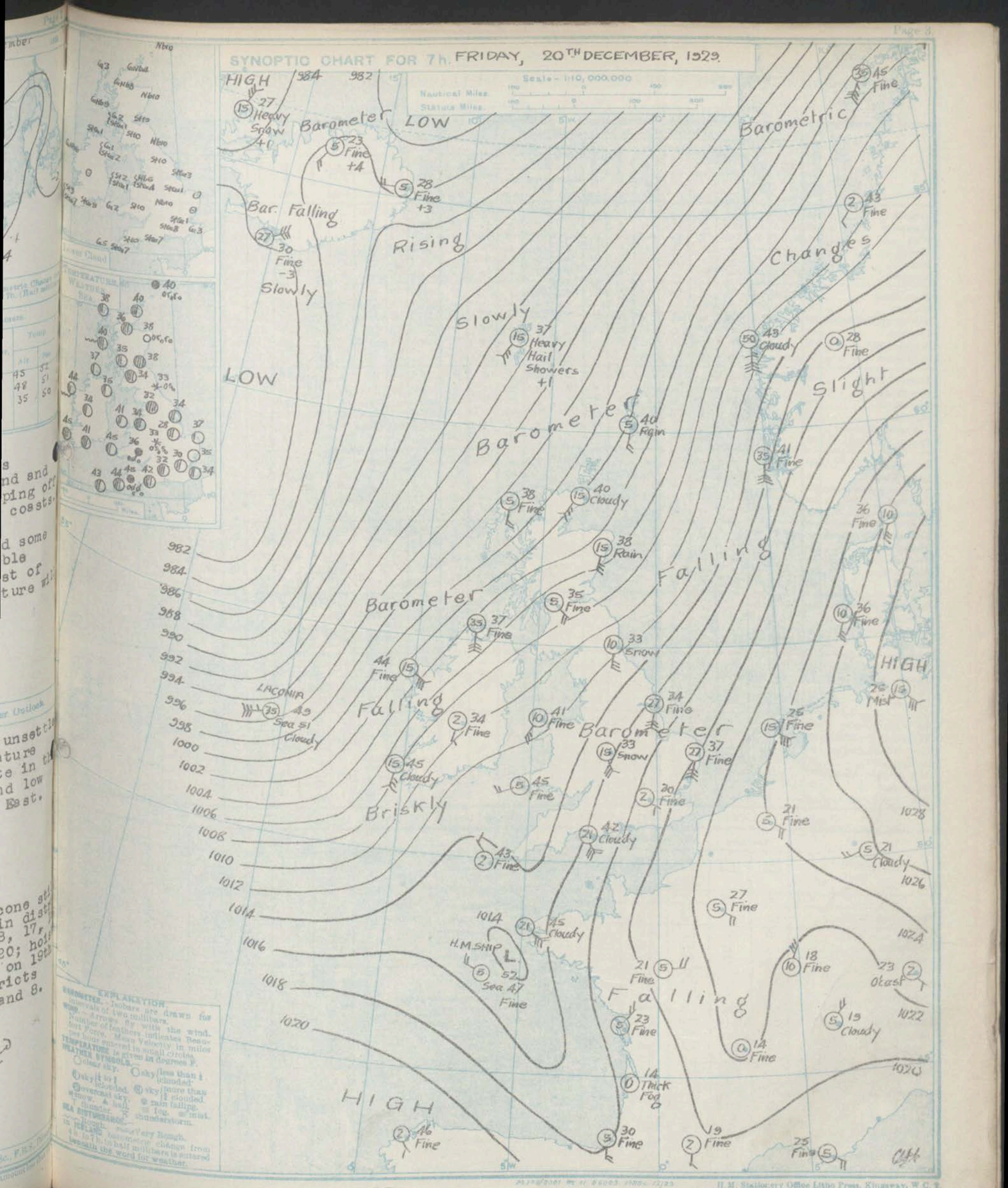
A large depression is centred south of Iceland and secondaries are developing off our west and southwest coasts. Weather will be rather unsettled generally and some sleet or snow is probable in the Midlands and East of England, where temperature will continue low.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 20th December, 1929.	Farther Outlook.
1. S.E. England 2. E. England	Moderate south or southeast winds, fresh locally; cloud increasing; probably sleet or snow later; cold.	Rather unsettl[illegible] temperature moderate in t[illegible] West and low in the East.
3. E. Midlands 4. W. Midlands	Wind southeast to variable, mainly light or moderate; some sleet or snow; mist locally; cold.	
5. S.W. England 6. South Wales 7. North Wales	Wind southerly, fresh or strong at times; rain at times; moderate temperature.	
8. N.W. England	As 11 - 12.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 3 - 4. Wind southerly, moderate or fresh; occasional rain or sleet, perhaps snow locally; moderate or rather low temperature.	South cone st[illegible] flying in dist[illegible] 13A, 13B, 17, 19 and 20; hoi[illegible] at 1400 on 19th in districts 5,6,7, and 8.
13. S.W. Scotland 13A. N.W. Scotland	As 5 - 7.	
14. Mid-Scotland 15. N.E. Scotland	As 11 - 12.	
16. Orkneys and Shetlands	As 5 - 7.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland		

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount too small to measure.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. FRIDAY. 20th. December. 1929. No. 354.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 20th. Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain 0-6
Lerwick	54	1005.9	-2	S	6	cr₀	46	83	7	1500	CuNb	6	ASt	9	
Stornoway	30	1003.8	-1	SW	5	cr₀	•	•	6	•	•	•	•	10	
Wick	81	1005.4	0	SW	2	c	43	85	8	1500	Nb	4	ASt	8	
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	
Malin Head	51	1008.4	-3	S	4	c ⊕	39	92	7	4000	StCu	2	CiSt	9	
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	
Edinburgh (Inchkeith)	100	1008.6	-5	WSW	6	c	42	75	8	4000	StCu	6	ASt	9	
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tynemouth	67	1013.7	-6	S	3	bc	34	85	6	1500	Cu	3	–	3	
Blacksod Point ...	18	1008.7	0	S	4	c	43	75	7	•	CuNb	8	–	8	
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	
Holyhead	26	1010.8	-7	S	7	cr₀	44	75	6	1500	Nb	10	–	10	
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	
Spurn Head	29	1020.3	-2	SSW	5	b	35	85	7	–	–	0	–	0	
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	
Cranwell	236	1021.1	-4	SSE	4	b	28	85	5	–	–	0	–	0	
Gorleston	14	1024.9	-5	S	5	b	41	85	7	–	–	0	–	0	
Valentia (Cahirciveen)P	30	1014.2	-2	SW	3	c	44	92	9	•	–	0	CiCu	8	
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	
Pembroke (St. Ann's H.)	150	1012.7	-5	S	6	cr	47	97	6	1500	CuNb	10	–	10	
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	
S. Farnborough ...	287	•	•	•	•	•	•	•	•	•	•	•	•	•	
London (Kew Obsy.) ...	18	•	•	•	•	•	32	•	•	•	•	•	•	•	
Croydon	244	1022.9	-6	SSE	3	b	34	75	6	–	–	0	–	0	
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	
Lympne	350	1024.7	-5	SE	4	b	34	65	6	–	–	0	–	0	
Scilly (St. Mary's) ...	163	1015.1	-3	S'W	6	ORr	47	97	7	2500	Nb	10	–	10	
Falmouth (Pendennis)	200	1017.7	-5	SW'S	7	c	46	85	7	4000	StCu	10	–	10	
Plymouth (Mt. Batten)	83	•	•	•	•	•	•	•	•	•	•	•	•	•	
Portland Bill	32	1019.8	-7	SSE	5	b	42	65	8	4000	Cu	1	–	1	
Southampton (Calshot)	10	1023.0	0	SSE	4	b	41	65	8	–	–	0	–	0	
Dungeness	20	1024.3	-5	SSE	3	b	37	75	7	–	–	0	–	0	
Guernsey (St. Peter Port)	173	1021.4	-6	SSE	3	b-	36	75	7	–	–	0	–	0	

Stations.	Observations at 7h. G.M.T. 20th. Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain 0-6
Lerwick	1002.0	-2	S'W	2	Or₀	40	92	7	1500	Nb	10	–	10	•
Stornoway	999.0	-4	S	2	bc	38	85	7	4000	Cu	3	ASt	6	1
Wick	1002.4	-5	SW	4	c	40	85	8	1500	CuNb	4	ASt	10	4
Tiree	1001.4	-4	SSW	6	c	40	85	7	2500	CuNb	9	–	9	6
Nairn	1002.8	•	–	0	c	36	85	7	1500	CuNb	8	–	8	•
Aberdeen	1004.9	-4	SSW	4	Or₀	38	92	6	1500	Nb	10	–	10	1
Malin Head	1004.1	-5	S	7	b	37	85	8	4000	StCu	1	ACu	2	4
Renfrew	1007.5	-1	SE	2	bc-	35	97	7	2500	Cu	3	–	3	•
Edinburgh (Inchkeith)	1007.3	0	WSW	3	o	38	92	8	800	St	10	–	10	1
Leuchars	1006.5	-3	SW	4	c	37	85	7	2500	StCu	6	ASt	10	•
Eskdalemuir	1009.1	0	SW'S	5	o	34	97	6	800	St	10	–	10	•
Tynemouth	1011.8	-2	S	3	O5₀	33	97	6	1500	Nb	10	–	10	2
Blacksod Point	1002.8	-5	SE	4	bc	44	65	8	•	CuNb	6	–	6	6
Donaghadee	1008.1	-1	SW	2	bc	35	92	7	4000	StCu	3	–	3	2
Birr Castle	1009.1	-3	SSW	1	bc	34	97	8	–	–	0	CiCu	7	•
Holyhead	1011.4	0	SW	3	bc-	41	85	8	2500	St	3	–	3	1
Liverpool (Bidston)	1012.8	-1	S'E	4	c	34	97	7	4000	Nb	9	–	9	•
Chester (Sealand)	1013.1	-1	SSE	4	c	34	92	6	4000	StCu	9	–	9	•
Harrogate	1013.9	-1	S	3	o	32	97		<150	St	10	–	10	•
Spurn Head	1016.3	-1	SSW	6	bc	34	92	7	5700	StCu	3	ASt	7	4
Birmingham (Edgbaston)	1015.8	-3	SSE	4	O5₀	33	92	6	1500	Nb	10	–	10	•
Cranwell	1017.1	-4	SE'S	4	bc+	28	92	5	7200	StCu	1	Ci	3	•
Gorleston	1019.5	-5	S'W	6	b+	37	75	7	–	–	0	ACu	2	1
Valentia (Cahirciveen)P	1007.9	-7	S'W	4	c	45	75	8	2500	StCu	10	–	10	5
Roches Point	1011.8	-3	W	2	c	41	92	7	1500	StCu	9	–	9	2
Pembroke (St. Ann's H.)	1012.7	-1	WSW	2	bc-	45	85	8	2500	Cu	2	CiSt	5	2
Ross-on-Wye	1015.4	-3	S	3	Od₀	36	85	6	2500	St	10	–	10	•
Leafield	1016.7	-2	S'E	4	c+	31	85	7	–	–	0	ASt	9	•
Winchester (Worthy Dn.)	1018.2	-3	S'E	2	c ⊕	32	92	6	4000	StCu	4	CiSt	9	•
S. Farnborough	1018.2	-5	SE	2	c	32	85	6	1500	StCu	8	–	8	•
London (Kew Obsy.)	1018.9	-2	SE	1	bc+	30	85	5	4000	StCu	1	CuCu	3	•
Croydon	1018.9	-3	SE	4	b	31	85	6	–	–	0	–	0	•
Shoeburyness	1020.2	-3	S	3	b	32	85	7	4000	Cu	1	–	1	3
Clacton-on-Sea	1020.8	-4	S	4	b	35	85	7	–	–	0	–	0	3
Felixstowe	1020.9	-3	S'E	3	b	35	85	7	–	–	0	–	0	•
Lympne	1020.7	-4	SSE	3	bc-	31	85	6	2500	St	7	–	7	•
Scilly (St. Mary's)	1013.9	-1	NNW	1	bc	43	92	8	4000	Cu	5	–	5	2
Falmouth (Pendennis)	1014.6	-1	NW'N	2	c-	44	92	7	4000	StCu	7	ASt	9	0
Plymouth (Mt. Batten)	1013.7	-5	S	5	Od₀	45	97	7	800	St	10	–	10	4
Portland Bill	1015.6	-5	SSE	5	c+	42	75	8	2500	StCu	7	ASt	9	4
Southampton (Calshot)	1018.5	-4	S'E	4	c ⊕	38	75	7	2500	St	3	CiSt	3	3
Dungeness	1020.3	-4	SSE	3	bc+	34	85	8	2500	Cu	3	–	3	4
Guernsey (St. Peter Port)	1017.2	-6	S	4	c	37	85	7	2500	StCu	8	–	8	•

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19th. December

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-18th. to 9h. 19th. °F.	Temperature. Max. 9h.-18th. 18th. °F.	Rainfall.† Night 18h.-9h. 18-19th. mm.	Rainfall.† Day 9h.-18h. 18th. mm.	Sunshine. Sunrise to Sunset. 18th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bcc	36	42	–	–	5.0
Douglas (I. o. M.) ...	o	o	36	45	–	–	0.0
Llandudno ...	b	b	37	46	–	–	5.9
Colwyn Bay ...	b	b	39	44	–	–	5.6
Rhyl	b	b	35	46	–	–	5.7
Wallasey	b	b	34	42	–	–	4.3
Southport	b	b	33	41	–	–	4.8
Blackpool	cb	cb	33	40	–	–	4.4
Morecambe ...	cbbc	cbcc	32	41	–	–	4.4
Ilkley	bc	bc	31	41	–	–	2.1
Cleethorpes	x+b	bx	29	40	–	–	4.8
Mablethorpe. ...	cxm₀	bcbmx	30	39	–	–	5.0
Skegness	co	ocb	34	40	–	–	5.2
Aberystwyth ...	bc	bcb	38	45	–	–	6.5
Bath	b	b	29	44	–	–	6.9
Cheltenham ...	b	b	32	41	–	–	6.5
Leamington Spa ...	b	b	29	42	–	–	5.4
Lowestoft	b	b	26	41	–	–	6.5
Harwich & Dovercourt	xbm	b	30	42	–	–	5.3
Maldon	x+b	b	29	40	–	–	5.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	b	b	39	45	–	–	6.4
Bude	xb	b	29	45	–	–	6.4
St. Ives	o	o	41	46	–	–	0.0
Penzance	c	c	44	48	–	–	0.0
Paignton	b	b	33	46	–	–	6.7
Torquay	b	b	36	47	–	–	7.2
Jersey	b	b	37	42	–	–	7.7
Weymouth	b	b	39	47	–	–	7.3
Bournemouth ...	b	b	29	46	–	–	7.3
Ventnor ...	xb3	b3	38	45	–	–	7.1
Portsmouth (S'thsea)	b	b	32	46	–	–	7.0
Bognor Regis ...	b	b	36	45	–	–	7.0
Littlehampton ...	b	b	30	44	–	–	7.4
Worthing	b	b	32	45	–	–	6.9
Brighton	b	b	32	45	–	–	6.9
Eastbourne	b	b	38	43	–	–	7.2
Hastings	b	b	39	43	0.1	–	7.2
Folkestone	xb	b	36	41	–	–	6.7
Dover	b	b	36	42	–	–	7.0
Deal	b	b	34	40	–	–	6.7
Tunbridge Wells ...	b	b	28	41	–	–	6.7
Ramsgate	b	b	35	41	–	–	6.7
Margate	bc	bc	35	42	–	–	6.6
Southend	b3	b	29	43	Trace	–	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ⊕ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24.866 SATURDAY, 21st. December 1929.

Observations at 13h. G.M.T. 20th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	999.3	-3	SSW	3	bc	41	92	8	1500	StCu	3	ACu	5	•
Stornoway	992.5	-8	S	6	c/pw	42	92	7	1500	Nb	6	ACu	8	•
Wick	993.0	-6	SW	6	bc	42	75	8	4000	StCu	2	Ci	4	•
Tiree	993.7	-11	S'W	8	c	42	75	6	2500	StCu	4	ASt	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1004.0	-4	SSW	4	bc⊕	41	75	6	2500	Cu	2	CiSt	4	2
Malin Head	994.7	-14	S	8	c	40	85	8	4000	StCu	2	ASt	9	•
Renfrew	1002.8	-8	SSE	4	c+	40	85	7	2500	Cu	2	ASt	9	2
Edinburgh (Inchkeith)	1005.0	-4	SSW	3	bc	40	85	8	800	StCu	5	Ac	7	•
Leuchars	1004.2	-5	S'E	3	bc+	39	85	7	2500	StCu	3	Ci	7	2
Eskdalemuir	1005.7	-5	SSE	4	c	34	92	6	1500	St	10	-	10	7
Tynemouth	1008.1	-5	SW	2	c/s	35	97	6	1500	St	9	-	9	•
Blacksod Point	993.3	-12	S	8	oR-	45	55	7	•	Nb	10	-	10	•
Donaghadee	1001.6	-6	SSW	2	c	42	75	8	4000	StCu	8	-	8	•
Birr Castle	999.1	-11	SE	3	cr	42	85	8	2500	Nb	9	CiSt	10	•
Holyhead	1005.5	-9	S'E	5	c/r	43	85	8	1500	St	1	CiSt	10	1
Liverpool (Bidston)	1007.3	-7	S'E	4	bc	37	92	6	2500	Nb	7	-	7	•
Chester (Sealand)	1008.3	-7	S'E	3	c+	37	92	6	800	St	10	-	10	2
Harrogate	1009.7	-5	S	2	mmo	33	92	4	150	St	10	-	10	•
Spurn Head	1012.0	-3	SW'S	3	c	35	85	6	4000	StCu	6	ASt	10	•
Birmingham (Edgbaston)	1010.5	-7	SSE	3	o/s	34	97	5	1500	Nb	10	-	10	2
Cranwell	1012.1	-7	SSE	4	c	33	85	6	2500	St	9	-	9	3
Gorleston	1016.0	-4	SSW	4	bc	37	85	6	4000	Cu	5	-	5	•
Valentia (Cahirciveen)	994.2	-19	S'E	7	cr	45	85	7	1500	Nb	7	ASt	10	2
Roches Point	1003.0	-2	W	5	c	45	85	7	1500	CuNb	9	-	9	•
Pembroke (St. Ann's H.)	1006.2	-4	S	4	c+	46	92	8	1500	StCu	10	-	10	•
Ross-on-Wye	1009.7	-7	SE	3	o/d	37	85	6	2500	St	10	-	10	2
Leafield	1011.4	-6	SSE	5	c	34	85	8	-	-	0	ASt	9	3
Winchester (Worthy Dn.)	1012.9	-7	SSE	4	c	37	75	8	5700	StCu	9	-	9	2
S. Farnborough	1013.2	-6	S	3	c	38	75	6	2500	StCu	8	-	8	3
London (Kew Obsy.)	1013.7	-8	SSE	2	c	36	75	5	2500	Cu	7	Ci	8	3
Croydon	1013.9	-7	S'W	4	bc-	38	75	6	2500	StCu	1	CiCu	3	3
Shoeburyness	1015.3	-6	S	4	b-	36	85	8	5700	Cu	1	Ci	2	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1016.8	-4	S	5	c	35	85	8	1500	StCu	8	-	8	0
Lympne	1016.0	-5	S	4	bc-	34	75	6	1500	Cu	6	Ci	7	3
Scilly (St. Mary's)	1007.1	-13	SW'S	4	C	46	85	7	4000	Cu	4	CiSt	8	•
Falmouth (Pendennis)	1009.8	-5	[illegible]	4	C	46	75	8	2500	Nb	4	ASt	10	•
Plymouth (Mt. Batten)	1008.6	-6	SW	3	C	47	85	7	4000	Nb	6	ASt	10	2
Portland Bill	1010.3	-8	SSE	6	cd	44	92	7	1500	StCu	10	-	10	•
Southampton (Calshot)	1013.5	-7	SSE	5	c	40	65	8	4000	StCu	4	ACu	8	0
Dungeness	1010.0	-5	SW	3	bc	37	75	8	2500	Cu	4	CiCu	6	•
Guernsey (St. Peter Port)	1012.4	-7	S	4	C	40	85	6	4000	StCu	10	-	10	•

Observations at 18h. G.M.T. 20th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	996.3	-3	SW	8	bc	44	65	8	1500	StCu	2	ACu	4	•
Stornoway	982.1	-13	SE	8	c	44	65	7	2500	CuNb	8	-	8	7
Wick	993.4	-7	S	9	c	41	85	8	2500	StCu	7	ASt	10	7
Tiree	978.9	-22	S	10	oh(r)	41	92	6	1500	Nb	10	-	10	8
Nairn	992.0	•	SW'S	3	bc	39	75	8	2500	Cu	6	-	6	•
Aberdeen	996.7	-9	SSE	5	c	41	75	6	1500	St	7	ASt	10	4
Malin Head	981.0	-19	S	8	cr	40	85	6	2500	Nb	4	ASt	10	6
Renfrew	994.4	-11	SE	5	c	38	85	6	2500	St	7	ASt	10	•
Edinburgh (Inchkeith)	996.6	-11	SE	4	o	38	85	8	1500	St	10	-	10	2
Leuchars	997.0	-10	SE'E	4	c	38	85	7	2500	StCu	6	ASt	10	•
Eskdalemuir	996.9	-11	SSE	5	o	33	97	6	800	St	10	-	10	•
Tynemouth	1001.8	-5	S	4	o	36	85	7	1500	Nb	10	-	10	2
Blacksod Point	982.7	-6	W	7	c/PR	43	75	6	•	CuNb	9	-	9	8
Donaghadee	990.2	-14	SSW	6	cr	42	85	7	2500	Nb	9	-	9	4
Birr Castle	988.3	-10	SSE	6	or	42	92	7	2500	St	10	-	10	•
Holyhead	996.9	-9	S'W	6	cr	44	92	6	1500	Nb	7	ASt	10	5
Liverpool (Bidston)	1000.2	-7	SSE	4	od	37	97	7	1500	Nb	10	-	10	•
Chester (Sealand)	1001.2	-8	SSE	4	od	38	97	5	450	St	10	-	10	•
Harrogate	1003.8	-7	SSE	4	o/s	33	85	5	2500	St	10	-	10	•
Spurn Head	1005.8	-3	S	6	c	35	92	7	-	-	0	ASt	8	5
Birmingham (Edgbaston)	1004.7	-6	SSE	4	o/s	36	85	8	1500	St	10	-	10	•
Cranwell	1007.0	-6	SSE	5	mmbc	31	92	4	-	-	0	ASt	4	•
Gorleston	1011.3	-5	S	7	b-	35	75	7	-	-	0	-	0	4
Valentia (Cahirciveen)	988.0	-2	SW'W	5	c/r	47	75	8	1500	St	8	ASt	10	5
Roches Point	990.2	-16	SW	8	orr	46	97	7	800	Nb	10	-	10	7
Pembroke (St. Ann's H.)	999.1	-6	S	6	orr	46	97	7	800	Nb	10	-	10	4
Ross-on-Wye	1004.1	-6	SSE	4	o	40	85	6	1500	St	10	-	10	•
Leafield	1006.6	-5	SSE	5	cr	34	75	8	-	-	0	ASt	10	•
Winchester (Worthy Dn.)	1009.0	-5	SSE	4	c	37	65	8	4000	StCu	5	ASt	10	•
S. Farnborough	1009.0	-6	SSE	4	c	36	75	6	1500	StCu	10	-	10	•
London (Kew Obsy.)	1010.0	-5	SSE	3	b-	35	75	5	-	-	0	-	0	•
Croydon	1010.1	-5	S	4	bc	34	75	6	-	-	0	ASt	3	•
Shoeburyness	1011.7	-6	S'E	5	b	33	85	8	4000	Cu	1	-	1	•
Clacton-on-Sea	1012.4	-4	SSE	6	c	36	85	7	4000	CuNb	8	-	8	4
Felixstowe	1012.5	-4	S'E	6	c	35	85	7	1500	StCu	8	-	8	3
Lympne	1012.9	-3	SSE	4	bc-	33	85	6	2500	StCu	6	-	6	•
Scilly (St. Mary's)	1000.7	-8	SSW	7	cr	46	92	7	2500	Nb	9	-	9	5
Falmouth (Pendennis)	1003.9	-4	SW'S	6	cr	46	85	7	2500	Nb	6	ASt	10	2
Plymouth (Mt. Batten)	1003.7	-6	SSW	6	or	48	85	7	2500	Nb	10	-	10	5
Portland Bill	1006.0	-8	S'E	6	crr	45	92	6	1500	StCu	10	-	10	6
Southampton (Calshot)	1010.1	-5	SSE	5	c	41	65	8	4000	StCu	3	ASt	9	3
Dungeness	1011.9	-4	S	4	bc	36	85	7	2500	StCu	6	-	6	3
Guernsey (St. Peter Port)	1009.0	-4	S	4	or+	39	92	5	1500	Nb	10	-	10	6

LOWER OBSERVATIONS.

Day 7h.-13h., Kew & Croydon. 9h.-18h., Kensington. 9h.-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning. 24 HOURS ENDED 9h.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. YESTERDAY.	Humidity. 15h. G.M.T. % TO-DAY.	Humidity. 9h. G.M.T. % TO-DAY.	Visibility.§
Kew	18	cfxcw	bejob	ocirqeq	38	34	30	-	0.5	1.9	*	*	5
Croydon	244	bexbc	bcz	bcjo	38	33	28	-	1	3.4	*	*	6
Greenwich (Royal Obsy.)	149	bex	bccx	cxoir	37	33	24	-	0.1	2.9	75	82	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	39	34	29	0.5		1.6	67	81	*
Regent's Pk. (Botanic Gdns.)	162	*	*	*	*	*	*	*	*	0.8	*	*	*
Camden Square	110	cbc	cb	*	37	33	*	-	Tr	*	*	89	*
Kensington Palace	80	bbc	bcx	*	38	34	30	-	1	*	(At 18h) 89	89	*
Hampstead Observatory	460	*	*	*	36	30	26	Tr	Tr	1.1	*	94	*

SW'S

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 21st.

South Kensington	Max.	Time.	Min.	Time.
	1.8	9h. 20th	0.3	1-6h. 21st

Kew Observatory	Max.	Time.	Min.	Time.
	0.3	9h. 20th	0.1	6h. 21st

POLE STAR RECORD at Greenwich Obsy.

Exposure from 20th 17h. 00m. to 21st 07h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	6.10	44
δ Ursae Minoris	14.0	1.30	11

CODE FOR STATE OF GROUND.

0=Dry ground. 1=Wet ground. 2=Soft (muddy) wet ground. 3=Bare ground frozen (but less than 2 ins. deep). 4=Bare ground frozen (but more than 2 ins. deep). 5=Dew (or wet grass but not wet ground). 6=Skating to-day in 13h. and 18h. reports (Hoar frost in 13h. and 7h. reports). 7=Snow (thin layer, often not continuous). 8=Snow (deep, impeding traffic, usually a continuous layer). 9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

21st. 22nd. December, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	11.51	15.58
	8.5	11.52	15.39
Greenwich	8.5	11.58	15.51
	8.6	11.58	15.51
Wick	9.5	12.10	15.16
	9.5	12.11	15.17
Valentia	8.49	12.39	16.29
	8.49	12.39	16.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skye
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.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). { before (for precipitation).
⊕ = solar halo. Ψ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
‡ "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

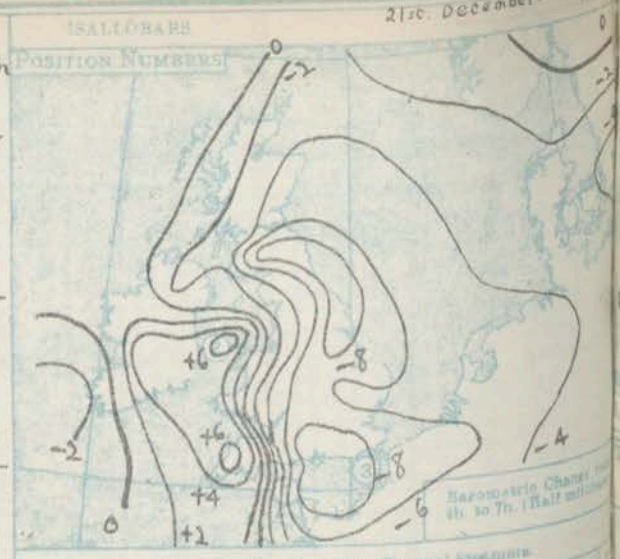
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 20th	13h.-18h. 20th	18h. 20th to 1h. 21st	1h.-7h. 21st	TEMPERATURE. MAX. Day. 7h.-13h.	MIN. Night. 18h.-7h.	MIN on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 20th Hours.
Lerwick	or₀r₀bc	bcir₀	bccoir₀r₀	or₀r₀	44	38	•	3	<8.00	11	<21.00	0.4
Stornoway	p	c	oRc	cbc	44	34	•	2	9.00	10	<21.00	0.4
Wick	b-bc	c	c	rrR	42	39	•	–	–	6	01.30	•
Tiree	c	cr	irh	R	44	35	31	3	–	4	22.00	0.0
Nairn	cbc	bcq	bcqcR	ors	40	34	•	–	–	4	<21.00	2.8
Aberdeen	oir₀cbc	bcc3₀	c3₀orrqm₀	oRRqm₀	41	38	36	Tr.	<8.00	33	<21.00	2.4
Malin Head	bbcc	cr₀	cr₀c	cr₀	42	34	•	0.6	16.30	3	<21.00	0.0
Renfrew	bcbcc	cq	qrRR	oRSs	41	32	32	–	–	26	<21.00	1.2
Edinburgh (Inchkeith)	ocbc	bcc	oir₀	orsrs	41	35	35	–	–	2	22.00	0.8
Leuchars	cbc	bcc	cr₀r₀	cr₀r₀orr	40	36	35	Tr.	16.30	4	<21.00	1.9
Eskdalemuir	obccm₀	cm₀om₀	orsrs	orsrsss	35	32	32	–	–	28	<21.00	0.0
Tynemouth	ois₀	coq	oq	oirsq	36	35	33	0.2	<8.00	5	02.30	•
Blacksod Point ...	rd	prq	pqc	pq	46	35	•	19	•	3		•
Donaghadee	bcc	cqir₀	oqrr	rrbcx	44	33	•	1	16.30	23	<21.00	•
Birr Castle	bccoc	oir₀q	oir	orcbcx	43	32	24	0.3	12.30	6	<21.00	0.0
Holyhead	bbcc	c	r₀rrq	rrRqc	45	38	38	0.5	12.30	19	<21.00	0.0
Liverpool (Bidston) ...	cm₀	om₀d₀	d₀p₀c	cor₀r	37	37	36	Tr.	16.30	3	<21.00	0.0
Chester (Sealand) ...	bccm₀	om₀d₀	d₀dm₀	rr	38	38	36	0.1	15.30	9	<21.00	0.0
Harrogate	omm	Mos₀	ois₀	oss	33	32	32	Tr.	17.30	5	<21.00	0.0
Spurn Head	bcc	c	c	cor	35	33	•	–	–	Tr	06.30	0.0
Birmingham (Edgbaston)	os₀s₀	oir₀s₀	or₀	orr	36	34	32	1	<8.00	6	<21.00	0.0
Cranwell	cis₀	omcm	bcmom₀	or₀m₀	33	31	29	Tr.	09.30	1	05.30	0.0
Gorleston	bbcq	bcq	bbcq	cq	38	34	30	–	–	–	<21.00	2.7
Valentia (Cahirciveen)	cpcr₀r₀	crrORR	cir₀c	cphbc	48	35	32	17	9.00	2	02.30	0.0
Roches Point	cp₀c	corrr	orrc	cbcb	48	36	•	6	11.00	8	<21.00	•
Pembroke (St. Ann's H.)	bcc	crrq	oiRm₀	oRrc	48	40	•	2	13.30	21	<21.00	0.0
Ross-on-Wye	od	odo	dqr₀q	rr	40	39	38	0.2	11.00	18	<21.00	0.0
Leafield	c	cr₀	o	or	34	34	33	Tr.	17.30	1	05.30	0.0
Winchester (Worthy Dn.)	cm₀c	c	cr₀c	coRR	37	36	34	–	–	6	22.00	0.2
S. Farnborough ...	cm₀	cm₀	cm₀ib	oir₀orr	38	35	33	–	–	2	24.00	0.1
London (Kew Obsy.) ...	cfxcm	bc3₀b	ocm₀	cir₀qcq	38	34	30	–	–	0.5	02.30	1.9
Croydon	bm₀xbc	bc3₀	bcc3₀2₀	c3₀r₀r₀	38	33	28	–	–	1	02.30	3.4
Shoeburyness	bbcb	b	bbc	bcc	37	32	30	–	–	–	–	4.1
Clacton-on-Sea ...	bbc	bcc	cbc	bccD	37	34	31	–	–	–	–	0.0
Felixstowe	bcc	c	c	c	37	33	32	–	–	–	–	4.4
Lympne	cm₀bc3₀	bcb3₀bcm₀	bcm₀	bccm₀	35	32	30	–	–	–	–	2.8
Scilly (St. Mary's) ...	bcc	cir	corr	orrbc	47	42	•	0.6	15.30	12	<21.00	0.0
Falmouth (Pendennis)	cbccm₀	crq	corr₀q	oRqac	47	42	•	1	14.30	18	<21.00	0.0
Plymouth (Mt. Batten)	odc	coq	or₀rr	orrRxc	49	43	41	0.1	<8.00	12	<21.00	0.0
Portland Bill	ctd₀	oid₀ir3₀	o	oirRR2₀	45	40	•	0.5	11.00	5	01.30	•
Southampton (Calshot)	c	c	cir₀c	corr₀	41	39	38	–	–	5	22.00	0.0
Dungeness	bc	bc	byb	bbcc	38	34	•	–	–	–	–	•
Guernsey	co	obrcr	opr₀o	orror	41	38	36	0.5	14.30	6	<21.00	0.0



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	20th 10h	CAMORIA	SW	4	bc D	44	51
3	21st 02h	DIEPPE	S	5	bc +	37	37

GENERAL INFERENCE.

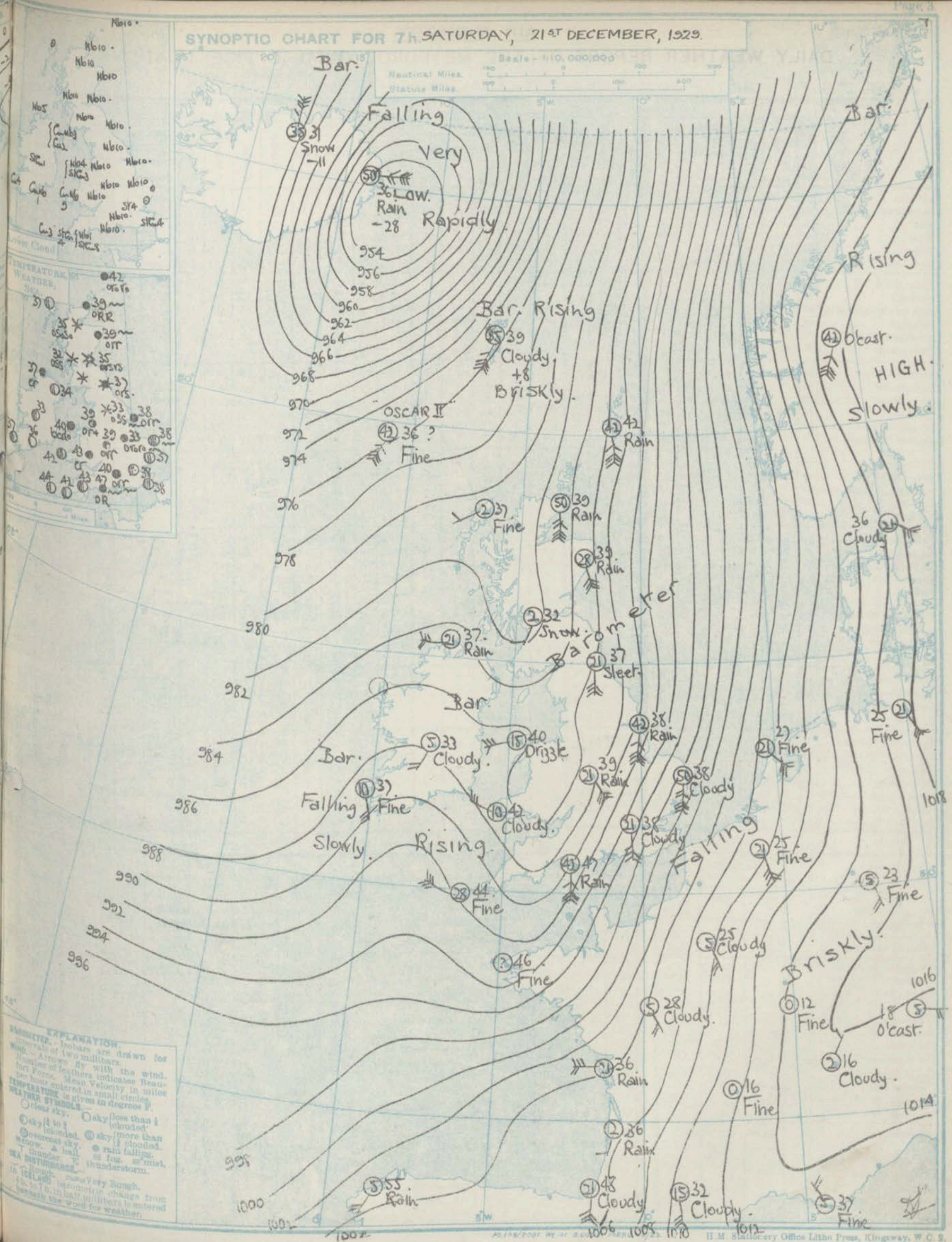
A trough of low pressure is crossing Great Britain and a new secondary off Southwest Ireland will move eastward. Weather will continue rather cold and unsettled with snow on high ground but there will be bright intervals especially in the North.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 21st. December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind south, strong to gale, becoming westerly to variable and mainly moderate; intermittent rain, with local sleet and perhaps snow tonight on high ground; local hail and thunder later; bright intervals later today and perhaps again tomorrow; cold.	Unsettled and rather cold but bright intervals; further snow on high ground.
5. S.W. England 6. South Wales	Wind variable, mainly moderate; occasional rain, sleet, or snow, bright intervals; cold.	
7. North Wales 8. N.W. England	Wind backing S., becoming W. to N.W. again later, strong at times; some rain, sleet and hail with snow on hills, local thunder; cold.	↓ South Cone still flying in districts 5, 6, 7, 8, 12, 13A, 13B., 17, 18, 19 and 20. hoisted at 15h. on 20th in districts 1, 2, 10, 11, 15 and 16.
9. N. Midlands 10. N.E. England	As 4.	
11. S.E. Scotland 12. S.W. Scotland, Isle of Man 13A. W. Scotland 13B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Wind westerly to variable, mainly moderate or light; wintry showers, bright periods; perhaps local fog; cold, sharp frost in places.	
19. S.E. Ireland 20. S.W. Ireland	As 5.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1400 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.


SYNOPTIC CHART FOR 7h. SATURDAY, 21ST DECEMBER, 1929.
Scale - 1/10,000,000
Nautical Miles.
Statute Miles.
Bar.
Falling
Very
Snow
-11
Low.
Rain
-28
Rapidly.
Bar. Rising
Cloudy,
+8
Briskly.
OSCAR II
36 ?
Fine
Fine
Rain
Rain
Rain
Snow.
Barometer
Sleet.
Bar.
Cloudy.
Drizzle
Falling
Fine
Cloudy.
Slowly.
Rising.
Fine
Rain
Cloudy
Cloudy
Falling
Fine
Fine
Fine
Cloudy
Briskly.
Fine
O'cast.
Cloudy.
Fine
Rain
Rain
Cloudy
Cloudy.
Fine
Bar.
Rising
O'cast.
HIGH.
Slowly.
Cloudy
Fine
Bar.
Rising
Falling
Briskly.
Rain
Fine
Cloudy.
Fine
Rising
Falling
Slowly.
Very Rough.
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
clear sky. sky less than ½ clouded. sky (½ to ½ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.
slight. rough. very rough.
IN ICELAND barometric change from 6 h. to 7 h. in half millibars is entered beneath the word for weather.
H.M. Stationery Office Litho Press, Kingsway, W.C. 2.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. SATURDAY. 21st. December. 1929. No. 355.

Stations	Height above M.S.L. in feet	Observations at 1h. G.M.T. 21st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 21st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	[illegible] 0-8
Lerwick	36	987.5	-6	S'E	10	0r$_o$	42	85	7	1500	Nb	10	–	10	986.0	-3	S'E	8	0r$_o$r$_o$	42	85	7	1500	Nb	10	–	10	•
Stornoway	80	980.1	+3	WSW	2	C-	•	•	6	•	•	•	•	9	980.7	0	WSW	1	bc	37	92	7	–	–	0	A St	4	1
Wick	21	983.6	-6	S	9	C	42	92	8	1500	St	10	–	10	982.7	-3	S	9	ORR	39	97	7	1500	Nb	10	–	10	7
Tiree	30	•	•	•	•	•	•	•	•	•	•	•	•	•	981.9	-1	SW'W	3	C	37	85	7	2500	Nb	4	A St	10	2
Nairn	83	•	•	•	•	•	•	•	•	•	•	•	•	•	982.4	•	–	0	OS$_o$+	35	92	6	800	Nb	10	–	10	•
Aberdeen	67	•	•	•	•	•	•	•	•	•	•	•	•	•	984.3	-4	SSE	6	Orr	39	97	6	1500	Nb	10	–	10	6
Malin Head	81	983.7	0	S	3	C	39	85	8	4000	Nb	1	A St	9	984.2	0	W	5	Cr	37	92	7	2500	Nb	5	A St	9	4
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	982.9	-3	SW	1	oss	32	97	5	800	Nb	10	–	10	•
Edinburgh (Inchkeith)	100	987.2	-7	SE	6	Or$_o$	40	85	7	1500	St	10	–	10	983.5	-5	SE	4	orsrs	35	92	7	1500	Nb	10	–	10	2
Leuchars	29	•	•	•	•	•	•	•	•	•	•	•	•	•	983.8	-4	SE	4	orr	37	85	6	800	Nb	10	–	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	981.7	-8	SSE	5	OS-	33	97	6	800	Nb	10	–	10	•
Tynemouth	87	993.6	-5	S	5	O	36	92	7	1500	Nb	10	–	10	986.6	-8	S	5	ors	37	97	6	1500	Nb	10	–	10	4
Blacksod Point	48	984.7	+2	W	4	C	37	92	7	•	CuNb	9	–	9	986.1	+1	~~SW'W~~ W'S	3	bc	38	65	8	•	CuNb	6	–	6	2
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	983.4	-1	SW	2	bc+	34	92	7	4000	CuNb	5	–	5	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	987.9	+4	SW	2	C+	33	97	8	2500	StCu	1	A St	10	•
Holyhead	26	986.5	-10	SSE	7	Crr	44	97	6	1500	Nb	8	A St	10	986.9	+9	W'S	4	bcd$_o$	40	97	7	1500	Nb	7	–	10	7
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	984.8	?	W	4	Or+	39	97	8	1500	Nb	10	–	10	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	984.8	-2	S'E	4	Orr	41	92	6	800	Nb	10	–	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	987.9	-4	SSE	4	oss	33	97	5	2500	Nb	10	–	10	•
Spurn Head	29	997.9	-3	S'W	7	C	35	85	7	5700	StCu	10	–	10	990.8	-8	S	8	Orr	38	75	6	2500	Nb	10	–	10	•
Birmingham (Edgbaston)	685	•	•	•	•	•	•	•	•	•	•	•	•	•	987.8	-7	SSE	5	Orr	39	92	7	1500	Nb	10	–	10	•
Cranwell	236	999.1	-8	SE'S	6	O	32	85	6	4000	St	10	–	10	991.9	-9	SE'S	6	Or$_o$r$_o$	33	97	6	1500	Nb	10	A St	10	6
Gorleston	14	1005.1	-5	S	8	C	37	85	6	2500	Nb	10	–	10	998.5	-6	S	9	C	38	85	6	–	–	0		4	5
Valentia (Cahirciveen) ‡	30	987.0	-4	W	5	OR	45	75	8	•	St	10	–	10	988.8	-2	S'E	3	bc	37	75	8	1500	Cu	4	–	1	5
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	990.7	+4	NW	3	b	36	97	8	1500	CuNb	1	–	9	3
Pembroke (St. Ann's H.)	150	984.2	-4	S	8	ORR	47	97	6	1500	Nb	10	–	10	987.0	+4	WNW	3	Cir	42	92	8	2500	CuNb	9	–	10	•
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	987.1	-5	S'E	4	or-	43	92	6	1500	Nb	10	–	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	989.0	-7	SSE	6	or+	39	97	6	800	Nb	10	–	10	•
Winchester (Worthy Dn.)	273	•	•	•	•	•	•	•	•	•	•	•	•	•	992.4	-8	SSE	6	ORR	42	97	6	800	Nb	10	–	10	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	993.5	-8	SSE	4	Orr	40	92	6	450	Nb	10	–	10	•
London (Kew Obsy.)	18	•	•	•	•	•	37	•	•	•	•	•	•	•	994.8	-7	SSE	5	C/r	38	75	7	2500	St	4	A St	10	•
Croydon	244	1003.1	-8	SSE	4	C+	35	85	6	1500	St	4	A St	10	995.8	-8	S'E	5	Cr$_o$r$_o$	37	75	6	1500	Nb	5	A St	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	997.4	-7	SE	5	C+	37	75	8	4000	StCu	6	A Cu	8	5
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	999.0	-5	SSE	7	C	37	75	7	–	–	0	A St	8	7
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	999.1	-7	SSE	7	CU	37	85	7	–	–	0	Cc St	9	•
Lympne	350	1005.7	-7	SSE	4	bc	33	85	6	2500	St	7	–	7	998.9	-7	SE'S	5	C	34	75	6	–	–	0	A St	10	5
Scilly (St. Mary's)	163	985.4	-12	SSW	8	ORR	49	97	6	2500	Nb	10	–	10	991.2	+3	NW'W	6	bc	44	65	8	4000	Cu	3	–	3	2
Falmouth (Pendennis)	200	990.8	-13	S'W	9	Orr	48	92	6	2500	Nb	10	–	10	992.0	+4	W'N	3	bc-	42	85	7	4000	StCu	4	A Cu	6	5
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	990.6	+8	WNW	3	C	43	85	7	4000	StCu	9	–	9	7
Portland Bill	32	996.9	-9	S'E	8	C	44	92	7	1500	StCu	10	–	10	988.0	-6	S	8	oR-	47	92	6	800	Nb	10	–	10	6
Southampton (Calshot)	10	1000.7	-1	SSE	6	C	42	75	8	1500	St	3	A St	9	992.0	+9	SSE	7	Orr	43	97	6	1500	Nb	10	–	10	4
Dungeness	20	1005.7	-6	SSE	4	b	37	85	7	–	–	0	–	0	997.8	-9	S	5	C+	38	75	7	4000	StCu	4	A St	10	6
Guernsey (St. Peter Port)	173	999.8	-9	S	5	C	41	97	5	2500	StCu	10	–	10	999.2	-7	S	5	Orr	44	97	5	1500	Nb	10	–		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 20th. December.

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-19th. to 9h.-20th. °F.	Temperature. Max. 9h.-17th. 20th. °F.	Rainfall† Night 17h.-9h. 19th.-20th. mm.	Rainfall† Day 9h.-17h. 20th. mm.	Sunshine. Sunrise to Sunset. 19th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	o	35	38	2	–	0.0
Douglas (I. o. M.)	c	cq	37	44	3	–	0.0
Llandudno	o	o	37	44	0.3	–	0.0
Colwyn Bay	c	c	37	42	1	–	0.0
Rhyl	bcc	c	35	40	1	–	0.0
Wallasey	co	o	34	38	0.3	–	0.0
Southport	bcbc	bcco	*33	37	1	–	0.0
Blackpool	osr	co	33	36	1	–	0.0
Morecambe	ssc	c	31	37	1	–	0.0
Ilkley	c	cd$_o$o	33	37	1	0.1	0.0
Cleethorpes	bco	o	30	35	–	–	0.3
Mablethorpe. cbcxm, bbcxm,	cbcx	bbcxm	31	35	–	–	1.0
Skegness	bco	oc	32	35	–	–	1.0
Aberystwyth	bcr	qc	37	44	2	–	0.0
Bath	c$_o$c	cr$_o$	31	41	1	1	0.0
Cheltenham	o	o	34	40	–	–	0.0
Leamington Spa	os	o	30	37	0.2	0.2	0.0
Lowestoft	b	bcicc	35	37	–	–	4.0
Harwich & Dovercourt	bc	bc	32	36	–	–	3.7
Maldon	xbcb	bc	30	35	–	–	4.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	odo	o	40	45	2	0.1	0.0
Bude	ocpr$_o$	cprr	40	45	–	04	0.0
St. Ives	om	om	41	47	6	Trace	0.3
Penzance	c	cr$_o$	43	48	5	0.5	0.0
Paignton	odedd	od	40	46	1	2	0.0
Torquay	oddpod$_o$	oddirq	42	47	0.3	0.5	1.0
Jersey	bcc	c	34	38	–	–	0.0
Weymouth	cod$_o$	or$_o$	39	44	–	0.2	0.0
Bournemouth	o	o	37	42	–	–	0.0
Ventnor	bcc	c	35	41	–	–	1.6
Portsmouth (S'thsea)	bbc	c	37	41	–	–	1.1
Bognor Regis	bcb	bbcbc	38	40	–	–	3.1
Littlehampton	bc	bc	37	40	–	–	2.7
Worthing	cbc	bbc	37	41	–	–	3.0
Brighton	bc	bc	37	40	–	–	4.3
Eastbourne	bcb	b	35	41	–	–	4.5
Hastings‡	bccb	cbobbc	34	39	–	–	2.7
Folkestone	xcbc	bcc	32	37	–	–	1.4
Dover	bcc	cbcc	33	37	–	–	1.6
Deal	occ	bcc	31	35	–	–	4.5
Tunbridge Wells	bcb	bcb	29	38	–	–	1.2
Ramsgate	bc	bcc	31	36	–	–	2.7
Margate	bc	bc	31	35	–	–	4.4
Southend	b	b	32	38	–	–	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 26/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

‡ The observations at 1h. G.M.T., from an auxiliary station.

† For code see page 1.

‡ See footnote page 1.

§ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. & 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,867 Sunday 22nd December 1929.

Observations at 18h. G.M.T. 21st

Stations. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	985.4	-2	S'E	9	orr	42	85	7	1500	Nb.	10	-	10	•
Stornoway	982.3	+2	WSW	1	bc	38	85	7	4000	St.	4	Ci.St.	7	•
Wick	983.5	+2	WNW	4	c4	33	97	6	1500	Cu.Nb.	6	A.Cu.	10	•
Tiree	983.7	+2	SW'W	6	bc/p	39	75	8	1500	Cu.Nb.	5	-	5	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	984.3	0	S	2	o/r	39	92	5	1500	Nb.	10	-	10	2
Malin Head	985.7	+1	S	4	8	36	85	8	4000	Cu.	2	A.Cu.	2	•
Renfrew	987.8	+4	SW	3	c	38	85	5	7000	St.Cu.	4	A.Cu.	9	7
Edinburgh (Inchkeith)	985.3	+3	W	3	c	37	85	7	800	St.	6	A.St.	9	•
Leuchars	984.4	+4	W	3	c-	36	92	6	4000	St.Cu.	5	A.St.	9	2
Eskdalemuir	987.4	+3	SW	2	c-	34	85	7	2500	St.Cu.	9	-	9	7
Tynemouth	988.8	+2	SW	2	c/p	36	97	6	1500	Nb.	10	-	10	•
Blacksod Point	984.3	-1	ESE	4	bc/(r)	39	85	8	*	Cu.Nb.	7	-	7	•
Donaghadee	986.9	+3	SW	2	bc	36	85	7	-	-	0	Ci.St.	5	•
Birr Castle	987.4	0	S	1	8	38	75	8	-	-	0	Ci.St.	1	•
Holyhead	989.9	+1	SW	2	bc	44	75	8	2500	Cu.	6	A.Cu.	6	2
Liverpool (Bidston)	989.1	+2	W'S	3	bc-	40	85	8	2500	St.Cu.	5	-	5	•
Chester (Sealand)	989.3	+1	WSW	2	bc-	44	65	7	1500	Cu.	5	-	5	2
Harrogate	989.5	+1	S	1	fc	36	97	2	150	St.	6	Ci.St.	9	•
Spurn Head	990.3	0	SW	7	or/r	36	97	6	4000	Nb.	10	-	10	•
Birmingham (Edgbaston)	990.8	+2	SW	2	bc-	41	85	6	2500	Cu.	2	Ci.	3	2
Cranwell	991.2	+1	SSE	4	o/8	35	97	6	800	Nb.	10	-	10	7
Gorleston	995.2	-3	S	8	c	41	85	6	1500	Nb.	10	-	10	•
Valentia (Cahirciveen)	983.1	-9	S'E	4	c/p	42	75	8	2500	St.	7	A.St.	10	2
Roches Point	989.1	-3	W	3	bc	42	85	8	1500	Cu.Nb.	6	-	6	•
Pembroke (St. Ann's H.)	990.0	-1	W	3	bc-	43	65	8	4000	Cu.	4	-	4	•
Ross-on-Wye	990.9	+1	SSW	2	bc	45	65	8	4000	Cu.	2	Ci.St.	3	2
Leafield	991.1	+1	SW	1	c⊕	40	97	6	450	St.	1	Ci.St.	8	2
Winchester (Worthy Dn.)	992.1	0	SW	2	c	41	92	8	4000	St.Cu.	3	A.St.	8	2
S. Farnborough	991.9	-1	WSW	3	c-	42	97	7	800	St.	8	-	8	2
London (Kew Obsy.)	992.3	-2	SSE	4	or-	40	92	5	1500	Nb.	10	-	10	2
Croydon	993.1	-2	S	4	c/d	39	92	6	800	Nb.	9	A.St.	10	2
Shoeburyness	994.3	-5	SE	6	or	37	97	7	2500	Nb.	5	A.Cu.	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	996.0	-2	SSE	6	c/r	39	85	7	1500	Nb.	8	A.St.	10	1
Lympne	995.5	-4	SE	5	orr	35	97	5	800	Nb.	10	-	10	2
Scilly (St. Mary's)	991.7	-3	SW	3	bc	46	55	8	4000	Cu.	3	-	3	•
Falmouth (Pendennis)	992.2	+3	W'S	2	8-	45	55	8	4000	Cu.	2	-	2	•
Plymouth (Mt. Batten)	991.5	-1	NNW	3	8	45	65	9	4000	Cu.	1	-	1	2
Portland Bill	991.4	+2	WNW	4	bc-	46	65	8	2500	St.Cu.	4	A.Cu.	5	•
Southampton (Calshot)	992.6	+1	W	2	bc-	43	92	7	4000	St.Cu.	4	Ci.St.	7	2
Dungeness	994.1	-6	S	6	orr	40	92	6	2500	Nb.	10	-	10	•
Guernsey (St. Peter Port)	993.4	-1	NW	1	bc-	48	65	7	2500	St.Cu.	6	-	6	•

Observations at 18h. G.M.T. 21st

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	987.2	+2	S'E	8	orr	43	85	7	1500	Nb.	10	-	10	•
Stornoway	985.0	+2	S	4	bc-	37	85	6	4000	Cu.Nb.	5	-	5	2
Wick	987.2	+4	W	2	bc	34	97	8	1500	Nb.	5	A.St.	7	2
Tiree	985.7	+2	S'W	5	bc	37	75	8	1500	St.Cu.	3	-	3	5
Nairn	987.7	*	-	0	bc	39	85	8	2500	Cu.	4	-	4	•
Aberdeen	989.6	+6	SW	1	c-	36	92	6	-	-	0	A.Cu.	8	4
Malin Head	985.4	-1	SSE	4	8	34	85	8	5700	St.Cu.	2	-	2	4
Renfrew	991.3	+3	E	1	8	29	97	6	-	-	0	-	0	•
Edinburgh (Inchkeith)	989.9	+5	W	2	bc	36	85	7	1500	St.	3	-	3	0
Leuchars	990.2	+5	W	2	8	30	92	6	-	-	0	-	0	•
Eskdalemuir	991.5	+3	W'N	1	c	30	97	6	1500	St.Cu.	8	-	8	•
Tynemouth	991.7	+4	SW	2	bc/m	35	97	5	1500	Cu.	5	-	5	2
Blacksod Point	980.4	-2	S	5	or+	39	85	7	•	Nb.	10	-	10	7
Donaghadee	988.3	+1	SW	1	8	34	92	7	-	-	0	-	0	0
Birr Castle	989.9	-3	SSE	4	c	39	75	8	2500	St.	9	-	9	•
Holyhead	990.5	+1	SE'S	4	bc	39	92	6	1500	Cu.	3	-	3	2
Liverpool (Bidston)	990.7	+1	SE'S	3	8	37	85	6	-	-	0	-	0	•
Chester (Sealand)	990.7	+1	S'E	2	nb	32	85	4	-	-	0	-	0	•
Harrogate	992.2	+1	-	0	ff8	31	97	2	<150	St	2	-	2	•
Spurn Head	991.8	0	SSW	4	0	37	97	6	2500	St.	10	-	10	5
Birmingham (Edgbaston)	991.7	+1	-	0	ff8	35	92	3	-	-	0	-	0	•
Cranwell	992.3	+1	SE'S	3	ff0	34	97	3	220	St.	10	-	10	•
Gorleston	994.5	-1	S	8	or+	39	92	6	800	Nb.	10	-	10	6
Valentia (Cahirciveen)	980.8	+1	W	3	o/8	40	85	7	1500	Nb.	10	-	10	4
Roches Point	983.4	-4	SW	5	c	46	75	8	1500	Cu.Nb.	9	-	9	6
Pembroke (St. Ann's H.)	989.4	0	SSW	2	bc	44	75	8	4000	Cu.	4	-	4	3
Ross-on-Wye	991.5	+1	S	1	f8	35	92	2	-	-	0	-	0	•
Leafield	991.6	0	-	0	bc	37	97	6	-	-	0	Ci.St.	3	•
Winchester (Worthy Dn.)	992.5	+1	-	0	bc	36	97	8	2500	St.Cu.	3	A.St.	6	•
S. Farnborough	992.0	0	-	0	mnc	38	97	4	1500	St.Cu.	10	-	10	•
London (Kew Obsy.)	992.1	0	S'W	1	c	40	92	5	1500	Nb.	4	A.St.	10	•
Croydon	992.6	0	S'W	2	c	40	97	5	800	St.	6	A.St.	9	•
Shoeburyness	993.1	-2	SE	6	c/o	37	97	7	2500	Nb.	5	A.St.	10	•
Clacton-on-Sea	993.7	-1	SSE	6	orr	37	97	6	800	St.	10	-	10	5
Felixstowe	994.7	-1	SSE	6	orr	37	97	5	220	Nb.	10	-	10	6
Lympne	993.6	-1	SE'S	4	o/o	37	97	5	800	Nb.	10	-	10	•
Scilly (St. Mary's)	988.8	-3	S'W	5	bc	42	75	8	4000	Cu.	5	-	5	5
Falmouth (Pendennis)	991.4	-1	SSW	3	bc+	43	75	8	4000	Cu.	3	-	3	0
Plymouth (Mt. Batten)	991.6	0	ESE	2	8+	38	85	7	4000	St.Cu.	1	-	1	2
Portland Bill	991.1	0	W	3	bc	44	65	8	2500	St.Cu.	4	A.Cu.	5	4
Southampton (Calshot)	992.0	0	E'N	2	c+	42	92	6	4000	St.Cu.	4	Ci.St.	8	1
Dungeness	992.7	-2	S	6	orr	40	97	7	1500	Nb.	10	-	10	5
Guernsey (St. Peter Port)	992.0	-2	-	0	bc/f	37	97	5	2500	Cu.	4	-	4	4

LONDON OBSERVATIONS.

Day 7h.-18h., Kew & Croydon. 9h.-15h., Kensington. 9h.-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	orrm	orm	cnr	41	37	30	6	0.6	0.0	*	*	3
Croydon	244	ORrr	ocdl	cor	40	36	35	15	1	0.0	*	*	6
Greenwich (Royal Obsy.)	142	or	cid	cr	39	35	31	4	4	0.0	93	95	5
City (Bunhill Row)	39	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Pk.)	27	*	*	*	42	36	35	7		0.0	91	92	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	or	oro	*	39	36	*	7	-		*	97	*
Kensington Palace	80	odr	odr	*	41	36	35	5	3	*	(At 18h.) 95	95	*
Hampstead Observatory	460	*	*	*							*		*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 22nd

South Kensington Max.	Time.	Min.	Time.
1.3	19th 21st	<0.3	2.6th 22nd

Kew Observatory Max.	Time.	Min.	Time.
0.7	21st 18h.	<0.1	22nd 3-4h.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 21st 17h. 00m. to 22nd 7h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 00	nil	nil
δ Ursae Minoris	14 00	nil	nil

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep).
4 = Bare ground frozen (but more than 2 ins. deep).
5 = Dew (or wet grass but not wet ground).
6 = Skating to-day in 15h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7 = Snow (thin layer, often not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer).
9 = Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

21st–31st December, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	11.52	15.38
	8.6	11.52	15.39
Greenwich	8.6	11.58	15.51
	8.6	11.55	15.52
Wick	9.5	12.11	15.1
	9.5	12.11	15.1
Valentia	8.49	12.35	16.30
	8.50	12.40	16.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_o = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☿ = lunar halo.

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

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

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0 = no swell } Calm or slight sea.
1 = mod. swell
2 = heavy swell
3 = no swell } Moderate sea.
4 = mod. swell
5 = heavy swell
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

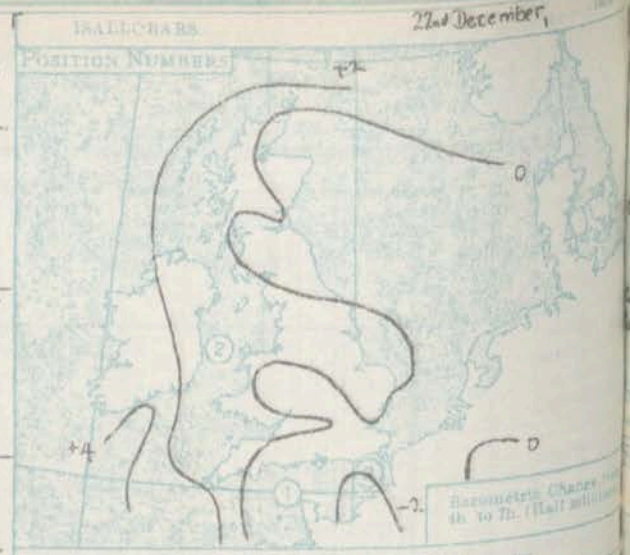
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	5½ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 21st	Weather. 18h.-18h. 21st	Weather. 18h. 21st to 18h. 22nd	Weather. 18h.-7h. 22nd	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm	Rainfall† Day. began.	Rainfall† Night. 18h.-7h. mm	Rainfall† Night. began.	Sun 21st Hours
Lerwick	orrf	orrf	oirc	oir	43	40	•	17	<8.00	12	<21.00	0.0
Stornoway	c	c	b-bc	c	44	36	•	-	-	-	-	0.7
Wick	oRrsmf	oirc	b-bc	c	39	34	•	7	<8.00	-	-	•
Tiree	cbcjb	bbc	bc	c	41	37	32	-	-	-	-	2.6
Nairn	ascbs	bax	bcx	xc	35	22	•	4	<8.00	-	-	0.2
Aberdeen	RRrrgm	agirm	bcbm	bcmrhc	40	29	22	21	<8.00	1	05.30	0.0
Malin Head	cs bc	bbc	bcc	cir	37	34	•	Tr	<8.00	2	03.30	4.4
Renfrew	ossrm	cbcb	bxm	bxm	36	16	10	3	<8.00	-	-	0.6
Edinburgh (Inchkeith)	orsrsc	cbc	bcb	bbcco	39	32	21	2	<8.00	-	-	0.7
Leuchars	orrcir	cbcbx	bxm	bxcxm	38	25	15	2	<8.00	Tr	-	0.5
Eskdalemuir	osorgc	cbcm	cm bx	bxcmx	36	22	19	1	<8.00	-	-	1.5
Tynemouth	oirs	obcmm	bcoFF	off	38	28	27	1	<8.00	-	-	•
Blacksod Point ...	rsg	ro	pbc	sbc	41	33	•	2	•	12	•	•
Donaghadee	bc	bcb	b bc	bcq	39	34	•	-	-	-	-	•
Birr Castle	cbcb	bc	coiR	oiRbx	39	32	25	-	-	9	<21.00	4.0
Holyhead	rcbcu	bc	bcmb	bx	45	35	28	03	<8.00	-	-	4.4
Liverpool (Bidston) ...	orrc	bcbm	mbb	offex	41	31	30	1	<8.00	0.1	-	2.5
Chester (Sealand) ...	Rrembc	bcvbz	bmfx	bxf-oFF	45	26	19	1	<8.00	-	-	3.8
Harrogate	ossocf	cbff	oFF	offS.S.	36	29	26	3	<8.00	1	03.30	0.0
Spurn Head	orr	orco	od	odorr	38	35	•	10	<8.00	4	24.00	0.0
Birmingham (Edgbaston)	orc	bcbm	bfx	bcfS.S.	42	29	22	4	<8.00	0.2	04.30	1.5
Cranwell	orhors	rsof	ofFe	oFesm	36	32	32	7	<8.00	3	01.30	0.0
Gorleston	cqu	cwor	orrq	orrq	41	36	35	2	14.30	12	21.00	0.0
Valentia (Cahirciveen)	bcpgphcphcirs		cirscb	bbcphb	43	37	31	7	9.00	1	<21.00	0.3
Roches Point	bbc	bcc	cphcirc	cbcbx	46	34	•	-	-	8	~~24.00~~ <21.00	•
Pembroke (St. Ann's H.)	cprhbc	bc	bcq	bcc	44	43	•	1	<8.00	-		6.1
Ross-on-Wye	mrcbc	bbcmb	bfx FF	FFX	45	28	22	1	<8.00	-	-	3.5
Leafield	orc	bcb	bffbc	ffoRd	42	30	22	4	<8.00	6	04.30	1.5
Winchester (Worthy Dn.)	oRrmc	cbc	bcmom	bcmcff	45	32	26	9	<8.00	-	-	1.5
S. Farnborough ...	orrm	cbcam	cmfbod	oidm	42	34	27	12	<8.00	1	24.00	0.6
London (Kew Obsy.) ...	orrm	orm	cmr	cmr	41	37	30	6	<8.00	0.6	01.30	0.0
Croydon	oRsSrr	ocdcdd	corr	orr	40	36	35	15	<8.00	1	24.00	0.0
Shoeburyness	bcer	crcir	crcr	crq	37	35	35	4	11.00	5	21.00	0.0
Clacton-on-Sea ...	cd	cdorr	orr	orrcdd	38	35	34	5	12.30	8	21.00	0.0
Felixstowe	cprrrr	crrrm	orrm	orrm	40	36	35	7	11.00	11	21.00	0.0
Lympne	cdorrm	orrr	orrrm	orrm	37	36	36	12	9.00	11	21.00	0.0
Scilly (St. Mary's) ...	bc	bcpbc	bcpcr	orrcp	46	39	•	0.5	15.30	7	<21.00	3.6
Falmouth (Pendennis)	bc	b-bc	bcq	bccr	(48)	37	•	-	-	2	03.30	6.6
Plymouth (Mt. Batten)	corbv	bv	bx	xc	48	35	29	Tr	<8.00	-	-	6.2
Portland Bill	orcbc	bc	bcc	cipc	48	37	•	1	<8.00	0.6	02.30	•
Southampton (Calshot)	orrmc	b-bc	bcmof	oif	46	35	34	6	<8.00	Tr	-	1.3
Dungeness	crorr	orr	oRrcrr	ort	41	35	•	16	<8.00	11	<21.00	•
Guernsey	ocbc	rcfbc						2	<8.00			



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea

GENERAL INFERENCE

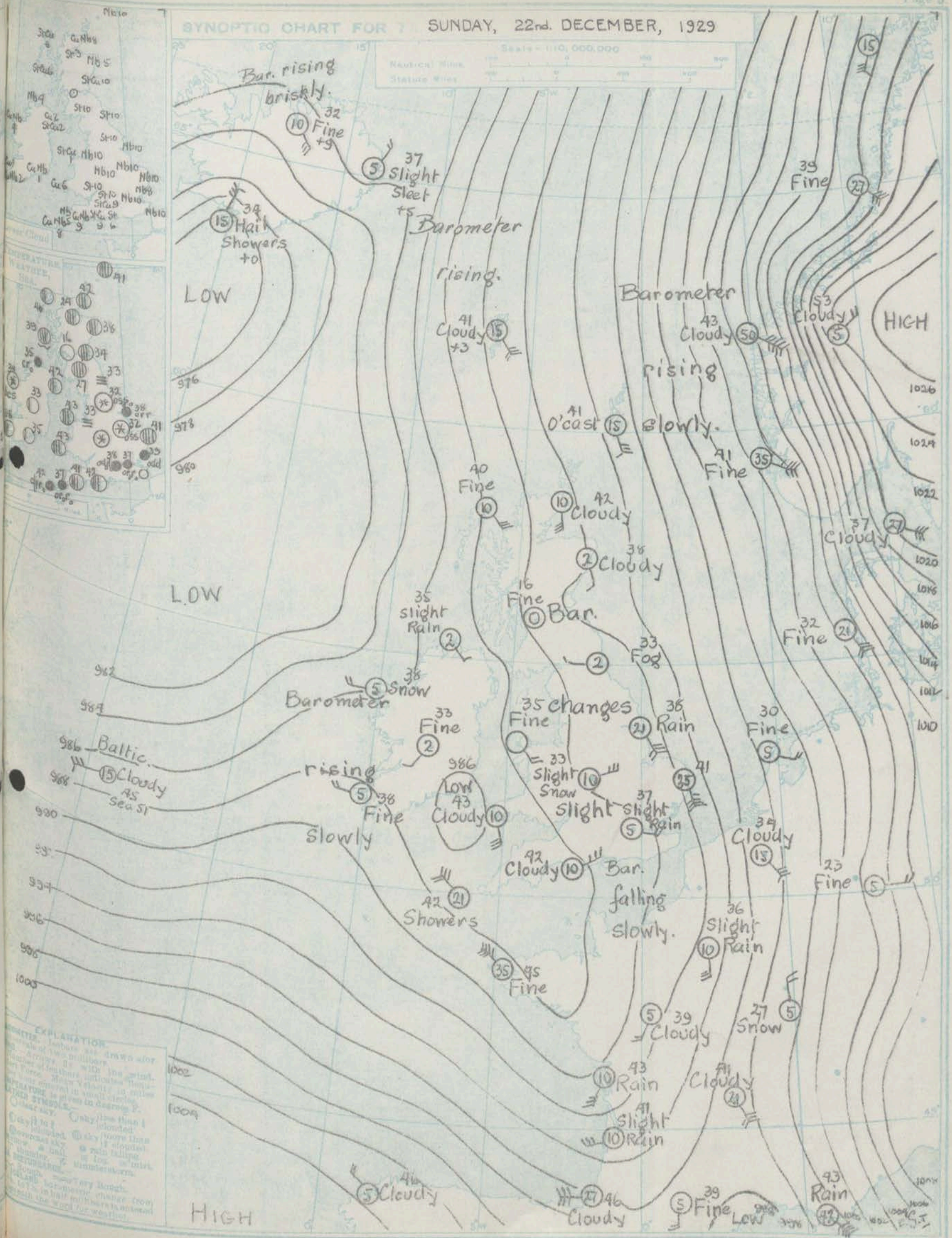
Pressure is high to the east and low to the west and south of the British Isles. Cold changeable weather will prevail with further rain, sleet or snow in eastern districts, but bright periods will predominate in western districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 22nd December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southeast, moderate to fresh on coast; dull, rain or sleet at times with snow in places; local fog at first; probably improving tomorrow; rather cold; local frost at night	Continuing cold and rather unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind variable, light; cloudy and bright periods; local wintry showers; local fog inland; cold; sharp frost at night.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind variable to southeast, light; cloudy; brighter intervals; probably some snow later especially on high ground; cold; local night frost.	
12. S.W. Scotland & Isle of Man 13 A. W. Scotland B. N.W. Scotland	As 4 - 8.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	As 9 - 11.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind variable to west, light; bright periods; local wintry showers; perhaps deteriorating tomorrow; cold, sharp frost inland at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1325 G.M.T. C. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1

Trace = rain was taken, but amount less than 0.1 mm.


SYNOPTIC CHART FOR SUNDAY, 22nd. DECEMBER, 1929
Bar. rising briskly.
Fine
Slight Sleet
Hail Showers
LOW
Barometer rising.
Barometer rising slowly.
HIGH
Cloudy
Fine
Slight Rain
Bar.
Fog
Snow
Baltic.
Cloudy
Sea 51
Low
Showers
Bar. falling slowly.
changes
Rain
Slight Snow
Slight Rain
Slowly
LOW
HIGH
1026
1024
1022
1020
1018
1016
1014
1012
1010
1008
1006
1004
1002
1000
998
996
994
992
990
988
986
984
982
980
978
976

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 22nd December 1929. No. 356

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 22nd: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 22nd: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-9
Lerwick	34	992.7	+6	NS	3	cjp	41	85	8	1500	CuNb	4	A.St	9	995.0	+3	SSE	4	o/r	41	85	7	1500	Nb	10	-	10	•
Stornoway ...	80	988.4	+1	S	5	c+	•	•	7	•	•	•	•	8	988.0	+1	SE	3	bc	40	65	7	4000	StCu	6	-	6	2
Wick	81	990.9	+1	SSE	4	bc	41	75	8	4000	StCu	2	CiSt	3	991.0	-1	SSE	3	cjp	42	85	8	1500	CuNb	8	ASt	10	5
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	986.4	0	SSE	6	c	39	75	7	2500	StCu	6	ACu	8	6
Nairn	38	•	•	•	•	•	•	•	•	•	•	•	•	•	990.2	•	-	0	c+	24	75	7	1500	St	3	ASt	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	-1	S	1	c/s(h)	38	92	7	1500	Nb	5	ASt	10	1
Malin Head	81	984.1	-1	SE	5	c	39	85	7	2500	StCu	8	A.Cu	9	987.4	+2	SE	1	cr₀	35	97	7	2500	Nb	4	ASt	9	2
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	992.0	-1	-	0	b	16	97	5	-	-	0	-	0	•
Edinburgh (Inchkeith)	100	991.7	0	SSE	1	b	32	92	8	1500	St	1	-	1	991.4	0	SW	2	c	34	92	7	-	-	0	ASt	10	0
Lenchars	90	•	•	•	•	•	•	•	•	•	•	•	•	•	991.1	-1	-	0	c	31	97	5	2500	StCu	10	-	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	-1	-	0	o	27	97	6	800	St	10	-	10	•
Tynemouth	67	991.0	-1	SW	1	Fo-	29	97	1	800	St	10	-	10	990.9	-1	W	1	50-	33	92	4	800	St	10	-	10	1
Blacksod Point ...	18	989.7	+2	S	1	bc	38	85	8	•	CuNb	4	-	4	986.0	+3	W	2	bc	37	75	8	•	CuNb	4	-	4	5
Donaghadee	46	•	•	•	•	•	•	•	•	•	•	•	•	•	987.8	0	SW	6	bc	42	65	7	4000	Cu	4	-	2	5
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	987.8	+3	SW	1	b	33	97	8	-	-	0	CiCu	1	•
Holyhead	26	989.8	-1	SE'E	4	bo	38	75	7	4000	StCu	1	CiSt	1	989.3	0	SE	2	b	35	92	8	4000	StCu	1	CiSt	0	0
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	989.2	0	SE'S	3	ffo	33	97	3	1500	Nb	10	-	10	•
Chester (Sealand) ...	14	•	•	•	•	•	•	•	•	•	•	•	•	•	989.6	0	SSE	2	ffo	32	97	2	450	St	10	-	10	•
Harrogate	678	•	•	•	•	•	•	•	•	•	•	•	•	•	991.1	0	-	0	os₀s₀	32	97	1	<150	St	10	-	10	•
Spurn Head	29	991.3	0	SSW	3	od₀d₀	37	97	6	2500	Nb	10	-	10	990.3	0	S'E	5	orr	38	97	6	2500	Nb	10	-	10	5
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	990.2	-1	ENE	2	os₀s₀	33	97	1	800	Nb	10	-	10	•
Cranwell	236	990.9	-1	E'S	2	Fo+	33	97	1	<150	St	10	-	10	990.6	0	SE	3	oss	32	97	4	800	Nb	10	-	10	•
Gorleston	14	993.4	-1	S	6	orr	39	97	6	800	Nb	10	-	10	992.1	0	SSE	7	o	41	75	6	1500	Nb	10	-	3	4
Valentia (Cahirciveen)‡	30	984.0	+3	WSW	3	bc/pg	40	92	8	•	St	7	-	7	988.9	+3	W'N	2	bc	38	85	8	4000	CuNb	3	-	1	2
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	989.0	+4	NW	2	b	35	92	8	1500	CuNb	1	-	10	3
Pembroke (St. Ann's H.)	150	986.4	-2	SE	4	bc	43	92	8	4000	Cu	4	-	4	986.1	0	S	3	c+	43	97	7	4000	Cu	6	ACu	10	•
Ross-on-Wye	238	•	•	•	•	•	•	•	•	•	•	•	•	•	989.6	-1	NNE	1	FFo	32	97	1	<150	St	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	988.9	0	NNW	1	odd	32	97	2	<150	St	10	-	9	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	989.3	-1	NNE	2	ffc	36	97	3	2500	StCu	9	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	989.1	0	-	0	od₀d₀	38	97	6	450	Nb	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	40	•	•	•	•	•	•	•	989.5	0	E'S	2	o₀r₀	37	97	6	1500	Nb	10	-	10	•
Croydon	244	990.4	-3	SSE	4	or₀r₀	39	97	6	800	Nb	10	-	10	989.8	0	SSE	3	or₀r₀	37	92	6	800	Nb	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	990.6	-1	SSE	6	or₀	37	97	7	1500	Nb	10	-	8	5
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	991.1	0	SSE	6	odd	39	97	6	4000	Nb	8	-	10	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	992.2	-1	S'E	6	or₀r₀	38	97	6	450	Nb	10	-	10	•
Lympne	350	991.4	-2	SE'S	4	or₀r₀	37	92	5	800	Nb	10	-	10	990.3	-1	SE	4	or₀r₀	37	92	5	800	Nb	10	-	8	5
Scilly (St. Mary's) ...	103	984.7	-3	SSW	5	orr	41	85	7	2500	Nb	10	-	10	987.0	+2	NW'N	5	c/pr₀	42	85	8	4000	CuNb	8	-	10	0
Falmouth (Pendennis)	200	987.2	-3	SE'S	5	bc+	44	75	7	4000	Cu	4	-	4	987.7	+2	NNW	2	cr₀r₀	37	97	6	2500	Nb	5	ASt	9	2
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	987.2	0	SW	3	c+	41	75	7	4000	CuNb	3	-	10	4
Portland Bill	32	987.6	-3	ENE	3	c+	44	85	7	2500	StCu	9	A.St	10	987.5	-1	ENE	3	c	42	92	7	2500	StCu	9	ASt	9	0
Southampton (Calshot)	10	989.5	-3	N'W	2	o/f	37	92	5	800	St	10	-	10	988.6	-1	NNW	2	ifc	37	97	2	450	St	6	ACu	10	
Dungeness	20	990.8	-3	SE	4	crr	40	85	7	1500	CuNb	10	-	10	989.9	-2	SSE	4	cr₀r₀	40	97	7	1500	Nb	7	ASt	4	4
Guernsey (St. Peter Port)	172	989.0	-3	-	0	bc	42	85	8	4000	StCu	6	-	6	988.8	+2	SSE	1	bc	41	92	7	4000	StCu	4	-		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21st December

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-20th. to 9h.-21st. °F.	Temperature. Max. 9h.-17h. 21st. °F.	Rainfall.† Night 17h.-9h. 20th.-21st. mm.	Rainfall.† Day 9h.-17h. 21st. mm.	Sunshine. Sunrise to Sunset. 21st. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	obcb	34	39	5	-	0.6
Douglas (I. o. M.) ...	bc	bc	34	41	34	-	5.4
Llandudno ...	rcbcc	cbcb	38	44	20	0.3	2.8
Colwyn Bay ...	ocbc	b	37	44	12	-	3.4
Rhyl	c	b	35	44	7	-	4.1
Wallasey	dcb	b	35	43	6	Trace	2.3
Southport	rcc	bc	37	42	3	1	2.8
Blackpool	oro	cbc	34	42	2	1	0.1
Morecambe ...	rcr	cb-bc	31	41	3	0.5	0.6
Ilkley	sor	bc	33	39	13	3	0.0
Cleethorpes	orh	hors	31	35	7	7	0.0
Mablethorpe ...	orsr	orr	33	37	2	11	0.0
Skegness	cor	ro	33	37	1	9	0.0
Aberystwyth ...	bcrg	cb	36	43	10	-	2.8
Bath	cbcb	bm	35	45	10	-	3.5
Cheltenham ...	obc	bbc	36	43	11	-	2.7
Leamington Spa ...	orof	bcb	33	44	5	0.3	1.7
Lowestoft	c	cprof	34	41	-	2	0.0
Harwich & Dovercourt	oc	roc	33	40	-	8	0.0
Maldon	or	rr	31	37	-	6	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	opbc	bcb	41	46	12	1	4.7
Bude	b	b	38	45	9	-	4.5
St. Ives	bc	bc	40	45	28	-	5.2
Penzance	cb	b	41	49	15	-	5.4
Paignton	Rpgc	cbmbm	40	49	17	-	5.8
Torquay	rpwbc	bcbm	41	47	15	1	0.2
Jersey	rc	rc	35	47	6	0.2	3.8
Weymouth	bcc	b	41	47	6	-	2.5
Bournemouth ...	o	bf	38	45	10	1	0.3
Ventnor	orm	cbr-bc	37	44	6	3	0.9
Portsmouth (S'thsea)	orc	bmf	38	45	12	5	0.3
Bognor Regis ...	rro	cbcm	40	44	8	9	0.0
Littlehampton ...	oRc	cbc	38	44	7	8	0.0
Worthing	or	oro	37	44	5	11	0.0
Brighton	rr	ro	37	43	1	11	0.0
Eastbourne	orr	rrfo	36	42	-	13	0.0
Hastings	RR	ordo	34	40	0.4	6	0.0
Folkestone	corr	orr	32	38	-	6	0.0
Dover	crgo	ors	32	39	-	7	0.0
Deal	cor	rr	31	39	-	15	0.0
Tunbridge Wells ...	oro	od	31	38	0.3	6	0.0
Ramsgate	o	or	30	39	-	5	0.0
Margate	c	cr	31	38	-	5	0.0
Southend	or	or	33	38	Trace	5	0.0

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* Information not usually received. ‡ The observations at 1h. G.M.T. from an auxiliary station. † For conditions see page 1. ‡ See footnote page 1.

† In stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ◆ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24.868 Monday 23rd DECEMBER 1929.

Observations at 13h. G.M.T. 23rd

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	996.0	0	S'E	8	c/p	44	75	7	1500	CuNb	5	ASt	10	•
Stornoway	987.9	-1	SSE	2	bc-	43	55	8	-	-	0	CiSt	4	•
Wick	990.7	-1	SSE	4	orr	42	92	7	1500	Nb	10	-	10	•
Tiree	987.2	-1	SSE	6	cdd	39	85	6	1600	Nb	8	ASt	10	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	991.3	-1	SSE	4	crr	42	85	6	1500	Nb	9	ASt	10	2
Malin Head	987.7	0	SSW	3	bc-	38	92	7	2500	Cu	2	CiCu	7	•
Renfrew	991.9	-1	SW	1	ffc	22	97	2	-	-	0	Ci	8	7
Edinburgh (Inchkeith)	991.3	-1	ESE	2	o	37	85	7	800	St	10	-	10	•
Leuchars	991.0	-1	E	1	orr	33	92	6	800	Nb	10	-	10	2
Eskdalemuir	990.9	-1	N	1	o	32	97	6	800	St	10	-	10	7
Tynemouth	991.3	0	SSW	2	orr	36	97	4	1600	Nb	10	-	10	•
Blacksod Point	986.2	+1	S	3	bc	42	76	8	•	CuNb	6	-	6	•
Donaghadee	987.6	0	SE	3	c	41	76	7	4000	StCu	8	-	8	•
Birr Castle	988.6	-1	S	1	b	40	85	8	4000	StCu	1	-	1	•
Holyhead	989.6	-1	ESE	3	b+	41	75	7	4000	CuNb	1	ACu	2	1
Liverpool (Bidston)	989.7	-1	SE'S	4	mmo	33	97	4	2500	St	10	-	10	•
Chester (Sealand)	990.2	-1	SSE	4	mmo	33	97	4	450	St	10	-	10	1
Harrogate	991.5	0	SSE	1	oss	32	97	2	<150	St	10	-	10	•
Spurn Head	991.0	0	S	5	orr	38	97	6	2500	Nb	10	-	10	•
Birmingham (Edgbaston)	990.7	0	SW	1	fo-	36	97	2	<150	St	10	-	10	2
Cranwell	991.3	-1	SE	3	oss	33	97	3	800	Nb	10	-	10	7
Gorleston	992.0	-2	S'E	6	orr	40	92	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	988.5	-3	SSW	2	bc/pr	43	76	8	2500	Cu	2	CiCu	7	2
Roches Point	990.6	-1	SW	1	bc	42	85	8	2500	StCu	3	-	3	•
Pembroke (St. Ann's H.)	988.9	+1	WNW	2	bc/r	42	92	8	4000	Cu	4	CiCu	6	•
Ross-on-Wye	990.6	0	-	0	ffo	33	97	2	<150	St	10	-	10	2
Leafield	990.4	0	SE	1	fo-	36	97	2	<150	St	10	-	10	2
Winchester (Worthy Dn.)	990.2	0	-	0	c	41	92	6	1500	St	8	ASt	10	2
S. Farnborough	989.6	0	E	1	mmo	40	97	4	800	St	10	-	10	2
London (Kew Obsy.)	990.5	-1	SE'E	2	od	40	92	4	1600	Nb	10	-	10	2
Croydon	990.7	0	SSE	2	c/p	41	92	5	800	Nb	6	ASt	10	2
Shoeburyness	991.3	0	SE	4	c/r	38	97	8	2500	StCu	7	ASt	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	992.5	-1	SSE	6	orr	38	92	6	450	Nb	10	-	10	2
Lympne	991.0	-1	SSE	3	od	39	97	7	800	Nb	10	-	10	2
Scilly (St. Mary's)	991.3	+1	NW'N	6	b/pr	45	65	8	4000	Cu	5	-	5	•
Falmouth (Pendennis)	990.9	+2	WNW	4	bc-	44	65	8	4000	CuNb	3	-	3	•
Plymouth (Mt. Batten)	990.1	+2	NW	4	crr	39	92	7	1500	Nb	7	ASt	9	2
Portland Bill	988.3	0	ENE	3	bc	44	85	7	1500	CuNb	6	ASt	7	•
Southampton (Calshot)	990.2	0	NW	1	cr	40	97	4	4000	Nb	6	ASt	10	2
Dungeness	990.7	0	S	2	cr	41	97	8	1500	CuNb	8	ASt	10	•
Guernsey (St. Peter Port)	989.8	-1	SSE	1	or-	43	92	7	1500	Nb	10	-	10	•

Observations at 18h. G.M.T. 23rd

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Set. 0-9
Lerwick	998.0	+2	S'E	8	c	44	75	7	1500	StCu	5	ASt	10	•
Stornoway	988.0	0	SSE	4	b-	40	65	8	-	-	0	ASt	2	2
Wick	992.1	+2	SSE	6	orr	42	97	7	1500	Nb	10	-	10	5
Tiree	987.7	+1	S'E	5	c	40	92	7	1500	StCu	7	CiSt	8	5
Nairn	989.5	•	-	0	c	31	85	7	1500	St	9	-	9	•
Aberdeen	992.5	+2	SSE	6	orr	42	92	6	1500	Nb	10	-	10	6
Malin Head	988.8	+1	S	1	b	34	92	7	2500	Cu	1	-	1	2
Renfrew	992.7	+1	WNW	1	fc-	19	97	3	-	-	0	ASt	10	•
Edinburgh (Inchkeith)	992.5	+1	SE	2	bcr	36	92	6	800	St	7	-	7	0
Leuchars	992.0	+2	E	2	cr	36	92	6	800	St	9	ASt	10	•
Eskdalemuir	991.7	+1	N'E	2	o+	32	92	6	800	St	10	-	10	•
Tynemouth	992.0	+1	SSW	2	orr	36	97	4	1500	Nb	10	-	10	3
Blacksod Point	986.1	0	S	3	bc	39	92	7	•	CuNb	56	-	56	5
Donaghadee	989.3	+1	SSW	2	cr	37	92	7	1500	Nb	9	-	9	1
Birr Castle	985.0	0	SE	1	b	33	92	8	-	-	0	ACu	1	•
Holyhead	990.8	+1	SSE	3	cr	40	92	6	1500	Nb	8	ASt	10	0
Liverpool (Bidston)	991.1	+1	SE'S	5	o/m	31	97	5	2500	St	10	-	10	•
Chester (Sealand)	991.6	+2	SSE	4	o/m	32	97	6	450	St	10	-	10	•
Harrogate	992.9	0	SSE	1	FFo	32	97	1	<150	St	10	-	10	•
Spurn Head	992.4	+1	S	4	orr	38	92	7	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	993.1	+2	SW	1	fo-	32	97	4	1500	St	10	-	10	•
Cranwell	992.7	+2	SSE	3	fo+	33	97	2	1500	St	10	-	10	•
Gorleston	993.5	+1	S'E	4	o	41	85	7	1500	Nb	10	-	10	1
Valentia (Cahirciveen)	985.8	-4	SE'S	4	or+	42	85	8	1500	St	10	-	10	5
Roches Point	990.2	-1	VV	3	bc	42	92	8	2500	CuNb	5	-	5	4
Pembroke (St. Ann's H.)	991.0	+3	SW'W	2	bc-	43	85	8	2500	StCu	3	CiCu	4	2
Ross-on-Wye	992.9	+3	-	0	ffo	33	97	3	220	St	10	-	10	•
Leafield	992.5	+2	S'E	1	c	34	97	6	1500	St	9	-	9	•
Winchester (Worthy Dn.)	992.8	+2	E	1	bc-	38	97	6	2500	StCu	4	-	4	•
S. Farnborough	992.2	+3	-	0	mmo	40	97	4	800	St	10	-	10	•
London (Kew Obsy.)	992.5	+3	SE	1	fo-	40	92	4	2500	St	10	-	10	•
Croydon	992.6	+3	-	0	mmc	39	97	4	1500	StCu	7	ASt	10	•
Shoeburyness	992.7	+2	SE	3	c	41	92	8	2500	StCu	5	ASt	10	•
Clacton-on-Sea	992.6	+1	S	4	o	41	92	7	2500	St	10	-	10	3
Felixstowe	993.5	+1	SSE	4	c	41	85	6	2500	StCu	10	-	10	3
Lympne	992.8	+2	SSE	3	orr	40	92	7	800	Nb	10	-	10	•
Scilly (St. Mary's)	991.7	0	SW'S	3	bc+	49	75	8	4000	Cu	4	ACu	6	3
Falmouth (Pendennis)	993.1	+2	WSW	2	bc	41	75	8	4000	Cu	4	ACu	6	0
Plymouth (Mt. Batten)	993.3	+3	NNW	1	b-	40	85	6	-	-	0	ACu	1	1
Portland Bill	991.5	+5	NNW	3	or	41	85	8	1500	St	10	-	10	3
Southampton (Calshot)	992.5	+2	SSW	1	[illegible]	39	97	3	4000	StCu	3	-	3	0
Dungeness	992.6	+3	SSW	2	c/r	42	92	7	1500	StCu	10	-	10	2
Guernsey (St. Peter Port)	994.0	+7	NW	4	bc/r	43	85	7	1500	StCu	6	-	6	5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (In hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility
Kew	18	cn/sl/fog	o/om	ow/bc/fog	41	31	26	1	Tr	0.0	*	*	3
Croydon	244	cn/mc	c/mm	cd/mc	41	34	31	1	.04	0.0	*	*	6
Greenwich (Royal Obsy.)	149	cn/dc	c	cf/bcx	41	32	24	.05	.03	0.0	89	92	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	42	37	27	1		0.0	98	85	*
Regent's Pk. (Botanic Gdns.)	165	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	o/mm	om	*	39	34	*	1	-	*	*	97	*
Kensington Palace	80	o/dm	om	*	41	33	26	.05	-	*	(At 18h. 88)	96	*
Hampstead Observatory	450	*	*	*	40	31	25	1	Tr	0.0	*	80	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 23rd (1)

South Kensington Max.	Time.	Min.	Time.
2.0	17h 22nd	0.3	4h 23rd

Kew Observatory Max.	Time.	Min.	Time.
6.8	11h 22nd	0.1	2-5h 23rd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 22h. 17h. 0m. to 22h. 7h. 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	3.54	28
δ Ursae Minoris	14.0	Nil	Nil

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

23rd & 24th DECEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.52	15.39
	8.6	11.53	15.39
Greenwich	8.6	11.59	15.52
	8.7	11.59	15.52
Wick	9.5	12.11	15.17
	9.6	12.12	15.18
Valentia	8.56	12.46	16.30
	8.56	12.46	16.31

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☿ = lunar halo.

With present weather is combined, wherever 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.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

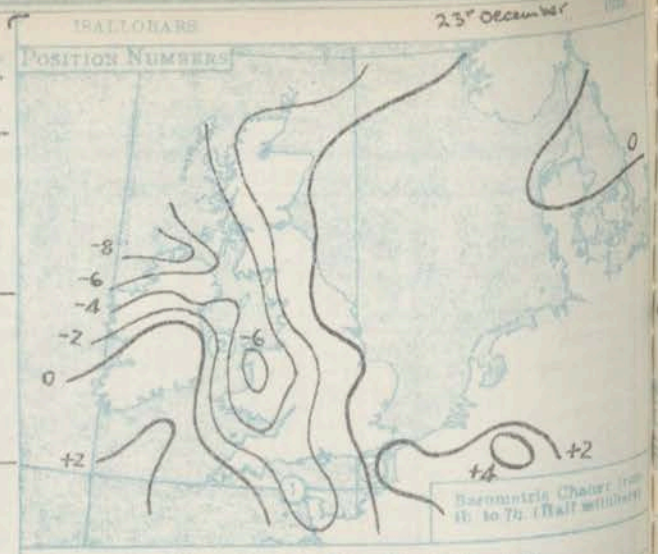
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 22nd	Weather. 18h.-18h. 22nd	Weather. 18h. 22nd to 1h. 23rd	Weather. 1h.-7h. 23rd	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. began.	Rainfall.† Night. 18h.-7h. mm	Rainfall.† Night. began.	Sun 22nd Hours.
Lerwick	oir.	oir.	cbcphq	coirq	44	40	•	1	<8.00	2	22.00	0.0
Stornoway	o	c	b-be	bbc	43	36	•	–	–	–	–	3.5
Wick	cprorr	or.rr	orrr	ocrrorrc	43	40	•	5	<8.00	5	<21.00	•
Tiree	cDz.	crc	c	rc	40	36	34	14	11.00	0.6	1.30	0.0
Nairn	c	c	cxbx	bc	31	30	•	–	–	–	–	0.0
Aberdeen	crhqrr	orr.rr	our rr	orcbc	42	40	38	10	9.00	13	<21.00	0.0
Malin Head	cr.bc	bcbw	b	bbc r.	38	31	•	0.3	<8.00	1	4.30	1.6
Renfrew	bmcffx	cffx	cfbcmx	bccm.x	25	16	12	–	–	–	–	0.0
Edinburgh (Inchkeith)	o	ocmbcir.	bcco	bbc	37	32	28	Tr.	16.30	Tr.	<21.00	0.0
Leuchars	cxor.r.	cir.m.	crbccrbcx	bcxm.	36	31	21	2	11.00	1	<21.00	0.0
Eskdalemuir	om.	oco	om.	om.psc	33	27	21	–	–	Tr.	–	0.0
Tynemouth	or.m	orrm	omf.m.	om.	38	33	30	5	<8.00	0.3	<21.00	•
Blackpool Point ...	bbc	bbc	c	bc	43	37	•	4	•	0.5	•	•
Donaghadee	bcc	cir.	oir.	oir.	43	35	•	4	14.30	1	<21.00	•
Birr Castle	bbcb	b bx	bxb	bcir	40	32	23	–	–	2	3.30	5.6
Holyhead	b	bccr.	r.cbc	bccm.	43	38	32	Tr.	16.30	0.5	<21.00	4.3
Liverpool (Bidston) ...	ofemo	oem.o	m.cbw	wxbcc	33	30	29	Tr.	–	–	–	0.0
Chester (Sealand) ...	offm	omm	bcbm.	cm.	33	32	29	–	–	–	–	0.0
Harrogate	offs.s.	s. FF	OFF	OFF	32	30	30	1	<8.00	–	–	0.0
Spurn Head	orr	orr	or.off	offzoff	39	34	•	8	<8.00	0.2	<21.00	0.0
Birmingham (Edgbaston)	os.FF	off	mo	oc	35	31	31	1	<8.00	–	–	0.0
Cranwell	ossf	orsffe	obxFF	bfeFe	34	24	21	4	<8.00	0.1	–	0.0
Gorleston	orrq	orroq	oir.q	or.q.o	41	39	38	6	9.00	0.4	<21.00	0.0
Valentia (Cahirciveen)	bxbcph	cpeir.	circrrc	cbc	43	41	39	2	<8.00	8	<21.00	1.9
Roches Point	bbc	bcp.hbc	bcorr	orbc	45	41	•	0.1	15.30	8	22.00	•
Pembroke (St. Ann's H.)	cbeiR	bc	bccq	crrqm.	45	41	•	3	<8.00	8	1.30	2.7
Ross-on-Wye	FF	off	offom	c	33	32	29	0.1	–	Tr.	–	0.0
Leafield	x.?FFO	o	cbc	FFb	36	32	32	0.6	<8.00	0.1	–	0.0
Winchester (Worthy Dn.)	cffm m.	cmbcm	bcmossc	cmcm.	41	31	26	–	–	–	–	0.1
S. Farnborough ...	oddfom	omdom	ombf	bxfe	41	31	27	1	<8.00	0.1	–	0.0
London (Kew Obsy.) ...	cmrfdcm	ofom	om	ombcfw	41	31	26	1	<8.00	Tr.	–	0.0
Croydon	ocrrmc	cm.m	cobcm	bcmorb	41	34	31	1	<8.00	0.4	4.30	0.0
Shoeburyness	cr.c	c	or.	bc	41	34	28	1	<8.00	(Tr.)	–	0.0
Clacton-on-Sea ...	cdorr	orrog	agbc	cbc	41	39	33	3	<8.00	1	<21.00	0.0
Felixstowe	orrcrm	orrm.c	cbormc	cbcb	41	35	29	2	<8.00	0.6	<21.00	0.0
Lympne	orrrdd	ocrorrr	orrcbcc	crcpr	40	37	32	2	<8.00	1	<21.00	0.0
Scilly (St. Mary's) ...	cbep.	bc	coir	orcpbc	46	42	•	0.3	<8.00	2	22.00	5.1
Falmouth (Pendennis)	or.bcph	bc	bccrq	crcpbc	46	39	•	1	<8.00	1	22.00	5.3
Plymouth (Mt. Batten)	cormrr	or bm	bmx c	cordm.	44	33	28	3	<8.00	2	24.00	1.3
Portland Bill	ciPHc	cPc	b	bbcc	44	35	•	6	<8.00	1	<21.00	•
Southampton (Calshot)	cfm	cr.cbcmf	bcf	bcfbbcc	412	35	31	Tr.	12.30	0.5	4.30	0.0
Dungeness	crrcr.	cr.rro	cbc	bccrcr.	42	37	•	2	<8.00	6	24.00	•
Guernsey	orror	ororc	orcbc	bcir.	45	39	28	4	09.00	1	<21.00	0.2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
3	23rd 2h	Dieppe	S	3	bcir	41	50

GENERAL INFERENCE.

Secondary disturbances crossing the British Isles from the West will maintain unsettled and rather cold weather generally with some rain or sleet in most districts and snow on hills and locally elsewhere.

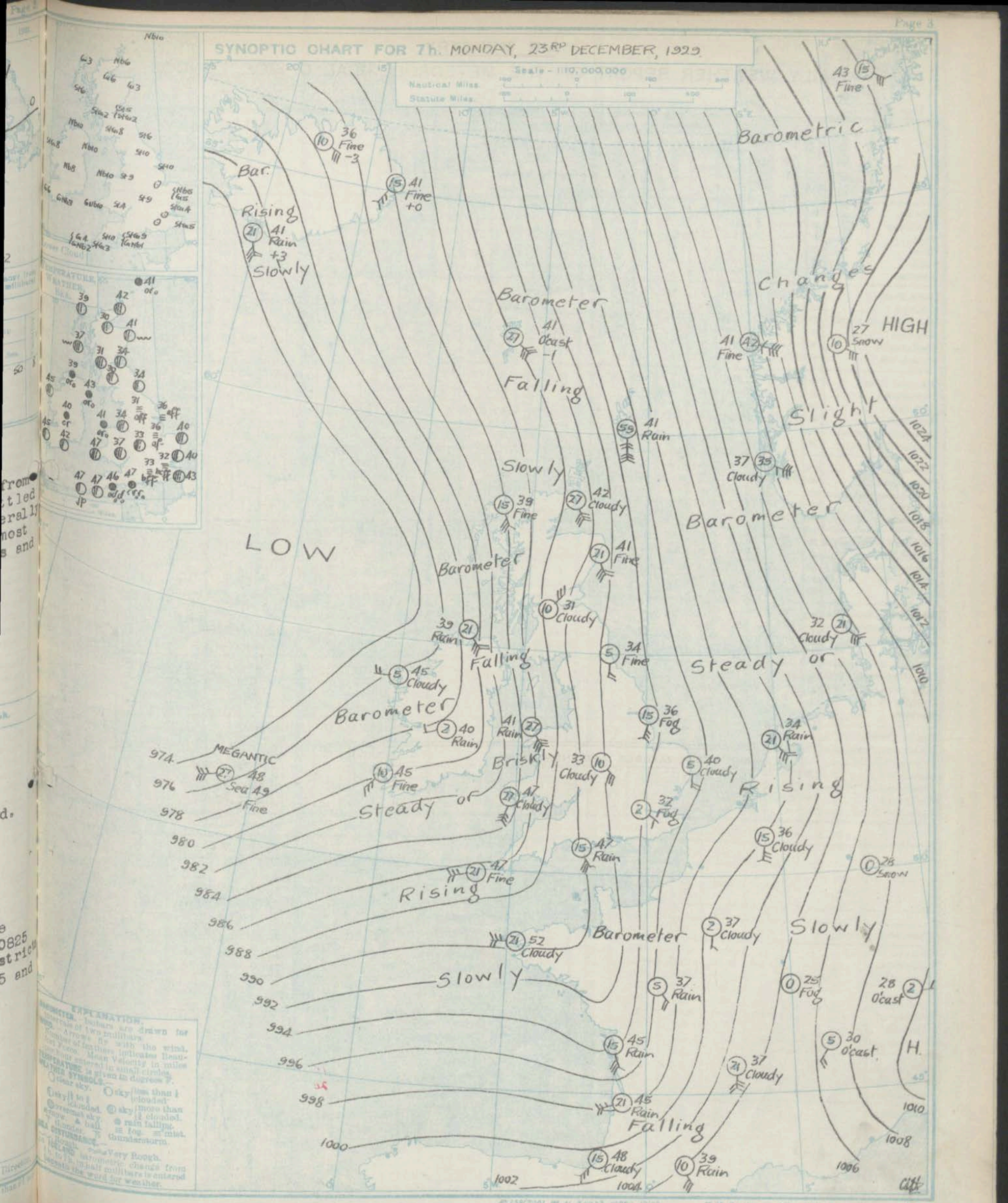
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 23rd December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh southerly winds, strong at times, veering south-westerly temporarily; cloudy, some rain and sleet with perhaps snow locally; rather cold; frost at night.	
4. W. Midlands 5. S.W. England 6. South Wales	Fresh westerly winds, strong at times, backing; cloudy with occasional brighter intervals at first, some rain or sleet later with perhaps snow locally on high ground; rather cold, frost at night.	Unsettled.
7. North Wales 8. N.W. England 9. N. Midlands	Fresh southerly winds, strong at times, veering temporarily; some rain or sleet at first, bright intervals with wintry showers later; snow on hills; rather cold; frost at night.	↓ South Cone hoisted at 0825 today in districts 13A, 13B, 15 and 16.
10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man 13 (A W. Scotland (B N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Strong southerly winds, stronger at times localy; cloudy, some rain and sleet with snow on high ground and locally elsewhere; rather cold; frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 6.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1 mm.

SYNOPTIC CHART FOR 7h. MONDAY, 23RD DECEMBER, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 23rd DECEMBER 1929. No. 357.

Stations.	Height above M.S.L. in feet.	1h. G.M.T. 23rd: Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-1
Lerwick	54	998.2	0	S'E	8	cjp	43	75	8	1500	CuNb	5	A.St	8	
Stornoway	30	989.1	-2	SE	3	b-	•	•	8	•	•	•	•	2	
Wick	81	990.3	-2	SSE	8	or,r,	43	85	7	1500	Nb	10	–	10	
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	
Malin Head	81	985.4	-3	SE	3	b	33	85	8	4000	Cu	1	–	1	
Renfrew	58	•	•	•	•	•	•	•	•	•	•	•	•	•	
Edinburgh (Inchkeith)	100	990.8	-1	SE	1	bc	35	85	7	1500	St	7	–	7	
Leuchars	50	•	•	•	•	•	•	•	•	•	•	•	•	•	
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	
Tynemouth	67	991.8	0	SSW	2	0	35	97	5	1500	Nb	10	–	10	
Blacksod Point	15	979.6	-3	SE	4	c	39	85	7	•	CuNb	9	–	9	
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	
Holyhead	28	990.2	-1	SSE	4	bc	39	85	7	2500	St	2	CiSt	4	
Liverpool (Bidston)	180	•	•	•	•	•	•	•	•	•	•	•	•	•	
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	
Harrogate	479	•	•	•	•	•	•	•	•	•	•	•	•	•	
Spurn Head	26	992.9	0	S	2	FFo	35	97	2	2150	St	10	–	10	
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•	
Cranwell	256	993.8	+1	–	0	Fb+	24	92	1	–	–	0	–	0	
Gorleston	14	994.7	0	S	3	or,	42	92	6	800	Nb	10	–	10	
Valentia (Cahirciveen)‡	30	977.4	-4	S	4	0	46	97	8	•	St	10	–	10	
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	
Pembroke (St. Ann's H.)	160	987.8	-2	SSE	3	c+	45	97	8	2500	CuNb	7	ACu	10	
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	
Leafield	619	•	•	•	•	•	•	•	•	•	•	•	•	•	
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	
S. Farnborough	287	•	•	•	•	•	•	•	•	•	•	•	•	•	
London (Kew Obsy.)	18	•	•	•	•	•	36	•	•	•	•	•	•	•	
Croydon	244	993.8	0	SSW	1	mmbc	37	97	4	2500	StCu	7	–	7	
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	
Lympne	350	994.1	0	S'E	2	c+	39	85	8	2500	St	8	A.St	10	
Scilly (St. Mary's)	163	985.7	-8	S'W	6	or	47	92	7	2500	Nb	10	–	10	
Falmouth (Pendennis)	200	989.7	-5	SSW	6	cr	48	85	7	2500	Nb	7	A.St	10	
Plymouth (Mt. Batten)	62	•	•	•	•	•	•	•	•	•	•	•	•	•	
Portland Bill	32	992.1	-2	S'W	3	b-	44	65	8	4000	StCu	1	–	1	
Southampton (Calshot)	10	993.6	0	SW'S	1	fbc+	37	92	3	1500	St	6	–	6	
Dungeness	20	994.2	0	SSW	1	bc-	43	85	8	2500	StCu	3	CiCu	5	
Guernsey (St. Peter Port)	173	993.8	-3	S	2	bc	44	75	7	2500	StCu	4	–	4	

Stations.	7h. G.M.T. 23rd: Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-1
Lerwick	995.1	-3	S'E	10	or,	41	85	7	1500	Nb	10	–	10	•
Stornoway	983.7	-2	SSE	4	bc	39	75	7	5700	Cu	3	–	3	3
Wick	988.6	-1	SSE	6	c	42	92	7	1500	Nb	6	CiSt	8	5
Tiree	981.2	-5	SE'S	7	c	37	85	6	800	St	6	ACu	8	0
Nairn	986.6	•	–	0	bc	30	85	7	2500	Cu	6	–	6	•
Aberdeen	990.0	0	SSE	5	bc-	41	75	7	1500	Cu	3	–	3	6
Malin Head	978.8	-9	SE	5	or+	39	97	6	2500	Nb	10	–	10	4
Renfrew	983.7	-2	NE	3	c	31	97	6	4000	StCu	2	Ci	8	•
Edinburgh (Inchkeith)	990.1	-1	SE	2	bc	34	85	7	1500	St	7	–	7	0
Leuchars	990.1	-1	SE	1	bc	33	85	6	2500	StCu	6	–	6	•
Eskdalemuir	988.8	0	SSE	2	c	30	85	7	2500	StCu	8	–	8	•
Tynemouth	992.3	0	S	2	bc-	34	92	7	1500	St	6	–	6	3
Blacksod Point	976.2	-2	W	2	c	45	85	7	•	StCu	8	–	8	5
Donaghadee	982.3	-4	S	6	or,	43	75	7	1500	Nb	10	–	10	3
Birr Castle	978.4	0	SW	1	cr	40	97	7	2500	Nb	8	–	8	•
Holyhead	984.8	-6	SE'S	6	cr,	41	92	6	1500	Nb	10	–	10	5
Liverpool (Bidston)	988.0	-2	SE	5	c	34	85	5	1500	St	9	–	9	•
Chester (Sealand)	983.4	-4	SE'S	4	c	35	85	6	1500	St	10	–	10	•
Harrogate	992.4	0	SSE	1	fgo	31	97	2	4150	St	10	–	10	•
Spurn Head	993.2	0	SSW	4	fgo	36	97	2	4150	St	10	–	10	3
Birmingham (Edgbaston)	992.2	-1	SE	3	c	33	97	6	800	St	9	–	9	•
Cranwell	993.2	-1	S'E	3	FFb	33	97	1	–	–	0	–	0	•
Gorleston	994.2	0	S	2	c	40	92	6	2500	Nb	10	–	10	0
Valentia (Cahirciveen)‡	980.1	0	SWW	3	bc	45	75	8	2500	Cu	6	–	6	4
Roches Point	981.9	+2	W	2	bc	42	92	8	1500	CuNb	3	–	3	4
Pembroke (St. Ann's H.)	983.2	-4	SSW	6	c/r	47	97	7	1500	CuNb	10	–	10	3
Ross-on-Wye	990.1	-2	SE'S	4	c	37	85	7	2500	St	4	ASt	9	•
Leafield	991.8	-1	SE'E	4	FFb	33	97	1	–	–	0	–	0	•
Winchester (Worthy Dn.)	993.3	-1	E'S	3	c	35	97	7	2500	StCu	7	ASt	9	•
S. Farnborough	993.3	0	SE'S	2	FFb	33	97	1	–	–	0	–	0	•
London (Kew Obsy.)	994.2	0	SE	1	SSbc	32	97	3	–	–	0	ACu	7	•
Croydon	994.1	0	SSE	2	bc+	35	97	6	–	–	0	Ci	5	•
Shoeburyness	995.1	0	SSE	4	bc	39	92	8	1500	Cu	1	CiSt	4	•
Clacton-on-Sea	995.1	+1	S	3	bc+	40	92	7	7200	StCu	4	–	4	0
Felixstowe	995.7	+1	SSW	2	bc	39	92	7	4000	StCu	3	–	3	•
Lympne	995.7	+2	~~SSW~~	2	bc/pc	38	85	8	4000	CuNb	6	–	6	•
Scilly (St. Mary's)	986.1	0	W'S	5	bcjp	47	92	7	4000	Cu	6	–	6	5
Falmouth (Pendennis)	986.0	+1	SSW	3	bc-	47	92	8	4000	StCu	3	–	3	4
Plymouth (Mt. Batten)	987.8	-1	SE	5	cdz	46	97	6	4150	St	10	–	10	5
Portland Bill	988.9	-4	SSE	6	CrG	47	85	8	1500	StCu	10	–	10	4
Southampton (Calshot)	992.8	-1	SSE	4	c	44	75	8	4000	StCu	4	ACu	8	3
Dungeness	995.2	+3	SSW	2	c/r	43	85	8	1500	StCu	6	ACu	8	0
Guernsey (St. Peter Port)	991.0	-3	S	4	or+	44	97	5	1500	Nb	10	–	10	0

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 22nd December.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-21 to 9h. 22nd °F.	Temperature. Max. 9h.-17h. 22nd °F.	Rainfall.† Night 17h.-9h. 21-22nd mm.	Rainfall.† Day 9h.-17h. 22nd mm.	Sunshine. Sunrise to Sunset 22nd hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	r,c	cr,	26	37	2	2	0.0
Douglas (I. o. M.)	c	c	35	40	–	–	0.8
Llandudno	b-bc	b-bc	32	42	–	–	5.5
Colwyn Bay	b	b	28	42	–	–	5.9
Rhyl	b	b	29	39	–	–	4.3
Wallasey	fo	o	31	34	–	–	0.0
Southport	om	om	*29	35	–	–	0.0
Blackpool	o	c	30	36	–	–	0.0
Morecambe	xo	co	30	38	–	–	0.0
Ilkley	omg	o	33	39	0.3	–	0.0
Cleethorpes	or	d	32	36	(6)	4	0.0
Mablethorpe	orr	orr	35	38	8	4	0.0
Skegness	or	ro	36	37	8	3	0.0
Aberystwyth	bx	cr	33	40	–	0.6	3.7
Bath	cm	mc	29	37	–	–	0.0
Cheltenham	ofe	o	31	39	Trace	–	0.0
Leamington Spa	moc	cm	29	38	0.4	–	0.0
Lowestoft	opr	or	36	40	13	5	0.0
Harwich & Dovercourt	roc	rococ	34	40	14	2	0.0
Maldon	rr	ro	35	39	10	1	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcc	ode	35	44	–	1	1.2
Bude	rbcp	bcp	32	43	5	0.4	1.2
St. Ives	b	bcpbce	37	45	13	0.5	5.0
Penzance	cb	b	(39)	40	14	–	5.2
Paignton	cmoh,	mrbcm	29	40	–	1	0.2
Torquay	pomh,	frbcm	34	42	0.2	1	0.3
Jersey	cp	rcq	39	45	3	2	0.0
Weymouth	bcpc	bcir	32	42	1	4	0.7
Bournemouth	fc	fc	30	39	0.3	0.3	0.0
Ventnor	ropo	opcu	38	44	2	0.3	0.0
Portsmouth (S'thsea)	cm	cmf	39	43	1	–	0.0
Bognor Regis	oc	cbcco	41	45	3	–	0.1
Littlehampton	cr,c	cpc	39	44	3	1	0.0
Worthing	orcr	cr	41	43	7	2	0.0
Brighton	ro	ocor	41	43	6	5	0.0
Eastbourne‡	oidr	ororo	39	43	6	9	0.0
Hastings‡	odr	orrd	38	43	11	3	0.0
Folkestone	orr	oir	35	41	7	1	0.0
Dover	orir	iroco	37	41	8	2	0.0
Deal	ror	od	35	39	19	1	0.0
Tunbridge Wells	oro	o	34	40	7	0.5	0.0
Ramsgate	d	do	35	40	6	0.4	0.0
Margate	cd	c	32	41	11	1	0.0
Southend	od,r	od,	36	40	7	1	0.0

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. ‡ See footnote page 1.

‡ The observations at 1h. G.M.T. from an auxiliary station. § For code see page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ♦ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21869 Tuesday 24th December 1929.

Observations at 15h. G.M.T. 23rd

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	993.3	-3	SE	10	0/0	42	85	7	1500	Nb.	10	-	10	•
Stornoway	979.5	-5	SE	7	0r	41	75	7	2500	St.	10	-	10	•
Wick	987.1	-1	SSE	8	bc-	43	85	7	2500	St.Cu.	5	Cu.	7	•
Tiree	977.6	-2	SSE	8	0/4	40	92	6	800	Nb.	10	-	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	988.5	-3	SSE	5	bc-	43	75	7	1500	Cu.	5	Cu.	6	2
Malin Head	979.8	+1	SSE	4	8	43	85	7	2500	Cu.	1	A.Cu.	1	•
Renfrew	984.1	-6	ENE	3	0/3	36	92	5	800	Nb.	10	-	10	7
Edinburgh (Inchkeith)	986.3	-3	ESE	4	0	37	75	6	800	St.	10	-	10	•
Leuchars	988.0	-2	SE	5	c/0	37	85	6	1500	Nb.	9	A.St.	10	3
Eskdalemuir	984.9	-5	SSE	6	8/0+	34	92	5	800	Nb.	10	-	10	7
Tynemouth	990.1	-2	S	3	0	37	97	6	1500	Nb.	10	-	10	•
Blacksod Point	976.8	-1	W	3	bc	46	65	8	•	Cu.	6	-	6	•
Donaghadee	980.1	-1	SW	2	b-	46	85	7	4000	Cu	2	-	2	•
Birr Castle	980.2	-1	S	1	c+	42	85	8	2500	St.	6	Cu.St.	9	979.5
Holyhead	984.2	+1	SSE	4	c/-	45	97	6	800	Nb.	9	-	9	2
Liverpool (Bidston)	986.1	-1	SE'S	5	c+	39	85	7	2500	St.	9	-	9	•
Chester (Sealand)	987.2	-2	SE	4	c	40	92	5	800	Nb.	6	A.St.	10	2
Harrogate	990.2	-2	SSE	3	ff0	33	97	2	450	St.	10	-	10	•
Spurn Head	991.5	-1	S	5	c	40	92	6	1500	St.	5	Cu.Cu.	9	•
Birmingham (Edgbaston)	989.4	-1	SSE	3	0/0/0	39	97	5	800	Nb.	10	-	10	2
Cardiff	991.5	-4	SE'S	4	c	36	97	5	1500	St.	10	-	10	7
Torquay	995.3	-1	SE	5	bc+	44	92	7	4000	Nb.	2	A.Cu	7	•
Valentia (Cahirciveen)	979.0	-3	SW	3	c/r	44	92	8	1500	St.	7	A.St.	10	2
Roches Point	981.4	-3	SW	3	c/0	47	97	7	1500	Nb.	8	-	8	•
Pembroke (St. Ann's H.)	983.5	0	SSW	4	c	50	92	7	1500	St.Cu.	9	A.St.	10	•
Ross-on-Wye	987.9	-3	SE	3	0d/0	43	92	6	2500	Nb.	10	-	10	2
Leafield	989.2	-3	SE	4	0/0/0	39	97	5	220	Nb.	10	-	10	2
Winchester (Worthy Dn.)	990.8	-3	SSE	4	0d/d	42	97	6	220	Nb.	10	-	10	2
S. Farnborough	990.8	-4	SE'S	4	0d/d	42	97	6	450	Nb.	10	-	10	2
London (Kew Obsy.)	991.7	-4	SSE	4	0/0	42	85	5	800	Nb.	10	-	10	2
Croydon	992.3	-3	SSE	5	0d/d	41	92	5	800	St.	10	-	10	2
Shoeburyness	994.0	-1	SSE	5	cd	40	97	8	1500	St.	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	995.1	-1	SSE	6	c	42	85	8	1500	St.Cu.	8	-	8	1
Lympne	994.1	-3	SE	5	0/0	39	92	5	800	St.	10	-	10	2
Scilly (St. Mary's)	985.0	-1	SW'S	4	c	50	85	7	4000	St.Cu.	8	-	8	•
Falmouth (Pendennis)	987.7	0	SW	4	c+	50	85	6	4000	St.Cu.	5	A.St.	10	•
Plymouth (Mt. Batten)	987.2	-2	SW	X3	c	49	97	7	1500	Nb.	4	A.St.	10	2
Portland Bill	987.2	-2	SW	4	c	50	85	8	2500	St.	9	-	9	•
Southampton (Calshot)	989.9	-4	SSE	5	0d	44	92	6	450	St.	10	-	10	2
Dungeness	993.0	-3	SSW	5	c/0	41	97	7	1500	Nb.	7	A.St.	10	•
Guernsey (St. Peter Port)	990.8	-1	SSW	2	c	51	92	5	2000	St.Cu	10	-	10	•

Observations at 18h. G.M.T. 23rd

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	992.7	-1	SE	8	c/p	42	85	7	1500	Cu.Nb.	5	A.St.	9	•
Stornoway	978.8	-1	SSE	5	0	40	92	6	2500	Nb.	10	-	10	4
Wick	986.6	-2	SSE	8	c	44	85	7	1500	St.	10	-	10	7
Tiree	978.3	+1	S	5	bc-	43	85	7	1500	St.Cu	5	-	5	6
Nairn	981.9	•	SSE	3	bc	38	85	8	2500	Cu.	5	-	5	•
Aberdeen	987.5	0	SSE	6	0/0	43	75	6	1500	Nb.	10	-	10	6
Malin Head	979.1	0	SSE	4	c+	42	85	7	4000	St.Cu.	6	A.St.	8	3
Renfrew	984.4	+2	SSE	4	bc-	38	92	5	2500	St.Cu	4	-	4	•
Edinburgh (Inchkeith)	985.3	-1	ESE	4	0/0	38	85	6	800	St.	10	-	10	2
Leuchars	986.5	+1	SE	5	0r-	37	92	6	800	Nb.	10	-	10	•
Eskdalemuir	985.6	+1	SE	4	0/0	35	97	6	800	St.	10	-	10	•
Tynemouth	988.4	-1	SSE	4	0/0	41	85	6	1500	Nb.	10	-	10	4
Blacksod Point	977.4	+1	W	3	~~bc(c)~~	42	75	7	•	Cu.Nb	6	-	6	5
Donaghadee	980.6	0	SW	2	bc	44	85	7	4000	St.Cu.	7	-	7	2
Birr Castle	979.5	+1	S	1	c-	41	92	7	2500	Nb.	9	-	9	•
Holyhead	983.5	-1	SE'S	4	c/0	46	92	6	1500	Nb.	8	A.St.	10	3
Liverpool (Bidston)	984.6	-2	SE	5	0	42	92	6	2500	St.	10	-	10	•
Chester (Sealand)	985.2	-3	SE	4	0	42	92	6	800	St.	10	-	10	•
Harrogate	988.3	-1	ESE	3	0d/d	37	92	5	2500	St.	10	-	10	•
Spurn Head	989.4	-3	S'E	6	0d/d	41	92	7	2500	Nb.	10	-	10	5
Birmingham (Edgbaston)	986.4	-4	SE	3	0	41	97	5	1500	Nb.	10	-	10	•
Cardiff	989.2	-2	SE'S	5	0d	37	97	6	4500	Nb.	10	-	10	•
Torquay	991.9	-4	SSE	7	0/0/0	42	92	6	800	Nb.	10	-	10	5
Valentia (Cahirciveen)	980.1	+3	WSW	4	c/0	44	85	8	2500	Nb.	6	A.St.	8	5
Roches Point	981.4	0	WNW	3	bc	42	92	7	1500	Cu.Nb.	5	-	5	4
Pembroke (St. Ann's H.)	981.2	-3	SSW	3	0/r	47	97	7	800	Nb.	10	-	10	3
Ross-on-Wye	984.9	-4	SE	3	c	43	92	5	800	Nb.	8	A.St.	10	•
Leafield	986.2	-3	SE	4	ff0	41	97	3	450	St.	10	-	10	•
Winchester (Worthy Dn.)	987.1	-4	SSE	3	0/0	46	97	6	800	Nb.	10	-	10	•
S. Farnborough	987.6	-5	SE	3	0/r	45	97	6	800	St.	10	-	10	•
London (Kew Obsy.)	988.4	-5	SE'S	3	0/r	43	97	6	1500	St.	10	-	10	•
Croydon	989.2	-5	S'E	4	0d/d	43	92	5	800	Nb.	10	-	10	•
Shoeburyness	990.8	-4	SSE	4	0d	42	97	7	1500	St.	10	-	10	•
Clacton-on-Sea	991.5	-3	SSE	6	0	42	92	7	4000	St.	10	-	10	4
Felixstowe	992.6	-4	SSE	6	0r-	41	97	6	220	Nb.	10	-	10	3
Lympne	991.0	-4	S'E	4	0/0/0	41	97	5	450	Nb.	10	-	10	•
Scilly (St. Mary's)	981.7	-2	SW'S	2	c/r	47	97	7	2500	Nb.	8	-	8	5
Falmouth (Pendennis)	981.2	-6	SE'E	3	c/0	47	92	7	4000	St.Cu	10	-	10	0
Plymouth (Mt. Batten)	981.7	-7	SE	2	0/r	47	97	7	800	Nb.	10	-	10	3
Portland Bill	983.9	-5	SE	4	0/PR	50	92	7	1500	St.	10	-	10	6
Southampton (Calshot)	986.8	-5	S'E	4	0/0	45	92	6	1500	St.	10	-	10	3
Dungeness	990.2	-3	S	6	0/0/0	44	85	7	1500	Nb.	10	-	10	6
Guernsey (St. Peter Port)	985.0	-8	SE	4	0r	49	92	5	1500	Nb.	10	-	10	7

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9a.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday)	Humidity. 15h. G.M.T. % (Yesterday)	Humidity. 9h. G.M.T. % (To-day)	Sea temp.
Kew	18	bc/r c	or, m	omfr	43	43	38	0.1	6	0.0	•	•	46
Croydon	244	bc/r m	d/d/m	d/r r c	43	42	39	0.2	5	0.0	•	•	4
Greenwich (Royal Obsy.)	149	c	cd	cd, r m	43	40	34	0.3	5	0.2	94	80	•
City (Bunhill Row)	90	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	45	39	35	5	•	0.0	86	98	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	cfc	or	•	43	41	•	0.5	5	•	(At 18h.) 94	88	•
Kensington Palace	80	c m d	or	•	43	42	37	0.3	5	•		93	•
Hampstead Observatory	450	•	•	•	43	38	32	1	7	0.0	•	91	•

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	1.3	9h. 23rd	0.3	3-6h. 24th
Kew Observatory	0.7	9h. 23rd	0.1	3-5h. 24th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 23rd 17h. to 24th 7h.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	Nil	Nil
δ Ursae Minoris	14.0	Nil	Nil

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep).
4 = Bare ground frozen (but more than 2 ins. deep).
5 = Dew (or wet grass but not wet ground).
6 = Skating to-day in 13h. and 18h. reports (Hoar frost in 13h. and 7h. reports).
7 = Snow (thin layer, often not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer).
9 = Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

24th & 25th December, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.53	15.39
	8.6	11.53	15.40
Greenwich	8.7	11.54	15.52
	8.7	12.0	15.53
Wick	9.6	12.12	15.18
	9.6	12.12	15.19
Valentia	8.50	12.40	16.31
	8.50	12.41	16.32

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy

d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—10000 m.
h hail. i intermittent.
p precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0 = no swell } Calm or slight sea.
1 = mod. swell
2 = heavy swell
3 = no swell } Moderate sea.
4 = mod. swell
5 = heavy swell
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

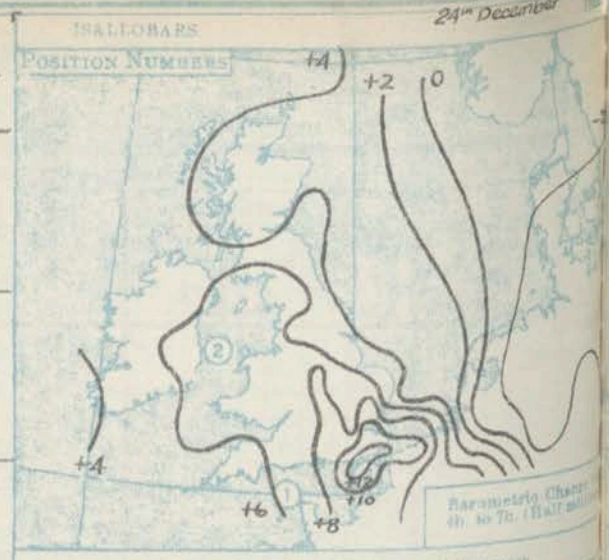
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	3¼ "
6. Moderate.	6¼ "
7. Good.	12¼ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 23rd	WEATHER. 13h.-18h. 23rd	WEATHER. 18h. 23rd. to 1h. 24th	WEATHER. 1h.-7h. 24th	TEMPERATURE. MAX. Day. Th.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun. 23rd. Hours.
Lerwick	oirqf	oirqf	ourq	oirq	42	40 37	•	2	8.00	6	21.00	0.0
Stornoway	c	p	c	oprc	41	38	•	2	14.30	1	24.00	0.0
Wick	b.bcf	cf	cprbc	crrrc	45	42	•	–	–	0.6	21.00	•
Tiree	rirf	Rc	HRrr	c	43	41	37	4	9.00	5	21.00	0.0
Nairn	bc	cbcdq	bcq	cqbc	38	38	•	0.4	16.30	–	–	0.5
Aberdeen	bcmq	corsr	rrrrq	orrrrq	44	42	40	1	16.30	7	21.00	0.3
Malin Head	cRby	bbcc	crbcb	b	43	36	•	2	8.00	0.1	21.00	3.1
Renfrew	cmxrs	orscq	bcorr	orrcm	38	35	33	1	12.30	9	22.00	0.0
Edinburgh (Inchkeith)	bcco	oir	oir	orr	49	37	35	11	13.30	0.6	21.00	0.0
Leuchars	bcbcc	corsrsorr	orrrm	orrrm	39	37	36	4	13.30	9	21.00	0.4
Eskdalemuir	cbcosb	osrirm	om	amorrm	35	33	32	2	11.00	5	3.30	0.0
Tynemouth	bco	oirq	orrg	orr	41	40	37	0.3	13.30	7	21.00	•
Blacksod Point ...	pc	phbc	phc	phbc	47	41	•	2	•	0.5	•	•
Donaghadee	cbcb	bbc	orrbc	bcbx	46	35	•	7	8.00	12	24.00	•
Birr Castle	crbcc	oirrr	cir	bcbxl	43	35	25	1	8.00	0.2	21.00	1.8
Holyhead	rrcrmf	rcm	rrc	bcb	47	42	39	4	8.00	12	21.00	0.0
Liverpool (Bidston) ...	rbc	mc	mor	orrc	42	39	37	0.5	9.00	6	22.00	0.0
Chester (Sealand) ...	asormo	dromo	orrrmo	orrmo	42	38	32	1	9.00	5	22.00	0.0
Harrogate	offs	ofasw	oddr	orroir	37	35	33	1	9.00	11	21.00	0.0
Spurn Head	fmc	cod	odcopd	orr	42	39	•	11	16.30	7	21.00	0.0
Birmingham (Edgbaston)	corr	orr	orr	orrbc	44	37	36	3	9.00	11	22.00	0.0
Cranwell	bofc	mrd	ordm	orm	39	37	37	0.3	14.30	9	22.00	0.0
Gorleston	cbc	orr	orrq	orrq	45	41	39	0.5	14.30	12	21.00	2.2
Valentia (Cahirciveen)	bcperar	cpbcp	cbcpil	cpb	47	41	37	5	9.00	2	21.00	0.9
Roches Point	bcrir	orrcbc	bcorc	cbw	49	40	•	4	12.30	2	21.00	•
Pembroke (St. Ann's H.)	cp	cp	cirbcq	bcprn	50	43	•	1	9.00	13	21.00	0.0
Ross-on-Wye	drcir	dco	rdmrr	rcb	44	41	35	1	9.00	8	21.00	0.0
Leafield	fcoir	rooiff	orr	orrcl	41	38	34	1	9.00	15	21.00	0.0
Winchester (Worthy Dn)	coolm	odromb	orORR	orcpr	46	40	37	2	9.00	11	21.00	0.0
S. Farnborough ...	bfacod	odrrr	orrbc	orrr	45	41	36	0.6	8.00	12	21.00	0.0
London (Kew Obsy.) ...	bfxcr	crm	amrr	orrbcc	43	43	38	0.1	12.30	6	21.00	0.0
Croydon	bcodfm	oddfdm	odrrr	orrc	43	42	39	0.2	11.00	5	21.00	0.0
Shoeburyness	bcod	oid	or	obc	43	40	40	0.1	11.00	4	21.00	1.7
Clacton-on-Sea ...	bc	bcogd	og	ogrc	43	41	40	0.4	14.30	4	1.30	2.3
Felixstowe	bcc	corrm	orrmo	orrm	43	41	40	1	14.30	4	21.00	2.3
Lympne	bprcq	orm	orrdrr	orrrc	43	40	39	0.5	9.00	7	21.00	1.5
Scilly (St. Mary's) ...	bcpc	corcr	crbcbpl	bcpl	50	43	•	8	8.00	3	21.00	0.0
Falmouth (Pendennis)	bcom	coRncl	crbcql	bcrql	50	44	•	3	14.30	0.6	21.00	0.0
Plymouth (Mt. Batten)	ofnc	corr	orrb	b	51	45	43	6	8.00	2	21.00	0.1
Portland Bill	orrc	cp	ORrcbc	bc	51	43	•	1	8.00	16	21.00	•
Southampton (Calshot)	crorrdfm	odrm	orrm	cbc	48	43	41	1	9.00	7	21.00	0.0
Dungeness	cr	crorr	orrorr	orrrcqlc	45	40	•	1	12.30	4	21.00	•
Guernsey	0	oirof	bcpbc	bcprc	51	45	40	2	8.00	4	21.00	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	23rd 10h	Camoria	SW	4	C-	48	50
3	24th 2h	Arundel	W	7	C	50	60

GENERAL INFERENCE.

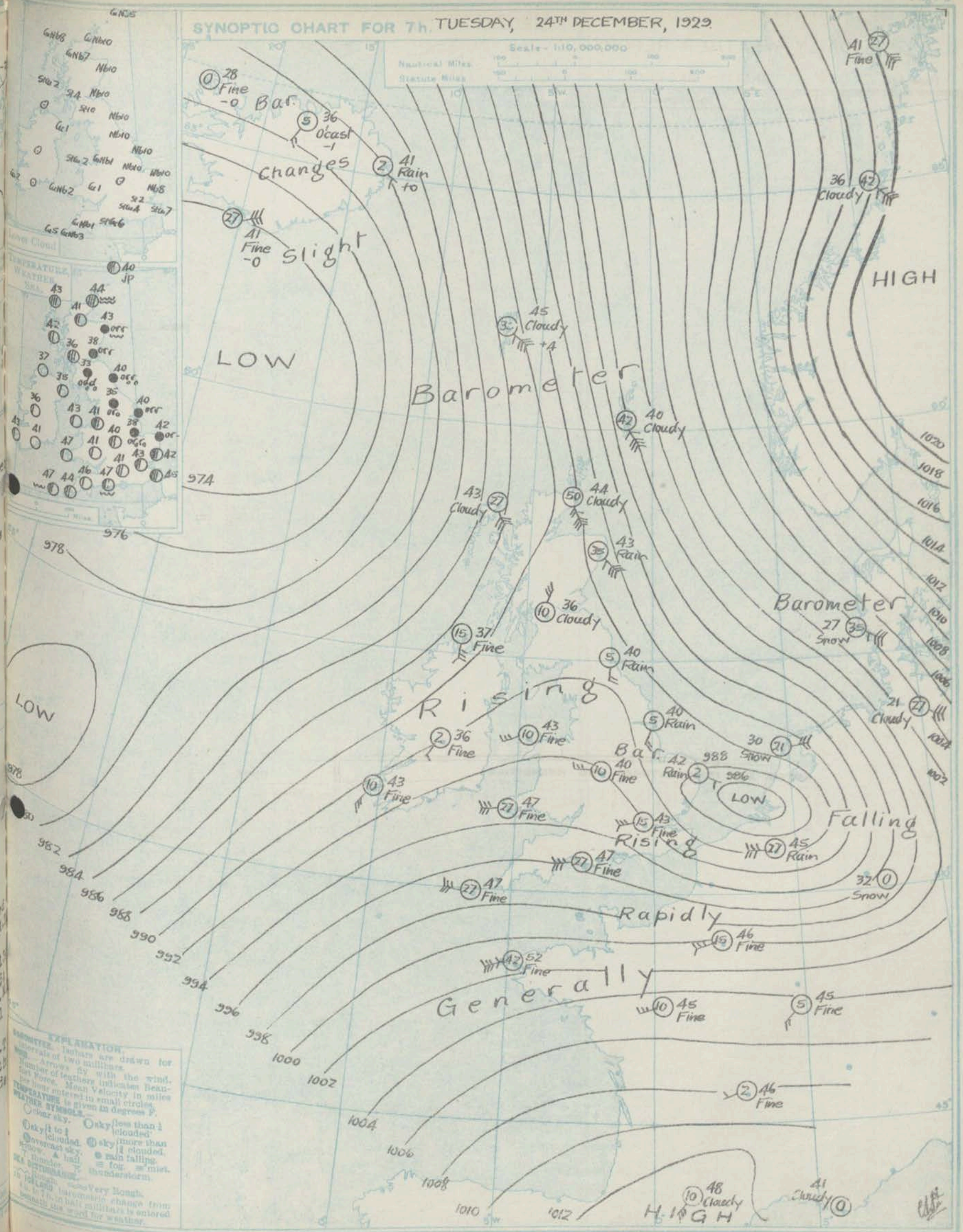
A depression continues off Northwestern Ireland and furthe secondary disturbances are lik to cross the country from the West. Weather will continue unsettled with bright interval in all districts at first but some rain spreading from the West later.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 24th December, 1929.	Further Outlook
1. S.E. England ▼ 2. E. England ▼ 3. E. Midlands	Fresh westerly winds, backing; mainly fair today, probably some rain tomorrow; moderate temperature.	
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Fresh westerly winds, backing southerly; bright intervals at first; cloudy, some rain later; moderate temperature.	Unsettled.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Moderate to fresh southwesterly winds, backing southerly; bright intervals at first; cloudy, some rain later; moderate temperature.	▼ South Cone flying; heiste at 8h. 25m. G.M. yesterday in districts 12, 1 13B, 15 and 16 at 16h. 35m. G. in districts 1 and 2; and at 20h. 10m. G.M. yesterday in th Channel Islands
12. S.W. Scotland & Isle of Man ▼ 13 (A. W. Scotland ▼ / B. N.W. Scotland ▼) 14. Mid-Scotland	Fresh southerly winds, strong at times locally; bright intervals at first; cloudy, some rain, later, with sleet or snow locally on hills; moderate temperature.	
15. N.E. Scotland ▼ 16. Orkneys and Shetlands ▼	Strong southerly winds, some rain or sleet at first; mainly cloudy later; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Fresh southwesterly winds, backing southerly, strong at times; bright intervals early; cloudy, some rain later; moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0900 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount less than 0.1



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

M.O. Form 2370

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Tuesday 24th December.....1929. No. 358...

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 24th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 24th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain 0-8
Lerwick	54	993.6	+2	SSE	8	or.	43	85	7	1500	Nb	10	-	10	997.8	+5	SSE	8	c|p	40	85	7	1500	CuNb	5	Ast	9	•
Stornoway	30	982.5	+2	SE	5	orr	•	•	6	•	•	•	•	10	984.0	+4	SSE	6	c	43	85	7	4000	CuNb	8	-	8	8
Wick	81	986.0	+1	SSE	8	bc	45	85	7	1500	St	5	CiSt	7	982.7	+3	SSE	9	c	44	85	7	1500	CuNb	10	-	10	4
Tiree	28	•	•	•	•	•	•	•	•	•	•	•	•	•	984.8	+4	SW	5	bc	42	85	7	2500	Stcu	2	CiSt	6	•
Nairn	52	•	•	•	•	•	•	•	•	•	•	•	•	•	987.0	•	S	2	bcr	41	85	8	1500	CuNb	7	-	7	7
Aberdeen	87	•	•	•	•	•	•	•	•	•	•	•	•	•	991.3	+4	SE	7	orr	43	85	6	1500	Nb	10	-	10	
Malin Head	81	981.9	+2	S	3	b	37	97	7	4000	Stcu	2	-	2	986.3	+5	S	4	b	37	92	8	-	-	0	-	0	1
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	990.0	+4	NNE	3	c	36	97	6	1500	St	4	Ast	10	•
Edinburgh (Inchkeith)	100	986.6	+1	ESE	4	o	40	85	8	1500	St	10	-	10	989.1	+4	SE	3	orr	38	92	8	800	Nb	10	-	10	1
Leuchars	32	•	•	•	•	•	•	•	•	•	•	•	•	•	989.8	+4	SSE	4	orr	40	97	6	800	Nb	10	-	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	982.8	+6	-	0	ddd	33	97	6	450	St	10	-	10	4
Tynemouth	67	987.4	-1	SSE	4	or.r.	42	92	7	1500	Nb	10	-	10	989.0	+3	S	2	or.r.	40	97	6	1500	Nb	10	-	10	
Blacksod Point ...	18	979.2	+1	W	3	bc	45	65	7	•	CuNb	5	-	5	985.4	+4	W	4	bch(r)	46	65	7	•	CuNb	6	-	6	7
Donaghadee	40	•	•	•	•	•	46	•	•	•	•	•	•	•	988.0	+7	SW	2	b	35	92	7	4000	Cu	2	-	2	1
Birr Castle	176	•	•	•	•	•	•	•	•	•	•	•	•	•	987.7	+6	SW	1	b	36	92	8	-	-	0	Acu	1	•
Holyhead	26	984.7	+1	WSW	3	bc-	44	92	7	2500	St	6	-	6	991.5	+7	WSW	3	b	43	85	7	2500	Stcu	2	Ci	2	1
Liverpool (Bidston) ...	180	•	•	•	•	•	•	•	•	•	•	•	•	•	990.7	+6	W	4	c⊕	41	85	7	1500	CuNb	1	CiSt	9	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	990.7	+7	SW'S	3	bc-	41	85	7	4000	Stcu	2	Ast	5	
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	990.5	+6	-	0	or.	35	97	5	2500	Nb	10	-	10	•
Spurn Head	20	986.3	0	SSE	5	o/d	41	97	7	2500	Nb	10	-	10	989.8	+2	SW'S	2	orr	40	97	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	595	•	•	•	•	•	•	•	•	•	•	•	•	•	992.8	+8	W	3	bc⊕	40	85	8	-	-	0	CiSt	6	•
Cranwell	255	985.8	-3	SE'E	4	ddd	39	97	6	800	Nb	10	-	10	989.9	+5	W	3	or.r.	38	97	6	800	Nb	10	-	10	4
Gorleston	14	987.1	-4	SE'S	6	or.r.	41	97	6	1500	Nb	10	-	10	988.0	+4	SE'E	1	or.	42	92	6	800	Nb	10	-	10	5
Valentia (Cahirciveen)	30	984.8	+3	W	2	bc/PH	43	97	8	•	CuNb	4	-	4	990.4	+3	SW	3	b	43	75	8	2500	Cu	2	-	2	2
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	993.1	+5	NW	2	b	41	92	8	-	-	0	-	0	3
Pembroke (St. Ann's H.)	150	985.9	+4	WSW	6	bc/r	46	92	8	2500	CuNb	4	-	4	992.7	+7	W	6	b-	47	92	8	1500	CuNb	2	-	2	•
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	993.4	+7	WSW	3	b	41	75	8	4000	Cu	1	Ast	1	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	992.8	+8	WSW	3	bc⊕	38	85	7	-	-	0	CiSt	7	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	995.3	+6	WSW	4	cr	41	85	7	1500	CuNb	9	-	9	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	993.8	+9	W	4	bc	41	85	7	1500	Stcu	4	Ast	6	•
London (Kew Obsy.) ...	18	•	•	•	•	•	44	•	•	•	•	•	•	•	992.8	+9	W'S	4	bc-	43	75	7	1500	St	2	Ast	7	•
Croydon	244	982.0	-6	ESE	4	o/r	44	92	6	800	Nb	10	-	10	992.5	+7	W'N	4	c	43	85	7	-	-	0	CiSt	9	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	991.0	+11	WSW	5	bc-	43	85	6	1500	St	7	-	7	3
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	988.2	+8	WNW	4	c	42	92	7	4000	Nb	8	-	8	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	989.3	+4	WNW	5	o/r	42	85	6	800	St	10	-	10	•
Lympne	350	982.8	-7	ESE	4	or.r.	43	97	5	220	Nb	10	-	10	991.3	+10	W'S	6	c	43	85	8	-	-	0	Ast	9	
Scilly (St. Mary's) ...	163	991.7	+5	W'N	7	bc	46	75	8	4000	Cu	4	-	4	997.0	+5	W'N	6	bc	47	85	8	4000	Cu	5	-	5	6
Falmouth (Pendennis)	100	991.1	+7	W	6	bc-	46	55	7	4000	CuNb	3	-	3	997.2	+5	W'S	5	bc-	44	85	7	4000	CuNb	3	-	3	1
Plymouth (Mt. Batten)	62	•	•	•	•	•	•	•	•	•	•	•	•	•	997.0	+5	W	5	b	46	85	8	2500	CuNb	1	-	1	4
Portland Bill	32	986.1	+10	W	6	bc-	49	75	8	1500	Stcu	5	-	5	995.7	+7	W	6	bc	47	85	8	1500	Stcu	6	-	6	6
Southampton (Calshot)	10	986.1	+9	WNW	5	c/r	44	85	7	2500	Stcu	5	Ast	8	994.8	+8	W	4	bc	43	75	7	2500	CuNb	3	-	3	3
Dungeness	20	980.2	-11	S	4	orr	47	97	7	1500	Nb	10	-	10	991.2	+12	W	6	c	45	85	8	2500	Stcu	7	Cicu	9	3
Guernsey (St. Peter Port)	173	993.2	+9	W	5	bc/r	49	85	6	2500	Cu	4	-	4	999.6	+6	W	4	bc	48	75	7	2500	St.Cu	6	-	6	7

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR...23rd....December.....

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 22nd to 9h. 23rd	Temperature. Max. 9h. 23rd	Rainfall.† Night 17h.-9h. 22nd-23rd	Rainfall.† Day 9h.-17h. 23rd	Sunshine. Sunrise to Sunset. 23rd	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)								
			°F.	°F.	mm.	mm.	hr.								
Berwick-on-Tweed	c	pRo	32	40	-	1	0.0	Ilfracombe	co	o	37	49	1	-	0.0
Douglas (I. o. M.) ...	or	c	37	46	2	4	0.0	Bude	poap	poar	32	49	2	1	0.0
Llandudno ...	c	arc	33	43	3	1	1.3	St. Ives	o	r	37	52	12	10	0.0
Colwyn Bay ...	bbapc	abepc	33	44	2	0.3	1.0	Penzance	c	corr	37	51	4	7	0.0
Rhyl	opbc	roc	29	42	2	0.3	1.9	Paignton	rpo	drpmoln	30	50	2	1	0.0
Wallasey	oprx	c	31	42	1	0.3	0.0	Torquay	drbm	canpor	33	51	2	0.2	0.0
Southport	ddo	oc	30	42	Trace	Trace	0.0	Jersey	c	cr	40	50	-	0.3	0.0
Blackpool	or	co	32	41	-	1	0.4	Weymouth	ddo	c	32	50	2	1	0.0
Morecambe ...	o	rebc	30	42	-	1	0.1	Bournemouth ...	dd	dd	31	48	1	2	0.0
Ilkley	oso	ro	30	39	-	4	0.0	Ventnor ...	puor	oum	36	48	Trace	1	0.0
Cleethorpes	mo	o	32	41	0.3	-	0.0	Portsmouth (S'thsea)	or.	od	34	48	0.2	1	0.0
Mablethorpe ...	omfm	comr	35	41	0.3	Trace	0.0	Bognor Regis ...	oid	oid	37	47	0.3	1	0.0
Skegness	ofao	opr	35	41	Trace	Trace	0.0	Littlehampton ...	cour	crc	32	47	-	1	0.0
Aberystwyth ...	bpbc	coir	34	46	1	1	1.6	Worthing	cid	cid	34	47	0.5	1	0.0
Bath	ciro	ciro	31	45	Trace	0.3	0.0	Brighton	bco	oido	35	47	1	1	0.8
Cheltenham‖ ...	oir	oro	32	43	-	3	0.0	Eastbourne‖	bodd	dcrso	37	45	5	1	0.0
Leamington Spa ...	od	od	30	43	-	?1	0.0	Hastings‖	bbco	orord	37	45	1	2	1.7
Lowestoft	bcc	obrar	38	45	0.3	0.3	1.8	Folkestone	bcro	oro	38	44	4	0.3	1.3
Harwich & Dovercourt	bc	rbc	32	44	1	1	3.7	Dover	bcc	coir	38	44	2	1	0.8
Maldon	fbo	od	32	42	0.5	0.3	1.0	Deal	bbc	cor	37	43	4	1	0.9
								Tunbridge Wells ...	bbcor	odd	35	42	0.5	1	1.9
								Ramsgate	bco	oid	35	43	3	0.2	2.0
								Margate	bc	cd	37	44	1	1	1.2
								Southend	bbco	odo	37	43	0.1	Trace	

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* Information not usually received.

† The observations at 1h. G.M.T., from an auxiliary station.

‡ See footnote page 1.

§ For code see page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ⊕ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24870. Wednesday 25th December 1929.

Observations at 18h. G.M.T. 24th

Stations. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1001.2	+1	SSE	8	c	39	75	7	1500	St.Cu.	5	A.St.	10	•
Stornoway	993.1	+2	SSE	6	c/o	44	92	7	1500	nb.	9	-	9	•
Wick	994.5	+5	SSE	9	o/o/o	42	92	7	1500	nb.	10	-	10	•
Tiree	988.7	+3	SSW	5	b	44	85	8	4000	Cu.nb	2	-	2	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	995.8	+3	SE	6	o/r	41	85	6	1500	nb.	10	-	10	2
Malin Head	990.3	+1	S	3	b	42	85	8	4000	Cu.	1	C.Cu.	1	•
Renfrew	994.0	+1	E	1	fe-	38	97	3	1500	St.Cu.	9	-	9	7
Edinburgh (Inchkeith)	993.6	+5	SE	2	c	41	85	5	800	St.	5	A.Cu.	8	•
Leuchars	993.9	+4	SE	2	c	40	92	7	1500	St.	9	A.St.	10	2
Eskdalemuir	995.4	+5	W	1	c-	35	97	6	220	St.	9	-	9	7
Tynemouth	994.0	+4	ENE	2	b/f	40	97	6	1500	Cu.	7	-	7	•
Blacksod Point	986.5	+1	S	3	c	45	75	8	*	-	0	A.St.	10	•
Donaghadee	992.6	+3	SSW	1	b	43	85	7	-	-	0	-	0	•
Birr Castle	989.8	-3	S	1	c	41	85	8	-	-	0	A.St.	10	•
Holyhead	995.6	+2	SSW	3	b	48	85	8	4000	Cu.	1	C.	1	1
Liverpool (Bidston)	996.1	+5	WSW	3	b	43	75	8	-	-	0	-	0	•
Chester (Sealand)	996.0	+4	SW	3	b	48	65	6	-	-	0	-	0	2
Harrogate	996.2	+3	SW	1	c+	40	92	7	1500	nb.	8	-	8	•
Spurn Head	996.5	+3	NW'N	2	bc	40	97	6	2500	St.Cu.	4	-	4	•
Birmingham (Edgbaston)	998.0	+4	SW	3	b	45	75	8	-	-	0	-	0	2
Cranwell	997.4	+6	W	4	b-	43	85	6	4000	Cu.	1	-	1	2
Gorleston	996.7	+8	NW'N	2	o	41	97	6	2500	nb.	10	-	10	•
Valentia (Cahirciveen)	984.4	-14	SE'E	6	c/o/o	48	85	7	1500	St.	7	A.St.	10	2
Roches Point	989.8	-7	S	4	c	48	85	8	2500	St.Cu.	10	-	10	•
Pembroke (St. Ann's H.)	995.6	0	SSW	4	c+	49	97	7	1500	Cu.nb	3	A.St.	8	•
Ross-on-Wye	997.8	+4	WSW	3	b	43	65	7	4000	Cu.	1	-	1	2
Leafield	998.1	+6	WSW	3	b	46	75	7	-	-	0	-	0	2
Winchester (Worthy Dn.)	1000.2	+3	SW	3	b	48	65	8	4000	Cu.	1	-	1	2
S. Farnborough	999.4	+4	W	3	b	50	65	7	2500	Cu.	1	-	1	2
London (Kew Obsy.)	999.3	+6	WSW	3	b	46	75	5	-	-	0	-	0	2
Croydon	999.6	+6	W'N	4	b+	47	75	6	1500	St.	1	-	1	2
Shoeburyness	998.9	+6	W	4	b	46	85	7	-	-	0	A.St.	1	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	997.8	+7	W	5	b-	46	75	8	4000	St.Cu.	2	-	2	1
Lympne	999.1	+5	W'N	3	b	46	65	8	-	-	0	-	0	2
Scilly (St. Mary's)	994.6	+5	S	5	c	50	92	6	4000	St.Cu.	10	-	10	•
Falmouth (Pendennis)	997.2	-3	SSE	4	c	49	92	7	4000	St.Cu.	10	-	10	•
Plymouth (Mt. Batten)	998.4	-2	SSW	3	c+	49	85	8	4000	nb.	6	A.St.	10	2
Portland Bill	999.3	+3	WSW	4	bc	51	75	8	2500	St.Cu.	4	-	4	•
Southampton (Calshot)	1000.5	+3	SW	3	b	50	75	8	4000	Cu.	1	-	1	2
Dungeness	999.5	+6	W	4	b-	48	75	8	-	-	0	-	0	•
Guernsey (St. Peter Port)	1002.4	0	SW	2	c+	50	85	6	4000	St.Cu.	8	-	8	•

Observations at 18h. G.M.T. 24th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1001.7	+1	SSE	8	o/o(o)	40	65	7	1500	nb.	10	-	10	•
Stornoway	989.4	+1	SE	5	bc-	43	92	6	2500	nb.	6	-	6	4
Wick	995.6	+1	SSE	9	o/o/o	41	97	7	1500	nb	10	-	10	8
Tiree	986.9	-2	SSE	6	c	42	85	8	2500	St.Cu.	7	C.St.	10	6
Nairn	992.9	•	-	0	bc-	35	85	8	2500	Cu.	4	-	4	•
Aberdeen	997.1	+1	SE	7	o/o/o	40	85	6	1500	nb	10	-	10	7
Malin Head	984.9	-8	SE	5	c	41	85	7	4000	St.Cu.	9	A.St.	10	2
Renfrew	993.1	-2	E	3	mnb	38	92	4	-	-	0	-	0	•
Edinburgh (Inchkeith)	994.6	0	SE	2	bc	39	85	8	1500	St.	2	A.Cu.	3	0
Leuchars	995.0	+1	SE	3	bc-	40	85	7	4000	St.Cu.	4	-	4	•
Eskdalemuir	994.6	-1	E'S	2	bc-	35	97	6	800	St.	4	-	4	•
Tynemouth	995.8	+2	S	2	bc/m	41	92	7	1500	Cu.	6	-	6	4
Blacksod Point	977.7	-6	E	6	oR-	44	75	7	•	Nb.	10	-	10	7
Donaghadee	~~990.7~~	-4	SW	1	b	46	75	7	-	-	0	-	0	0
Birr Castle	975.6	-16	SE	7	o+	45	85	7	2500	nb.	10	-	10	•
Holyhead	991.1	-6	SE	4	c/o	45	85	7	2500	nb.	9	-	9	2
Liverpool (Bidston)	993.8	-2	SE'S	4	c+	41	85	6	-	-	0	C.St.	10	•
Chester (Sealand)	994.1	-3	SE	4	c+	42	85	6	-	-	0	A.St.	10	•
Harrogate	997.1	0	SE	2	fo	36	97	2	150	St.	10	-	10	•
Spurn Head	998.0	0	SSE	2	bc+	39	97	5	800	St.	5	-	5	4
Birmingham (Edgbaston)	997.4	-1	SSE	3	c+	41	85	6	-	-	0	A.St.	10	•
Cranwell	998.3	+1	S'E	2	b	33	92	5	4000	St.Cu.	1	-	1	•
Gorleston	1000.0	+2	-	0	c	40	92	6	-	-	0	A.St.	10	0
Valentia (Cahirciveen)	965.8	-15	S'E	7	b/f	50	75	7	1500	St.	6	-	6	7
Roches Point	976.4	-22	SEE	8	o+r	48	97	6	800	nb.	10	-	10	6
Pembroke (St. Ann's H.)	987.1	-5	SSE	6	o+r	48	97	7	800	nb.	10	-	10	4
Ross-on-Wye	994.8	-3	SSE	3	c	45	75	6	-	-	0	A.St.	10	•
Leafield	997.1	-2	SE'S	4	c	40	85	8	4000	St.Cu.	9	-	9	•
Winchester (Worthy Dn.)	998.6	-3	SSE	4	c	46	85	7	-	-	0	A.St.	10	•
S. Farnborough	999.2	-1	SSE	3	c+	42	85	7	-	-	0	C.St.	10	•
London (Kew Obsy.)	999.9	0	S'E	2	c+	42	85	5	-	-	0	C.	8	•
Croydon	1000.1	0	S'E	3	c+	42	85	6	-	-	0	A.St.	10	•
Shoeburyness	1001.5	+1	SW	1	b	38	97	6	-	-	0	A.St.	1	•
Clacton-on-Sea	1000.2	+2	W	3	bc	42	85	6	2500	Cu.	3	-	3	2
Felixstowe	1001.0	+4	SSW	2	b	40	85	7	4000	St.Cu.	2	-	2	3
Lympne	1001.6	+2	WSW	2	bc+	40	85	6	-	-	0	C.St.	3	•
Scilly (St. Mary's)	998.8	-15	SE	9	o/r	49	97	6	2500	nb.	10	-	10	7
Falmouth (Pendennis)	998.9	-11	S	9	o/r	50	97	6	2500	nb.	10	-	10	6
Plymouth (Mt. Batten)	992.0	-8	SSE	6	o+r	49	92	7	800	nb.	10	-	10	5
Portland Bill	995.2	-6	SSE	7	q/b	51	85	8	1500	St.	10	-	10	6
Southampton (Calshot)	998.6	-4	SE'S	5	c	48	85	7	2500	St.Cu.	3	A.St.	10	0
Dungeness	1001.4	+2	WSW	2	bc+	46	85	8	-	-	0	C.St.	6	3
Guernsey (St. Peter Port)	1007.2	-6	S	5	o/R	50	92	5	1500	nb	10	-	10	7

London Observations.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday)	Humidity. 18h. G.M.T. % (Yesterday)	Humidity. 9h. G.M.T. % (To-day)	Sea.
Kew	18	cbcb	bcmo	cmrg	47	41	29	-	5	5.9	*	*	7
Croydon	244	cbcb	bbcm	conkw	48	42	38	-	13	6.0	*	*	
Greenwich (Royal Obsy.)	149	b	bc	cdrgkc	46	44	27	-	11	5.0	73	73	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.4	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	39	34	4		5.2	61	75	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	4.9	*	*	*
Camden Square	110	b	bbc	*	44	44	*	-	5	*	*	85	*
Kensington Palace	80	bcz	bcz	*	48	43	37	-	5	*	(At 18h.) 87	77	*
Hampstead Observatory	450	*	*	*						5.4			*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hr. ended 7h. G.M.T. 25th

South Kensington

Max.	Time.	Min.	Time.
1.0	20h. 24h.	0.3	1.7h. 25th

Kew Observatory

Max.	Time.	Min.	Time.
0.3	15h. 24th	0.1	04-7h. 25th

Pole Star Record at Greenwich Obsy.

Exposure from 24th ... 17 h. ... m. to 25th ... 7 h. ... m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0	0.15	2
δ Ursae Minoris	14.0	Nil	Nil

Table showing the Greenwich times of sunrise, noon, and sunset.

25th December, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 / 8.7	11.53 / 11.54	15.40 / 15.41
Greenwich	8.7 / 8.6	12.0 / 12.0	15.53 / 15.53
Wick	9.4 / 9.4	12.12 / 12.13	15.40 / 15.20
Valentia	8.50 / 8.51	12.41 / 12.41	16.32 / 16.32

Beaufort notation of weather.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r_o = slight rain. rr = continuous rain.

Symbols.
< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

Sea Disturbance.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

Code for state of ground.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

§ Telegraphic Code for Surface Visibility.

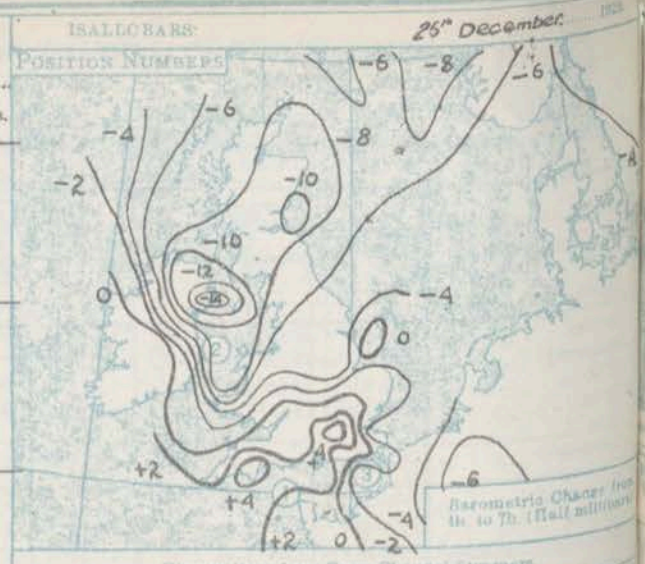
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 24th	Weather. 18h.-18h. 24th	Weather. 18h. 24th to 1h. 25th	Weather. 1h.-7h. 25th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 24th Hours.
Lerwick	ocrcf	ocrrf	cirrr	cirrr	40	35	•	2	8.00	02	21.00	0.0
Stornoway	c	c	cpro	cpcc	44	40	•	0.1	11.00	0.4	24.00	0.0
Wick	corr	orr	oir	Rr rr	45	38	•	3	8.00	4	21.00	•
Tiree	bc	bbcc	cr	c	45	38	37	-	-	2		3.8
Nairn	bcobc	bcx	bcqc	cq	42	35	•	-	-	-	-	1.4
Aberdeen	orrq	orrrqf	orrrq	orrsrq	43	36	35	8	8.00	12	21.00	0.0
Malin Head	b	bbcc		crrbccq	42	41	•	-	-	5	22.00	3.8
Renfrew	offc	cffbcm	bccmrs	orrqm	40	36	34	-	-	7	24.00	1.3
Edinburgh (Inchkeith)	amrrm	cbc	orr	orrsir	42	36	34	2	8.00	11	1.30	0.8
Leuchars	crrc	cbc	bcbcc	CRRddq	40	36	36	2	8.00	10	1.30	0.0
Eskdalemuir	omom	cobcm	omorm	orrmc	36	34	32	0.3	8.00	9	24.00	0.0
Tynemouth	orrff	bcmm	bcoiRq	oiRq	41	40	37	3	8.00	12	24.00	•
Blacksod Point ...	c	cr		ilphq	47	42	•	1	•	14	•	•
Donaghadee	b	b	bcir	cir	47	45	•	-	-	8	22.00	•
Birr Castle	bbco	orrq	orrqcing	cirq	45	43	39	3	14.30	12	21.00	2.1
Holyhead	bcbmb	bcir	rrrrrq	c	48	45	42	Tr.	17.30	7	21.00	4.6
Liverpool (Bidston) ...	cbcb	bbco	orrq	orrb	43	41	39	-	-	2	21.00	5.3
Chester (Sealand) ...	bcbm	bcm	cr RR	cRbc	48	42	36	-	-	9	21.00	5.4
Harrogate	obbcc	cbcof	ofocrr	ocrrc	42	36	33	-	-	11	22.00	3.0
Spurn Head	orcbc	bcbcz	corr	corrc	41	39	•	3	8.00	14	24.00	1.7
Birmingham (Edgbaston)	bcb	bbc	corr	orc	45	40	38	-	-	9	21.00	5.7
Cranwell	omb	bm		ORc	44	31	29	-	-	15	22.00	4.4
Gorleston	oir	ocm	bcorrq	orrq	43	38	34	3	8.00	7	24.00	0.0
Valentia (Cahirciveen)	cir	cirRbcf	bcbcirr	circp	52	44	43	18	9.00	8	21.00	0.0
Roches Point	bbcc	corrf					•	7	13.30			•
Pembroke (St. Ann's H.)	bcc	orrq	orrcq	bcpq	50	44	•	1	15.30	5	21.00	3.0
Ross-on-Wye	bcb	bbcc	rorrqR	rbc	49	45	41	-	-	20	21.00	5.5
Leafield	bcb	bbcc	orr	orr	46	39	38	-	-	8	21.00	5.6
Winchester (Worthy Dn.)	cprbcb	bbcc	corr	orrcqbc	49	44	41	0.2	8.00	17	21.00	5.8
S. Farnborough ...	bcb	bbcc	corr	orrbc	50	42	39	-	-	10	21.00	6.0
London (Kew Obsy.) ...	cbcb	bcm	cmrq	cmrq	47	41	29	-	-	5	21.00	5.9
Croydon	cbcbz	bbcm		corrRpr	48	42	38	-	-	13	6.30	6.0
Shoeburyness	bcbm	bm	bmorr	oqir	47	37	32	-	-	2	22.00	5.1
Clacton-on-Sea ...	cbc	bcm	bcm	bcor	46	41	41	-	-	3	2.30	5.7
Felixstowe	ozcbc	b	borr	orrm	46	40	37	-	-	5	22.00	5.5
Lympne	cb	bbcm		bccqmcpr	48	39	30	-	-	7	22.00	5.3
Scilly (St. Mary's) ...	c	orrm	orcbc	bcrp	51	44	•	7	13.30	2	21.00	0.9
Falmouth (Pendennis)	bcbc	corrqm	orrmbc	cbcq	51	41	•	4	14.30	9	21.00	1.7
Plymouth (Mt. Batten)	bc	corrqm	orrqmc	orrqbcpc	51	47	43	3	14.30	12	21.00	3.0
Portland Bill	bc	bcco	oRRc	oRrPc	51	48	•	-	-	8	21.00	•
Southampton (Calshot)	bbcb	bbcc		orrcoRRq	51	45	43	-	-	8	21.00	5.6
Dungeness	cgbcb	bbc		bcbrrirc	48	42	•	-	-	5	21.00	•
Guernsey	cbcb	corr	cprr	orqco	52	47	42	1	17.30	19	21.00	3.4

† For code see page 1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	24th 10h	Scotia	SSW	4	bc	46	50
1	12h	St. Helier	W	4	bc	52	52
3	25th 2h	Dieppe	SW	7	c	52	50

GENERAL INFERENCE.

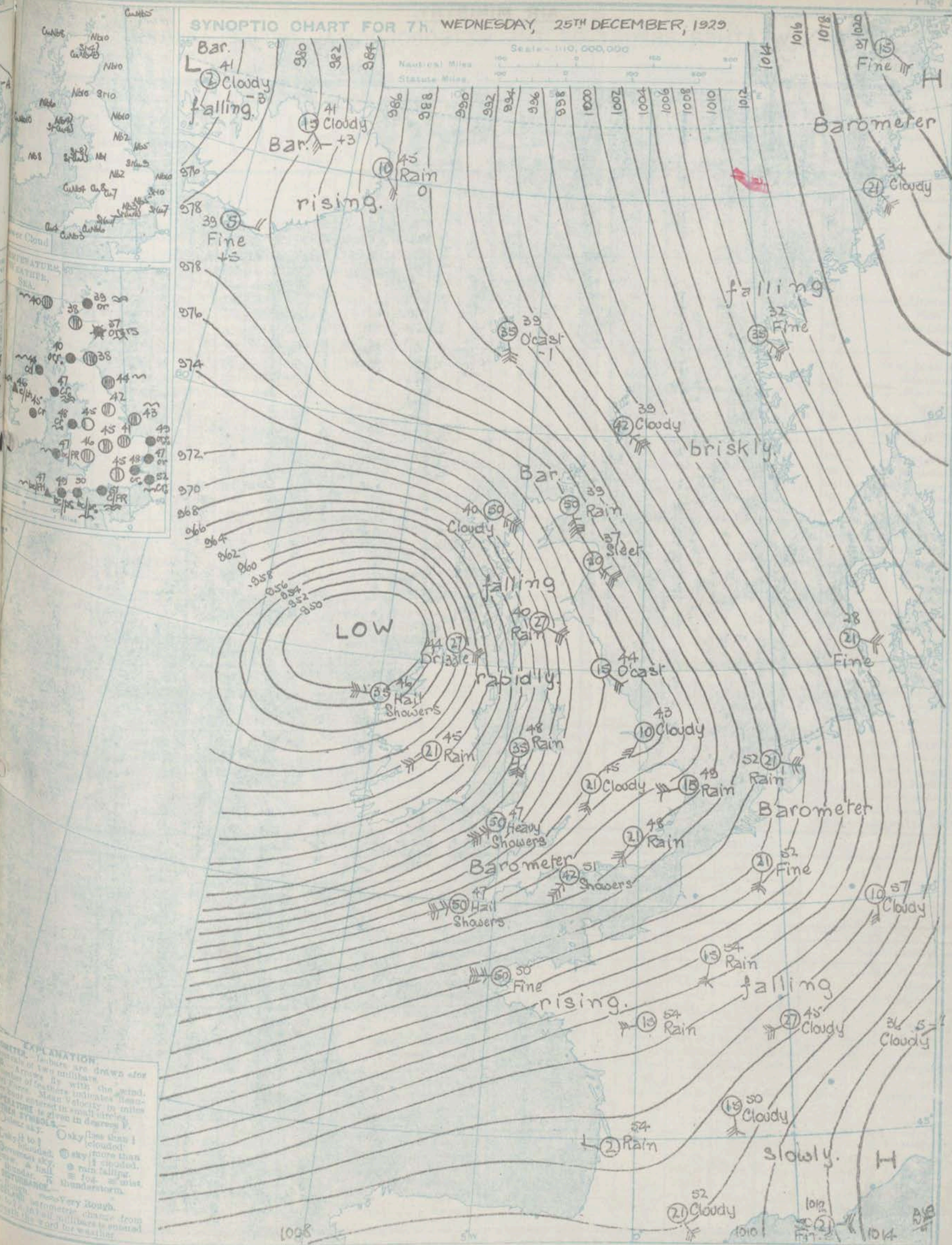
A very deep depression centred over N.W. Ireland will move slowly north-northeast, and be accompanied by gales in many districts, severe locally round the coasts. After some further rain in Scotland at first, weather will become generally showery.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 25th December, 1929.

Districts.	Forecast	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind S.W, severe gale locally on coasts, strong to a gale inland. Showers of rain and hail, heavy at times, perhaps with thunder; bright intervals; rather mild, becoming rather cooler.	Considerable bright periods especially in the southern half of the country.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southeast strong to gale at times; veering later, dull, with occasional rain at first; then showery with hail locally and perhaps local thunder; moderate temperature.	S. Cone still flying in districts 2, 13, 15 and 16. S. Cone hoisted yesterday at 14h.35m in districts 1, 5, 6, 7, 8, 12, 17, 18, 19 and 20; and at 17h.40m. in district 10 and 11.
13. (A) W. Scotland (B) N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Severe southeast gale; dull, rain or sleet; snow on higher hills at first; improving tomorrow; moderate temperature to rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly, strong to a gale at times; heavy showers of rain and hail with local thunder; bright intervals; moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1200 G.M.T. C. C. KIMPSON, M.B., D.Sc., F.R.S., Dir.

Trace = rain not taken, but amount less than 0.1 mm.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Wednesday. 25th. December.....1929. No. 352...

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 25th. Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun 0-9
Lerwick	54	1000.1	-2	SE	8	c	37	65	7	1500	StCu	4	ASt	8	•
Stornoway	30						•	•		•	•	•	•		
Wick	81	991.1	-7	SSE	9	or	41	97	7	1500	Nb	10	–	10	7
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	8
Nairn	83	•	•	•	•	•	•	•	•	•	•	•	•	•	8
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51														7
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Edinburgh (Inchkeith)	199	994.1	-10	SE	5	ORR	39	92	8	800	Nb	10	–	10	•
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	10
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Tynemouth	67	985.7	-9	SE	8	OR	40	97	6	1500	Nb	10	–	10	•
Blacksod Point ...	48	996.1		W	6	c	44	65	7	•	–	0	ASt	10	8
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	2
Birr Castle	179	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead ...	20														6
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	19	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	39	985.9	-18	SE	8	OR	42	97	6	2500	Nb	10	–	10	8
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Cranwell	230														•
Gorleston	14	994.4	-8	SSE	6	OR	42	97	6	1500	Nb	10	–	10	•
Valentia (Cahirciveen)P	30									•					4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	976.8	-1	SSW	6	C-	51	75	7	1500	CuNb	4	ASt	8	6
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Da.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	48	•	•	•	•	•	•	•	•
Croydon	244														•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	4
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Lympne	350														•
Scilly (St. Mary's) ...	163	980.2	+1	SW	7	bc	51	75	7	4000	StCu	4	–	4	7
Falmouth (Pendennis)	200	982.5	+2	WSW	7	C	51	88	7	4000	StCu	10	–	10	4
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	5
Portland Bill	52	983.9	-9	S	8	ORR	53	85	6	800	St	10	–	10	6
Southampton (Calshot)	10														5
Dungeness	26														3
Guernsey (St. Peter Port)	173	988.6	-7	SSW	2	ORR	53	92	5	1000	NB	10	–	10	6

Stations.	Observations at 7h. G.M.T. 25th. Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun 0-9
Lerwick	992.6	-6	SE	8	c/p	39	65	7	1500	CuNb	5	ASt	9	•
Stornoway	972.7	-7	ESE	9	C	40	85	7	4000	CuNb	8	–	8	7
Wick	982.6	-9	SSE	10	or	39	92	7	1500	Nb	10	–	10	8
Tiree	961.7	-11	SE'E	8	o/(r)	42	85	6	2500	Nb.	10	–	10	8
Nairn	975.3	•	SSE	8	C+	38	85	8	1500	St	8	–	8	•
Aberdeen	981.3	-9	SE	8	orsrs	37	97	6	1500	Nb	10	–	10	7
Malin Head	955.3	-10	ESE	6	cd	44	92	6	1500	Nb	6	ASt	9	6
Renfrew	971.3	-9	ESE	6	orsrs	40	92	6	1500	Nb	10	–	10	•
Edinburgh (Inchkeith)	975.0	-8	ESE	5	o	38	97	7	1500	St	10	–	10	3
Leuchars	976.7	-11	SE'E	7	od.d.	39	85	7	1500	Nb	10	–	10	•
Eskdalemuir	973.5	-8	SE	5	c	39	85	7	1500	St.Cu	8	–	8	•
Tynemouth	977.2	-6	SE	4	o/p	44	92	6	1500	Nb	10	–	10	7
Blacksod Point ...	950.9	0	W	7	c/PH	46	85	7	•	CuNb	10	–	10	8
Donaghadee	962.7	-14	SW	4	crs	47	75	7	4000	Nb	8	–	8	2
Birr Castle	961.1	+1	SW	5	cr	45	85	7	2500	Nb	8	ASt	10	•
Holyhead ...	970.0	-9	S'W	7	crs	48	75	6	1500	St	9	–	9	6
Liverpool (Bidston) ...	974.8	-5	S	5	b	45	75	8	2500	Nb	1	–	1	•
Chester (Sealand) ...	975.6	-4	S'E	4	bc	45	85	7	800	St	7	–	7	•
Harrogate	977.6	-2	S	2	C-	42	92	6	4000	Nb	2	ASt	8	•
Spurn Head	979.7	0	SW'S	3	C-	43	97	7	4000	Nb	5	Acu	8	6
Birmingham (Edgbaston)	980.4	-2	SSW	5	C-	45	75	8	1500	Nb	2	ASt	9	•
Cranwell	980.0	-5	S	3	C+	41	85	7	4000	Scu	9	–	9	•
Gorleston	984.2	-2	W	4	orsrs	49	97	6	800	Nb	10	–	10	4
Valentia (Cahirciveen)P	968.7	+16	WSW	8	crs	47	75	6	1500	St	8	–	8	4
Roches Point	973.4	-2	SW	9	bc/PR	47	97	7	1500	CuNb	4	ASt	7	6
Pembroke (St. Ann's H.)	981.0	0	SW	5	c	46	75	8	2500	Cu	8	ASt	9	•
Ross-on-Wye	982.7	+2	SW	4	bc/r	43	85	8	4000	Cu	7	–	7	•
Leafield	986.2	+1	SSW	4	bc+	44	85	7	4000	Scu	3	Acu	7	•
Winchester (Worthy Da.)	985.4	+2	SW'S	4	bc/r	45	85	7	1500	Scu	7	–	7	•
S. Farnborough ...	985.1	+4	SW	5	crs	48	85	6	1500	Nb	5	ASt	10	•
London (Kew Obsy.) ...	986.3	+2	WSW	5	c/PR	48	85	7	800	St	9	–	9	•
Croydon	986.8	-3	WSW	6	cr	51	85	7	1500	St	8	ASt	9	•
Shoeburyness	984.0	-3	SW	6	or	47	92	6	2500	St	10	–	10	4
Clacton-on-Sea ...	986.1	-1	SW'S	6	o/r	48	85	6	1500	St	10	–	10	3
Felixstowe	987.2	0	SW'S	7	crs	50	85	7	2500	Nb	8	ASt	10	•
Lympne	982.6	+3	WSW	9	bc/PH	47	75	7	4000	Cu	4	–	4	7
Scilly (St. Mary's) ...	984.0	+2	W	9	bc/pr	49	65	7	4000	CuNb	3	Acu	5	4
Falmouth (Pendennis)	984.9	+4	SW	9	bc/pr	50	65	7	2500	CuNb	6	–	8	5
Plymouth (Mt. Batten)	984.0	+2	SW'W	8	c/PR	51	75	8	1500	Scu	7	ASt	8	3
Portland Bill	986.5	+3	SW	5	c/r	48	85	8	1500	St	9	–	9	6
Southampton (Calshot)	987.1	-3	SW	7	c/r	52	85	8	2500	Scu	7	ASt	10	7
Dungeness	991.6	+7	WSW	4	bc/r	48	75	6	4000	StCu	6	–	6	•
Guernsey (St. Peter Port)														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 24th. December.....

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-Prd to 9h. 24th. °F.	Temperature. Max. 9h.-17h. 24th. °F.	Rainfall.† Night 17h.-9h. 23rd.-24th. mm.	Rainfall.† Day 9h.-17h. 24th. mm.	Sunshine. Sunrise to Sunset. 24th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	Ro	34	40	7	1	0.0
Douglas (I. o. M.) ...	bbc	c	39	46	12	–	4.8
Llandudno ...	b	bco	38	48	2	–	4.9
Colwyn Bay ...	b	b	39	47	3	–	5.2
Rhyl	b	bbc	36	47	5	–	5.3
Wallasey	b	bbcc	35	48	6	–	5.1
Southport	bpbbc	bbco	* 40	46	6	0.1	5.2
Blackpool	orcbc	bcco	37	47	7	–	4.1
Morecambe ...	cbc	cbbcc	35	46	8	–	3.6
Ilkley	c	c	32	42	8	–	1.2
Cleethorpes	froc	c	35	40	10	0.1	1.2
Mablethorpe ...	orbcm	bbcm	35	41	12	0.5	1.0
Skegness	orobc	bco	35	42	Trace	Trace	3.5
Aberystwyth ...	orb	co	41	48	11	–	3.6
Bath	bbc	c	40	49	11	–	5.2
Cheltenham ...	b	bbc	37	52	12	–	5.3
Leamington Spa ...	bc	bc	36	47	11	–	5.6
Lowestoft	cbor	cm	39	41	10	0.6	0.0
Harwich & Dovercourt	bcb	b	40	41	4	–	6.0
Maldon	o	b	40	47	7	–	6.1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	cbcb	bbcc	44	49	13	–	3.6
Bude	bc	cor	44	51	14	1	3.2
St. Ives							1.5
Penzance	bco	orrq	44	52	2	6	3.7
Paignton	Rbbbc	ocpbq	43	52	10	Trace	4.0
Torquay	bnbcw	orq	44	52	9	Trace	3.3
Jersey	bc	c	44	52	5	–	4.6
Weymouth	b	bc	44	54	?	–	5.4
Bournemouth ...	b	bco	41	49	9	–	4.9
Ventnor ...	orb	bow	43	50	4	–	5.7
Portsmouth (S'thsea)	b	bcom	43	49	7	–	5.5
Bognor Regis ...	b	b	40	50	4	–	5.8
Littlehampton ...	bc	bcc	41	49	5	–	5.9
Worthing	b	bbc	42	50	5	–	5.9
Brighton	b	bbcc	43	48	6	–	6.1
Eastbourne	b	b	43	50	6	–	6.2
Hastings‖	b	bbcb	42	49	6	–	5.4
Folkestone	bbc	bcm	39	48	6	–	5.7
Dover	b	b	39	48	6	–	6.1
Deal	b	b	38	47	8	–	6.2
Tunbridge Wells ...	b	b	38	48	6	–	5.4
Ramsgate	bcb	b	40	47	5	–	5.3
Margate	bc	bc	39	46	5	–	4.3
Southend	b	o	40	46	5	–	

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* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‖ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24871 Thursday 26th December 1929.

Observations at 13h. G.M.T. 25th

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of Ground.
Lerwick	986.1	-9	SE	10	0.5.5	34	97	6	1500	nb.	10	-	10	•
Stornoway	962.9	-3	E	7	0/p/r	h0	97	7	1500	nb.	10	-	10	•
Wick	975.7	-8	ESE	8	0r	h0	97	7	1500	nb.	10	-	10	•
Tiree	958.2	-3	SSE	5	0RR	h5	97	6	1500	nb.	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	971.1	-9	SSE	7	c	h3	92	6	1500	nb	8	A.St.	10	2
Malin Head	956.4	+6	SW/W	5	c/d	h5	92	6	800	nb.	7	A.St.	9	•
Renfrew	964.2	-6	SE	h	c/r	h4	92	7	1500	nb.	9	-	9	2
Edinburgh (Inchkeith)	967.7	-7	E	h	c	h2	85	8	5700	sb.Cu	6	A.Cu.	8	•
Leuchars	967.9	-11	SE/S	h	c/r	h4	85	7	800	nb.	7	A.St	10	2
Kinloss	966.9	-5	SSW	6	0r	h2	92	6	1500	St.	10	-	10	2
Tynemouth	972.2	-4	SSW	h	c/p/b	h5	85	6	1500	nb.	9	-	9	•
Blacksod Point	967.7	+14	W	7	b/p/R	h8	75	7	*	Cu.Nb	7	-	7	•
Donaghadee	961.4	-1	SSW	3	c/p/r	h5	85	7	h000	St.Cu	8	-	8	•
Birr Castle	972.2	+11	WSW	h	0r	h4	85	7	2500	nb.	10	-	10	•
Holyhead	972.4	+6	SW	7	c/r	h8	85	6	1500	St.	9	A.Cu.	9	2
Liverpool (Bidston)	973.6	0	SW/W	6	0r	h8	65	6	1500	nb.	10	-	10	•
Chester (Sealand)	974.4	-1	SW/S	7	b/p/r	51	65	7	1500	Cu.	7	-	7	2
Harrogate	975.1	-3	SSW	6	c/r	h5	75	7	2500	nb.	8	A.St.	10	•
Spurn Head	978.9	-1	SW/W	8	c	h7	75	7	h000	St.Cu	9	-	9	•
Birmingham (Edgbaston)	983.4	0	SSW	6	b/c-	h5	75	7	2000	nb.	6	-	6	2
Cranwell	981.0	-1	SSW	8	b/p/r	h7	65	8	2500	Cu.	3	-	3	1
Gorleston	987.7	0	SW/S	6	b	h8	85	7	-	-	0	-	0	•
Valentia (Cahirciveen)	984.0	+15	W	7	c/p/r	h7	75	6	1500	St	8	-	8	2
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	979.8	+4	SW	9	c/p/r	h9	97	7	1500	Cu.Nb	8	-	8	•
Ross-on-Wye	980.3	+2	SW	7	c/p	h7	75	7	2500	nb.	9	-	9	2
Leafield	983.6	+2	SW/S	7	c/p/r	h6	65	8	h000	Cu.	8	-	8	2
Winchester (Worthy Dn.)	990.5	+4	SW/S	6	c	h9	65	8	2500	Cu.	9	-	9	2
S. Farnborough	990.7	+3	SW/W	7	c+	h9	65	7	1500	St.Cu.	9	-	9	2
London (Kew Obsy.)	989.7	+2	SW	6	b/c+	50	65	7	2500	Cu.	6	-	6	2
Croydon	990.5	+3	SW/W	6	c	h9	65	7	1500	St.Cu.	9	-	9	2
Shoeburyness	991.1	+3	SW	6	b/c	50	75	7	2500	Cu.	h	-	h	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	990.8	+3	SSW	7	b	h8	65	8	-	-	0	A.Cu.	1	2
Lympne	993.5	+4	SW	6	c/PW	h2	85	8	2500	Cu.Nb	8	-	8	2
Scilly (St. Mary's)	991.0	+8	W	7	c/PR	h5	92	6	h000	Cu.Nb	6	C.St	9	•
Falmouth (Pendennis)	990.0	+5	W	8	c/PR	50	65	7	h000	Cu.Nb	6	A.St.	9	•
Plymouth (Mt. Batten)	989.9	+3	SW	8	b/p/r	51	75	7	500	Cu.Nb	7	Cu.	7	2
Portland Bill	989.6	+4	WSW	8	b/c-	51	65	8	2500	St.Cu.	h	A.Cu.	5	•
Southampton (Calshot)	991.5	+3	SW/W	7	b/c	51	65	7	2500	Cu.Nb	5	-	5	2
Dungeness	992.6	+4	SW	8	c/p/r	h7	85	8	1500	Cu.Nb	8	-	8	•
Guernsey (St. Peter Port)	997.0	+4	SW	5	b/p/R	51	75	6	2500	St.Cu	6	-	6	•

Observations at 18h. G.M.T. 25th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Seq. 0-9
Lerwick	984.6	-5	SE	10	0.5.5	35	92	6	1500	nb.	10	-	10	•
Stornoway	969.7	+3	E	6	0/p/r	h3	97	6	1500	nb.	10	-	10	5
Wick	971.4	-3	ESE	8	0r	h3	97	7	1500	nb.	10	-	10	8
Tiree	966.5	+2	NEN	h	0r/r	h4	85	6	1500	nb.	10	-	10	5
Nairn	967.2	*	SE	2	c	h0	85	8	1500	Cu.Nb	8	-	8	•
Aberdeen	967.6	-3	SSE	h	c/r	h5	92	6	1500	nb.	10	A.St.	10	7
Malin Head	962.0	+6	WNW	7	c/r	h5	97	6	2500	nb.	6	A.St.	10	7
Renfrew	963.9	+1	SW	h	0r/r	h5	92	6	1500	nb.	10	-	10	•
Edinburgh (Inchkeith)	965.8	-1	WSW	h	b/c	h5	85	8	1500	St.	3	-	3	1
Leuchars	966.0	-1	SE	2	c/r	h3	92	7	1500	St.Cu	5	A.St.	9	•
Kinloss	967.8	+4	SW	6	0/r	h2	85	6	1500	nb.	10	-	10	•
Tynemouth	971.5	0	SW	6	0r	h6	85	6	1500	nb.	10	-	10	6
Blacksod Point	980.3	+9	WNW	8	0R	h6	85	7	*	nb.	10	-	10	8
Donaghadee	968.5	+8	SW	h	c/p/r	h6	85	7	h000	nb.	8	-	8	2
Birr Castle	982.8	+4	WNW	6	c/r	h5	75	7	2500	nb.	7	A.St.	10	•
Holyhead	980.3	+11	SW/W	8	c	h8	75	6	800	St.	9	-	9	6
Liverpool (Bidston)	979.2	+7	WSW	7	b/c-	h7	65	8	2500	Cu.Nb	6	-	6	•
Chester (Sealand)	980.6	+8	SW/W	5	b/p/b	h7	65	7	2500	Cu.Nb	3	-	3	•
Harrogate	978.6	+3	SW	7	c/r	h5	85	7	2500	nb.	9	A.St.	10	•
Spurn Head	981.1	+2	WSW	8	b/c-	h6	75	7	h000	nb.	h	-	h	6
Birmingham (Edgbaston)	987.5	+7	SW	5	b/c-	h5	75	8	1500	Cu.	3	-	3	•
Cranwell	985.0	+6	SW/S	7	b-	h6	75	8	2500	St.Cu	1	-	1	•
Gorleston	990.4	+2	SW	6	b	h8	75	7	-	-	0	-	0	5
Valentia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	987.7	+8	W	8	c+	h8	97	6	2500	Cu	7	A St	10	6
Ross-on-Wye	989.7	+7	SW/W	5	b/p/r	h6	75	8	h000	Cu.	7	-	7	•
Leafield	991.0	+5	SW/S	6	b/c-	h3	75	8	h000	Cu.	h	-	h	•
Winchester (Worthy Dn.)	994.9	+5	SW/S	5	b/c	h6	75	8	2500	St.Cu	3	-	3	•
S. Farnborough	993.6	+4	SW	6	b/c	h6	75	7	1500	Cu.Nb	3	-	3	•
London (Kew Obsy.)	994.1	+5	SW/S	5	b	h7	65	8	-	-	0	C.St	2	•
Croydon	994.8	+3	SW/S	6	b-	h7	75	7	-	-	0	A.St	1	•
Shoeburyness	994.4	+3	WSW	7	b	h8	75	8	2500	Cu.	1	-	1	•
Clacton-on-Sea	993.6	+4	SSW	6	b/c	h7	75	7	2500	Cu.	3	-	3	h
Felixstowe	993.4	+3	SSW	7	b	h8	75	7	-	-	0	-	0	6
Lympne	997.1	+4	SW	6	b/c-	h6	85	7	h000	St.Cu	3	-	3	•
Scilly (St. Mary's)	996.0	+5	W	6	b/c	h7	75	7	h000	Cu.	3	C.St	5	8
Falmouth (Pendennis)	996.3	+5	W	6	b/c-	h7	75	7	h000	Cu.Nb	34	A.St.	6	2
Plymouth (Mt. Batten)	996.0	+6	W	5	b/p/r	h8	75	7	2500	Cu.Nb	3	-	3	6
Portland Bill	995.1	+6	WSW	8	b/c+	50	75	7	1500	St.Cu.	9	-	9	8
Southampton (Calshot)	996.3	+6	SW/W	6	b/c-	h9	75	8	2500	St.Cu	3	-	3	3
Dungeness	996.8	+5	WSW	8	b/c+	50	75	8	2500	Cu.	h	A.St.	6	6
Guernsey (St. Peter Port)	1000.2	+5	W	4	b/c/p(h)	h6	85	6	2500	A.Cu	4	-	4	6

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.
Kew	18	p/R/q b c	c/q b c b	b/b c	50	41	37	1	Tr.	2.8	*	*	7
Croydon	244	c p/r/r	c b c 9	b c b	50	42	37	0.1	—	1.4	*	*	6
Greenwich (Royal Obsy.)	149	b c y	b c p r b	b w	51	41	33	Tr	Tr	2.5	62	77	5
City (Bunhill Row)	149	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	39	*	*	*	52	41	37	1		1.4	54	76	*
Regent's Pk. (Botanic Gdns.)	27	*	*	*	*	*	*			T	*	*	*
Camden Square	168	*	*	*	*	*	*	*	*		*		*
Kensington Palace	110	b c c p c	c	*	50	41	*	1	—	*	(At 18h.) 7.5.	86	*
Hampstead Observatory	80	b c	b c	*	51	41	34	2	—	*		82	*
Croydon	460	*	*	*						2.3	*	*	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 26th

South Kensington Max.	Time.	Min.	Time.
0.6	10h 26th	0.3	2.6h 26th

Kew Observatory Max.	Time.	Min.	Time.
0.1	19h 25th	<0.1	0h-7h 26th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 25th 17h 00m to 26th 5h 00m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	4 00	13 37	97
ζ Ursae Minoris	14 00	13 12	94

CODE FOR STATE OF GROUND.

0=Dry ground. 1=Wet ground. 2=Soft (muddy) wet ground. 3=Bare ground frozen (but less than 2 ins. deep). 4=Bare ground frozen (but more than 2 ins. deep). 5=Dew (or wet grass but not wet ground). 6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports). 7=Snow (thin layer, often not continuous). 8=Snow (deep, impeding traffic, usually a continuous layer). 9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

1929. December 1929.

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.7	11.54	15.41
	8.7	11.54	15.41
Greenwich	8.8	12.0	15.53
	8.8	12.1	15.54
Wick	9.6	12.13	15.20
	9.6	12.13	15.21
Valentia	9.51	12.41	16.32
	9.51	12.42	16.32

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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 intensity; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). / before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—b/r = fair weather after rain; — = has decreased; + = has increased.

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

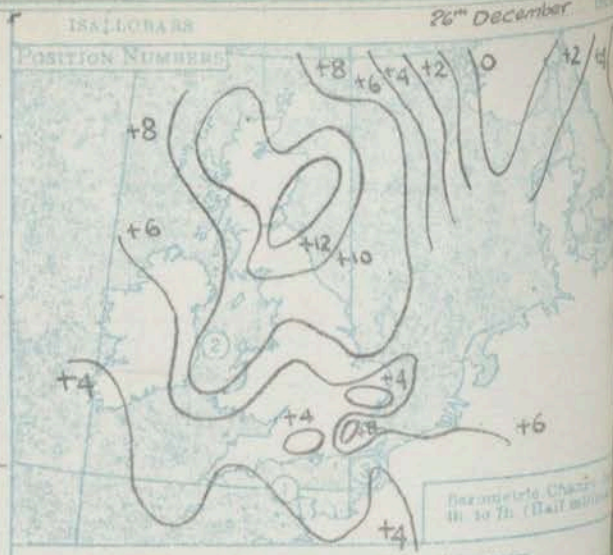
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in calf millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 25th	Weather. 13h.-18h. 25th	Weather. 18h. 25th to 1h. 26th	Weather. 1h.-7h. 26th	Temperature. Max. Day 7h.-18h.	Temperature. Min. Night 18h.-7h.	Temperature. Min on Grass	Rainfall† Day 7h.-18h. mm.	Rainfall† Day 7h.-18h. began.	Rainfall† Night 18h.-7h. mm.	Rainfall† Night 18h.-7h. began.	Sun 25th Hours.
Lerwick	cobprsu	aaaaso	os os	os s c	39	35	•	7	8.00	2	<21.00	0.0
Stornoway	p	r-d	or	or c	43	37	•	3	11.00	4	<21.00	0.0
Wick	rrir	oir	oirbc	c	43	39	•	5	8.00	4	<21.00	•
Tiree	rrR	rr	rcpr	prc	44	42	40	7	8.00	1	<21.00	0.0
Nairn	cq	cpr	cprq	c	40	39	•	04	15.30	0.6	22.00	0.0
Aberdeen	orsrqf	cir m	crrc	crcbc	45	41	38	7	8.00	1	<21.00	0.0
Malin Head	cid	cqcqir		cpr	46	45	•	3	8.00	2	<21.00	0.0
Renfrew	PRrq	oirmq	orrqc	orcbc	45	42	38	8	8.00	3	<21.00	0.1
Edinburgh (Inchkeith)	ocpr	corcbc	bccprbc	bbc	45	41	40	1	11.00	1	<21.00	0.0
Leuchars	omdqqqq	cqoru	crrc	cbc	45	39	34	4	8.00	2	<21.00	0.0
Eskdalemuir	cordnR	orm	orim	cimbc	42	40	37	17	9.00	11	<21.00	0.0
Tynemouth	occirq	cirq	ocirq	bcq	46	45	41	1	11.00	2	<21.00	•
Blacksod Point	prq	rr		phq	48	40	•	5	•	4	•	•
Donaghadee	cpr	cpr	cprc	cbcb	47	42	•	2	8.00	2	<21.00	•
Birr Castle	cir	circ	crcbc	bcbsc	50	35	25	3	8.00	Tr.	<21.00	0.9
Holyhead	ircqf	cf	cmqm	cbcq	49	44	42	2	8.00	-	-	0.1
Liverpool (Bidston)	orpb	cpqbc	cqr	rq	48	43	41	1	8.00	2	24.00	1.3
Chester (Sealand)	bcrq	prqbc	bcprq	pcbc	51	43	39	3	9.00	1	21.00	1.1
Harrogate	aqcir	cqir	cqir	cqir	46	42	39	2	9.00	6	<21.00	0.0
Spurn Head	cqf	cbcq	bcq	bcc	48	43	•	-	-	-	-	2.5
Birmingham (Edgbaston)	cpr	bcpr	bcb	b	46	39	37	2	9.00	-	-	0.2
Cranwell	cbcfb	pbcb		b	48	42	39	Tr.	12.30	-	-	4.7
Gorleston	orbcbq	bcbq	bq	bq	50	41	38	02	8.00	-	-	4.2
Valentia (Cahirciveen)	bccp		cybcp	bcpcpbc	48	42	37			2	<21.00	0.1
Roches Point							•					•
Pembroke (St. Ann's H.)	cpq	cq	cbcpq	bcq	50	45	•	04	8.00	0.1	22.00	0.0
Ross-on-Wye	pqcirq	cqir	pbcciro	bcb	49	42	37	5	8.00	0.6	<21.00	0.2
Leafield	cprbbc	cbc	bbcpr	bcb	47	37	33	Tr.	9.00	0.1	24.00	2.0
Winchester (Worthy Dn.)	bcpr	cprbc	bc	bcb	50	39	34	1	8.00	-	-	1.9
S. Farnborough	bcPbcc	bcpbc	bc	bcb	50	39	33	1	8.00	-	-	2.0
London (Kew Obsy.)	PRqbcq	cqbcbq	b	bbc	50	41	37	1	8.00	Tr.	-	2.8
Croydon	cprqrr	cprcbq		bbc	50	42	37	01	9.00	-	-	1.4
Shoeburyness	cqpr	bcq	bq	bc	51	41	38	1	8.00	-	-	2.7
Clacton-on-Sea	orbc	bcbc	bcb	b	49	41	40	06	8.00	-	-	1.7
Felixstowe	amrob	b	b	b	49	41	37	01	8.00	-	-	3.9
Lympne	crqprh	cprqbc		bcb	50	39	34	4	8.00	-	-	0.7
Scilly (St. Mary's)	bcpf	cpbc	bcp	bcpob	50	43	•	3	11.00	1	<21.00	0.0
Falmouth (Pendennis)	bcPq	cPqf	bcpoq	cpo	51	41	•	1	8.00	1	<21.00	1.8
Plymouth (Mt. Batten)	bcqprf	bcqpr	bcprb	bbcpro	51	42	38	1	8.00	Tr.	<21.00	0.9
Portland Bill	cPbc	cPcf	bcb	bbc	52	42	•	1	?	-	-	•
Southampton (Calshot)	cbcq	bcqPR		bc	52	42	38	03	14.30	-	-	1.7
Dungeness	cbPcf	h-rh		bcprbc	53	46	•	2	9.00	0.6	<21.00	•
Guernsey	cprbc	cprc	cpnbc	bccpr	52	43	38	4	12.30	1	<21.00	3.1



Observations from Cross Channel Steamers.

Position	Date and Time	Steamship	Wind Direc.	Wind Force	Weather	Temp. Air	Temp. Sea
3	26th 2h	Arundel	NNW	6	c -	49	49

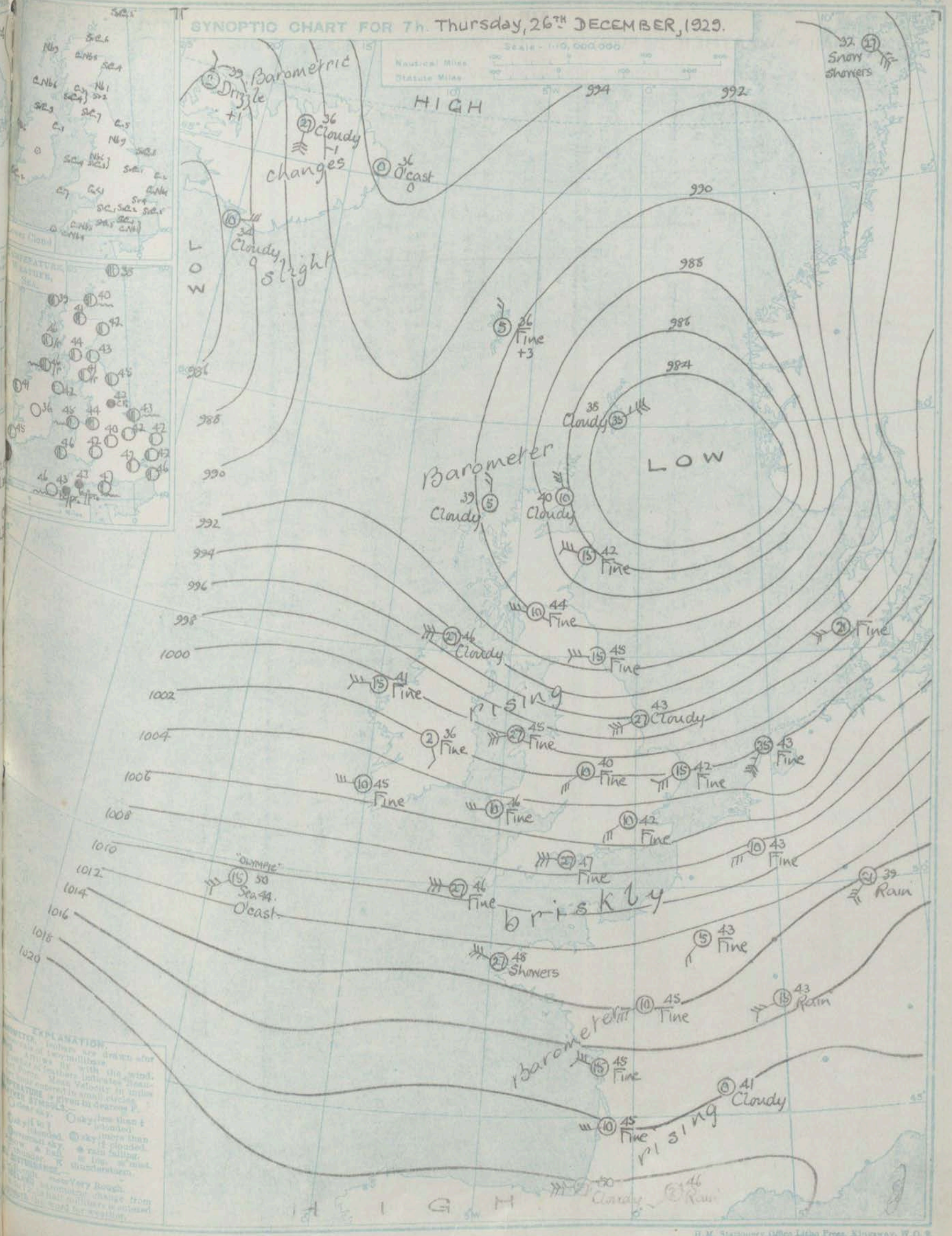
GENERAL INFERENCE.

A feeble ridge of relatively high pressure will move east across the British Isles in front of a new disturbance approaching from the Atlantic. Over most of the country weather will be mainly fine today, but rain will set in later today in western Ireland and spread gradually eastwards.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday 26th. December. 1929.	Farther Outlook
1. S.E. England 2. E. England 3. E. Midlands	Wind westerly moderate, backing and freshening; fine at first; more cloud tomorrow and possibly some rain; moderate day temperature; slight frost tonight.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England ~~9. N. Midlands~~	Wind southwest, moderate, backing and freshening; fine at first; rain later; moderate temperature to rather mild.	
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 1 - 3.	▼ South Cone still flying.
13. A. W. Scotland B. NW. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind light variable, becoming southwest and freshening; fair at first, apart from a few showers; cloud increasing with rain later; temperature rising.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwest, backing and freshening; probably approaching gale force on western coasts; becoming cloudy, with rain spreading from the west; improving later; temperature rising.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 12.30 G.M.T. — C. C. Shaw, C.B., D.Sc., K.B.E.

† For code see page 1


SYNOPTIC CHART FOR 7h. Thursday, 26th DECEMBER, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
LOW
HIGH
Barometric changes slight
Barometer rising briskly
Barometer rising
994
992
990
988
986
984
982
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
39 Drizzle +1
36 Cloudy -1
36 O'cast 0
34 Cloudy 0
36 Fine +3
35 Cloudy
39 Cloudy
40 Cloudy
42 Fine
44 Fine
46 Cloudy
45 Fine
41 Fine
43 Cloudy
36 Fine
45 Fine
40 Fine
42 Fine
43 Fine
45 Fine
36 Fine
42 Fine
43 Fine
47 Fine
46 Fine
"OLYMPIC" 50 Sea 44. O'cast
48 Showers
43 Fine
39 Rain
45 Fine
43 Rain
45 Fine
41 Cloudy
45 Fine
50 Cloudy
46 Rain
37 Snow Showers
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Thursday. 26th. December.....1929. No. 360....

Observations at 1h. G.M.T. 26th

STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10
Lerwick	34	979.8	-1	SE	8	os.s.	35	92	7	1500	Nb	10	–	10
Stornoway	30						•	•		•	•	•	•	
Wick	31	974.0	+5	nnE	3	c	45	97	7	1500	Nb	7	A St	8
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51													
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	976.2	+2	wSW	5	b	44	86	8	1500	St	1	–	1
Leuchars	39	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	87	977.8	+8	SW	6	bc/p	46	85	7	2500	Cu	5	–	5
Blacksod Point ...	18									•				
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26													
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	981.4	+2	w'S	8	bc.	45	75	7	4000	StCu	4	–	4
Birmingham (Edgbaston)	585	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	256													
Gorleston	14	996.8	+3	SW	6	b	45	92	7	–	–	0	–	0
Valentia (Cahirciveen)P	30									•				
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	997.2	+5	W	7	bc/pr	47	97	7	1500	CuNb	7	–	7
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Park)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	45	•	•	•	•	•	•	•
Croydon	344													
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350													
Scilly (St. Mary's) ...	163	1003.5	+5	WNW	6	bc	45	75	8	4000	Cu	3	–	3
Falmouth (Pendennis)	200	1003.1	+5	W	5	bc/pr	43	75	7	4000	CuNb	4	–	4
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1000.1	+6	wSW	7	b-	48	75	8	2500	StCu	2	–	2
Southampton (Calshot)	10													
Dungeness	20													
Guernsey (St. Peter Port)	173	1005.4	+5	W	4	bc	47	75	7	2500	StCu	6	–	6

Observations at 7h. G.M.T. 26th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rain 0-1
Lerwick	983.5	+7	NE	7	c	38	65	8	1500	StCu	5	A St	10	•
Stornoway	989.2	+11	N	2	c	39	92	6	2500	Nb	9	–	9	•
Wick	986.4	+9	NNW	3	c	40	85	8	2500	StCu	6	A St	8	7
Tiree	990.3	+7	NW	5	bc/r	46	85	7	2500	CuNb	6	–	6	5
Nairn	988.3	•	–	0	c	41	92	8	1500	CuNb	8	–	8	•
Aberdeen	986.4	+15	WNW	4	bc	42	85	8	4000	StCu	4	A St	7	5
Malin Head	996.2	+7	W	6	c/r	46	85	7	4000	StCu	9	–	9	6
Renfrew	991.4	+9	W	3	bc	44	85	7	2500	StCu	7	–	7	•
Edinburgh (Inchkeith)	988.5	+12	WSW	4	b	43	85	8	1500	St	2	–	2	1
Leuchars	988.5	+12	WSW	3	bc-	43	75	8	2500	Nb	1	Ci	8	•
Eskdalemuir	991.8	+10	W	3	bc/r	41	85	7	2500	StCu	7	–	7	•
Tynemouth	991.1	+10	W	4	bc	45	85	7	2500	Cu	5	–	5	4
Blacksod Point ...	1000.9	+5	W	4	bc/pr	41	85	7	•	CuNb	6	–	6	5
Donaghadee	994.5	+8	W	2	b+	42	75	7	4000	Cu	1	–	1	2
Birr Castle	1002.8	+5	SE	1	b	36	92	7	–	–	0	–	0	•
Holyhead	1000.7	+9	W'S	6	bc	45	85	7	2500	StCu	4	A Cu	5	6
Liverpool (Bidston) ...	998.6	+7	W'N	6	c	44	75	7	2500	Nb	9	–	9	•
Chester (Sealand) ...	999.1	+7	SWW	3	bc	43	75	8	4000	CuNb	3	–	3	•
Harrogate	997.2	+9	SW	6	c/r	42	92	7	2500	Nb	9	–	9	•
Spurn Head	995.9	+9	WSW	6	c+	43	85	7	4000	StCu	8	–	8	6
Birmingham (Edgbaston)	1002.2	+5	SW	3	b	40	85	8	–	–	0	ACu	2	•
Cranwell	999.4	+7	WSW	5	b	42	75	7	4000	StCu	1	–	1	•
Gorleston	1001.9	+5	SW	4	b	42	85	7	4000	Cu	2	–	2	4
Valentia (Cahirciveen)P	1005.7	+3	W	3	b	48	75	8	2500	StCu	2	–	2	•
Roches Point														4
Pembroke (St. Ann's H.)	1004.6	+5	W	3	bc	46	92	8	2500	Cu	7	–	7	•
Ross-on-Wye	1003.6	+5	SW	3	b	42	75	8	4000	Cu	1	A St	1	•
Leafield	1003.6	+5	SW'S	3	b	37	92	8	–	–	0	A Cu	1	•
Winchester (Worthy Park)	1005.7	+4	SW	3	b	39	85	7	4000	StCu	1	–	1	•
S. Farnborough ...	1005.8	+4	SW	3	b	39	85	8	4000	StCu	1	Ci St	2	•
London (Kew Obsy.) ...	1005.2	+4	SW	3	bc+	42	85	8	2500	St	4	A Cu	5	•
Croydon	1005.3	+8	WSW	4	bc+	43	75	6	2500	StCu	2	A Cu	5	•
Shoeburyness	1004.9	+6	SW	4	bc	43	85	7	4000	StCu	5	–	5	3
Clacton-on-Sea ...	1003.5	+7	SW	4	b	42	85	7	2500	Cu	2	–	2	2
Felixstowe	1004.2	+3	SW	4	b	42	85	7	4000	CuNb	1	ACu	2	•
Lympne	1005.9	+4	WSW	3	b	39	85	8	4000	StCu	2	–	2	•
Scilly (St. Mary's) ...	1008.4	+5	W'N	6	b	46	75	8	–	–	0	–	0	1
Falmouth (Pendennis)	1008.9	+3	W'N	4	bc/pr	43	75	7	4000	CuNb	4	–	4	3
Plymouth (Mt. Batten)	1008.3	+4	W	4	bc/pr	43	85	8	2500	CuNb	5	–	5	6
Portland Bill	1006.7	+6	W	6	bc+	47	75	8	2500	StCu	5	–	5	0
Southampton (Calshot)	1006.3	+5	WSW	4	b	42	75	8	2500	CuNb	3	–	4	5
Dungeness	1005.7	+5	WSW	4	bc+	46	85	8	2500	CuNb	4	–	6	4
Guernsey (St. Peter Port)	1022.6	+6	WNW	2	bc/pr	44	75	9	2500	StCu	6	–		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 25th December.....

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 24th to 9h. 25th	Temperature. Max. 9h.-17h. 25th	Rainfall.† Night 17h.-9h. 24th-25th	Rainfall.† Day 9h.-17h. 25th	Sunshine. Sunrise to Sunset. 25th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	o/r	o	35	45	12	0.6	0.0
Douglas (I. o. M.) ...	cp	cp	39	47	11	1	0.0
Llandudno ...	rc	qcpq	43	51	9	1	0.0
Colwyn Bay ...							
Rhyl...	orbc	pc	41	55	9	4	0.1
Wallasey	tirbc	bpc	40	50	4	1	1.3
Southport	cpo	o/c	40	49	4	1	0.0
Blackpool	o/c	cp	40	48	5	2	0.0
Morecambe ...							
Ilkley	cor	o	33	47	17	2	0.0
Cleethorpes... ...	b	bc	34	48	15	–	2.7
Mablethorpe. ...	cbab	crq	35	48	16	–	0.2
Skegness	rcbc	bc	38	48	14	–	3.5
Aberystwyth ...	ocrq	corq	41	49	4	3	0.0
Bath	cbcbq	bcpq	41	50	11	0.5	2.3
Cheltenham ...	orcp	cpbc	43	51	11	0.5	0.0
Leamington Spa ...	bcc	c	34	48	5	–	2.3
Lowestoft							
Harwich & Dovercourt	bc	bcc	38	50	7	–	4.0
Maldon	rcb	b	35	51	7	–	3.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	cod	oc	44	50	9	1	0.0
Bude	bobcc	cbrq	42	49	5	4	0.3
St. Ives	o/r	o/r	44	49	7	4	0.0
Penzance	bcirq	cirq	45	52	6	2	0.8
Paignton	orq	bcrpb	44	51	2	4	2.0
Torquay	rpbc	bpqoq	44	52	13	Trace	0.5
Jersey	roc	bc	49	52	8	–	2.1
Weymouth	pobc	qcpc	45	53	13	0.1	2.9
Bournemouth ...	bcb	bbcd	41	51	12	0.3	0.0
Ventnor ...	o/c	cc	45	51	5	1	3.8
Portsmouth (S'thsea)	bcp	bcp	43	51	9	1	1.2
Bognor Regis ...	bcrc	bcrr	45	51	9	1	1.6
Littlehampton ...	bcrp	bcp	41	55	8	1	1.6
Worthing	cp	bc	44	51	8	0.5	0.4
Brighton	bccor	ocdo	43	51	7	1	1.5
Eastbourne... ...	bcrph	pcbcb	47	53	6	2	0.4
Hastings‖	ohrso	opcoc	46	52	6	3	0.4
Folkestone	o/rc	o/rc	41	51	4	4	0.0
Dover	cqr	bcqcir	43	51	4	3	0.2
Deal	for	brb	39	50	6	3	2.0
Tunbridge Wells ...	bccop	bcopc	41	50	11	0.5	0.5
Ramsgate	cqr	qrbc	41	52	4	1	1.1
Margate	bcbd	cdc	41	50	3	1	2.4
Southend	bbcd	bcb	40	50	3	0.1	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ♦ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE; LONDON:

BRITISH SECTION. No. B 24872 Friday, 27th December 1929.

Observations at 13h. G.M.T. 26th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of Ground.
Lerwick	992.1	+9	NW	3	bc	37	75	8	1500	StCu	3	ACu	6	•
Stornoway	994.2	+2	N	1	c	38	92	6	2500	St	5	ACu	8	•
Wick	994.2	+5	W	2	c	38	97	8	2500	StCu	7	ACu	9	•
Tiree	996.2	+3	WNW	5	c	45	73	7	4000	StCu	6	ACu	9	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	995.8	+7	WNW	2	bc	41	85	7	7200	StCu	7	–	7	2
Malin Head	999.7	+2	SW	4	bc/p	44	85	8	2500	CuNb	3	CiCu	6	•
Renfrew	998.4	+7	WSW	4	c/pr₀	44	85	7	1500	Nb	9	–	9	2
Edinburgh (Inchkeith)	996.6	+7	SW	4	bc	44	85	8	800	St	2	ACu	7	•
Leuchars	996.0	+8	SW	3	c	44	85	7	4000	StCu	9	–	9	2
Eskdalemuir	999.4	+7	W'S	5	c/pr₀	41	85	8	2500	StCu	10	–	10	2
Tynemouth	999.1	+6	W	4	bc	45	75	7	4000	Cu	3	–	3	•
Blacknod Point	1000.3	+2	SW	4	c	47	75	8	•	–	0	ASt	10	•
Dunaghadee	1001.6	+3	W	2	b	43	75	7	4000	Cu	1	–	1	•
Birr Castle	1004.2	0	S	1	c	41	88	8	4000	StCu	9	–	9	•
Holyhead	1005.7	+2	SW'W	4	b	46	75	8	1500	St	1	Ci	1	1
Liverpool (Bidston)	1004.4	+3	W'N	5	b	44	65	8	2500	StCu	2	–	2	•
Chester (Sealand)	1004.6	+3	W'S	3	b-	48	58	8	4000	Cu	1	–	1	2
Harrogate	1002.9	+4	SW	3	bc-	43	75	8	2500	CuNb	5	–	5	•
Spurn Head	1003.4	+9	WSW	4	c	43	75	7	5700	StCu	6	CiSt	9	•
Birmingham (Edgbaston)	1007.6	+2	WSW	4	bc+	43	75	8	2500	Cu	6	–	6	2
Cranwell	1005.7	+4	WSW	5	c	43	75	7	4000	StCu	3	ACu	8	1
Gorleston	1006.3	+3	W	3	bc	46	92	7	–	–	0	CiSt	5	•
Valentia (Cahirciveen)	1004.8	-3	S'W	4	cr₀	46	85	7	1500	St	3	ASt	10	2
Roches Point	1007.7	-1	SW	2	c	45	92	8	2500	StCu	8	–	8	•
Pembroke (St. Ann's H.)	1007.5	-4	SW'W	4	bc-	48	92	8	2500	Cu	3	CiCu	4	•
Ross-on-Wye	1008.1	+3	WSW	4	b	46	65	8	4000	Cu	2	–	2	2
Leafield	1008.6	+4	WSW	4	b	43	75	7	4000	Cu	1	–	1	2
Winchester (Worthy Dn.)	1009.7	+1	WSW	3	b	46	65	8	4000	Cu	1	–	1	2
S. Farnborough	1009.7	+2	WSW	4	b	47	65	7	2500	Cu	1	–	1	2
London (Kew Obsy.)	1009.8	+1	WSW	4	b	45	75	6	2500	Cu	1	–	1	1
Croydon	1010.1	+3	WSW	4	b+	47	75	6	1500	Cu	2	–	2	2
Shoeburyness	1009.1	+4	SW'W	5	b-	46	75	5	–	–	0	ASt	1	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	–	–	0	Ci	5	0
Lympne	1008.8	+3	SW	4	bc	45	75	6						
Dover	1009.6	+1	W'S	3	b	46	65	7	4000	CuNb	1	–	1	2
Scilly (St. Mary's)	1011.0	0	W	5	c	48	85	8	4000	StCu	8	–	8	•
Falmouth (Pendennis)	1011.7	+1	W	4	bc	49	75	8	4000	CuNb	3	ACu	5	•
Plymouth (Mt. Batten)	1012.1	0	WSW	4	b	48	75	7	4000	CuNb	2	Ci	2	2
Portland Bill	1010.6	+6	W	5	b	48	75	8	2500	Cu	2	–	2	•
Southampton (Calshot)	1010.8	+3	W	4	b	48	65	7	2500	CuNb	1	–	1	2
Dungeness	1011.1	+4	WNW	3	bc-	48	75	8	–	–	0	ACu	3	•
Guernsey (St. Peter Port)	1014.2	+2	WSW	3	bc	49	65	8	2500	StCu	6	–	6	•

Observations at 18h. G.M.T. 26th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sec. 0-9
Lerwick	997.3	+6	–	0	b	34	75	8	–	–	0	–	0	•
Stornoway	993.9	-1	S	1	bc-	43	92	6	2500	St	3	–	3	0
Wick	997.4	+1	S	2	c	41	85	8	2500	StCu	9	–	9	4
Tiree	995.5	-1	SSW	5	cr₀	44	85	7	2500	Nb	10	–	10	4
Nairn	996.3	•	–	0	c	38	92	8	1500	St	8	–	8	•
Aberdeen	999.3	+4	SSE	2	(cm)	41	85	(4)	4000	StCu	10	–	10	1
Malin Head	997.2	-4	SSE	4	cr₀	42	92	7	4000	Nb	1	ASt	10	4
Renfrew	1000.7	+2	SSW	3	c	42	85	6	4000	StCu	8	–	8	•
Edinburgh (Inchkeith)	1000.0	+3	SW	4	bc	41	85	7	4000	StCu	3	ACu	4	0
Leuchars	999.7	+4	SW	3	bc-	42	85	6	4000	StCu	2	ACu	3	•
Eskdalemuir	1002.9	+3	WSW	4	bc	37	92	7	2500	StCu	6	–	6	•
Tynemouth	1003.3	+4	W	2	b	41	75	7	1500	St	2	–	2	2
Blacknod Point	994.2	-4	S	5	or+	48	97	7	•	Nb	10	–	10	7
Dunaghadee	1001.5	0	W	2	b	42	88	6	–	–	0	–	0	1
Birr Castle	1000.6	-4	S	1	or₀r₀	44	92	7	2500	Nb	10	–	10	•
Holyhead	1005.6	-1	SSW	4	c/r	46	85	6	2500	St	7	ASt	9	4
Liverpool (Bidston)	1006.4	+2	SSW	4	bc+	42	75	8	2500	StCu	5	–	5	•
Chester (Sealand)	1006.2	0	S	3	c+	41	75	7	2500	StCu	8	–	8	•
Harrogate	1006.2	+3	SSW	3	b	39	85	7	4000	StCu	1	–	1	•
Spurn Head	1006.5	+4	WSW	4	bc-	40	85	7	–	–	0	ASt	4	3
Birmingham (Edgbaston)	1009.4	+1	SSW	3	b	39	78	8	–	–	0	Ci	2	•
Cranwell	1009.1	+5	SW	3	b	38	85	7	–	–	0	–	0	•
Gorleston	1010.9	+4	SW'W	3	b-	41	85	6	–	–	0	–	0	0
Valentia (Cahirciveen)	1000.0	-3	SW	6	c/r	51	92	7	1500	St	8	ASt	9	6
Roches Point	1003.7	-3	SW	3	orr	47	97	7	1500	Nb	10	–	10	4
Pembroke (St. Ann's H.)	1006.8	-1	SW'S	4	cr₀	48	97	7	1500	CuNb	6	ASt	10	4
Ross-on-Wye	1009.5	+1	SW	3	c+	43	75	7	4000	StCu	2	ASt	8	•
Leafield	1010.6	+1	S'W	3	b	36	92	7	–	–	0	ACu	1	•
Winchester (Worthy Dn.)	1012.1	+3	S'W	2	b	38	85	7	–	–	0	Ci	1	•
S. Farnborough	1012.1	+3	SSW	3	b	40	85	8	–	–	0	–	0	•
London (Kew Obsy.)	1012.4	+3	SW'S	3	b	41	85	6	–	–	0	–	0	•
Croydon	1012.4	+3	SSW	3	b	40	85	6	1500	St	1	–	1	•
Shoeburyness	1012.4	+4	SW'W	3	b	39	92	7	–	–	0	–	0	•
Clacton-on-Sea	1011.5	+3	SW	3	b	42	85	6	–	–	0	–	0	•
Felixstowe	1011.9	+3	SW'S	3	b	40	85	6	–	–	0	–	0	0
Lympne	1013.1	+4	WSW	3	b	40	85	6	–	–	0	–	0	•
Scilly (St. Mary's)	1010.0	-1	SW	5	c/pr₀	48	92	7	4000	Cu	9	–	9	5
Falmouth (Pendennis)	1011.4	0	SW'W	4	c-	47	92	8	4000	CuNb	8	ASt	8	1
Plymouth (Mt. Batten)	1011.4	-1	WSW	5	cr₀	47	85	8	2500	Nb	9	–	9	3
Portland Bill	1011.0	+1	SW	5	bc+	49	75	8	2500	StCu	5	ACu	6	4
Southampton (Calshot)	1012.9	+2	WSW	3	b-	43	75	8	2500	CuNb	1	ACu	1	0
Dungeness	1013.9	+3	W	1	b	45	85	7	–	–	0	–	0	0
Guernsey (St. Peter Port)	1015.2	+2	SW	2	cpr₀	47	85	8	2500	Nb	10	–	10	4

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 18h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.
		24 HOURS ENDED 9h.								YESTERDAY.	TO-DAY.		
Kew	18	bmo	fzo	mfgfzfog	46	39	31	–	2	3.7	•	•	5
Croydon	244	bmo	bmo	mfgfzfog	47	38	33	–	3	5.6	•	•	6
Greenwich (Royal Obsy.)	149	b	b	bzcirb	46	38	28	–	3	4.1	6.8	9.1	•
City (Bunhill Row)	86	•	•	•	•	•	•	•	•	1.6	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	48	41	34	3		5.1	6.4	9.2	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	4.2	•	•	•
Camden Square	110	b	b	•	44	41	•	–	2	•	•	9.5	•
Kensington Palace	80	bc	bcb	•	47	40	29	–	2	•	(At 18h. 24h.) 9.8	9.8	•
Hampstead Observatory	450	•	•	•	46	37	30	–	2	5.5	•	9.8	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 27th

	Max.	Time.	Min.	Time.
South Kensington	1.0	17h 26th	0.3	1-6h 27th
Kew Observatory	0.4	18h 19h 26th	<0.1	1-6h 27th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 26th 17h 00m to 27th 07h 00m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 00	05 49	42
δ Ursae Minoris	14 00	05 22	38

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

4th and 27th, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.7 / 8.7	11.54 / 11.55	15.41 / 15.42
Greenwich	8.8 / 8.8	12.1 / 12.1	15.54 / 15.55
Wick	9.6 / 9.6	12.13 / 12.14	15.21 / 15.22
Valentia	8.51 / 8.51	12.42 / 12.42	16.33 / 16.34

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus r—be/r = fair weather after rain; – = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell } Calm or slight sea.
2=heavy swell } Calm or slight sea.
3=no swell } Moderate sea.
4=mod. swell } Moderate sea.
5=heavy swell } Moderate sea.
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

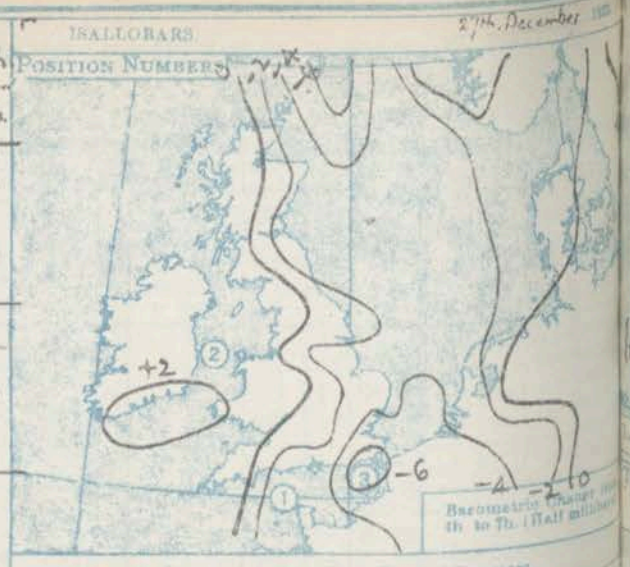
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	65 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 26th	18h.-18h. 26th	18h. 26th to 1h. 27th	1h.-7h. 27th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN 26th Hours.
Lerwick	cpr₀bc	bcb	bbcc	cir₀	39	33	•	Tr	08.00	1	04.30	0.3
Stornoway	c	c	c	coR	43	39	•	–	–	7	02.30	0.3
Wick	c	c	c	cr₀bc	41	41	•	–	–	1	01.30	•
Tiree	cpRc	c	rrc	irq	46 ~~45~~	39	36	2	11.00	4	21.00	0.0
Nairn	cα₀	c	c	c	41	36	•	0.2	11.00	–	–	0.0
Aberdeen	bcbbc	bcc2	c2bccrm₀	cr₀c	42	40	37	–	–	1	24.00	1.0
Malin Head	cbc	bcc	cr₀r₀bc	bbcr₀	46	39	•	Tr	17.30	3	21.00	1.2
Renfrew	crqcp₀	cm₀	cr₀rr	rr₀cb	44	40	38	2	08.00	4	21.00	0.4
Edinburgh (Inchkeith)	bbc	b-bc	bccir₀	or₀r₀cbc	44	40	38	–	–	1	22.00	0.5
Leuchars	bcbcc	cp₀bccp₀bcc₀	bccr₀r₀c	cr₀c	45	39	35	0.1	13.30	2	22.00	2.1
Eskdalemuir	bccpr₀c	cbc	bccpr	cerrm₀bc	41	36	35	1	08.00	10	21.00	0.0
Tynemouth	bcq	bcb	boir₀	oc	45	38	34	–	–	0.3	24.00	•
Blacksod Point ...	prqc	rrq	pqc	pqbc	49	38	•	6	•	5	•	•
Donaghadee	b	b2₀	cir₀	cir₀	44	41	•	–	–	6	21.00	•
Birr Castle	bbcc	cor₀r₀	orrc	cir	44	37	31	Tr	15.30	3	21.00	0.6
Holyhead	bcbm₀b	bbcc	r₀rr	bccm₀	47	46	43	Tr	17.30	6	~~24.00~~ 23.00	4.5
Liverpool (Bidston) ...	cbcb	b-bc	or₀r	cbc	44	40	38	–	–	2	22.00	4.8
Chester (Sealand) ...	bcb	bybcv	cr₀	crbc	48	40	34	–	–	1	21.00	4.9
Harrogate	cqircbc	bcb	bocrr	crrcbc	43	37	31	0.6	08.00	2	22.00	2.3
Spurn Head	cpr₀c	cbc	bccpr₀	corr	44	36	•	Tr	08.00	2	24.00	0.0
Birmingham (Edgbaston)	b-bc	bcb	bor₀r₀	or₀rbc	45	38	36	–	–	5	22.00	5.1
Cranwell	bcc	c-b	bor₀	orα₀	45	37	32	–	–	5	24.00	1.4
Gorleston	bqbc	bc	b	bor₀rq	46	38	36	–	–	0.6	03.30	0.1
Valentia (Cahirciveen)	bbccp₀cir₀	cr₀r₀c	cp₀bc	bccp₀	51	45	42	4	08.00	1	21.00	0.2
Roches Point	bbcp₀c	crr	circ	cbcc	49	41	•	2	09.00	3	21.00	•
Pembroke (St. Ann's H.)	bc	bccr₀	orrm₀	cp₀bcq	49	40	•	1	14.30	6	21.00	3.5
Ross-on-Wye	b	bbc	cp₀or	p₀cr₀bc	47	42	35	–	–	2	21.00	6.2
Leafield	b	b	bbccrr	rrc	44	35	31	–	–	5	22.00	5.8
Winchester (Worthy Dn.)	b	b	bbccorr	orrcb	47	35	27	–	–	6	22.00	6.4
S. Farnborough ...	b	b	bor₀r₀	or₀rrcbc	47	39	29	–	–	2	24.00	6.1
London (Kew Obsy.) ...	bm₀	b2₀	bm₀cm₀r₀	cr₀rcm₀	46	39	31	–	–	2	24.00	5.7
Croydon	bum2₀	bbcbm₀	bm₀cα₀	cα₀or00	47	38	33	–	–	3	24.00	5.6
Shoeburyness	bcbm₀	bm₀	b	crr	46	37	33	–	–	2	04.30	4.9
Clacton-on-Sea ...	bbc2	bcb2	b2bc	bcor	45	40	35	–	–	1	05.30	1.9
Felixstowe	bbc2₀	bc2₀	b2₀c	cm₀rrm₀	45	39	35	–	–	4	02.30	2.8
Lympne	bcb	b	bbcc	cor₀ddf	46	37	31	–	–	1	04.30	5.5
Scilly (St. Mary's) ...	bbcpc	cp₀	orrbc	bcp₀	49	46	•	0.3	08.00	3	21.00	1.7
Falmouth (Pendennis)	bcp₀	bccP	corrqm₀	orm₀qbc	49	46	•	0.4	08.00	5	21.00	4.2
Plymouth (Mt. Batten)	bcpr₀b	bqcr₀	corrm₀	orbpr	49	47	44	0.1	08.00	3	21.00	5.0
Portland Bill	bcb	bbc	or₀	orrr₀c	50	45	•	–	–	3	21.00	•
Southampton (Calshot)	bm₀	b	bccr₀or₀	or₀r₀-b	49	42	38	–	–	3	22.00	6.3
Dungeness	bbc	bcb	bbc	bccr₀crr	49	47	•	–	–	2	03.30	•
Guernsey	cpr₀c	cpr₀p	ccorr	corpr	49	46	41	3	08.00	6	21.00	3.9



Observations from Cross Channel Steamers.

Position.	Date and Time	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
1	26th 12h	ST HELIER	WNW	6	bc	50	51
3	27th 02h	DIEPPE	WSW	5	r₀	48	49

GENERAL INFERENCE.

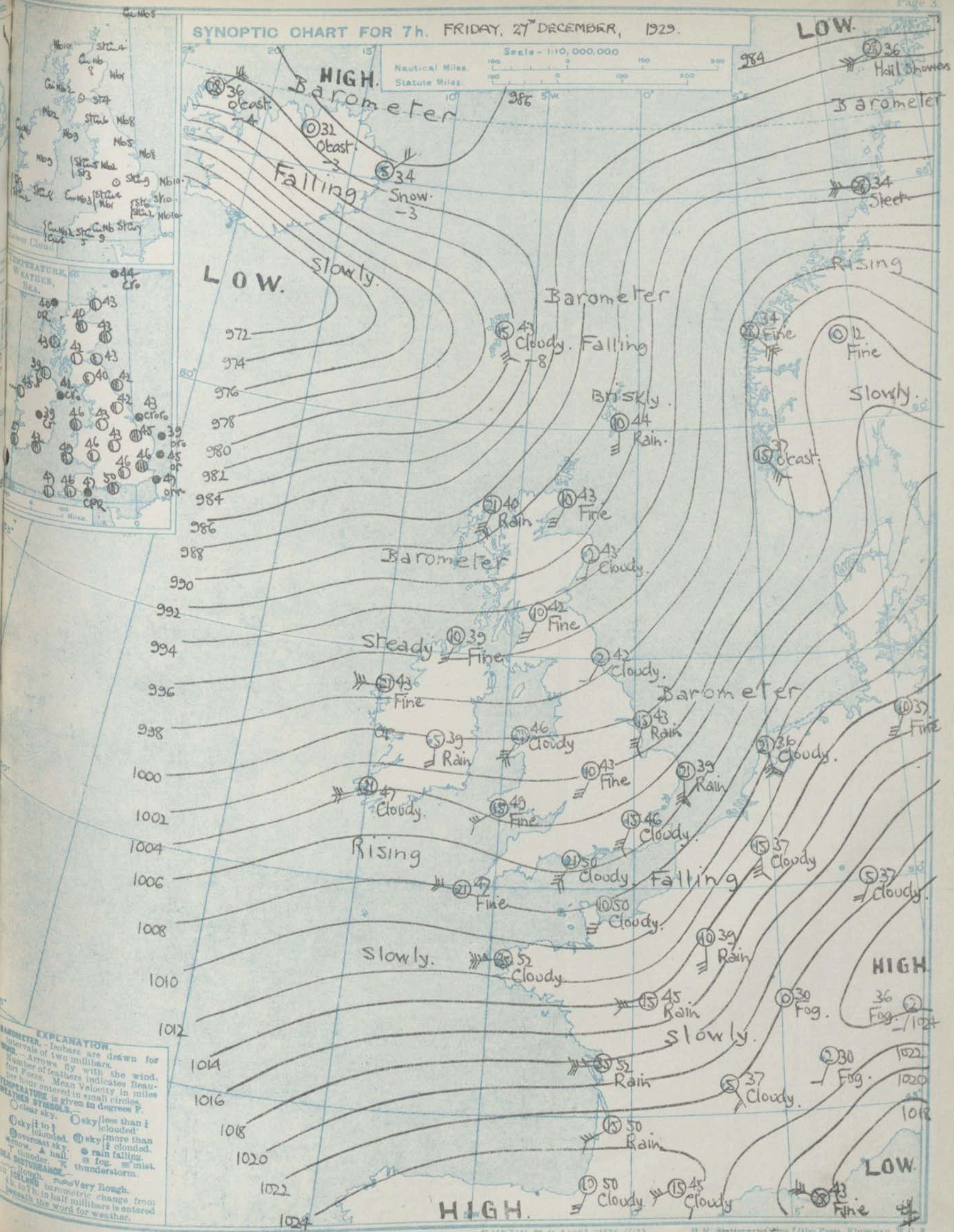
Secondaries associated with a depression centred south of Iceland are likely to move across the British Isles from the West and maintain unsettled weather generally though there will be bright intervals.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 27th December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate or fresh winds between south and west; bright intervals but showers or rain at times; rather mild.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Fresh winds between south and west, strong at times; bright intervals but showers or rain at times; rather mild at first, temperature falling later a little.	↓ South Cone still flying.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland ↓ 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland ↓	As 4 - 8.	W.H.P.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0900 G.M.T. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

† Trace = rain has fallen, but amount less than 0.1 mm.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Friday, 27th. December 1929. No. 361.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 27th. Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9	Observations at 7h. G.M.T. 27th. Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	54	996.1	-2	SSE	3	c	39	75	7	1500	StCu	5	ASt	9	*	990.4	-6	S	3	cr₀	44	85	7	1500	CuNb	5	ASt	9	*
Stornoway	30	990.7	-3	S	5	c	*	*	6	*	*	*	*	10	*	989.0	+1	SW	5	oR	40	97	6	1500	Nb	10	–	10	4
Wick	81	993.6	-4	SSW	3	c	43	88	8	2500	St	5	ASt	10	*	990.8	-3	SW	3	bc	43	85	8	2500	StCu	4	CuSt	6	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	992.6	0	W	5	bc-	43	65	7	4000	CuNb	2	ASt	3	5
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	991.8	*	–	0	c	40	92	8	1500	CuNb	8	–	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	992.8	-2	SSW	1	c	43	97	6	1500	Nb	1	ACu	9	0
Malin Head	81	994.6	+2	SW'W	3	b/p	45	85	8	4000	Nb	2	–	2	4	995.8	+1	SW	3	bc/p	39	97	7	2500	Nb	2	CuCu	6	*
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	996.1	0	SW	3	b	42	85	7	–	–	0	Cc	1	1
Edinburgh (Inchkeith)	100	997.6	-3	WSW	2	or₀	44	85	8	2500	Nb	10	–	10	*	995.0	-2	WSW	3	bc	43	97	8	1500	St	4	–	4	*
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	994.5	-2	SW	3	c	41	92	7	2500	Nb	5	ASt	9	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	996.6	0	SW'W	4	bc	40	92	7	1500	StCu	6	–	6	1
Tynemouth	67	1001.0	-3	SSW	2	o/p	41	85	7	1500	Nb	10	–	10	*	997.4	-3	SW	1	c	42	97	7	1500	Nb	8	–	8	7
Blacksod Point ...	18	996.1	+1	W	4	c	45	85	7	*	–	0	ASt	10	*	997.9	+1	W	5	bc	43	75	7	*	CuNb	4	–	4	1
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*	*	997.2	0	W'S	2	cr₀	42	85	7	1500	Nb	9	–	9	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.9	+1	S	2	cr	39	92	7	2500	Nb	9	–	9	4
Holyhead	26	1000.6	-3	SW'W	4	bc/r	49	97	6	2500	St	7	–	7	*	1001.2	0	WSW	5	c/r	46	75	6	1500	StCu	8	–	8	*
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.2	0	WSW	4	b-	43	85	8	2500	Nb	2	–	2	*
Chester (Scalaud) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.5	0	SW'W	2	b-	44	85	8	4000	CuNb	1	Cc	2	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.2	0	SW'S	3	bc	42	92	7	2500	Nb	5	–	5	*
Spurn Head	29	1005.3	-1	SW'S	3	c/pr₀	39	97	7	4000	Nb	6	ASt	10	*	999.7	0	SW'S	4	cr₀r₀	43	97	7	4000	Nb	8	ASt	10	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.2	0	SW	3	bc+	43	97	8	–	–	0	ASt	7	*
Cranwell	256	1006.5	-4	S'W	4	or₀+	40	85	6	5700	Nb	10	–	10	*	1001.3	-5	SW	4	c/r	45	92	6	2500	StCu	9	–	9	0
Gorleston	14															1005.1	-4	SSW	6	or₂+	39	97	6	800	Nb	10	–	10	5
Valentia (Cahireiveen)P	30	1006.6	+1	SW	5	o/r	47	92	7	*	Nb	10	–	10	*	1004.0	+1	W'S	5	c	47	65	8	2500	St	9	–	9	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.9	+3	W	3	c	42	92	7	1500	StCu	8	–	8	4
Pembroke (St. Ann's H.)	150	1002.3	+3	WNW	3	cd₀d₀	49	97	0	2500	CuNb	7	ASt	10	*	1003.2	+2	WSW	4	bc-	49	85	7	2500	CuNb	3	ASt	6	*
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.5	+1	WSW	3	bc	46	85	7	4000	StCu	5	–	5	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.5	+1	SW	3	bc	45	97	7	4000	Cu	7	–	7	*
Winchester (Worthy Dn.)	273	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.4	-1	WSW	3	b+	45	92	7	4000	StCu	2	–	2	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.9	-1	WSW	3	bc	46	92	8	1500	StCu	5	–	5	*
London (Kew Obsy.) ...	18	*	*	*	*	*	45	*	*	*	*	*	*	*	*	1004.7	-2	SW'S	4	c/r	46	97	5	1500	St	8	–	8	*
Croydon	244	1010.4	-3	SSW	4	cd₀	44	92	6	800	St	9	–	9	*	1005.1	-4	SW	4	od₂d₀	47	97	6	800	Nb	10	–	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.7	-4	SSW	6	cr₀	46	97	7	1500	St	5	AS	9	5
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.3	-7	SSW	5	or	45	92	6	1500	St	10	–	10	1
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.5	-3	S'W	6	orr	45	97	5	1500	Nb	10	–	10	*
Lympne	350	1011.9	-2	SSW	4	c+	44	92	8	4000	St	4	ASt	8	*	1006.6	-6	S'W	5	odd	45	97	2	<150	Nb	10	–	10	*
Scilly (St. Mary's) ...	203	1006.7	-1	W	6	bc	50	97	7	4000	Cu	5	–	5	5	1007.4	+1	W'N	5	bc	47	92	7	4000	Cu	6	–	6	1
Falmouth (Pendennis)	200	1006.6	-5	W'S	6	or-	51	97	6	2500	Nb	10	–	10	3	1007.5	0	W'N	4	bc	46	92	8	4000	StCu	5	–	5	3
Plymouth (Mt. Batten)	62	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.1	+1	W	4	c/PR	48	92	8	1500	CuNb	9	–	9	5
Portland Bill	32	1007.6	-5	SW	6	crr	49	85	7	1500	StCu	10	–	10	0	1005.1	-3	SW'W	5	c	50	92	8	1500	StCu	7	AS	8	0
Southampton (Calshot)	10	1010.1	-5	S'W	6	or₀r₀	48	85	7	1500	Nb	10	–	10	5	1006.1	0	WSW	3	bc+	47	92	7	2500	StCu	3	–	3	5
Dungeness	20	1010.5	-3	SW	5	bc+	48	92	8	2500	StCu	6	–	6	0	1006.2	-7	S	5	orr	47	97	7	1500	Nb	10	–	10	5
Guernsey (St. Peter Port)	173	1011.6	-5	SSW	3	oRR	48	97	6	800	Nb	10	–	10	5	1009.6	+2	W	3	c/PR	50	92	5	800	StCu	8	–	8	5

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 26th. December.

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. ‡ 9h. 25th. to 9h. 26th. °F.	Temperature. Max. 9h.-17h. 26th. °F.	Rainfall.† Night 17h.-9h. 25th.-26th. mm.	Rainfall.† Day 9h.-17h. 26th. mm.	Sunshine. Sunrise to Sunset. 26th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	42	46	Trace	–	2.6
Douglas (I. o. M.) ...	bc	bc	42	45	0.5	–	4.7
Llandudno ...	b	bbc	43	46	2	–	5.1
Colwyn Bay ...							
Rhyl	bc	bc	43	47	4	–	5.2
Wallasey	bcb	bbc	43	45	3	–	4.9
Southport	cocbc	bbcco	*45	46	2	–	2.2
Blackpool	orc	cbcc	43	46	3	–	2.9
Morecambe ...	cbc	bccr₀	40	45	1	Trace	2.7
Ilkley	c	c	41	44	13	–	0.0
Cleethorpes	co	oc	42	44	–	–	0.3
Mablethorpe ...	cqbc	b	42	44	–	–	3.5
Skegness	bcb	bbc	38	44	Trace	–	0.7
Aberystwyth ...	cqbc	bcp	32	47	0.3	–	2.7
Rhyl	p₀bcb	bbc	40	46	1	0.3	4.7
Cheltenham ...	bbc	b	39	47	1	–	5.4
Leamington Spa ...	bc	bc	40	46	–	–	5.3
Lowestoft	cbc	b	40	45	–	–	1.3
Harwich & Dovercourt	c	b	38	49	–	–	3.4
Maldon	b	b	40	46	–	–	4.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bbc	co	44	48	0.3	–	3.4
Bude	pbc	bc	44	50	1	–	3.2
St. Ives	c	c	43	48	1	0.3	2.9
Penzance	bc	cpr	43	51	1	0.2	3.1
Paignton	bwbbc	orpo	38	50	–	1	5.1
Torquay	wbbce	p₀op₀	40	50	–	Trace	5.6
Jersey	rby	pbc	44	49	5	1	3.7
Weymouth	b	b	43	50	–	–	6.4
Bournemouth ...	cb	bbc	39	48	–	–	6.3
Ventnor ...	b	b	43	48	–	Trace	6.0
Portsmouth (S'thsea)	b	b	43	48	0.3	–	6.5
Bognor Regis ...	bbc	b	40	49	1	–	6.4
Littlehampton ...	b	bbc	42	49	1	–	6.5
Worthing	b	b	44	50	0.3	–	6.1
Brighton	b	b	44	48	0.5	–	5.9
Eastbourne	bbcb	b	44	48	4	–	5.8
Hastings	bcb	b	42	49	1	–	6.0
Folkestone	bc	b	42	48	–	–	5.8
Dover	bcb	b	43	48	Trace	–	5.1
Deal	bcb	bcb	45	47	–	–	5.6
Tunbridge Wells ...	b	b	39	47	1	–	5.9
Ramsgate	bcb	b	41	49	–	–	5.1
Margate	bc	bc	41	48	–	–	5.8
Southend	bcb	b	41	47	–	–	4.4

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 248 73 Saturday 28th December 1929.

Observations at 15h. G.M.T. 27th.

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	989.0	-2	SSW	1	c	45	85	7	1500	StCu	3	ASt	8	•
Stornoway	990.1	0	WSW	1	bc	39	92	7	4000	CuNb	4	CiSt	7	•
Wick	991.5	0	SW	3	c	40	92	8	1500	StCu	7	ASt	10	•
Tiree	993.5	0	W'S	5	bc	43	65	8	4000	Cu	4	CiCu	8	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	993.2	-1	WSW	2	c	42	75	6	1500	Cu	1	ASt	9	2
Malin Head	996.4	0	SW	5	bc/p	42	85	7	2500	CuNb	3	-	3	•
Renfrew	996.4	-1	SW	4	c/r	44	75	7	4000	CuNb	7	ACu	8	2
Edinburgh (Inchkeith)	995.5	0	WSW	4	cr°	41	85	7	800	Nb	2	ASt	9	•
Leuchars	994.5	-1	SW	3	c	42	85	7	1500	StCu	7	ACu	8	2
Eskdalemuir	997.3	+1	SW	4	c	39	85	7	1500	StCu	9	-	9	2
Tynemouth	997.7	+2	WSW	2	c/f	43	85	7	1500	CuNb	8	-	8	•
Blacksod Point	998.5	+1	W	4	c	42	75	8	•	-	0	ASt	8	•
Donaghadee	998.9	+1	SSW	2	bc	41	75	7	4000	StCu	2	ACu	6	•
Birr Castle	1002.1	-1	SSW	2	c	40	85	7	2500	StCu	7	CiCu	8	•
Holyhead	1002.8	0	WSW	5	bc	45	65	7	2500	Cu	3	Ci	6	1
Liverpool (Bidston)	1001.7	0	WNW	5	bc+	44	65	8	2500	CuNb	3	Ci	3	•
Chester (Sealand)	1002.4	0	W'S	3	bc	48	55	7	4000	StCu	6	Ci	7	2
Harrogate	999.8	-1	WSW	3	b+	42	75	7	2500	CuNb	1	-	1	•
Spurn Head	1000.4	0	W'S	3	c+	45	85	6	4000	StCu	5	CiSt	8	•
Birmingham (Edgbaston)	1003.8	+1	W	3	c	46	65	8	4000	Nb	3	ACu	8	2
Cranwell	1002.2	0	WSW	5	bc+	47	75	7	4000	Cu	4	-	4	2
Gorleston	1002.7	-2	WSW	2	bc	48	92	6	4000	Cu	5	-	5	•
Valentia (Cahirciveen)	1004.0	-2	W'N	4	cr°	42	85	8	1500	Nb	9	-	9	2
Hoches Point	1005.1	-1	W	3	c	43	97	7	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	1004.8	0	WSW	4	cr+	43	97	7	800	Nb	10	-	10	•
Ross-on-Wye	1004.5	0	W'S	3	c	46	65	8	4000	StCu	2	CiSt	8	2
Leafield	1004.3	-1	WSW	4	bc	45	85	8	5700	StCu	1	CiSt	7	2
Winchester (Worthy Dn.)	1006.3	-2	WSW	3	c	46	75	8	4000	StCu	1	ASt	9	2
S. Farnborough	1005.5	-1	WSW	4	bc	48	75	8	1500	St	1	CiSt	7	2
London (Kew Obsy.)	1005.4	-1	WSW	3	bc	48	75	5	2500	Cu	1	ACu	4	2
Croydon	1006.1	-1	W	4	bc-	49	75	6	2500	StCu	3	Ci	6	2
Shoeburyness	1005.3	-1	WSW	2	b-	49	85	8	4000	StCu	1	ACu	2	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1004.5	-1	SW'W	3	bc	47	85	6	-	-	0	ACu	4	2
Scilly (St. Mary's)	1005.7	-1	WSW	3	bc-	49	85	6	2500	StCu	4	CiSt	5	2
Falmouth (Pendennis)	1007.2	0	W	6	bc	50	85	7	4000	Cu	3	CiCu	5	•
Plymouth (Mt. Batten)	1008.1	+1	SW'W	6	bc+	49	85	8	4000	Cu	5	ACu	7	•
Portland Bill	1007.0	-3	WSW	5	c	48	85	8	2500	Nb	6	CiSt	9	2
Southampton (Calshot)	1006.3	+1	W	5	c	49	75	8	2500	StCu	6	AST	8	•
Dungeness	1007.2	-2	WSW	3	bc-	50	75	8	2500	StCu	3	Ci	7	2
Guernsey (St. Peter Port)	1006.0	+1	WSW	3	bc-	50	97	7	2500	Cu	1	CiCu	6	•
	1010.0	-2	WSW	3	c+	52	85	6	2500	StCu	8	-	8	•

Observations at 18h. G.M.T. 27th.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	989.4	+1	SSW	1	bc	42	85	8	1500	StCu	3	AST	8	•
Stornoway	990.4	0	SSW	2	bc-	36	92	7	4000	CuNb	3	-	3	0
Wick	992.0	+1	SW	2	bc	36	92	8	2500	StCu	4	CiSt	7	1
Tiree	994.6	+1	W'S	4	or	40	75	8	4000	Nb	10	-	10	5
Nairn	993.6	•	W	2	bc	36	85	8	2500	Cu	4	-	4	•
Aberdeen	994.6	+2	SW	2	bc-	40	75	6	-	-	0	ASt	4	0
Malin Head	997.0	+1	SW	5	bc/pp	39	92	7	2500	CuNb	3	-	3	5
Renfrew	997.5	+1	WSW	2	b/h	36	92	6	-	-	0	-	0	•
Edinburgh (Inchkeith)	996.6	+1	WSW	4	bc/r	43	92	7	800	St	4	-	4	2
Leuchars	996.1	+2	SW	3	b-	36	85	7	4000	StCu	1	-	1	•
Eskdalemuir	998.9	+1	SW	3	b-	34	92	7	2500	StCu	2	-	2	•
Tynemouth	999.4	+2	WSW	2	bc	40	75	6	1500	Cu	6	-	6	2
Blacksod Point	999.4	0	W	4	bc	42	75	7	•	CuNb	5	-	5	7
Donaghadee	999.4	0	SW	3	bc+	36	85	7	4000	StCu	6	-	6	•
Birr Castle	1002.7	+1	S	1	x	34	97	7	2500	StCu	5	-	5	•
Holyhead	1002.9	0	SW'S	3	cr°	42	85	6	1500	Nb	10	ASt	10	1
Liverpool (Bidston)	1002.3	0	S'W	3	bc+	40	75	8	2500	Nb	8	-	8	•
Chester (Sealand)	1002.9	0	SW	3	bc	42	75	6	4000	StCu	2	ASt	6	•
Harrogate	1002.1	0	SSW	3	b	37	85	7	-	-	0	-	0	•
Spurn Head	1002.3	+1	WSW	2	bc	39	92	7	4000	StCu	4	-	4	2
Birmingham (Edgbaston)	1004.3	0	SW	3	bc-	41	75	8	4000	StCu	4	Ci	6	•
Cranwell	1003.8	+2	SW	3	bc-	38	85	6	4000	StCu	1	Ci	5	•
Gorleston	1004.2	0	WSW	2	c	44	85	7	-	-	0	ASt	10	0
Valentia (Cahirciveen)	1005.2	+2	SW'W	5	bc	44	65	8	2500	Nb	4	-	4	8
Hoches Point	1006.0	+3	NW	3	bc	41	97	8	1500	CuNb	6	-	6	4
Pembroke (St. Ann's H.)	1004.0	-2	NW	3	c/PH	44	97	8	1500	CuNb	4	CiCu	8	1
Ross-on-Wye	1004.9	0	SW	2	bc-	39	85	7	4000	StCu	1	ASt	8	•
Leafield	1005.0	0	SW'S	3	or+	39	92	7	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	1006.1	0	SW'W	3	bc/r	40	92	8	2500	StCu	3	-	3	•
S. Farnborough	1005.6	0	SW	4	or+	43	92	6	1500	Nb	10	-	10	•
London (Kew Obsy.)	1005.6	0	SW	1	c	44	85	5	-	-	0	ASt	9	•
Croydon	1005.9	-1	SSW	3	c+	42	92	5	4000	StCu	6	Ci	8	•
Shoeburyness	1005.8	+1	SSW	2	b	41	92	7	-	-	0	ASt	1	•
Clacton-on-Sea	1005.3	0	WSW	3	bc	43	92	6	4000	Cu	7	-	7	1
Felixstowe	1005.2	0	W	1	o	44	85	6	1500	St	10	-	10	0
Lympne	1005.8	0	W'S	3	c	43	85	6	4000	StCu	5	ASt	10	•
Scilly (St. Mary's)	1008.9	+1	NW	5	bc	43	97	8	4000	Cu	3	-	3	5
Falmouth (Pendennis)	1008.7	0	WSW	5	c/bc°	47	75	7	4000	StCu	6	ASt	9	-
Plymouth (Mt. Batten)	1007.5	-1	W	4	cr°	46	85	7	2500	CuNb	8	-	8	4
Portland Bill	1005.9	-2	WNW	6	c+	47	75	8	1500	StCu	7	ASt	9	5
Southampton (Calshot)	1006.7	-1	W'N	3	bc/pp	43	85	7	2500	CuNb	7	-	7	0
Dungeness	1006.7	+1	SW	2	bc+	46	75	7	2500	StCu	7	CiCu	7	3
Guernsey (St. Peter Port)	1010.0	+2	W	3	c	50	75	6	2500	StCu	8	-	8	4

LONDON OBSERVATIONS.

Day 7h-18h., Kew & Croydon.
9h-18h., Kensington.
3h-21h., other stations.

	Heights above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.§ (To-day.)
Kew	18	c mbc	c z₀	fog mbc	49	35	27	-	1	2.1	•	•	5
Croydon	244	mbc bc	bc m	c r mb	49	36	31	0.1	1	1.3	•	•	5
Greenwich (Royal Obsy.)	149	bc	abc	c mbc	49	33	23	-	1	2.1	77	94	•
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	48	35	27	2	•	1.3	77	87	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	1.5	•	•	•
Camden Square	110	c	c	•	48	39	•	-	1	•	•	94	•
Kensington Palace	80	mbc	bc o	•	49	36	27	-	1	•	(At 18h.) 91	91	•
Hampstead Observatory	450	•	•	•	47	31	26	1	0.1	1.7	•	94	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 28th

South Kensington

Max.	Time.	Min.	Time.
1.0	17h 27th	0.3	24.3h 28th

Kew Observatory

Max.	Time.	Min.	Time.
0.3	18h 27th	0.1	24.28th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 27th 17 h 00 m. to 28th 7 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.00	8.06	58
δ Ursae Minoris	14.00	6.05	43

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 15h. and 18h. reports (Hoar frost in 11h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

27th and 28th Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.7	11.55	15.42
	8.7	11.55	15.43
Greenwich	8.8	12.1	15.55
	8.8	12.2	15.56
Wick	9.6	12.19	15.22
	9.6	12.19	15.23
Valentia	8.51	12.22	16.34
	8.52	12.23	16.34

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. 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.
R = heavy rain. r₀ = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). { before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; + = has increased; - = has decreased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

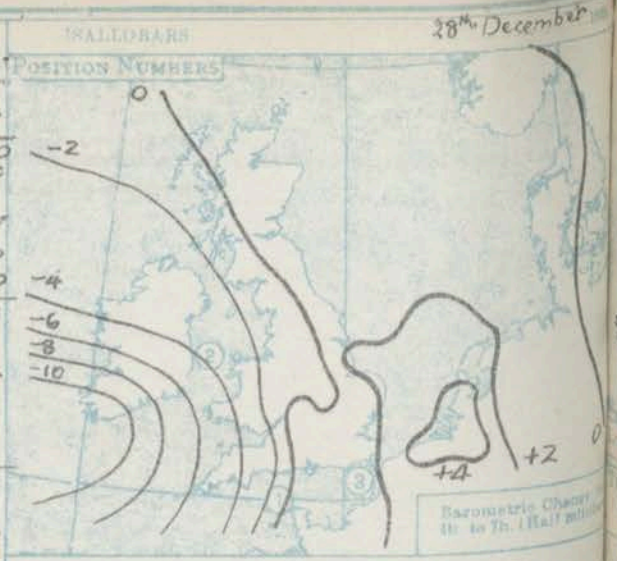
	Objects not visible at 55 yards.
0. Dense fog.	220 "
1. Thick fog.	550 "
2. Fog.	1,100 "
3. Moderate fog.	1¼ miles.
4. Mist or haze.	2½ "
5. Poor visibility.	4½ "
6. Moderate.	11½ "
7. Good.	31 "
8. Very good.	9. Excellent visibility, beyond 31 m.

† Trace = rain less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 27th	Weather. 13h.-18h. 27th	Weather. 18h. 27th to 1h. 28th	Weather. 1h.-7h. 28th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Night. 18h.-7h. began.	Sun. 27th Hours.
Lerwick	ar.	cbc	b	bcpbr.	45	36	•	0.3	<8.00	2	3.30	0.0
Stornoway	p	c	br.b	b-bc	40	34	•	1	<8.00	1	21.00	1.9
Wick	c	bbc	b-bc	b-bc	44	34	•	–	–	–	–	•
Tiree	bRbw	br	rc	c r	43	35	31	1	<8.00	2	21.00	2.7
Nairn	cbc	bcx	bcx	bc	41	33	•	–	–	–	–	1.0
Aberdeen	c3.	bcr.bc	bcbz.	bxz.	43	32	25	Tr.	15.30	–	–	0.0
Kalin Head	bcr.p.r	bcc p.r	bcpr.	bp.r.b	42	35	•	1	<8.00	1	21.00	1.8
Renfrew	cr.p.w.	cp.rhbc	bcr3	bcx	44	34	30	2	<8.00	1	21.00	1.1
Edinburgh (Inchkeith)	bcoircir.	cir.bc	bcir.c	cbcb	44	36	34	1	9.00	0.1	21.00	0.2
Leuchars	cm.c	cbcp.b	bbcb	bx	43	33	28	0.1	16.30	–	–	0.8
Eskdalemuir	bcciro	cprbcb	bx	bxcx	41	30	25	2	9.00	–	–	0.1
Tynemouth	coffp.	cbc	bc	bc	44	33	29	0.1	11.00	–	–	•
Blacksod Point ...	pq.c	phq.bc	pnq.bc	brc	44	38	•	3	•	1	•	•
Donaghadee	ir.bc	bc	b	bbcx	43	33	•	0.2	<8.00	–	–	•
Birr Castle	crc	cobir	bcb	bxcor.	42	33	26	3	<8.00	0.2	4.30	1.0
Helyhead	cbcm.	bccr.	oir.bc	bcb	46	40	36	0.5	16.30	0.4	21.00	2.6
Liverpool (Bidston) ...	crrb	bc	coir	bcb	44	35	31	1	<8.00	1	21.00	4.4
Chester (Sealand) ...	bc	bcy3.	cr6	bx	49	32	26	–	–	3	21.00	4.3
Harrogate	bccrb	jpbcb	bbcr.	bbcr.x	43	34	28	0.2	9.00	0.5	22.00	2.4
Spurn Head	crcbc	cbc	co	cpraba	46	34	•	0.2	<8.00	0.2	1.30	3.3
Birmingham (Edgbaston)	cbc	c	bcb	bx	46	32	29	–	–	–	–	1.8
Cranwell	cm.bc	c3.	bcm.	rmcbc	47	33	29	–	–	0.5	1.30	3.2
Gorleston	or.bc	bcc	bcorr	orrbc	49	36	33	3	<8.00	8	24.00	1.8
Valentia (Cahirciveen)	cpercplb	cp.bcPH	bccp	cir.	47	41	37	9	9.00	3	22.00	1.0
Roches Point	cir.c	cp.bc	bc	bcc	45	39	•	1	9.00	–	–	•
Pembroke (St. Ann's H.)	bccirq	cp.	bcp	bcc	49	42	•	9	12.30	0.4	21.00	0.0
Ross-on-Wye	crbcvc	cmrbc	cp.bcc	cbcc	47	36	28	0.4	9.00	1	21.00	2.2
Leafield	cr.c	cd.	rcb	bx	46	31	26	1	9.00	2	21.00	2.0
Winchester (Worthy Dn.)	bbcc	cbccrq	bcprbc	bcc	48	31	24	1	16.20	0.4	22.00	2.0
S. Farnborough ...	bccbc	bccorr	bpb	bcx	49	32	24	0.4	17.30	1	21.00	2.3
London (Kew Obsy.) ...	cm.bc	c3.	rcm.	bcm.x	49	35	27	–	–	1	21.00	2.1
Croydon	odcbcm.	bccm.	crm.b	b	49	36	31	0.1	<8.00	1	21.00	1.3
Shoeburyness	cirbcb	bbc	bbcr.	bc	50	34	31	0.3	<8.00	0.3	21.00	2.4
Clacton-on-Sea ...	orbc3	bc3	bbcz	czbc	47	35	30	1	<8.00	–	–	1.2
Felixstowe	orrmbc3.	bc3.03.	oz.rr	bcbc	49	35	31	1	<8.00	1	22.00	3.1
Lympne	oddfbc	bccm.	cprb	bzbcx	50	32	28	0.6	<8.00	1	21.00	2.5
Scilly (St. Mary's) ...	bcp.	bcp	bcp.	bccor	50	43	•	1	<8.00	0.4	24.00	4.2
Falmouth (Pendennis)	bcq	bccp.q	cbcP	bcodr.	50	42	•	0.2	15.30	0.4	21.00	3.2
Plymouth (Mt. Batten)	cr	cmqRbc	crb	b.c	50	41	38	1	<8.00	Tr.	21.00	0.5
Portland Bill	c	cipc	bcbc	bc	51	43	•	Tr.	15.30	–	–	•
Southampton (Calshot)	bcc	bccPqq	bc	bwxc	50	36	31	1	17.30	–	–	1.8
Dungeness	crrcrc	bc	bxrbclbl	bzbc	51	39	•	1	<8.00	0.3	21.00	•
Guernsey	prebc	cbcc	bphrc	cpror	53	43	38	2	<8.00	3	21.00	1.8



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	27th 10h.	HIBERNIA	WSW	6	bc	45	50
3	28th 2h.	HANDEL	WNW	6	H(R)	47	[illegible]

GENERAL INFERENCE.

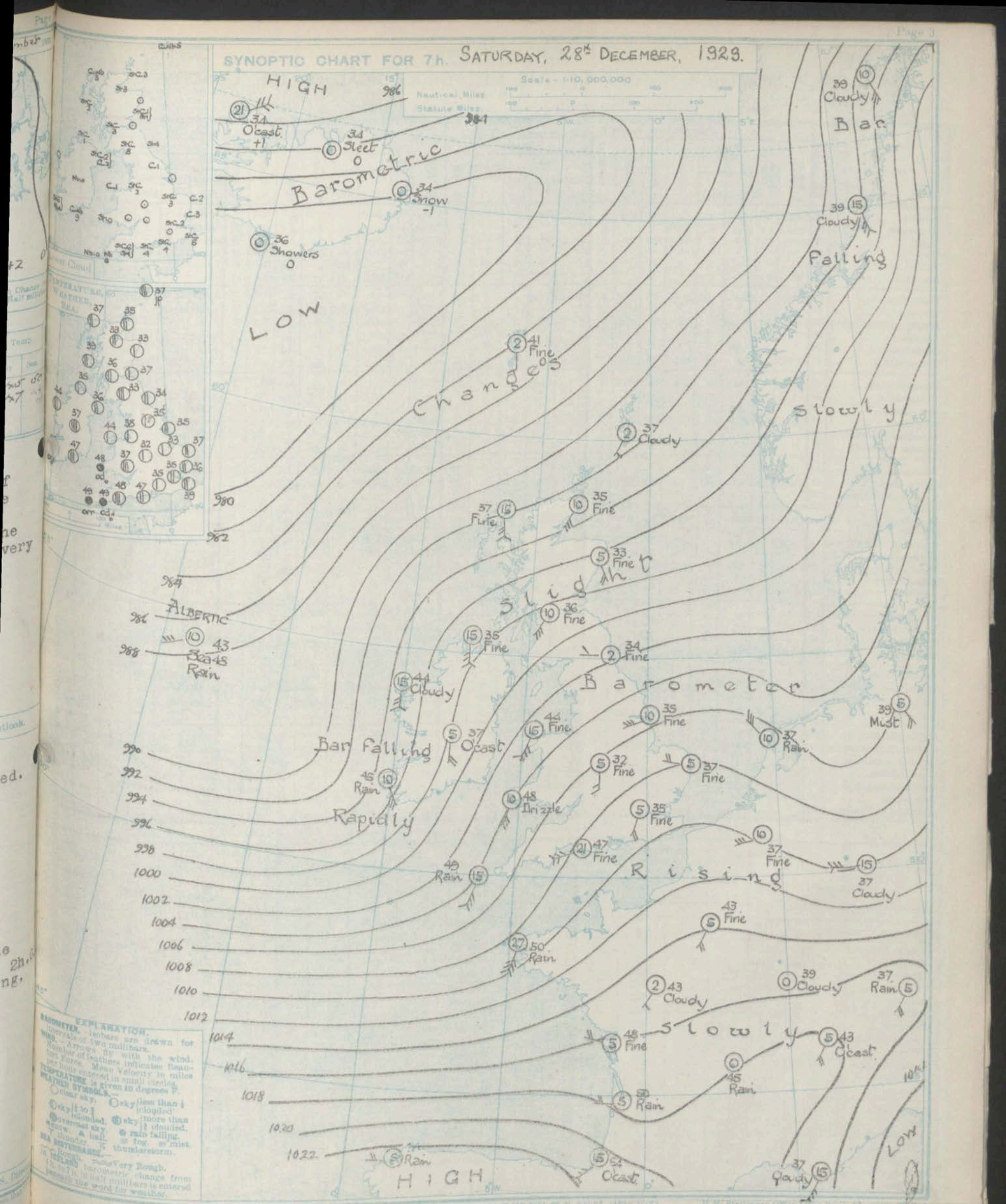
A deep depression off Western Ireland will move rapidly east-north-east and cause weather over the British Isles to become very unsettled generally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 28th December, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh to strong southerly winds, reaching gale force in exposed places, veering later; cloudy, rain, at first, showers and bright intervals later; rather mild.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Strong southerly winds, reaching gale force at times, veering later; cloudy, rain, at first, showers and bright intervals later; rather mild today, temperature falling a little tomorrow.	
8. N.W. England 9. N. Midlands	Strong southerly winds, reaching gale force at times, finally becoming westerly; cloudy, rain, at first, showers and bright intervals later; moderate temperature.	
10. N.E. England 11. S.E. Scotland	As 1 - 3.	South Cone hoisted at 2h. this morning.
12. S.W. Scotland, Isle of Man	As 8 - 9.	
13. A W. Scotland 13. R N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Fresh to strong southeasterly winds, stronger at times, probably backing; cloudy, some rain; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 7.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For Note see page 1

— rain has fallen, but amount less than 0.1


SYNOPTIC CHART FOR 7h. SATURDAY, 28th DECEMBER, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
Barometric
Changes
Slowly
Falling
Bar.
Slight
Barometer
Bar falling
Rapidly
Rising
Slowly
Low
HIGH
ALBERTIC
986
984
982
980
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
EXPLANATION.
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean Velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
Clear sky. Sky less than ½ clouded. Sky ½ to ½ clouded. Sky more than ½ clouded. Overcast sky. Fog. Mist. Shower. A hail. Thunderstorm.
SEA DISTURBANCE.
Smooth. Rough. Very Rough.
IN IRELAND barometric change from 7h. to 7h. in half millibars is entered beneath the word for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Saturday, 28th. December 1929. No. 362.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 28th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 28th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	34	990.2	0	SW	1	b	40	85	8	1500	Stu	2	-	2	991.3	+1	SW	1	c+jb	37	92	7	1500	Cu.Nb	5	A.St.	9	•
Stornoway	39	993.1	+1	SW	4	bc	*	*	8	*	*	*	*	3	991.2	0	S	4	bc	37	92	7	4000	Cu.Nb	3	-	3	2
Wick	31	993.0	+1	SW	2	b	35	85	8	4000	Stu	2	-	2	993.0	0	SW	3	bc	35	97	8	2500	St.Cu	3	C.St.	5	1
Tiree	26	*	*	*	*	*	*	*	*	*	*	*	*	*	994.1	-1	WSW	4	bc	39	75	7	4000	St.Cu	2	C.Cu.	4	5
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*	994.2	*	-	0	bc-	33	85	8	1500	St.	3	-	3	•
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	997.1	+1	SSE	2	b	33	92	6	-	-	0	C.	2	0
Malin Head	51	998.3	0	SSW	5	bc/p	37	97	7	2500	Cu.Nb	3	-	3	996.9	-2	S	4	b	35	97	7	3700	St.Cu	1	-	1	5
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	999.2	0	SW	3	bc	36	85	8	4000	St.Cu	3	-	3	•
Edinburgh (Inchkeith)	100	998.2	+1	WSW	4	c	37	92	7	1500	Stu	8	-	8	993.6	0	WSW	4	b	37	85	8	-	-	0	A.Cu.	1	2
Lenchars	50	*	*	*	*	*	*	*	*	*	*	*	*	*	997.9	+1	SW	3	b+	35	85	7	2500	St.Cu	2	-	2	•
Eskdalemuir	724	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.9	0	SW	2	c	33	92	7	2500	St.Cu	8	-	8	•
Tynemouth	67	999.8	+1	W	2	bc	38	85	7	2500	Cu	4	-	4	1001.5	+1	W	1	bc	34	92	6	800	St.	4	-	4	1
Blacksod Point ...	18	999.6	+1	W	4	bc	42	75	7	*	Cu.Nb	5	-	5	995.7	-3	S	4	c	44	85	7	*	-	0	A.St.	10	5
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	999.5	-1	W'S	2	bc	36	85	7	4000	Cu.	4	-	4	1
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	998.4	-4	S	2	0	37	92	7	2500	Nb	10	-	10	•
Holyhead	26	1004.5	+1	WSW	4	bc-	41	75	7	2500	Cu	3	-	3	1002.8	-2	SW'S	4	b	44	75	8	2500	Cu.	1	A.Cu.	2	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.6	-1	SW'S	3	b	38	85	8	1500	St.Cu	2	-	2	•
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.3	-1	SE'S	2	b	32	92	7	-	-	0	C.	1	•
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.4	0	SSW	4	b	35	85	7	4000	Cu.	1	C.	2	•
Spurn Head	29	1003.2	0	W'N	4	o	38	92	6	2500	Nb	10	-	10	1004.7	+1	WSW	3	bc	35	97	7	-	-	0	A.St.	3	2
Birmingham (Edgbaston)	686	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.6	0	S	2	b+	32	97	6	-	-	0	C.	2	•
Cranwell	236	1004.2	+1	W'S	3	C+	37	85	6	-	-	0	Ast	10	1006.5	+2	S'W	3	bc	33	92	6	4000	St.Cu	3	A.Cu.	5	
Gorleston	14	1005.1	+1	NW'N	2	orr	38	97	6	800	Nb	10	-	10	1007.8	+3	W	2	bc-	37	85	6	4000	Cu.	2	A.St.	4	
Valentia (Cahirciveen)P	30	1004.7	-1	W	1	c/sh	44	97	8	*	-	0	Ast	9	995.4	-11	SSE	3	o/c+	44	92	7	1500	St.	10	-	10	•
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	999.7	-8	SW	2	c	47	97	7	1500	Cu.Nb	9	-	9	4
Pembroke (St. Ann's H.)	150	1006.0	+1	W	4	bc	46	92	8	2500	Cu	4	-	4	1004.2	-4	SSW	3	oc/b	48	97	7	800	St.	10	-	10	2
Ross-on-Wye	226	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.7	0	S	1	c+	37	92	6	-	-	0	A.St.	9	•
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	-1	S'E	3	bc	31	97	7	-	-	0	C.St.	7	•
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.9	0	S	2	c+	33	97	7	2500	St.	9	A.St.	10	•
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.5	+1	S	3	b	35	97	6	-	-	0	C.	2	•
London (Kew Obsy.) ...	18	*	*	*	*	*	39	*	*	*	*	*	*	*	1008.6	+1	SSW	2	bc+	35	97	5	2500	St.Cu	2	C.St.	5	•
Croydon	244	1006.9	+2	W	4	b	39	92	7	1500	St	2	-	2	1008.9	+1	SSW	3	b+	36	92	7	-	-	0	C.	2	•
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.9	+2	WSW	2	bc	35	97	5	3700	St.Cu	4	-	4	2
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.2	+3	WSW	3	bc	36	97	7	2500	Cu.	3	-	3	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.8	+2	W	1	bc	36	85	7	4000	St.Cu	4	C.	6	•
Lympne	350	1006.4	+1	W	3	b	36	92	7	4000	Stu	2	-	2	1009.7	+3	W'S	3	bc+	33	97	8	-	-	0	C.St.	6	
Scilly (St. Mary's) ...	163	1010.3	+1	W'N	4	bc	46	85	8	4000	Cu	4	-	4	1008.7	-5	SSW	4	orr	49	97	6	2500	Nb	10	-	10	4
Falmouth (Pendennis)	200	1010.3	0	SW'W	2	bc	44	85	7	4000	Cu.Nb	7	-	7	1006.8	-3	SW'S	4	c/o	49	85	6	2500	Nb.	6	A.St.	10	1
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.9	-4	WSW	3	c+	48	92	8	4000	St.Cu	10	-	10	3
Portland Bill	33	1007.6	+2	W	5	bc	46	75	8	2500	Stu	5	Ast	6	1008.0	0	WSW	5	bc	47	85	8	2500	St.Cu	4	A.St.	6	4
Southampton (Calshot)	10	1008.3	+2	W	4	b-	41	85	8	4000	Stu	2	-	2	1009.4	0	SSW	1	c+	41	92	7	4000	St.Cu	5	A.St.	9	0
Dungeness	30	1006.5	+2	W	2	b-	40	92	8	-	-	0	-	0	1010.0	+3	NW	2	bc+	39	85	8	4000	St.Cu	5	A.Cu	7	3
Guernsey (St. Peter Port)	172	1011.4	+1	WNW	3	c	48	75	8	2500	Stu	8	-	8	1011.0	-1	SSW	2	or	48	92	6	1500	Nb	10	-	10	4

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 27th December

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-26th. to 9h.-27th. °F.	Temperature. Max. 9h.-17th. 27th. °F.	Rainfall.† Night 17h.-9h. 26th.-27th. mm.	Rainfall.† Day 9h.-17h. 27th. mm.	Sunshine. Sunrise to Sunset. 27th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	38	43	1	-	0.5
Douglas (I. o. M.) ...	bce	c	42	43	7	-	4.1
Llandudno ...	bc	bc	43	46	trace	-	4.2
Colwyn Bay ...	bcbc	cb	41	46	0.3	-	3.4
Rhyl	bcb	bc	40	47	2	-	5.0
Wallasey	cbcb	bbcb	40	46	3	-	4.1
Southport	coebcc	ohbcpc	*41	46	0.2	1.3	
Blackpool	orc	bco	42	45	4	-	1.8
Morecambe ...	cccb	cbcbc	40	45	4	0.5	2.5
Ilkley	cb	bcc	37	44	2	0.4	1.2
Cleethorpes	cb	bc	36	47	2	-	3.8
Mablethorpe ...	bcm	bm	35	47	3	-	4.4
Skegness	bcrb	b	37	47	4	-	4.2
Aberystwyth ...	bcp	bcp	44	47	3	1	0.1
Bath	bcb	bcr	41	48	3	1	1.6
Cheltenham‡ ...	obcb	cor	41	48	2	trace	1.8
Leamington Spa ...	(bc)	(bc)	38	47	6	-	4.5
Lowestoft	cbc	bco	37	49	3	0.1	2.5
Harwich & Dovercourt	bcc	bco	37	49	3	(trace)	4.3
Maldon	rbc	c	36	45	4	-	1.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	o	ohrc	44	50	5	7	0.0
Bude	bc	bcshP	45	48	2	4	0.1
St. Ives	c	cpcbc	44	50	6	0.5	2.1
Penzance	c	cbc	46	51	7	-	2.9
Paignton	orrbc	bcpcyp	40	49	4	trace	0.1
Torquay	orcmo	cubcq	41	49	3	trace	0.3
Jersey	rcbc	bcp	46	52	3	1	2.0
Weymouth	cbc	ctlo	46	49	4	0.2	0.8
Bournemouth ...	cbbc	od	41	48	4	0.3	1.2
Ventnor ...	orcou	cupr	43	50	1	-	2.6
Portsmouth (S'thsea)	b	bbc	42	50	2	-	2.3
Bognor Regis ...	bcb	bc	42	50	2	-	2.3
Littlehampton ...	bc	bcc	42	50	1	-	2.2
Worthing	cbc	bcc	43	51	2	-	2.6
Brighton	ocbc	bcc	44	50	3	-	2.0
Eastbourne	corcq	bcc	46	51	3	0.6	2.5
Hastings‖	obcbc	bcc	41	51	2	0.3	2.4
Folkestone	cbcc	bcc	39	51	2	-	2.4
Dover	bccbc	bccbc	43	51	2	-	2.4
Deal	rbco	bcb	38	50	3	-	2.2
Tunbridge Wells ...	cbc	cbcc	38	49	4	-	1.2
Ramsgate	bc	bcbbc	40	51	0.2	-	2.2
Margate	bcc	bccph	40	51	1	-	2.2
Southend	bbc	bcc	40	48	2	-	2.0

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received.

P The observations at 1h. G.M.T. from an auxiliary station.

† For code see page 1.

‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24874 Sunday 29th December 1929.

Observations at 13h. G.M.T. 29th

Stations. (For heights see p. iii.)	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	991.0	-1	S	2	bc	41	75	8	1500	Cu	6	-	6	•
Stornoway	990.0	-2	SW	3	o/pr₀	36	97	6	1500	Nb	10	-	10	•
Wick	993.4	+2	SW	3	bc	38	85	8	2500	StCu	3	Ci	5	•
Tiree	990.0	-5	SSW	7	c	41	85	7	2500	StCu	5	A.St	10	1
Balmy	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	996.0	-2	SSW	3	c+	36	85	6	2500	StCu	1	A.St	8	2
Malin Head	990.1	-9	SSE	4	cr₀	38	97	7	1500	Nb	9	A.St	10	•
Renfrew	995.9	-5	ESE	2	c	40	85	6	4000	St	4	A.St	10	2
Edinburgh (Inchkeith)	996.7	-2	SW	2	c	39	85	8	800	St	2	A.St	10	•
Lenchars	996.4	-4	-	0	c	35	85	7	4000	StCu	2	A.St	10	2
Eskdalemuir	996.8	-7	S'E	3	ors₀	35	92	6	800	Nb	10	-	10	2
Tynemouth	999.6	-2	SSW	2	o	38	85	6	1500	Nb	10	-	10	•
Blacksod Point	984.6	-13	S	4	crr	42	92	8	•	Nb	10	-	10	•
Donaghadee	992.9	-5	SW	2	or₀r₀	41	92	7	1500	Nb	10	-	10	•
Birr Castle	985.7	-12	S	3	orr	47	97	7	2500	Nb	10	-	10	•
Holyhead	994.1	-13	SE'S	5	cr₀+	43	97	6	2500	Nb	8	A.St	10	2
Liverpool (Bidston)	997.7	-7	SE	4	oD-	38	92	6	2500	Nb	10	-	10	•
Chester (Sealand)	998.1	-10	SE'E	4	or₀+	39	97	6	800	Nb	10	-	10	2
Harrogate	1001.5	-3	SSE	2	fo	36	85	3	2150	St	10	-	10	•
Spurn Head	1003.1	-2	S'W	4	c+	38	97	6	4000	StCu	3	A.St	10	•
Birmingham (Edgbaston)	1001.4	-8	SSW	4	or₀+	38	97	5	1500	Nb	10	-	10	2
Cranwell	1003.5	-6	SSE	3	o+	35	92	6	4000	St	10	-	10	1
Gorleston	1007.2	-1	S'W	3	c+	40	97	6	-	-	0	A.St	9	•
Valentia (Cahirciveen)	986.5	-4	SW'S	7	o/r	55	92	7	800	St	10	-	10	2
Roche Point	990.1	-11	SW	4	odd	52	97	6	800	Nb	10	-	10	•
Pembroke (St. Ann's H.)	992.7	-10	SE	5	orr	48	97	5	800	St	10	-	10	•
Ross-on-Wye	998.5	-10	SE	3	or₀r₀	44	92	6	2500	Nb	10	-	10	2
Leafield	1001.7	-6	SE	4	orr	39	97	5	220	Nb	10	-	10	2
Winchester (Worthy Dn)	1002.7	-11	SSE	5	orr	45	97	6	800	Nb	10	-	10	2
S. Farnborough	1003.2	-10	SSE	3	orr	44	92	6	800	Nb	10	-	10	2
London (Kew Obsy.)	1004.9	-8	S	4	o/r	44	85	5	1500	St	10	-	10	2
Croydon	1005.9	-6	S'W	3	ed₀d₀	43	92	5	800	Nb	4	A.St	10	2
Shoeburyness	1006.8	-3	SE'S	2	c+	44	97	7	2500	St	2	A.St	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1007.5	-4	S	3	c	43	85	7	1500	St	6	A.St	10	1
Dover	1007.5	-5	S	4	o	45	92	7	1500	St	10	-	10	2
Scilly (St. Mary's)	986.5	-7	WSW	7	orr	52	97	6	2500	Nb	10	-	10	•
Falmouth (Pendennis)	986.7	-12	SW'W	8	orr	53	97	6	2500	Nb	10	-	10	•
Plymouth (Mt. Batten)	987.5	-12	S	5	orr	51	97	5	220	Nb	10	-	10	2
Portland Bill	990.3	-12	SSW	7	oRR	49	92	5	800	St	10	-	10	•
Southampton (Calshot)	1003.9	-10	S'E	5	orr	48	92	6	1500	Nb	10	-	10	2
Dungeness	1007.2	-6	SW	4	cjp	48	92	7	1500	Nb	7	A.St	10	•
Guernsey (St. Peter Port)														

Observations at 18h. G.M.T. 29th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	989.5	-2	S	3	bc	42	75	8	1500	Cu	4	-	4	•
Stornoway	983.8	-7	SSE	4	o	42	92	6	1500	Nb	10	-	10	2
Wick	988.5	-5	SSW	4	bc	40	85	8	2500	StCu	3	Ci St	6	1
Tiree	979.1	-13	SE'S	7	crr	41	92	6	2500	Nb	8	A St	10	7
Balmy	985.9	•	W	1	bc+	38	85	8	1500	St	7	-	7	•
Aberdeen	990.3	-8	SSE	4	c/r	41	85	6	1500	Nb	7	A St	10	0
Malin Head	976.0	-19	SE	4	crr	42	97	6	1500	Nb	6	A St	10	5
Renfrew	986.1	-11	SE	5	or₀+	39	85	5	800	Nb	10	-	10	•
Edinburgh (Inchkeith)	987.9	-13	SE	3	ojp	39	92	8	800	St	10	-	10	1
Lenchars	988.2	-12	SE	4	orr	39	92	6	800	Nb	10	-	10	•
Eskdalemuir	986.3	-16	SSE	4	ors₀	35	92	6	800	Nb	10	-	10	•
Tynemouth	990.9	-12	S	5	or₀r₀	39	97	6	1500	Nb	10	-	10	2
Blacksod Point	975.4	-8	SW	7	oR	53	92	6	•	Nb	10	-	10	8
Donaghadee	979.5	-11	SSW	5	orr	46	92	7	1500	Nb	10	-	10	3
Birr Castle	981.3	-3	S	4	orr	55	85	7	2500	Nb	10	-	10	•
Holyhead	986.7	-5	SW'S	6	o	51	97	8	800	St	10	-	10	4
Liverpool (Bidston)	987.1	-8	SSE	5	cr₀r₀	43	97	7	2500	Nb	9	-	9	•
Chester (Sealand)	988.7	-8	S'E	4	o/r₀	43	97	5	800	Nb	10	-	10	•
Harrogate	990.7	-12	SSE	4	orr	38	97	4	2150	St	10	-	10	•
Spurn Head	992.3	-14	S'E	7	orr	41	97	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	992.6	-6	S	3	or₀r₀	46	97	5	1500	Nb	10	-	10	•
Cranwell	992.7	-14	SE'S	6	or₀r₀	42	97	6	800	Nb	10	-	10	•
Gorleston	993.9	-9	S'E	7	orr	44	97	6	800	Nb	10	-	10	4
Valentia (Cahirciveen)	982.8	-4	SSW	7	or₀	54	92	7	1500	St	10	-	10	6
Roche Point	987.7	-3	SW	4	cr	53	97	7	1500	Nb	9	-	9	4
Pembroke (St. Ann's H.)	990.6	0	SW	5	od₀d₀	51	97	5	800	St	10	-	10	2
Ross-on-Wye	992.3	-2	SW	4	od₀	53	85	7	1500	Nb	10	-	10	•
Leafield	993.7	-5	S	3	odd	48	97	4	2150	Nb	10	-	10	•
Winchester (Worthy Dn)	997.4	-5	SW'S	4	c/r	51	97	7	800	Nb	9	-	9	•
S. Farnborough	996.2	-7	SW	4	or-	49	97	5	450	Nb	10	-	10	•
London (Kew Obsy.)	996.2	-10	SSW	4	od-	48	97	5	1500	Nb	10	-	10	•
Croydon	997.3	-9	S'W	5	orr	48	92	5	450	Nb	10	-	10	•
Shoeburyness	998.3	-10	S'E	5	crr	46	97	7	1500	St	7	A St	10	•
Clacton-on-Sea	999.4	-13	SE	6	orr	45	97	6	2500	St	10	-	10	4
Felixstowe	999.7	-1	~~SSW~~ SE	6	orr	44	97	6	800	Nb	10	-	10	3
Lympne	1000.0	-9	S	5	or₀r₀	45	97	5	220	Nb	10	-	10	•
Dover														
Scilly (St. Mary's)	995.5	-1	WSW	7	or₀	52	97	6	2500	Nb	10	-	10	6
Falmouth (Pendennis)	996.9	0	SW'W	8	or-	52	97	6	2500	Nb	10	-	10	4
Plymouth (Mt. Batten)	997.3	0	SW	6	od₀d₀	51	97	6	2150	St	10	-	10	4
Portland Bill	996.5	-2	SW'W	7	or₀r₀	52	97	6	800	St	10	-	10	7
Southampton (Calshot)	998.0	-1	SWW	5	o/r	52	92	6	800	Nb	10	-	10	3
Dungeness	998.6	-12	S	6	orr	48	97	6	1500	Nb	10	-	10	4
Guernsey (St. Peter Port)														

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 8h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm. Day.	Rainfall. mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 8h. G.M.T. % (TO-DAY.)	Visibility.§
Kew	18	cm₀r₀	orm	fprcy	46	48	44	3	4	0.0	•	•	9
Croydon	244	cm₀r₀	cm₀dsr₀	mcgr	48	48	47	5	6	0.0	•	•	7
Greenwich (Royal Obsy.)	149	c⊕o	cddid₀	crrid	53	50	31	2	3	0.0	91	70	6
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	54	49	44	5	•	0.0	88	72	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	c	cor	•	51	48	•	3	5	•	•	79	•
Kensington Palace	80	odr	or	•	54	48	46	2	4	•	(At 18h) 97.	71	•
Hampstead Observatory	450	•	•	•	•	•	•			0.0	•	•	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 29th

South Kensington Max.	Time.	Min.	Time.
1.2	11h. 28	<0.3	1-7h 29th

Kew Observatory Max.	Time.	Min.	Time.
0.4	9h 28	<0.1	22h 28 to 7h 29

POLE STAR RECORD at Greenwich Obsy.

Exposure from 29th 17 h. 0 m. to 30th 07 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.0		
δ Ursae Minoris	14.0	NIL	

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 15K and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

For 30th December, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Thurso	8.07	11.55	15.43
	8.07	11.55	15.44
Greenwich	8.09	12.02	15.56
	8.09	12.02	15.57
Wick	8.06	12.00	15.53
	8.06	12.00	15.54
Valentia	8.52	12.45	15.34
	8.52	12.45	15.35

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
be sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
ra 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.
R = heavy rain. r₀ = slight rain.
rr = continuous rain.

SYMBOLS.

< = less than (for cloud height). < = before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.
With present weather is combined, wherever possible, the general character of the weather
| "solidus" divides actual existing weather from preceding conditions, thus:—b/r = fair weather after rain; — = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=roughness.
8=very rough sea.
9=mountainous sea.

¾ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

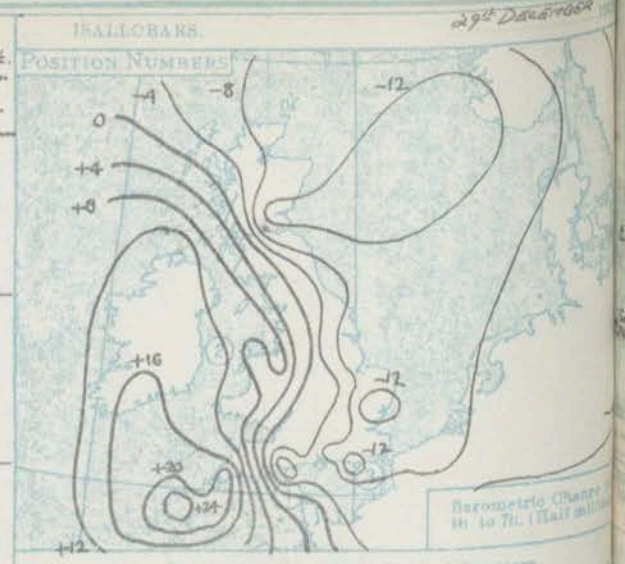
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2¾ "
6. Moderate.	6½ "
7. Good.	13¾ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	Weather. 7h.-18h. 28th	18h.-18h. 28th	18h. 28th to 1h. 29th	1h.-7h. 29th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun. 28th. Hours.
Lerwick	cbcphr₀	bc	bccir₀	corR	42	40	•	2	<8.00	12	2400	1.4
Stornoway	c	opr₀o	r	r-d	42	38	•	1	12.30	22	<2100	0.0
Wick	b-bc	b-bc	corr	orrbc	40	40	•	-	-	4	<2100	•
Tiree	c	cr₀r	rr	rrc	41	39	37	3	14.30	11	<2100	0.0
Nairn	bc	bcc	bccd	r₀c	39	38	•	-	-	2	<2100	0.0
Aberdeen	bxc	ccr₀	orr	or₀irc	41	41	39	Tr	17.30	7	<2100	0.0
Malin Head	bbccr₀	orrm₀m₀	cirbcc	bcr₀cpr₀	42	40	•	12	9.00	5	<2100	0.0
Renfrew	bcxccm	or₀c₀m₀q	orrmq	ocirq	40	36	35	1	13.30	18	<2100	0.0
Edinburgh (Inchkeith)	bbcc	c	orsrrr	orrcr	40	36	34	-	-	7	<2100	0.0
Leuchars	bbcc	corr₀orr	orrm₀r₀q	or₀rcirq	39	36	36	2	14.30	14	<2100	0.0
Eskdalemuir	cxcr₀s₀	oprs₀or₀	orsRRm₀	orrm₀c	36	34	32	3	12.30	29	<2100	0.0
Tynemouth	bcc	or₀r₀q	or₀rqq	oirq	39	39	35	1	14.30	6	<2100	•
Blacksod Point ...	rr	rq	rro	pcbc	54	43	•	7	•	5	•	•
Donaghadee	coir₀	orr	cqir₀	cpr₀	46	44	•	9	11.00	4	<2100	•
Birr Castle	orr	orr	orr	orrbc	54	42	37	9	<8.00	6	<2100	0.0
Holyhead	bcr₀r₀	rir₀	ir₀rq	r₀r₀cm₀q	51	47	46	6	9.00	7	<2100	0.0
Liverpool (Bidston) ...	bor₀r	or₀rq	r₀bc	orrP	43	43	42	5	11.00	4	<2100	0.0
Chester (Sealand) ...	cm₀r₀	or₀m₀r	od₀d	oRRr₀q	43	43	41	4	11.00	6	2400	0.0
Harrogate	bbccof	ofmrr	orrocqir	cqir	38	38	37	5	13.30	8	<2100	0.0
Spurn Head	bcc	corr	orrrpr	odcprc	42	41	•	3	14.30	2	<2100	0.0
Birmingham (Edgbaston)	cr₀r₀	orr	or₀d₀	od₀r	46	45	41	7	<8.00	5	<2100	0.0
Cranwell	bcom₀	or₀fr	orrdm₀	cirm₀	42	41	39	4	13.30	1	<2100	0.0
Gorleston	bcc	corrq	orroq	orq	45	44	44	3	15.30	6	<2100	1.8
Valentia (Cahirciveen)	cr₀r₀o	opr₀ir₀	cr₀cir	bccph	55	44	42	7	<8.00	7	<2100	0.0
Roches Point	codd	odcir	orrc	cqbc	54	44	•	4	9.00	5	<2100	•
Pembroke (St. Ann's H.)	orrqm	cirrq	orrqm₀	orrqm	52	46	•	5	<8.00	9	<2100	0.0
Ross-on-Wye	coddr₀	r₀r₀d	oddr	rrqrdq	53	48	45	9	9.00	13	<2100	0.0
Leafield	cmrr	ordd	rro	orqpr	48	46	44	6	11.00	5	<2100	0.0
Winchester (Worthy Dn.)	cmmorr	orrm₀	cd₀or₀r	orrm	51	49	48	8	11.00	8	<2100	0.0
S. Farnborough ...	bccmorr	orrm₀	or₀o	orrR	49	49	48	6	11.00	8	<2100	0.0
London (Kew Obsy.) ...	cm₀r₀	orm₀	c.cq	cqrrcq	48	48	44	3	11.00	4	<2100	0.0
Croydon	cm₀r₀d₀	cm₀dr₀rr	oddr₀r₀	orqrrddq	48	48	47	5	11.00	6	<2100	0.0
Shoeburyness	bcm₀	corr	or₀r	oqr₀r	46	45	45	2	14.30	1	<2100	1.0
Clacton-on-Sea ...	bcc	cocgr	ogrrc	cr	45	44	43	2	15.30	3	<2100	1.8
Felixstowe	bcz₀c	codrr	orr	orr	45	43	40	3	14.30	3	<2100	2.0
Lympne	bcvc	cor₀rm₀	or₀FF	or₀f₀r₀r	46	45	44	3	13.30	5	<2100	1.0
Scilly (St. Mary's) ...	orr	orir₀	oirq	orbcp	53	45	•	10	<8.00	6	<2100	0.0
Falmouth (Pendennis)	orrm₀q	orrm₀q	cmrq	orbcqm	53	48	•	10	<8.00	7	<2100	0.0
Plymouth (Mt. Batten)	corrm₀q	orrddq	oddm₀q	odcRq	53	46	47	9	<8.00	5	<2100	0.0
Portland Bill	cRRm₀	oR₀r₀z	oRR	or₀r₀z	53	47	•	7	<8.00	4	<2100	•
Southampton (Calshot)	cmrorm	orrddm	oddm	or₀r₀m₀q	52	49	49	7	11.00	4	<2100	0.0
Dungeness	bcc	cr₀r₀orr	odd	oddqorq	48	43	•	3	12.30	3	<2100	•
Guernsey			oro	oroc	53	51	46			1	<2100	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.
1	28th 12h	St Helier	S	7	rr	51	51
2	" 10h	Hibernia	S	5	r₀+	47	50
3	29th 3h	Dieppe	WSW	6	r	52	50

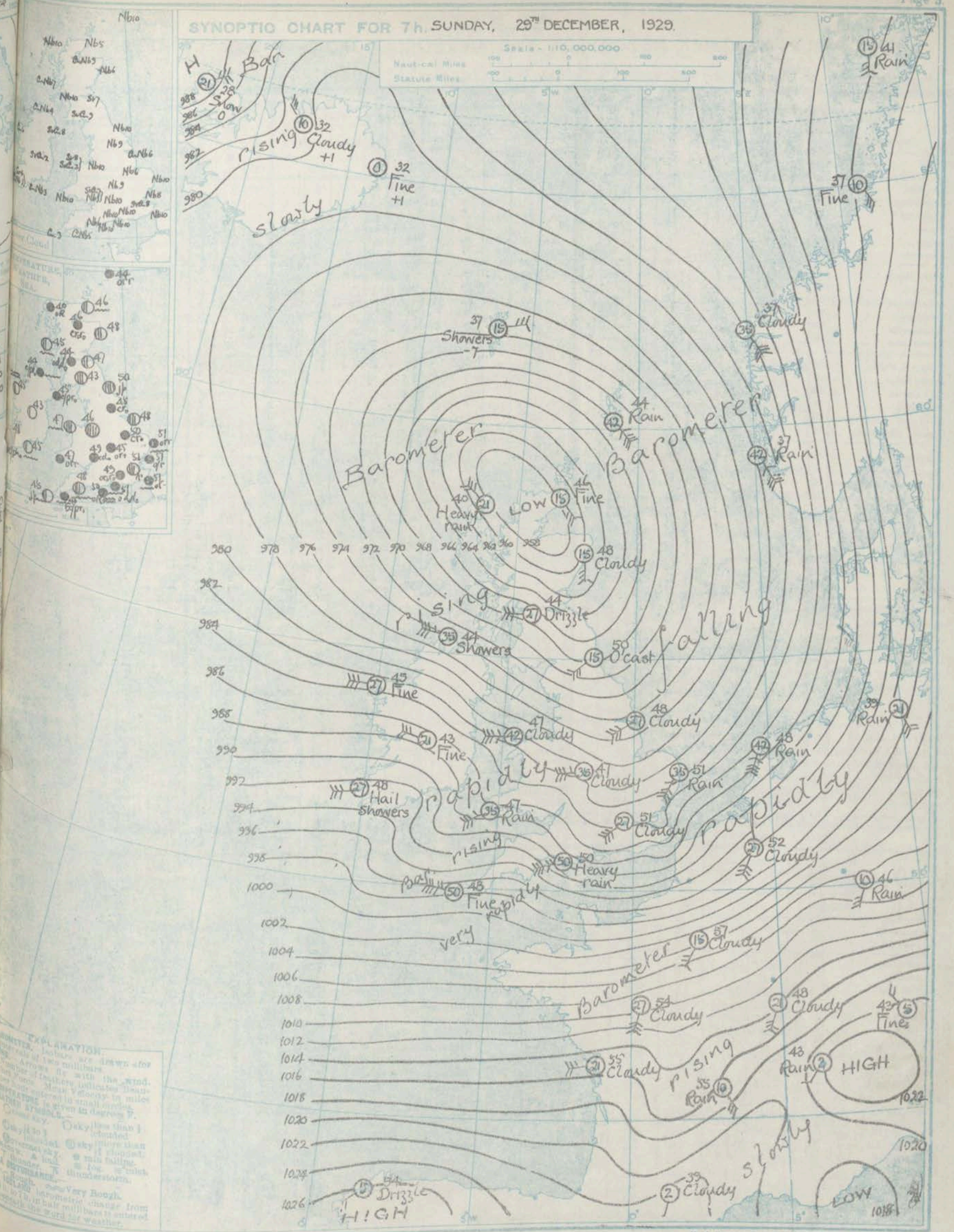
GENERAL INFERENCE.

A very deep depression centred over Northern Scotland moving northeast and a very rap pressure rise is occurring in t rear. Strong westerly gales will be general veering towards northwest in western districts. Bright periods will spread from the west to all districts durin the day but heavy showers of ra or hail will be general accompanied by thunder locally. Some decrease in temperature wi occur generally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 29th. December. 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Westerly winds, strong to gale, squally, moderating gradually, cloudy and bright periods, heavy showers of rain or hail, local thunder, temperature falling somewhat, perhaps local ground frost.	Unsettled.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland Isle of Man 13 A. W. Scotland B. N.W. Scotland 14. Mid-Scotland	Westerly winds, strong to gale, squally, moderating gradually, cloudy and bright periods, heavy showers of rain or hail, sleet showers on high ground, local thunder, temperature falling somewhat, perhaps local ground frost.	ψ South Cone flying all Coas
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland	Southerly winds, strong to gale, veering and moderating later, cloudy, occasional rain at first, showers and bright periods later, temperature falling somewhat.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 - 14.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1230 G.M.T. — C. C. SIMPSON, C.B., D.Sc., F.R.S., Dir.

† For code see page 1 — Trace = rain was taken, but amount less than



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Sunday, 29th December 1929. No. 363.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 29th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 29th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	54	962.8	-8	SE	4	or.G	43	75	7	1500	Nb	10	-	10	983.2	+4	SE	8	orr	44	97	7	1500	Nb	10	-	10	.
Stornoway	50	967.7	-17	NE	4	orr	*	*	6	*	*	*	*	10	958.3	-6	NW	5	oR	40	97	6	1500	Nb	10	-	10	4
Wick	81	973.1	-18	SSE	2	orr	42	97	7	1500	Nb	10	-	10	959.3	-10	SE	4	bc	46	97	8	1500	Nb	5	A St	7	6
Tiree	33	*	*	*	*	*	*	*	*	*	*	*	*	*	966.1	+10	NW'N	8	bc	45	75	7	2500	Cu Nb	7	-	7	7
Nairn	62	*	*	*	*	*	*	*	*	*	*	*	*	*	956.9	*	-	0	cr.r.	46	92	7	800	Nb	9	-	9	.
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	960.7	-9	S	4	c	48	97	7	1500	Nb	6	A St	10	4
Malin Head	81	964.6	-12	S	6	bc.jp	51	97	7	4000	Nb	4	-	4	975.0	+15	WNW	7	c.pr.	44	85	7	2500	Cu Nb	4	A St	9	7
Renfrew	85	*	*	*	*	*	*	*	*	*	*	*	*	*	968.0	+4	W	6	od.	44	75	8	800	Nb	10	-	10	.
Edinburgh (Inchkeith)	100	972.3	-15	SW	4	orr	49	92	8	800	Nb	10	-	10	963.6	-10	W	8	bc	47	85	8	1500	St	7	-	7	3
Leuchars	20	*	*	*	*	*	*	*	*	*	*	*	*	*	961.5	+12	SW	6	c.r	50	75	8	1500	Nb	8	-	8	.
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	965.4	0	W'S	6	c	43	75	7	1500	St Cu	9	-	9	.
Tynemouth	67	978.1	-6	S	2	o.jp	49	92	6	1500	Nb	10	-	10	967.9	-7	SW	4	o.jp	50	85	7	1500	Nb	10	-	10	4
Blacksod Point	18	970.5	-3	W	8	C	46	85	7	*	-	0	A St	10	983.9	!	W	6	bc	45	65	7	*	Cu	6	-	6	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	974.3	+12	SW	4	c.pr.	45	75	7	4000	St Cu	8	-	8	2
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	986.0	+12	WNW	5	b	43	75	8	4000	St Cu	2	-	2	.
Holyhead	38	978.3	-10	SSW	5	or-	51	97	6	800	Nb	10	-	10	981.2	+12	W	8	c	47	75	6	1500	St	10	-	10	6
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	978.0	+7	WNW	8	o	46	85	8	2500	Nb	10	-	10	.
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	979.6	+10	W	7	c	49	65	7	800	Nb	9	-	9	.
Harrogate	473	*	*	*	*	*	*	*	*	*	*	*	*	*	974.8	0	SW'W	8	cr.	45	85	7	2500	Nb	9	-	9	.
Spurn Head	29	984.3	-2	SW'S	4	od.	49	97	7	2500	Nb	10	-	10	974.5	-8	SW'W	6	c	48	92	8	4000	Cu Nb	6	A Cu	8	4
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*	981.2	+1	W	7	c.r	47	75	8	2500	Nb	9	-	9	.
Cranwell	256	985.6	-7	SSW	5	c	53	85	6	2500	Sc Cu	6	A St	10	976.2	-8	SW'S	7	cr.	50	85	6	1500	Nb	6	A St	10	4
Gorleston	14	991.5	-4	SW'S	5	0	52	97	6	1500	Nb	10	-	10	981.4	-10	SSW	7	orr	51	97	6	1500	Nb	10	-	10	.
Valentia (Cahirciveen) P	20	979.8	+6	WNW	7	OR	46	97	8	*	St	10	-	10	992.9	+11	W'S	6	bc.ph	48	75	7	1500	St	7	-	7	6
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	992.6	+16	SW	5	bc	45	92	7	1500	Cu Nb	3	-	3	3
Pembroke (St. Ann's H.)	150	981.0	-13	SSW	7	orr	51	97	5	800	St	10	-	10	986.1	+13	WSW	7	orr	47	97	7	800	Nb	10	-	10	.
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	985.1	+8	W	7	cd.	49	65	8	2500	St Cu	10	-	10	.
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	982.4	-1	WSW	5	ort	45	95	8	1500	Nb	10	-	10	.
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	985.1	-3	SW'W	6	or	50	97	6	800	Nb	10	-	10	.
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	9.4.0	-8	SW	6	or.r.	49	92	6	220	Nb	10	-	10	.
London (Kew Obsy.)	18	*	*	*	*	*	53	*	*	*	*	*	*	*	985.4	-6	SW	6	c.r.	51	85	7	800	St Cu	8	A St	10	.
Croydon	244	984.3	-3	SW'W	5	or.r.	53	92	5	450	Nb	10	-	10	984.7	-9	SW'W	6	odd	50	92	5	450	Nb	10	-	10	.
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	984.1	-8	SW	8	cr.r.	51	92	7	800	St	8	A St	10	5
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	984.7	-14	WSW	6	cr	50	85	6	4000	Nb	8	-	8	7
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	984.9	-12	SW'S	8	o.r	51	85	6	1500	St	10	-	10	.
Lympne	350	986.5	-2	SW	6	or.r.	50	97	3	220	Nb	10	-	10	986.6	-9	SW'S	9	orr	49	92	4	220	Nb	10	-	10	.
Scilly (St. Mary's)	162	985.2	-12	SW	8	or-	52	97	6	2500	Nb	10	-	10	997.4	+24	W'N	9	bc.pr.	48	75	7	4000	Cu	3	-	3	7
Falmouth (Pendennis)	200	987.8	-11	SW'S	2	orr	52	97	6	2500	Nb	10	-	10	996.0	+18	W'S	8	bc.pr.	48	75	7	4000	Cu Nb	5	-	5	6
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	995.5	+20	WSW	8	c	48	75	7	1500	Nb	6	Cu	9	7
Portland Bill	32	993.0	-7	SSW	8	or.r.	52	92	6	800	St	10	-	10	986.2	-9	W	9	oR-	50	85	6	1500	Nb	10	-	10	8
Southampton (Calshot)	10	995.0	-5	SW	7	old	52	92	6	220	St	10	-	10	985.8	-5	WSW	6	or.r.	51	92	6	800	Nb	10	-	10	6
Dungeness	30	995.3	-3	SW	6	ODD	51	97	4	800	Nb	10	-	10	985.4	-12	SW	9	or	51	97	7	1500	Nb	10	-	10	8
Guernsey (St. Peter Port)	173	998.4	+7	SW	5	c	54	85	7	2500	St Cu	10	-	10	999.9	+18	W	8	c	51	75	5	1500	St Cu	8	-	8	8

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28th December

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. to 9h. °F.	Temperature. Max. 9h.-17h. °F.	Rainfall.† Night 17h.-9h. mm.	Rainfall.† Day 9h.-17h. mm.	Sunshine. Sunrise to Sunset. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cou	r	39	38	-	0.1	0.0
Douglas (I. o. M.)	oorr	orrm	37	45	1	10	0.0
Llandudno	rr	rr	37	48	1	3	0.0
Colwyn Bay	ocrr	oror	36	52	1	5	0.0
Rhyl	bcod	cd.	34	45	1	3	0.0
Wallasey	cor	ORR	35	42	1	6	0.0
Southport	bcbbc	orr	*35	43	1	7	0.0
Blackpool	o	or	35	42	3	8	0.0
Morecambe	cor	or	34	42	3	6	0.0
Ilkley	o	o	33	41	4	-	0.0
Cleethorpes	xco	or	32	40	-	2	0.0
Mablethorpe	cxm.	cm.or	32	41	-	2	0.0
Skegness	bxb	bor	33	42	-	3	0.0
Aberystwyth	cpdr	omr	40	52	0.3	3	0.0
Bath	crr	rr.d.	34	53	1	6	0.0
Cheltenham	oir	oid	36	48	1	2	0.0
Leamington Spa	o	or	30	45	-	3	0.0
Lowestoft	be.2	copr	34	45	5	1	2.5
Harwich & Dovercourt	ocrbc	ocr	31	44	1	1	1.3
Maldon	bco	or	34	45	1	2	1.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	rr	rr	41	54	1	10	0.0
Bude	do	od.	42	53	0.1	4	0.0
St. Ives	rr	rr	43	54	2	14	0.0
Penzance	orr	orrdm	43	55	6	10	0.0
Paignton	orrdm	oddm	40	53	1	9	0.0
Torquay	orrdq	ormq	42	54	0.2	6	0.0
Jersey	rr	rr	47	54	1	9	0.0
Weymouth	orr	rrq	41	53	-	10	0.0
Bournemouth	oror	oror	38	52	2	8	0.0
Ventnor	our	orf	41	50	1	5	0.0
Portsmouth (S'thsea)	For	orr	37	52	1	8	0.0
Bognor Regis	codc	rr	36	49	1	6	0.0
Littlehampton	cor	or	33	48	1	4	0.0
Worthing	cir	orr	34	49	0.3	6	0.0
Brighton	co	or	35	50	1	6	0.0
Eastbourne	coroc	rr	38	49	1	7	0.0
Hastings	xmc	coror	35	48	1	4	0.9
Folkestone	xbcm	orr	34	47	-	2	1.3
Dover	bcc	cor	37	48	1	2	1.3
Deal	bcb	orr	35	47	1	3	0.1
Tunbridge Wells	bco	or	33	46	2	4	1.5
Ramsgate	bcb	cor	[illegible]	48	1	1	1.5
Margate	bc	bccr	[illegible]	47	-	1	0.9
Southend	co	or	34	45	0.4	2	[illegible]

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footer [illegible]

† At stations marked thus the maximum temperature is for the period 8h.-17h., the minimum for the period 21h.-9h. ● 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24875 Monday 30th December 1929.

Observations at 13h. G.M.T. 29th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	956.3	-8	SE	3	or	47	97	6	1500	Nb	10	-	10	•
Stornoway	970.3	+13	NW	6	c/pm	43	92	6	4000	CuNb	7	CiSt	9	•
Wick	982.1	+9	WNW	4	cr	42	92	8	1500	Nb	7	ACu	10	•
Tiree	979.2	+9	NW	7	bc/p	44	75	8	4000	CuNb	3	-	3	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	969.6	+14	WS	6	c	46	65	8	2500	Cu	1	ACu	8	2
Malin Head	983.0	+4	W	6	cr	43	92	7	2500	CuNb	9	-	9	•
Aldergrove	980.8	+12	W	6	bc/pr	44	75	8	1500	CuNb	4	-	4	2
Edinburgh (Inchkeith)	954	+13	WSW	6	bc	44	85	7	1500	St	2	ACu	6	•
Leuchars	979.6	+15	WS	6	b	45	65	8	2500	Nb	1	Cu	2	2
Baldslamuir	982.1	+10	W	6	bc/pr	41	65	8	2500	Cu	6	-	6	2
Tynemouth	981.3	+10	W	8	bc	45	65	7	4000	Cu	2	Cu	3	•
Blackpool Point	969.6	+5	W	8	bc	47	65	7	•	CuNb	6	-	6	•
Donaghadee	985.1	+6	WSW	7	c/pr	43	85	7	4000	CuNb	8	-	8	•
Birr Castle	995.6	+8	W	3	bc+	45	75	7	2500	CuNb	6	-	6	•
Holyhead	993.1	+7	WSW	8	bc-	48	75	7	1500	Cu	4	Cu	4	2
Liverpool (Bidston)	990.7	+9	W	7	bc-	46	85	7	1500	Nb	7	-	7	2
Chester (Sealand)	991.7	+9	WS	6	bc	48	55	8	800	St	6	Cu	7	2
Harrogate	988.0	+15	SW	8	b/PR	42	92	8	2500	CuNb	5	-	5	•
Spurn Head	988.2	+8	WNW	7	c-	45	75	7	4000	Cu	6	ACu	8	•
Birmingham (Edgbaston)	986.3	+9	WSW	5	bc/pr	46	75	8	2500	Cu	4	-	4	2
Cranwell	992.4	+15	WSW	6	bc	47	65	8	4000	Cu	3	-	3	1
Gorleston	992.8	+12	WSW	6	bc-	48	83	6	4000	Cu	5	-	5	•
Valentia (Cahirciveen)	1000.8	+5	SW	7	bc/pr	45	75	8	2500	Cu	6	-	6	2
Roches Point	1001.4	+9	W	4	bc	45	92	8	1500	CuNb	4	-	4	•
Pembroke (St. Ann's H.)	997.9	+6	WSW	7	c	49	85	7	2500	CuNb	8	-	8	•
Ross-on-Wye	998.6	+9	W	5	bc	48	55	8	4000	Cu	7	-	7	2
Leafield	998.4	+8	WSW	6	bc+	45	75	8	2500	Cu	4	ASt	7	2
Winchester (Worthy Dn.)	1002.4	+10	WSW	5	cr	46	75	8	1500	CuNb	9	-	9	2
S. Farnborough	1000.7	+9	WSW	6	bc/pr	49	65	8	800	CuNb	5	Cu	7	2
London (Kew Obsy.)	1000.2	+9	WSW	5	c	49	65	8	2500	Cu	8	-	8	2
Croydon	1000.3	+10	W	7	cr	49	65	7	1500	Cu	8	-	8	2
Shoeburyness	998.9	+12	WSW	7	bc	50	75	7	2500	Cu	6	-	6	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	997.4	+16	S	7	bc-	49	55	8	1500	Cu	3	-	3	2
Lympne	1001.0	+13	WS	6	bc	49	55	9	1500	St	5	-	5	2
Scilly (St. Mary's)	1006.6	+5	WS	8	bc/pr	50	75	7	4000	Cu	5	Ci	6	•
Falmouth (Pendennis)	1006.9	+7	WSW	7	bc/pr	50	65	7	4000	CuNb	6	-	6	•
Plymouth (Mt. Batten)	1006.4	+8	WSW	7	bc/pr	48	75	8	2500	CuNb	6	-	6	2
Portland Bill	1003.0	+11	W	8	bc-	50	65	7	4000 ~~2500~~	Cu	(6)	-	(6)	•
Southampton (Calshot)	1003.1	+7	WS	7	bc	51	65	8	2500	Cu	6	-	6	2
Dungeness	1001.4	+10	WSW	8	bc-	49	75	7	2500	Cu	5	-	5	•
Guernsey (St. Peter Port)	1010.4	+7	W	5	bc	52	65	6	2500	StCu	6	-	6	•

Observations at 18h. G.M.T. 29th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	954.5	-4	SW	1	or	46	97	6	1500	Nb	10	-	10	•
Stornoway	977.2	+8	WNW	6	bc/pr	41	92	6	4000	CuNb	7	-	7	5
Wick	970.7	+8	WNW	4	cr	39	97	8	1500	Nb	7	ASt	10	4
Tiree	985.2	+8	NW	7	bc/pr	43	65	8	4000	CuNb	3	-	3	7
Nairn	976.8	•	W	5	c/r	39	85	8	1500	CuNb	8	-	8	•
Aberdeen	977.3	+8	WSW	5	b	42	65	8	-	-	0	ACu	1	4
Malin Head	983.9	+9	W	6	b/p	43	75	8	4000	CuNb	2	-	2	6
Aldergrove	986.6	+8	W	5	bc/p	40	85	8	1500	Nb	5	-	5	•
Edinburgh (Inchkeith)	982.1	+9	WSW	6	bc	41	85	8	1500	St	4	-	4	4
Leuchars	982.2	+8	W	5	b+	39	75	8	2500	CuNb	2	-	2	•
Baldslamuir	986.9	+6	WS	7	o/r	38	92	6	800	Nb	10	-	10	•
Tynemouth	986.9	+4	W	6	bc/p	45	65	7	1500	Nb	5	-	5	4
Blackpool Point	995.1	+5	W	6	c	45	75	7	•	CuNb	8	-	8	7
Donaghadee	990.3	+6	WSW	5	c/PR	42	85	7	4000	CuNb	8	-	8	4
Birr Castle	993.3	+4	WSW	3	b	42	85	7	2500	CuNb	1	-	1	•
Holyhead	993.3	+5	WSW	8	bc	45	85	6	2500	Cu	4	-	4	6
Liverpool (Bidston)	992.2	+4	W	7	b	45	65	8	2500	CuNb	2	-	2	•
Chester (Sealand)	996.5	+3	WSW	4	b-	45	65	9	1500	St	1	-	1	•
Harrogate	994.6	+6	SW	7	b/PR	42	85	7	2500	CuNb	2	-	2	•
Spurn Head	994.7	+4	WS	5	bc	44	75	7	4000	Cu	3	-	3	4
Birmingham (Edgbaston)	1001.3	+5	SW	5	bc	44	75	7	2500	Nb	6	-	6	•
Cranwell	998.9	+7	SW	6	bc+	44	65	7	2500	SCu	7	-	7	•
Gorleston	1000.9	+5	WSW	4	b	47	75	7	-	-	0	-	0	4
Valentia (Cahirciveen)	1004.7	+4	SW	6	bc	47	55	8	2500	St	5	-	5	6
Roches Point	1005.2	+6	W	3	b	43	97	8	-	-	0	-	0	5
Pembroke (St. Ann's H.)	1004.0	+5	W	6	cD	47	97	7	2500	CuNb	7	ASt	10	5
Ross-on-Wye	1003.8	+4	WS	4	c	44	65	8	2500	Cu	8	-	8	•
Leafield	1004.1	+4	SW	5	b-	41	75	8	4000	Cu	1	-	1	•
Winchester (Worthy Dn.)	1007.2	+6	SWS	3	c+	42	75	8	2500	SCu	8	-	8	•
S. Farnborough	1006.0	+6	WSW	5	bcr	44	75	8	1500	CuNb	5	-	5	•
London (Kew Obsy.)	1006.1	+5	WSW	5	b+	46	65	8	2500	Cu	1	-	1	•
Croydon	1006.5	+5	WS	6	bc+	46	65	6	1500	St	5	-	5	•
Shoeburyness	1004.9	+9	WSW	6	b	46	75	8	4000	SCu	1	-	1	•
Clacton-on-Sea	1003.7	+7	W	5	bc	46	85	7	2500	Cu	3	-	3	4
Felixstowe	1004.2	+6	SW	6	b	46	75	7	-	-	0	-	0	6
Lympne	1006.8	+6	WSW	5	b	45	85	7	-	-	0	-	0	•
Scilly (St. Mary's)	1010.2	+3	W	8	bc	48	75	7	4000	Cu	4	-	4	7
Falmouth (Pendennis)	1010.6	+4	WS	7	bc/PR	47	65	7	4000	CuNb	4	-	4	3
Plymouth (Mt. Batten)	1010.2	+5	WSW	6	bc/pr	44	85	8	1500	CuNb	3	-	3	6
Portland Bill	1007.3	+7	WSW	8	bc-	48	75	8	2500	SCu	4	-	4	8
Southampton (Calshot)	1005.7	+5	WS	5	b-	46	65	7	4000	CuNb	2	-	2	6
Dungeness	1008.1	+8	SW	7	bc-	48	85	8	2500	Cu	3	-	3	6
Guernsey (St. Peter Port)	1014.0	+4	W	5	bc	49	75	6	2500	StCu	6	-	6	7

LONDON OBSERVATIONS.

Day 7h.-19h., Kew & Croydon. 9h.-18h., Kensington. 9h.-21h., other stations.

	Heights above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.§ (To-day.)
Kew	18	cprccy	cyprbcy	bcycycc	52	42	38	0.6	Tr	3.3	•	•	6
Croydon	244	bcbcbr	cyprbcy	wbcycc	50	43	38	1	0.1	3.3	67	90	6
Greenwich (Royal Obsy.)	149	cbc	cpfb	bcdr	50	42	33	0.3	1	2.3	•	•	•
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	1.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	51	43	38			2.4	73	86	•
Regent's Pk. (Botanic Gdns.)	158	•	•	•	•	•	•	•	•	1.8	•	•	•
Camden Square	110	oc	ccrc	•	48	42	•	3	1	•	•	94	•
Kensington Palace	80	cr	cpbc	•	50	43	32	1	1	•	(At 18h) 95	95	•
Hampstead Observatory	450	•	•	•	50	38	32	3	1	3.0	•	98	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 30th

South Kensington

Max.	Time.	Min.	Time.
0.6	14h 29m	<0.3	1h.-4h. 30m

Kew Observatory

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

POLE STAR RECORD at Greenwich Obsy.

Exposure from 29th 17h. 00m. to 30th 7h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	12.0	~~Alt~~	
β Ursae Minoris	14.0	12 41	91
		~~Alt~~ 12 01	86

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Slushy to-day in 15h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

30th & 31st Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.7	11.56	15.44
	8.7	11.56	15.45
Greenwich	8.8	12.2	15.57
	8.8	12.3	15.58
Wick	9.6	12.15	15.24
	9.6	12.15	15.25
Valentia	8.52	12.43	16.35
	8.52	12.44	16.36

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. ro = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☾ = lunar halo.

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

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

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	3½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

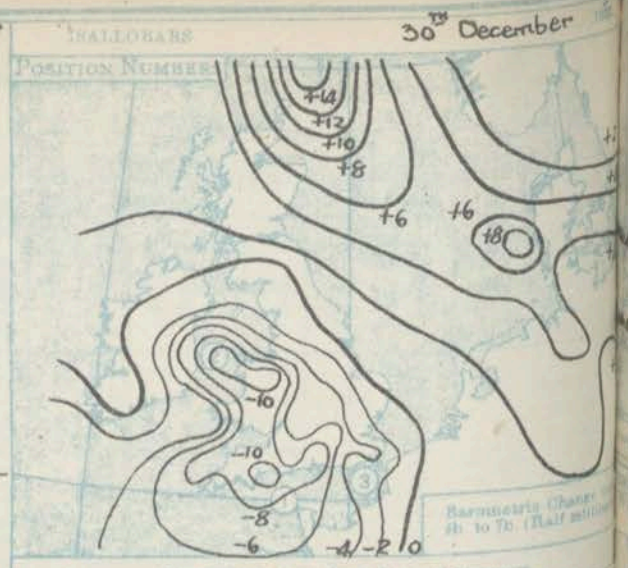
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 29th	18h.-18h. 29th	18h. 29th to 1h. 30th	1h.-7h. 30th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day, 7h.-18h. mm	began.	Night, 18h.-7h. mm.	began.	SUN 29th Hours.
Lerwick	orrirm	oirm	ORRq	cbeicq	48	38	•	5	<8.00	16	<2100	0.0
Stornoway	oRcPR	b	bphb	[illegible]	44	38	•	7	<8.00	0.2	<2100	0.1
Wick	prr	cr	cirh	ciRHocr	46	38	•	4	<8.00	10	<2100	•
Tiree	bcpR	prq	r Hq	prhq	53	37	33	0.5	11.00	4	<2100	2.2
Nairn	cRq	cPRq	PRqbc	qbcc	46	36	•	4	11.00	2	<2100	0.0
Aberdeen	cq	cb	b	b	48	37	32	–	–	–	–	3.0
Malin Head	cprcR	cir bcpr	bjpp	bbc	45	39	•	4	<8.00	Tr	2200	0.7
Renfrew	orcpq	bcpcrq	bccPq	crrbc	45	38	32	2	<8.00	4	<2100	1.6
Edinburgh (Inchkeith)	cbc	beir	bcprcr	bcrb	48	37	36	Tr.	16.30	7	<2100	2.2
Leuchars	cqbcbq	bq, b	bbccrrbc	bcb	50	36	32	–	–	0.1	2200	4.6
Eskdalemuir	cprpRbc	cbrorrm	orbcpr	bcir	43	35	32	10	<8.00	2	<2100	0.7
Tynemouth	obcq	bcpq	oirbq	bbcq	50	41	38	0.1	16.30	0.3	<2100	•
Blacksod Point ...	phcbc	phqc	pcbc	pcbc	48	40	•	5	•	1	•	•
Donaghadee	cqpr	cq PR	PRbc	b	46	35	•	7	<8.00	0.2	<2100	•
Birr Castle	bcprq	bcpr	bbc	bccir	46	38	31	1	<8.00	2	3.30	2.0
Holyhead	cbcbbccq	bcq	bccqb	b, cR	49	42	41	–	–	10	4.30	2.2
Liverpool (Bidston) ...	qcbcq	bcqbq	bcpqr	corr	47	40	38	–	–	5	<2100	2.2
Chester (Sealand) ...	cqdbcq	bcqq	bbcpr	cRR	49	41	36	0.1	<8.00	7	2200	3.4
Harrogate	cbcP	bbccQP	bbccQP	bbccQPocq	45	39	35	4	<8.00	7	<2100	1.1
Spurn Head	cq	cbcq	bcprq	bcc	50	40	•	–	–	Tr	2400	2.9
Birmingham (Edgbaston)	cprbc	bcpr	bcb	b. orr	47	39	37	0.2	<8.00	2	4.30	3.5
Cranwell	prbc	bc	bcb	b, cpr	51	40	36	0.3	<8.00	0.2	5.30	3.9
Gorleston	orbcq	bcbq	bq	bbcq	51	40	38	1	<8.00	–	–	2.3
Valentia (Cahirciveen)	cpbcp	bccphcpbcq	bcqcperR	cRphbc	48	44	40	1	<8.00	9	<2100	2.0
Roches Point	bcpbc	bcpb	b	bbccrrc	47	43	•	3	9.00	7	2.30	•
Pembroke (St. Ann's H.)	cq	cPHq	Cbcpq	cirqbc	50	45	•	1	14.30	6	2200	3.3
Ross-on-Wye	cqbcqbc	cpqbcPc	pqbcc	cor	49	42	38	0.2	11.00	4	<2100	3.0
Leafield	cbc	bccl	bl	bbcc	47	37	34	–	–	0.2	6.30	2.8
Winchester (Worthy Dn.)	ormcpr	cPRHbc	cpr	cbccorm	50	40	35	3	<8.00	2	2200	4.2
S. Farnborough ...	orrbcp	bccpbbc	bcpb	bcpor	49	40	36	2	<8.00	0.2	<2100	5.0
London (Kew Obsy.) ...	cprcq	cqprbcbq	bqbc	bccqrc	52	42	38	0.6	<8.00	Tr	6.30	3.3
Croydon	pdarmbcl	crbcqrr	bcbz	bzcr	50	43	38	1	<8.00	0.1	6.30	3.3
Shoeburyness	oqrrprbc	bcprbc	b	bbcc	52	42	39	0.6	<8.00	–	–	3.8
Clacton-on-Sea ...	crpbc	bc	bc	bc	50	42	38	3	<8.00	–	–	2.9
Felixstowe	orrkqbcq	bcqb	bc	c	51	41	38	0.6	<8.00	–	–	3.5
Lympne	orrqmbcl	bccprb	bl	blbcpr	50	41	37	2	<8.00	0.2	5.30	4.4
Scilly (St. Mary's) ...	bcp	bcpbcl	bcpbc	bccrbc	50	47	•	1	<8.00	3	2200	4.1
Falmouth (Pendennis)	bcPrq	bcPq	bccPq	bccPq	51	45	•	1	<8.00	4	<2100	2.9
Plymouth (Mt. Batten)	cqPRbc	cqprhbc	bcprqc	cqrr	50	44	41	0.6	<8.00	3	<2100	2.8
Portland Bill	oRrc	bclPbc	bc	bccP	51	43	•	0.6	<8.00	4	<2100	•
Southampton (Calshot)	orrcrcprqbc	bcq	bbcpcb	bbccqorr	52	43	40	1	<8.00	1	<2100	5.3
Dungeness	orqcrqbcq	bcqL	bcl bl	blbcPR	52	45	•	1	<8.00	1	5.30	•
Guernsey	prcbc	cprc	cbcc	corr	52	48	43	0.1	9.00	0.5	5.30	3.7

† For code see page 1

Trace = rain has fallen, but amount less than 0.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
3	30th 3h	Arundel	WSW	5	r	47	49

GENERAL INFERENCE.

Further depressions crossi the British Isles from the Atlantic will maintain unsettle conditions in all districts wit rain at times or showers of wintry type.

Districts. Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 30th December, 1929. Further Outlook.

1. S.E. England
2. E. England
3. E. Midlands

Fresh southerly winds, strong at times, veering later; cloudy, rain at times, occasional brighter intervals; moderate temperature, falling a little.

4. W. Midlands
5. S.W. England
6. South Wales
7. North Wales
8. N.W. England

Strong southwesterly winds, veering northwesterly, stronger at times; cloudy, rain at times at first, bright intervals, occasional showers later; moderate temperature, falling a little.

Unsettled.

9. N. Midlands
10. N.E. England
11. S.E. Scotland
12. S.W. Scotland & Isle of Man

Moderate variable winds, becoming fresh southerly then westerly, strong at times; cloudy, rain at times; moderate temperature.

13A. N.W. Scotland

Moderate westerly winds, becoming variable then fresh northwesterly; cloudy, rain at times; moderate or rather low temperature.

14. Mid Scotland
15. N.E. Scotland

Moderate or fresh northwesterly winds, bright intervals, showers; some snow on hills; rather low temperature.

16. Orkneys and Shetlands

As 13A.

17. N.W. Ireland

As 13B.

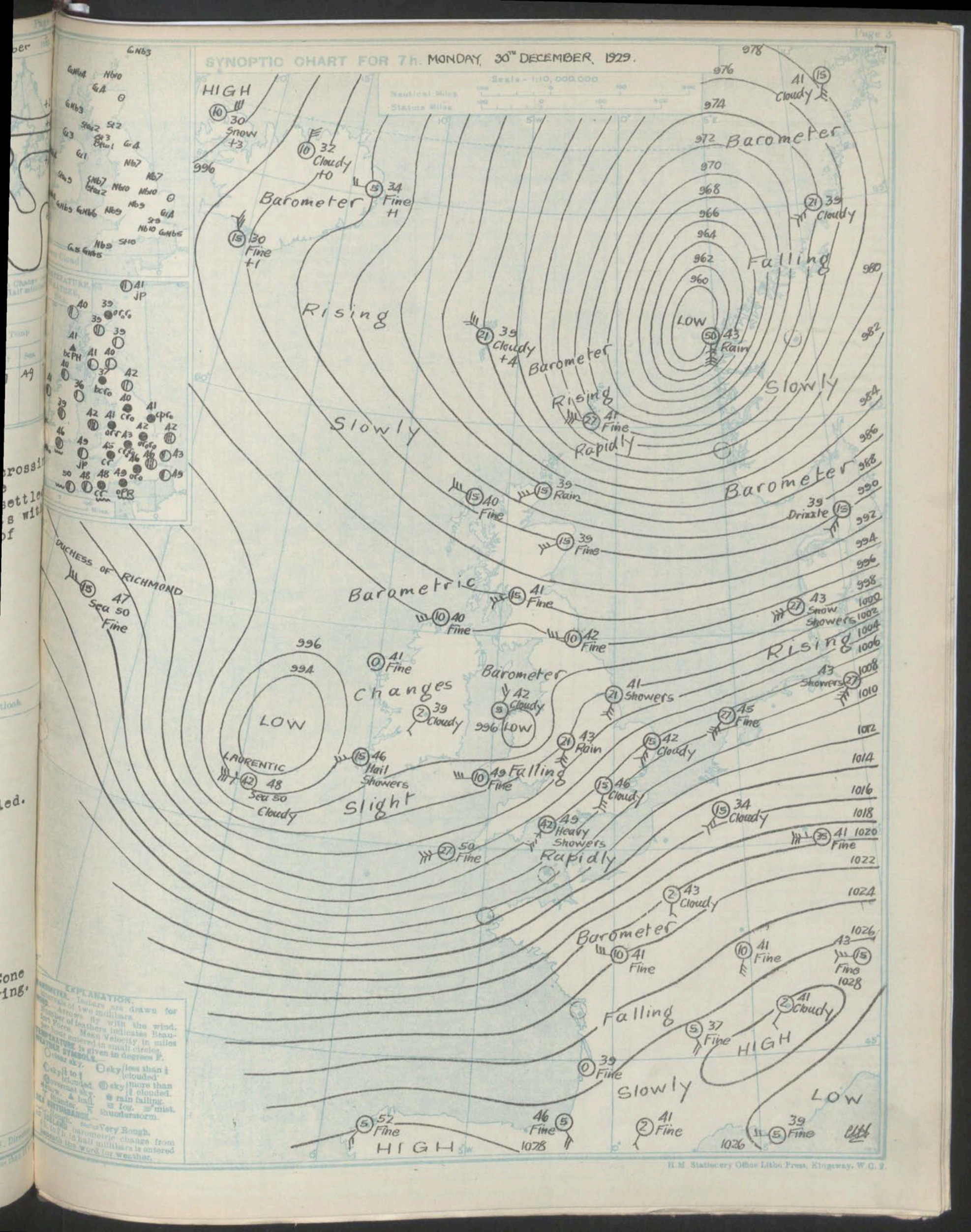
18. N.E. Ireland
19. S.E. Ireland
20. S.W. Ireland

Strong southerly or southwesterly winds finally becoming northwesterly; cloudy, some rain at first, bright intervals, showers later; moderate temperature, falling a little.

South Cone still flying.

WHP

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 30th December 1929. No. 364

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 30th: Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 30th: Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Rad. 0-9
Lerwick	54	992.6	+1.3	W	8	ORR	40	92	7	1500	Nb	10	-	10	974.9	+1.5	WNW	6	bcjp	41	85	7	1500	CuNb	3	ASt	6	*
Stornoway	30	986.0	+5	NW	3	b-	*	*	8	*	*	*	*	2	989.1	+4	WNW	4	bc	40	92	7	4000	CuNb	4	-	4	3
Wick	81	979.3	+6	WNW	6	Cr	40	92	8	1500	Nb	7	CiSt	9	986.1	+7	WNW	4	orr	39	92	8	1500	Nb	10	-	10	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	993.9	+2	NW'N	3	bc/pR	41	85	8	4000	CuNb	3	-	3	1
Nairn	32	*	*	*	*	*	*	*	*	*	*	*	*	*	989.4	*	W	3	bc-	39	75	8	2500	Cu	4	-	4	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	990.6	+5	WSW	4	b	39	75	8	-	-	0	ACu	1	0
Malin Head	81	995.4	+3	WSW	5	bjp	44	85	8	4000	CuNb	2	-	2	995.8	0	WSW	3	bc	40	97	8	4000	Cu	3	-	3	5
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	995.0	0	WSW	4	b-	41	85	8	2500	StCu	2	-	2	*
Edinburgh (Inchkeith)	100	991.6	+7	WSW	6	bcr	39	92	8	800	Nb	5	-	5	993.5	+2	W	5	b	40	85	8	1500	St	2	-	2	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	993.1	+3	WSW	3	b	37	85	7	4000	StCu	1	-	1	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	996.5	-1	SW	4	bcr	37	92	7	1500	St	4	-	4	*
Tynemouth	67	996.6	+8	W	4	b	42	75	8	-	-	0	-	0	995.7	0	W	3	bc	42	85	7	2500	Cu	4	-	4	2
Blacksod Point ...	18	998.5	0	W	4	bc	45	65	7	*	Cu	4	-	4	997.3	0	-	0	bc	41	85	7	*	StCu	4	-	4	5
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*	995.9	-1	W	1	b+	36	92	7	4000	Cu	1	-	1	0
Birr Castle	179	*	*	*	*	*	*	*	*	*	*	*	*	*	997.2	-1	SW	1	c	39	97	7	2500	StCu	9	-	9	*
Holyhead	28	1002.6	+3	WSW	7	b	45	75	6	1500	Cu	1	-	1	996.7	-10	NE'N	2	c/r	42	97	6	1500	Nb	9	-	9	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	997.4	-6	SE'E	3	orr	41	92	6	2500	Nb	10	-	10	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	997.6	-11	SE'S	3	oRR	41	97	6	1500	Nb	10	-	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	999.6	-1	SSW	3	cr	40	85	7	2500	Nb	7	ASt	10	*
Spurn Head	29	999.4	+3	W'N	6	bc-	43	85	7	4000	CuNb	3	-	3	1000.9	0	SW'S	5	c/pr	41	85	7	4000	Nb	7	ASt	10	4
Birmingham (Edgbaston)	595	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.4	-7	SSW	5	cr	43	92	7	1500	Nb	9	-	9	*
Cranwell	256	1003.4	+4	WSW	5	b-	41	75	7	-	-	0	-	0	1002.6	-2	SSW	4	orr	42	92	6	1500	Nb	10	-	10	
Gorleston	14	1004.2	+3	SW'W	4	b	42	85	7	-	-	0	-	0	1006.6	0	SW'S	4	Ct	42	85	7	-	-	0	ASt	9	
Valentia (Cahirciveen)¶	30	998.7	-6	S	2	oRR	47	97	7	*	St	10	-	10	996.9	-2	WSW	4	bc/ph	46	75	8	2500	CuNb	4	-	4	5
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	997.9	0	SW	4	c	46	97	7	1500	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	150	1006.3	-1	W	5	bc-	48	97	7	2500	CuNb	4	-	4	999.4	-2	W	3	bcjp	49	92	7	2500	CuNb	6	-	6	3
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.1	-8	SW'S	4	crr	45	92	6	2500	Nb	9	-	9	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.7	-4	S'W	6	clr	44	85	7	~~4000~~ 1500	StCu	10	-	10	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.6	-7	SSW	5	orr	45	92	6	800	Nb	10	-	10	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.4	-8	SW'S	5	or	46	92	6	450	Nb	10	-	10	*
London (Kew Obsy.) ...	18	*	*	*	*	*	43	*	*	*	*	*	*	*	1006.7	-6	SSW	4	clr	46	85	7	1500	St	9	-	9	*
Croydon	244	1010.5	+3	W'S	5	b	43	75	6	-	-	0	Cu	2	1007.9	-4	SW'W	5	crr	47	85	6	1500	Nb	7	ASt	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.2	-3	SW	5	c	46	92	8	4000	StCu	9	-	9	3
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.8	-2	SW	4	bc	43	92	7	2500	Cu	4	-	4	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	0	S'W	4	c	44	92	7	450	St	5	ASt	10	*
Lympne	366	1010.9	+2	SWW	4	b	41	85	7	-	-	0	-	0	1009.4	-4	SSW	6	c/pr	45	92	7	800	Nb	6	ASt	9	7
Scilly (St. Mary's) ...	162	1010.6	-3	SWW	7	bc	49	85	7	4000	Cu	4	-	4	1002.7	-7	WSW	6	bc	50	97	7	4000	Cu	5	-	5	3
Falmouth (Pendennis)	200	1012.3	0	SWW	6	c/PR-	49	85	7	4000	CuNb	8	-	8	1003.9	-5	WSW	7	bc-	48	97	7	4000	CuNb	5	-	5	7
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-9	SW	7	cr	48	92	7	1500	Nb	9	-	9	7
Portland Bill	32	1010.7	+2	WSW	7	bc+	50	75	8	2500	StCu	7	-	7	1005.0	-10	SSW	8	o/PR	49	97	7	1500	St	10	-	10	3
Southampton (Calshot)	10	1011.8	+2	W'S	4	b	46	75	8	4000	StCu	1	-	1	1008.2	-8	SW'S	7	orr	49	85	7	1500	Nb	10	-	10	5
Dungeness	20	1010.6	+5	WSW	6	bcl	46	92	8	-	-	0	-	0	1010.1	-3	WSW	6	bc/r	49	92	8	1500	CuNb	5	-	5	
Guernsey (St. Peter Port)	172	1016.4	+2	WSW	4	bc	49	75	6	2500	StCu	6	-	6	1010.2	-10	SW	4	orr	49	85	6	1500	Nb	10	-	10	

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29th December 1929

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 28th to 9h. 29th. °F.	Temperature. Max. 9h. 28th-17h. 29th. °F.	Rainfall.‡ Night 17h. 28th-9h. 29th. mm.	Rainfall.‡ Day 9h.-17h. 29th. mm.	Sunshine. Sunrise to Sunset 29th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cr	c	33	46	8	0.2	3.2
Douglas (I. o. M.) ...	bcc	bc	41	46	14	-	3.4
Llandudno ...	c	cpc	41	48	9	1	0.2
Colwyn Bay ...	cbbc	cbcbc	41	48	9	0.3	1.0
Rhyl	bcb	bcb	38	48	7	-	3.1
Wallasey	gcbc	bccb	37	48	5	-	1.0
Southport	bgcbcc	cgbcg	42	47	11	-	1.0
Blackpool	orc	bcc	36	47	14	-	0.7
Morecambe ...	orc	coire	36	47	22	1	1.3
Ilkley	crc	rc	35	44	31	4	0.0
Cleethorpes	cb	b	34	53	5	-	4.0
Mablethorpe ...	cbcgv	bcbvg	33	48	6	-	1.9
Skegness	rcb	b	34	49	5	-	3.6
Aberystwyth ...	cRbc	bc	42	48	12	-	0.6
Bath	pcpir	cbcp	41	49	4	2	2.8
Cheltenham ...	bcbbc	cpbc	46	54	12	trace	0.9
Leamington Spa ...	(bc)	(bc)	37	49	6	-	3.0
Lowestoft	cdic	bcicb	39	50	10	0.3	2.7
Harwich & Dovercourt	ocbc	b	49	51	6	-	4.6
Maldon	rcb	bc	45	51	9	-	3.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcco	Pth	43	51	8	4	0.5
Bude	bc	bcp	42	50	6	0.4	2.3
St. Ives	bcp	bcp	45	50	9	2	3.0
Penzance	cirhb	bcirh	45	52	9	3	2.8
Paignton	Rpqb	berpqb	46	51	6	1	3.5
Torquay	Rpbq	birpbq	46	51	4	2	3.5
Jersey	bcq	bcq	48	52	1	0.6	3.3
Weymouth	cpcq	gcb	45	52	4	0.1	0.0
Bournemouth ...	b	b	46	50	5	-	4.8
Ventnor ...	ormb	opc	46	(54)	4	(Trace)	0.0
Portsmouth (S'thsea)	cb	b	41	50	4	-	5.2
Bognor Regis ...	bcbcb	bbcc	44	51	5	-	4.9
Littlehampton ...	bc	pc	39	50	5	-	4.4
Worthing	crbc	bbc	36	52	4	Trace	4.7
Brighton	bccpbc	bcb	36	51	3	Trace	4.1
Eastbourne	gcbc	b	49	53	3	-	4.8
Hastings‖	copbc	bcb	48	52	7	0.4	4.8
Folkestone	orcbc	corbc	36	51	4	0.6	4.5
Dover	cbc	bccpb	41	52	5	Trace	3.6
Deal	roc	bcb	36	?	5	-	2.0
Tunbridge Wells ...	cbcop	opobc	32	49	7	2	0.3
Ramsgate	dpbc	bcb	42	53	2	0.2	4.3
Margate	bc	c	44	53	3	-	?
Southend	c	cb	36	49	2	-	0.0

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* Information not usually received.

¶ The observations at 1h. G.M.T., from an auxiliary station.

‡ For code see page 1.

‖ See footnote page

‡ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ✱ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24876 Tuesday 31st December 1929.

Observations at 13h. G.M.T. 30th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	9834	-8	NW	6	c/p	43	75	7	1500	CuNb	4	A.St	8	•
Stornoway	992.4	+1	WSW	1	bc/PH	39	97	7	2500	CuNb	4	A.Cu	6	•
Wick	990.4	+4	W	3	c	41	97	8	1500	CuNb	6	Ci.St	8	•
Tiree	995.9	+1	NW'W	4	bc/p	44	65	8	4000	CuNb	6	-	6	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	993.3	+4	SSW	2	b	43	65	5	2500	CuNb	1	Ci.Cu	1	1
Malin Head	997.9	+2	W	4	bch(r)	46	85	8	2500	CuNb	5	-	5	•
Renfrew	996.5	0	W	2	bc	44	75	7	2500	StCu	7	-	7	2
Edinburgh (Inchkeith)	995.0	-1	WSW	3	bc	42	85	5	800	St	5	-	5	•
Leuchars	994.4	+1	WSW	4	b	42	75	8	-	-	0	A.Cu	1	2
Eskdalemuir	996.5	0	N	1	bc	37	85	8	2500	Cu	3	Ci	4	2
Tynemouth	995.6	-1	WSW	1	fo-	41	85	3	1500	Nb	10	-	10	•
Blacksod Point	1002.2	+1	NW	3	bc	46	75	8	•	CuNb	4	-	4	•
Donaghadee	997.4	+1	W	2	b+	43	75	8	-	-	0	Ci.Cu	2	•
Birr Castle	1001.6	+4	WSW	1	c	41	97	7	2500	St	2	A.St	10	•
Holyhead	998.9	+2	WNW	3	c	45	85	8	1500	StCu	9	-	9	2
Liverpool (Bidston)	997.0	+3	NW N	4	c-	41	92	9	1500	CuNb	9	-	9	•
Chester (Sealand)	997.0	+4	NW'N	5	c	43	85	7	800	St	6	A.Cu	9	2
Harrogate	996.2	-1	NNW	4	orr	36	97	4	<150	St	10	-	10	•
Spurn Head	995.4	-2	SW'W	3	c+	45	92	7	4000	StCu	9	-	9	•
Birmingham (Edgbaston)	997.8	-3	SW	3	c	46	85	6	2500	Nb	5	A.St	9	2
Cranwell	996.3	-5	SW	4	c	47	85	7	1500	StCu	4	Ci	9	1
Gorleston	998.9	-7	SSW	5	c	46	92	6	2500	Nb	10	-	10	•
Valentia (Cahirciveen)	1004.3	+11	~~WSW~~ N	4	bc	45	75	8	1500	StCu	4	A.Cu	5	2
Roches Point	1001.2	+3	SW	2	bc	47	92	8	2500	CuNb	5	-	5	•
Pembroke (St. Ann's H.)	999.5	+1	NW	2	cr-	45	92	7	1500	CuNb	8	A.St	10	•
Ross-on-Wye	998.2	-2	WSW	4	c/r	45	85	8	2500	Nb	8	Ci	9	2
Lossiemouth	998.0	-3	SW'S	5	c	45	75	8	4000	Cu	4	A.St	10	2
Winchester (Worthy Dn.)	1001.2	-5	SW'S	4	or	46	92	6	800	Nb	10	-	10	2
N. Farnborough	1000.6	-6	SW'S	4	cr₀	46	92	7	800	Nb	9	-	9	2
London (Kew Obsy.)	1000.7	-6	SSW	5	c	47	75	7	800	StCu	8	A.St	8	2
Croydon	1001.2	-6	SW'S	5	c/r	46	85	6	1500	StCu	4	A.St	8	2
Shoeburyness	1001.8	+6	SW	5	or₀r₀	46	92	8	1500	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1001.2	-8	SSW	5	c d₀	46	92	7	800	St	6	A.St	10	2
Folkestone	1003.5	-7	SW	4	orr	44	92	6	450	Nb	10	-	10	2
Scilly (St. Mary's)	1001.7	0	WNW	5	bc	49	75	7	4000	StCu	7	-	7	•
Falmouth (Pendennis)	1002.3	-1	W'N	2	c/PR	45	85	8	4000	CuNb	6	A.Cu	9	•
Plymouth (Mt. Batten)	1001.5	-1	W	4	c/r	48	75	7	2500	CuNb	6	Ci	8	2
Portland Bill	1000.4	-3	SW	7	bc	50	75	8	1500	CuNb	6	A.Cu	7	•
Southampton (Calshot)	1001.8	-6	SW'S	6	c r₀	48	85	6	800	Nb	6	A.St	9	2
Dungeness	1003.3	-8	WSW	8	oR	49	97	7	1500	Nb	10	-	10	•
Guernsey (St. Peter Port)	1005.0	-6	WSW	4	c-	50	85	6	2500	StCu	8	-	8	•

Observations at 15h. G.M.T. 30th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground. 0-9
Lerwick	987.8	+5	W'N	3	bc	41	75	7	1500	StCu	3	A.St	5	•
Stornoway	994.4	+3	W	1	c/prs	38	85	6	2500	Nb	9	-	9	0
Wick	993.2	+3	W	2	bc	35	92	8	1500	CuNb	4	-	4	1
Tiree	998.2	+3	NW'N	5	bc/PH	43	75	8	4000	CuNb	3	-	3	3
Nairn	994.3	•	-	0	bc-	35	85	8	4000	Cu	4	-	4	•
Aberdeen	993.4	+3	WSW	2	b	37	85	6	-	-	0	A.Cu	1	0
Malin Head	1001.0	+3	WNW	5	bch(r)	42	97	8	2500	CuNb	4	-	4	4
Renfrew	999.0	+4	W	3	c+	39	85	7	2500	StCu	8	-	8	•
Edinburgh (Inchkeith)	996.5	+2	WSW	3	bc	40	85	7	800	St	3	-	3	0
Leuchars	996.6	+3	SW	2	b	34	85	8	4000	StCu	1	-	1	•
Eskdalemuir	999.2	+3	W	2	bc	36	92	8	1500	Cu	5	-	5	•
Tynemouth	998.4	+2	W	2	bc	38	85	6	2500	Cu	4	-	4	2
Blacksod Point	1006.3	+3	NW	4	bc	45	75	8	•	Cu	4	-	4	5
Donaghadee	1001.1	+5	W	1	b	37	85	8	4000	Cu	1	-	1	0
Birr Castle	1006.6	+6	WNW	1	b	40	92	7	4000	StCu	2	-	2	•
Holyhead	1003.3	+5	WNW	5	b-	45	85	8	2500	St	1	Ci	2	4
Liverpool (Bidston)	1001.3	+5	NW'W	4	b-	41	92	8	2500	Nb	1	-	1	•
Chester (Sealand)	1001.6	+7	NWW	2	bc-	41	92	8	1500	St	3	-	3	•
Harrogate	1000.0	+3	WSW	1	b	35	97	7	-	-	0	-	0	•
Spurn Head	999.9	+1	NW'N	4	o/r	41	92	6	4000	Nb	10	-	10	3
Birmingham (Edgbaston)	1002.1	+5	WNW	4	cr₀	41	85	7	1500	Nb	9	-	9	•
Cranwell	998.9	+6	NW	4	bc	39	85	7	1500	StCu	7	-	7	•
Gorleston	997.6	0	SW'S	4	bc	45	92	7	2500	Nb	3	A.St	5	1
Valentia (Cahirciveen)	1010.9	+7	WNW	4	bc	46	75	8	2500	St	5	-	5	4
Roches Point	1009.0	+7	NW	4	bc	44	92	8	2500	CuNb	4	-	4	5
Pembroke (St. Ann's H.)	1004.4	+6	NW	3	bc-	46	85	8	1500	CuNb	5	-	5	4
Ross-on-Wye	1002.5	+6	WNW	3	c	42	75	8	4000	StCu	6	A.St	8	•
Lossiemouth	1001.2	+3	NW	4	bc-	39	85	8	4000	StCu	3	A.Cu	4	•
Winchester (Worthy Dn.)	1001.6	+2	W	3	c	43	85	8	1500	StCu	7	A.St	10	•
N. Farnborough	1000.7	+2	W'S	2	c	43	92	8	4000	StCu	9	-	9	•
London (Kew Obsy.)	1000.5	+1	WSW	2	c	45	85	6	2500	StCu	9	-	9	•
Croydon	1000.7	0	W	4	bc/r	44	85	6	1500	StCu	3	A.Cu	6	•
Shoeburyness	999.9	-1	SW	4	o cr₀	45	97	7	800	Nb	10	-	10	•
Clacton-on-Sea	999.2	-2	SW	4	bc	45	92	7	2500	Nb	6	-	6	3
Felixstowe	999.1	-2	SW'S	4	bc	44	92	7	1500	StCu	5	-	5	3
Lympne	1000.4	-2	SW'W	4	o/h	44	85	6	450	Nb	10	-	10	•
Folkestone	1007.1	+6	NNW	6	bc	46	85	7	4000	Cu	6	-	6	6
Scilly (St. Mary's)	1005.8	+7	NW'W	4	c/PR	45	85	8	4000	CuNb	4	A.Cu	9	1
Falmouth (Pendennis)	1005.3	+8	W	1	bc	45	85	8	2500	CuNb	4	-	4	4
Plymouth (Mt. Batten)	1001.8	+2	WNW	6	c+	47	85	8	1500	StCu	9	-	9	7
Portland Bill	1001.6	+1	W'N	3	bc-	44	85	8	2500	StCu	2	Ci	3	0
Southampton (Calshot)	999.9	-3	SW	5	or₀r₀	47	97	7	1500	Nb	10	-	10	5
Dungeness	1005.8	+6	W	4	bc	48	85	7	2500	StCu	6	-	6	7

LONDON OBSERVATIONS.

Day: 7h-18h., Kew & Croydon. 9h-18h., Kensington. 8h-18h., other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility To-day.
Kew	18	ocrc	cpr	cmpbbr	46	37	31	6	0·1	0·3	*	*	5
Croydon	264	orrcpm	crtm	cbcbm	47	37	33	4	-	0·2	*	*	6
Greenwich (Royal Obsy.)	149	crrp	cp	cpcbm	47	36	27	3	0·3	0·1	89	89	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	49	36	28	5		0·1	94	87	*
Regent's Pk. (Botanic Gdns.)	188	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	orc	corcor	*	47	37	*	4	0·5	*	*	92	*
Kensington Palace	60	or	bcoro	*	47	37	29	4	0·3	*	(At 18h.) 92	91	*
Hampstead Observatory	480	*	*	*	46	32	26	4	0·1		*	94	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 31st

South Kensington Max.	Time.	Min.	Time.
1·0	30th 16h	0·3	31st 1h-4h

Kew Observatory Max.	Time.	Min.	Time.
0·3	21h 30	0·1	1h 31st

POLE STAR RECORD at Greenwich Obsy.

Exposure from ....h....m. to ....h....m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris			
δ Ursæ Minoris			

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 11h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.

1st Dec. to 31st Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Tarmouth	8·7	11·56	15·45
Greenwich	8·7	11·57	15·46
Wick	8·8	12·3	15·58
Valentia	8·8	12·3	15·59
	9·6	12·15	15·25
	9·5	12·16	15·26
	8·52	12·44	16·36
	8·52	12·44	16·37

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy

d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—10000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
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.
R = heavy rain. r₀ = slight rain.
rr = continuous rain.

SYMBOLS.
<= { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

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

Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

SEA DISTURBANCE.

0=no swell } Calm or slight sea.
1=mod. swell
2=heavy swell
3=no swell } Moderate sea.
4=mod. swell
5=heavy swell
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

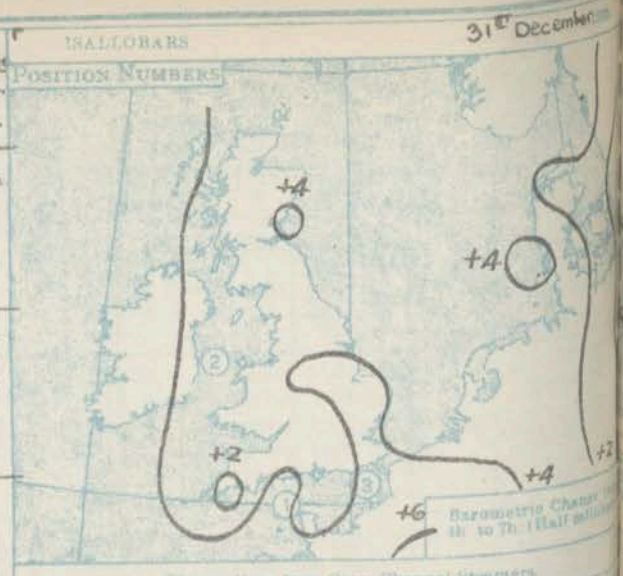
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	3½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 30th	Weather. 18h.-18h. 30th	Weather. 18h. 30th to 1h. 31st	Weather. 1h.-7h. 31st	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Night. 18h.-7h. began.	Sun 30th Hours.
Lerwick	bccoircq	cbcyr₀	bcpr₀	bc	43	37	•	2	<8.00	Tr	2400	0.0
Stornoway	p	p	b pr b	p	40	36	•	6	<8.00	3	2.30	0.5
Wick	or₀rc	b-bc	r₀ pr₀	orhrbc	42	33	•	6	<8.00	3	2200	•
Tiree	cPHrq	phq	pHrq	pHrq	44	39	36	4	<8.00	2	<2100	1.9
Nairn	bc	bcx	bcx	bcd	40	34	•	-	-	0.3	430	5.0
Aberdeen	bbz₀	bbz₀	bx	bx	43	33	24	-	-	-	-	4.1
Kalin Head	bcihr	bcihr	bcihrbphq	bbcihr	46	37	•	3	9.00	4	<2100	1.9
Renfrew	bbcm₀	bcp₀	cp₀bx	bcprx	44	35	29	0.2	14.30	1	<2100	3.8
Edinburgh (Inchkeith)	bbc	bcm₀	bcm₀b	b-bc	43	38	38	-	-	-	-	4.0
Leuchars	b	bbcb	bbcbx	bx	42	31	20	-	-	-	-	5.1
Eskdalemuir	bcir₀bc	bc	bcpr	bcpr	39	33	30	0.1	<8.00	0.2	<2100	1.2
Tynemouth	bcoff	offbc	bcbq	b	42	36	33	-	-	-	-	•
Blacksod Point ...	pbc	bcq	p bc	pbc	47	39	•	0.2	•	9	•	•
Donaghadee	b	b	b	bbcx	44	34	•	-	-	-	-	•
Birr Castle	cr₀oir₀	ocbc	bcr₀bc	bccr₀	42	35	30	1	<8.00	0.1	<2100	1.2
Holyhead	rir₀	pr₀c	b	bbcc	45	42	40	2	<8.00	-	-	0.2
Liverpool (Bidston) ...	gr₀rv	vcpbc	cp bc	bcq	44	41	38	4	<8.00	0.2	<2100	0.0
Chester (Sealand) ...	Rckqr	uprhbc	b bcpR	pRbc	49	40	34	3	<8.00	2	<2100	0.3
Harrogate	corrir	omircb	b	bx	40	35	29	7	<8.00	-	-	0.0
Spurn Head	cpr₀c	cpror	cbc	bc	47	38	•	2	<8.00	-	-	1.0
Birmingham (Edgbaston)	cpr₀c	cprbc	pr₀bcb	b	46	36	33	0.6	<8.00	0.3	<2100	0.0
Cranwell	orc	ckqc	c,bwm₀	bm₀	48	35	31	1	<8.00	-	-	0.8
Gorleston	cq	cqbcq	cod₀b	bm₀m₀b	48	34	33	-	-	0.2	<2100	0.0
Valentia (Cahirciveen)	cpbc	bcph₀bc	bcph₀	bcphb	47	41	35	1	<8.00	1	<2100	1.4
Roches Point	cbc	bc	bcbw	bw	47	40	•	-	-	Tr	-	•
Pembroke (St. Ann's H.)	ciRH	cbcq	bcbq	bccephq	50	43	•	3	9.00	Tr	6.30	0.0
Ross-on-Wye	cr₀dorq	ccp₀c	cfbcb	bbc	47	38	33	3	<8.00	Tr	<2100	0.6
Leafield	crc	cr₀pbcc	bc	bcb	46	34	28	2	<8.00	-	-	0.3
Winchester (Worthy Dn.)	orRm₀cR	o₀mcPRH	cprc	c	47	36	30	10	<8.00	0.4	<2100	0.1
S. Farnborough ...	orrcir	cirvc	cbccpb	bbwx	47	36	30	8	<8.00	0.3	<2100	0.2
London (Kew Obsy.) ...	ccrc	cpr	cm₀p₀b	bbx	48	37	31	6	9.00	0.1	<2100	0.3
Croydon	orrcr₀m₀	crrm₀	cbcbm₀	bm₀	47	37	33	4	<8.00	-	-	0.2
Shoeburyness	cprqorr	or₀cor₀	cbcb	b	48	36	34	2	9.00	Tr	<2100	0.5
Clacton-on-Sea ...	bccpd	cpdbc	bc	bc	46	36	32	0.5	9.00	-	-	0.0
Felixstowe	ccidr	cir₀	bcb	bw	47	36	34	0.3	9.00	-	-	0.0
Lympne	cprorr	orrcorh	cpRbcm₀	bbm₀	46	34	31	18	<8.00	1	<2100	0.1
Scilly (St. Mary's) ...	bcpbc	bcpbc	bcpbc	bcpbc	50	43	•	0.4	<8.00	2	<2100	1.3
Falmouth (Pendennis)	bccq	cbcPq	bccPqbc	bcP	50	42	•	2	11.00	4	<2100	1.3
Plymouth (Mt. Batten)	cRqprh	cqprh₀b	bccpr₀	bccpr	51	42	37	3	<8.00	1	<2100	1.0
Portland Bill	oPrcpc	cPbcc	cbc	bc	52	42	•	4	<8.00	-	-	•
Southampton (Calshot)	crmor₀	crprqm₀c	bcprbcb	bbcc	50	37	33	11	<8.00	0.1	<2100	0.5
Dungeness	bciRciR	ciRccr₀	orrbc	bc	49	38	•	13	<8.00	4	<2100	•
Guernsey	oproc	cpr c	bcbc	bc	51	46	41	14	<8.00	0.2	<2100	1.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2.	30th 10h	Cambria	NNW	3	r+	44	50

GENERAL INFERENCE.

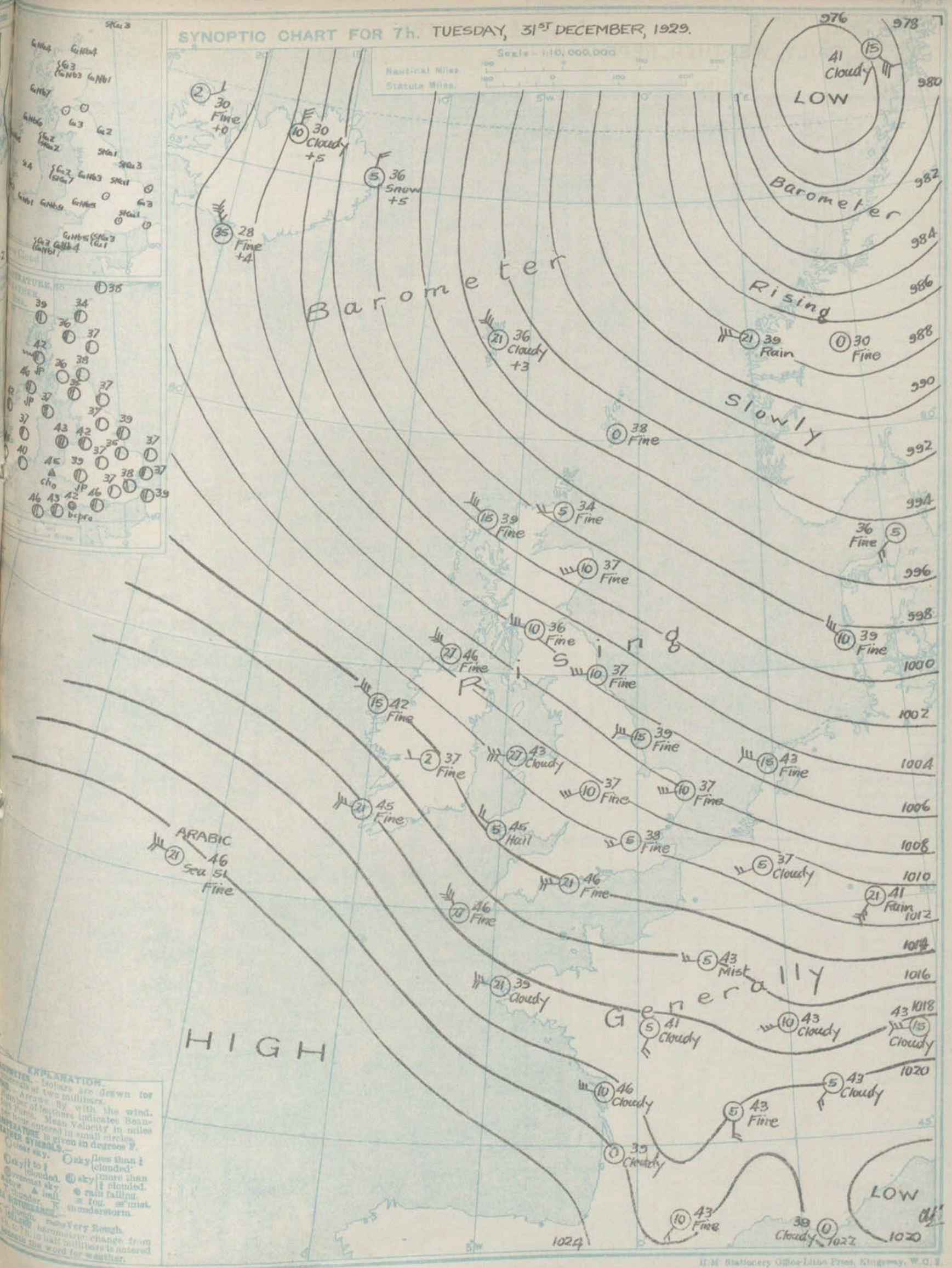
A wedge of high pressure moving eastwards across the British Isles will give bright periods generally, though showers of a wintry type are probable at first in the West and North. A low-pressure system south of Greenland is likely to cause further rainy and stormy weather tomorrow in at least our western districts. Temperature will be moderate; ground frost is probable tonight especially in eastern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 31st December, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind between northwest and west, moderate, backing later; mainly bright today but cloudy tomorrow; moderate day temperature; frost locally tonight.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind between northwest and west, moderate, backing and probably freshening later; bright intervals and wintry showers at first; cloudy and perhaps rainy tomorrow; temperature moderate today, probably rising tomorrow.	
10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N. W. Scotland	Wind northwest or west, moderate, backing and freshening later; bright intervals and wintry showers at first, then cloudy and probably rainy; temperature probably rising later.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind northwest or west, moderate, backing later; bright intervals and some wintry showers at first; probably cloudy tomorrow; local frost tonight; temperature probably rising tomorrow.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly, moderate, backing and probably freshening later; bright intervals and wintry showers at first, then cloudy and probably rainy; becoming somewhat milder.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. P. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1

* Trace = rain has fallen, but amount too small to measure.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Tuesday, 31st December 1929. No. 365

Stations	Height above M.S.L. in feet	Observations at 18h. G.M.T. 31st: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility† 0-6	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Observations at 7h. G.M.T. 31st: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility† 0-6	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	‡
Lerwick	54	991·9	+3	W'N	2	bc	38	85	8	1500	StCu	3	-	3	995·0	+3	-	0	bc	38	85	8	1500	StCu	3	-	3	3
Stornoway	80	999·1	+3	NW	3	b-	•	•	8	•	•	•	•	2	1001·9	+4	NW	4	bc	39	85	7	4000	CuNb	4	-	4	0
Wick	31	995·6	+1	W	2	bc/r	36	92	8	1500	CuNb	5	AStr	7	999·7	+2	W	2	bc	34	97	8	1500	CuNb	4	CiSt	6	6
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1006·1	+3	NNW	6	bcjp	42	75	7	2500	CuNb	7	-	7	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·9	•	W	1	bc+	36	85	8	2500	Cu	6	-	6	0
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·8	+3	WSW	3	b	37	85	8	2500	CuNb	1	ACu	1	•
Malin Head	81	1005·4	+3	NW'W	4	bjp	42	85	8	2500	CuNb	1	-	1	1009·0	+4	NW	6	bcjp	46	75	8	2500	CuNb	6	-	6	4
Renfrew	56	•	•	•	•	•	•	•	•	•	•	•	•	•	1006·1	+3	WNW	3	b/r	36	92	8	-	-	0	-	0	•
Edinburgh (Inchkeith)	199	999·9	+3	WSW	4	b	39	85	7	1500	St	1	-	1	1004·8	+3	WSW	4	b	38	85	8	-	-	0	ACu	1	2
Leuchars	39	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·7	+4	SW	2	b+	33	85	8	4000	Cu	1	ACu	1	•
Eskdalemuir	794	•	•	•	•	•	•7	•	•	•	•	•	•	•	1006·9	+3	WNW	3	bc	35	85	8	2500	Cu	3	-	3	•
Tynemouth	67	1001·6	+2	W	3	b	38	92	8	-	-	0	-	0	1004·7	+2	W	3	b	37	85	6	2500	Cu	2	-	2	•
Blacksod Point	18	1010·1	+3	W	4	bc	42	75	7	•	CuNb	4	-	4	1014·6	+4	NW	4	bc	42	85	7	•	CuNb	5	-	5	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1008·8	+3	WSW	2	bc+	37	85	7	4000	Cu	4	-	4	1
Birr Castle	179	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·0	+5	W	1	bc-	37	92	8	2500	St	4	-	4	•
Holyhead	20	1007·8	+4	W'N	6	b	44	85	8	2500	St	1	-	1	1011·0	+3	W	6	c+	43	85	8	1500	StCu	9	-	9	5
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1010·1	+3	WNW	6	bc	42	85	8	1500	CuNb	3	-	3	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1010·0	+5	W	4	b	41	75	8	1500	Cu	1	-	1	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1008·9	+3	SW	3	b	37	85	7	4000	StCu	1	CiSt	2	1
Spurn Head	99	1002·3	+3	NW	5	bc	40	85	6	-	-	0	AStr	4	1006·6	+2	WNW	4	bc	39	85	6	5700	StCu	3	-	3	•
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	1011·5	+3	WSW	3	b	37	85	6	-	-	0	Ci	2	•
Cranwell	250	1005·3	+5	W'S	4	b-	36	92	6	-	-	0	Ci	1	1009·2	+4	W'S	5	b	35	92	6	2500	StCu	1	-	1	•
Gorleston	14	1004·0	+7	W	2	b	38	92	5	-	-	0	-	0	1008·7	+3	W'S	3	b	37	85	7	-	-	0	-	0	•
Valentia (Cahirciveen)‡	30	1014·0	+3	WNW	4	bc/PR	45	92	9	•	St	3	-	3	1019·4	+4	WNW	5	b	45	75	8	2500	Cu	2	-	2	4
Roches Point	32	•	•	•	•	•	•	•	•	•	•	•	•	•	1017·7	+4	NW	3	b	40	92	8	2500	CuNb	1	-	1	5
Pembroke (St. Ann's H.)	150	1011·2	+2	NW	2	bc+	46	92	8	4000	CuNb	5	-	5	1013·1	+2	NW	2	ch,cc	45	97	7	2500	CuNb	9	-	9	6
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	1012·3	+3	SW'W	2	bcjp	39	86	7	4000	CuNb	5	Ci	5	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1011·8	+2	WSW	2	b	34	85	8	4000	StCu	1	ACu	1	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1013·9	+3	WSW	2	c	37	85	7	-	-	0	Ci	8	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1013·0	+2	W'S	3	b	37	85	7	-	-	0	Ci	1	•
London (Kew Obsy.)	18	•	•	•	•	•	39	•	•	•	•	•	•	•	1012·6	+5	WSW	2	b+	38	85	7	4000	StCu	1	-	1	•
Croydon	244	1008·5	+4	W	4	b	38	92	6	-	-	0	-	0	1012·3	+3	W	4	b	38	85	6	-	-	0	-	0	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1012·0	+3	W	3	b	38	92	8	-	-	0	-	0	2
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1010·6	+4	WNW	3	bc	37	75	7	2500	Cu	3	-	3	1
Felixstowe	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1010·6	+4	W	4	b	37	85	8	-	-	0	ACu	2	•
Lympne	350	1007·0	+6	W	3	b-	37	92	6	1500	St	2	-	2	1012·2	+3	W	3	b+	34	92	6	4000	StCu	1	-	1	•
Scilly (St. Mary's)	163	1015·4	+7	NW	4	bc	46	75	8	4000	Cu	3	-	3	1017·1	+2	NW'N	6	bc	46	85	8	4000	Cu	4	-	4	5
Falmouth (Pendennis)	200	1014·9	+5	WNW	4	bc	45	75	7	4000	Cu	3	-	3	1016·9	+1	W	3	bc	43	85	8	4000	CuNb	4	-	4	1
Plymouth (Mt. Batten)	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·8	+3	W	1	bc/pr	42	85	8	2500	CuNb	5	-	5	3
Portland Bill	42	1014·6	+6	WNW	5	bc-	46	85	8	2500	St	3	-	3	1013·3	+4	W	5	bc	46	75	8	2500	StCu	4	-	4	0
Southampton (Calshot)	10	1010·3	+6	WNW	3	b	40	85	8	2500	StCu	2	-	2	1014·5	+3	W'S	4	c+	39	85	8	4000	StCu	6	AStr	9	7
Dungeness	30	1008·4	+7	NW	3	bc-	40	91	7	2500	StCu	4	-	4	1012·9	+5	WNW	3	bc-	39	92	8	-	-	0	AStr	3	4
Guernsey (St. Peter Port)	172	1014·0	+8	NNW	3	bc	47	93	6	2500	StCu	4	-	4	1017·0	(+2)	NW	2	bc	46	75	8	2500	StCu	4	-	4	2

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30th December 1929

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-29th to 9h.-30th °F.	Temperature. Max. 9h.-17h. 30th °F.	Rainfall.† Night 17h.-9h. 29th-30th mm.	Rainfall.† Day 9h.-17h. 30th mm.	Sunshine. Sunrise to Sunset 30th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	35	41	0.3	-	1.9
Douglas (I. o. M.)	cbc	cbc	40	44	1	-	1.4
Llandudno	orrc	c	41	45	18	2	0.3
Colwyn Bay	rorc	cbcc	41	47	10	1	0.5
Rhyl	oddg	obcp	40	45	8	2	0.2
Wallasey	Rfo	cirbc	41	44	10	2	0.0
Southport	roc	coc	39	41	13	1	0.0
Blackpool	or	oc	38	42	14	1	0.1
Morecambe	rror	rc	36	41	12	1	0.0
Ilkley	rorc	c	35	38	19	4	0.0
Cleethorpes	ocb	ogr	39	48	1	0.3	1.2
Mablethorpe	rc	cdc	39	47	2	Trace	0.5
Skegness	bopr	oc	39	47	1	Trace	0.0
Aberystwyth	bcrq	c	45	47	9	-	0.0
Bath	crc	cpo	43	49	2	1	0.1
Cheltenham	bcpb	po	41	48	1	2	0.0
Leamington Spa	copr	roc	40	48	1	3	0.0
Lowestoft	ccpc	cidc	40	47	-	0.3	0.0
Harwich & Dovercourt	ocr	ocbc	41	50	1	-	0.0
Maldon	orc	cir	41	48	0.3	1	0.2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	oc	cod	42	51	7	1	0.2
Bude	bcih	bcbpo	43	50	4	4	0.1
St. Ives	p	p	44	48	6	3	0.5
Penzance	cir	cirh	44	50	3	5	0.8
Paignton	ogoPR	qbc	43	50	1	3	0.7
Torquay	cPRq	cprbc	44	51	5	2	0.7
Jersey	rhqc	rqc	47	51	02	7	1.1
Weymouth	rIPHR	cbcpb	44	52	13	1	0.3
Bournemouth	rodoc	co	43	49	12	1	0.9
Ventnor	ormo	rovc	45	48	2	5	0.0
Portsmouth (S'thsea)	orc	cb	45	49	9	3	0.3
Bognor Regis	rrc	crc	45	49	2	8	0.0
Littlehampton	cr	crbcc	45	49	2	6	0.1
Worthing	crr	circ	47	50	4	6	0.0
Brighton	rocr	oro	46	49	4	8	0.1
Eastbourne	rrHRr	corco	46	49	2	20	0.1
Hastings‡	RRh	orco	45	49	2	16	0.0
Folkestone	orrm	oir	43	49	1	16	0.0
Dover	orr	rop	44	49	2	17	0.0
Deal	orr	rro	43	49	0.3	11	0.0
Tunbridge Wells	or	oc	42	47	3	7	0.0
Ramsgate	or	rod	43	48	-	5	0.0
Margate	cr	c	42	48	0.2	5	0.6
Southend	or	cor	42	47	-	6	

TERMS OF SUBSCRIPTION.—6/6 per quarter or 25/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

* Information not usually received. ‡ The observations at 1h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. & 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, DECEMBER 1923.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st	Tiree	13h Cloud height 5700'
"	Scilly	18h Wind force 3
"	Westminster	Max. 55° Min 49° Grass Min 42°
"	"	Rain (24h) 7mm. Hom. 94% 94%
"	Greenwich	Pole Star Record 30th 17.00 to
"	"	1st 0645 (13h 45m) Polaris
"	"	4h. 0m. 29% Ursae 3h. 19m. 24%
"	Malin Head	7h. Bar. 993.9
"	Mablethorpe	Morning weather cpm.
"	"	Afternoon " bccpm.
"	Wick.	Day Rain 0.6mm.
2nd	Birmingham	18h. weather b-
"	Greenwich	Weather cdm; cbm; bembwc
"	Westminster.	Max. 51° Min. 42° Grass Min 33°
"	"	Rain nil. Hom. 79% 79%
"	Greenwich	Pole Star Record 1st 17h. to 2nd
"	"	06h 45m. (13h 45m) Polaris
"	"	9h. 46m. 71%. Ursae 4h. 30m 33%
"	Falmouth.	1h. Tendency -5.
"	Ross.	7h. Wind S.
"	Rhyl	Sun to Sunset 0.1h.
"	Edinburgh	Sun 3.8h.
"	Blacksod Pt.	Max 51°. Min 50°
"	Birr	Sun. 1.0
"	Chester.	13-18h weather cbm.
"	Roches Pt.	Night rain began 22.30.
"	Leafield	7-13h weather ecbc Day rain Tr.
"	Winchester	1-7h " bccr.
"	Southampton	1-7h " bbcc.
3rd	Dungeness	13h. Tendency -8
"	Cranwell	18h. Bar. 980.0
"	Pembroke	Sea 18h. 4.
"	Falmouth	18h. Vis. 8
"	Southampton	" weather b. Cloud St 1
"	Cranwell	1h. Hom. 85%
"	Birr	7h Temp. 41°
"	Chester	7h weather b-
"	Croydon	Cloud StCu 1 Ci 4
"	Wandsworth	Max. 60°
"	Bude	" 53°
"	Edinburgh	Night rain 2mm.
"	Donaghadee	" " began 18.00
4th	Leafield	1-7h weather bw.
"	Renfrew	18h. Wind ENE
"	Blacksod Pt.	" weather oRR.
"	Westminster	Max. 54° Min 44° Grass Min 40°
"	"	Rain (24h) 5mm. Hom. 79% 88%
"	Kew (Pollution)	Max. 0.4 17-18h 3rd
"	"	Min. <0.1 4h. 4th.
"	Blacksod	1h. Bar. 984.4
"	Birr	7h. Temp. 39°
"	Paignton	Min. " 35°
"	Ramsgate	" " 47°
"	Lerwick.	Sun 0.5h
"	Renfrew	1-7h weather crr.
"	Edinburgh	Day rain Trace.
"	Gorleston	Sun 1.0h.
"	S. Farnboro'	Min Temp. 44° 7-13h weather bcrcm.
"	Croydon	" " 46°
"	Southampton	7-13h weather bccr. Rm.
"	Guernsey	Min. Temp 51°
5th	Birr	7-13h weather b, bc, c.
"	Valentia	13h. Ground 2.
"	Southampton	" Bar. 1002.6.
"	Nairn	18h. Hom 75%
"	Portland Bill	" Vis. 8
"	Greenwich	Night weather bcrcRR
"	Malin	7h Bar. 959.9.
"	Ross	" Hom. 85%
"	Mallaseg	Day Rain Trace.
"	Skegness	" " Trace.
"	Liverpool	Sun 1.6h.
"	Leafield	Grass min. 40°

Report for	STATION.	CORRECTION.
5th	S. Farnboro'	18-1h weather cpc
"	"	Grass min. 43° Day rain began <0800
"	Southampton	Max. 55°
"	Guernsey	18-1h weather coqo 1-7h poqr
6th	Malin	13h. Bar. 951.9.
"	Lerwick	18h " Tendency -8
"	Pembroke	1h Temp. 50°
"	Blacksod	7h. Temp. 45°
"	Donaghadee	" Weather b Cloud Cu 2-2
"	Cheltenham	Max. 52°
"	Leuchars	Sun. 1-7h.
"	Birr Castle	7-13h weather bcirq
"	"	Night rain began <21.00
"	Roches Point	7-13h weather bc, cir.
"	Plymouth	18-1h " cprbq. Sun 2-7h
"	Falmouth	Night rain 0.1 mm.
7th	Blacksod	13h. Temp. 45°
"	Harrogate	" Wind SW'W.
"	Renfrew	18h Temp. 42°
"	Blacksod	" Tendency -14.
"	Pembroke	" weather c/rl
"	Falmouth	" Cloud ht. 4000'
"	"	" Total cloud 7
"	Westminster	Max. 51° Min. 45° Grass min 42°
"	"	Rain (24h) 10mm. Hom. 71% 68%
"	Tynemouth	1h. Tendency -7
"	Renfrew	7h. wind force 2
"	Wick.	Min Temp. 43°
"	Edinburgh	" " 40°
"	Gorleston	Sun 4.5h.
"	Leafield	Min. Temp. 43° Rain (day) 1mm
"	Winchester	18-1h weather ortlbccrq.
"	Lympne	Min. Temp. 40°
8th	Lerwick	13h. Low Cloud form CuNb.
"	Chester	13h. Bar. 982.5
"	Harrogate	13h Tendency +12 Wind W. 6.
"	Leafield	13h Bar. 987.8.
"	Felixstowe	13h. Temp. 49°
"	Lympne	13h. Cloud St 7 Ci St 9
"	Malin Hd.	18h. weather bc/PH
"	Renfrew	" " b/r
"	Harrogate	" Cloud Nb 6-6.
"	Westminster	Max 52°. Min. 43° Grass min. 39°
"	"	Rain (24h) 7mm. Hom. 56% 86%
"	Camden Sq.	c:cb: *:48:43:*:-:8:*:*:92
"	Greenwich	Pole Star. 7th 17.00 to 8th 7.00
"	"	(14h 0m) Polaris 5h. 7m 37%
"	"	Ursae 4h. 10m 30%
"	Blacksod Pt.	1h. weather oRR.
"	Falmouth.	" visibility 5
"	Edinburgh	7h. Humidity 82%
"	Blacksod Pt.	" Wind force 5. Temp. 41°
"	Lerwick	Max. 47°
"	Edinburgh	Day rain 1 "
"	Tynemouth	Min. 38°
"	Chester	Day rain 12mm.
"	Valentia	" " began 11.00
"	Pembroke	Sun 1.5h.
"	Clacton	Max. 50°
"	Lympne	Min. 40° Sun. 0.4h.
"	Falmouth	" 45°
"	Plymouth	13-18h weather bcqpb
9th	Malin	13h Low cloud StCu.
"	Falmouth	" wind force 10
"	Ross	18h Bar. 988.3
"	Scilly.	" Bar. 1000.9.
"	Regents Park	Sun 0.9h.
"	Kew (Pollution)	Max. 0.1 8-17h 8th Min <0.1 Rest of period
"	Greenwich	Pole Star 8th 17h om to 9th 7h om (14h
"	"	Polaris 8h. 48m 63% Ursae 7h. 19m. 52%
"	Spurn	1h. Tendency +4.
"	Edinburgh	7h " +2
"	Liverpool	" " -3

Report for	STATION.	CORRECTION.
9th	Birmingham	7h. Humidity 85%
"	Renfrew	7-13h weather c,prhc.
"	Holyhead	13-18h " cbcu 1-7h bc
"	Liverpool	Max. 47°
"	Winchester	13-18 weather cPRal 18-7h cprqlbcl
"	Plymouth	7-13h " orc PRH bcq
10th	Tiree	13h State of ground 0
"	Blacksod Pt	" Hum. 92%
"	Pembroke	" Temp. 48°
"	Leafield	18h weather b/PR-
"	Holyhead	1h Hom. 92%
"	Stornoway	7h. Sea 4
"	Wick	" weather bcpr
"	Nairn	" Hum. 85%
"	Blacksod Pt	" Temp. 43°
"	Spurn Hd	" Wind WNW.
"	Weymouth	Max. 54°
"	Leuchars	13-18h weather bbcbx Max 42°
"	Holyhead	18-1h " ph, PR r, bc.
"	Gorleston	Sun. 0.5h.
"	Kew	Night rain 0.3mm.
"	Falmouth	Min. 40°
11th	Gorleston	13h Cloud height 4000'
"	City	Sun 1.9h.
"	Regents Park	" 3.3h.
"	Kew (Pollution)	Max 0.3 16h. 10th Min <0.1 1-7h 11th
"	Rhyl	Forenoon weather bbcp.
"	Bude	Day rain 16mm.
"	Renfrew	13-18h weather bcqerb.
"	Harrogate	Night rain 7mm.
"	Spurn	Sun 2.4h.
"	Falmouth	" 0.2h.
12th	Blacksod Pt.	13h Temp. 51°
"	Nairn	18h Bar. 978.2
"	Blacksod Pt	" Wind force 7 Temp. 47°
"	Roches Point	" weather b Cloud CuNb 2
"	Ross	" Bar. 1002.8
"	Tynemouth	1h. weather bc/pr.
"	Blacksod Pt	1h Temp. 44° Min. Temp. 41°
"	Malin Hd.	7h Wind W
"	Ross	7h. " W'N weather cirh
"	"	" Cloud CuNb 9.
"	Falmouth	" Temp. 49°
"	Morecambe	Day rain 0.5mm.
"	Birr	18-1h weather cirq 1-7h cirl
"	"	Day rain began <0800
"	Chester	18-1h weather bcPRq.
"	Harrogate	Night rain 5mm.
"	Birmingham	Grass min. 40°
"	Roches Pt.	13-18h weather b.
13th	Cranwell	13h Tendency +8
"	Croydon	" Hum. 65%
"	Malin Hd.	1h Cloud Nb 6 Ast 10
"	Lerwick	7h Hum. 92%
"	Malin	" " 92%
"	Roches Pt.	" weather od, d.
"	Leafield	" Wind SW'W.
"	Bath	Sun 4.0h.
"	Bournemouth	Forenoon weather odcb
"	Bognor Regis	Max. 50°
"	Nairn	Day rain began 12.30
"	Valentia	1-7h weather cod.
"	Pembroke	Day rain 0.4.
"	S. Farnboro'	Grass Min 38°
"	Shoeburyness	Max. 49°
"	Lympne	Grass min 38°
"	Plymouth	1-7h weather bccom, d.
14th	Harrogate	13h Hum. 85%
"	Falmouth	18h Wind W.
"	Leamington	Delete weather columns.
"	St. Ives	Delete brackets " (2) & (3)
"	Jersey	bec: bacdc: 49:53: -: Trace: 1.8
"	Nairn	7-13h weather cprq. 13-18h crrq
"	Renfrew	18-1h " crrq.
"	Scotland	18-1h " cirr
"	Plymouth	" " ondde Grass min 51°

: The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, DECEMBER 1929.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
15th	Eskdalemoir	13h. Hum. 85%
"	Westminster	Max. 53° Min 47° Grass min 46°
"	"	Rain (24h) 5mm. Hum. 81% 26%
"	Greenwich (Pole Star)	14th 17.00 to 15th 0700 (14h)
"	"	Polaris 0h 20m 2% Ursae 0h. 11m 1%
"	Clacton	7h. Wind force 1
"	Birr Castle	1-7h weather bcbx.
"	Leafield	" " odro
16th	Edinburgh	13h Hum. 75%
"	Eskdalemuir	" " 75%. Vis. 8
"	Blacksod Pt.	" Wind NNW. Cloud Cu 7-7
"	Spurn Hd.	18h Cloud - - o Ast 8.
"	Pembroke	1h Temp. 43°
"	Blacksod Pt.	7h Cloud StCu 8-8.
"	Chester	7h Hum. 92%
"	Roches Pt.	7h " 97%
"	" "	Night rain began —
"	Pembroke	Max. 49°
"	S. Farnboro'	" 49°
17th	Tiree	13h wind force 4 weather b/pr.
"	Malin Hd	" Cloud StCu 3-3.
"	Portland Bill	" Bar. 1036.8.
"	Ventnor	Max. 52°
"	Tiree	" 48°
"	Eskdalemuir	" 39°
18th	Plymouth	13h weather bc Cloud Ci 3.
"	Donaghadee	18h Cloud height 1500'
"	Blacksod	1h weather oD-
"	Wick	7h Bar. 1024.9
"	Lympne	7h Hum. 92%
"	Holyhead	18-1h weather cbcm.
"	Scilly	Sun. 2.7h.
19th	Malin Hd	13h wind S.
"	Birr Castle	" " force 2.
"	Nairn	18h. " SW.
"	Birr Castle	7h Vis. 7.
"	Roches Pt.	" Temp. 49°
"	Leafield	" Total Cloud 1
20th	Harrogate	18h Hum. 85%
"	Greenwich	Night weather bcx.
"	Falmouth	1h Bar. 1018.3.
"	Blacksod	7h Temp. 45°
"	Harrogate	7h weather mo Vis. 4.
"	Morecambe	cbbc. cbcc. 32. 41. -. -. 44.
"	Littlehampton	Sun. 7.1h.
"	Spurn	7h weather bc.
"	Leuchars	7-13h weather bwbcm. bc
"	"	1-7h " crrc
"	Spurn Hd	Sun 3.9h.
"	Gorleston	" 6.2h.
"	Roches Pt.	13-18h weather c. cir.
"	"	18-1h " orrc.
"	Leafield	Sun 6.2h.
"	S. Farnboro'	18-1h weather b. cm.
"	Plymouth	Sun 7.2h.
"	Dungeness.	Min. 32°
21st	Edinburgh	13h Cloud StCu 5 ACu 7
"	Cranwell	" State of ground 3.
"	Kew.	" Wind SSE
"	Falmouth	" " SW's.
"	Blacksod Pt	18h Hum. 85%
"	Wick	7h Bar. 982.7
"	Blacksod Pt.	" wind W's.
"	Holyhead	" weather cd. Cloud StCu 3
"	Nabletthorpe	Weather cbcxm.: bbcxm.
"	Leuchars	13-18h weather bccp.
"	"	Day rain began 16.30.
"	Cranwell	" " Trace began 0930
"	Valentia	Night rain began <2100
"	Plymouth	13-1h weather or. rrq
"	"	1-7h " orrRqc.
"	Dungeness	Min 34°
22nd	Renfrew	13h Temp 36°
27th	Harrogate	18h Cloud <150' St 2 - 2
"	Westminster	Max. 42. Min 37° Grass min 35°
"	"	Rain (24h) 7mm. Sun 0.0
"	"	Humidities 91% 92%
"	Regents Pk.	Sun 0.0h.
"	Camden Sq	or, oro. Max 39° Min 36°
"	"	Day rain 7mm Night Nil Hum. 97%
"	S. Kensington	Pollution. Max 1.3 19h 21st
"	"	Min <0.3 2-6h 22nd
"	Greenwich	Pole Star. 21st 1700 to 22nd 0700
"	"	(14h) Polaris r Ursae Nil
"	Blacksod	1h. Temp. 38°
"	Wick.	7h Wind SSE
"	Tynemouth	7h weather mo-
"	Blacksod	" " bc Temp. 37°
"	Leuchars	18-1h " bxm.
"	"	1-7h " bxcxm.
"	Roches Pt.	1-7h " cbcbx
"	"	Night rain began <2100
"	Dungeness	Min. 35°
23rd	Lerwick	13h Hum. 75%
"	Lympne	" " 92%
"	Blacksod Pt.	18h. Cloud CuNb 6-6.
"	Southampton	" weather f bc+
"	Birr Castle	7h wind SW.
"	Lympne	" " SW.
"	Scilly	" Hum. 92%
"	Lerwick	Night rain 2mm.
"	Tiree	Day " 1mm.
"	Malin Hd	1-7h weather bbcr.
"	Edinburgh	" " bc.
"	Tynemouth	18-1h " orm.
"	Leafield	7-13h " d. FFo.
"	Winchester	18-1h " bcm. offc.
"	Shoeburyness	Night rain Trace.
"	Plymouth	18-1h weather bm. xc.
"	Southampton	Max 42°
"	Dungeness	Min. 37°
24th	Malin Hd.	13h Wind force 4.
"	Plymouth	" " " 3.
"	Birr Castle	18h Bar. 979.5.
"	Hampstead	Sun 0.0h.
"	Leamington	Day rain 1mm.
"	Harwich	Afternoon weather roc.
"	Lerwick.	Min 37°
"	Renfrew	18-1h weather bco, rr.
"	Leuchars	7-13 weather bcbcxc.
"	Roches Pt.	" " bcc ir.
"	Southampton	13-18h " od. f. m.
"	Dungeness	Min. 40°
25th	Blacksod Pt	13h wind force 3.
"	Valentia	" Low cloud St 7
"	Donaghadee	18h Bar. 989.7
"	Holyhead	" Bar. 991.1
"	Valentia	" wind force 7
"	City	Sun. 0.4h.
"	Westminster	Max. 53° Min 39° Grass Min 34°
"	"	Rain (24h) 4mm. Sun 5.2h Hum 61% 75%
"	Regents Park	Sun 4.9h.
"	Hampstead	Sun. 5.4h
"	S. Kensington	Pollution Max 1.0 20h 24th Min 0.3 1-7h 25th
"	Wick	7h. weather orr
"	Harrogate	" Bar. 977.7
"	Valentia	" Wind force 8. Sea 7
"	Falmouth	" Total cloud 5
"	Tiree	18-1h weather crq 1-7h c
"	"	Max 45° Min 38° Grass min 37°
"	"	Night rain 2mm Sun 3.8h.
"	Edinburgh	" " began 01.30.
"	Birr Castle	18-1h weather orrq bocirq 1-7h cirq.
"	Holyhead	" " r. o. rr Rqc.
"	Portland	" " o RR3.
26th	Tiree	18h wind NE'N
"	Malin Hd	" Sea 7
26th	Falmouth	18h Low cloud Amount 4
"	Portland	" weather c+ Cloud StCu 9-9.
"	City	Sun 0.0.
"	Westminster	Max 52° Min 41° Grass 37° Sun 1.9
"	"	24h Rain 1mm. Hum. 54% 76%
"	Hampstead	Sun 2.3h.
"	S. Kensington	Pollution Max. 0.6 10h 25th Min. <0.3 2-6h 26th
"	Greenwich	Pole Star. 17.00 (25th) to 0700 (26th) 14h
"	"	Polaris 13h. 37m 97% Ursae 13h. 12m 94%
"	Blacksod	7h weather bc/pr.
"	Plymouth	7h Hum. 75%
"	Tiree	Max 45°
"	Chester	" 51°
"	Plymouth	Max 51°. Sun. 0.9h.
"	Portland	" 52°
27th	Donaghadee	13h Hum 75%
"	Plymouth	" Bar 1011.3.
"	Blacksod	18h Temp 49° 7h. Bar. 997.9.
"	Falmouth	" Cloud CuNb 4 Ast 8.
"	City	Sun 1.6h.
"	Hampstead	" 5.5h.
"	S. Kensington	Pollution Max. 1.0 17h 26th Min 0.3 1-6h 27th
"	Greenwich (Pollution)	26th 1700 to 27th 0700 (14h)
"	"	Polaris 5h 49m 42% Ursae 5h. 22m 38%
"	Birmingham	18h Cloud Ci 2.
"	Donaghadee	7h Wind force 2.
"	Holyhead	" Cloud StCu 8-8.
"	Gorleston	" Wind SSW force 6.
"	Tiree	Max 46°
"	Holyhead	7-13 weather bcbm. b. Night rain begun <2100
"	Roches Pt.	13-18h " corr.
"	Dungeness	Max 49° Min. 42°
28th	Skegness.	" 47°
"	Leamington	Weather bc. bc.
"	Harwich	Forenoon weather boc Day min-
"	Tiree	1-7h weather ir.
"	Ross-on-Wye	Day rain began 0900
"	Leafield	" " 0900
"	"	Night rain 2mm.
"	Southampton	1-7h weather bwc.
29th	Blacksod	18h Cloud Nb. 10-10.
"	Birr Castle	" Temp. 45°
"	Birmingham	" weather or +
"	Gorleston	18h wind SE Cloud height 800'
"	Leafield	" Temp. 48° Vis. 4 " <150' 3h 10-10
"	Croydon	" Cloud height 450'
"	Felixstowe	" wind SSE
"	City	Sun 0.0
"	Westminster	Max 54° Grass Min. 44° Sun 0.0 Hum 81% 72%
"	Hampstead	Min 43° 24h rain 5mm
"	S. Kensington	Sun 0.8.
"	Greenwich	Pollution Max. 1.2 11h 28th Min <0.3. 1-7h 29th
"	"	Pole Star. 28th 1700 to 29th 0700 (14h)
"	Lerwick	Polaris and Ursae Nil
"	Nairn	Th Bar. 963.2.
"	Edinburgh	" low cloud type Nb.
"	Leafield	" wind WSW force 8.
"	Plymouth	" Hum. 95%
"	Ramsgate	" Cloud Nb 6 Ci Cu 9.
"	Margate	bcb, cor. 35. 48. 1. 1. 1.5
"	Nairn	bc. bccr. 35. 47. -. 1. 1.5
"	Leuchars	7-13h weather bc.
"	Leafield	Min 36°
"	S. Farnboro'	13-18h weather ordd Max 48° Day rain 6mm
30th	Edinburgh	" " orrm. 1-7h orrRr.
"	Harrogate	13h Bar. 975.4.
"	Gorleston	" " Tendency +15
"	S. Farnboro'	" wind WSW 18h. wind WSW
"	Portland Bill	" Cloud CuNb 5 Ci 7
"	Regents Park	" " 4000' Cu 6-6.
"	Greenwich	Sun. 1.8h.
"	"	Pole Star. 29th 17.00 to 30th 0700 (14h)
"	Leafield	Polaris 12h. 41m 91% Ursae 12h 1m 86%
"	Southport	7h Cloud height 1500'
"	Tiree	Night rain 11mm.
"	Leafield	Max 48°
"	Winchester	1-7h weather bbcc.
"	Lympne	18-1h " ecpro
31st	Valentia	Sun 4.9h.
"	Ross	13h. Wind N.
"	S. Farnboro'	" Hum. 85%
"	Hampstead	13h Wind force 2.
"	Greenwich	Sun 0.2h.
"	"	Pole Star. 30th 1700 to 31st 0700 (14h)
"	Tynemouth	Polaris 10h 28m 75% Ursae 0h. 42m 5%
"	Lympne	1h. Temp. 37°
"	Portland Bill	" Bar. 1007.8.
"	Leafield	" " 1010.6.
"	Clacton	7h. Vis. 8.
"	Guernsey	" Wind WNW.
"	Bognor Regis	" Tendency +2.
"	Lerwick	Sun. 0.0.
"	Tiree	Max 43°
"	Malin Hd	7-13h weather cirq. Max 44°
"	Tynemouth	Night rain 4mm.
"	Leafield	Min. 36°
		7-13h weather r, c

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. ADDITIONS, DECEMBER 1929.

Report for	STATION.		Barom. at M.S.L. m.b.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. * 0-9	Weather 7h.-13h.	Weather 13h.-18h.	Weather 18h.-1h.	Weather 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun. Hours.
3rd	Tiree	7h	966.0	-10	S'W	8	orr	50	97	6	2500	Nb	10	–	10	7			id R	Rr	49	47	43		10	24.00	0.2
"	"	7h	965.7	+7	WSW	6	oR	41	97	6	2500	Nb	10	–	10	6			pH,bc	tZRq	52	39	35		5	<21.00	0.0
4th	Roches Pt.	7h	932.4	-1	SW	4	bc	51	85	8	1500	CuNb	3	–	3	6			bcptc	HPinbc	54	42			6	<2100	
"	Tiree	13h	946.3	0	S	7	c	49	85	6	2500	StCu	9	ASt	10	1	rc							1		<0800	
"	"	18h	943.7	-3	S	8	c	50	85	6	2500	StCu	9	ASt	10	7		c									
5th	"	7h	966.1	+1	SW'S	5	bc	45	92	7	2500	StCu	4	–	4	5			cR	c	50	44	41		5	2200	0.0
"	"	13h	987.1	+1	S'W	6	c	47	85	8	2500	StCu	8	CiCu	9	0	bc,c							–		–	
"	"	18h	986.2	-1	S'W	5	bc-	45	85	8	1500	StCu	3	–	3	6		c,bc									
6th	"	7h	961.2	-9	S	7	c/r	49	85	7	2500	CuNb	5	ACu	8	7			bc,c,c	c,R	48	45	42		7	2400	1.4
"	"	13h	954.2	-8	SSE	8	or+	47	85	6	2500	Nb	10	–	10	1	c										
"	"	18h	948.2	-7	S'E	7	or	48	97	6	1500	Nb	10	–	10	8		cir						2		12.30	
"	Blacksod	7h	971.5	+11	W	7	bc	48	85	7	1500	CuNb	3	–	3	8			R ir	iR	49	46	42		5	<2100	0.0
7th	Tiree	13h	944.4	-2	S	8	c	51	75	7	*	CuNb	10	–	10	*	rrqc									*	
"	"	18h	958.8	+8	WNW	9	oR	49	85	6	"	–	0	ASt	10	9		rrq						15		*	
"	"	13h	975.1	0	SW'W	6	bc	45	75	7	1500	CuNb	3	–	3	1	bcpttbc										
"	"	18h	968.8	-7	S'E	5	or+	42	92	6	2500	Nb	10	–	10	6		c						1		0900	
"	Plymouth	7h	965.3	+4	N	6	cr.r.	45	85	6	1500	Nb	10	–	10	6			rr	rr	48	40	39		1	<21.00	1.7
"	Portland	7h	984.0	+14	W	8	c/PR	49	65	7	2500	CuNb	9	–	9	7			oqRHt	orrqh	52	45	45		4	<21.00	0.7
"	"	1h	971.6	-12	SW	10	c/PR	51	97	7	1500	Nb	8	–	8	*			ciPic	ciPc	52	48			15	<21.00	
"	Dungeness	7h	978.1	+15	WSW	10	c/PR	51	97	7	1500	Nb	8	–	8	8											
"	"	1h	977.9	-7	SSW	8	bc/h	53	85	7	2500	StCu	4	–	4	*			cqctrh	bcIR	50	43			6	<2100	
"	Guernsey	7h	977.6	+4	SW	10	cR	49	92	7	2500	CuNb	10	–	10	8											
"	"	1h	983.0	-	WSW	5	bc-	47	85	7	2500	StCu	4	–	4	*			ophqc	ircor	52	47	47		6	<2100	2.3
8th	Tiree	7h	988.6	+8	W	6	or	49	75	6	2500	Nb	10	–	10	8											
"	"	13h	975.7	+9	NW	7	c/r	46	75	6	2500	Nb	8	ASt	10	2	ir										
"	"	18h	982.0	+8	W'N	7	bc/p.	43	75	7	1500	CuNb	4	–	4	7		cpr						4		<0800	
"	Guernsey	7h	971.8	-5	SW'S	6	c/p	42	92	6	2500	Nb	9	–	9	6			prbc	rRpr.	46	35	30		4	<2100	0.0
"	"	13h	1004.4	+10	W	5	c/ph.	50	65	6	2500	StCu	8	–	8	*											
"	"	1h	1004.2	-8	SW	6	or.	51	85	6	2500	Nb	10	–	10	*			copr								
"	Portland	7h	999.0	-4	SW	5	oRR	52	97	5	1500	Nb	10	–	10	8				cprqRR	51	49	47		2	1.30	0.6
"	"	1h	986.2	-10	SSW	9	oRR	51	97	6	800	Nb	10	–	10	*			bccRR3.	oRRq							
9th	Tiree	7h	991.8	-5	SSW	9	oRR	51	97	6	800	Nb	10	–	10	8					50	47			15	<2100	
"	"	13h	976.9	+1	WSW	5	c/r	41	75	8	2500	CuNb	6	CiCu	8	1	hrcprc										
"	"	18h	976.3	+3	W	6	bc/ph.	41	92	8	2500	CuNb	7	–	7	6		c						1		<800	
"	Pembroke	7h	983.9	+4	NW'W	7	cr-	43	75	8	1500	CuNb	9	–	9	7			phcr	crcR	44	38	36		4	<2100	0.6
"	"	1h	1000.9	+3	W	8	bc-	48	97	8	1500	CuNb	3	ASt	6	*			cplq								
"	Portland	7h	992.7	-8	SW	6	oRR	49	97	7	800	St	10	–	10	7				bcorrq	52	45			16	22.00	
"	"	13h	993.7	-2	SSW	9	c/pr.	50	92	6	1500	Nb	8	ASt	9	*	oRip3.										
"	"	18h	993.4	+15	WSW	9	c/PR	50	85	6	1500	Nb	8	ASt	9	8		op.P3.									
"	"	1h	1008.3	+7	WSW	8	b-	50	65	7	–	–	0	–	0	*			b					6		<800	
"	Guernsey	7h	1000.9	-8	SW'S	8	oRR	51	97	6	1500	St	10	–	10	8				bbcoRR	54	45			3	<2100	
"	"	13h	997.8	+2	WSW	6	c	51	65	6	2500	StCu	8	–	8	*	cPRqc										
"	"	18h	1004.0	+8	W	6	bc/ttr	49	85	6	1500	StCu	6	–	6	8		cTLRHY									
10th	Portland	1h	1013.0	+6	W	3	bc/pr.	48	75	6	2500	StCu	4	–	4	*			bcprc					13		<800	
"	"	7h	1006.6	-7	SW	5	or.r.	50	85	6	1500	Nb	10	–	10	8				coRpr	54	47	45		5	<2100	0.8
"	"	13h	990.6	+4	W	8	c	51	85	7	1500	StCu	9	ASt	10	*	oiRRc										
"	"	18h	994.8	+7	W'S	8	c-	47	85	7	2500	Cu	8	–	8	8		cp.c									
"	"	1h	997.0	0	W'S	8	bc	46	75	8	2500	StCu	6	ASt	7	*			cbc					12		<800	
"	Guernsey	7h	1005.4	+6	W	5	bc	44	85	8	2500	StCu	7	–	7	5				bc	53	40			–	–	
"	"	13h	997.2	-8	WSW	5	oRR	55	92	5	1500	Nb	10	–	10	*	orror										
"	"	18h	1001.2	+6	W	5	bc-	49	65	6	4000	StCu	4	–	4	8		oiRbc									
11th	Portland	1h	1005.0	+1	W	4	bc/r	45	75	6	2500	StCu	6	–	6	*			cphopr					10		<800	
"	"	7h	1008.6	+5	WNW	5	c	45	75	7	2500	StCu	10	–	10	8				ophro	55	45	42		2	2200	0.0
"	"	13h	1008.0	+4	W	6	bc	48	65	8	2500	StCu	6	ASt	7	5	bc										
"	"	18h	1005.7	-2	WSW	6	cr.r.	49	85	8	1500	StCu	10	–	10	5		bccp.									
"	"	1h	996.2	-10	SW	8	or.r.	53	97	7	800	Nb	10	–	10	*			orr					1		14.30	
"	Guernsey	7h	996.3	+3	WSW	8	c-	54	75	7	2500	StCu	7	ASt	8	6				orrpc	51	41			4	<2100	
"	"	13h	1013.0	+2	WSW	3	o/pr.	48	75	6	1500	Nb	10	–	10	*	copr										
"	"	18h	1012.0	-4	SW	4	oPR	49	92	5	1500	Nb	10	–	10	5		oroRR						9		12.30	
12th	Portland	1h	1005.8	-6	SW	5	c/pr.	52	92	6	2500	StCu	10	–	10	*			oropr								
"	"	7h	1004.9	+5	WSW	5	c-	54	85	5	2500	StCu	8	–	8	7				oprTc	49	49	51		6	<2100	1.8
"	"	13h	1003.8	+5	W'S	7	c+	54	65	7	1500	StCu	8	ASt	9	*	cp.c										
"	"	18h	1008.4	+3	WSW	7	c+	53	85	7	2500	StCu	10	–	10	8		o						0.5		<800	
"	"	1h	1009.2	+1	WSW	7	bc	53	85	7	1500	StCu	6	ASt	7	*			bc								
"	Guernsey	7h	1013.2	+2	WSW	8	bc	51	75	7	1500	StCu	4	ASt	5	6				bc	54	48			–	–	
"	"	13h	1009.6	+4	W	5	c	54	75	5	2500	StCu	10	–	10	*	bcco										
"	"	18h	1014.0	+4	WSW	4	bc	53	85	5	4000	StCu	6	–	6	6		coc						–		–	
13th	Portland	1h	1016.2	+1	WSW	4	bc	53	85	5	2500	StCu	4	ACu	6	*			ocbc								
"	"	7h	1020.4	-	W	5	c	51	75	7	2500	StCu	8	–	8	6				copc	55	50	47		1	4.30	0.0
"	"	13h	1019.8	+5	W'S	8	bc	51	75	8	2500	Cu	4	–	4	*	bcPbc										
"	"	18h	1023.9	+6	W	7	bc	52	75	8	4000	StCu	5	ACu	6	7		bc						6		<0800	
"	"	1h	1027.1	+3	WSW	7	b-	51	92	7	–	–	0	–	0	*			b								
"	Guernsey	7h	1026.7	0	WSW	6	bc	52	85	7	2500	CuNb	5	ASt	6	6				bbc	53	48			–	–	
"	"	13h	1025.6	+7	W	5	bc/r	51	85	6	2500	StCu	4	–	4	*	bcRc										
"	"	18h	1030.0	+6	WNW	4	bc	52	85	5	2500	StCu	6	–	6	5		bcco						2		12.30	

* For 1300 observations this figure refers to "State of ground"

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. ADDITIONS DECEMBER 1929.

Report for	STATION.		Barom. at M.S.L. m.b.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility § 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. * 0-9	Weather. 7h.-13h.	Weather. 13h.-18h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun. Hours.
13th	Guernsey	1h	1031.8	+2	WSW	3	b	51	92	6	-	-	0	ACu	2	×			ddw								4.7
"	"	7h	1032.0	0	WSW	2	c	51	85	5	2500	StCu	8	-	8	5×				bwbcc	53	53	48		-	-	
14th	"	13h	1031.0	-3	SW	3	odt	52	92	5	1500	Nb	10	-	10	5×	cpod							0.1		12.30	
"	"	18h	1030.0	0	SW	3	odt	53	92	5	2500	St	10	-	10	5×		codco									
"	"	1h	1029.0	-2	SW	3	mmo	54	92	4	1500	St	10	-	10	5×			odom						1	2200	1.0
"	"	7h	1027.6	-1	SW	3	c	54	97	5	2500	StCu	10	-	10	5×				ompro	54	53	54				
15th	Guernsey	13h	1027.6	-1	WSW	4	od°	55	97	5	1500	Nb	10	-	10	5×	coded							1		<8.00	
"	"	18h	1028.8	+3	SW	4	od°	54	97	5	1500	Nb	10	-	10	5×		odod									0.0
"	"	1h	1030.8	0	WSW	3	odd	53	97	5	1500	Nb	10	-	10	4×			edmod						2	<2100	
"	"	7h	1030.8	0	WSW	3	odd	53	97	5	1500	Nb	10	-	10	4×				odmod	55	53	52				
16th	"	13h	1032.8	+2	-	0	odd	51	97	5	1500	Nb	10	-	10	3×	odmod							4		<0800	
"	"	18h	1034.0	+2	NE	1	c	47	92	5	1500	StCu	10	-	10	3×		eddfc									
"	"	1h	1034.6	+1	NE	2	cd°	47	85	5	1500	StCu	10	-	10	3×			ocod						1	2400	0.0
"	"	7h	1035.0	0	ENE	2	bc°	47	75	5	2500	StCu	8	-	8	3×				ddpfc	54	44	40				
17th	"	13h	1037.2	0	NNE	2	bc	48	77	5	-	-	0	ACu	2	3×	cbc										
"	"	18h	1039.4	+4	ENE	3	bc	46	78	6	4000	Cu	4	-	4	3×		bc						-		-	
"	"	1h	1041.2	0	-	0	b	41	85	6	-	-	0	ACu	2	1×			bcbw							-	4.7
"	"	7h	1041.8	+1	-	0	b/m	35	92	6	-	-	0	ACu	2	1×				bwbw	48	34			-		
18th	"	13h	1042.0	+	-	0	b/m	47	65	5	-	-	0	CiCu	2	1×	bm									-	
"	"	18h	1041.0	-1	-	0	bc	36	92	6	-	-	0	CiCu	2	1×		bmbc						-			
"	"	1h	1040.4	-2	-	0	c	35	97	7	4000	StCu	8	-	8	2			bcc							-	6.5
"	"	7h	1039.4	+2	-	0	c	37	92	7	2500	StCu	8	-	8	2				c	47	34	26		-		
19th	"	1h	1036.0	-2	SSE	3	bc	42	85	7	2500	Cu	4	-	4	×			cbcbc								0.0
"	"	7h	1033.0	-3	SSE	3	b	39	75	6	-	-	0	-	0	3×				bcb3		39	32		-	-	
20th	"	1h	1021.4	-6	SSE	3	b	36	75	7	-	-	0	-	0	×			b								7.5
"	"	7h	1017.2	-6	S	4	c	37	85	7	2500	StCu	8	-	8	4×				bbcc		35	30		-	-	
21st	Tiree	13h	978.5	-22	S	10	ow(r)	41	92	7	1500	Nb	10	-	10	8×		cr									0.0
"	"	18h	981.3	-1	SW	3	c	41	85	5	2500	CuNb	4	Ast	10	2×			irh	R	44	35	31	3	4	2200	
"	Guernsey	1h	993.8	-9	S	5	orr	44	97	5	2500	StCu	10	-	10	6×			opro								0.0
"	"	7h	992.2	-7	S	5	bc	42	92	8	1500	Nb	10	-	10	6×				orrof		38	36		6	<2100	
22nd	Guernsey	1h	989.0	-3	-	0	bc	41	92	8	4000	StCu	6	-	6	4×			bcepc								2.8
"	"	7h	988.8	+2	SSE	1	bc	41	92	7	4000	StCu	4	-	4	4×				cbcbc	47	37	28		0.2	<2100	
23rd	"	13h	989.8	-1	SSE	1	or-	43	92	7	1500	Nb	10	-	10	×	orrof									9.00	
"	"	18h	994.0	+7	NW	4	bcr	43	85	7	1500	StCu	6	-	6	5×		orofc						4			
"	"	1h	993.8	-3	S	4	bc	44	75	7	2500	StCu	4	-	4	6×			orcbc								0.2
"	"	7h	991.0	-3	S	4	or+	44	97	7	1500	Nb	10	-	10	5×				bcirc	45	39	28		1	<2100	
24th	Blacksod	18h	977.4	+1	W	3	bpr+	42	75	5	*	CuNb	6	-	6	7×		phbc						2		*	
"	"	1h	979.2	+1	W	3	bc-	46	65	5	*	CuNb	6	-	6	7×			phc	phbc	47	41			0.5		
"	"	7h	985.4	+4	W	4	bch(r)	45	65	7	2500	StCu	10	-	10	7×											
"	Guernsey	13h	990.8	-1	SSW	5	bc/r	51	92	6	2500	StCu	8	-	8	7×	o		bcpbc								0.0
"	"	1h	993.2	+5	W	5	bc/r	49	85	7	2500	StCu	8	-	8	7×				bcprc	51	45	40		4	<2100	
25th	Lerwick	7h	992.6	+8	W	4	bc	48	75	7	1500	StCu	4	Ast	8	7×											
"	Wick	1h	1000.1	-2	SE	3	bc	37	97	7	1500	Nb	10	-	10	×			oir								
"	Edinburgh	1h	991.1	-7	SSE	5	or	41	92	8	800	Nb	10	-	10	×											
"	Tynemouth	1h	984.1	-10	SE	5	orr	39	92	8	1500	Nb	10	-	10	×											
"	Spurn	1h	985.7	-9	SE	5	oR	40	97	8	2500	Nb	10	-	10	×			corr								
"	Gorleston	1h	985.4	-18	SE	8	orr	42	97	6	1500	Nb	10	-	10	×											
"	Pembroke	1h	976.8	-8	SSE	6	c-	51	75	7	1500	CuNb	4	Ast	8	×											
"	Scilly	1h	980.2	-1	SW	7	bc	51	75	7	4000	StCu	4	-	4	×											
"	Falmouth	1h	982.5	+1	WSW	7	c	51	85	7	4000	StCu	10	-	10	×											
"	Portland	1h	982.9	+2	S	8	oRR	53	85	6	800	St	10	-	10	×											
"	Roches Pt.	7h	969.7	-9	W	6	bc	45	92	7	1500	CuNb	5	-	5	6											
"	Goernsey	1h	983.6	+4	W	2	oRR	53	92	5	1500	Nb	10	-	10	×			orlbc	belorrbc	50	45			10	<2100	3.4
"	"	7h	991.6	-7	SSW	4	bcr	48	75	6	4000	StCu	8	-	8	7			opro								
26th	Valentia	13h	984.0	+15	W	7	cpr°	47	75	6	1500	St	8	-	8	2	bccp°			orqco	52	47	42		19	<2100	
"	Roches Point	13h	981.7	+12	WNW	5	bc	48	85	8	1500	CuNb	6	-	6	×	rcirqbc										
"	Pembroke	13h	979.8	+4	SW	9	cpr	49	97	7	1500	CuNb	8	-	8	×	cpq										
"	Roches Point	18h	991.4	+14	W	4	bc	43	97	8	1500	CuNb	4	-	4	6		bcpbc						3		<8.00	
"	Goernsey	18h	1000.2	+5	W	4	bc(sh)	46	85	6	2500	StCu	4	-	4	6		cphrc						4		12.30	
"	"	1h	1005.4	+5	W	4	bc	47	75	7	2500	StCu	6	-	6	×			cpnbc								
"	"	7h	1010.2	+6	WNW	2	bcpr°	44	75	9	2500	StCu	6	-	6	4				bccpr	52	43	38		1	<2100	3.1
"	Lerwick	1h	979.8	-1	SE	8	ogs°	35	92	7	1500	Nb	10	-	10	×											
"	Wick	1h	974.0	+5	NNE	3	c	45	97	7	1500	Nb	7	Ast	8	×			oirbc								
"	Edinburgh	1h	976.2	+12	WSW	5	b	44	85	8	1500	St	1	-	1	×											
"	Tynemouth	1h	977.8	+8	SW	6	bcjp	46	85	7	2500	Cu	5	-	5	×											
"	Blacksod	1h	996.1	+	W	6	c	44	65	7	-	-	0	ASt	10	×											
"	Spurn	1h	988.4	+2	W'S	8	bc	45	75	7	4000	StCu	4	-	4	×			bcq								
"	Gorleston	1h	996.8	+3	SW	6	b	45	92	7	-	-	0	-	0	×											
"	Scilly	1h	1003.5	+5	WNW	6	bc	45	75	8	4000	Cu	3	-	3	×											
"	Falmouth	1h	1003.1	+5	W	5	bcpr	43	75	7	4000	CuNb	4	-	4	×											
"	Portland	1h	1000.0	+6	WSW	7	b-	48	75	8	2500	StCu	2	-	2	×											
"	Roches Pt	7h	1006.9	+5	W	3	b	41	97	8	2500	CuNb	2	-	2	4			bc	bcb	49	38			-	-	
27th	Goernsey	13h	1014.2	+2	WSW	3	bc	49	65	8	2500	StCu	6	-	6	×	cpr°										
"	"	18h	1015.2	+2	SW	2	opr°	47	85	8	2500	Nb	10	-	10	4		cprcp						3		<8.00	
"	"	1h	1011.6	-5	SSW	3	oRR	48	97	6	800	Nb	10	-	10	×			corr								3.9
"	"	7h	1009.6	+2	W	3	cpR	50	92	5	800	StCu	8	-	8	5				corpr	49	46	41		6	<2100	
28th	"	1h	1011.4	+1	WNW	3	c	48	75	8	2500	StCu	8	-	8	×			bphrc								1.8
"	"	7h	1011.0	-1	SSW	2	or	48	92	6	1500	Nb	10	-	10	4				cprar	53	43	38		3	<2100	
29th	"	13h	1003.0	+	S	4	oRR	50	97	5	800	Nb	10	-	10	×	orRR										
"	"	18h	1002.6	×	WSW	4	orr°	53	97	5	800	Nb	10	-	10	6		oRR						13		<9.00	
"	"	1h	998.4	-7	SW	5	c	54	85	7	2500	StCu	10	-	10	×			oro								
"	"	7h	999.9	+18	W	8	c	51	75	5	1500	StCu	8	-	8	8				oroc	53	51	46		1	<2100	0.0
30th	"	13h	1010.4	+7	W	5	bc	52	65	6	2500	StCu	6	-	6	×	prcbc										
"	"	18h	1014.0	+4	W	5	bc	49	75	6	2500	StCu	6	-	6	7		cprc						0.1		9.00	
"	"	1h	1016.4	+2	WSW	4	bc	49	75	6	2500	StCu	6	-	6	×			cbcc								3.7
"	"	7h	1010.2	-10	SW	4	or+	49	85	8	1500	Nb	10	-	10	7				corr	52	48	43		0.5	5.30	
31st	"	1h	1014.0	+8	NNW	3	bc	47	75	8	2500	StCu	4	-	4	×			cbcbc								

* For 13.00 Observations this figure refers to "State of ground"

SWITZERLAND, GERMANY, ESTONIA, ETC. | DENMARK & HOLLAND. | SWEDEN. | NORWAY. | ICELAND, &c.

SPAIN, PORTUGAL, ETC. | FRANCE & BELGIUM. | S.E. EUROPE. | FINLAND & RUSSIA. | POLAND.