M.O FORM 2373

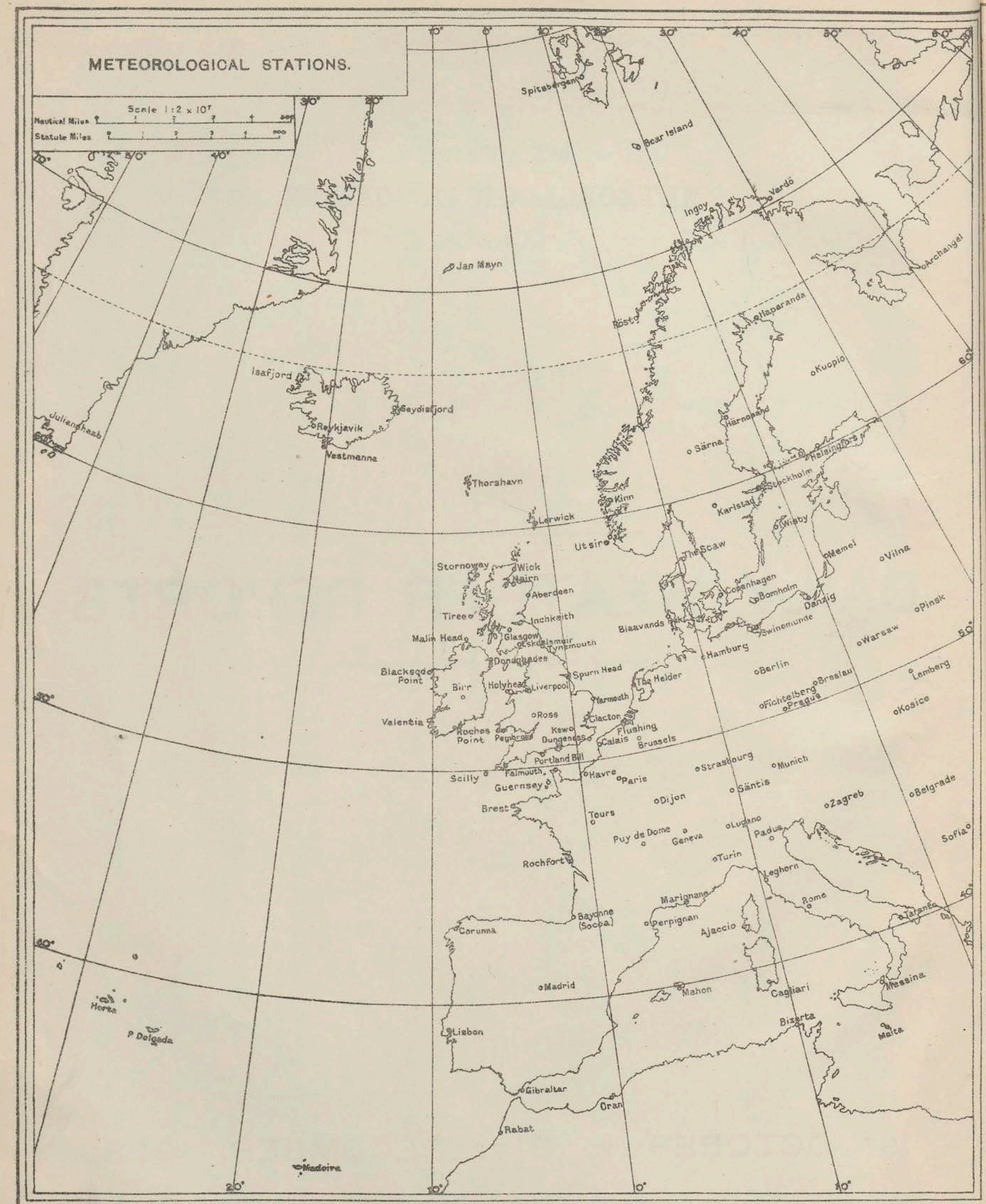
AIR MINISTRY.

METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

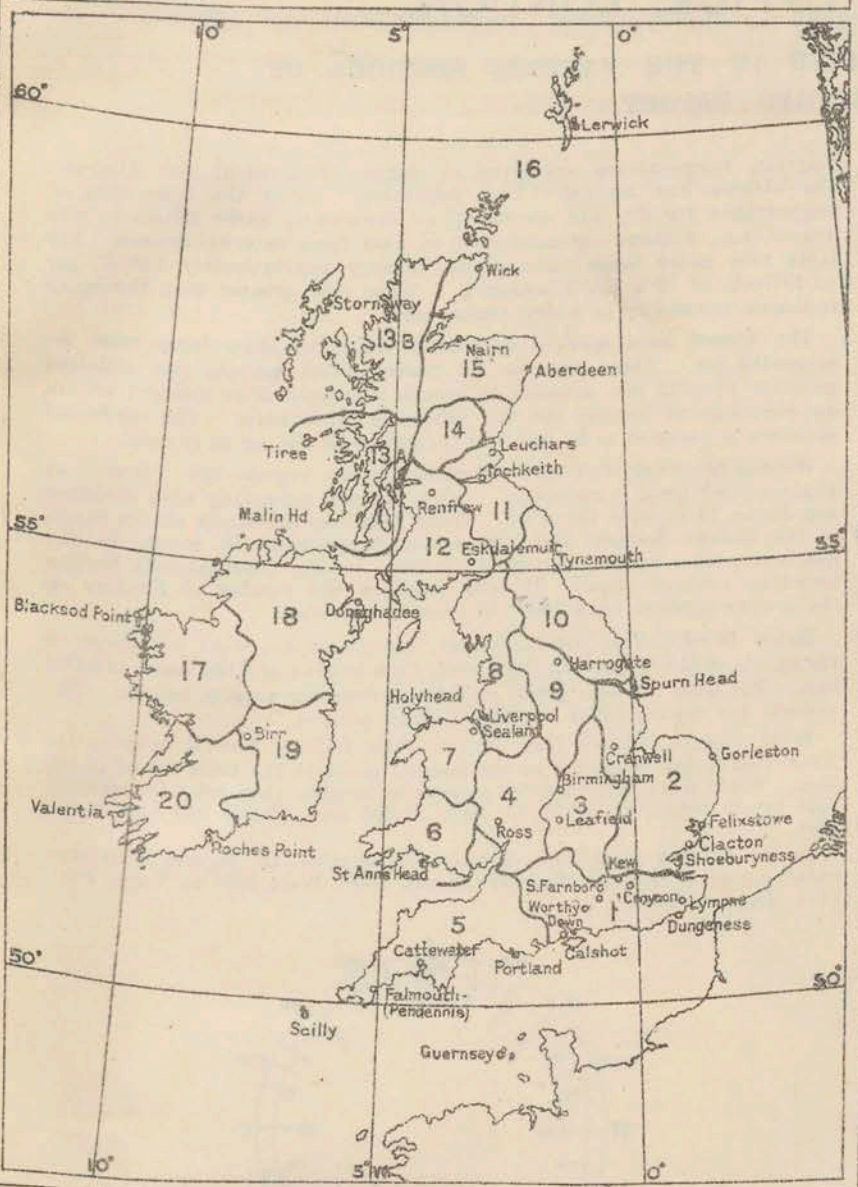
1ST OCTOBER TO 31ST DECEMBER, 1928.



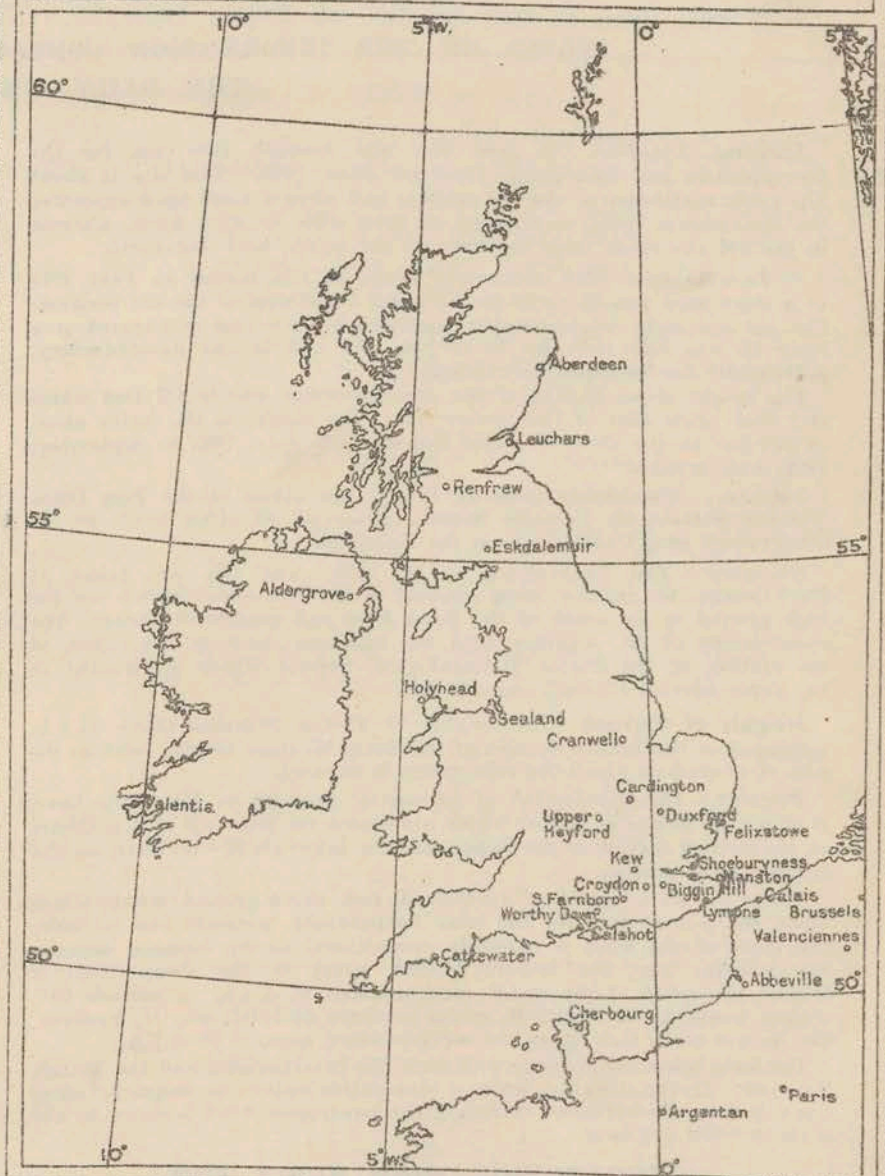
H.M. Stationery Office Press, Kingsway, W.C.2

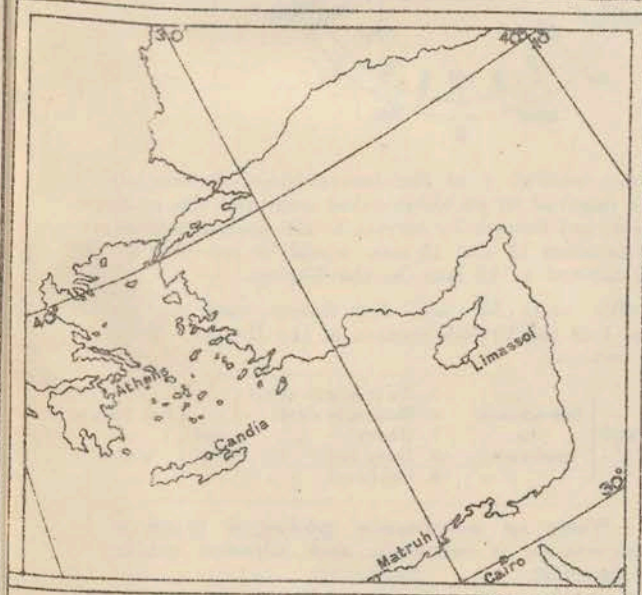
Ps.1147/1825. Wt.42. 9.6009. 900. 2/29.

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.
F thick fog " less than 200 m.
g gloomy. ip precipitation within sight of station.
p 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.
   Westmoriland.
   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.—*Aberdeen.* A new site was brought into use for the thermometers and rain gauge from 1st June, 1928. This site is about 170 yards north-east of the old position and gives a more open exposure, the instruments being surrounded on most sides by open fields, whereas in the old site there were buildings to the south, west and north.

S. Farnborough. The instrument enclosure was moved on June 27th to a more open site 65 yards to the north north-west of the old position. The old enclosure was somewhat sheltered by a 6 foot corrugated iron fence on one side and also by shrubs, and had become unsatisfactory, particularly for temperature readings.

The height above M.S.L. of the new raingauge site is 237 feet which is 1 foot below that of the former site. The height of the latter given as 230 feet in the Daily Weather Report from July, 1923 to September, 1928, was in error.

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.

Guernsey. The observations at 7h., 13h., and 18h. are taken at Fort George, the station being situated at 295 feet above M.S.L. on the high ground to the south of St. Peter Port and outside the town. The observations at 1h. together with the sunshine readings are taken at the station of the States Meteorological Service which is situated in St. Peter Port at 173 feet above M.S.L.

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.

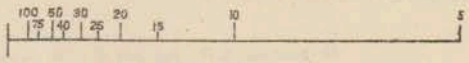
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section.

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 × 10^7 Charts.
or 2 mb „ „ 1 : 10^7 „
or 1 mb „ „ 1 : 5 × 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.

Relative Humidity.—From January 1st 1926, relative humidity at British stations has been 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 use of Glaisher's tables has been discontinued.

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.

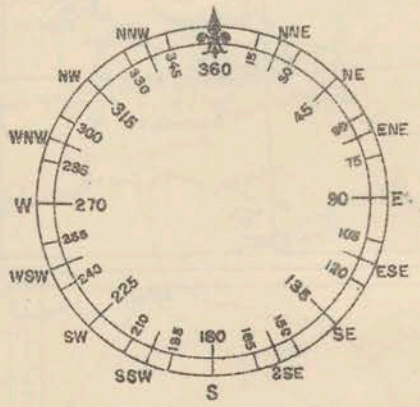
The broken lines marked Saturated Adiabatic show lapse rates for saturated air. These are for air masses which contain just sufficient moisture at 1,015 mb. pressure to become saturated after rising 1 km in an environment having the dry adiabatic lapse rate. The condensed moisture is assumed to be retained 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.—From January 1st, 1926, the times of Sunrise, Noon and Sunset published in the British Section of the Report for certain stations have been 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 now taken into account. This change was formerly neglected.

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 NOVEMBER 1928

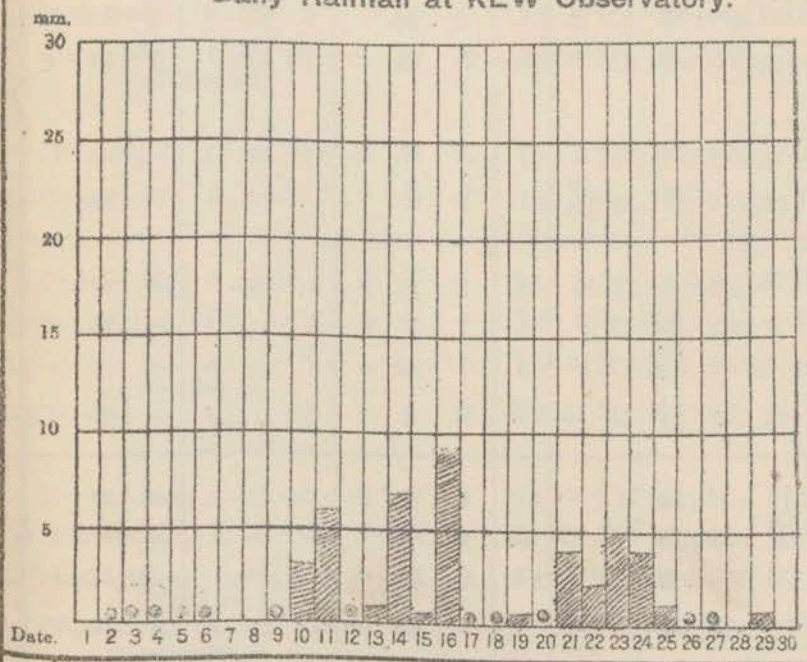
The weather during the first week of November was characterised by winds mainly between north and east, the absence of gales, occasional local rain, but very little in some districts and a rather low temperature. Some very heavy rain occurred, however, in parts of Kent during the 24 hours ending 5 p.m. on the 2nd, when 73mm. were measured at Deal and 65mm. at Dover. Widespread fog occurred from the 4th - 7th, and particularly on the 6th. Anticyclonic conditions prevailed on the 8th and 9th, when many places had good sunshine records and severe ground frosts occurred on the 9th and 10th.

From the 10th onwards there was a complete change of type. Conditions became unusually mild, unsettled, and very stormy. Strong winds, with local gales at times, were almost continuous until the 28th. The most notable gales were caused by very intense depressions which crossed the country on the 16th, 23rd and 25th and occasioned much destruction and some loss of life. The first of these depressions developed off Southwest Ireland and moved northeast across England, the second crossed Southern Scotland and the third passed to the North of Scotland. During each of these disturbances whole gales (velocity 60 m.p.h.) were reported in places and some very heavy gusts occurred, among the most noteworthy being 90 m.p.h. at Cardington on the 16th (measured by the anemometer at 150 ft.) and 93 m.p.h. at Liverpool on the 25th. At Edinburgh pressure fell to approximately 951 mb. on the 23rd, the lowest noted there since 1886, though it is a good deal higher then the lowest ever recorded there, which was 930 mb. and occurred in January 1884.

In the rear of the depression on the 25th, cold northerly winds from polar regions flowed over the country and temperature fell considerably. Showers of rain, hail and snow occurred locally while considerable periods of bright sunshine were enjoyed.

On the whole the month was very mild: at Kew Observatory the mean temperature for the month was 3.4°F. above the normal. November was also generally wet, although at a few stations, particularly in the South the total rainfall was below the normal. At Eskdalemuir it was the wettest November since records began in 1910 and the total for 1928 to date is now 2142 mm. (84.3 ins).

Daily Rainfall at KEW Observatory.



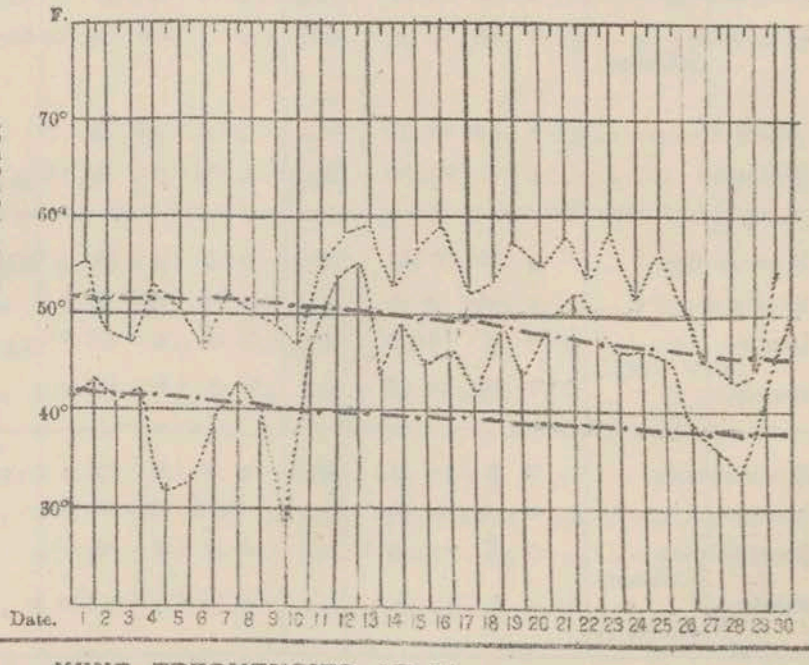
TEMPERATURE.

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 46 mm.

Daily Range of Temperature at KEW Observatory.

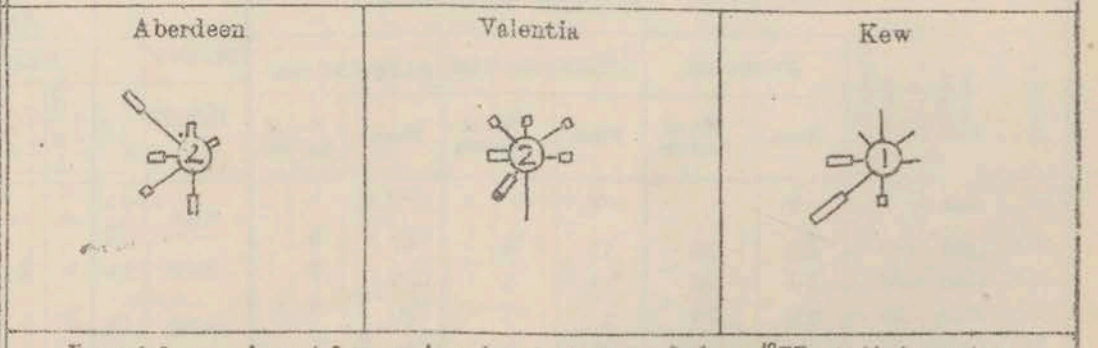


MEAN VALUES FOR THE MONTH.*

	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
	mb.	mb.	°F	°F.
Aberdeen	1001·7	−8·1	43·9	+1·4
Valentia	1008·5	−4·5	49·1	+1·4
Kew	1009·1	−5·5	47·7	+3·4

* 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: 10mm. 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.

	TEMPERATURE.																				LOW CLOUD.								
	Number of daily readings within fixed limits.											Extremes—Warmest and Coldest.								Number of Ground Frosts.	Number of observations within fixed limits.								
	† Maximum.					† Minimum.						Days.				Nights.					7H.			13H.			18H.		
	33 – 41	42 – 50	51 – 59	60 – 68	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 ...	1	23	6	0	47·6	0	3	17	10	0	38·0	55	{12 19	40	27	49	{12 30	27	8	*	1	29	0	2	28	0	0	30	0
Aberdeen ...	2	20	8	0	46·9	0	2	19	8	1	37·2	56	{12 29	40	28	53	30	27	9	6	2	27	0	4	25	0	2	22	0
Edinburgh ... (Inchkeith)	0	18	11	1	*	0	0	12	18	0	*	60	12	42	28	49	22	34	9	1	5	23	0	4	23	1	6	21	0
Renfrew	0	19	10	1	*	0	7	12	11	0	*	60	12	42	{3 28	50	{22 30	24	9	8	4	23	0	5	21	1	1	21	3
Eskdalemuir ...	4	19	7	0	*	1	4	18	7	0	*	54	30	39	{3 28	48	30	21	9	8	7	23	0	8	21	0	2	26	1
Dublin ... ... (Phœnix Park)	0	12	16	2	49·9	0	4	14	12	0	37·6	63	12	45	{2 3 27	50	12	31	28	11	*	*	*	*	*	*	*	*	*
Birr Castle ...	0	13	16	1	49·3	0	3	13	12	2	36·8	62	12	44	4	53	12	26	9	12	10	18	0	1	29	0	9	19	0
Valentia ... ... (Cahirciveen)	0	6	24	0	52·0	0	0	6	20	4	42·9	58	12	47	2	54	12	34	8	2	7	22	0	4	26	0	4	26	0
Tynemouth ..	0	19	10	1	48·4	0	0	11	19	0	38·1	61	12	42	28	49	{12 13 30	34	9	5	4	26	0	5	25	0	7	23	0
Holyhead ...	0	10	20	0	50·2	0	0	4	21	5	42·9	57	12	47	{4 27	54	12	37	9	1	9	19	1	5	25	0	2	24	1
Liverpool .... (Bidston) ...	0	17	12	1	48·5	0	1	13	13	3	40·2	60	12	43	{4 28	53	12	32	4	4	3	26	0	1	27	1	5	23	1
Cranwell	1	14	14	1	*	0	4	15	10	1	*	62	12	41	28	54	13	26	4	7	6	17	4	7	20	2	5	20	1
Gorleston ...	1	7	22	0	48·5	0	2	9	16	3	39·6	59	12	41	29	54	13	32	{7 10	1	3	18	1	4	19	3	7	16	0
Ross-on-Wye ...	0	14	16	0	49·3	0	2	11	14	3	37·8	58	{12 13	42	28	55	12	25	10	4	5	22	0	2	28	0	2	26	0
Leafield	2	14	14	0	*	0	4	15	9	2	*	58	12	39	28	52	{12 13	29	10	8	7	15	6	6	22	1	4	18	4
London ... ... (Kew Obsy.)	0	11	19	0	49·1	0	2	8	17	3	38·8	59	{13 16	43	28	55	13	29	10	5	7	19	1	5	22	0	5	15	0
Croydon	0	10	20	0	*	0	3	6	18	3	*	59	{13 16	42	28	54	{12 13	28	10	5	12	11	1	8	21	1	6	19	0
Shoeburyness ...	0	8	21	1	49·7	0	1	9	17	3	39·7	60	16	42	28	54	13	25	10	3	6	16	3	3	19	2	0	21	1
Lympne	*	*	*	*	*	*	*	*	*	*	*	*	*	40	{28 29	53	12	32	29	6	6	19	2	11	15	3	7	11	1
Southampton ... (Calshot)	0	8	22	0	*	0	1	8	19	5	*	58	{16 21	44	28	54	12	31	10	2	8	21	0	3	24	1	3	21	1
Falmouth ... (Pendennis)	0	6	24	0	*	0	0	4	16	10	*	58	16	47	3	55	12	39	9	*	0	30	0	1	29	0	0	30	0

UPPER AIR TEMPERATURE.

Pressure.	Normal Height.	Normal Temperature.	DUXFORD.		S.FARNBOROUGH.		ALDERGROVE.	
			Mean.	No. of Reports.	Mean.	No. of Reports.	Mean.	No. of Reports.
mb.	feet.	°F.	°F.		°F.		°F.	
950	1740	40	43	26	39	4	41	4
850	4690	34	34	26	29	5	29	7
750	7950	26	25	26	21	5	21	7
650	11,620	16	11	26	9	2	9	7
550	15,780	1	−2	24	–	–	−0.4	1

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	49	4	19	20	6	–	35	2	11	20	1	1	59	6	15	29	8	1
5,000	36	6	8	17	5	–	15	2	5	7	1	–	19	4	8	7	–	–
10,000	19	3	4	10	2	–	3	–	3	–	–	–	5	1	1	3	–	–
15,000	8	–	2	4	2	–	1	–	1	–	–	–	–	–	–	–	–	–

† 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, ...NOVEMBER.., 1928

	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 ...	7	17	6	0	0	5·2	5	1258	−1	47	+4	4	4	9	10	3	0	18	16	1226	−40	171	+23	0	0
Aberdeen ...	11	8	9	2	0	7·3	8	1204	−183	63	+8	5	5	14	5	0	1	27	23	806	+58	99	+24	0	5
♮Edinburgh ... (Inchkeith)	6	13	10	1	0	6·4	14	*	*	66	*	11	8	8	2	1	0	17	23	649	+95	57	+1	0	0
♮Renfrew	11	13	5	1	0	7·0	1	1143	*	42	*	8	7	5	8	1	1	27	23	1227	+302	133	+35	0	0
♮Eskdalemuir ...	14	10	6	0	0	5·6	26	1126	*	41	*	7	7	3	7	4	2	29	23	2117	+688	224	+77	0	1
Dublin ... ... (Phœnix Park)	11	8	9	2	0	7·7	17	1309	+2	70	−1	8	6	10	5	1	0	16	2	782	+77	92	+20	0	*
Birr Castle ...	8	14	6	2	0	6·6	8	1420	+77	60	−4	6	7	10	6	1	0	18	22	981	+152	99	+20	1	0
Valentia ... ... (Cahirciveen)	10	12	4	4	0	8·2	1	1413	−32	58	−7	5	5	8	7	5	0	24	21	1770	+356	186	+47	1	0
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	8	8	10	4	0	0	15	16	722	+101	61	+7	0	0
Holyhead ...	9	15	3	3	0	7·6	6	1582	*	57	*	10	4	5	8	1	2	27	14	957	+109	153	+48	0	0
♮Liverpool ... (Bidston) ...	9	13	6	2	0	6·9	9	1424	−32	52	−7	10	4	9	7	0	0	13	11	721	+12	83	+19	0	0
♮Cranwell	7	14	6	3	0	7·1	9	1579	*	67	*	10	6	10	4	0	0	10	16	611	+21	53	+6	0	0
Gorleston ...	13	9	6	2	0	7·2	17	1709	*	60	*	7	9	10	4	0	0	10	27	573	−49	73	+12	2	1
Ross-on-Wye ...	9	14	6	1	0	6·1	17	1496	*	56	*	11	4	10	5	0	0	14	21	753	+35	75	+11	0	0
♮Leafield	9	10	9	2	0	7·3	17	1567	*	63	*	11	5	9	4	1	0	20	21	760	+66	84	+18	0	0
London ... ... (Kew Obsy.)	8	14	6	2	0	7·6	9	1631	+156	55	+3	14	7	5	4	0	0	9	16	674	+68	46	−10	0	0
♮Croydon	11	12	6	1	0	7·8	5	1667	*	48	*	13	5	8	4	0	0	11	16	795	+116	56	−13	0	0
Shoeburyness ...	10	10	6	4	0	7·8	9	1842	*	68	*	11	11	6	2	0	0	7	16	551	+71	42	−10	0	0
♮Lympne	9	11	4	6	0	8·1	5	1898	*	71	*	8	4	7	10	1	0	20	1	848	+124	119	+38	0	0
♮Southampton ... (Calshot)	10	8	7	5	0	8·2	9	1830	*	74	*	10	9	6	5	0	0	14	14	754	+108	58	−9	0	0
Falmouth ... Observatory	9	12	6	3	0	8·0	10	1729	−30	59	−17	10	4	7	7	2	0	17	22	1190	+83	117	−5	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	3	15	11	1	0	0	0
Renfrew... ...	0	0	5	15	9	1	0	0	0
Eskdalemuir ...	0	0	6	16	7	1	0	0	0
Valentia... ...	0	1	5	8	12	4	0	0	0
Ross on Wye ...	1	2	3	8	10	6	0	0	0
London ... ... (Kew Obsy.)...	0	2	2	8	12	6	0	0	0
Falmouth ...	0	1	8	8	11	2	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	12	18	0	0	0	0	0	0	0
Renfrew... ...	0	4	25	1	0	0	0	0	0	0
Eskdalemuir ...	0	2	28	0	0	0	0	0	0	0
Valentia... ...	4	1	21	0	0	4	0	0	0	0
Ross on Wye ...	0	0	30	0	0	0	0	0	0	0
London ... ... (Kew Obsy.)...	0	22	8	0	0	0	0	0	0	0

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Hard ground frozen (but less than 3 ins. deep).
4=Hard ground frozen (but more than 3 ins. deep).
5=Dew or wet grass (but not wet ground).
6=Sleeting to-day in 1800 and 1500 reports (Hoar frost in 0900 and 0600 reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep impeding traffic, usually a continuous layer).
9=Glazed frost (ice on roads from freezing 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.

‡ 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 ..... NOVEMBER, 1928.

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.

——— = 1,020 mb. and above. -·-·- = 1,000 mb. x—x—x—x = 980 mb. —o—o—o— = 960 mb.

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 18h. 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.24451 Thursday 1st November 1928.

Observations at 13h. G.M.T. 31st Oct.

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	1008.4	+9	NE'N (NNE)	3	cjp	45	85	8	1500	CuNb	5	A.St	9	•
Stornoway	1015.4	+7	N	6	bc/r	45	75	7	4000	CuNb	6	-	6	•
Wick	1010.2	+9	NE	5	c	46	85	8	1500	CuNb	6	Ci.St	8	•
Tiree (NNE)	1012.2	+6	~~NE~~	8	bc	47	75	8	2500	Cu	5	-	5	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1006.6	+8	NNW	4	cr_0	47	85	8	1500	Nb	3	A.Cu	9	2
Malin Head	1012.1	+9	N	8	bc/pr_0	48	92	7	5700	CuNb	5	-	5	•
Renfrew	1006.7	+8	NNE	4	c	49	65	9	4000	St.Cu	4	A.St	9	2
Edinburgh (Inchkeith)	1004.0	+6	NNE	5	c/r	48	75	8	1500	St	6	A.St	10	•
Leuchars	1005.8	+8	N	3	c	48	75	8	1500	Nb	7	A.Cu	9	2
Eskdalemuir	1003.3	+7	NNE	6	crr	45	97	7	1500	Nb	8	A.St	10	2
Tynemouth	1002.4	+6	S	2	c	50	85	6	1500	Nb	8	-	8	•
Blacksod Point	1016.8	+6	N	7	bc	48	55	8	*	CuNb	6	-	6	*
Donaghadee	1005.8	+10	NNE	7	cr-	50	75	8	2500	Nb	8	-	8	•
Birr Castle	1009.3	•	N	5	c	48	75	7	1500	Cu	8	-	8	•
Holyhead	999.4	+5	N	6	cR	53	92	7	800	Nb	9	-	9	2
Liverpool (Bidston)	997.9	+4	SW'S	3	c/pr_0	51	92	8	2500	Nb	9	-	9	•
Chester (Sealand)	997.8	+3	SW	2	cr•	54	75	8	1500	St	9	-	9	1
Harrogate	1001.3	+3	SE	3	c+	48	85	5	4000	Nb	9	A.St	10	•
Spurn Head	1002.3	+1	S'E	5	bc+	54	75	7	4000	Cu	5	-	5	•
Birmingham (Edgbaston)	1001.0	+1	S	4	cjp	52	75	8	2500	Nb	9	-	9	2
Cranwell	1002.4	+1	S	4	c+	54	85	8	2500	CuNb	9	-	9	1
Gorleston	1005.8	0	S'W	5	bc	55	85	7	4000	Cu	4	-	4	•
Valentia (Cahirciveen)	1015.2	+4	N	6	bc	47	75	8	2500	StCu	7	-	7	2
Roches Point	1009.7	+4	N	6	c	50	75	8	2500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1003.7	+5	NW	4	c	51	85	7	1500	StCu	8	A.St	10	•
Ross-on-Wye	1001.6	+2	SW	3	bc	55	75	7	4000	Cu	5	-	5	2
Leafield	1002.7	+2	SW'S	4	c+	52	75	9	4000	StCu	9	-	9	1
Winchester (Worthy Dn)	1004.1	+1	S'W	3	c/pr_0	57	65	8	2500	CuNb	6	Ci	8	2
S. Farnborough	1004.2	0	SSW	4	b/pr_0	55	85	8	1500	CuNb	2	-	2	2
London (Kew Obsy.)	1004.7	+1	S	3	bc/pr_0	55	75	8	2500	Nb	6	A.Cu	7	1
Croydon	1005.0	+1	SW'S	4	c/r	55	85	7	1500	Nb	8	-	8	2
Shoeburyness	1006.1	+1	SSW	5	b	57	85	8	4000	StCu	2	-	2	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1006.5	+1	S'W	5	b	56	65	9	4000	Cu	1	-	1	1
Lympne	1006.7	0	SSW	5	bc-	54	75	8	2500	Cu	6	-	6	1
Scilly (St. Mary's)	1008.7	+2	NNW	7	c	49	85	6	4000	StCu	10	-	10	•
Falmouth (Pendennis)	1005.8	+1	NW'N	3	c/pr_0	52	85	8	4000	CuNb	6	A.St	8	•
Plymouth (Cattewater)	1005.0	+1	NNW	4	bc+	53	75	8	2500	CuNb	6	-	6	2
Portland Bill	1003.6	+1	WSW	4	bc-	55	75	8	2500	Cu	4	-	4	•
Southampton (Calshot)	1004.6	0	SW'W	4	bc	55	75	8	2500	Cu	3	A.Cu	5	1
Dungeness	1006.7	+1	WSW	5	bc-	55	75	8	2500	Cu	4	-	4	•
Guernsey (Fort George)	1006.2	0	WSW	3	bc/r	55	85	8	1500	CuNb	6	-	6	•

Observations at 18h. G.M.T. 31st Oct.

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	Sea. 0-9
Lerwick	1014.5	+12	NNE	5	cr_0	44	75	7	1500	Nb	7	A.St	10	•
Stornoway	1020.5	+7	N	6	bc/pr_0	41	85	7	4000	CuNb	7	-	7	5
Wick	1014.4	+7	N	5	d	46	85	8	1500	Nb	6	Ci.St	8	4
Tiree	1017.4	+5	NNE	8	bcr	45	85	7	2500	Nb	6	-	6	8
Nairn	1016.2	•	N'E	5	c	45	85	8	1500	CuNb	8	-	8	•
Aberdeen	1012.6	+8	NNW	4	c/pr_0	46	85	8	1500	Nb	6	A.Cu	8	1
Malin Head	1017.0	+8	N	8	bc	48	85	7	4000	Cu	6	-	6	8
Renfrew	1013.3	+8	NE	3	c	47	65	8	4000	St.Cu	9	-	9	•
Edinburgh (Inchkeith)	1010.0	+8	NNE	6	bc	47	75	8	5700	StCu	5	A.Cu	7	4
Leuchars	1012.2	+7	N	4	bc	45	75	8	1500	StCu	5	-	5	•
Eskdalemuir	1010.0	+7	NNE	6	cr	43	85	7	1500	Nb	10	-	10	•
Tynemouth	1007.6	+6	NNE	3	or_0r_0	48	97	6	1500	Nb	10	-	10	1
Blacksod Point	1019.7	+4	N	8	bc+	48	65	8	*	CuNb	7	-	7	9
Donaghadee	1012.4	+9	NNE	7	c-	49	75	8	2500	Cu	8	-	8	5
Birr Castle	1012.9	•	N	5	c	46	85	7	1500	Cu	8	-	8	•
Holyhead	1006.7	+8	N'E	8	c/r	51	92	7	1500	St	10	-	10	7
Liverpool (Bidston)	1004.0	+6	N	4	[illegible]	49	97	5	450	St	10	-	10	•
Chester (Sealand)	1003.4	+8	NE'N	2	c	50	85	6	4000	StCu	10	-	10	•
Harrogate	1006.2	+5	NNE	3	or_0f_0	47	97	5	2500	St	10	-	10	•
Spurn Head	1005.8	+2	SE'S	3	c	52	92	7	4000	CuNb	9	-	9	3
Birmingham (Edgbaston)	1005.0	+4	S	2	b-	48	92	5	4000	StCu	1	-	1	•
Cranwell	1005.7	+5	ESE	2	c	50	92	7	4000	StCu	9	-	9	•
Gorleston	1007.8	+3	S'W	3	b	50	85	6	-	-	0	A.St	2	0
Valentia (Cahirciveen)	1018.4	+3	N'E	6	bc	49	75	8	2500	Nb	7	-	7	3
Roches Point	1013.5	+5	N	5	c	48	75	8	2500	CuNb	8	-	8	4
Pembroke (St. Ann's H.)	1005.9	+3	NW	4	or_0f_0	50	92	7	800	Nb	10	-	10	2
Ross-on-Wye	[illegible]	+2	SW'S	2	b	47	85	8	4000	StCu	1	-	1	•
Leafield	[illegible]	+3	S'W	2	b-	45	~~97~~ 92	7	4000	StCu	1	-	1	•
Winchester (Worthy Dn)	1006.3	+3	S'E	1	bc	47	85	8	2500	CuNb	7	-	7	•
S. Farnborough	1006.3	+4	SE	3	b	48	92	5	4000	StCu	1	-	1	•
London (Kew Obsy.)	1006.9	+4	S	2	b	50	85	5	-	-	0	A.St	1	•
Croydon	1006.8	+3	SSW	3	bc-	51	85	5	4000	StCu	2	A.Cu	4	•
Shoeburyness	1007.6	+2	SSE	3	bc+	50	97	6	2500	Cu	3	-	3	•
Clacton-on-Sea	1007.8	+4	SSE	3	bc	53	85	7	4000	Cu	4	-	[illegible]	[illegible]
Felixstowe	1007.9	+2	S'W	4	b	52	85	8	4000	StCu	1	-	1	3
Lympne	1008.1	+4	S'W	3	bc	49	85	8	2500	Cu	4	Ci	5	•
Scilly (St. Mary's)	1010.3	+2	NNW	6	c/pr_0	50	75	8	4000	StCu	8	-	8	6
Falmouth (Pendennis)	1008.1	+3	NNW	4	bc/pr_0	49	65	7	4000	CuNb	5	A.St	7	1
Plymouth (Cattewater)	1007.2	+2	NNW	3	cr_0	50	92	6	1500	Nb	9	-	9	1
Portland Bill	1005.6	+2	N	3	c+	54	75	8	2500	Cu	7	A.St	10	2
Southampton (Calshot)	1006.5	+3	W'S	2	bc	49	85	8	2500	StCu	3	-	3	0
Dungeness	1007.8	[illegible]	[illegible]	3	bc-	54	75	8	2500	Cu	4	-	4	5
Guernsey (Fort George)	1007.3	+2	[illegible]	[illegible]	bc-	50	85	8	2500	CuNb	4	-	4	3

LONDON OBSERVATIONS.

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

Station	Heights above M.S.L. in feet	Weather Morning (24 hours ended 9h)	Weather Afternoon	Weather Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	[illegible]	[illegible]	[illegible]	56	41	39	·3	Tr	5.3	*	*	[illegible]
Croydon	244	[illegible]	[illegible]	[illegible]	56	45	39	[illegible]	·3	4.7	*	*	[illegible]
Greenwich (Royal Obsy.)	142	[illegible]	[illegible]	[illegible]	57	[illegible]	[illegible]	Tr	Tr	5.3	79	91	[illegible]
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	4.9	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	57	47	41	-	-	6.9	99	83	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	5.6	*	*	*
Camden Square	110	[illegible]	cbc	*	57	45	-	·03	-	*	*	88	*
Kensington Palace	80	[illegible]	c	*	58	40	37	-	-	*	(At 18h) 79	86	*
Hampstead Observatory	450	*	*	*	55	42	30	1	·2	3.8	*	89	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
1.2	[illegible]	·03	[illegible]

Kew Observatory			
Max.	Time.	Min.	Time.
·09	[illegible]	·01	[illegible]

POLE STAR RECORD at Greenwich Obsy.

Exposure from 31st 17 h. 30 m. to 1st 6 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12.30	4.08	33
δ Ursae Minoris	12.30	3.27	28

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 2nd Nov., 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.51 6.53	11.37 11.37	16.22 16.20
Greenwich	6.55 6.57	11.44 11.44	16.31 16.30
Wick	7.30 7.32	11.56 11.56	16.21 16.19
Valentia	7.37 7.39	12.25 12.25	17.11 17.10

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.

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

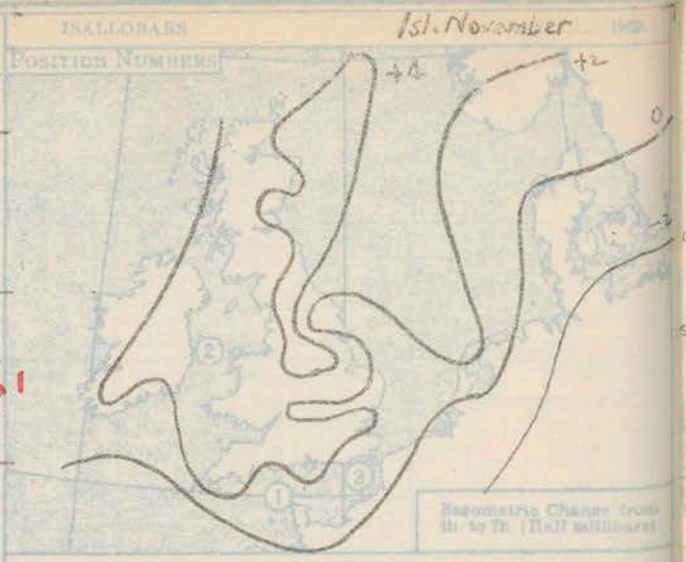
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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 2070.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 31st	13h.-18h. 31st	18h. 31st to 1h. 1st	1h.-7h. 1st	TEMPERATURE. MAX. Day. 7h.-13h.	MIN. Night. 13h.-7h.	MIN on Grass	RAINFALL. Day. 7h.-18h. mm	began.	Night 18h.-7h. mm.	began.	SUN 31st Hours.
Lerwick	bccpr	cpr.q	bcc	cpr.bc	47	38	•	1	<8.00	Tr.	23.30	0.2
Stornoway	p	p	p	cpr.c	46	36	•	0.6	<8.00	1	21.00	2.9
Wick	c r.c	cLRc	cpr.	cpr.	47	42	•	2	<8.00	0.6	21.00	•
Tiree	prbcq	prbcq	pr.bc	bcq	48	43	32	0.3	<8.00	Tr.	21.00	3.0
Nairn	cqp	cq	cqpr	qc	46	40	•	0.1	11.00	0.1	21.00	0.0
Aberdeen	r.rrcr.	cpr	cerb	bbcc	48	41	37	4	<8.00	1	21.00	0.0
Malin Head	cbcqpr	bcqp	bccp	cbc	50	46	•	0.2	<8.00	--	-	1.6
Renfrew	cr.c	c	cbc	bcb	49	40	33	0.2	<8.00	--	--	0.0
Edinburgh (Inchkeith)	orrcq	cq.bc	bcq	b.bc	48	42	35	4.2	<8.00	--	-	0.0
Leuchars	cRr.c	c.bc	bc	bcbw	48	38	31	4	<8.00	--	-	0.21
Eskdalemuir	ccr	cir.	cir.	cir.c	47	40	29	7	9.00	1	21.00	0.0
Tynemouth	c	coir.	or.r.	oid.q	50	47	45	0.1	15.30	2	21.00	•
Blacksod Point ...	pcq	pcq	phc	pc	50	46	•	1	•	1	•	•
Donaghadee	cir	circ	cbcc	cbc	51	46	•	3	<8.00	-	--	•
Birr Castle	c	(1)cpr	c	c	49	43	39	0.2	13.30	-	-	3.2
Holyhead	rr.bc	ir	c	irr.	53	48	47	2	<8.00	44	44.30	0.0
Liverpool (Bidston) ...	bccp.	pome	om.rr	ocrm.	52	47	46	0.6	9.00	5	21.00	2.3
Chester (Sealand) ...	pr.bcc	cr.m.	cm.	cir.m.	56	49	46	Tr.	<8.00	0.3	22.00	2.0
Harrogate	cbcc	car.r.	orrR	o.r.o	49	46	45	1	13.30	10	21.00	1.2
Spurn Head	bbc	bcc	cw	cw	55	48	•	--	-	Tr.	-	5.
Birmingham (Edgbaston)	cbcc	cbcb	bbcm	mfo	53	45	38	-	-	-	-	3.3
Cranwell	bcb.c	c	cmf	cfm	56	42	39	-	-	-	-	5.4
Gorleston	bcq	bcq.b	bbcw	bbcwc	58	44	40	-	-	Tr.	-	7.8
Valentia (Cahirciveen)	cphbc	bcp.y	cpc	bccpbc	51	46	42	2	<8.00	0.6	21.00	2.8
Roches Point	c	cp.c	cbc	bcc	56	43	•	Tr.	15.30	-	-	•
Pembroke (St. Ann's H.)	cr.m.	cr.r.r	cqP	c	52	48	•	3	<8.00	1	22.00	0.0
Ross-on-Wye	bc	bccbcb	bwc	com.	55	42	37	-	-	-	-	4.1
Leafield	bbcp.bc	cbc	bwbcb	bccc	54	39	29	-	-	Tr.	-	3.3
Winchester (Worthy Dn.)	bcprcr	cbc	bcc	cfefe	58	41	34	0.1	<8.00	Tr.	-	5.7
S. Farnborough ...	bcpcpbc	bbcb	bm.	bmwaf	56	35	29	1	<8.00	Tr.	-	6.7
London (Kew Obsy.) ...	bbcp.	bcp.	bfw	fwcmw	56	41	34	0.3	11.00	Tr.	-	5.3
Croydon	cbccr	crr.bcm	bccm.	bamerc	56	45	39	1	9.00	0.5	1.30	4.7
Shoeburyness	bcprb	bc	bc	c	58	43	33	0.2	11.00	-	-	6.7
Clacton-on-Sea ...	bc	c	bc	bcc	56	48	44	-	-	-	-	7.0
Felixstowe	bcbv	b	cw	bccz.	57	44	34	-	-	Tr.	-	8.4
Lympne	bccbc	bcbbc	bcc	cm.	55	44	36	-	-	Tr.	6.30	7.2
Scilly (St. Mary's) ...	cp.tm	cp.	cp.	cm.	52	47	•	0.5	9.00	3	21.00	0.1
Falmouth (Pendennis)	cp.	cprq	bccpr	bcPRc	53	49	•	1	<8.00	2	21.00	1.1
Plymouth (Cattewater)	bcpr	bccr.m.	cr.m.b	cbw	54	48	44	0.1	12.30	Tr.	21.00	3.6
Portland Bill	cqpbc	bccv	cbc	bccz.	56	47	•	2	<8.00	-	-	•
Southampton (Calshot)	cmrPRcb	bc	bcwm	bcwm.	56	46	34	2	9.00	-	-	4.6
Dungeness	cbc	bcbc	bcc	c	56	49	•	-	-	-	-	•
Guernsey	cprq.	bc	bcpc	cpr	53	49	•	3	<8.00	2	21.00	4.6



Observations from Cross Channel Steamers.

Position	Date and Time	Steamship	Wind. Direc.	Wind. Force	Weather.	Temp. Air.	Temp. Sea.	Visibility
2	10h. 31st	CAMBRIA	NNW	8	c	53	56	6
3	2h. 1st	DIEPPE	SE	2	c	55	57	6

GENERAL INFERENCE.

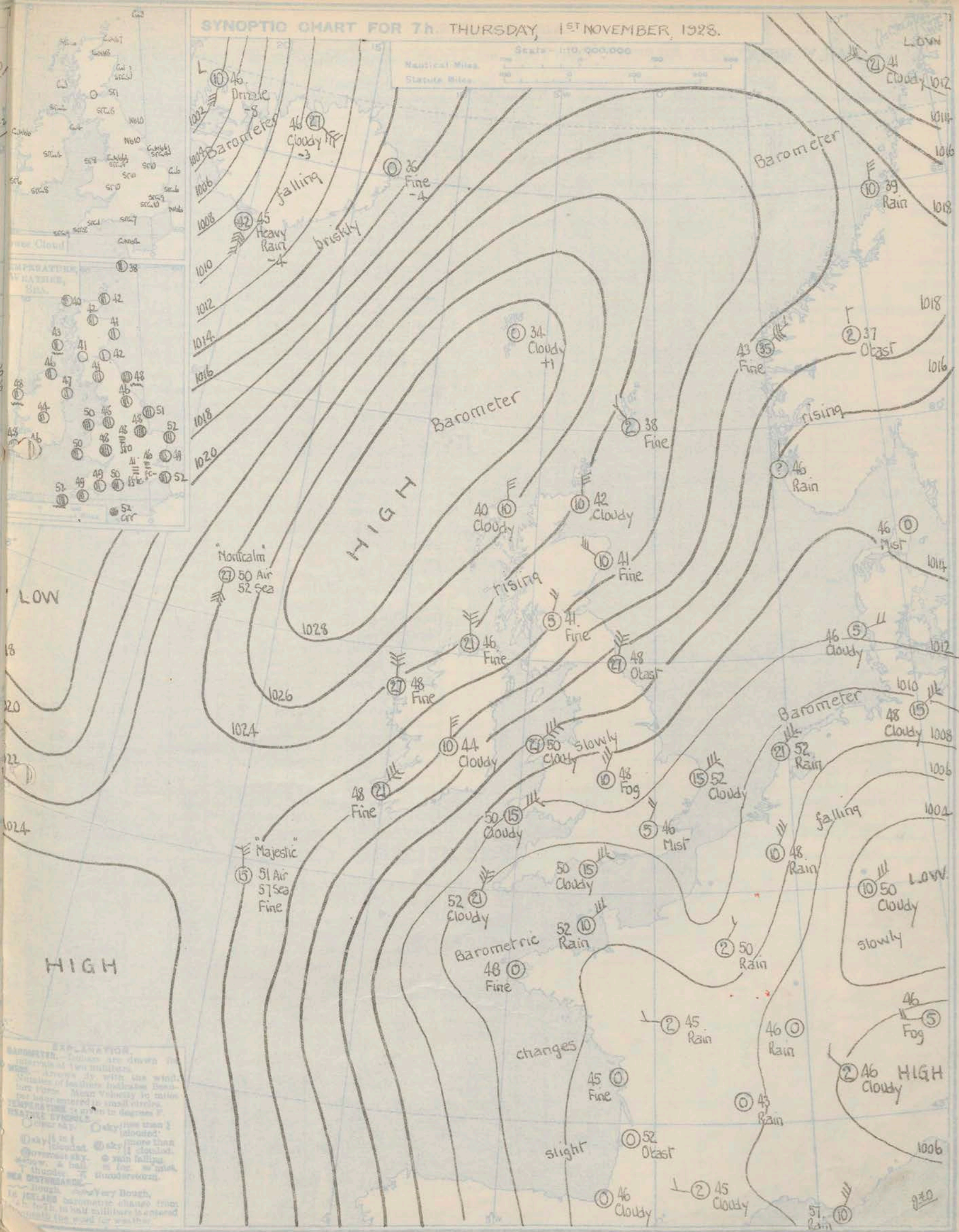
An anticyclone between Scotland and Iceland is moving southeastwards. A depression moving northeastwards between Iceland and Greenland has an extensive trough of low pressure south of the centre. Weather will be fair in all districts at first but rain will occur later in Scotland and Ireland.

Districts. Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 1st November, 1928. Further Outlook.

Districts	Forecast	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh northerly winds; fair inland; drizzle on the coast; mist or fog inland at night; moderate temperature.	Fair in the South; showers in the North.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Moderate N. to N.E. winds; fair; mist or fog inland at night; 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 17. N.W. Ireland 18. N.E. Ireland	Moderate north westerly winds, backing temporarily to S.W., becoming fresh to strong; fair at first, rain later; moderate temperature.	
19. S.E. Ireland 20. S.W. Ireland	Moderate northerly winds; fair at first, rain later; moderate temperature.	

RSR

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at: 0930 G.M.T. G. C. SIMPSON, 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. Thursday, 1st November 1928. No. 306.

Stations	Height above M.S.L. in feet	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	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	54	1019.7	+2	N'E	4	c	43	75	8	1500	Cu.	6	A.St.	9	1012.7	+3	NW	1	bc	39	92	8	1500	Cu.	3	A.St.	7	*
Stornoway	80	1025.7	+3	NE	4	c/pr	*	*	7	*	*	*	*	8	1026.4	+1	N	3	c	40	75	7	4000	St.Cu.	6	A.Cu.	8	2
Wick	81	1023.3	+4	N	5	c/pr	43	75	8	1500	Cu.Nb.	8	A.St.	10	1025.1	+4	N	3	c/	42	75	8	2500	Cu.Nb.	7	A.St.	10	3
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.6	+1	NNE	6	bcu	43	65	9	4000	Cu.	3	-	3	6
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.9	*	NNE	3	c	42	75	8	1500	Cu.Nb.	8	-	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.1	+3	NW	3	bc/p	41	75	8	2500	St.Cu.	7	-	7	1
Malin Head	51	1022.0	+3	N	6	c	49	85	8	4000	Cu.	8	-	8	1022.0	+2	N	5	bc	46	85	8	5700	St.Cu.	2	A.Cu.	3	5
Renfrew	50	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.0	+3	NNE	2	bv	41	85	9	-	-	0	-	0	*
Edinburgh (Inchkeith)	180	1017.4	+7	NNE	6	bc	45	75	8	-	-	0	A.Cu.	3	1020.9	+3	NNE	5	b	42	75	8	1500	St.		A.Cu.	2	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.9	+5	N	2	b	39	85	8	4000	St.Cu.	1	Cu.	2	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.2	+4	NNE	5	c	41	85	8	1500	St.Cu.	8	-	8	*
Tynemouth	67	1014.1	+4	NNE	5	c/p	49	85	7	1500	Nb.	10	-	10	1017.1	+4	NNE	6	c/p	48	92	7	1500	Nb.	10	-	10	6
Blacksod Point	18	1022.4	+2	N	7	c	51	75	7	*	Cu.Nb.	7	-	7	1023.1	+1	N	6	bc	48	75	8	*	Cu.Nb.	6	-	6	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.2	+3	NE	6	bc-	47	65	8	2500	Cu.	4	-	4	5
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.1	*	N	3	c+	44	85	7	2500	St.Cu.	4	A.St.	10	*
Holyhead	26	1012.9	+4	NNE	7	c	51	92	7	2500	St.Cu.	10	-	10	1015.6	+3	NE'N	6	c/r	50	85	8	2500	St.	8	A.St.	9	5
Liverpool (Bidston)	188	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.0	+4	NE	4	c/r	49	85	6	1500	St.Cu.	10	-	10	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	Scal-Lw	1015.4	+3	NNE	4	c/r	48	85	6	2500	Nb.	9	-	9	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.4	+1	N	4	o	46	97	6	2500	Nb.	10	-	10	*
Spurn Head	29	1010.7	+2	E'S	1	c	50	97	7	4000	Cu.	9	-	9	1013.5	+2	NNE	4	c	51	97	7	4000	Cu.Nb.	10	-	10	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.9	+3	NNE	3	fpo	48	97	2	1150	St.	10	-	10	2
Cranwell	236	1011.2	+6	NE'N	1	fc+	45	97	3	4000	St.	10	-	10	1013.9	+4	NNE	3	o/f	48	97	6	800	St.	10	-	10	*
Gorleston	14	1011.7	+2	-	0	bc-	49	92	7	4000	Cu.	4	-	4	1011.6	+1	NE	4	c+	52	85	6	2500	Cu.	6	A.Cu.	9	1
Valentia (Cahirciveen) P	30	1021.1	0	N	4	7c7	48	85	8	*	A.St.	9	-	9	1020.5	+2	NNE	5	bc	48	75	8	2500	St.	6	-	6	3
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.1	+1	N	5	c	46	75	8	2500	St.Cu.	8	-	8	4
Pembroke (St. Ann's H.)	150	1009.1	+1	N	4	c/p	51	92	8	1500	St.Cu.	10	-	10	1010.8	+3	NE	4	c	50	85	7	1500	Cu.	7	A.Cu.	9	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.5	+2	E'N'E	3	o	48	92	5	800	St.	10	-	10	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+2	NE	3	mmo	45	97	4	220	St.	10	-	10	*
Winchester (Worthy Dn.)	272	*	*	*	-	*	*	*	*	*	*	*	*	*	1010.7	+3	N	3	fpc	44	97	3	1500	St.Cu.	10	-	10	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.1	+3	-	0	fpc	41	97	3	4000	St.Cu.	10	-	10	*
London (Kew Obsy.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.7	+2	NNE	2	fc-	46	92	4	2500	St.Cu.	9	-	9	*
Croydon	244	1009.5	+1	ESE	2	c	47	97	5	2500	St.Cu.	9	-	9	1011.2	+1	NE'E	1	fpc	45	97	4	5700	St.Cu.	5	A.Cu.	9	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.0	+2	NNE	4	c	48	97	7	7200	St.Cu.	6	A.St.	8	*
Cleeton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.1	+2	N	3	c	49	85	7	4000	St.Cu.	8	-	8	2
Felixstowe	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.3	+1	NNE	3	c	48	92	6	4000	St.Cu.	6	A.Cu.	9	2
Lympne	350	1009.3	+1	E'N	2	c	47	97	5	2500	St.Cu.	9	-	9	1009.7	+1	N'E	3	c/o	49	85	6	4000	St.Cu.	10	-	10	*
Scilly (St. Mary's)	163	1010.8	-1	N'W	7	c	51	85	6	4000	St.Cu.	10	-	10	1009.8	-1	NNE	5	c	52	85	7	4000	St.Cu.	9	-	9	6
Falmouth (Pendennis)	200	1007.8	-1	NW	3	bc/p	50	97	7	4000	Cu.Nb.	4	A.Cu.	6	1008.7	+1	N'E	2	c+	49	92	7	4000	St.Cu.	8	A.St.	10	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.4	+2	NE	3	bc	49	85	7	4000	St.Cu.	1	Cu.	5	0
Portland Bill	32	1007.4	+1	NE'E	3	bc	51	85	8	5700	St.Cu.	3	Cu.St.	5	1008.7	+3	NE	4	c	50	85	6	2500	St.Cu.	7	A.St.	10	1
Southampton (Calshot)	10	1008.8	0		0	bc	47	97	6	2500	St.Cu.	5	-	5	1010.2	+3	NE'E	3	c+	48	92	6	2500	St.Cu.	6	A.Cu.	9	0
Dungeness	20	1009.4	+1	SE	1	c	53	75	8	-	-	0	Cu.St.	10	1010.0	+1	E	3	c/p	52	85	7	2500	Nb.	6	A.St.	10	4
Guernsey (Fort George) P	205	1007.6	+1	-	0	bc-	49	97	8	4000	St.Cu.	6	-	6	1008.5	+1	NE	3	c+	52	85	8	1500	Cu.Nb.	3	-	3	3

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 31st October 1928

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. 9h.29. to 9h. 31st °F.	Temperature Max. 9h.-17h. 31st °F.	Rainfall† Night 17h.-9h. 30th-31st mm.	Rainfall† Day 9h.-17h. 31st mm.	Sunshine Sunrise to Sunset 31st hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	on	Rc	44	49	2	1	0.0
Douglas (I. o. M.)	cb	gbc	48	51	7	5	0.0
Llandudno	cdc	cfou	49	54	2	0.2	0.0
Colwyn Bay	coc	corro	49	53	3	2	0.0
Rhyl	rc	rcr	48	59	0.6	4	0.0
Wallasey	bcco	rcir	48	55	Trace	2	1.1
Southport	bcdc	orr	*47	54	-	13	1.8
Blackpool	orco	od	48	52	8	0.2	0.5
Ilkley	cor	or	44	50	-	2	0.0
Cleethorpes	b	bo	42	56	-	-	4.2
Skegness	bw	bbc	45	52	-	-	6.1
Aberystwyth	CPR	br	49	53	10	0.5	0.0
Bath	bbc	bccp	47	56	-	-	4.8
Cheltenham‖	bc	bccp	46	55	0.3	0.5	4.1
Leamington Spa	bc	cb	44	56	0.1	-	4.5
Lowestoft	b	b	45	57	-	-	7.7
Harwich & Dovercourt	bc	bc	46	57	-	-	8.4
Maldon	bcp	bcc	39	56	-	Trace	4.2
Southend	bcp	bcc	47	59	-	Trace	5.8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	obrq	obrq	47	52	2	3	0.0
Penzance	cir	cir	50	52	2	2	0.5
Paignton	bbcu	boup	48	57	2	Trace	5.4
Torquay	bc	bco	50	58	2	Trace	5.4
Jersey	pbc	bco	51	57	Trace	-	7.2
Weymouth	bcp	b	51	59	4	0.2	5.4
Bournemouth	cb	b	47	58	3	-	7.4
Ventnor	dbcp	pbc	49	57	0.5	7	5.2
Portsmouth (S'thsea)	bcp	bcp	50	59	1	3	5.4
Bognor	bcbr	bc	50	55	3	1	4.8
Littlehampton	cpbcp	bcpbc	50	55	1	0.6	4.4
Worthing	bccb	cbc	50	55	2	3	4.1
Brighton	cobdc	cbcc	52	56	1	Trace	4.0
Eastbourne	bc	bcbbc	50	57	2	-	7.5
Hastings‖	bccbc	bcbbc	49	56	3	-	6.9
Folkestone	cbc	bc	49	57	3	-	7.5
Dover	bc	bcbbc	51	56	2	-	7.4
Tunbridge Wells	bc	bccp	46	56	1	Trace	3.6
Ramsgate	bcb	b	48	56	0.5	-	7.8
Margate	bcb	b	47	59	1	-	7.2
Deal	b	b	47	56	3	-	7.6

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 7h. G.M.T. and, at Guernsey, the sunshine readings are from an auxiliary station. † For code see page 1. ‖ See footnote page 1.

‡ At stations marked thus the maximum temperature is for the period 31h.-17h., the minimum for the period 31h.-9h. ‖ 17h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24452 Friday, 2nd November 1928.

Observations at 13h. G.M.T. 1st. | 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	Upper Form.	Total Amt. 0-10	State of ground.	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	Sea. 0-9
Lerwick	1024.7	-2	N	3	bc	45	85	8	1500	St.Cu	7	-	7	•	1024.7	0	N	3	bcjps	43	75	8	1500	Cu.Nb	5	A.St	7	•
Stornoway	1021.2	-1	N	1	cjps	43	85	7	4000	Cu.Nb	8	-	8	•	1026.4	-1	N	1	c	40	85	7	4000	Cu.Nb	8	-	8	1
Wick	1025.7	+1	N	2	c	44	97	8	1500	Cu.Nb	6	Ci.St	8	•	1024.9	+1	NNW	2	bc	43	75	8	1500	Cu.Nb	5	-	5	1
Tiree	1025.0	-2	NE	4	b-	45	65	9	4000	Cu	1	-	1	0	1024.9	0	NE	3	c	43	65	9	2500	St.Cu	9	-	9	4
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.6	•	NE	1	c	41	85	8	2500	Cu.Nb	8	-	8	•
Aberdeen	1024.3	0	N'W	4	bc	46	65	8	2500	St.Cu	5	-	5	1	1022.8	+1	N'W	3	bcjps	41	85	8	2500	Cu.Nb	7	-	7	1
Malin Head	1025.4	0	N'E	4	bc	46	85	8	4000	Cu	3	A.Cu	5	•	1024.2	0	N	3	bc+	46	75	8	5700	St.Cu	5	A.Cu	7	;
Renfrew	1024.0	+1	NE	4	b	47	55	8	-	-	0	-	0	2	1023.6	0	NE	2	b	38	75	7	5700	St.Cu	1	-	1	•
Edinburgh (Inchkeith)	1022.2	+1	NNE	4	bc	45	55	8	-	-	0	A.St	7	•	1021.6	+1	NNE	4	bc	43	65	8	1500	St	1	A.Cu	3	2
Leuchars	1024.0	+1	NNE	2	bc	45	65	8	4000	St.Cu	6	A.Cu	7	2	1023.2	0	N	2	bc	38	85	8	4000	St.Cu	4	-	4	•
Eskdalemuir	1021.5	+1	NE'N	5	cr₀	41	75	8	2500	Nb	9	-	9	2	1021.8	0	NNE	4	bc+	38	85	7	2500	St.Cu	7	-	7	•
Tynemouth	1019.5	0	NNE	5	c/d	48	75	7	1500	Cu	9	-	9	•	1019.5	0	NNE	4	bc/r	47	75	7	1500	Cu.Nb	6	-	6	5
Blacksod Point	1023.3	+1	N	5	bc	50	55	8	*	Cu.Nb	6	-	6	•	1023.2	0	N	4	bc	47	75	8	•	Cu.Nb	5	-	5	4
Donaghadee	1022.4	+1	NE'E	4	bc	47	65	8	2500	Cu	4	-	4	•	1022.5	+1	NE'E	4	b-	46	65	8	4000	St.Cu	1	-	1	4
Birr Castle	1021.1	•	N	3	c-	47	75	8	2500	St.Cu	8	-	8	•	1021.3	•	NE	1	c	44	85	7	2500	St.Cu	9	-	9	•
Holyhead	1017.8	+1	NE'N	6	c	51	85	8	2500	St.Cu	9	-	9	1	1019.0	+2	NE	5	cjps	49	85	8	4000	St.Cu	9	-	9	4
Liverpool (Bidston)	1017.0	0	NNE	5	c-	50	75	6	2500	St.Cu	9	Ci	9	•	1018.4	+2	NE'N	4	bc-	45	75	5	800	St.Cu	3	Ci	7	•
Chester (Sealand)	1016.0	0	NE'N	4	c	51	75	6	2500	St.Cu	7	A.Cu	9	1	1017.3	+2	NE'N	4	bc-	45	85	6	1500	St.Cu	4	-	4	•
Harrogate	1017.4	0	N	4	cr	45	97	6	2500	Nb	9	A.St	10	•	1018.6	0	N	4	b-	43	85	6	2500	Nb	2	-	2	•
Spurn Head	1014.0	0	NNE	6	c	51	85	6	4000	Cu.Nb	9	-	9	•	1014.2	0	N'E	7	c	49	85	7	4000	Cu.Nb	7	A.St	10	4
Birmingham (Edgbaston)	1014.9	0	N	3	c-	49	92	5	1500	Nb	9	-	9	2	1016.0	+2	N	4	or	47	85	6	1500	Nb	10	-	10	•
Cranwell	1014.7	0	NNE	4	or₀	50	97	6	450	Nb	10	-	10	1	1015.9	+2	NNE	5	o	47	92	7	450	St	10	-	10	•
Gorleston	1011.1	0	NNE	5	c	53	85	6	4000	St.Cu	9	-	9	•	1011.3	0	N'E	6	c	53	85	7	4000	St.Cu	10	-	10	4
Valentia (Cahirciveen)	1021.1	0	NE	3	b	49	65	9	4000	Cu	2	-	2	2	1020.9	0	NE	3	b	46	75	8	1500	St	2	-	2	2
Roches Point	1018.4	0	N	3	c	49	75	8	2500	St.Cu	8	-	8	•	1019.1	+1	N	3	c	46	85	8	2500	St.Cu	8	-	8	0
Pembroke (St. Ann's H.)	1014.1	+1	NE	4	bc-	53	85	7	1500	St.Cu	5	A.Cu	7	•	1014.9	+1	NNE	3	c-	50	92	6	800	St.Cu	6	A.Cu	8	2
Ross-on-Wye	1013.6	0	NNE	4	c	51	85	6	1500	Nb	9	A.St	10	2	1014.6	+1	NE	4	o/d	49	75	5	1500	St	10	-	10	•
Leafield	1012.3	-1	NE'N	4	c	52	75	7	2500	Cu	6	A.Cu	9	0	1012.4	+1	NNE	5	c	47	92	7	1500	Cu.Nb	9	-	9	•
Winchester (Worthy Dn.)	1011.5	-1	N	3	c	52	75	7	2500	St.Cu	7	A.St	9	2	1011.7	+1	N	4	c	50	75	7	2500	St.Cu	6	A.St	9	•
S. Farnborough	1011.2	-1	NE	3	c	53	65	8	4000	Cu	3	A.Cu	9	2	1011.3	+1	N	3	c	51	85	6	2500	St	2	A.St	8	•
London (Kew Obsy.)	1011.6	-1	NNE	3	c	53	75	6	1500	St.Cu	3	A.Cu	10	1	1011.8	+1	NNE	4	c	52	75	5	1500	St.Cu	6	A.St	10	•
Croydon	1011.1	-1	NNE	4	c+	52	85	5	1500	St	6	A.St	10	2	1011.2	+1	NNE	4	mmc	51	85	4	1500	St	8	A.St	10	•
Shoeburyness	1010.9	0	NE	5	c	54	92	7	1500	St.Cu	7	A.St	9	•	1010.4	-1	NNE	5	cjps	51	85	5	1500	St.Cu	5	A.St	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.5	0	N	4	od₀	52	85	6	4000	St	10	-	10	3
Felixstowe	1010.6	-1	NNE	5	c	55	75	7	4000	St.Cu	6	A.St	9	1	1010.7	0	N'E	5	cr₀	51	85	7	1500	St	7	A.St	10	6
Lympne	1009.0	-1	N	5	c	52	85	6	2500	St.Cu	9	A.St	10	1	1008.8	0	N'W	6	crr	49	97	5	450	St	10	-	10	•
Scilly (St. Mary's)	1011.9	0	NE'E	5	c	53	85	7	4000	St.Cu	9	-	9	•	1012.9	+1	ENE	5	c	52	85	7	4000	Cu	8	-	8	6
Falmouth (Pendennis)	1011.1	0	NE	3	c-	53	85	8	4000	St.Cu	8	-	8	•	1012.6	+1	NE	4	bc-	51	85	7	4000	St.Cu	4	A.Cu	5	0
Plymouth (Cattewater)	1011.4	+1	ENE	5	c	54	75	7	4000	St.Cu	9	A.Cu	9	•	1012.7	+2	NE	4	c	52	85	7	4000	St.Cu	6	Ci.St	8	0
Portland Bill	1010.2	+1	NNE	4	c	54	75	6	1500	St.Cu	9	-	9	•	1010.9	0	N	3	c	52	85	8	2500	St.Cu	4	A.St	10	1
Southampton (Calshot)	1011.3	-1	NNE	3	c	54	75	6	4000	St.Cu	7	A.Cu	9	0	1011.3	+1	NNE	3	cr₀	52	75	7	2500	Nb	3	A.St	10	0
Dungeness	1009.2	-2	ENE	4	c/d	54	85	7	1500	St.Cu	7	~~A.St~~ A.Cu	10	•	1008.5	-1	NE	4	or₀r₀	51	92	6	~~2500~~ 800	Nb	10	-	10	3
Guernsey (Fort George)	1009.8	0	NE	3	cjp	53	85	8	2500	St.Cu	9	-	9	•	1010.2	+1	ENE	5	cr₀r₀	52	85	7	1500	Nb	6	A.St	10	4

LONDON OBSERVATIONS. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 8h-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. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
(24 Hours ended 9h.)													
Kew	18	cmw	cm₀	cmr₀c	55	43	42	-	-	0.8	•	•	6
Croydon	244	cffmz₀	cz₀m	cmfr₀m	53	43	41	-	1	0.0	•	•	5
Greenwich (Royal Obsy.)	149	c	c	cdpc	54	43	40	-	0.2	0.0	66	79	5
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.3	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	55	44	42	-	-	0.3	71	80	•
Regent's Pk. (Botanic Gdns).	169	•	•	•	•	•	•	•	•	0.8	•	•	•
Camden Square	110	c	c	•	53	43	•	-	-	•	•	81	•
Kensington Palace	80	bcc	bcc	•	55	43	42	-	-	•	(At 18h) 86	75	•
Hampstead Observatory	450	•	•	•	53	39	36	-	-	1.0	•	86	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.8	8h 1st	<0.3	4h 2nd

Kew Observatory Max.	Time.	Min.	Time.
0.3	9h 1st	<0.1	2h 2nd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 1st 17 h 30 m. to 2nd 6 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12.30	NIL	-
δ Ursae Minoris	12.30	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 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 and 3rd November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.53	11.37	16.20
	6.55	11.37	16.18
Greenwich	6.57	11.44	16.30
	6.59	11.44	16.28
Wick	7.32	11.56	16.19
	7.35	11.56	16.17
Valentia	7.39	12.25	17.10
	7.41	12.25	17.08

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 tounder.
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.

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

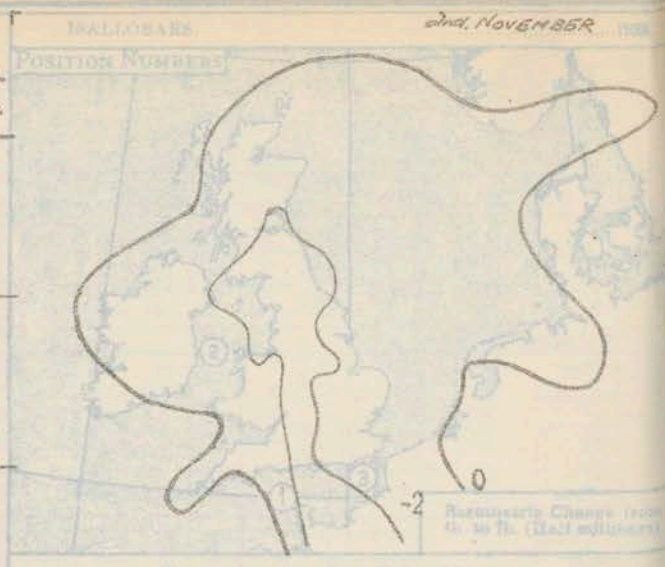
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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.	Weather. 13h.-18h.	Weather. 18h. to 18h.	Weather. 18h.-7h.	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 Sec. Hours.
Lerwick	bcy	bcpr	cpr	cpr	45	40	•	Tr.	16.30	1	<21.00	3.5
Stornoway	p	cpr	c	c	44	36	•	0.3	11.00	-	-	1.0
Wick	cprc	cprbc	c	prpr	45	41	•	0.5	11.00	1	24.00	•
Tiree	bc	bc	bcb	bc	47	40	33	-	-	-	-	6.2
Nairn	cbc	bcc	cpr	cq	43	39	•	-	-	0.2	<21.00	0.2
Aberdeen	cjpcbc	bebbcpq	bcpr	bcprh	47	39	34	0.1	16.30	1	<21.00	4.1
Malin Head	bc	bbc	bcc	cv	47	43	•	-	-	-	-	4.8
Renfrew	by	byb	bbx	bbcx	47	29	22	-	-	-	-	7.0
Edinburgh (Inchkeith)	bbc	bbc	bbc	bbc	46	39	38	-	-	-	-	2.5
Leuchars	bwcbbc	cbbc	bcbw	bwbc	46	38	32	-	-	-	-	3.3
Eskdalemuir	bccpr	cpr bc	bccprc	ccpr	43	36	-	0.5	9.00	1	<21.00	2.0
Tynemouth	oiq	bcpq	bcq	bcpq	40	45	40	0.4	<8.00	1	5.30	•
Blacksod Point ...	pc	cbc	c	pc	50	43	•	Tr.	•	0.3	•	•
Donaghadee	bc	bcb	bbc	bbc	50	44	•	-	-	-	-	•
Birr Castle	c	c	cbcx	bx	48	28	14	-	-	-	-	2.4
Holyhead	c	prc	cbcc	c	51	46	44	Tr.	14.30	-	-	0.0
Liverpool (Bidston) ...	cm	cmz	bmw	bw	50	40	35	-	-	-	-	0.4
Chester (Sealand) ...	cm	czbc	bbcm	bcc	53	37	32	-	-	-	-	0.7
Harrogate	coir	ocirbcb	bbc	bbcp	47	37	34	1	11.00	0.3	5.30	0.0
Spurn Head	cpr	c	bcqpr	cpc	52	44	•	Tr.	11.00	1	<21.00	0.1
Birmingham (Edgbaston)	forpr	car	orbc	bc	49	35	32	3	<8.00	Tr	<21.00	0.0
Cranwell	cir	cpcc	bc	bccpbc	53	36	34	0.2	9.00	0.2	2.30	0.3
Gorleston	cq	cq	corq	cq	54	49	47	-	-	0.1	<21.00	0.0
Valentia (Cahirciveen)	bcbv	bbcv	b	b	50	37	33	-	-	-	-	8.2
Roches Point	c	c	cbc	bc	50	38	•	-	-	-	-	•
Pembroke (St. Ann's H.)	c	cpm	bc	bc	53	37	•	Tr.	15.30	-	-	1.4
Ross-on-Wye	odomc	adcbcod	ogcq	bcbbc	52	37	32	0.2	9.00	-	-	0.0
Leafield	omc	cp	cdbc	bcw	53	35	32	Tr.	13.30	Tr	<21.00	0.4
Winchester (Worthy Dn.)	ctefedc	c	c	c	54	40	37	-	-	-	-	0.5
S. Farnborough ...	ctc	c	cm	c	53	42	41	-	-	-	-	0.8
London (Kew Obsy.) ...	cmw	cm	cm	c	55	43	42	-	-	-	-	0.8
Croydon	cffmz	czm	cmrm	crrm	53	43	41	-	-	1	22.00	0.0
Shoeburyness	circ	opr	orm	orm	55	43	42	0.3	9.00	7	<21.00	0.0
Clacton-on-Sea ...	cbc	bcbgd	ogdr	ogr	55	44	43	0.4	16.30	4	<21.00	0.0
Felixstowe	cz	cir	crr	corr	55	45	44	Tr.	13.30	1	<21.00	0.0
Lympne	crcm	cmorrm	orrm	orrm	52	44	43	3	<8.00	17	<21.00	0.0
Scilly (St. Mary's) ...	cpbc	bcc	bccp	cPbc	54	47	•	0.1	<8.00	2	<21.00	2.4
Falmouth (Pendennis)	c	cbc	bcc	bbc	54	43	•	-	-	-	-	0.6
Plymouth (Cattewater)	bcc	cbc	bcco	bbcq	55	42	40	-	-	-	-	1.3
Portland Bill	cz	c	cbcc	c	55	42	•	-	-	-	-	•
Southampton (Calshot)	cm	cm	cirq	c	54	42	42	Tr.	17.30	Tr	<21.00	0.1
Dungeness	cdac	cidorr	crrr	orrr	54	45	•	1	12.30	22	<21.00	•
Guernsey	crrbcc	crrq	crrq	cirq	57	48	•	2	<8.00	4	<21.00	2.8



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
2	10h 1st	Cambria	NEN	7	C	49	50	7
1	12h -	St. Helier	ENE	6	C+	56	58	7

GENERAL INFERENCE.

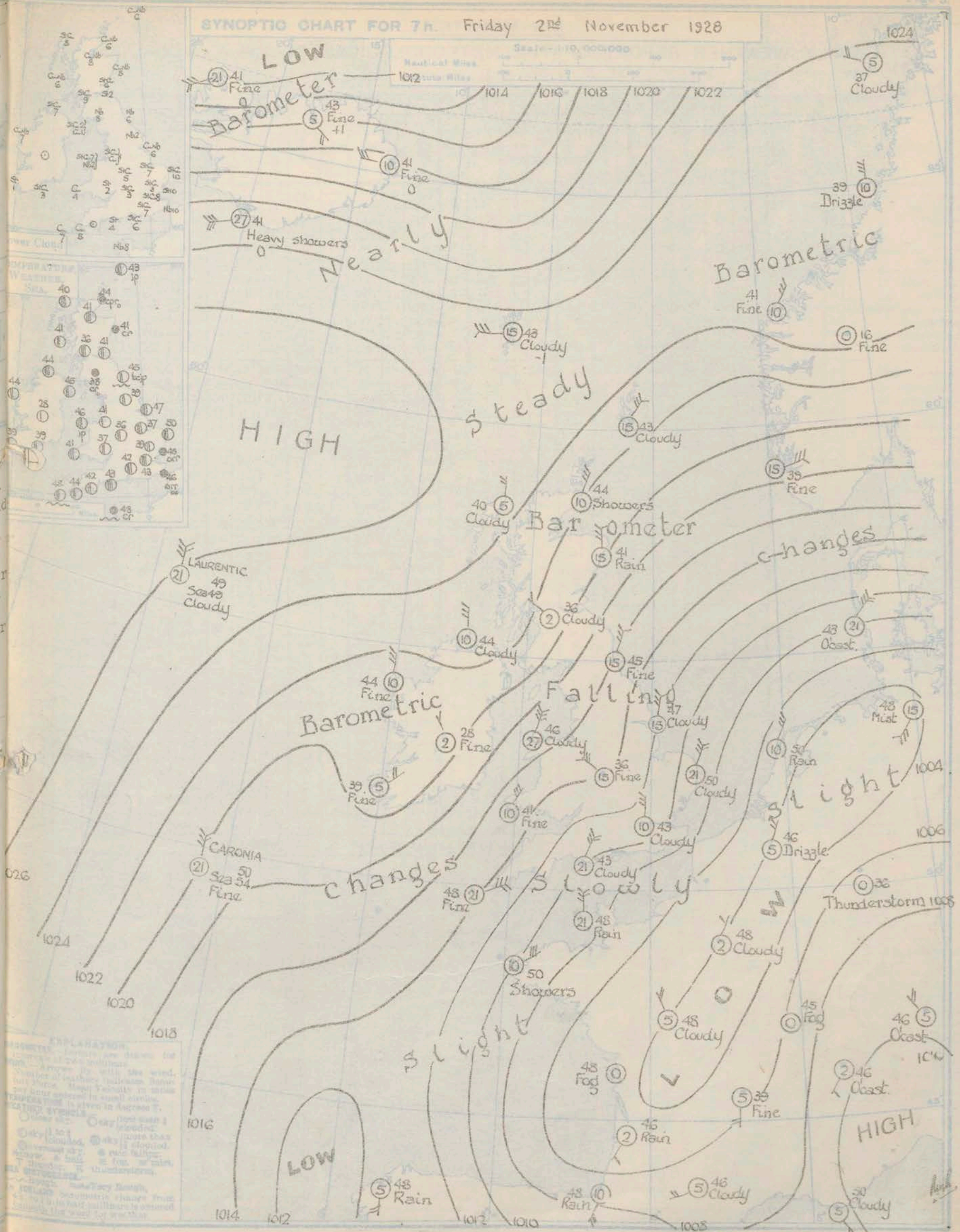
An anticyclone is centred off northwest Scotland while depressions are centred over France and Germany. Winds will continue northeasterly and weather mainly cloudy with occasional rain over the Midlands, Eastern and Southern England. Further west and north bright periods will occur. Temperature will continue low for the time of year.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 2nd November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate to fresh N. to N.E. wind; cloudy, occasional rain; temperature rather low.	Cloudy weather and rather cold.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate N. to N.E. winds; cloudy, bright intervals; moderate temperature, ground frost at night.	
10. N.E. England 11. S.E. Scotland	Light to moderate N. to N.E. wind; cloudy, local showers; moderate temperature, ground frost at night.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland 13. B. N.W. Scotland	Light northerly wind; fair; moderate day temperature, frost at night inland.	
14. Moray Firth 15. N.E. Scotland 16. Orkneys and Shetlands	As 10 - 11.	
17. S.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light to moderate N. to N.E. wind; fair; moderate day temperature, frost at night inland.	

R.E.R.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0915 G.M.T. G. C. Simpson, F.R.S., Director.

† Trace = rain less than 0.1 mm. Tr. = rain less than half an hour.


SYNOPTIC CHART FOR 7 h. Friday 2nd November 1928
LOW
Barometer
Nearly
Steady
HIGH
Barometric
Bar ometer
changes
Falling
Barometric
changes
Slowly
Slight
Slight
LOW
LOW
HIGH
LAURENTIC
CARONIA
1024
1022
1020
1018
1016
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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Friday, 2nd November 1928. No. 307.

Observations at 1h. G.M.T. 2nd / Observations at 7h. G.M.T. 2nd

Stations	Height above M.S.L. in feet	1h Barom. at M.S.L. mb.	1h Change in 3 Hours	1h Wind Direc.	1h Wind Force 0-12	1h Weather	1h Temp. °F.	1h Humidity %	1h Visibility 0-9	1h Low Cloud Height Feet	1h Low Cloud Form	1h Low Cloud Amt. 0-10	1h Upper Form	1h 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 0-9	7h Low Cloud Height Feet	7h Low Cloud Form	7h Low Cloud Amt. 0-10	7h Upper Form	7h Total Amt. 0-10	Sea 0-9
Lerwick	84	1023.8	-1	NNE	4	c	44	65	8	1500	StCu	8	-	8	1023.0	0	NE	4	cjp	43	75	8	1500	CuNb	6	A-St	9	*
Stornoway	30	1025.3	-2	NE	1	c	*	*	7	*	*	*	*	8	1024.1	0	N	2	c	40	85	7	4000	StCu	8	-	8	2
Wick	81	1023.6	-3	N	3	bc	43	75	8	1500	CuNb	4	A-St	7	1022.0	-1	NNE	3	c/pG	44	75	8	1500	CuNb	6	A-St	8	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.5	0	E'S	3	bcv+	41	75	9	2500	CuNb	6	-	6	1
Nairn	39	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	*	N	3	c	41	85	8	2500	CuNb	8	-	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.1	-1	N	4	cr	41	85	7	2500	CuNb	8	-	8	1
Malin Head	51	1023.3	-2	N	3	c	45	75	8	5700	StCu	5	ACu	9	1021.8	-1	N	3	cv	44	85	9	5700	StCu	7	A-Cu	8	1
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.5	-1	NW	1	c+	36	85	7	2500	StCu	9	-	9	*
Edinburgh (Inchkeith)	100	1020.5	-2	NNE	3	bcv	40	75	9	4000	Cu	2	ACu	4	1018.1	-2	NNE	4	bc	41	75	8	1500	St	2	ACu	7	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.2	-2	N	3	bc+	39	85	8	4000	StCu	6	ACu	7	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.9	-3	N'E	5	cf0	38	85	8	1500	Nb	8	-	8	*
Tynemouth	87	1019.0	-1	N	4	bc	46	65	8	1500	Cu	5	-	5	1015.0	-3	NNE	4	bcjp	45	85	7	1500	Nb	6	-	6	6
Blacksod Point	18	1023.3	0	-	0	bc	45	65	8	*	StCu	7	-	7	1020.7	-1	N	3	bc	44	75	8	*	CuNb	7	-	7	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.0	-2	NE	4	bc+	45	55	8	4000	StCu	3	-	3	3
Birr Castle	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.3	*	NNW	1	b-	28	92	6	-	-	0	ACu	2	*
Holyhead	26	1018.2	-1	NNE	5	cD	47	85	8	2500	StCu	8	CiSt	9	1016.4	-2	NE	6	cjp	46	75	8	2500	StCu	9	-	9	4
Liverpool (Bidston)	182	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.0	-2	N'E	4	b	41	75	8	4000	StCu	1	-	1	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.2	-2	NNW	4	bc	40	85	7	4000	StCu	4	-	4	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.3	-1	N	4	bc	39	85	7	4000	Nb	2	ACu	3	
Spurn Head	39	1012.9	-1	NE'N	6	bc	46	65	7	4000	CuNb	7	-	7	1011.0	-1	N'E	4	c	47	75	7	4000	CuNb	6	A.St	8	4
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.0	-2	NW	4	bc	36	92	5	4000	StCu	5	-	5	*
Cranwell	236	1015.3	-1	NNW	3	bc-	40	92	7	2500	Cu	1	Ci	4	1013.3	-2	NW'N	3	c+	37	97	6	2500	StCu	7	CiSt	9	*
Gorleston	14	1009.5	-2	NNE	6	c	50	92	7	2500	StCu	10	-	10	1008.7	-1	N'E	5	c	50	85	6	4000	StCu	10	-	10	1
Valentia (Cahirciveen) P	30	1021.3	0	NE	3	bv-	43	92	9	-	-	0	-	0	1020.4	+1	NE'E	2	b	39	75	8	2500	St	1	CiCu	2	0
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.5	0	NNE	3	bc	39	85	8	2500	StCu	3	-	3	0
Pembroke (St. Ann's H.)	150	1016.1	+1	NNE	3	bc	44	85	7	2500	Cu	3	ACu	5	1015.1	0	NE	3	bc	41	85	7	1500	Cu	4	CiSt	6	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.7	-2	N	3	bc	37	85	7	2500	St	2	Ci	4	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.2	-2	N	4	bc	35	92	7	4000	StCu	3	CiSt	5	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.3	-2	N'W	4	c	40	85	8	5700	StCu	6	ASt	10	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.4	-1	NNE	3	c	42	85	8	4000	StCu	7	ASt	10	*
London (Kew Obsy.)	18	*	*	*	*	*	48	*	*	*	*	*	*	*	1010.4	-1	N	3	c	43	75	7	2500	StCu	8	ASt	10	*
Croydon	244	1011.3	-1	NNE	4	cr0f0	47	75	8	1500	St	5	ASt	10	1010.0	-1	NNE	4	c/r	43	85	6	2500	St	5	A-St	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	-1	N	4	or0f0	46	92	6	2500	Nb	10	-	10	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.5	-1	N	4	orr	45	92	6	4000	St	10	-	10	2
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	-1	N	4	of0	46	85	7	800	St	10	-	10	3
Lympne	350	1008.2	-1	N'W	6	orr	47	92	5	800	Nb	10	-	10	1006.9	-1	N'W	6	of0	45	92	6	450	St	10	-	10	*
Scilly (St. Mary's)	163	1013.9	0	ENE	5	c/PR+	51	85	7	4000	CuNb	10	-	10	1013.5	-1	ENE	5	bc	48	75	7	4000	Cu	7	-	7	6
Falmouth (Pendennis)	200	1013.4	0	NE	3	c	45	85	7	4000	StCu	9	-	9	1013.2	+1	NNE	3	bc	44	75	7	4000	Cu	5	ASt	6	1
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.6	0	NNE	5	bc	42	85	7	-	-	0	Ci	5	0
Portland Bill	32	1010.9	0	NNE	5	c	49	85	8	1500	St	7	ASt	10	1009.7	-1	NNE	5	c	43	85	8	1500	St	4	ASt	10	1
Southampton (Calshot)	10	1011.6	-1	NNE	4	c/r	48	85	7	1500	Nb	4	ASt	9	1010.0	-2	N	4	c	43	75	7	2500	StCu	6	ASt	10	0
Dungeness	20	1007.3	-3	NNE	5	or0f0	49	85	7	1500	Nb	10	-	10	1007.0	-1	N	4	of0r0	46	92	7	2500	Nb	10	-	10	5
Guernsey (Fort George) P	295	1009.8	0	NNE	4	orr	51	92	5	1500	Nb	10	- -	10	1009.8	0	N	5	cr	48	85	8	1500	Nb	8	A St	10	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 1st NOVEMBER 1928

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 1/11/28 to 9h. 2/11/28 (4) °F.	Temperature Max. 9h.-17h. 1/11/28 (5) °F.	Rainfall Night 17h.-9h. 31/10-1/11 (6) mm.	Rainfall Day 9h.-17h. 1/11 (7) mm.	Sunshine Sunrise to Sunset 1/11 (8) hr.
Berwick-on-Tweed	c	cfbc	46	47	-	0.5	3.2
Douglas (I. o. M.)	cbc	cbc	45	49	-	-	3.6
Llandudno	bcc	c	50	51	3	0.1	0.0
Colwyn Bay	oco	oco	49	51	6	-	0.0
Rhyl	c	c	49	57	7	-	0.1
Wallasey	ocbc	cbcb	48	52	3	-	0.3
Southport	ocbcb	bbcb	48	51	7	-	2.1
Blackpool	oc	cbc	47	50	-	-	3.2
Ilkley	or	oro	46	48	8	2	0.0
Cleethorpes	o	o	48	51	-	-	0.0
Skegness	bcw	bccbro	44	56	trace	trace	4.5
Aberystwyth	bc	coz	48	52	0.5	-	0.2
Bath	cbo	bccq	38	54	-	trace	0.6
Cheltenham‡	oco	ocb	40	54	trace	-	1.0
Leamington Spa	cd	cd	42	53	-	0.2	0.0
Lowestoft	c	cbrc	48	53	-	trace	0.0
Harwich & Dovercourt	bc	rbc	46	54	-	0.2	0.0
Maldon	c	c	43	54	-	-	0.0
Southend	oc	or	45	54	-	trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	Observations not taken						
Penzance	cbc	cbc	49	56	4	-	2.6
Paignton	cwz	cbcm	45	54	-	trace	1.0
Torquay	co	om	47	55	-	-	1.2
Jersey	bc	co	45	57	-	1	1.7
Weymouth	cb	bc	44	55	trace	-	1.0
Bournemouth	moc	o	44	52	0.5	-	0.8
Ventnor	po	opor	48	52	trace	trace	0.0
Portsmouth (S'thsea)	o	o	44	54	-	-	0.0
Bognor	cbcc	roc	47	53	-	0.5	0.3
Littlehampton	c	cor	47	53	-	0.1	0.0
Worthing	cid	cdo	45	53	0.3	trace	0.0
Brighton	bccoc	odod	48	53	3	trace	0.3
Eastbourne§	moro	oiro	46	55	0.1	0.3	0.0
Hastings‖	odo	odd	47	55	0.4	1	0.0
Folkestone	omo	orrm	48	55	-	4	0.0
Dover	o	or	48	55	-	8	0.0
Tunbridge Wells	o	o	45	53	0.5	-	0.0
Ramsgate	co	or	51	55	-	5	0.0
Margate	c	cr	47	56	-	2	0.0
Deal	cdo	orod	45	56	-	4	0.0

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* Information not usually received. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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. ‖ 21h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24453 Saturday 3rd November, 1928.

Observations at 13h. G.M.T. 2nd

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	1020.7	-4	NE	3	c	45	65	8	1500	St.Cu	5	A.St	10	•	
Stornoway	1022.5	-3	NNE	3	bc-	44	75	8	4000	Cu Nb	5	-	5	•	2
Wick	1020.4	-2	NNE	3	c/pr	43	92	8	1500	Nb	7	A.St	10	•	4
Tiree	1020.2	-2	NE	4	c	46	65	9	4000	Cu	8	-	8	0	3
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•	
Aberdeen	1018.5	-3	NNE	3	c/p	46	75	8	2500	St.Cu	8	-	8	2	1
Malin Head	1019.9	-1	NE	4	bc	46	85	9	4000	Cu	5	-	5	•	
Renfrew	1017.8	-3	NE	4	bc-	45	65	9	4000	St.Cu	6	-	6	2	
Edinburgh (Inchkeith)	1015.6	-3	NNE	5	c	45	65	8	2500	St	8	A.Cu	9	•	3
Leuchars	1017.6	-1	N	3	bc-	47	65	8	4000	St.Cu	3	A.Cu	4	1	
Eskdalemuir	1014.9	-3	NNE	6	c/pr	43	85	8	1500	Nb	8	-	8	2	
Tynemouth	1014.3	0	ENE	3	or	48	85	7	1500	Nb	10	-	10	•	4
Blacksod Point	1018.5	-2	NE	2	bc	45	85	9	*	Cu Nb	7	-	7	•	
Donaghadee	1017.9	-3	NE	5	c/pr	46	75	8	2500	Cu Nb	8	-	8	•	4
Birr Castle	1017.2	•	N	3	bc+	45	75	7	2500	Cu	2	Ci.Cu	3	•	
Holyhead ...75	1013.2	-5	N'E	6	bc/pr	47	~~55~~	7	1500	St.Cu	7	-	7	•	3
Liverpool (Bidston)	1012.5	-4	NNW	3	c	44	85	8	2500	Nb	9	Ci	9	•	
Chester (Sealand)	1011.9	-4	N'W	4	bc/pr	46	75	6	1500	St	7	-	7	1	
Harrogate	1011.5	-1	NE	3	c	47	85	7	2500	Nb	9	A.St	10	•	
Spurn Head	1009.4	-1	NE	4	crr	49	92	7	4000	Nb	9	-	9	•	
Birmingham (Edgbaston)	1010.9	-3	NNW	4	mmc	43	75	4	2500	St	9	-	9	2	
Cranwell	1011.0	-2	NNW	3	or	45	97	6	1500	St	10	-	10	1	
Gorleston	1006.9	-2	NNE	4	or	52	92	6	2500	Nb	10	-	10	•	
Valentia (Cahirciveen)	1018.1	-4	NE'E	3	c	45	55	8	2500	St.Cu	9	-	9	5	
Roches Point	1016.7	-3	NNE	3	c	45	65	8	4000	St.Cu	8	-	8	•	
Pembroke (St. Ann's H.)	1012.4	-2	NE	3	bc	48	75	8	1500	Cu	4	A.Cu	6	•	
Ross-on-Wye	1010.8	-3	NNE	4	c	45	65	8	4000	St.Cu	8	Ci	8	2	
Lesfield	1009.8	-2	N	4	bc⊕	43	75	7	4000	Cu	2	A.Cu	6	0	
Winchester (Worthy Dn.)	1008.8	-3	NNW	4	c⊕	45	75	7	5700	St.Cu	5	Ci.St	9	1	
S. Farnborough	1009.0	-2	N'W	3	c/r	46	75	7	1500	Nb	2	A.St	10	1	
London (Kew Obsy.)	1008.6	-2	N	3	c	47	75	7	1500	St	1	A.Cu	10	1	
Croydon	1008.6	-2	N'E	3	mmc	47	75	4	2500	St	10	-	10	2	
Shoeburyness	1007.1	-1	N	4	c	49	85	8	-	-	0	A.St	10	•	
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•	
Felixstowe	1007.0	-1	N'E	4	c	53	85	7	1500	St.Cu	9	A.St	10	1	
Lympne	1006.2	0	N'W	4	or	46	92	6	800	Nb	10	-	10	2	
Scilly (St. Mary's)	1013.0	-1	NE	5	bc-	48 ~~47~~	65	8	4000	Cu	5	-	5	•	
Falmouth (Pendennis)	1011.7	-2	NE	4	bc+	46	65	8	4000	Cu	6	-	6	•	
Plymouth (Cattewater)	1009	-3	NNE	4	bc	46	75	7	4000	Cu	6	-	6	1	
Portland Bill	1008.1	-2	N	5	c	45	75	6	2500	St.Cu	3	Ci	8	•	
Southampton (Calshot)	1009.1	-2	N	4	c	46	75	6	2500	St	7	A.St	9	0	
Dungeness	1005.8	-2	NNE	4	orr	46	92	7	1500	Nb	10	-	10	•	
Guernsey (Fort George)	1008.9	-2	N'W	4	c	47	85	7	1500	St.Cu	10	-	10	•	

Observations at 18h. G.M.T. 2nd

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	1018.9	-2	NE	3	c	45	65	8	1500	Cu	5	A.St	8	•
Stornoway	1020.8	-2	NNE	2	b-	38	92	7	4000	Cu	2	-	2	2
Wick	1018.8	-2	N	3	c/pr	44	97	8	1500	Nb	6	A.St	8	4
Tiree	1018.9	-2	NE	4	bc	45	65	9	4000	Cu	7	-	7	3
Nairn	1018.0	•	N'E	3	c/r	43	85	8	1500	Cu Nb	8	-	8	•
Aberdeen	1017.0	-1	N	3	c	42	75	8	2500	Cu	9	-	9	1
Malin Head	1018.2	-1	N'E	4	bc	46	85	9	5700	St.Cu	3	A.Cu	3	3
Renfrew	1017.0	0	NE	3	bc+	41	75	7	4000	St.Cu	6	-	6	•
Edinburgh (Inchkeith)	1015.7	0	NNE	5	c	44	75	8	1500	St	8	-	8	3
Leuchars	1016.4	-2	N	2	b-	37	85	8	4000	St.Cu	1	-	1	•
Eskdalemuir	1015.0	0	NNE	4	b-	35	85	7	2500	St.Cu	2	-	2	•
Tynemouth	1014.2	0	ENE	2	bc/r	47	85	7	1500	Cu	7	-	7	4
Blacksod Point	1017.6	-1	ENE	4	c	47	65	8	•	Cu Nb	8	-	8	4
Donaghadee	1017.0	-1	NE	5	c/pr	47	65	8	2500	Nb	8	-	8	4
Birr Castle	1015.5	•	N	2	bc+	41	75	7	2500	St.Cu	3	A.Cu	5	•
Holyhead	1011.9	0	NE	3	bc	48	85	6	1500	St.Cu	7	-	7	3
Liverpool (Bidston)	1011.6	-1	N	3	odd	45	97	5	800	St	10	-	10	•
Chester (Sealand)	1011.1	0	N'W	2	or	45	97	5	800	St	10	-	10	•
Harrogate	1012.5	0	N	3	c	44	85	6	4000	Nb	9	-	9	•
Spurn Head	1009.6	0	NE'N	5	bc-	47	75	7	4000	Cu Nb	6	-	6	4
Birmingham (Edgbaston)	1010.5	0	NW	2	or-	43	97	3	800	Nb	10	-	10	•
Cranwell	1010.3	-1	NE	4	c/r	46	97	6	800	St	10	-	10	•
Gorleston	1007.1	0	NNE	4	or	50	92	7	1500	Nb	10	-	10	1
Valentia (Cahirciveen)	1016.7	-1	NE	1	bc	42	75	8	2500	St.Cu	7	-	7	0
Roches Point	1015.6	0	NNE	3	b	42	85	8	4000	St.Cu	2	-	2	0
Pembroke (St. Ann's H.)	1011.2	0	NE	3	bc	43	85	8	1500	Cu	4	A.Cu	6	1
Ross-on-Wye	1009.9	-1	N	2	c+	44	85	6	1500	St	7	A.St	10	•
Lesfield	1009.1	-1	N'W	3	od	42	92	7	1500	St	10	-	10	•
Winchester (Worthy Dn.)	1008.8	0	NW'N	3	c	45	85	6	4000	St	8	A.St	10	•
S. Farnborough	1008.5	0	NW	1	c	45	85	6	2500	St.Cu	5	A.St	10	•
London (Kew Obsy.)	1007.9	0	N	2	o	48	85	5	1500	St	10	-	10	•
Croydon	1007.3	0	N'W	2	or	47	92	4	1500	St	10	-	10	•
Shoeburyness	1007.2	0	NNE	3	crr	49	97	5	1500	Cu Nb	7	A.St	10	•
Clacton-on-Sea	1007.1	+1	N	3	orr	49	97	6	4000	St	10	-	10	3
Felixstowe	1007.8	+2	NNE	3	orr	48	97	6	1500	Nb	10	-	10	3
Lympne	1006.2	0	N	3	or	48	92	5	800	Nb	10	-	10	•
Scilly (St. Mary's)	1012.7	0	NE'N	4	bc/pr	46	75	8	4000	Cu	7	-	7	5
Falmouth (Pendennis)	1010.7	0	NE	2	c	45	65	7	4000	St.Cu	8	-	8	1
Plymouth (Cattewater)	1010.9	0	NNW	3	bc	44	75	7	4000	St.Cu	7	-	7	0
Portland Bill	1008.1	+1	N	4	o	46	75	6	2500	St	10	-	10	1
Southampton (Calshot)	1008.7	+1	N'W	3	c/r	46	75	6	2500	St	8	A.St	10	0
Dungeness	1005.8	0	NNE	1	orr	48	92	7	1500	Nb	10	-	10	1
Guernsey (Fort George)	1008.9	0	N	3	c⊕	47	85	7	1500	Nb	7	A.St	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. (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.)	Visibility 9h.
Kew	18	cpc	com	ocbc	48	41	37	Tr.	-	0.0	*	*	5
Croydon	244	cirmz	czfr	omfbr	47	42	37	Tr.	Tr.	0.0	*	*	3
Greenwich (Royal Obsy.)	140	cpd	cd	cdscw	49	40	32	~~Tr.~~ 0.3	Tr.	0.0	82	96	4
City (Bunhill Row)	80	*	*	*	*	*	*		*	0.0	*	*	•
Westminster (St. James' Pk.)	27	*	*	*	50	42	38	-	-	0.0	82	84	•
Regent's Pk. (Botanic Gdns).	165	*	*	*	*	*	*	*	*	0.0	*	*	•
Camden Square	110	oc	co	*	47	41	*	-	-	*	*	91	•
Kensington Palace	80	co	co	*	47	41	37	-	-	*	(At 18h. 92.)	84	•
Hampstead Observatory	450	*	*	*	49	37	32	Tr.	Tr.	0.0	*	79	•

Atmospheric Pollution

Milligrams of Solid Imparity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	0.6	20h 2m	<0.3	4h 3m
Kew Observatory	0.3	20h 12m	<0.1	3h. 3m

Pole Star Record at Greenwich Obsy.

Exposure from 2nd 17 h. 30 m. to 3rd 06 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	12.30	1.40	13
δ Ursae Minoris	12.30	1.03	8

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 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.

3rd-4th November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.53	11.37	16.18
	6.56	11.37	16.16
Greenwich	6.59	11.44	16.29
	7.0	11.44	16.26
Wick	7.35	11.55	16.17
	7.37	11.56	16.14
Valentia	7.41	12.25	17.9
	7.42	12.26	17.5

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. t 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.
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.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

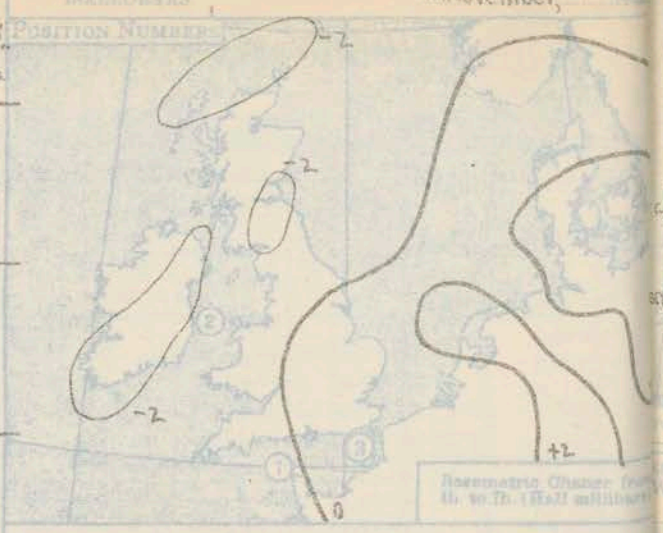
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 2nd	13h.–18h. 2nd	18h. 2nd to 1h. 3rd	1h.–7h. 3rd	Temperature. Max. Day 7h.–18h.	Min. Night 18h.–7h.	Min on Grass	Rainfall. Day 7h.–18h. mm.	began.	Night 18h.–7h. mm.	began.	Sun 2nd Hours.
Lerwick	c	c	bc	bcpr	46	42	•	Tr.	<8.00	0.3	3.30	0.2
Stornoway	c	bcprb	c	p	44	38	•	1	15.30	3	2.30	2.0
Wick	cpr	cpr	cprbc	bbc	45	42	•	3	<8.00	0.2	<21.00	•
Tiree	bcc	bcc	bc	bcco	47	43	35	-	-	-	-	4.8
Nairn	cprq	cPR	cPR	prc	45	40	•	2	<8.00	6	<21.00	0.3
Aberdeen	bccprc	cpr.c	cbcc	coir	46	39	36	0.5	<8.00	2	24.00	0.6
Malin Head	cbcv	bcv	bc	bcc	46	44	•	-	-	-	-	6.2
Renfrew	cbc	bbc	bcb	bbcxrm	46	31	25	-	-	0.2	6.30	0.8
Edinburgh (Inchkeith)	bcc	c	cbcprc	corr	46	39	34	-	-	3	22.00	0.6
Lauchars	bcc	bcbcb	bbcpr	bcrrr.	47	35	29	-	-	3	22.00	2.3
Eskdalemuir	cpr.	cp.cb	bbcpr.bc	bccprcr.	44	34	31	1	<8.00	1	22.00	0.8
Tynemouth	cirq	cir.	bcoir	or.r.	48	39	38	3	<8.00	3	24.00	•
Blackwod Point ...	p.c	c	c	p.c	48	40	•	Tr.	•	1	•	•
Donaghadee	bcc	cpr.	bccbc	bc	48	42	•	0.3	12.30	-	-	•
Stirr Castle	bbc	bc	bccir	cm.	46	34	26	-	-	1	<21.00	5.3
Holyhead	prhcpr	PRH	irr.r.c	c,r.	49	43	41	3	<8.00	2	<21.00	1.4
Liverpool (Bidston) ...	bbcc	cod.d	od.bm	bmm.	46	38	31	1	14.30	0.1	<21.00	3.6
Chester (Sealand) ...	bcm.z	bccmprr.	cr.	bcmx	47	37	29	1	12.30	Tr.	<21.00	3.2
Harrogate	bccir.	cir.	cbcb	bx	48	34	30	0.2	<8.00	-	-	2.1
Spurn Head	cpr	cpr	cpr	cprbc	51	41	•	1	11.00	1	<21.00	0.0
Birmingham (Edgbaston)	bccm	cor.rf	forem	cm	44	38	36	2	15.30	2	<21.00	0.6
Cranwell	cpc	cir.c	c	cb	48	33	30	2	<8.00	-	-	0.5
Gorleston	cgor.q	orq	obcc	cbc	53	42	39	4	11.00	0.3	<21.00	0.0
Valentia (Cahirciveen)	bbccy	cyc	bc	bacw	47	36	29	-	-	0.2	-	3.6
Roches Point	bcc	cbcb	bbcc	cp.c	47	40	•	-	-	Tr.	3.30	•
Pembroke (St. Ann's H.)	bcp.	bc	bc	cbc	50	40	•	Tr.	11.00	-	-	6.8
Ross-on-Wye	cbcc	bcc	circ	oc	46	40	35	-	-	3	<21.00	2.9
Leafield	bc	c	cirrr	orc	43	37	33	Tr.	17.30	3	<21.00	3.7
Winchester (Worthy Dn.)	c	ccm.	cm.d.c	c	46	42	37	-	-	Tr.	<21.00	0.1
S. Farnborough ...	cir.	c	cir.	c	47	41	38	Tr.	11.00	Tr.	<21.00	0.0
London (Kew Obsy.) ...	cp.c	com.	o	cbc	48	41	37	Tr.	9.00	-	-	0.0
Croydon	cir.m.z	czf r.	omr.r.cm.	cbcm.	47	42	37	Tr.	9.00	Tr.	<21.00	0.0
Shoeburyness	or.rc	oor	or.m.	c	49	42	41	0.6	<8.00	4	<21.00	0.0
Clacton-on-Sea ...	agrc	coarr	agrr	agrc	52	43	44	2	15.30	3	<21.00	0.0
Felixstowe	circ	crrm.	crrm.	c	53	41	40	3	<8.00	2	<21.00	~~0.0~~ 0.1
Lympne	or.r.m.	or.r.cm.	or.r.m.	or.r.m.	48	44	44	1	<8.00	5	<21.00	0.0
Scilly (St. Mary's) ...	bc	bcp.	bcp	cbc	50	43	•	Tr.	16.30	2	<21.00	4.5
Falmouth (Pendennis)	bc	c	cbc	cbcp.	48	41	•	-	-	0.1	4.30	5.0
Plymouth (Cattewater)	bbcq	bcy	bcb	bxom.	49	34	28	-	-	-	-	3.7
Portland Bill	cz.	coz.	or.cm	or.orr	47	44	•	-	-	4	22.00	•
Southampton (Calshot)	cr.r.m.	cr.m.	cm.	cm.c.cr.	47	45	44	0.6	9.00	Tr.	6.30	0.0
Dungeness	orr	crrorr	or.r	orr r.	49	47	•	5	<8.00	6	<21.00	•
Guernsey	cirrrq	cir.r.	cor.c	c	48	45	•	0.5	<8.00	3	<21.00	0.0

3rd November,



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	2nd 10h.	"CAMBRIA"	NE	6	C+	47	55
3	3rd 2h.	"DIEPPE"	NE	4	r	53	56

GENERAL INFERENCE.

Pressure continues high to the north and west of the British Isles while a belt of low pressure with several centres extending from the Bay of Biscay to north Germany is spreading northwestwards. Northerly winds with cold, mainly cloudy weather and occasional rain are probable in most districts.

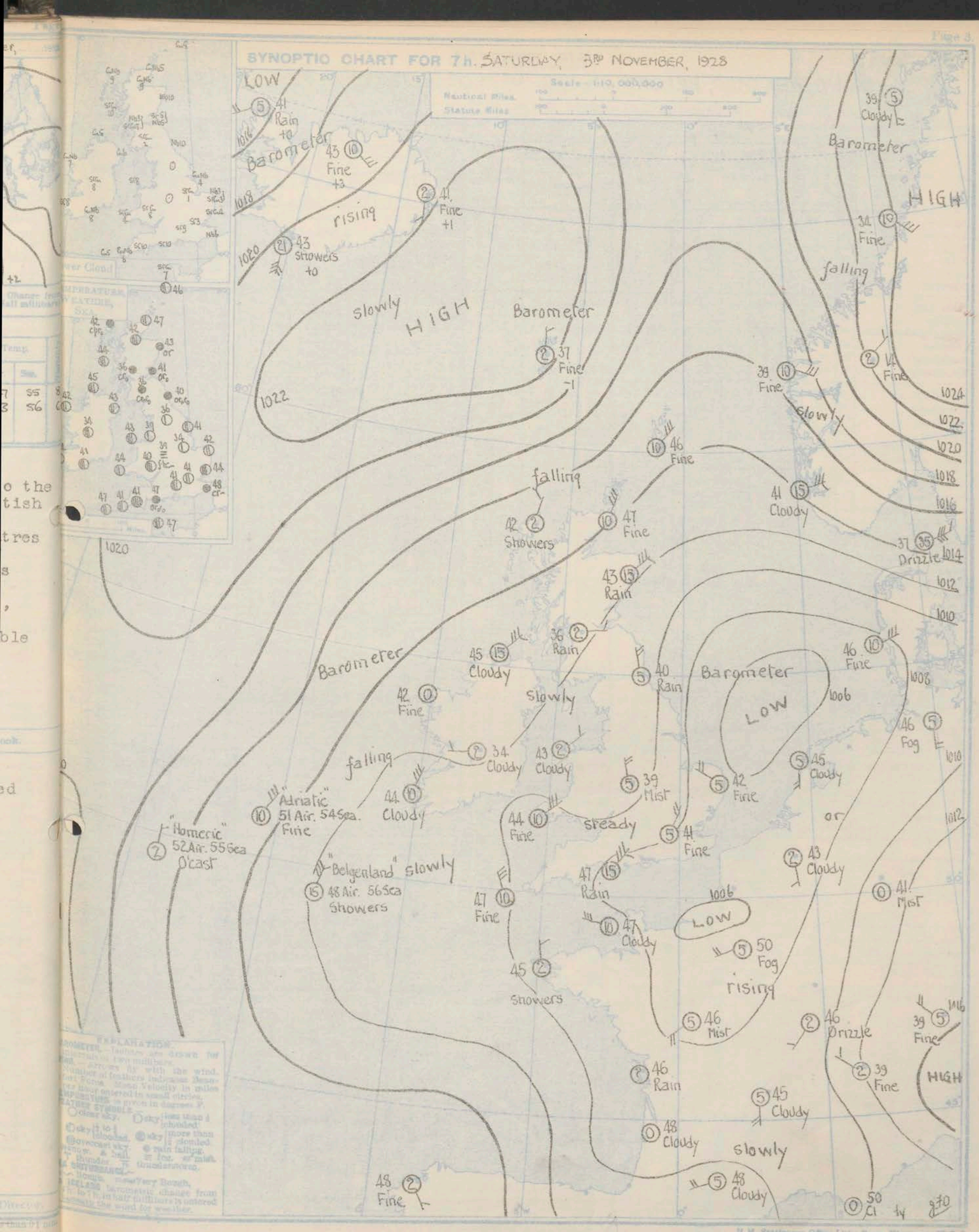
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 3rd November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Light or moderate northerly winds; mainly cloudy; occasional rain; inland morning mist; moderate day temperature, ground frost at night.	None issued
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Light or moderate N. or N.W. winds; mainly cloudy, occasional rain; inland morning mist; moderate temperature.	
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	Light or moderate N. or N.E. wind; mainly cloudy; occasional rain; moderate day temperature, ground frost at night.	
16. Orkneys and Shetlands	Light northeasterly winds; fair at first, cloudy later; moderate temperature, ground frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light or moderate N. to N.E. wind; fair at first, rain later; moderate temperature.	

RSR.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0915 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

Thick = rain has fallen, but in 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, 3rd. November 1928. No. 308.

Observations at 1h. G.M.T. 3rd.

Stations.	Height above M.S.L. in feet.	Barom. 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	1017.5	-1	NE	2	bc	45	65	8	1500	Cu	5	-	5
Stornoway	38	1018.6	-3	NE	3	c	•	•	7	•	•	•	•	8
Wick	51	1016.6	-1	NNE	3	bc	46	65	8	1500	CuNb	3	CiSt	6
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	89	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1015.9	-2	NNE	4	bc	46	85	8	4000	Cu	2	CiSt	5
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	190	1015.4	-1	NNE	3	C+	40	85	8	4000	Cu	7	A.Cu	9
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	87	1012.8	-1	NE	1	or	43	92	7	1500	Nb	10	-	10
Blacksod Point ...	18	1015.4	-2	-	0	bc	41	85	7	•	CuNb	7	-	7
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1011.6	0	NE	4	c	47	85	7	5700	StCu	9	-	9
Liverpool (Bidston) ...	180	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1009	0	N'E	4	c|pc	45	85	7	4000	CuNb	8	-	8
Birmingham (Edgbaston)	595	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	236	1010.4	0	N	3	c-	41	92	6	5700	StCu	6	A.Cu	8
Gorleston	14	1007.5	0	NW	2	C	46	92	7	2500	Nb	3	A.St	10
Valentia (Cahirciveen)¶	30	1015.0	-1	NE	3	c+	42	97	8	*	St	9	-	9
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	1008.3	-1	NNE	2	c+	45	85	8	800	Cu	9	-	9
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	16	•	•	•	•	•	48	•	•	•	•	•	•	•
Croydon	244	1007.9	0	NE	3	c	47	85	7	1500	StCu	10	-	10
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	360	1006.7	0	N'E	4	or	47	97	6	800	Nb	10	-	10
Scilly (St. Mary's) ...	163	1011.4	-2	NNE	3	c+	45	85	8	4000	Cu	8	-	8
Falmouth (Pendennis)	200	1009.3	-1	NE	1	C+	43	75	7	4000	StCu	8	-	8
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1007.7	0	N	3	or	46	85	4	1500	St	10	-	10
Southampton (Calshot)	10	1008.0	0	N'W	2	C	47	92	6	2500	StCu	9	-	9
Dungeness	28	1006.4	+1	NE	3	or	49	92	7	2500	Nb	10	-	10
Guernsey (Fort George) ¶	265	1008.2	0	WNW	1	od	46	92	5	1500	Nb	10	-	10

Observations at 7h. G.M.T. 3rd.

Stations.	Barom. M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-6
Lerwick	1015.0	-2	NE	3	bc	46	65	8	1500	Cu	5	-	5	•
Stornoway	1015.6	-2	NNE	1	c|pc	42	92	7	4000	CuNb	9	-	9	2
Wick	1014.8	-1	NNE	3	bc	47	65	8	1500	CuNb	5	A.S	7	1
Tiree	1014.2	-1	NE	4	c+	44	65	9	2500	StCu	10	-	10	3
Nairn	1014.0	•	NNE	2	c|r	42	85	8	1500	CuNb	9	-	9	•
Aberdeen	1013.4	-1	NE	4	or	43	85	7	1500	Nb	10	-	10	4
Malin Head	1013.5	-1	NE	4	C	45	85	8	4000	Cu	5	A.Cu	8	3
Renfrew	1013.7	0	E	1	cr	36	97	5	1500	StCu	10	-	10	•
Edinburgh (Inchkeith)	1011.9	-2	NNE	4	or	41	85	8	1500	St	10	-	10	2
Leuchars	102.7	-2	N	2	cir	40	85	7	800	Nb	8	A.St	10	•
Eskdalemuir	1011.7	-2	N'W	2	cr	36	92	8	1500	StCu	2	A.St	10	•
Tynemouth	1010.6	-1	NNW	2	or	40	92	6	800	Nb	10	-	10	4
Blacksod Point ...	1013.9	-1	-	0	bc	42	85	8	•	CuNb	7	-	7	2
Donaghadee	1013.9	-1	NE	2	bc+	43	75	8	4000	Cu	6	-	6	2
Birr Castle	1012.2	•	W	1	c+	34	92	6	1500	StCu	8	-	8	•
Holyhead	1010.6	0	NE'E	1	c|r	43	85	7	2500	St	8	-	8	1
Liverpool (Bidston) ...	1010.8	0	NNE	2	b	39	92	5	4000	St	1	-	1	•
Chester (Sealand) ...	1010.7	0	WNW	1	bc	38	92	5	2500	Cu	6	-	6	•
Harrogate	1010.8	0	N	1	b	36	92	7	-	-	0	A.Cu	1	•
Spurn Head	1007.9	0	NW'N	5	bc	41	97	7	4000	CuNb	4	CiCu	7	4
Birmingham (Edgbaston)	1010.6	0	NNW	2	fbc-	39	85	4	-	-	0	A.Cu	7	•
Cranwell	1016.6	0	NW	3	b	34	97	6	4000	StCu	1	CiCu	2	•
Gorleston	1007.8	0	NW	2	bc	42	92	6	2500	Nb	6	-	6	0
Valentia (Cahirciveen)¶	1011.9	-3	NNE	3	c	44	85	8	1500	St	8	A.St	10	4
Roches Point	1011.3	-2	NNE	3	c	43	92	8	1500	CuNb	8	-	8	0
Pembroke (St. Ann's H.)	1008.7	0	NE'E	3	bc-	44	92	8	2500	StCu	4	A.St	6	1
Ross-on-Wye	1010.1	0	NE	1	c	40	92	5	4000	StCu	8	-	8	•
Leafield	1009.3	0	N	3	bc	37	97	7	5700	StCu	3	CiSt	6	•
Winchester (Worthy Dn.)	1008.3	0	N'W	3	c	42	92	8	5700	StCu	7	CiSt	10	•
S. Farnborough ...	1008.7	0	N	2	c+	41	92	7	450	St	9	-	9	•
London (Kew Obsy.) ...	1008.0	0	NNE	2	bc	41	92	5	1500	St	3	Ci	7	•
Croydon	1008.4	0	NNE	2	C+	42	92	5	1500	St	5	A.Cu	8	
Shoeburyness	1007.9	0	NNW	2	c	43	97	7	4000	StCu	8	-	8	•
Clacton-on-Sea ...	1007.7	0	NNW	3	c	44	92	6	4000	Nb	8	-	8	1
Felixstowe	1008.2	0	N'W	3	c	43	92	7	4000	StCu	4	A.Cu	9	2
Lympne	1007.2	+1	N	3	c	45	97	7	1500	Nb	10	-	10	•
Scilly (St. Mary's) ...	1010.5	-1	WNW	3	bc	47	75	8	4000	Cu	5	-	5	3
Falmouth (Pendennis)	1008.2	-1	NE	1	bc+	41	85	7	4000	CuNb	6	-	6	0
Plymouth (Cattewater)	1008.6	-1	NW	1	o	41	97	6	1500	St	10	-	10	0
Portland Bill	1007.3	0	NE	4	or	47	85	8	1500	St	10	-	10	4
Southampton (Calshot)	1008.1	0	NNE	2	cr	46	85	8	1500	Nb	6	A.St	9	1
Dungeness	1007.3	+2	NE	3	cr-	48	92	8	1500	Nb	6	A.St	10	3
Guernsey (Fort George) ¶	1008.5	0	WNW	3	c	47	75	7	2500	StCu	7	A.St	9	

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 1st. to 9h. 2nd	Temperature. Max. 9h. -17h. 2nd	Rainfall.† Night 17h.-9h. 1st.-2nd	Rainfall.† Day 9h.-17h. 2nd	Sunshine. Sunrise to Sunset. 2nd
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F	°F	mm.	mm.	hr.
Berwick-on-Tweed	Ro	RRo	42	45	2	4	0.0
Douglas (I. o. M.) ...	bc	p	39	46	Trace	3	2.6
Llandudno ...	c	cdc	44	49	0.1	Trace	0.9
Colwyn Bay ...	ococ	coroc	45	48	-	1	0.4
Rhyl	cbc	crp	44	54	-	0.2	1.7
Wallasey	bocbc	bccor	40	47	-	1	3.0
Southport	bbcop	orco	39	47	-	1	1.8
Blackpool	co	pd	39	46	-	1	1.1
Ilkley	cpc	po	36	49	0.2	1	0.0
Cleethorpes	o	o	43	50	0.4	-	0.0
Skegness	bcco	oro	44	51	-	5	0.0
Aberystwyth ...	xbc	bcc	40	48	-	-	5.5
Bath	bcb	bbcc	40	47	Trace	-	4.5
Cheltenham‖ ...	cbcc	co	37	48	-	-	1.0
Leamington Spa ...	cbc	cmr	37	46	-	0.2	2.8
Lowestoft	c.cr	cir	44	52	-	1	0.0
Harwich & Dovercourt	roc	roc	46	53	1	2	0.0
Maldon	c	co	45	49	-	-	0.0
Southend	od	om	48	49	5	Trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	bc	bc	42	46	•	-	4.0
Penzance	c	cb	46	50	-	-	3.4
Paignton	bcz	bcbm	42	48	-	-	4.7
Torquay	bcb	bm	43	49	-	-	5.3
Jersey	r	pr	47	50	15	3	0.0
Weymouth	cb	bc	41	48	-	-	3.1
Bournemouth ...	oco	o	40	47	-	-	0.2
Ventnor ...	or	or	41	44	4	1	0.0
Portsmouth (S'thsea)	od.d	od.d	43	47	4	0.6	0.0
Bognor	crr	orr	44	47	2	1	0.0
Littlehampton ...	c.cr	cro	44	47	1	1	0.0
Worthing	odr	r.c	43	47	3	1	0.0
Brighton	roc	coco	43	48	12	0.5	0.0
Eastbourne‖	r.r	rom	43	50	9	2	0.0
Hastings‖	prod	oro	43	50	15	1	0.0
Folkestone	orm	orm	46	50	39	12	0.0
Dover	orr	orr	47	50	45	25	0.0
Tunbridge Wells ...	orro	ono	45	48	11	1	0.0
Ramsgate	or	or	47	51	25	9	0.0
Margate	cr	cr	47	53	17	10	0.0
Deal	r	r	46	51	39	34	0.0

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* Information not usually received. ¶ The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. 24454 SUNDAY 4TH NOVEMBER 1928. Page 1.

Observations at 13h. G.M.T. 3RD / 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	Upper Form.	Total Amt. 0-10	State of ground.	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	Sea. 0-9
Lerwick	1011.7	-2	E	2	bc	46	55	8	1500	Cu.	4	A.St.	7	•	1011.0	0	E	2	bc	43	65	8	1500	St.Cu.	5	–	5	•
Stornoway	1011.1	-3	NE	2	c/pr₀	45	85	6	4000	Nb.	9	–	9	•	1012.8	-2	NE	2	c/pr₀	44	85	6	4000	Cu.Nb.	8	–	8	2
Wick	1012.9	-2	NNE	3	c	47	65	8	1500	Cu.Nb.	8	–	8	•	1012.0	-1	NNE	3	c	44	85	8	1500	Cu.Nb.	4	A.St.	8	2
Tiree	1012.3	-1	ENE	3	cv	46	65	9	2500	St.Cu.	10	–	10	0	1012.1	-1	E	1	cv	42	75	9	2500	St.Cu.	10	–	10	3
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.4	*	NE	1	c/r	41	85	8	1500	Cu.Nb.	8	–	8	•
Aberdeen	1011.0	-3	N	3	cr₀	44	85	8	1500	Nb.	5	A.St.	9	2	1010.2	-1	NNE	4	cr₀	44	85	7	800	Nb.	9	A.St.	10	4
Malin Head	1012.8	-1	ENE	4	c	46	92	8	4000	Cu.	4	A.St.	9	•	1011.9	-1	EN	4	cr₀	44	97	8	4000	St.Cu.	5	A.St.	10	1
Renfrew	1011.8	-3	N	1	cr₀r₀	41	85	6	4000	Nb.	10	–	10	2	1011.0	-2	NW	1	c	39	97	6	5700	St.Cu.	10	–	10	•
Edinburgh (Inchkeith)	1010.9	-1	NNE	4	c	42	92	8	1500	St.	6	A.St.	10	•	1009.9	-1	NNE	3	or₀	43	75	8	800	St.	10	–	10	1
Leuchars	1011.1	-1	N	2	cr₀	42	85	8	1500	Nb.	5	A.St.	10	2	1009.7	-1	NW	2	c	42	85	8	2500	St.Cu.	6	A.St.	10	•
Eskdalemuir	1010.2	-2	N	3	cr₀r₀	39	85	8	1500	St.	4	A.St.	10	2	1009.7	-1	N	2	c	37	85	7	5700	St.Cu.	9	–	9	•
Tynemouth	1008.6	-1	NW	2	cjp	44	92	6	800	Nb.	8	–	8	•	1008.4	-1	WNW	2	qjp	43	85	6	800	Nb.	10	–	10	4
Blacksod Point	1011.2	-1	–	0	bcv	48	65	9	*	Cu.Nb.	7	–	7	•	1010.7	-2	–	0	c	45	85	8	*	Cu.Nb.	8	–	8	2
Donaghadee	1012.8	-2	NE	2	c/pr₀	43	85	8	2500	St.Cu.	8	–	8	•	1012.2	-1	NE	2	bc-	43	85	8	4000	Cu.	6	–	6	2
Birr Castle	1011.0	•	N	2	c	45	75	7	1500	St.Cu.	8	–	8	•	1010.1	*	NNE	1	c+	41	92	6	1500	St.Cu.	4	A.St.	10	•
Holyhead	1010.1	-2	NEE	2 1	c	48	75	7	4000	St.Cu.	8	Cu.St.	8	1	1010.0	0	ENE	1	b-	45	85	8	4000	St.Cu.	1	–	1	1
Liverpool (Bidston)	1010.0	-2	ENE	2	b	45	65	7	4000	St.Cu.	1	C.St.	1	•	1010.0	0	NNW	1	b+	42	85	7	4000	St.	1	–	1	•
Chester (Sealand)	1009.8	-2	NW/N	2	c+	46	75	5	1500	Cu.	8	–	8	1	1009.8	+1	NNW	1	b	35	85	6	–	–	0	–	0	•
Harrogate	/		W	1	c-	43	75	8	4000	St.Cu.	9	–	9	•	1010.0	0	SW	2	b	37	75	7	–	–	0	–	0	•
Spurn Head			NW	4	bc	46	85	7	4000	Cu.	3	Ci.St.	5	•	1009.3	-1	WNW	3	bc-	43	85	7	4000	Cu.	3	–	3	3
Birmingham (Edgbaston)			N	2	b	45	65	5	2500	Cu.	1	–	1	2	1010.2	+1	–	0	mmb	40	85	4	–	–	0	–	0	•
Cranwell	1009.9	-1	N'W	2	c+	43	85	7	2500	Cu.	8	–	8	1	1010.5	+1	–	0	c+	38	97	6	4000	St.Cu.	8	–	8	•
Gorleston	1008.2	-1	NW/N	1	bc	57	75	7	4000	Cu.	2	Ci.Cu.	5	•	1009.3	+2	NW/N	1	b-	45	85	6	1500	St.	2	–	2	0
Valentia (Cahirciveen)	1011.2	-3	NE/N	3	bc	47	65	8	2500	St.Cu.	5	A.Cu.	6	0	1010.6	0	NNE	2	bcv	44	65	9	2500	St.Cu.	5	A.Cu.	7	0
Roches Point	1010.9	-1	NNE	3	c	45	~~65~~ 75	8	2500	St.Cu.	9	–	9	•	1010.2	0	N	3	c	44	85	8	2500	St.Cu.	9	–	9	0
Pembroke (St. Ann's H.)	1008.6	-1	E	1	bc	50	75	7	–	–	0	A.Cu.	5	•	1008.2	0	NE	1	bc	47	85	7	–	–	0	A.St.	7	0
Ross-on-Wye	1009.3	0	NE	1	bc-	47	65	7	4000	St.Cu.	6	–	6	2	1010.0	0	ENE	1	mbc	40	85	4	2500	St.	4	–	4	•
Leafield	1009.5	+1	ENE	2	bc	43	75	8	4000	St.Cu.	4	–	4	2	1009.9	0	NEN	1	bc-	39	85	7	5700	St.Cu.	3	–	3	•
Winchester (Worthy Dn.)	1008.8	-1	N'E	3	c	46	85	8	7000	St.Cu.	9	–	9	1	1009.2	+1	N	1	c	44	85	7	4000	St.Cu.	9	–	9	•
S. Farnborough	1008.9	-1	N	2	c	48	75	7	1500	St.Cu.	9	–	9	0	1009.2	0	N'E	1	bc	41	92	6	5700	St.	6	–	6	•
London (Kew Obsy.)	1009.1	0	NNE	2	c+	47	75	6	–	–	0	A.Cu.	9	1	1009.5	0	NE	2	o	46	75	5	1500	St.	10	–	10	•
Croydon	1008.9	-1	NE/N	2	fc-	48	75	4	1500	St.Cu.	5	A.Cu.	9	2	1009.2	+1	NEE	2	fc-	44	85	4	4000	St.Cu.	9	–	9	•
Shoeburyness	1008.6	+1	NNE	3	bc	49	85	7	5700	St.Cu.	2	Ci.	4	•	1009.5	+2	NE	1	c+	43	92	6	–	–	0	A.Cu.	8	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	+1	NNW	2	bc	45	85	6	5700	St.Cu.	4	–	4	1
Felixstowe	1008.6	0	N	3	bc	50	75	8	4000	Cu.	3	Ci.	5	1	1010.1	+1	N	1	b	42	85	7	–	–	0	–	0	0
Lympne	1008.0	+1	N'W	4	c	48	85	7	2500	St.Cu.	5	A.Cu.	9	1	1008.6	0	N	4	c	45	85	7	2500	St.Cu.	9	–	9	•
Scilly (St. Mary's)	1010.1	0	WNW	3	bc	52	75	8	4000	Cu.	3	–	3	•	1010.0	0	W'N	3	bc	46	75	8	4000	St.Cu.	3	A.Cu.	5	2
Falmouth (Pendennis)	1008.4	-1	NNW	1	c	46	85	6	4000	St.Cu.	9	–	9	•	1007.7	0	–	0	c	47	85	7	4000	St.Cu.	9	–	9	0
Plymouth (Cattewater)	1008.2	-1	E	3	c	48	85	8	1500	Nb.	10	–	10	1	1008.2	0	NE	3	cr₀r₀	45	92	7	1500	Nb.	9	A.St.	10	0
Portland Bill	1007.5	0	NNE	3	or₀	48	85	8	1500	Nb.	10	–	10	•	1007.8	+1	NE	3	or₀	47	85	6	1500	Nb.	10	–	10	1
Southampton (Calshot)	1008.6	-1	NNE	2	c	48	75	7	2500	St.	9	–	9	0	1008.8	0	NNE	1	cr₀	47	85	6	2500	Nb.	10	–	10	0
Dungeness	1007.9	0	NE	3	c-	49	85	8	1500	Cu.	6	A.Cu.	9	•	1008.4	+1	NE	2	c	50	85	8	5700	St.Cu.	10	–	10	2
Guernsey (Fort George)	1008.0	-1	WNW	2	c-	50	65	7	4000	St.Cu.	6	A.Cu.	8	•	1008.6	+1	W	2	bc-	48	75	8	4000	St.Cu.	4	A.Cu.	7	1

LONDON OBSERVATIONS. Day 7h-18h., Kew & Croydon. 9h-18h., Kensington. 9h-21h., other stations.	Height above M.S.L. in feet.	Weather (24 Hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day.	Night.†	Sunshine to Sunset, hrs. (Yesterday)	Humidity 13h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bcvicm	com₀	cmiur	47	42	41	-	0.1	2.8	*	*	*
Croydon	244	bmffcz	czff	cmfrr	48	42	39	-	1	0.5	*	*	*
Greenwich (Royal Obsy.)	149	c	c	crcf	49	41	37	-	0.3	2.6	77	92	3
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	3.4	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	49	44	40			2.8	77	91	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	3.0	*	*	*
Camden Square	110	bc	c	*	48	41	–	–	1	*	*	97	*
Kensington Palace	89	bcc	oc	*	48	42	39	-	0.6	*	(At 18h) 76	92	*
Hampstead Observatory	450	*	*	*						4.3	*		*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.6	3rd 21h.3m	0.3	4th 4h

Kew Observatory Max.	Time.	Min.	Time.
0.6	3rd 20h	0.1	3rd 12h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 3RD ....h....m. to 4TH ....h....m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris			
δ Ursae 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=Stating 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 & 5TH NOV., 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.56 / 6.58	11.37 / 11.37	16.16 / 16.14
Greenwich	7.0 / 7.2	11.44 / 11.44	16.26 / 16.25
Wick	7.37 / 7.39	11.56 / 11.56	16.14 / 16.12
Valentia	7.42 / 7.44	12.25 / 12.25	17.6 / 17.4

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. r₀ = slight rain.
rr = continuous rain.

SYMBOLS.
< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. Ⓤ = inner 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.

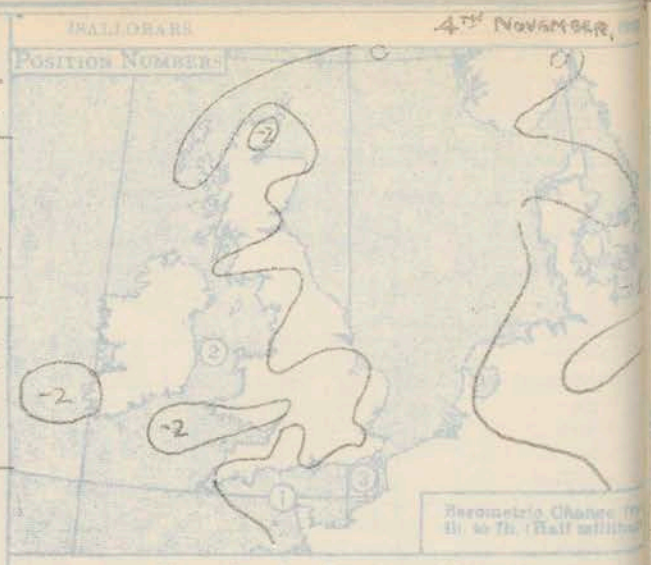
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. 3RD	Weather. 13h.-18h. 3RD	Weather. 18h. 3RD to 18h. 4TH	Weather. 18h.-7h. 4TH	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 3RD Hours.
Lerwick	cby	bc	bc	bcc	47	38	•	-	-	-	-	3.6
Stornoway	p	p	c	cprc	45	40	•	2	9.00	1	<21.00	0.5
Wick	cprc	cprc	cprcrr	oirr	48	44	•	or	9.00	4	<21.00	•
Tiree	c	cc	cbc	cbc	47	38	30	-	-	-	-	0.0
Nairn	pc	cpr	cprr	rrc	45	39	•	or	11.30	5	22.00	0.0
Aberdeen	orcrrir	cirprrcr	cirrr	cirir	44	42	40	4	8.00	11	<21.00	0.0
Malin Head	c	cr	crcir	bcrbx	46	35	•	0.3	15.30	1	<21.00	0.1
Renfrew	crrm	orrc	cm	c	42	35	31	2	<8.00	-	-	0.0
Edinburgh (Inchkeith)	orrc	ccir	orrid	ocpr	43	41	39	2	<8.00	1	<21.00	0.0
Leuchars	rrir	circ	cprc	cbc	42	41	38	3	<8.00	0.6	<21.00	0.0
Eskdalemuir	cirprr	crc	cprcbc	cprbcm	39	33	30	1	<8.00	1	<21.00	0.0
Tynemouth	ccir	ccir	oir	bc	45	39	35	2	<8.00	2	<21.00	•
Blacksod Point ...	pc	pc	pc	b	51	39	•	1	•	0.2	•	•
Donaghadee	cpr	cpr	bc	bcbbc	45	34	•	Tr.	11.00	-	-	•
Birr Castle	c	cm	c	frrm	46	37	34	-	-	3	3.30	1.9
Holyhead	rcbc	cbcw	bw	bbcwc	48	38	32	or	9.00	Tr.	-	4.0
Liverpool (Bidston) ...	bbcb	bbc	bwx	ofcx	45	32	29	-	-	-	-	6.8
Chester (Sealand) ...	bbcm	bcbx	bbcm	bccffx	51	25	18	-	-	-	-	5.7
Harrogate	bbcc	cb	b	bx	43	31	25	-	-	-	-	2.8
Spurn Head	bc	bc	bcbw	bbcw	47	38	•	-	-	Tr.	-	5.6
Birmingham (Edgbaston)	mbcb	bm	b ff	fbxmc	46	33	21	-	-	-	-	5.7
Cranwell	bbc	bc	bm	bmxcff	45	26	21	-	-	-	-	6.3
Gorleston	bc	bc	bw	bwbc	52	36	33	-	-	Tr.	-	2.7
Valentia (Cahirciveen)	cbc	cv	bc	bccw	48	35	30	-	-	Tr.	-	6.2
Roches Point	c	c	c	circ	45	40	•	-	-	4	1.30	•
Pembroke (St. Ann's H.)	bc	bc	bbcc	cm	61	44	•	-	-	-	-	2.1
Ross-on-Wye	bcbc	bcbzc	cmwbfof	ofrofc	47	37	32	-	-	1	5.30	6.0
Leafield	bc	bc	bbc	bccpr	45	35	30	Tr.	-	0.3	3.30	3.7
Winchester (Worthy Dn.)	c	c	corcor	orm.o	47	40	38	-	-	1	<21.00	0.1
S. Farnborough ...	c	c	bcm.or	orrmoff	48	40	33	-	-	2	24.00	0.1
London (Kew Obsy.) ...	bcwcm	com	cm	cirm	47	42	41	-	-	0.1	1.30	2.8
Croydon	amffcz	czff	cmm	corrm	48	42	39	-	-	1	2.30	0.5
Shoeburyness	cbc	bcc	cbbc	bccm	51	38	36	-	-	Tr.	-	6.2
Clacton-on-Sea ...	cbc	bcm	bcm	bcmc	50	40	[illegible]	-	-	-	-	4.9
Felixstowe	bc	bcb	bccw	bwbcc	51	36	31	-	-	Tr.	-	5.4
Lympne	cmc	cmc	cbcc	cprr	49	43	39	Tr.	11.00	5	4.30	1.5
Scilly (St. Mary's) ...	bc	bc	bcb	bccpbc	52	41	•	-	-	0.2	4.30	6.5
Falmouth (Pendennis)	bcc	cmr	corc	cbcb	47	43	•	Tr.	11.30	Tr.	<21.00	0.0
Plymouth (Cattewater)	amcwr	crrrm	crrb	bw3	48	41	34	1	11.00	0.3	<21.00	0.0
Portland Bill	cir	ocrz	orrm	pirbcpm	48	46	•	1	<8.00	4	<21.00	•
Southampton (Calshot)	cr	cmmrr	drrmm	cbcm	48	43	32	Tr.	16.30	0.5	<21.00	0.0
Dungeness	orc	c	c	cpcr	51	48	-	or	8.00	10	3.30	•
Guernsey	cir	cbc	bcv	bcv	50	46	•	Tr.	<8.00	-	-	0.4



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	3rd 10h	Cambria	ESE	2	/PR	45	45
1	" 12h	St Helier	N	3	orr	51	57

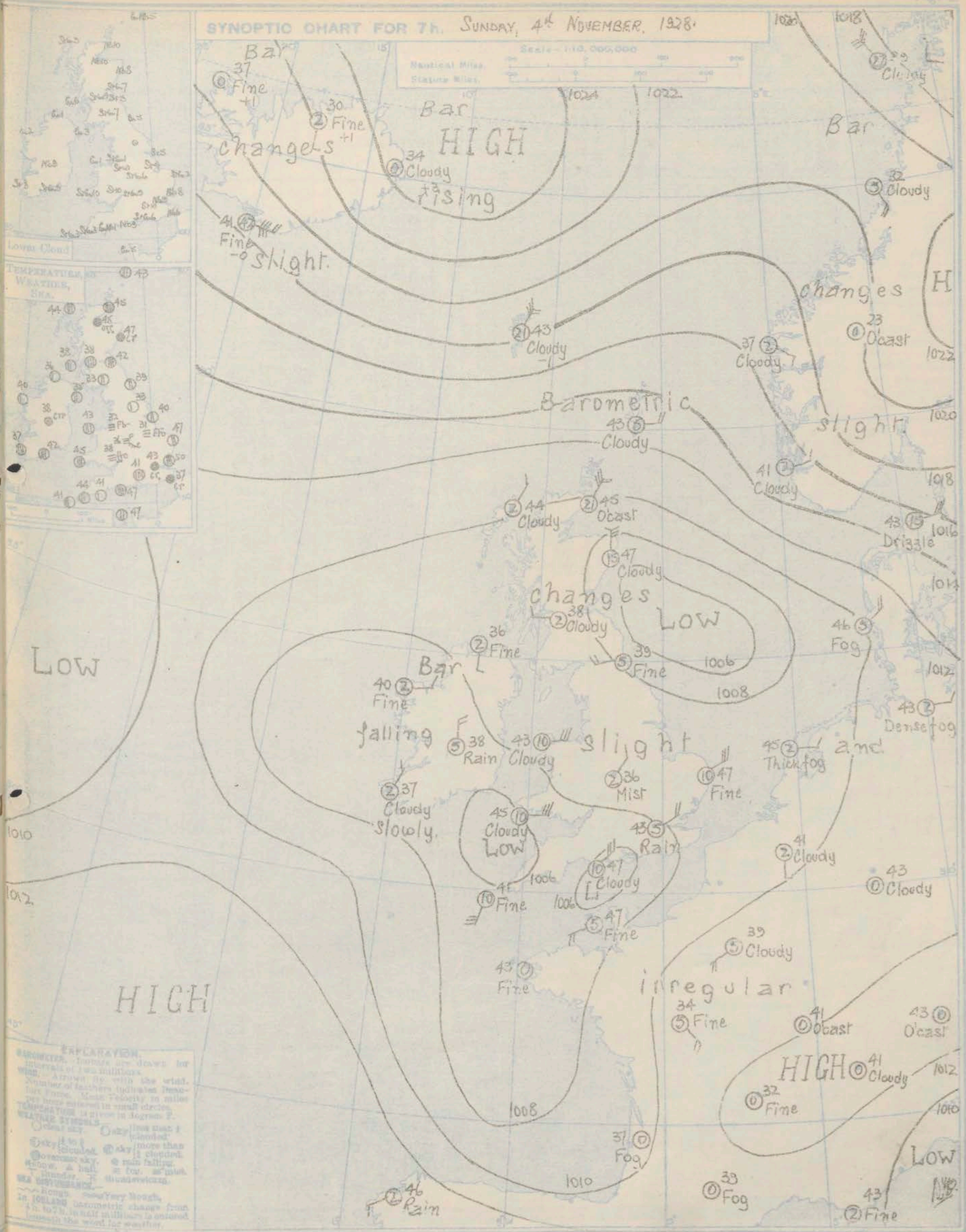
GENERAL INFERENCE.

An area of relatively low but uniform pressure covers the British Isles, shallow depressions being indicated over the North Sea and over Ireland and Southwest England. Winds will be mainly light and variable and weather cloudy with occasional rain in most districts, some mist or fog prevailing locally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M. Sunday, 4th November, 1928.	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	Light variable winds; mainly cloudy, occasional local rain, fairer periods; some mist with local fog. rather low or moderate day temperature, ground frost inland at night.	None issued.
12. S.W. Scotland & Isle of Man 13 (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland	Light variable to E. or S.E. winds; mainly cloudy, occasional local rain, fair periods; some mist with local fog; rather low or moderate day temperature, ground frost inland at night.	
15. N.E. Scotland	As 1 - 11.	
16. Orkneys and Shetlands	As 12 - 13B.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds becoming southerly and freshening somewhat; mainly cloudy, local rain, fairer periods; mist locally; rather low or moderate temperature, ground frost inland at night, temperature rising to-	E.C.R.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 11.30 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...SUNDAY 4TH NOVEMBER...1928. No. 309

Stations.	Height above M.S.L. in feet.	Observations at 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	Observations at 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	64	1013.4	0	-	0	bc	41	76	8	1500	Cu	7	-	7	1013.2	0	E	2	cjp	43	75	8	1500	CuNb	5	ASt	10	*
Stornoway	89	1011.7	-1	NE	2	c	*	*	7	*	*	*	*	9	1010.8	0	NE	1	c	44	85	7	4000	StCu	9	-	9	1
Wick	81	1011.2	-1	NE	4	c/r	45	85	8	1500	CuNb	6	ASt	8	1010.6	-2	NNE	5	oG	45	92	7	1500	Nb	10	-	10	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.0	0	E	1	bcv	38	85	9	4000	Cu	6	-	6	1
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.5	*	N'W	4	or.r.	45	97	7	800	Nb	10	-	10	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.6	-1	N	4	cr	47	97	8	800	Nb	8	ASt	10	4
Malin Head	81	1010.5	-1	S	1	bcjp	40	97	8	4000	Cu	7	-	7	1009.6	-1	S	1	b	36	97	8	4000	Cu	1	ACu	2	1
Renfrew	56	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.9	-1	W	1	c	38	92	8	4000	StCu	7	ASt	10	*
Edinburgh (Inchkeith)	180	1008.2	-2	NW	3	or	42	86	8	800	Nb	10	-	10	1007.4	-1	W	3	c	42	85	8	2500	St	5	ASt	9	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.9	0	NW	3	bc-	43	85	8	4000	StCu	4	ACu	4	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.4	0	-	0	bc	33	97	6	4000	StCu	7	-	7	*
Tynemouth	67	1007.3	0	W	2	bc/r	40	92	7	1500	Cu	6	-	6	1006.6	0	W	2	bc	39	92	7	1500	Cu	5	-	5	4
Blacksod Point ...	18	1008.0	-1	SE	1	c	44	76	8	-	CuNb	9	-	9	1006.7	-1	E	1	b	40	85	8	*	Cu	2	-	2	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.7	0	-	0	bc	35	97	8	4000	Cu	4	-	4	0
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.6	*	N	2	crr	38	97	5	1500	Nb	9	-	9	*
Holyhead	20	1009.1	-1	E'S	1	b	41	85	7	2500	Cu	1	-	1	1008.2	-1	E	2	c+	43	85	7	2500	Cu	1	ACu	9	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.0	-1	SE	3	fb-	32	97	2	4000	StCu	1	-	1	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.1	0	SSE	2	FFo	26	97	1	<150	St	10	-	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.6	0	SSW	1	b	33	85	7	-	-	0	ACu	1	*
Spurn Head	29	1009.3	0	SW	2	b	39	92	6	-	-	0	-	0	1009.1	0	SWW	1	bc+	40	92	6	4000	St	5	-	5	3
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.3	-1	NE	1	fc-	36	92	4	4000	StCu	9	-	9	*
Cranwell	236	1010.4	0	-	0	mb+	31	97	4	-	-	0	-	0	1010.1	0	-	0	ffo	31	97	2	5700	St	10	-	10	*
Gorleston	14	1009.4	0	NW'N	2	b	39	97	7	-	-	0	-	0	1008.1	0	ENE	3	bc	47	85	7	4000	StCu	2	ACu	6	0
Valentia (Cahirciveen) ‡	30	1010.5	-2	-	0	bcv+	41	92	9	*	StCu	4	-	4	1007.3	-2	NE'N	1	c	37	92	8	2500	St	9	-	9	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.5	-1	NNE	3	c	42	97	8	1500	StCu	9	-	9	0
Pembroke (St. Ann's H.)	150	1007.2	-1	ESE	3	c+	46	85	7	2500	StCu	3	-	9	1006.[illegible]	-2	E	4	c+	46	85	6	2500	StCu	10	-	10	2
Ross-on-Wye	285	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.3	-1	-	0	ffo	38	97	3	800	St	10	-	10	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.5	-2	NE	3	c	39	92	6	4000	StCu	9	-	9	
Winchester (Worthy Dn.)	273	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.1	0	ENE	1	o	43	97	5	1500	St	10	-	10	*
S. Farnborough ...	327	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	-1	ENE	3	ffo	42	97	3	800	St	10	-	10	*
London (Kew Obsy.) ...	18	*	*	*	*	*	44	*	*	*	*	*	*	*	1007.8	-1	ENE	2	cr.	43	92	5	1500	Nb	9	ASt	10	*
Croydon	244	1008.9	-1	E'N	2	c	42	92	5	4000	StCu	5	ACu	9	1008.1	-1	E'S	2	o/r	42	97	5	1500	St	10	-	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	0	SE	3	c	49	97	6	5700	StCu	7	ASt	9	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.2	-1	E	4	c	50	85	6	4000	Nb	8	-	8	3
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	0	NE	2	c	44	92	7	2500	StCu	8	ASt	9	2
Lympne	350	1007.9	-1	NE'E	3	c	45	92	8	4000	StCu	7	ACu	9	1007.6	0	SE'E	3	cr.	47	92	8	4000	Nb	9	ASt	10	*
Scilly (St. Mary's) ...	163	1005.1	-1	WSW	2	bv	44	75	9	-	-	0	Ci	1	1007.9	-1	SW'S	3	bc+	41	92	8	4000	StCu	3	ACu	5	1
Falmouth (Pendennis)	200	1006.8	-1	-	0	c-	46	85	8	4000	StCu	8	-	8	1005.7	0	WNW	1	bc+	44	75	8	4000	StCu	3	-	3	0
Plymouth (Cattewater)	62	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.7	0	-	0	b	41	97	6	4000	CuNb	1	-	1	0
Portland Bill	33	1007.2	-1	NE	3	orr	46	92	5	1500	Nb	10	-	10	1005.8	0	NE	3	c/PR-	47	92	5	1500	Nb	9	-	9	1
Southampton (Calshot)	10	1007.3	-2	N'E	2	o/r	45	97	6	1500	Nb	10	-	10	1007.0	0	WNW	1	bc	43	97	5	4000	StCu	6	-	6	0
Dungeness	20	1007.8	-1	E	2	c	51	85	8	1500	StCu	4	ASt	8	1007.7	+1	SE	2	cr	51	92	7	2500	Nb	6	ASt	10	1
Guernsey (Fort George) ‡	205	1008.0	0	W	1	bc+	45	92	8	4000	StCu	6	-	6	1007.6	0	WSW	2	bcv	47	75	9	2500	Cu	6	Ci	6	1

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR...3RD NOVEMBER.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 2nd to 9h. 3rd	Temperature. Max. 9h. -17h. 3rd	Rainfall.† Night 17h.-9h. 2nd-3rd	Rainfall.† Day 9h.-17h. 3rd	Sunshine. Sunrise to Sunset. 3rd	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)								
			°F.	°F.	mm.	mm.	hr.								
Berwick-on-Tweed	RRo	RRo	39	45	11	3	0.0	Bude	coc	oec	33	46	-	-	0.0
Douglas (I. o. M.) ...	bbcc	bbcc	39	46	2	-	5.8	Penzance	c	c	40	52	0.3	-	0.6
Llandudno ...	bcb	b	41	48	1	-	6.5	Paignton	odm	ordn	37	46	1	2	0.0
Colwyn Bay ...	b	b	41	47	2	-	6.5	Torquay	opm	orng	39	46	1	2	0.0
Rhyl	bcb	bbc	38	49	3	-	7.8	Jersey	rc	c	47	51	4	-	0.0
Wallasey	b	b	37	50	Trace	-	7.2	Weymouth	cpoc	cpccp	43	47	1	0.3	0.0
Southport	b	bz	35	46	-	-	8.2	Bournemouth ...	o	o	40	47	3	-	0.0
Blackpool	cbcb	bbc	36	46	-	-	8.2	Ventnor ...	co	or	44	47	Trace	0.3	0.2
Ilkley	bcc	bc	32	46	-	-	1.8	Portsmouth (S'thsea)	o	o	42	49	-	-	0.0
Cleethorpes	bcb	b	39	47	-	-	5.2	Bognor	cbcc	cbcc	43	50	-	-	1.2
Skegness	bc	bcc	34	49	Trace	-	4.9	Littlehampton ...	cbc	c	43	50	0.1	-	2.3
Aberystwyth ...	pgbc	bc	38	49	-	-	7.8	Worthing	cbc	bcc	44	51	-	-	2.7
Bath	bcc	c	40	47	7	-	0.9	Brighton	c	c	44	52	-	-	2.5
Cheltenham ...	bcb	bbcm	38	47	2	-	4.0	Eastbourne	coc	com	44	51	5	-	0.3
Leamington Spa ...	c	cm	38	45	1	-	0.8	Hastings	copc	cbcc	44	50	4	0.2	1.4
Lowestoft	b	bbc	41	50	0.4	-	4.0	Folkestone	rcm	cm	46	53	9	-	1.9
Harwich & Dovercourt	bc	bc	42	55	2	-	5.4	Dover	cbcc	cbccp	47	52	13	0.6	2.2
Maldon	bcb	bbc	40	50	2	-	4.2	Tunbridge Wells ...	mcbc	bco	42	50	4	-	3.7
Southend	cmbc	bccm	42	49	3	-	5.0	Ramsgate	c	c	45	51	29	-	0.0
								Margate	c	bc	48	51	19	-	0.2
								Deal	rom	oco	47	52	23	Trace	0.4

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* Information not usually received. ‡ The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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 17h.-9h. ‖ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24455. MONDAY 5th NOVEMBER, 1928. Page 1.

Observations at 13h. 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	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	1014.7	0	E	2	c	46	88	8	1500	Cu	5	aSt	10	•
Stornoway	1010.0	-2	ENE	3	c/pr₀	47	92	7	2500	CuNb	9	-	9	•
Wick	1010.3	0	ESE	3	c	49	75	8	1500	CuNb	8	aSt	10	•
Tiree	1009.0	0	E	3	c	(43)	75	9	2500	Cu	8	-	8	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1007.7	0	E	4	bc	49	85	8	1500	CuNb	6	aCu	7	2
Malin Head	1009.2	-1	NW	1	b	47	85	9	4000	Cu	2	-	2	•
Renfrew	1008.4	-1	W	2	c	48	75	6	7200	StCu	6	aCu	8	2
Edinburgh (Inchkeith)	1007.5	0	WSW	3	c	47	75	7	800	St	6	aSt	9	•
Leuchars	1007.1	0	W	2	cf₀	46	85	8	1500	St	10	-	10	2
Eskdalemuir	1008.3	+1	SSE	1	bc	41	92	7	1500	StCu	7	-	7	2
Tynemouth	1007.8	+1	W	2	bc	48	75	6	1500	Cu	5	-	5	•
Blacksod Point	1007.8	0	E	2	bc	44	75	8	•	StCu	7	-	7	•
Donaghadee	1010.1	-1	E	2	bc+	47	75	8	4000	Cu	2	aCu	3	•
Birr Castle	1006.3	•	N	2	cr₀f₀	41	85	6	1500	Nb	9	-	9	•
Holyhead	1007.8	-1	SE	1	c	47	65	6	4000	St	9	aSt	10	1
Liverpool (Bidston)	1008.1	-1	E'S	2	ffbc	42	85	3	-	-	0	aCu	7	•
Chester (Sealand)	1008.2	-2	-	0	fc-	39	92	4	2500	Cu	9	-	9	2
Harrogate	1009.0	-1	-	0	mc	45	65	4	4150	StCu	8	-	8	•
Spurn Head	1009.4	0	E	2	bc	48	75	7	4000	Cu	3	CiCu	5	•
Birmingham (Edgbaston)	1008.1	-1	NE	2	fc+	41	92	2	800	Nb	9	-	9	6
Cranwell	1010.3	0	ENE	2	c+	47	85	6	4000	StCu	5	aCu	9	1
Gorleston	1008.5	0	SE'E	2	c	51	85	6	4000	Cu	9	-	9	•
Valentia (Cahirciveen)	1006.2	-2	NE	1	b+	46	75	8	2500	Cu	1	aCu	2	0
Roches Point	1005.9	-1	N	3	c	44	85	8	1500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1005.3	-1	E	3	bc/r	47	92	6	4000	Cu	4	Ci	6	•
Ross-on-Wye	1007.2	-1	ENE	2	ffo	41	97	3	220	St	10	-	10	2
Leafield	1007.3	0	ESE	2	c-	44	85	6	1500	St	9	-	9	1
Winchester (Worthy Dn.)	1007.2	0	S'E	3	c	50	75	8	4000	StCu	9	-	9	1
S. Farnborough	1007.1	0	S	2	c	54	65	7	2900	StCu	6	aCu	8	0
London (Kew Obsy.)	1007.8	-1	S'W	1	bc	52	75	5	2500	Cu	7	aCu	7	1
Croydon	1007.8	-1	SW'S	3	bc-	54	65	6	2500	StCu	4	aCu	5	2
Shoeburyness	1008.2	0	SW	2	c	52	85	7	5700	StCu	3	aCu	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1008.6	0	-	0	c	52	75	7	4000	StCu	9	-	9	0
Lympne	1007.9	-1	ESE	2	c/r	50	93	7	1500	Nb	9	-	9	2
Scilly (St. Mary's)	1007.4	0	S	4	bc	49	75	8	4000	StCu	7	-	7	•
Falmouth (Pendennis)	1005.[illegible]	-1	S	2	bc+	53	55	8	4000	Cu	5	aCu	6	•
Plymouth (Cattewater)	1006.3	-1	-	0	bc	55	55	8	4000	Cu	1	aSt	3	2
Portland Bill	1007.0	0	SW	1	c/p	52	75	8	1500	Nb	9	-	9	•
Southampton (Calshot)	1007.5	0	WSW	3	c	52	73	7	4000	StCu	6	aSt	8	0
Dungeness	1008.2	0	SW	3	c	54	65	8?	2500	Cu	6	aCu	9	•
Guernsey (Fort George)	1007.0	-1	SSE	3	c/p	49	85	8	1500	CuNb	6?	aSt	10	•

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	Upper Form	Total Amt. 0-10	Sea. 0-9
Lerwick	1013.7	+	E	3	c	45	75	8	1500	Cu	5	aSt	8	•
Stornoway	1009.5	0	ENE	1	bc-	45	92	7	4000	Cu	5	-	5	2
Wick	1010.1	0	ESE	4	c/pr₀	49	85	8	1500	CuNb	6	CiSt	8	4
Tiree	1007.8	0	E'N	2	c	42	92	9	2500	StCu	9	-	9	1
Nairn	1007.7	•	-	0	c/r	44	85	7	1500	CuNb	8	-	8	•
Aberdeen	1007.8	0	ESE	5	c/pR	47	92	8	1500	CuNb	5	-	5	4
Malin Head	1008.5	-1	S	1	b	41	97	8	5700	StCu	1	-	1	1
Renfrew	1008.5	0	SE	1	fb	34	97	3	-	-	0	-	0	•
Edinburgh (Inchkeith)	1007.4	+1	WSW	2	c/m	44	85	5	1500	St	9	-	9	0
Leuchars	1007.7	+1	WSW	2	bc	40	97	8	2500	StCu	4	-	4	•
Eskdalemuir	1008.6	+1	-	0	bc	40	92	7	2500	StCu	7	-	7	•
Tynemouth	1008.7	+1	S	2	bc	41	85	6	800	St	5	-	5	4
Blacksod Point	1007.3	+1	E	1	bc	44	75	8	•	StCu	4	-	4	1
Donaghadee	1009.3	-1	E	3	bc+	46	75	8	4000	Cu	4	aCu	5	2
Birr Castle	1004.9	•	N	1	cr₀f₀	44	92	6	800	Nb	9	-	9	•
Holyhead	1006.6	-1	E	5	c-	45	85	5	4000	StCu	9	-	9	3
Liverpool (Bidston)	1007.7	0	E	3	ffo	43	85	3	450	St	10	-	10	•
Chester (Sealand)	1007.5	0	SSW	1	mmo	41	92	4	4150	St	10	-	10	•
Harrogate	1009.7	0	-	0	or	38	85	4	4150	Nb	10	-	10	•
Spurn Head	1008.6	0	E	4	c	49	85	7	4000	StCu	9	-	9	3
Birmingham (Edgbaston)	1008.2	0	NE	1	fb+	42	92	3	-	-	0	-	0	•
Cranwell	1009.0	0	E	2	bc-	45	97	6	4000	StCu	2	aCu	6	•
Gorleston	1009.1	0	ESE	2	bc	50	92	7	-	-	0	CiCu	7	0
Valentia (Cahirciveen)	1005.7	0	E'N	1	bc	40	85	8	2500	Cu	5	-	5	0
Roches Point	1006.0	0	N	3	c	44	86	8	1500	StCu	9	-	9	0
Pembroke (St. Ann's H.)	1004.4	-1	ENE	2	c/r	46	92	8	2500	StCu	8	aSt	10	1
Ross-on-Wye	1007.3	0	N	1	ffo	42	97	3	450	St	10	-	10	•
Leafield	1007.7	0	ESE	3	b	42	92	6	4000	StCu	2	-	2	•
Winchester (Worthy Dn.)	1007.6	0	E	1	c	46	85	7	4000	StCu	8	-	8	
S. Farnborough	1007.8	+1	ESE	1	bc	42	92	5	5700	St	3	-	3	•
London (Kew Obsy.)	1008.3	+1	SSE	1	fb+	45	92	3	-	-	0	aCu	2	•
Croydon	1008.3	+1	SSE	2	mmb	43	92	4	2500	StCu	1	-	1	•
Shoeburyness	1008.7	0	-	0	c-	48	92	7	5700	StCu	6	aCu	9	•
Clacton-on-Sea	1008.8	0	SSE	2	c	51	85	7	5700	StCu	8	-	8	2
Felixstowe	1008.9	+1	-	0	c	47	92	6	4000	StCu	8	-	8	0
Lympne	1008.7	+1	-	0	b-	46	75	7	2500	Cu	2	-	2	•
Scilly (St. Mary's)	1006.7	0	W'N	4	b	47	75	9	4000	Cu	2	-	2	4
Falmouth (Pendennis)	1005.6	0	-	0	bc	47	85	8	4000	CuNb	4	aCu	6	0
Plymouth (Cattewater)	1006.3	+1	-	0	c	48	85	9	4000	Cu	8	aCu	9	0
Portland Bill	1006.0	0	SW	1	or₀	51	65	8	2500	Nb	10	-	10	0
Southampton (Calshot)	1007.4	0	ESE	3	c	51	75	7	4000	StCu	7	aCu	9	0
Dungeness	1008.6	0	SSE	1	b-	50	75	8	-	-	0	aCu	1	3
Guernsey (Fort George)	1006.3	-1	SE	4	or₀r₀	47	97	7	800	Nb	10	-	10	[illegible]

LONDON OBSERVATIONS. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 8h-18h, other stations.

Station	Heights above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. Day °F	Temp. 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 8h. G.M.T. % (To-day)	Visibility§
Kew	18	cfbcm	bcbf	bfx	53	32	26	Tr.	Tr.	2.6	•	•	0
Croydon	344	cbcf₀	cbcd₀	bmm	55	33	27	-	Tr.	3.5	•	•	4
Greenwich (Royal Obsy.)	149	cbcb	bcbf	bf	57	33	21	-	Tr.	3.6	66	100	0
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.8	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	56	36	31	-	-	1.9	74	91	•
Regent's Pk. (Botanic Gdns.)	165	•	•	•	•	•	•	•	•	1.7	•	•	•
Camden Square	110	ocf	cfc	•	50	35	-	-	-	•	•	94	•
Kensington Palace	88	obc	bc	•	54	35	28	-	-	•	(At 18h) 91	91	•
Hampstead Observatory	460	•	•	•	52	38	25	Tr.	0.1	0.4	•	85	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.
24 Hrs. ended 7h. G.M.T. 5th

South Kensington Max.	Time.	Min.	Time.
1.4	23h 4h	0.3	8h 4h

Kew Observatory Max.	Time.	Min.	Time.
1.5	14.5	0.1	14h 4h

POLE STAR RECORD at Greenwich Obsy.
Exposure from 4th 17 h. 30 m. to 5th 6 h. 0 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	12.30	10.5	81
δ Ursae Minoris	12.30	9.46	78

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.
5th & 6th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.58 / 7.0	11.37 / 11.37	16.14 / 16.13
Greenwich	7.2 / 7.4	11.44 / 11.44	16.25 / 16.23
Wick	7.39 / 7.42	11.56 / 11.56	16.12 / 16.10
Valentia	7.44 / 7.46	12.25 / 12.25	17.4 / 17.3

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. 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.
1 "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
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.

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.

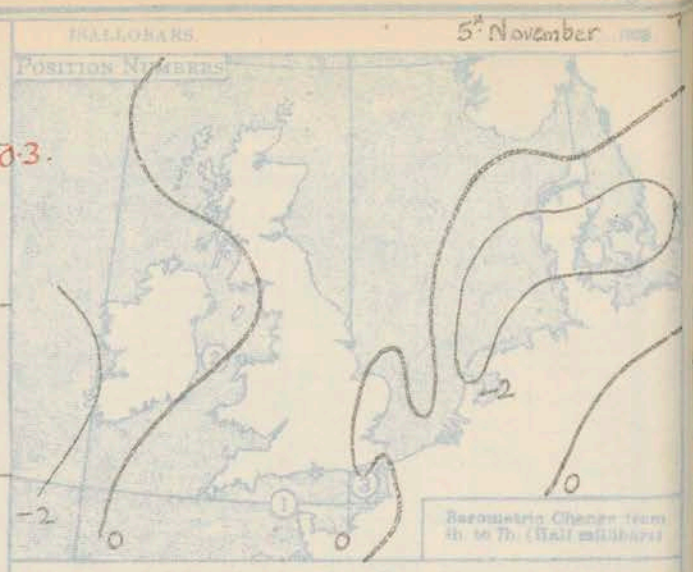
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Tr. = 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. 4th	Weather. 18h.-18h. 4th	Weather. 18h. 4th to 1h. 5th	Weather. 1h.-7h. 5th	Temperatures. Max. Day. 7h.-18h.	Temperatures. Min. Night. 18h.-7h.	Temperatures. Min. on Grass	Rainfall† Day. 7h.-18h. mm.	Rainfall† Day. 7h.-18h. began.	Rainfall† Night. 18h.-7h. m.m.	Rainfall† Night. 18h.-7h. began.	Sun 4th Hours.
Lerwick	c	cip	c	cbc	46	44	•	Tr.	14·30	–	–	~~0·0~~ 0·3
Stornoway	c	cprbc	c	c	48	42	•	1	12·30	–	–	0·0
Wick	circ	cpr	b-bc	pir	50	46	•	1	<8·00	2	1·30	•
Tiree	bcc	c	ck	bc	44	36	23	–	–	–	–	0·7
Nairn	cb	cpl	cpbcx	bc	48	36	•	2	<8·00	0·2	22·00	0·1
Aberdeen	cPRbc	cPR	cprc	c	50	38	31	4	<8·00	0·4	<21·00	1·9
Malin Head	bv	bw	bcbc	bccR	47	35	•	–	–	6	3·30	7·4
Renfrew	cbczo	cmobu	bffx	offx	49	26	20	–	–	–	–	2·7
Edinburgh (Inchkeith)	c	cmomo	b-bc	bccm	48	40	29	–	–	Tr.	3·30	5·8
Leuchars	bcc	cirobc	bbow	bccmw	48	32	28	0·6	11·00	Tr.	–	1·6
Eskdalemuir	cmobc	bccbc	acbx	bxbcc	44	30	25	–	–	–	–	1·1
Tynemouth	bcmo	bcmo	bcff	bcff	48	40	30	–	–	–	–	•
Blacksod Point	bbc	b	c	c	45	41	•	Tr.	–	Tr.	•	•
Donaghadee	bc	bc	bcco	irrr	47	45	•	–	–	6	2·30	•
Birr Castle	crr	crr	crr	cff	44	35	29	1	<8·00	0·5	<21·00	0·0
Holyhead	cm	irm	com	rrb	47	43	41	0·2	13·30	2	24·00	0·0
Liverpool (Bidston)	ofec	ofrdf	ofbc	omw	43	41	39	1	14·30	–	–	0·2
Chester (Sealand)	ffbmcx	ffbmrffb	bmw	omm	41	41	39	0·2	13·30	–	–	0·1
Harrogate	bbccm	commir	oirmf	oFF	46	38	36	Tr.	17·30	0·5	<21·00	4·8
Spurn Head	bc	bcc	cbcpr	cprc	49	46	•	–	–	0·5	24·00	4·2
Birmingham (Edgbaston)	mcuprf	cbff	bff	fF	44	34	31	0·3	9·00	–	–	0·0
Cranwell	cFbc	opre	bF	F	48	33	30	0·3	16·30	–	–	2·2
Gorleston	bcc	c	bcoprc	cfbm	52	44	41	–	–	0·1	<21·00	1·8
Valentia (Cahirciveen)	cbcb	bbc	c	cw	47	36	31	Tr.	–	Tr.	–	4·3
Roches Point	c	c	cbcbw	bbccw	45	34	•	–	–	Tr.	–	•
Pembroke (St. Ann's H.)	cbcmo	bccro	coprcl	cbc	49	44	•	3	9·00	0·3	<21·00	1·1
Ross-on-Wye	ofir	ofefof	fdfofe	ofwrom	43	41	39	2	<8·00	0·4	<21·00	0·0
Leafield	oc	bcw	b	bmx	48	34	30	Tr.	–	Tr.	–	1·4
Winchester (Worthy Dn.)	ocbcmoc	cbcc	cbc	bc	52	35	26	–	–	–	–	3·8
S. Farnborough	ofbbcmc	cbcmo	bcmw	bcwcbm	54	31	24	–	–	Tr.	–	2·7
London (Kew Obsy.)	cfbcmo	bcbf	bfw	afx	53	32	28	Tr.	<8·00	Tr.	–	2·6
Croydon	cbczo	cbczo	bmm	bcbmx	55	33	27	–	–	Tr.	–	3·5
Shoeburyness	cmobcc	ccpc	cm	bcmx	53	34	26	Tr.	15·30	–	–	0·4
Clacton-on-Sea	c	c	cm	cmpc	52	44	40	–	–	–	–	0·6
Felixstowe	crc	cmo	cbcm	bccm	52	40	32	1	<8·00	Tr.	–	0·2
Lympne	crrcro	cbcb	bbc	bcbx	52	40	28	2	<8·00	–	–	2·0
Scilly (St. Mary's)	bccpo	bcpo	bbczpr	bcP	52	43	•	Tr.	11·00	2	24·00	3·2
Falmouth (Pendennis)	bc	bcpr	bc	bc	56	40	•	0·1	14·30	–	–	5·9
Plymouth (Cattewater)	bFe Febcy	bcycv	cvbcprb	bbcprw	57	37	34	–	–	0·2	24·00	7·0
Portland Bill	cbcc	cirov	cir	cbc	53	49	•	1	13·30	3	<21·00	•
Southampton (Calshot)	cmocpr	c	cbcc	cbcm	53	44	41	Tr.	11·00	–	–	3·7
Dungeness	crcc	cbc	bbc	bcbc	55	48	•	1	<8·00	–	–	•
Guernsey	bcrrir	crcro	cprbc	bcicv	50	46	•	4	<8·00	0·2	<21·00	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
3	5 2h	Dieppe	SSE	2	c	50	57	7

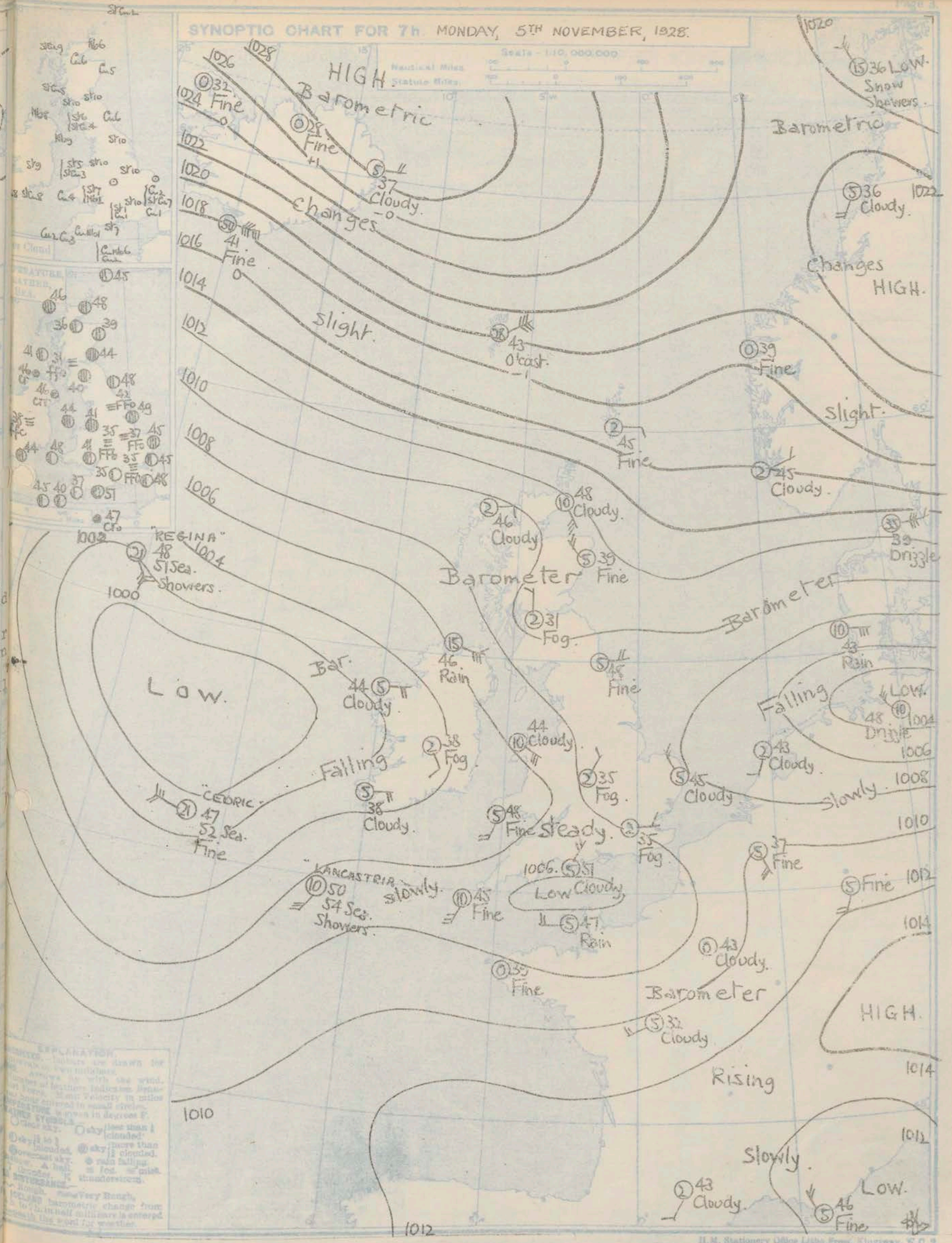
General Inference.

A depression centred over Northern Germany is moving north and increasing in intensity and another westward of Ireland is likely to move southeastwards. A reduction in the intensity of the anticyclone north of Iceland is taking place, consequent upon the development of a depression beyond the Arctic Circle. Winds will be mainly easterly and weather rather unsettled and cold with local rain or showers, except in southern districts where weather today will be mainly fair, apart from local showers.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 5th November, 1928.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind variable to east or southeast, light, mainly fair perhaps local showers, cloudy, some rain tomorrow, some mist or fog, rather low or moderate temperature, ground frost at night.	Easterly winds with rather unsettled cold weather.
5. S.W. England 6. South Wales 7. North Wales	Light variable winds becoming east or southeast, light to moderate, mainly fair today, some rain or showers probable tomorrow, mist locally, moderate temperature.	
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	Easterly winds light or moderate, mainly cloudy, some showers or local rain, inland mist or fog, rather low or moderate temperature, ground frost at night.	BCR
19. S.E. Ireland 20. S.W. Ireland	Light or moderate variable winds, cloudy, some rain or showers, rather low or moderate temperature, ground frost at night.	

Meteorological Office, Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1005 G.M.T. G. C. Simpson, 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, 5th NOVEMBER.....1928. No. 310..

Stations	Height above M.S.L. in feet	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 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	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 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	54	1014.9	0	E'S	3	c	46	85	8	1500	Cu	7	FSt	9	1016.3	+1	E	1	bc	45	85	8	1500	StCu	4	-	4
Stornoway	30	1009.7	0	NE	2	b	*	*	6	*	*	*	*	10	1005.0	+1	E	1	c	46	92	7	4000	StCu	9	-	9
Wick	81	1010.9	0	ESE	4	c+	47	85	8	1500	CuNb	4	FSt	8	1011.8	0	SE	3	c/r	48	85	8	1500	Nb	6	ASt	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.2	0	E'S	2	bc	41	85	8	1500	StCu	5	-	5
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.4	*	-	0	bc	36	85	7	2500	Cu	6	-	6
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.7	+1	NW	2	bc	39	92	6	2500	Cu	5	ACu	6
Malin Head	51	1008.1	0	SW	2	bc+	38	97	8	5700	StCu	5	FCu	6	1006.4	-1	ESE	4	cr	46	97	6	4000	Nb	8	ASt	10
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	0	N	1	ffo	31	97	2	800	St	10	-	10
Edinburgh (Inchkeith)	190	1009.8	+1	SSE	2	bc	41	92	8	1500	St	2	FCu	4	1010.6	+1	SSE	2	o	44	85	7	800	St	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.5	+1	E	1	o	39	97	6	4000	StCu	8	ASt	10
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.3	0	NE	2	c	40	92	7	800	St	10	-	10
Tynemouth	87	1010.2	0	W	1	fbc	41	92	3	1500	Cu	6	-	6	1009.5	0	E	2	bcf	48	92	8	1500	Cu	6	-	6
Blacksod Point	18	1005.8	-1	E	3	c	43	85	6	-	-	0	FSt	8	1004.6 (red, over struck value)	-1	E	2	c	44	85	7	*	-	0	ASt	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	-1	SSE	4	crr	46	85	6	1500	Nb	9	-	9
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	*	SE	1	ffc	38	97	3	450	St	9	-	9
Holyhead	26	1006.4	0	E'S	3	or	44	85	5	4000	St	10	-	10	1006.5	0	ESE	3	o	44	85	8	4000	St	8	-	8
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	0	E	3	o	41	97	5	1500	St	10	-	10
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.3	+1	S'E	2	mmo	41	92	4	450	St	10	-	10
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.3	0	-	0	FFo	42	97	1	<150	St	10	-	10
Spurn Head	23	1008.5	0	ESE	2	bc	49	92	7	4000	CuNb	5	-	5	1008.0	0	E	2	c	49	92	6	4000	CuNb	6 (red)	ast (red)	8
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.0	0	NE	1	FFb	35	97	1	-	-	0	-	0
Cranwell	236	1009.6	0	-	0	FFb	37	97	1	-	-	0	-	0	1009.6	0	-	0	FFo	37	97	1	220	St	10	-	10
Gorleston	14	1008.4	0	NW'N	1	c	48	85	5	2500	StCu	9	-	9	1008.2	-1	NNW	2	c	45	92	6	-	-	0	CiCu	8
Valentia (Cahirciveen)	30	1007.5	-1	-	0	c	40	97	9	-	StCu	8	-	8	1003.9	-2	E	2	c	38	92	8	2500	StCu	9	-	9
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.1	0	N	2	c	34 (red)	97	8	2500	StCu	8 (red)	-	8 (red)
Pembroke (St. Ann's H.)	150	1004.2	0	SW	4	c/r	49	75	8	2500	Cu	6	FSt	8	1004.2	+1	SW	2	bc	48	92	8	2500	Cu	4	-	4
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.5	0	NE	1	mmc	41	97	4	2500	St	9	-	9
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.1	0	NE	2	b	35	92	5	5700	StCu	2	-	2
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	0	-	0	bc	35	97	7	5700	StCu	5	-	5
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	0	E	1	mmb	35	97	4	5700	Cu	2	-	2
London (Kew Obsy.)	18	*	*	*	*	*	39	*	*	*	*	*	*	*	1008.3	+1	E'S	1	FFb	35	97	0	<150	St	10	-	10
Croydon	244	1008.4	-1	SE	1	b	40	85	6	-	-	0	-	0	1008.4	0	ESE	1	b	34	97	6	4000	StCu	<1	ACu	1
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.3	-1	-	0	bc	38	97	5	5700	Cu	1	ACu	6
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.1	-1	NNE	2	bc	45	92	6	4000	Nb	3	ACu	5
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.3	0	NNW	X1 (red) 2	c	43	97	5	4000	StCu	9	-	9
Lympne	350	1008.1	-1	SE'S	2	bc	45	75	7	4000	StCu	6	ACu	7	1008.1	+1	EN	2	bc	41	85	7	2500	StCu	2	Cu	4
Scilly (St. Mary's)	163	1008.0	0	SW'S	3	bc	46	85	8	4000	CuNb	3	-	3	1007.6	0	SSW	3	bc	45	92	9	4000	Cu	2	CiCu	5
Falmouth (Pendennis)	200	1006.6	0	-	2	bc	44	92	8	4000	CuNb	3	ACu	4	1006.4	0	N	1	bc	40	97	8	4000	Cu	3	ACu	6
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.2	0	ENE	2	b	37	97	8	2500	CuNb	1	-	1
Portland Bill	32	1005.5	0	SE	1	cr	51	75	8	1500	St	7	FSt	10	1006.3	+1	N'E	2	c	51	85	8	1500	St	7	ACu	9
Southampton (Calshot)	10	1006.6	-1	SE'S	4	c	51	75	7	4000	StCu	8	-	8	1008.6	0	ENE	3	bc	45	85	6	2500	StCu	4	ACu	6
Dungeness	20	1006.8 (red, in margin; printed value struck)	0	SSE	2	bc+	50	65	8	4000	StCu	6	-	6	1007.4	-1	SE	2	bc	48	75	8	2500	Cu	1	CiCu	4
Guernsey (Fort George) P	295	1006.8	+2	WNW	2	bc/rc	47	92	5	2500	Nb	6	-	6	1007.7	+1	W	2	cr	47	92	9	1500	CuNb	8	-	8

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 3rd to 9h. 4th (4) °F	Temperature Max. 9h.-17h. 4th (5) °F	Rainfall Night 17h.-9h. 3rd-4th (6) mm.	Rainfall Day 9h.-17h. 4th (7) mm.	Sunshine Sunrise to Sunset 4th (8) hr.
Berwick-on-Tweed	bc	bc	41	49	14 (red)	-	3.6
Douglas (I. o. M.)	xbc	bc	33	46	-	-	5.8
Llandudno	c	odo	34	45	-	Trace	0.1
Colwyn Bay	bzcgzc	czcbz	31	54	-	-	0.0
Rhyl	Do	dbo	29	52	-	0.2	0.0
Wallasey	Ff	fff	32	44	-	1	0.0
Southport	xfoc	bccofo	*29	44	-	Trace	1.3
Blackpool	cbc	bcc	30	45	-	-	3.3
Ilkley	xb	bcc	24	42	-	-	1.6
Cleethorpes	fc	bc	30	49	-	-	3.1
Skegness	bc oc	bcc	34	51	Trace	-	2.9
Aberystwyth	cpro	q	39	48	1	-	0.0
Bath	mc	bcbpo	41	50	4	Trace	2.0
Cheltenham§	om	bcm	35	48	1	-	0.2
Leamington Spa	omrc	cb	29	47	1	1	1.2
Lowestoft	bcdo	bcc	38	52	Trace	Trace	1.7
Harwich & Dovercourt	roc	bc	38	53	3	-	0.2
Maldon	c	c	39	52	-	-	0.2
Southend	c	c	40	57	0.1	-	0.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	wbc	bc	40	45	-	-	7.0
Penzance	crbc	cbcpr	39	53	-	3	2.5
Paignton	bcbcm	bccg	42	53	2	-	5.6
Torquay	bcmz	bcgy	44	56	1	-	[illegible]
Jersey	cg	bcd	47	50	0.7	2	0.0
Weymouth	bbcpo	cboc	43	56	5	0.4	3.5
Bournemouth	fbco	bccr	41	52	6	2	2.5
Ventnor	cb	bbcm	42	56	3	0.3	2.4
Portsmouth (S'thsea)	cbc	bcc	43	55	1	-	1.8
Bognor	cebc	bc	44	54	1	-	4.1
Littlehampton	bc	bc	44	54	1	-	6.0
Worthing	bc	bcc	45	55	1	-	5.6
Brighton	bcebc	bccdc	45	55	1	Trace	3.6
Eastbourne§	mcbc	bcb	44	57	5	-	[illegible]
Hastings‖	cmbcc	cbcb	44	55	[illegible]	-	5.1
Folkestone	oirmc	cbc	47	55	7	1	2.1
Dover	ucbc	bcbcm	48	54	2	0.1	0.9
Tunbridge Wells	bcopo	cbc	43	54	6	2	3.7
Ramsgate	c	cbc	47	54	1	-	0.[illegible]
Margate	c	bcc	47	54	Trace	-	0.1
Deal	o	bcopo	47	54	5	1	1.6

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. and, at Guernsey, the sunshine readings are 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. ‖ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24456 Tuesday. 6th November 1928.

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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1016·4	-1	E	2	c	47	75	8	1500	St.Cu.	8	-	8	•
Stornoway	1010·6	+1	ESE	2	b-	49	85	8	4000	Cu.	2	-	2	•
Wick	1013·2	+2	SE	2	c	50	75	8	1500	Cu.Nb.	8	C.St.	10	•
Tiree	1008·2	0	ESE	5	c+	48	75	6	1500	St.Cu.	10	-	10	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1012·5	0	E	2	c	48	75	7	2500	Cu.	1	A.Cu.	8	2
Malin Head	1006·3	+1	ESE	3	cr₀	47	97	7	4000	Cu.Nb.	8	A.Cu.	9	•
Renfrew	1009·9	0	ENE	3	c	46	85	5	1500	St.	6	A.St.	10	2
Edinburgh (Inchkeith)	1011·2	+1	E	3	bcv	48	85	9	4000	Cu.	3	A.Cu.	7	•
Leuchars	1011·5	+1	E	3	bc-	48	85	8	4000	St.Cu.	4	A.Cu.	6	2
Eskdalemuir	1009·6	0	NE	3	c	44	92	7	1500	St.Cu.	9	-	9	2
Tynemouth	1010·4	0	E	2	bc	49	85	8	1500	Cu.	2	A.Cu.	3	•
Blacksod Point	1003·6	-1	ESE	2	bc	47	75	8	•	Cu.	7	-	7	•
Donaghadee	1007·5	+1	SSW	3	bc/pr₀	50	75	8	2500	Cu.Nb.	7	-	7	•
Birr Castle	1004·4	•	SSE	1	c-	44	85	6	1500	Cu.	8	-	8	•
Holyhead	1007·1	+1	SE	4	b-	51	75	8	2500	Cu.	2	A.Cu.	2	1
Liverpool (Bidston)	1008·4	+1	EN	3	bc-	46	85	5	5700	St.Cu.	7	-	7	•
Chester (Sealand)	1008·1	0	SW	2	mmbc	45	85	4	4000	St.Cu.	5	C.	7	1
Harrogate	1009·6	0	SSE	1	cr₀	45	97	3	<150	Nb.	9	-	9	•
Spurn Head	1008·7	0	NE	3	bc	51	85	7	4000	Cu.Nb.	4	A.Cu.	6	•
Birmingham (Edgbaston)	1008·9	0	ESE	1	ffbc	44	85	2	-	-	0	A.Cu.	7	2
Cranwell	1009·5	0	NNW	1	ffo	45	97	2	<150	St.	10	-	10	1
Gorleston	1008·1	0	NNE	2	bc+	55	85	6	2500	Cu.	5	-	5	•
Valentia (Cahirciveen)	1002·6	-2	SE	3	c	50	65	8	2500	St.Cu.	8	-	8	0
Roches Point	1004·9	0	SW	2	bc	50	75	8	2500	Cu.	1	A.Cu.	4	•
Pembroke (St. Ann's H.)	1005·8	0	SE	3	bc+	51	75	8	1500	Cu.	7	-	7	•
Ross-on-Wye	1008·5	0	W	1	od₀	44	92	4	800	Nb.	10	-	10	2
Leafield	1008·0	+1	SE	2	c	48	75	6	7000	St.Cu.	8	-	8	5
Winchester (Worthy Dn.)	1008·0	0	EN	1	c	51	65	7	5700	St.Cu.	7	A.St.	9	1
S. Farnborough	1008·1	-1	E	1	c+	52	65	6	-	-	0	A.Cu.	8	0
London (Kew Obsy.)	1008·2	-1	EN	1	bc/f	49	65	5	2500	Cu.	1	A.Cu.	3	1
Croydon	1008·3	-1	E	2	b+	53	65	6	4000	Cu.	1	C.	2	2
Shoeburyness	1008·5	0	NNE	1	bc+	57	75	8	4000	Cu.	3	-	3	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1008·5	0	-	0	bc	52	75	7	4000	Cu.	1	C.	4	1
Lympne	1007·8	-1	EN	1	b+	56	55	8	5700	Cu.	1	C.St.	2	1
Scilly (St. Mary's)	1006·9	-1	SE	3	bcv	53	75	9	4000	Cu.	2	C.Cu.	6	•
Falmouth (Pendennis)	1006·1	-1	S	2	bc-	52	75	8	4000	Cu.Nb.	4	A.Cu.	7	•
Plymouth (Cattewater)	1007·3	-1	ESE	2	c/PR	50	92	8	2500	Cu.Nb.	9	C.	9	2
Portland Bill	1007·4	+1	-	0	bc	54	65	8	2500	Cu.Nb.	2	C.	5	•
Southampton (Calshot)	1007·9	0	ENE	2	bc-	53	75	7	4000	St.Cu.	5	-	5	0
Dungeness	1008·3	+1	-	0	bc-	53	75	7	2500	Cu.	2	C.Cu.	3	•
Guernsey (Fort George)	1008·5	0	W	2	bcv	52	65	9	2500	Cu.	5	C.	6	•

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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1016·5	+2	NE	3	c	46	75	8	1500	St.Cu.	9	-	9	•
Stornoway	1011·6	+2	ESE	2	bc-	47	85	7	4000	St.Cu.	6	-	6	•
Wick	1013·6	+1	SE	3	bc	48	92	8	1500	Nb.	4	-	4	3
Tiree	1008·6	0	SE	5	c	48	85	6	1500	St.Cu.	10	-	10	3
Nairn	1012·8	•	E	1	bc+	40	85	7	2500	Cu.Nb.	7	-	7	•
Aberdeen	1013·0	+1	ESE	3	c/r	47	92	7	2500	Cu.Nb.	5	A.Cu.	10	1
Malin Head	1007·3	+2	E	3	bc	43	97	8	5700	St.Cu.	3	-	3	1
Renfrew	1010·8	+2	E	4	c	46	85	5	1500	St.Cu.	10	-	10	•
Edinburgh (Inchkeith)	1010·6	0	E	3	bc	45	85	8	-	-	0	A.Cu.	5	1
Leuchars	1011·8	+1	E	2	c	43	92	8	2500	St.Cu.	8	-	8	1
Eskdalemuir	1011·0	+2	ENE	4	bc-	41	85	7	1500	St.Cu.	2	C.	3	•
Tynemouth	1011·0	+1	ENE	1	c+	46	92	7	1500	St.	8	-	8	2
Blacksod Point	1003·4	0	ESE	3	c	46	85	7	•	-	0	A.St.	9	4
Donaghadee	1008·6	+2	S	3	c/PR	46	85	7	2500	Nb.	8	-	8	3
Birr Castle	1005·1	•	ESE	1	c	41	85	7	2500	St.Cu.	7	C.Cu.	8	•
Holyhead	1008·1	+1	SEE	2	b	46	85	6	4000	Cu.	1	-	1	1
Liverpool (Bidston)	1009·0	+1	E'S	2	b-	45	85	5	5700	St.Cu.	2	-	2	•
Chester (Sealand)	1008·8	+2	SSE	2	mmb	39	92	4	2500	Cu.	2	-	2	•
Harrogate	1010·3	0	SSE	1	mmo	45	97	4	<150	St.	10	-	10	•
Spurn Head	1008·8	0	NNE	2	bc-	46	97	7	4000	Cu.Nb.	4	-	4	2
Birmingham (Edgbaston)	1009·8	+1	NE	2	FBr	42	97	1	-	-	0	-	0	•
Cranwell	1010·1	+2	-	0	ffo	44	97	2	400	St.	10	-	10	•
Gorleston	1008·3	0	NW'N	1	b-	47	85	5	2500	St.	2	-	2	0
Valentia (Cahirciveen)	1001·2	-1	SE	4	bc	49	85	8	1500	St.Cu.	5	-	5	0
Roches Point	1004·0	0	SW	3	c/pr₀	50	85	8	1500	Cu.Nb.	9	-	9	0
Pembroke (St. Ann's H.)	1005·7	+1	E	2	c	48	92	8	800	Cu.Nb.	8	-	8	2
Ross-on-Wye	1009·1	+1	-	0	For	40	97	0	<150	St.	10	-	10	•
Leafield	1009·2	+1	E'N	2	bc-	43	85	6	4000	St.Cu.	3	C.	4	•
Winchester (Worthy Dn.)	1008·8	+1	-	0	c	47	85	6	5700	St.Cu.	10	-	10	•
S. Farnborough	1009·0	+2	-	0	b	41	92	5	5700	St.Cu.	2	-	2	•
London (Kew Obsy.)	1009·2	+2	-	0	ffo	43	92	3	800	St.	10	-	10	•
Croydon	1009·3	+2	S	1	fbr	41	92	3	-	-	0	-	0	•
Shoeburyness	1009·0	0	-	0	b	42	92	6	-	-	0	-	0	•
Clacton-on-Sea	1008·9	0	NNW	1	b	46	85	6	4000	Cu.	2	-	2	1
Felixstowe	1009·2	+2	-	0	b	45	92	6	-	-	0	-	0	0
Lympne	1009·3	+2	SE	1	b	43	85	6	-	-	0	C.	1	•
Scilly (St. Mary's)	1006·7	0	SE	3	bcv	50	85	9	4000	Cu.	3	-	3	1
Falmouth (Pendennis)	1005·7	0	S	2	bc	51	85	7	4000	Cu.Nb.	6	-	6	0
Plymouth (Cattewater)	1007·1	0	S	3	c/r	50	85	8	4000	Cu.Nb.	9	A.Cu.	9	0
Portland Bill	1007·6	0	-	0	c+	48	75	8	2500	St.Cu.	3	C.	9	0
Southampton (Calshot)	1008·9	+2	-	0	c	50	85	6	5700	St.Cu.	8	C.	9	0
Dungeness	1009·1	+1	-	0	bc-	49	75	8	1500	Cu.	3	-	3	1
Guernsey (Fort George)	1008·7	+1	S	2	b-	50	65	8	2500	Cu.	1	C.	2	1

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

Station	Heights above M.S.L. in feet.	Weather (24 hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day. °F.	Min. Night. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Night.†	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. % Yesterday.	9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	ffmoc	bcof	offw	50	33	30	Tr.	Tr.	2·9	•	•	0
Croydon	244	bcmffz	bbcz₀ z	offwoffo	56	31	29	-	Tr.	7·8	•	•	0
Greenwich (Royal Obsy.)	149	bfo	bf	bcbcof	53	34	25	-	Tr.	5·4	67	100	0
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·5	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	53	35	33	-	-	2·5	71	91	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0·9	•	•	•
Camden Square	110	xbf	fbf	•	47	32	-	-	-	-	•	93	•
Kensington Palace	80	orf	bcmof	•	53	34	29	-	-	•	(At 18h) 92	91	•
Hampstead Observatory	460	•	•	•	49	28	25	Tr.	Tr.	3·3	•	99	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
4·0	10h. 5th	0·3	7h. 6th

Kew Observatory Max.	Time.	Min.	Time.
2·0	11h. 5th	0·4	12h. 5th

Pole Star Record at Greenwich Obsy.

Exposure from 5 17 h. 30 m. to 6 6 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12·30	3·30	29
δ Ursae Minoris	12·30	1·24	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 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 November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.0 7.2	11.37 11.37	16.13 16.11
Greenwich	7.4 7.6	11.44 11.44	16.23 16.21
Wick	7.42 7.44	11.56 11.56	16.10 16.7
Valentia	7.46 7.48	12.25 12.25	17.3 17.1

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.

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

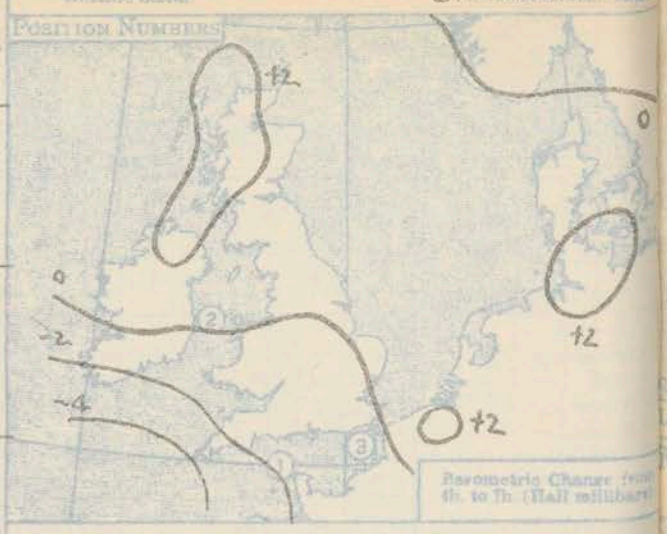
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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 18h.	Weather 18h.-7h.	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 Hours.
Lerwick	bcc	c	bcc	c	48	43	•	-	-	-	-	0.0
Stornoway	b-bc	c	b,bc	c	49	42	•	-	-	-	-	5.2
Wick	c	c	cbroc	c	50	46	•	-	-	0.1	21.00	•
Tiree	bcc	0	cbc	cbc	49	44	39	-	-	-	-	0.0
Kadrn	bc	bc	bccw	c	46	39	•	-	-	-	-	2.3
Aberdeen	cwz,c	cir	circ	cpr	48	43	40	0.5	15.30	0.6	21.00	0.0
Malin Head	cir,	cbcw	bcpwbx	bbcz,	47	39	•	1	18.00	-	-	0.9
Renfrew	pffcz,	cz,	cbcbnz,	bbcnm,	47	32	26	-	-	Tr.	-	0.0
Edinburgh (Inchkeith)	cbc	b-bc	bcprc	ocd,	51	44	33	-	-	0.2	22.00	1.6
Leuchars	c	bc, c	cp,ir,	cir,	50	42	39	-	-	1	21.00	0.6
Eskdalemuir	ocirc	cbc	bcbw	bwcdm,	45	34	30	2	9.00	0.4	2.30	0.0
Tynemouth	bc	bc	oir	oir,	50	46	42	-	-	2	21.00	•
Blacksod Point	c	c	cb	bc	48	41	•	-	•	-	•	•
Donaghadee	cirbc	bcpir,	prbc	bccbc	51	45	•	5	18.00	2	21.00	•
Birr Castle	ffc	c	c	cbpr,	45	39	27	-	-	0.1	5.30	1.5
Holyhead	cbcr,bc	bcb	bbwm,	bm,	51	41	36	0.1	11.00	-	-	6.5
Liverpool (Bidston)	ocmm,	bccm,	bnwf	ofc	46	36	34	-	-	-	-	0.8
Chester (Sealand)	cmm	cbcbmp,	bmf	ofF	46	31	28	Tr.	14.30	-	-	0.4
Harrogate	offiR,	coffmm	ombm	off	46	37	30	2	11.00	-	-	0.0
Spurn Head	cprbc	bc	cprbc	cprc	52	44	•	Tr.	11.00	0.6	22.00	3.8
Birmingham (Edgbaston)	bcff	bcfF	FF	Ff	47	36	31	-	-	-	-	0.0
Cranwell	bfof	frdmf	bcf	bF	45	36	32	0.2	16.30	-	-	0.0
Gorleston	cm,bc	bcm,	bcmFfe	bcFfe	45	33	32	-	-	0.1	-	3.4
Valentia (Cahirciveen)	cbcc	ccdbc	bcp,	cp,	51	48	44	0.2	13.30	0.3	21.00	2.9
Roches Point	cbc	bcrp,c	cbc	bcc	52	49	•	0.1	13.30	-	-	•
Pembroke (St. Ann's H.)	bcp,	bccp,	cbcq	bcb	52	45	•	1	11.00	-	-	5.0
Ross-on-Wye	ormom	cmof	FFe	FFe	45	33	34	1	9.00	0.1	22.00	0.1
Leafield	bbc	bc	bw	bFe	51	31	29	Tr.	-	0.1	-	3.6
Winchester (Worthy Down)	bcm,c	c	cm,bm	bmoFf	52	32	28	-	-	-	-	3.5
A. Farnborough	pfbcm,	cbcm,	bm,bm	bmof	53	31	27	-	-	Tr.	-	3.6
London (Kew Obsy.)	ofxbc	bcof	offw	offw	50	33	30	Tr.	-	Tr.	-	2.9
Croydon	bmfffz,	bbcz,z	bffw	bfofw	56	31	29	-	-	Tr.	-	7.8
Shoeburyness	bcbbc	bcbm,	bm,	offx	56	33	29	-	-	Tr.	-	5.5
Dover	bc	bcbm	bccof	offe	53	36	•	-	-	0.1	1.30	3.9
Felixstowe	czr,c	bccbz,	bz,bcm	cfof	55	38	32	Tr.	11.00	Tr.	-	3.2
Lympne	bbcb	bm,	bm,x	bmxcm	56	34	25	-	-	-	-	8.2
Scilly (St. Mary's)	dc	bc	bc	bccp,	55	49	•	-	-	Tr.	6.30	6.7
Falmouth (Pendennis)	bccpr,	bc	bcPRq	bcq	54	50	•	Tr.	11.00	1	21.00	4.9
Plymouth (Cattewater)	bwcmp	cpr	cpRbc	bcr,	54	46	41	1	9.00	2	21.00	2.4
Portland Bill	cbc	bcc	cbmz	bbc	55	47	•	-	-	-	-	•
Southampton (Calshot)	bcmpr,	bccm,	bcbmwcpmzcbcp	bmzcbcp	54	43	30	0.1	9.00	0.1	14.30	1.5
Dungeness	bjc	bc	bcj,w	bccw	54	44	36	-	-	-	-	•
Guernsey	cir,bcr	bcr	bcbr	bbcrq	54	50	•	Tr.	18.00	-	-	7.2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind Direc.	Wind Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	5th 10h.	SCOTIA	SW	5	cr	48	48	7

GENERAL INFERENCE.

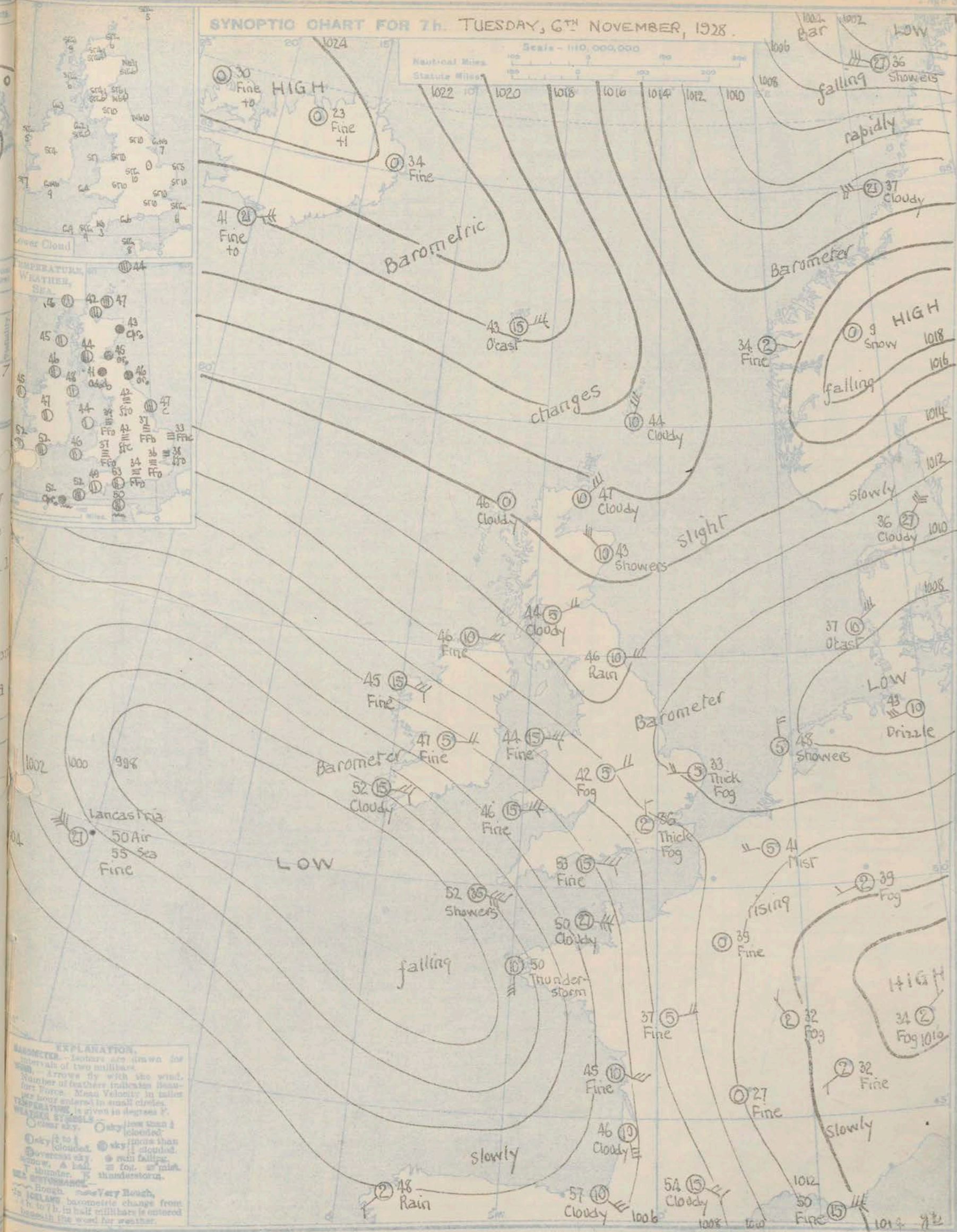
A depression off Southwest Ireland continues to move slowly southeastwards and from an anticyclone over Iceland a wedge of high pressure extends to Scandinavia. Easterly winds will continue with mainly cloudy weather, and occasional rain or showers in northern and south-western districts, but in the eastern half of England conditions will continue mainly fair, apart from fog, persisting locally, and perhaps some coastal drizzle.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 6th November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light variable winds, becoming E. or S.E, mainly fair, but perhaps local coastal drizzle; local fog night and morning, rather low temperature; night frost.	None issued.
5. S.W. England 6. South Wales	E. to S.E. winds, moderate to strong, cloudy, some showers; moderate temperature.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Easterly winds, light to moderate, cloudy, some showers, local mist or fog, rather low temperature; night frost.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland 14. N.W. Scotland 15. Mid-Scotland 16. N.E. Scotland 18. Orkneys and Shetlands	Moderate easterly winds, cloudy, some rain or showers, perhaps sleet or snow showers on high ground, colder; night frost.	SCR
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate E. or S.E. winds, cloudy, some showers, moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1010 G.M.T. G. C. SIMPSON, 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, 6th November.........1928. No. 311.....

Observations at 1h. G.M.T. ....G.W.... | Observations at 7h. G.M.T. ....G.H....

Stations	Height above M.S.L. in feet	1h Barom. at M.S.L. mb.	1h Change in 3 Hours	1h Wind Direc.	1h Wind Force 0-12	1h Weather	1h Temp. °F.	1h Humidity %	1h Visibility 0-9	1h Low Cloud Height Feet	1h Low Cloud Form	1h Low Cloud Amt. 0-10	1h Upper Form	1h 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 0-9	7h Low Cloud Height Feet	7h Low Cloud Form	7h Low Cloud Amt. 0-10	7h Upper Form	7h Total Amt. 0-10	Sea 0-9
Lerwick	54	1016.8	+1	NE	3	c	45	75	8	1500	St.Cu	5	A.St	8	1017.9	+1	N'E	3	c	44	65	8	1500	St.Cu.	5	A.St.	10	•
Stornoway	29	1013.2	+1	ESE	2	b	•	•	8	•	•	•	•	2	1014.0	+2	–	0	c	46	85	7	2500	St.Cu.	9	–	9	0
Wick	81	1015.0	+2	SE	3	c+	48	85	8	1500	Cu.Nb	6	A.St	9	1015.4	0	NE	3	c	47	75	8	2500	St.Cu.	6	A.St.	10	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1012.5	+1	SSE	3	bc	45	92	8	1500	St.Cu.	6	–	6	3
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1014.7	•	E	1	c	42	85	7	1500	St.Cu.	8	–	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1014.9	0	NW	3	c/pr₀	43	97	7	2500	St.Cu.	9	–	9	0
Malin Head	51	1009.6	+1	SSE	3	b	42	97	8	5700	St.Cu	2	–	2	1010.6	+2	ESE	3	bc	46	97	6	4000	Cu.	3	–	3	1
Renfrew	56	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.1	0	ENE	2	c	44	92	5	1500	St.Cu.	10	–	10	•
Edinburgh (Inchkeith)	160	1012.1	+2	E	2	o	45	97	8	1500	St	10	–	10	1013.0	+1	E	2	or₀	45	85	8	1500	St.	10	–	10	0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1014.0	+2	E	1	ar₀	45	85	8	1500	Nb.	8	A.St.	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1012.4	0	NEE	4	od₀d₀	41	97	6	1500	St.	10	–	10	•
Tynemouth	67	1012.0	+1	E	3	or₀	47	85	7	1500	Nb	10	–	10	1012.0	0	E	3	or₀	46	92	7	800	Nb.	10	–	10	4
Blacksod Point	18	1005.2	+1	ESE	3	bc	46	75	7	•	Cu	4	–	4	1006.1	+1	ESE	4	bc	45	85	7	•	St.Cu.	5	–	5	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.6	+1	ESE	3	bc-	48	85	8	2500	St.Cu.	7	–	7	3
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1005.5	•	E	2	bc-	47	85	6	800	St.	4	Ci.Cu.	7	•
Holyhead	28	1008.8	0	E'S	3	b	42	85	6	–	–	0	–	0	1009.0	0	E'S	4	b	44	92	5	4000	St.	1	–	1	1
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.5	0	NE'E	2	FFo	39	97	0	<150	St.	10	–	10	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.9	0	–	0	FFo	39	97	1	<150	St.	10	–	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.5	0	NNW	1	ffo	42	97	3	<150	St.	10	–	10	•
Spurn Head	29	1009.7	0	NW'W	3	bc+	45	97	7	4000	Cu.Nb	6	–	6	1009.5	0	NE	2	c	47	97	6	4000	Cu.Nb.	7	A.St.	9	1
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.6	0	ENE	2	ffo	42	97	3	1500	St.Cu.	10	–	10	•
Cranwell	238	1011.1	+1	NNW	1	ffb	37	97	2	–	–	0	–	0	1011.0	0	W'N	2	FFb	37	97	1	–	–	0	–	0	•
Gorleston	14	1009.8	+1	W'N	2	FFbc	38	97	1	220	St	4	–	4	1009.4	0	W	2	FFbc	33	97	1	220	St.	5	–	5	0
Valentia (Cahirciveen) P	30	1003.7	-1	SE	3	bc/pr₀	49	92	8	•	St	7	–	7	999.5	-2	E'S	4	c	52	75	8	2500	St.	7	A.St.	9	3
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.0	-2	SE	4	c	52	85	8	1500	Cu.Nb.	8	–	8	4
Pembroke (St. Ann's H.)	150	1006.2	-1	SE	4	bc-	51	85	8	1500	St.Cu	6	–	6	1004.9	-1	E	4	bcr	46	92	6	2500	Cu.	4	Ci.St.	6	4
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.8	0	ENE	2	FFo	37	97	1	<150	St.	10	–	10	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.6	0	E	2	FFo	37	97	1	220	St.	10	–	10	•
Winchester (Worthy Dn.)	372	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.2	-1	N'E	2	FFo	36	97	1	<150	St.	10	–	10	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.8	0	NE	1	FFo	34	97	1	<150	St.	10	–	10	•
London (Kew Obsy.)	18	•	•	•	•	•	36	•	•	•	•	•	•	•	1010.2	0	N	1	FFo	36	97	1	<150	St.	10	–	10	•
Croydon	244	1010.1	0	–	0	fb-	34	97	3	–	–	0	–	0	1010.4	0	ENE	2	For	31	97	1	<150	St.	10	–	10	
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.8	0	–	0	FFo	36	97	1	<150	St.	10	–	10	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.4	0	N	1	ffo	38	97	2	1500	St.	10	–	10	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1010.5	0	–	0	FFo	39	97	1	<150	St.	10	–	10	0
Lympne	350	1010.0	+1	NNE	2	b	41	92	6	–	–	0	–	0	1010.0	0	NE	2	bc-	36	97	5	5700	St.Cu.	5	A.Cu.	6	•
Scilly (St. Mary's)	163	1003.9	-3	SE'E	5	b	52	85	9	–	–	0	–	0	999.9	-4	ESE	7	c/pr₀	52	85	8	4000	Cu.	9	–	9	7
Falmouth (Pendennis)	200	1004.4	-1	SE	5	bc-	52	85	7	4000	Cu.Nb	4	–	4	1001.4	-3	SE'E	5	cr	52	85	8	4000	St.Cu	9	–	9	4
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1004.4	-1	E	4	bc/r	49	85	8	1500	Nb.	3	Ci.	3	0
Portland Bill	53	1007.6	0	ESE	3	b	52	65	6	2500	St.Cu	2	–	2	1006.1	-1	ESE	4	bcr	53	75	8	2500	Cu.	6	–	6	1
Southampton (Calshot)	10	1009.1	0	ENE	3	bc-	45	92	6	800	St	4	–	4	1008.4	-1	ENE	3	bc-	45	85	6	2500	St.Cu	6	–	6	0
Dungeness	20	1009.4	0	N	1	bc-	47	97	6	1500	Cu	3	–	3	1009.4	0	SE	3	cr	49	75	7	2500	St.Cu.	6	Ci.St.	8	2
Guernsey (Fort George) P	295	1008.0	-1	ESE	3	b-	50	85	9	–	–	0	–	0	1005.2	-2	ESE	6	c	50	85	8	4000	St.Cu.	8	–	8	6

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 4th to 9h. 5th (4) °F.	Temperature Max. 9h.-17h. 5th (5) °F.	Rainfall† Night 17h.-9h. 4th-5th (6) mm.	Rainfall† Day 9h.-17h. 5th (7) mm.	Sunshine Sunrise to Sunset 5th (8) hr.
Berwick-on-Tweed	c	c	37	50	–	–	2.7
Douglas (I. o. M.)	cp	bc	35	51	10	0.3	2.9
Llandudno	bcb	b	38	53	5	–	6.8
Colwyn Bay	bbcb	b	38	52	5	–	6.6
Rhyl	bc	bcc	36	52	4	–	3.7
Wallasey	fcbcb	bccf	34	48	Trace	–	0.6
Southport	oc	co	38	48	–	–	0.6
Blackpool	cm	com	36	50	–	–	0.5
Ilkley	om	od₀	34	48	1	0.2	0.0
Cleethorpes	cfor	oco	40	49	1	7	0.6
Skegness	cfprb	bcco	39	52	Trace	1	5.0
Aberystwyth	pr bc	bc	42	50	2	–	3.8
Bath	cr₀	cbcb	42	49	2	Trace	1.1
Cheltenham‡	om	om	38	46	–	– (2.2)	[illegible]
Leamington Spa	cb	cbcm	30	52	–	–	5.5
Lowestoft	cbc	bc	43	52	4	–	3.8
Harwich & Dovercourt	wbcm	bcm	41	54	Trace	Trace	2.9
Maldon	mcb	bbc	31	53	–	–	4.3
Southend	cm bc	bf	40	56	–	–	6.6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	wbc	bccbc	41	48	–	–	6.2
Penzance	r₀cb	bcbr₀	39	55	0.5	0.2	4.0
Paignton	pbwm	bbcax	35	53	1	–	5.2
Torquay	pbmw	bccop	41	55	1	Trace	5.1
Jersey	bc	pbc	46	55	2	Trace	5.5
Weymouth	b	b	45	57	3	–	7.2
Bournemouth	c	cf	41	53	4	–	3.0
Ventnor	pcb	b bc	47	53	Trace	–	3.7
Portsmouth (S'thsea)	omr₀	obc	42	54	3	Trace	1.5
Bognor	cid₀	cid₀	42	52	–	0.5	0.3
Littlehampton	bcc	c	42	53	–	–	2.3
Worthing	cdbc	c	45	52	–	Trace	1.0
Brighton	rzb	c	41	55	–	–	2.4
Eastbourne	cbc	bcb	44	55	0.1	–	4.6
Hastings‖	cmbc	bbc	43	55	0.1	–	4.8
Folkestone	xcbz₀	bz₀	42	56	–	–	7.9
Dover	fb	bm	38	55	–	–	8.2
Tunbridge Wells	mbc	bcm	34	54	2	–	6.9
Ramsgate	b	bm	44	55	0.2	–	6.0
Margate	bc	bc	48	53	–	–	6.4
Deal	b	b	37	51	1	–	7.8

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. and, at Guernsey, the sunshine readings are 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. ‖ 22h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24457 Wednesday, 7th November, 1928.

Observations at 13h. 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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	1017.3	-1	N	2	ojp	43	85	8	1500	CuNb	8	-	8	•
Stornoway	1015.1	0	ESE	2	b-	49	85	7	2500	Cu	1	-	1	•
Wick	1016.6	+1	NE	3	c	47	75	8	1500	CuNb	8	ASr	10	•
Tiree	1013.1	+1	SE	5	bcv	50	65	9	2500	Cu	5	-	5	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1015.2	0	NW	1	cjr	45	97	7	1500	Nb	7	ASr	9	2
Malin Head	1011.6	+1	E	5	c	49	92	8	4000	Cu	9	-	9	•
Renfrew	1013.5	-1	E	3	c	47	75	6	2500	StCu	9	-	9	1
Edinburgh (Inchkeith)	1013.7	-1	ESE	3	c	47	75	8	4000	Cu	6	ACu	9	•
Leuchars	1014.5	-1	E	-	c₀	44	85	8	1500	Nb	8	ASr	10	2
Eskdalemuir	1012.9	0	NE	4	c₀	43	85	8	1500	StCu	5	ASr	10	2
Tynemouth	1012.4	0	E	3	ojp	47	75	8	800	Nb	10	-	10	•
Blacksod Point	1006.4	0	ESE	4	bc	51	75	7	-	StCu	5	-	5	•
Donaghadee	1011.0	-1	ESE	4	bc+	48	85	8	2500	Cu	6	-	6	•
Birr Castle	1005.3	•	E	3	bc	51	75	7	2500	Cu	3	CiCu	7	•
Holyhead	1008.3	-1	E	5	b	47	85	6	3500	Cu	1	-	1	1
Liverpool (Bidston)	1010.1	-2	SE'E	2	mmc	44	92	4	4000	St	9	-	9	•
Chester (Sealand)	1009.9	-1	S	1	c+	46	85	5	2500	StCu	3	-	3	1
Harrogate	1011.3	0	E'N	3	cd-	45	92	7	2500	Nb	9	ASr	10	•
Spurn Head	1010.0	0	NE	4	cjpr	49	97	7	4000	CuNb	6	ASr	9	•
Birmingham (Edgbaston)	1010.1	-1	ESE	3	mo-	43	92	4	1500	St	10	-	10	2
Cranwell	1011.0	-1	-	0	ffo	43	97	2	220	St	10	-	10	1
Gorleston	1010.2	-1	NW	2	FFbc	46	97	1	220	St	5	-	5	•
Valentia (Cahirciveen)	999.5	0	E'N	5	c	54	65	8	2500	StCu	5	ASr	9	5
Roches Point	1002.1	0	SE	4	c	52	85	8	1500	StCu	8	-	8	•
Pembroke (St. Ann's H.)	1003.7	-2	E'S	4	bc+	49	85	6	2500	StCu	3	CiCu	7	•
Ross-on-Wye	1008.3	-2	E'N	3	c	46	85	6	2500	Cu	8	-	8	2
Leafield	1008.9	0	E'N	3	c	44	97	6	450	St	9	-	9	2
Winchester (Worthy Dn.)	1008.1	-2	NE	3	fb	46	85	5	4000	StCu	1	-	1	1
S. Farnborough	1009.4	-1	E'N	2	fb-	41	97	2	-	-	0	-	0	5
London (Kew Obsy.)	1009.8	-1	E'N	2	fo-	42	92	2	<150	St	10	-	10	1
Croydon	1010.0	-1	E	3	fo-	43	97	3	220	St	10	-	10	2
Shoeburyness	1010.1	-1	NE	3	cjm	47	97	6	2500	StCu	9	-	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1010.7	0	-	0	fo-	43	97	2	450	St	10	-	10	5
Lympne	1009.5	0	SE'E	3	b	53	65	8	4000	Cu	1	-	1	1
Scilly (St. Mary's)	999.2	0	SE	5	bc	54	85	7	4000	StCu	5	Ci	6	•
Falmouth (Pendennis)	1000.8	-1	SE	6	c	53	85	7	2500	Nb	6	ASr	10	•
Plymouth (Cattewater)	1002.5	-3	ESE	6	c	54	85	8	2500	StCu	8	CiSr	9	2
Portland Bill	1004.3	-1	E	6	bc	55	75	8	2500	Cu	2	Ci	7	•
Southampton (Calshot)	1007.0	-3	ESE	5	bc+	54	65	8	2500	Cu	2	CiSr	3	0
Dungeness	1009.5	-1	SSW	1	bc	54	97	8	2500	Cu	3	ACu	4	•
Guernsey (Fort George)	1004.0	-1	SE	7	rc+	54	75	9	4000	StCu	6	CiSr	8	•

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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-9
Lerwick	1016.3	0	N	2	ojp	42	83	5	1500	CuNb	7	-	8	•
Stornoway	1015.1	0	ESE	2	c+	46	85	3	2500	StCu	8	-	8	1
Wick	1015.7	+1	NE	3	cjr	44	85	8	1500	CuNb	4	CiSr	8	1
Tiree	1013.0	0	SE	3	bcv	46	85	9	2500	Cu	6	-	6	3
Nairn	1015.0	•	E	1	c	40	92	8	2500	StCu	8	-	8	•
Aberdeen	1015.0	0	N	2	c	42	85	8	2500	StCu	8	-	8	1
Malin Head	1011.2	0	E	5	c-	49	92	8	5000	StCu	8	-	8	4
Renfrew	1013.2	0	ENE	4	c	44	97	5	2500	St	10	-	10	•
Edinburgh (Inchkeith)	1014.4	0	ESE	2	bc	45	85	8	1500	St	4	ASr	7	1
Leuchars	1014.2	-1	E	1	or+	44	92	8	1500	Nb	10	-	10	•
Eskdalemuir	1012.6	0	NE	4	c	40	85	8	4000	StCu	9	-	9	•
Tynemouth	1012.4	0	E	3	ojp	46	85	7	800	Nb	10	-	10	4
Blacksod Point	1006.8	+1	ESE	4	bc	48	75	7	•	Cu	4	-	4	4
Donaghadee	1011.0	0	ESE	4	c+	48	85	8	2500	Cu	8	-	8	4
Birr Castle	1005.4	•	E	4	bc	46	92	6	450	St	5	CiCu	7	•
Holyhead	1007.7	0	E	5	fob	46	85	5	-	-	0	Ci	1	3
Liverpool (Bidston)	1009.1	0	E	3	fo+	45	85	3	<150	St	10	-	10	•
Chester (Sealand)	1009.1	0	SE	1	b	36	97	4	-	-	0	-	0	•
Harrogate	1010.9	0	ENE	2	ojd	44	92	5	2500	St	10	-	10	•
Spurn Head	1009.7	0	E	4	cr	48	97	7	4000	CuNb	9	-	9	3
Birmingham (Edgbaston)	1009.5	-1	ENE	3	o	43	85	5	1500	St	10	-	10	•
Cranwell	1010.7	-1	-	0	ffo	40	97	2	<150	St	10	-	10	•
Gorleston	1009.9	0	-	0	FFbc	39	97	1	220	St	4	-	4	0
Valentia (Cahirciveen)	1000.7	+2	E'N	4	cjpr₀	51	85	7	2500	St	7	ASr	10	1
Roches Point	1002.0	+1	SE	4	crr	51	97	7	800	Nb	9	-	9	6
Pembroke (St. Ann's H.)	1003.8	+1	E'S	4	bc	48	75	6	2500	StCu	3	ACu	7	3
Ross-on-Wye	1007.7	-1	E'N	3	o	44	85	5	1500	St	10	-	10	•
Leafield	1008.4	-1	ENE	4	fo+	41	97	2	220	St	10	-	10	•
Winchester (Worthy Dn.)	1007.7	0	NE	3	ffo	43	97	2	<150	St	10	-	10	•
S. Farnborough	1008.2	0	E'N	4	mc-	44	97	4	1500	St	9	-	9	•
London (Kew Obsy.)	1008.9	-1	E'N	3	mc-	46	92	4	1500	St	10	-	10	•
Croydon	1008.6	-1	E'S	3	c	45	97	5	450	St	9	-	9	•
Shoeburyness	1009.3	0	NNE	2	b	46	97	6	1500	StCu	2	-	2	2
Clacton-on-Sea	1010.7	-1	NNE	1	ffo	44	97	2	1500	St	10	-	10	2
Felixstowe	1010.2	0	NNE	1	fb-	41	97	2	-	-	0	-	0	2
Lympne	1008.5	-1	NE'E	3	b	45	85	7	-	-	0	CiCu	2	•
Scilly (St. Mary's)	1000.4	+1	S'E	2	crr₀	49	97	8	4000	StCu	8	-	8	2
Falmouth (Pendennis)	1000.8	0	SE	4	cr₀	53	85	7	2500	Nb	6	ASr	10	2
Plymouth (Cattewater)	1002.5	0	SE	3	orr₀	52	92	7	1500	Nb	10	-	10	1
Portland Bill	1002.8	-1	E	6	c	55	75	8	2500	StCu	10	-	10	6
Southampton (Calshot)	1006.6	+1	E	5	bc	50	85	6	4000	StCu	2	Ci	7	3
Dungeness	1007.9	-3	SE	3	bc+	52	65	8	2500	Cu	3	ACu	5	2
Guernsey (Fort George)	1003.3	0	SE	7	cr	52	85	8	2500	StCu	7	ASr	10	6

LONDON OBSERVATIONS. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 8h-21h, other stations.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 13h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
(24 Hours ended 9h.)													
Kew	18	oFw	ofom	omcebd	46	39	34	Tr	-	0.0	*	*	3
Croydon	244	fefoff	offom	offfe	45	40	39	Tr	Tr	0.0	*	*	3
Greenwich (Royal Obsy.)	159	oF	oF	ofdFow	45	38	33	-	Tr	0.0	96	95	3
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	-
Westminster (St. James' Pk.)	37	*	*	*	46	37	36	-	-	0.0	91	91	*
Regent's Pk. (Botanic Gdns.)	162	f°	f°	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	bf	of	*	43	38	*	-	-	*	*	98	*
Kensington Palace	80			*	45	38	34	-	-	*	(At 18h 182)	92	*
Hampstead Observatory	450	*	*	*	43	36	31	0.1	Tr	0.0	*	89	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
2.0	12h6a	<0.3	4h7p

Kew Observatory			
Max.	Time.	Min.	Time.
1.8	12h6p	0.2	3h7p

POLE STAR RECORD at Greenwich Obsy.

Exposure from 6th 17 h. 30 m. to 7th 6 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12-30	NIL	0
δ Ursae Minoris	12.30	NIL	0

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.

7th & 8th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7-02 7-04	11-37 11-37	16-11 16-09
Greenwich	7-06 7-07	11-44 11-44	16-21 16-20
Wick	7-45 7-47	11-56 11-56	16-07 16-05
Valentia	7-48 7-50	12-45 12-45	17-01 16-59

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.
lp 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:—m/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 33 feet above the ground.

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

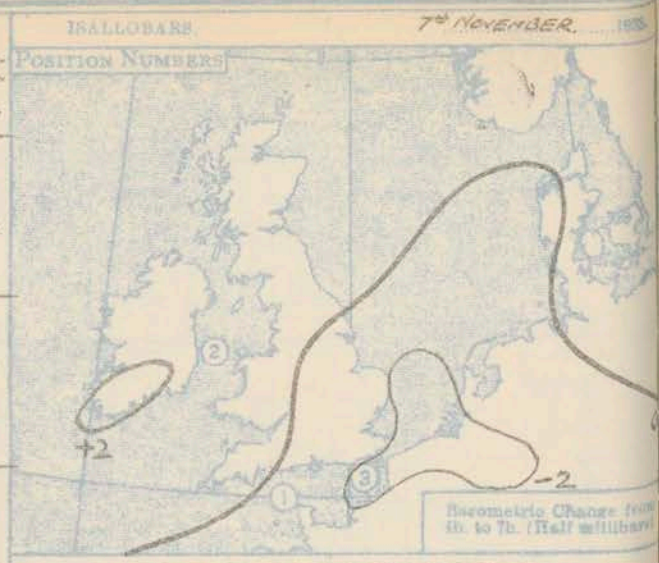
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent 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. 6th	Weather. 13h.-18h. 6th	Weather. 18h. 6th to 1h. 7th	Weather. 1h.-7h. 7th	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 6th Hours.
Lerwick	cbpr	cbpr bc	bcbpr	bccbpr	49	37	•	06	9.00	1	3.30	1.1
Stornoway	bbc	c	bbc	bbc	49	36	•	–	–	–	–	5.0
Wick	c	pbc	cbr	cbr	48	40	•	0.5	6.30	3	22.00	•
Tiree	bc	bc	pbc	c	50	42	36	–	–	Tr.	22.00	3.8
Nairn	cpr	c	cpr	c	46	36	•	1	11.00	0.1	<21.00	0.7
Aberdeen	cmbrcrr	cbcc	c	c	47	39	36	2	9.00	–	–	0.5
Malin Head	bcce	ce	cbcebce	bcce	49	47	•	–	–	–	–	2.1
Renfrew	cm3	c3	cm	cm	47	40	36	–	–	–	–	0.0
Edinburgh (Inchkeith)	ibc	cbc	bccourr	oirrrr	47	41	40	Tr.	<8.00	4	22.00	0.2
Leuchars	ibrir	crRc	rirc	c	46	40	37	8	<8.00	3	<21.00	0.0
Eskdalemuir	oidmc	c	cbe	bcc	43	35	32	0.1	<8.00	–	–	0.0
Tynemouth	oir	oir	o	obc	47	44	35	0.3	<8.00	–	–	•
Blacksod Point	bc	bcb	b	b	57	45	•	–	•	–	•	•
Donaghadee	bccbc	bcc	bcc	c	49	46	•	–	–	–	–	•
Birr Castle	bc	bcm	bccm	cm	51	32	25	–	–	–	–	3.5
Holyhead	bm	bm	bm	bbcm	49	44	41	–	–	–	–	7.6
Liverpool (Bidston)	Febm	cmbf	cmofe	ofe	45	36	34	–	–	0.1	–	1.9
Chester (Sealand)	oF bmm	cbcbmm	bbcmfx	cmf	47	32	28	–	–	–	–	1.4
Harrogate	ofocdd	coid	coid	commir	45	43	42	0.5	<8.00	1	<21.00	0.0
Spurn Head	cpr	cpr	cprc	bccprc	50	47	•	4	<8.00	1	<21.00	0.6
Birmingham (Edgbaston)	ofm	mco	omf	fF	43	36	36	–	–	–	–	0.0
Cranwell	oFofe	omgf	of	ofcm	44	37	38	Tr.	–	–	–	0.0
Gorleston	bcFfe	bcFfe	oFfe	oFfex	46	32	31	0.1	–	0.2	–	0.0
Valentia (Cahirciveen)	c	cp	cpbc	c	54	47	45	0.1	1330	0.1	<21.00	0.0
Roches Point	c	crr	crcir	circ	53	48	•	4	1530	7	<21.00	•
Pembroke (St. Ann's H.)	bbc	bcm	ombp	cbcc	51	43	•	–	–	Tr.	2400	3.2
Ross-on-Wye	reofcm	cmo	omcom	om	47	39	39	–	–	–	–	4.9
Leafield	Foc	cofm	Feo	feo	45	38	38	Tr.	–	0.1	–	0.0
Winchester (Worthy Pk.)	offbm	bmof	offb	bom	46	40	34	–	–	Tr.	–	5.7
S. Farnborough	oFbf	bfecmo	cbcmofe	ofe	44	41	40	0.1	–	Tr.	–	0.4
London (Kew Obsy.)	oFw	ofom	om	cmobcf	46	39	34	Tr.	–	–	–	0.0
Croydon	oFeFeff	offcm	cmofe	offFe	45	40	39	Tr.	–	Tr.	–	0.0
Shoeburyness	ofcm	cmbcm	bof	ofcbc	48	37	34	Tr.	–	Tr.	–	0.0
Clacton-on-Sea	ofcbm	bmoff	off	offcbc	46	40	•	–	–	–	–	0.0
Felixstowe	ofe	ofbcbf	pfw	bvbm	45	37	34	Tr.	–	Tr.	–	0.0
Lympne	bccbc	b	bm	bmbc	53	43	37	Tr.	1230	–	–	4.5
Scilly (St. Mary's)	cprbc	bccr	orc	cP	55	48	•	3	<8.00	9	<21.00	2.9
Falmouth (Pendennis)	cr	crq	crq	crq	55	51	•	0.1	<8.00	2	<21.00	0.0
Plymouth (Cattewater)	bccq	cqorq	orbcq	crq	56	49	44	Tr.	1530	1	<21.00	1.2
Portland Bill	bc	bcc	oirorr	occ	55	48	•	–	–	1	<21.00	•
Southampton (Calshot)	bcm	bcm	bcmc	cbcm	54	45	44	Tr.	11.00	–	–	6.1
Dungeness	bbc	bbc	bcb	bbc	54	48	•	–	–	–	–	•
Guernsey	cbcqv	cqir	cirqbc	bcq	55	50	•	1	1530	0.2	<21.00	3.2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force	Weather.	Temp. Air.	Temp. Sea.
2	6th 10h	Scotia	E'N	5	c	50	54
1	6th 12h	St. Helier	ESE	6	bc	55	58
3	7th 2h	Dieppe	SE	4	bc	50	57

GENERAL INFERENCE.

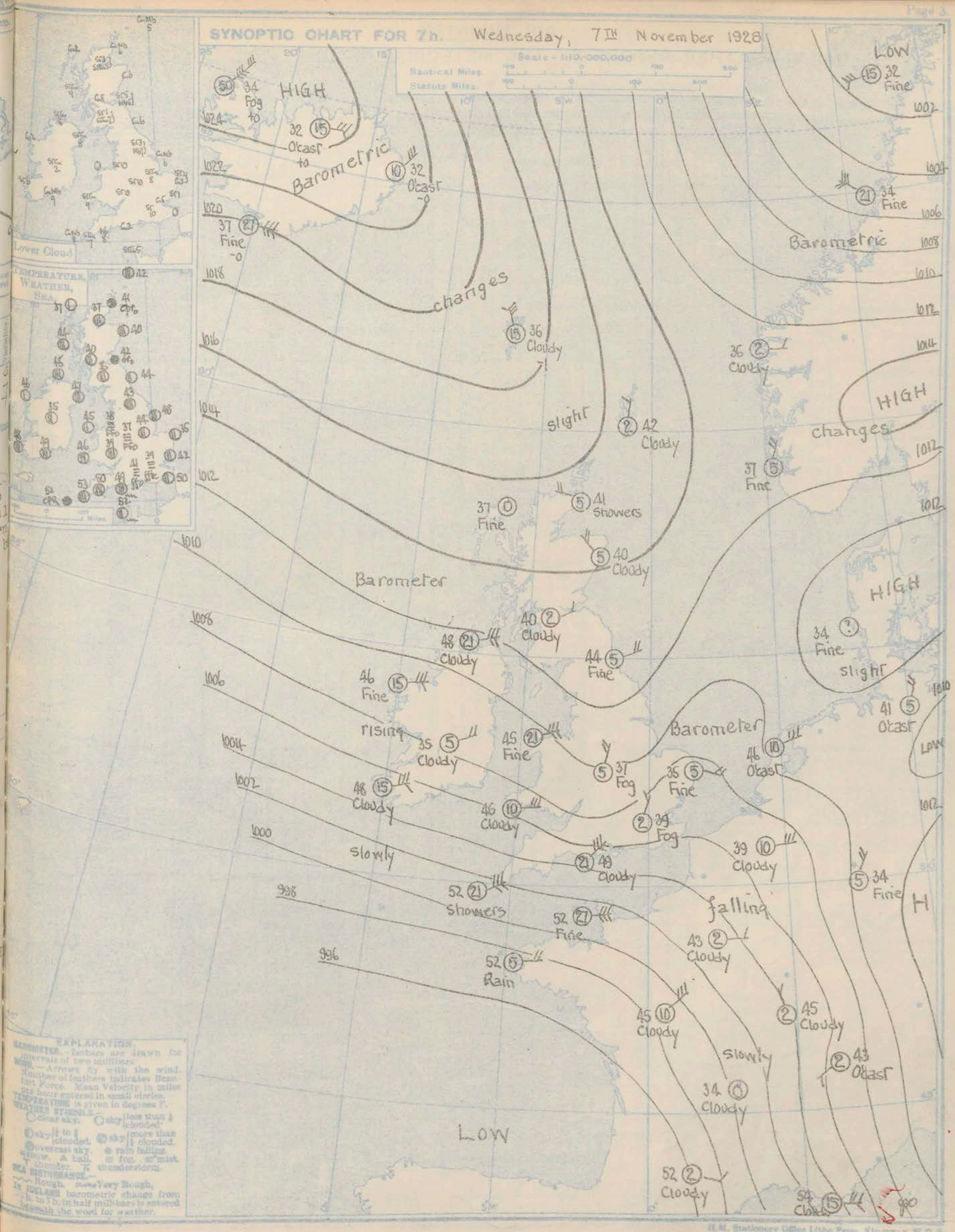
A depression near the Bay of Biscay is almost stationary. Cold cloudy weather is probable in all districts with occasional local rain especially in eastern coastal districts. Winds will be from an easterly point, mainly moderate in force, and ground frost be general at night.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday 7th November, 1928.	Further Outlook.
1. S.E. England 2. E. England	Light or moderate easterly winds, cloudy, occasional rain; cold; ground frost at night with fog locally.	
3. E. Midlands 4. W. Midlands	Light or moderate easterly winds, cloudy, cold; ground frost at night with fog locally.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate easterly winds, cloudy, cold; ground frost inland at night with mist or fog locally.	Light winds from between east and north, cloudy; cold; occasional rain eastern coastal districts.
9. N. Midlands	Light variable winds, cloudy, cold; ground frost at night with mist or fog locally.	
10. N.E. England 11. S.E. Scotland	Light easterly or northeasterly winds, cloudy, occasional rain; cold; fog locally at night.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland	Light easterly or northeasterly winds, cloudy; cold; mist or fog locally at night.	
14. Mid-Scotland	As 9.	
15. N.E. Scotland 16. Orkneys and Shetlands	Light winds between east and north, cloudy; occasional rain; cold; mist or fog locally at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate easterly winds; cloudy; cold, ground frost inland at night.	WHP.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0900 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page i

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 Wednesday, 7th November 1928. No. 312.

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.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	84	1016.2	-1	NNW	1	bc	38	92	8	1500	StCu	3	-	3
Stornoway	30	1015.1	0	E	2	b	*	*	8	*	*	*	*	2
Wick	81	1015.6	-1	N	2	c|pc	42	92	8	1500	CuNb	6	CiSt	8
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	92	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	82	1011.5	-1	E	5	bc	48	97	8	5700	StCu	6	-	6
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	128	1013.4	-1	E	3	oc	43	97	8	800	Nb	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1012.6	0	ENE	2	o	45	75	7	800	Nb	10	-	10
Blacksod Point	18	1007.6	+1	ESE	4	bc	46	92	6	*	Cu	4	-	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	278	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1007.7	0	E	5	b	45	92	6	-	-	0	ACu	1
Liverpool (Bidston)	169	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	476	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1009.7	0	E	4	bc	49	85	7	4000	CuNb	7	-	7
Birmingham (Edgbaston)	526	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	202	1010.5	-1	-	0	fo	40	97	3	<150	Str	10	-	10
Gorleston	14	1009.6	0	-	0	FFo	34	97	0	<150	St	10	-	10
Valentia (Cahirciveen)	30	1005.0	+2	E	3	o	50	97	8	·	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1003.8	+1	E	4	c	47	85	7	1500	StCu	8	-	8
Ross-on-Wye	233	*	*	*	*	*	*	*	*	*	*	*	*	*
Lossiemouth	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Park)	372	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	44	*	*	*	*	*	*	*
Croydon	946	1013	-1	E'N	3	fo	42	97	3	<150	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1007.5	-2	NE'E	3	b	43	92	6	-	-	0	-	0
Scilly (St. Mary's)	163	1001.4	0	SSE	3	c	51	92	7	4000	StCu	5	CiSt	8
Falmouth (Pendennis)	200	1000.7	0	ESE	3	c	53	85	7	4000	StCu	8	-	8
Plymouth (Cattewater)	62	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	39	1002.7	-1	E	5	oc	54	85	6	2500	Nb	10	-	10
Southampton (Calshot)	10	1005.2	-2	ENE	5	c	48	85	7	1500	St	9	-	9
Dungeness	30	1006.9	-2	E	3	b	51	75	7	-	-	0	-	0
Guernsey (Fort George) ¶	206	1002.2	-4	E	3	c	52	85	7	2500	StCu	10	-	10

Stations	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.‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-6
Lerwick	1015.1	0	N	1	c|b	42	78	8	1500	CuNb	5	ASt	9	*
Stornoway	1014.6	0	-	0	b	37	85	7	4000	Cu	2	-	2	0
Wick	1014.9	-1	WNW	2	c|pc	41	85	8	1500	CuNb	6	CiSt	8	1
Tiree	1013.2	0	E	3	bc	44	85	9	1500	StCu	9	-	9	1
Nairn	1014.7	*	-	0	c	37	85	8	1500	StCu	8	-	8	*
Aberdeen	1014.6	+1	NW	3	c	40	85	8	2500	Cu	6	ACu	9	0
Malin Head	1011.9	+1	E	5	c	48	97	7	5700	StCu	8	-	8	4
Renfrew	1013.6	0	ENE	1	c	40	92	6	4000	Cu	8	-	8	*
Edinburgh (Inchkeith)	1013.2	+1	E	3	oc	42	92	8	800	St	10	-	10	1
Leuchars	1014.0	0	N	2	c	41	85	8	4000	StCu	9	ASt	10	*
Eskdalemuir	1013.1	0	N	2	c	36	92	9	1500	StCu	8	-	8	*
Tynemouth	1012.2	+1	ENE	2	bc	44	85	7	1500	Cu	6	-	6	2
Blacksod Point	1008.7	+1	E	4	b	46	85	7	*	Cu	2	-	2	4
Donaghadee	1011.3	0	ESE	4	c	47	75	8	4000	StCu	8	-	8	4
Birr Castle	1008.3	*	ENE	2	c	35	92	6	2500	StCu	2	ASt	8	*
Holyhead	1008.5	+1	E'N	5	bc	45	85	6	-	-	0	ACu	6	4
Liverpool (Bidston)	1010.0	0	SSE	1	FFo	38	97	1	220	St	10	-	10	*
Chester (Sealand)	1009.5	+1	-	0	fo	35	97	3	1500	St	9	-	9	*
Harrogate	1011.2	0	E'N	2	o|r	43	97	4	<150	Nb	10	-	10	*
Spurn Head	1009.5	0	ENE	5	c	48	92	7	4000	CuNb	6	ASt	10	3
Birmingham (Edgbaston)	1008.7	0	NNE	2	FFo	39	97	1	<150	St	10	-	10	*
Cranwell	1010.3	0	NE	2	c	44	97	6	1500	St	8	-	8	*
Gorleston	1007.7	-2	ESE	2	bc	35	97	6	2500	Cu	5	-	5	0
Valentia (Cahirciveen)	1004.5	+3	E'N	4	c	48	92	8	2500	St	6	CiCu	8	3
Roches Point	1005.1	+3	SE	3	c	49	97	8	1500	CuNb	9	-	9	4
Pembroke (St. Ann's H.)	1004.5	+1	E	3	c	46	95	7	2500	StCu	9	-	9	2
Ross-on-Wye	1008.3	0	ENE	3	FFo	39	97	4	450	St	10	-	10	*
Lossiemouth	1007.0	-1	NE'N	3	FFo	39	97	2	<150	St	10	-	10	*
Winchester (Worthy Park)	1006.7	0	NE'N	3	o	43	97	6	450	St	10	-	10	*
S. Farnborough	1006.9	+1	ENE	1	fFo	41	97	2	450	St	10	-	10	*
London (Kew Obsy.)	1007.5	-1	NNE	1	fbc	39	97	2	2500	Cu	5	ACu	7	*
Croydon	1007.7	0	E	2	FFo	40	97	1	<150	St	10	-	10	*
Shoeburyness	1007.4	-1	NNE	2	bc	40	97	6	1500	StCu	4	CiCu	6	*
Clacton-on-Sea	1007.6	-2	NE	2	bc	42	92	6	4000	StCu	5	-	5	3
Felixstowe	1008.1	-1	NE	3	o	42	97	6	2500	St	1	Ci	2	2
Lympne	1006.1	0	NE'E	4	bc	46	85	7	-	-	0	Ci	4	*
Scilly (St. Mary's)	1001.2	0	E'N	5	c|pr	52	97	7	4000	CuNb	8	-	8	5
Falmouth (Pendennis)	1000.8	0	ENE	5	c	53	92	7	4000	StCu	7	ASt	9	2
Plymouth (Cattewater)	1002.3	+1	ENE	5	cp	50	92	7	800	Nb	8	-	8	1
Portland Bill	1002.5	0	NE	5	c	49	85	6	4000	Cu	2	ASt	10	6
Southampton (Calshot)	1005.2	0	NE	5	bc	46	85	6	2500	StCu	2	ACu	5	3
Dungeness	1005.0	-2	E	4	bc	50	75	7	-	-	0	ACu	5	4
Guernsey (Fort George) ¶	1001.5	0	E	6	bc	52	85	7	2500	StCu	5	ACu	5	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 6th November 1928.

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. to 9h.	Temperature. Max. 9h.-17h.	Rainfall.† Night 17h.-9h.	Rainfall.† Day 9h.-17h.	Sunshine. Sunrise to Sunset.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	45	47	0.4	-	0.0
Douglas (I. o. M.)	c	cd	45	49	-	Trace	0.4
Llandudno	bc	bcb	37	48	-	-	4.5
Colwyn Bay	bbcb	bcb	37	48	-	-	5.0
Rhyl	cbc	cbc	34	50	0.1	-	3.4
Wallasey	Ffc	bccof	38	47	Trace	-	0.0
Southport	foc3	o3	*33	46	-	-	0.1
Blackpool	xc	co	34	47	0.1	-	0.2
Ilkley	mo	do	36	46	2	1	0.0
Cleethorpes	roc	cdoc	39	50	1	1	1.2
Skegness	bcf	fbc	33	41	Trace	Trace	0.3
Aberystwyth	3bc	bc	40	50	-	-	7.4
Bath	m	mpbc	33	48	-	-	1.9
Cheltenham	bccm	bc	30	48	Trace	-	2.5
Leamington Spa	c	cm	33	46	0.1	-	0.5
Lowestoft	bfbc	bcbf	32	46	-	-	5.1
Harwich & Dovercourt	F	bcF	38	45	Trace	Trace	0.0
Shiden	fo	of	35	44	-	-	0.0
Southend	ofc	ocfc	33	47	0.2	Trace	0.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	wbc	coe	41	54	0.2	-	2.7
Penzance	cr	cir	51	54	-	2	0.0
Paignton	cbcog	ogg	43	55	0.3	-	1.1
Torquay	pog	co	44	66	0.6	-	1.4
Jersey	bc	rc	46	67	-	1	4.0
Weymouth	b	bc	40	55	0.1	-	4.4
Bournemouth	bcob	bbc	36	54	-	-	5.3
Ventnor	bc	bc	45	67	-	-	6.8
Portsmouth (S'thsea)	bc	bbc	43	56	-	-	6.2
Bognor	bbc	bc	42	56	0.5	-	6.5
Littlehampton	bc	c	40	54	-	-	5.5
Worthing	cbc	bc	41	54	-	-	5.0
Brighton	bc	bc	41	57	-	-	0.2
Eastbourne	bbc	bcb	41	56	1	-	6.5
Hastings	cmbcb	bbcc	42	56	0.1	-	6.0
Folkestone	rcmbc	bc3	38	67	-	-	5.2
Dover	fbcob	b	36	55	-	-	5.5
Tunbridge Wells	fmcbo	bcm	32	52	Trace	-	5.6
Ramsgate	bcb	bbc	42	54	Trace	-	5.4
Margate	fobc	bc	42	54	-	-	5.3
Deal	ffbc	bc	36	62	-	-	4.3

TERMS OF SUBSCRIPTION.—6/6 per quarter or 20/- 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. and, at Guernsey, the sunshine readings are 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 17h.-9h. instead of 9h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24458 Thursday 8th November 1928. Page 1.

Observations at 13h. G.M.T. 7th

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	1014.9	-1	NNW	1	c	43	65	8	1500	St.Cu.	9	-	9	•
Stornoway	1014.0	0	E	2	bc	45	75	8	4000	St.Cu.	3	-	3	•
Wick	1015.3	0	N	2	c	44	85	8	1500	Cu.Nb.	6	Ci.St.	8	•
Tiree	1013.9	0	E	2	cv	47	75	9	2500	St.Cu.	9	-	9	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	1014.9	-1	N	2	c/r	44	85	7	2500	Nb.	7	A.Cu.	9	2
Malin Head	1013.3	+1	E	4	c	48	97	7	5700	St.Cu.	9	-	9	•
Renfrew	1014.4	0	ENE	2	c	46	75	6	4000	Cu.	6	A.Cu.	10	1
Edinburgh (Inchkeith)	1013.6	+1	ESE	2	q/b	44	85	8	1500	St.	7	A.St.	9	•
Leuchars	1014.3	0	NE	2	c	45	75	8	4000	St.Cu.	9	-	9	1
Eskdalemuir	1013.1	0	ENE	2	bc	42	75	8	2500	Cu.	4	Ci.	5	2
Tynemouth	1013.9	+1	ENE	2	bc	46	75	7	1500	Cu.	6	-	6	•
Blacksod Point	1010.3	+2	E	4	bc	50	75	8	*	Cu.	3	-	3	*
Donaghadee	1012.7	+1	ESE	3	bc	48	75	8	4000	St.Cu.	4	A.Cu.	6	•
Birr Castle	1008.7	*	E	2	bc	52	75	7	1500	Cu.	5	-	5	•
Holyhead	1009.6	0	E	4	mc	50	85	4	4000	Cu.	1	A.Cu.	9	1
Liverpool (Bidston)	1010.4	0	E	4	mmc	47	85	4	4000	St.Cu.	9	-	9	•
Chester (Sealand)	1010.1	0	E'N	3	mmc	48	85	4	1500	St.Cu.	9	-	9	1
Harrogate	1012.0	+1	NNE	2	cr₀	45	85	8	4000	Nb.	7	A.Cu.	9	•
Spurn Head	1010.4	0	ENE	4	c	50	85	7	4000	Cu.	8	-	8	•
Birmingham (Edgbaston)	1009.3	-1	NE	3	mmbc	49	75	4	2500	Cu.	7	-	7	2
Cranwell	1010.5	0	ENE	3	c/r	48	92	7	1500	Cu.	9	-	9	1
Gorleston	1009.9	+1	ES	4	bc-	50	92	6	4000	Cu.	5	Ci.	6	•
Valentia (Cahirciveen)	1006.3	+1	E'N	3	bc	52	75	8	2500	St.Cu.	6	-	6	0
Roches Point	1007.5	+2	E	3	c	51	85	8	2500	St.Cu.	9	-	9	•
Pembroke (St. Ann's H.)	1006.7	-1	E	3	bc-	48	85	7	-	-	0	A.Cu.	7	•
Ross-on-Wye	1008.0	-1	ENE	3	bc	47	85	5	4000	Cu.	1	Ci.	7	2
Leafield	1007.8	-1	NEN	4	c-	45	92	6	4000	Cu.	6	Ci.St.	8	1
Winchester (Worthy Dn.)	1005.9	-2	NEN	4	bc	51	75	5	-	-	0	Ci.	7	1
S. Farnborough	1006.2	-2	NE	4	mmbc	50	75	4	-	-	0	Ci.St.	4	0
London (Kew Obsy.)	1006.7	-2	ENE	4	bc	51	75	5	2500	Cu.	4	Ci.	5	1
Croydon	1006.7	-2	ENE	4	c/f	51	75	6	2500	St.Cu.	5	Ci.St.	8	2
Shoeburyness	1007.3	-1	NEE	5	bc	52	85	8	4000	St.Cu.	4	Ci.	7	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	1008.1	-1	ENE	4	bc	51	75	7	2500	Cu.	5	Ci.	7	1
Lympne	1005.5	-1	NEE	5	c-	50	75	7	4000	St.Cu.	7	Ci.	8	1
Scilly (St. Mary's)	1002.5	+1	E'N	5	c	54	85	7	4000	St.Cu.	8	-	8	•
Falmouth (Pendennis)	1002.3	+1	E'N	5	bc	52	85	6	4000	St.Cu.	4	A.Cu.	6	•
Plymouth (Cattewater)	1004.1	0	ENE	5	c	50	85	7	2500	Cu.	5	Ci.St.	8	2
Portland Bill	1002.9	0	NE	5	c-	53	75	6	4000	St.Cu.	3	Ci.	8	•
Southampton (Calshot)	1004.7	-3	NE	5	bc-	50	75	5	5700	St.Cu.	1	Ci.	3	0
Dungeness	1004.6	-1	ENE	5	cr	53	65	8	4000	St.Cu.	9	-	9	•
Guernsey (Fort George)	1001.5	-1	E	5	c	53	85	7	2500	Cu.	4	Ci.St.	8	•

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

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	Sea. 0-9
Lerwick	1014.8	-1	NNW	1	q/p	39	97	8	800	Cu.Nb.	10	-	10	•
Stornoway	1014.0	0	-	0	bc	39	92	7	4000	Cu.	4	-	4	0
Wick	1015.2	0	WNW	1	bc	37	92	8	1500	Cu.Nb.	3	Ci.St.	6	0
Tiree	1014.1	0	SE	1	b-	43	85	9	2500	Cu.	1	-	1	1
Nairn	1014.8	*	-	0	c	41	85	7	2500	Cu.Nb.	8	-	8	•
Aberdeen	1014.9	0	NW	2	c	39	92	7	2500	St.Cu.	3	A.Cu.	8	0
Malin Head	1013.5	+1	E	3	bc	46	92	7	5700	St.Cu.	3	-	3	1
Renfrew	1014.4	0	NNE	2	c	40	92	6	4000	Cu.	5	A.Cu.	8	•
Edinburgh (Inchkeith)	1013.6	0	E	1	bc	43	85	8	1500	St.	5	-	5	0
Leuchars	1014.2	+1	NNE	2	cr	42	92	7	4000	Nb.	10	-	10	
Eskdalemuir	1013.8	+1	NNW	1	b	33	92	8	4000	St.Cu.	1	-	1	•
Tynemouth	1014.1	0	ENE	2	bc	44	75	8	1600	Cu.	6	-	6	2
Blacksod Point	1011.4	+1	E	4	b	48	85	7	*	-	0	-	0	4
Donaghadee	1013.2	+1	ESE	3	bc	48	65	8	4000	St.Cu.	4	Ci.Cu.	5	2
Birr Castle	1009.8	*	E	2	cr	42	92	6	-	-	0	A.St.	10	•
Holyhead	1010.2	+1	E'N	4	bc	48	85	5	-	-	0	A.Cu.	4	4
Liverpool (Bidston)	1010.9	+1	ENE	4	c	46	75	5	4000	St.	10	-	10	•
Chester (Sealand)	1010.2	+1	ENE	3	cr	45	85	5	1500	St.	10	-	10	•
Harrogate	1012.3	0	N	2	c	42	92	6	4000	Nb.	9	A.St.	10	•
Spurn Head	1009.9	0	NEE	4	c	48	85	7	4000	Cu.Nb.	8	-	8	3
Birmingham (Edgbaston)	1009.6	+1	NE	4	mor	47	85	4	1500	St.	10	-	10	•
Cranwell	1010.8	+1	NEN	3	c	45	92	7	1500	St.Cu.	9	-	9	•
Gorleston	1009.1	+1	E'N	4	c	50	85	7	2500	St.Cu.	9	-	9	0
Valentia (Cahirciveen)	1008.6	+2	NE	1	c	50	85	8	1500	St.Cu.	8	-	8	0
Roches Point	1008.8	+3	E	2	c	47	85	8	1600	St.Cu.	8	-	8	4
Pembroke (St. Ann's H.)	1007.2	+1	ENE	2	bc-	47	85	6	-	-	0	A.Cu.	3	2
Ross-on-Wye	1008.4	+1	NE	2	cr	47	85	5	2500	St.	9	-	9	•
Leafield	1008.0	+1	NE	3	bc-	44	97	6	4000	St.Cu.	3	-	3	•
Winchester (Worthy Dn.)	1005.5	+1	NE	3	b	45	85	6	-	-	0	Ci.	2	•
S. Farnborough	1006.2	+2	ENE	3	b	46	85	5	-	-	0	-	0	•
London (Kew Obsy.)	1007.1	+1	NE	3	b	48	75	5	-	-	0	-	0	•
Croydon	1006.7	0	ENE	4	b-	45	85	5	-	-	0	-	0	•
Shoeburyness	1007.0	0	NE	4	b	47	92	8	5700	Cu.	2	-	2	
Clacton-on-Sea	1007.7	+1	ESE	4	bc	49	75	7	4000	Nb.	6	-	6	3
Felixstowe	1008.1	+1	NEE	5	b	50	75	7	-	-	0	-	0	3
Lympne	1005.4	0	NE	4	b-	47	85	6	-	-	0	-	0	•
Scilly (St. Mary's)	1004.8	+1	E	4	bc	51	75	7	4000	St.Cu.	7	-	7	3
Falmouth (Pendennis)	1004.2	+2	NNE	3	bc-	48	85	7	4000	St.Cu.	4	-	4	1
Plymouth (Cattewater)	1004.2	0	NE	5	bc-	48	85	6	-	-	0	A.Cu.	7	0
Portland Bill	1003.3	+1	NEN	5	bc-	49	85	6	2500	St.	3	-	3	5
Southampton (Calshot)	1005.0	+1	NEE	5	bc-	49	75	6	-	-	0	Ci.	3	3
Dungeness	1003.8	-1	ENE	5	c	51	85	7	800	St.Cu.	9	-	9	5
Guernsey (Fort George)	1001.6	0	NE	7	c	53	85	8	2500	St.Cu.	9	-	9	7

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility at 9h.
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	bcjw	bcm₀	bbcc	52	43	40	-	-	0.7	*	/	6
Croydon	244	ofefjc	cbczob	bmocr₀	52	42	39	Tr.	Tr.	2.0	*	*	5
Greenwich (Royal Obsy.)	149	c	cb	bwcd₀	53	42	35	-	Tr.	2.1	72	93	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.7	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	53	41	38	-	-	0.1	70	84	*
Regent's Pk. (Botanic Gdns).	169	*	*	*	*	*	*	*	*	0.9	*	*	*
Camden Square	110	c	c	*	51	40	,	-	-	*	*	89	*
Kensington Palace	80	bc	bc	*	51	43	37	-	-	*	(At 18h) 55	84	*
Hampstead Observatory	450	*	*	*	49	39	34	Tr.	-	7.5	*	82	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 8th

South Kensington

Max.	Time.	Min.	Time.
1.0	10h 7th	<0.3	6h 8th

Kew Observatory

Max.	Time.	Min.	Time.
0.8	9h 7th	0.1	2h 8th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 7th 17 h. 30 m. to 8th 6 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12.30	10.43	86
δ Ursae Minoris	12.30	10.00	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. 8th & 9th November 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.4 / 7.6	11.37 / 11.37	16.9 / 16.7
Greenwich	7.7 / 7.9	11.44 / 11.44	16.20 / 16.18
Wick	7.47 / 7.49	11.56 / 11.56	16.5 / 16.3
Valentia	7.50 / 7.52	12.25 / 12.25	16.59 / 16.57

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:—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.

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.

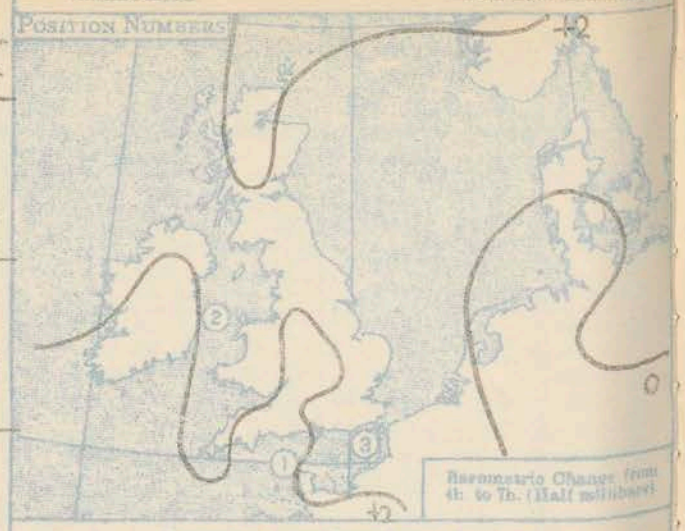
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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. 7h.	Weather. 18h.-18h. 7h.	Weather. 18h. 7h. to 18h. 8h.	Weather. 18h.-7h. 8h.	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 7h. Hours.
Lerwick	c	cpr₀	bcpro	bcpro	45	35	•	Tr.	1330	0·2	<21·00	1·6
Stornoway	b-bc	b-bc	b-bc	b-bc	46	27	•	-	-	-	-	5·1
Wick	cpr₀c	b-bc	b-bc	probc	44	32	•	0·2	<8·00	0·6	2·30	•
Tiree	c0	cbc	bc.	bcb	47	34	23	-	-	-	-	0·0
Nairn	cbc	bapc	cbcx	bc	43	31	•	0·2	14·30	-	-	1·8
Aberdeen	cir₀	cbcc	cb	bx	45	32	28	1	<8·00	-	-	0·2
Malin Head	ce	cbce	bbcce	cbce	48	39	•	-	-	-	-	0·0
Renfrew	cx₀	cbcx₀c	cbmx	bccpo	46	30	20	-	-	Tr.	6·30	1·3
Edinburgh (Inchkeith)	r₀c	cir₀bc	bccrorof	oprro₀	45	41	39	0·1	<8·00	3	<21·00	0·1
Leuchars	c	cpr₀	cir	c-pc	45	39	37	0·3	17·00	1	<21·00	0·2
Eskdalemuir	cbc	bcb	bbcprob	bbcx	44	29	23	-	-	Tr.	<21·00	2·0
Tynemouth	bc	bc	bccpo	bc	47	39	31	-	-	0·1	22·00	•
Blacksod Point ...	b	b	bbc	bc	50	~~(26)~~	~~45~~	-	•	-	•	•
Donaghadee	cbc	bc	bbc	bbc	48	43	•	-	-	-	-	•
Birr Castle	cm₀bc	bacm₀	cmo	cmo	52	35	23	-	-	-	-	5·8
Holyhead	bcm₀	mmbc	cbcbw	bmow	51	44	41	-	-	-	-	2·2
Liverpool (Bidston) ...	Facm	cm₀	cmow	wcmo	48	39	34	Tr.	-	-	-	0·0
Chester (Sealand) ...	cfm	cmmm₀	cmo	cmomr₀	48	39	33	-	-	Tr.	6·30	0·0
Harrogate	cir₀	cir₀	c0	cirob	46	37	32	0·1	11·00	0·2	2·30	0·0
Spurn Head	c	cpr₀	cpr	cdc	50	44	•	Tr.	14·30	3	22·00	0·5
Birmingham (Edgbaston)	Fcbc	bcam	oir₀	or₀c	50	39	37	-	-	0·4	<21·00	2·0
Cranwell	cidir	c	codo	obcc	50	37	34	0·4	11·00	1	<21·00	0·0
Gorleston	bcc	bcapr₀	eq	coir₀q	52	43	40	Tr.	13·30	1	1·30	2·8
Valentia (Cahirciveen)	cbc	bcc	bz	bcb	54	34	31	-	-	Tr.	-	3·5
Roches Point	c	c	cbcbw	bbccw	54	41	•	-	-	Tr.	-	•
Pembroke (St. Ann's H.)	cbcm₀	bcm₀	bcbmo	bw	49	40	•	-	-	-	-	2·2
Ross-on-Wye	ocbcm₀	cbcc	om	cmomid₀	49	41	37	-	-	Tr.	5·30	2·0
Leafield	foc	cbc	bcw	bccw	47	41	40	0·1	-	0·1	-	1·0
Winchester (Worthy Dn.)	ocm₀	bcbm₀	bmo	bbcc	51	41	35	-	-	-	-	3·1
S. Farnborough ...	ofabcm	bcm₀	bmow	bm₀wc	52	41	37	-	-	Tr.	-	1·8
London (Kew Obsy.) ...	bcfw	bcm₀	b	bcc	52	43	40	-	-	-	-	0·7
Croydon	ofaffcz	cbcapm₀	bmo	bccmoro	52	42	39	Tr.	-	Tr.	6·30	2·0
Shoeburyness	bc	cbc	bc	c	53	42	39	-	-	-	-	0·6
Clacton-on-Sea ...	bcco	ocbc	bc	bcco	52	42	•	-	-	-	-	3·7
Felixstowe	bc	bacb	b	bcc₀	52	47	44	-	-	Tr.	6·30	4·2
Lympne	bcc	cbcm₀	bbcc	c	51	45	43	-	-	-	-	1·7
Scilly (St. Mary's) ...	cp₀c	cbc	bcb	bbc	55	48	•	Tr.	11·00	-	-	1·8
Falmouth (Pendennis)	cbcqm₀	bccm₀	bcb	bbc	54	42	•	-	-	-	-	0·6
Plymouth (Cattewater)	cbcqm₀	cbcqm₀	bcqb	bwq	52	46	40	-	-	Tr.	-	3·0
Portland Bill	cx₀	cbcxx₀	ezbcbzo	bc	55	44	•	-	-	-	-	•
Southampton (Calshot)	bacbm₀	bambm₀	bm₀bc	bcbwbc	52	43	39	-	-	-	-	2·1
Dungeness	bcc	oc	c	c	54	46	•	-	-	-	-	•
Guernsey	bcq	cq	cirocq	cq	54	51	•	-	-	Tr.	<21·00	1·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	7th 10h.	'SCOTIA'	ENE	6	c-	50	54	7

GENERAL INFERENCE.

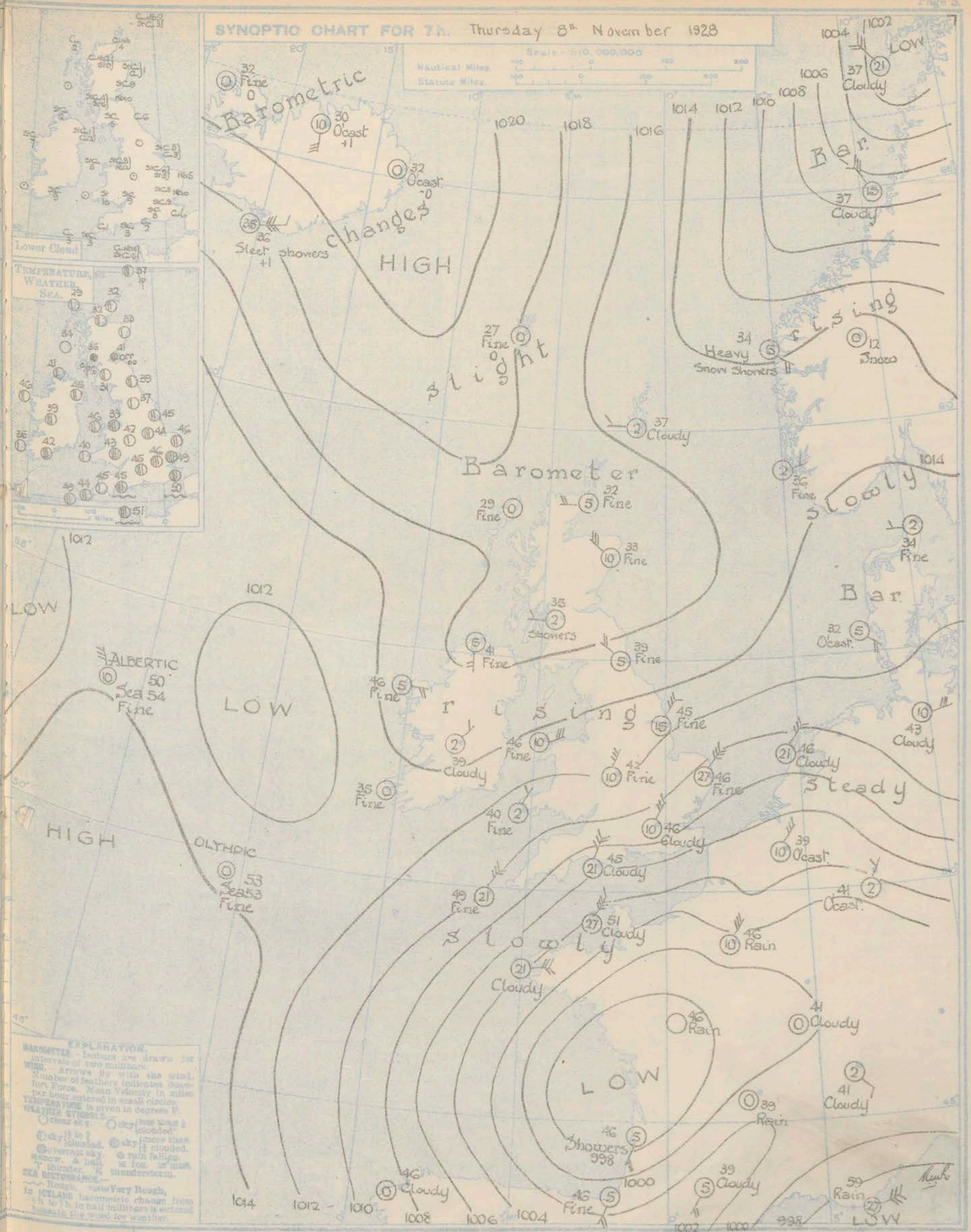
Pressure is high over Iceland and low over Northern Scandinavia and France. Fresh northeasterly winds are likely in Southern and Southeastern England but light variable winds are probable elsewhere in the British Isles. Mainly fair rather cold weather is likely in all districts apart from occasional rain on the East Coast. Ground frost is to be expected in most inland places at night.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 8th November, 1928.	Further Outlook.
1. S.E. England 2. E. England	Fresh northeasterly winds, slowly moderating; cloudy at first with occasional rain, brighter intervals later; moderate temperature; ground frost inland at night.	Mainly fair and rather cold with sharp ground frost at night.
3. E. Midlands 4. W. Midlands	Moderate northeasterly winds; fair; moderate day temperature; sharp ground frost at night.	
5. S.W. England 6. South Wales	Fresh northeasterly winds, slowly moderating; fair; moderate temperature.	
7. North Wales 8. N.W. England 9. N. Midlands	Light variable winds: fair; moderate day temperature; sharp ground frost inland at night.	
10. N.E. England 11. S.E. Scotland	Light variable winds; cloudy with brighter intervals; occasional coastal rain; moderate temperature.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland, B. N.W. Scotland) 14. Mid-Scotland	Light variable winds; fair; rather cold during day; ground frost inland at night.	
15. N.E. Scotland 16. Orkneys and Shetlands	As 10 - 11.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds; fair; rather cold during day, sharp ground frost inland at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

† Trace = rain has fallen, but amount less than 0·1 mm.



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 ¾ clouded. Sky more than ¾ clouded. Overcast sky. Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.

SEA DISTURBANCE.

Rough. Very Rough.

In ICELAND barometric change from each 10th in half millibars is entered beneath the wind for weather.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION......Thursday 8th November......1928. No. 313.

Observations at 1h. G.M.T. 8h.

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	Upper Form	Total Amt. 0-10
Lerwick	84	1015·2	+1	WNW	1	bcjp	36	85	8	1500	CuNb	3	aSt	6
Stornoway	36	1016·3	+1	-	0	b-	*	*	6	*	*	*	*	2
Wick	81	1016·5	+1	W	2	bc	33	97	8	1500	CuNb	5	-	5
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1015·0	+1	S	2	c	42	97	7	5700	StCu	9	-	9
Renfrew	80	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1014·0	+1	NE	3	o|r	42	92	8	1500	St	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1015·4	0	ENE	1	c|r	45	65	8	1500	Nb	8	-	8
Blacksod Point	38	1012·8	+2	E	2	bc	46	92	6	*	Ci	4	-	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	36	1012·0	+1	E'N	3	b	44	85	5	-	-	0	-	0
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1010·5	0	NE'E	5	cr	46	85	7	4000	Nb	8	-	8
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1011·4	+1	N'E	3	od₀	43	97	5	800	St	10	-	10
Gorleston	14	1009·1	0	E	5	c	49	85	7	4000	StCu	10	-	10
Valentia (Cahirciveen)	30	1013·1	+1	SE	2	b	46	97	7	-	-	0	-	0
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1009·3	+2	E	3	b	45	85	6	-	-	0	CiCu	2
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	273	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	45	*	*	*	*	*	*	*
Croydon	244	1007·4	0	NE	3	b-	43	92	5	-	-	0	-	0
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1005·5	0	NE'N	4	c	47	75	7	4000	StCu	1	CiSt	9
Scilly (St. Mary's)	163	1007·3	+1	E'S	5	b	48	85	7	4000	Cu	1	-	1
Falmouth (Pendennis)	200	1006·0	+1	NE'E	4	b	46	85	7	4000	Cu	2	-	2
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	33	1005·0	+1	NNE	4	b	46	85	6	2500	StCu	2	-	2
Southampton (Calshot)	10	1006·0	0	NE	3	bc-	45	85	7	-	-	0	Ci	4
Dungeness	20	1003·8	+1	ENE	6	bc-	50	75	7	2500	StCu	6	-	6
Guernsey (Fort George) P	[illegible]	1003·2	+1	NE	5	c+	53	85	6	2500	StCu	10	-	10

Observations at 7h. 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	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1018·7	+2	W	1	cjp	37	85	8	1500	CuNb	8	-	8	*
Stornoway	1016·8	+1	-	0	b	29	97	7	4000	Cu	2	-	2	/
Wick	1017·1	+2	W	2	bc	32	97	8	1500	CuNb	4	-	4	0
Tiree	1018·3	+1	SE	1	b-	34	92	9	-	-	0	-	0	0
Nairn	1017·5	*	-	0	bc	32	85	7	1500	St	7	-	7	*
Aberdeen	1017·0	+1	NW	3	b	33	92	7	2500	Cu	1	-	1	*
Malin Head	1016·3	+1	S	2	bc-	41	97	8	5700	StCu	6	-	6	/
Renfrew	1016·9	+1	W	1	cjpf₀	35	97	5	1500	St	10	-	10	*
Edinburgh (Inchkeith)	1015·2	+1	NNE	3	or₀r₀	41	92	8	2500	Nb	10	-	10	/
Leuchars	1014·5	+2	NW	1	c	38	85	5	4000	StCu	9	-	9	*
Eskdalemuir	1016·8	+1	NE	2	bc	31	92	8	2500	StCu	5	-	5	*
Tynemouth	1015·1	+1	NW	2	bc	39	85	7	1500	Cu	6	-	6	2
Blacksod Point	1014·1	+1	E	2	bc	46	85	6	*	StCu	7	-	7	3
Donaghadee	1015·7	+1	NE'E	3	bc-	45	75	8	4000	Cu	3	-	3	2
Birr Castle	1014·3	*	NE	1	c-	39	92	6	2500	StCu	8	aSt	9	*
Holyhead	1013·2	+1	ENE	3	bc+	46	85	7	2500	StCu	5	-	5	/
Liverpool (Bidston)	1013·8	+2	N'E	2	c	38	92	6	4000	StCu	10	-	10	*
Chester (Sealand)	1012·8	+1	NW	2	c|r	41	92	4	1500	St	10	-	10	*
Harrogate	1014·4	+1	N	1	b	37	97	6	-	-	0	aCu	1	*
Spurn Head	1011·7	+1	NE'E	4	bc-	45	75	7	4000	Cu	6	-	6	2
Birmingham (Edgbaston)	1012·8	+2	NNE	3	b-	42	85	5	-	-	0	aCu	2	*
Cranwell	1012·1	+1	NNE	3	c+	44	92	6	1500	StCu	9	-	9	*
Gorleston	1009·2	0	NE	6	bc-	46	85	7	2500	Nb	5	-	5	4
Valentia (Cahirciveen)	1013·5	+2	-	0	b	35	97	8	-	-	0	Ci	1	0
Roches Point	1013·8	+3	NE	2	c	42	97	8	2500	StCu	9	-	9	/
Pembroke (St. Ann's H.)	1011·3	+1	NE	1	b	40	92	8	-	-	0	CiCu	1	*
Ross-on-Wye	1011·0	+1	NE	3	o	43	92	5	800	St	10	-	10	*
Leafield	1009·9	+2	NE'N	4	c	42	85	9	4000	StCu	9	-	9	
Winchester (Worthy Dn.)	1008·3	+1	N	4	c-	44	92	7	800	StCu	8	-	8	*
S. Farnborough	1007·9	+1	NNE	3	c	45	92	7	2500	StCu	9	aSt	9	*
London (Kew Obsy.)	1008·5	+1	NE'N	3	c	46	85	6	2500	StCu	9	CiSt	9	*
Croydon	1007·8	+1	NE	3	cr₀r₀	45	92	6	800	StCu	10	-	10	
Shoeburyness	1008·1	0	N	4	c+	46	97	7	800	St	5	aSt	10	*
Clacton-on-Sea	1008·1	0	NE	4	o	49	75	7	4000	Nb	10	-	10	3
Felixstowe	1009·7	0	NE'N	4	cr₀r₀	47	92	6	800	Nb	9	aSt	10	3
Lympne	1006·3	+2	NE'N	5	c	47	75	8	2500	StCu	8	CiSt	9	*
Scilly (St. Mary's)	1010·2	+2	NE	5	bc	49	85	7	4000	Cu	3	aSt	5	4
Falmouth (Pendennis)	1008·1	+1	NNE	3	bc+	44	85	7	4000	StCu	3	-	3	2
Plymouth (Cattewater)	1007·9	+3	N	5	b	45	85	8	4000	Cu	1	-	1	0
Portland Bill	1005·8	+2	NNE	5	c	45	85	8	2500	StCu	3	CiSt	10	0
Southampton (Calshot)	1007·3	+2	NNE	4	bc+	44	85	7	2500	Cu	2	Ci	4	0
Dungeness	1004·4	+1	NE	6	c+	50	75	7	1500	StCu	X6	CiSt	10	6
Guernsey (Fort George) P	1003·9	+3	NNE	7	c	51	85	8	1500	StCu	10	-	10	7

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

STATIONS.	WEATHER. Forenoon.	WEATHER. Afternoon.	TEMPERATURE. Min. 9h.–9h. 30 9h. 7"	TEMPERATURE. Max. 9h.–17h. 7"	RAINFALL. Night 17h.–9h. 6"–7"	RAINFALL. Day 9h.–17h. 7"	SUNSHINE. Sunrise to Sunset 7"
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bcm	r₀c	39	48	-	0·2	3.4
Douglas (I. o. M.)	c	c	46	51	-	-	0.7
Llandudno	com	moco	40	48	-	-	0.4
Colwyn Bay	coc	coc	36	48	-	-	0.2
Rhyl	bco	o	39	50	-	-	0.0
Wallasey	fefc	cbcc	37	48	Trace	-	0.0
Southport	o'c	obcco	*39	48	-	-	0.2
Blackpool	oc	cbc	42	49	0·1	-	0.8
Ilkley	od₀	c	43	47	·4	0·2	0.1
Cleethorpes	o	o	46	50	4	-	0.0
Skegness	rc	cpr	36	50	5	-	0.0
Aberystwyth	cbc	bcz	43	51	-	-	6.5
Bath	mc	cbcb	37	49	-	-	1.5
Cheltenham‡	bcm₀	bc	39	50	-	-	3.6
Leamington Spa	cm	cm	36	50	-	-	1.8
Lowestoft	bcbbc	bbcc	35	51	0.3	-	4.5
Harwich & Dovercourt	bc	bc	38	56	Trace	-	4·1
Maldon	bcc	cbcc	34	51	-	-	1.5
Southend	cfc	oc	38	52	0.3	-	1.6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cbc	bcb	40	47	-	-	5.4
Penzance	c	cbcz	50	54	0.5	-	1.2
Paignton	oq	bcb	48	52	7	-	1.9
Torquay	cm	cbcbm	50	52	5	-	3.3
Jersey	c	oq	48	54	1	-	0.7
Weymouth	cb	b	45	53	1	-	3.6
Bournemouth	ocb	bcc	43	51	0.5	-	3.0
Ventnor	cbz	c	46	52	-	-	3.7
Portsmouth (S'thsea)	oc	bbc	44	53	-	-	2.7
Bognor	cbc	bc	43	53	-	-	4.5
Littlehampton	cbc	bc	42	53	-	-	3.9
Worthing	cbc	bc	44	54	-	-	3.3
Brighton	cbc	cbc	44	55	-	-	3.5
Eastbourne‡	oc	coc	41	54	0.1	-	2.6
Hastings‡	bcc	co	42	54	Trace	-	1.1
Folkestone	c	cm	47	53	-	-	0.8
Dover	c	cbcc	45	53	-	-	1.3
Tunbridge Wells	cmoco	coc	36	53	-	-	1.4
Ramsgate	bc	bcc	48	52	-	-	2.8
Margate	bc	bc	48	53	-	-	2.9
Deal	cbc	cbcc	43	52	-	-	1.7

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. GMT and at Guernsey, the sunshine readings are 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. ✠ 12h.-6h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24459 Friday, 9th. November 1928.

Observations at 13h. 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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1017·6	-1	W'N	1	cjp	37	92	8	1500	CuNb	8	-	8	•
Stornoway	1018·6	0	-	0	bc+	43	92	7	4000	Cu	5	-	5	•
Wick	1018·6	+2	WSW	2	bc	42	85	8	1500	Cu	3	CiSt	5	•
Tiree	1018·3	+1	SE	2	b	47	65	9	-	-	0	Ci	1	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1018·5	+1	WNW	2	b	45	75	8	4000	Cu	1	-	1	2
Malin Head	1018·2	+1	S	1	c	46	92	8	5700	StCu	9	-	9	•
Renfrew	1018·6	+1	NE	2	c	44	75	7	4000	StCu	9	-	9	1
Edinburgh (Inchkeith)	1017·8	+3	NE	3	b-	45	75	9	4000	Cu	2	-	2	•
Leuchars	1018·3	+1	NE	1	b	46	65	8	4000	Cu	1	-	1	2
Eskdalemuir	1017·3	+1	E	3	bc	43	75	8	4000	Cu	7	-	7	1
Tynemouth	1017·2	+1	ENE	2	bc/r	45	75	8	1500	Cu	5	-	5	•
Blacksod Point	1016·7	+3	E	3	bc	47	75	9	[illegible]	StCu	4	-	4	•
Donaghadee	1018·2	+1	E	3	b	47	65	8	4000	Cu	2	-	2	•
Birr Castle	1015·9	•	N	2	bc-	48	75	7	2500	Cu	3	-	3	•
Holyhead	1015·7	+2	E	2	c	47	75	6	4000	StCu	9	-	9	1
Liverpool (Bidston)	1015·7	+1	NE	3	c+	45	65	6	4000	St	9	-	9	•
Chester (Sealand)	1015·1	+1	NE'E	3	fe-	46	65	5	800	St	9	-	9	1
Harrogate	1015·7	+1	NNE	3	bc-	44	75	8	4000	Nb	7	-	7	•
Spurn Head	1013·7	+1	NNE	5	bc-	48	75	7	4000	CuNb	3	ACu	6	•
Birmingham (Edgbaston)	1013·6	+1	NE	4	bc	46	55	5	2500	Cu	3	ACu	5	2
Cranwell	1013·9	+1	NE	4	cr0	46	75	8	1500	Cu	9	-	9	1
Gorleston	1010·5	0	NE	5	bc-	48	85	7	5700	Cu	4	-	4	•
Valentia (Cahirciveen)	1015·9	+1	-	0	bc	50	85	8	2500	Cu	1	CiCu	3	5
Roches Point	1016·1	+2	N	2	b	51	75	8	2500	Cu	1	CiCu	2	•
Pembroke (St. Ann's H.)	1013·6	+2	NE	3	bc+	47	75	7	2500	Cu	4	CiSt	6	•
Ross-on-Wye	1012·8	+1	NE	3	c	47	65	5	4000	StCu	9	-	9	2
Leafield	1011·9	+1	NE'N	4	c	45	75	8	4000	StCu	9	-	9	1
Winchester (Worthy Dn.)	1009·9	+2	N'E	4	c	49	65	8	2500	StCu	8	-	8	1
S. Farnborough	1009·8	+1	NNE	4	c	49	65	8	2500	Cu	9	-	9	0
London (Kew Obsy.)	1010·1	0	NE'N	4	c	50	65	6	2500	StCu	8	ASt	9	1
Croydon	1009·6	0	NE	4	c	48	75	5	1500	St	10	-	10	2
Shoeburyness	1009·7	+2	NNE	4	cd0	47	97	8	450	Nb	8	ASt	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1010·3	+1	NE'N	5	cr0	47	92	6	1500	StCu	8	ASt	10	2
Lympne	1007·8	+1	NNE	5	c	48	75	8	2500	StCu	10	-	10	1
Scilly (St. Mary's)	1012·5	+1	NE'N	5	bc	50	75	7	4000	StCu	7	-	7	•
Falmouth (Pendennis)	1010·4	+1	NE	4	bc	49	75	7	4000	Cu	4	-	4	•
Plymouth (Cattewater)	1010·4	0	NE	5	b	51	75	8	4000	Cu	1	-	1	2
Portland Bill	1008·6	+1	NNE	5	bc	52	65	8	2500	Cu	7	Ci	7	•
Southampton (Calshot)	1009·4	+1	NE'N	5	bc	50	65	7	2500	StCu	4	ACu	6	0
Dungeness	1006·2	+2	NE	6	c	50	65	8	1000	StCu	10	-	10	•
Guernsey (Fort George)	1008·5	+1	NE	6	c-	51	85	8	2500	StCu	9	-	9	•

Observations at 18h. 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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1018·6	+1	W'N	1	bc	35	85	8	1500	StCu	6	-	6	•
Stornoway	1018·9	0	-	0	bc	31	97	7	4000	Cu	2	CiSt	3	0
Wick	1019·4	+1	W	2	b	35	92	8	1500	CuNb	2	-	2	0
Tiree	1019·5	+1	E	1	b	35	92	9	4000	Cu	1	Ci	2	1
Nairn	1019·6	•	-	0	bc-	32	85	8	1500	St	3	-	3	•
Aberdeen	1019·7	+2	NW	2	b	36	92	6	2500	Cu	1	-	1	0
Malin Head	1019·5	+2	SSE	2	bc-	41	97	8	5700	StCu	6	-	6	0
Renfrew	1020·2	+3	-	0	b-	34	97	5	-	-	0	-	0	•
Edinburgh (Inchkeith)	1019·6	+3	NE	2	bc	42	75	8	1500	St	2	ACu	3	1
Leuchars	1020·2	+3	-	0	b	36	92	6	2500	StCu	2	-	2	•
Eskdalemuir	1019·7	+3	N	2	bc-	35	85	8	2500	StCu	3	-	3	•
Tynemouth	1019·0	+2	NE	2	bc-	45	65	8	1500	Cu	3	-	3	2
Blacksod Point	1017·9	+1	-	0	b	44	85	8	•	-	0	-	0	1
Donaghadee	1019·5	+2	E	2	bc+	46	65	8	4000	Cu	5	-	5	2
Birr Castle	1018·4	•	NE	1	bc	39	85	6	4000	StCu	2	Ci	4	•
Holyhead	1017·8	+3	NE'E	3	bc	47	75	7	4000	StCu	7	-	7	2
Liverpool (Bidston)	1017·8	+2	NE	3	c	44	75	5	1500	St	8	-	8	•
Chester (Sealand)	1017·0	+3	NE	2	mb	42	85	4	4000	StCu	2	-	2	•
Harrogate	1018·1	+3	-	0	b	38	85	7	-	-	0	ACu	1	•
Spurn Head	1015·8	+2	NE'N	5	bc-	45	75	7	4000	CuNb	4	-	4	4
Birmingham (Edgbaston)	1016·2	+4	NNE	4	c-	44	75	6	4000	StCu	8	-	8	•
Cranwell	1016·6	+4	N'E	3	b-	38	92	7	2500	StCu	1	-	1	•
Gorleston	1012·5	+2	NNE	5	bc	48	85	7	2500	Cu	5	-	5	4
Valentia (Cahirciveen)	1018·0	+3	-	0	bc	45	92	8	2500	StCu	4	AC	5	1
Roches Point	1018·9	+3	N	2	b	42	85	8	2500	StCu	1	CiCu	2	0
Pembroke (St. Ann's H.)	1015·0	+2	NE	1	bc	43	85	7	2500	Cu	3	CiSt	5	0
Ross-on-Wye	1015·2	+3	NE'E	3	c	45	75	5	4000	StCu	10	-	10	•
Leafield	1016·0	+4	NNE	4	bc	42	85	8	4000	StCu	6	-	6	•
Winchester (Worthy Dn.)	1012·1	+3	N'W	3	b	43	85	8	-	-	0	-	0	•
S. Farnborough	1012·8	+4	N	3	b-	44	85	7	4000	StCu	1	-	1	•
London (Kew Obsy.)	1013·2	+3	NNE	4	b-	45	75	6	2500	StCu	1	-	1	•
Croydon	1012·1	+4	NNE	4	c/m	46	85	5	1500	StCu	8	-	8	•
Shoeburyness	1012·4	+2	NNE	5	bc	44	97	8	1500	StCu	4	-	4	•
Clacton-on-Sea	1012·2	+3	NW	4	bc	47	75	7	4000	StCu	5	-	5	3
Felixstowe	1012·7	+4	NNE	5	cr0	47	75	7	1500	Nb	8	-	8	3
Lympne	1010·2	+3	NNE	4	bc-	47	75	7	4000	StCu	3	-	3	•
Scilly (St. Mary's)	1014·6	+3	NE'N	4	c	49	75	8	4000	StCu	9	-	9	4
Falmouth (Pendennis)	1014·1	+5	NNE	4	c	46	75	7	4000	StCu	8	-	8	3
Plymouth (Cattewater)	1013·8	+4	N	3	c	47	75	7	4000	StCu	9	-	9	0
Portland Bill	1011·6	+3	NNE	4	b-	47	75	8	2500	StCu	2	-	2	4
Southampton (Calshot)	1012·1	+4	N	3	bc-	46	85	7	2500	StCu	3	-	3	0
Dungeness	1009·6	+4	NE	6	c	51	65	8	2500	Cu	5	ASt	10	5
Guernsey (Fort George)	1010·1	+5	NE	7	c	51	75	7	2500	StCu	8	ASt	10	7

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet.	Weather Morning. (24 hours ended 9h.)	Weather Afternoon.	Weather Night.	Temperature 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 9h.
Kew	18	ccz	bcb	bbw	50	40	32	-	-	0·2	•	•	5
Croydon	364	cocdm0	cm(c)bm	bcwpcbw	48	41	36	Tr	Tr	0·0	•	•	7
Greenwich (Royal Obsy.)	169	c	cbc b	bwcd bc	49	40	32	-	Tr	0·1	74	74	5
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·2	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	51	41	36	-	-	0·1	73	68	•
Regent's Pk. (Botanic Gdns).	162	•	•	•	•	•	•	•	•	0·4	•	•	•
Camden Square	110	c	c	•	45	40	•	-	-	•	•	78	•
Kensington Palace	80	co	bc	•	49	41	32	-	-	•	(At 18h) 76	68	•
Hampstead Observatory	450	•	•	•	47	36	29	Tr	-	2·0	•	83	•

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	10h 8th	<0·3	3h 9th

Kew Observatory Max.	Time.	Min.	Time.
0·2	17h 8th	<0·1	3h 9th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 8th 17 h 30 m. to 9th 6 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12·30	9·49	79
δ Ursae Minoris	12·30	9·8	73

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.

9th-10th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·6 / 7·8	11·37 / 11·37	16·7 / 16·6
Greenwich	7·9 / 7·11	11·44 / 11·44	16·18 / 16·16
Wick	7·49 / 7·51	11·56 / 11·56	16·3 / 16·0
Valentia	7·51 / 7·53	12·25 / 12·25	16·57 / 16·55

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, 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.

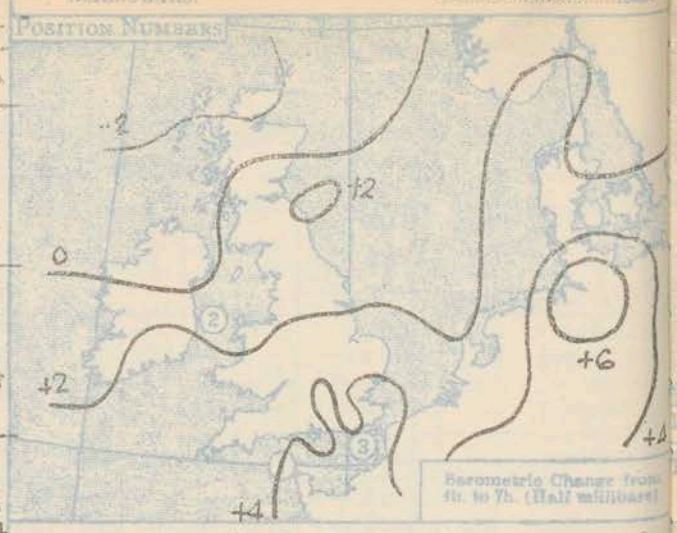
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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. 8th	Weather. 18h.-18h. 8th	Weather. 18h. 8th to 18h. 9th	Weather. 18h.-7h. 9th	Temperature. Max. Day 7h.-18h.	Temperature. Min. Night 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day 7h.-18h. mm.	Day 7h.-18h. began.	Night 18h.-7h. mm.	Night 18h.-7h. began.	Sun 8th. Hours.
Lerwick	cpr₀	cpr₀bc	bc	becoir	41	35	•	Tr	<8.00	0.2	5.30	4.7
Stornoway	c	b-bc	bbc	bbc	47	29	•	–	–	–	–	2.7
Wick	b-bc	b-bc	bbc	bbc	43	30	•	–	–	–	–	•
Tiree	b.bc	bcb	bcb	bbc	47	31	20	–	–	–	–	7.0
Nairn	bcb	bbc	bcxb	bx	38	29	•	–	–	–	–	7.0
Aberdeen	bxm₀b	bbm₀w	bxm₀	bxm₀	45	27	20	–	–	–	–	7.3
Malin Head	bccε	cbcε	bcebx	bx	47	34	•	–	–	–	–	0.0
Renfrew	cp₀ ~~bc~~ c	cbcmbx	bxmffw	boxFFw	44	24	19	Tr	<8.00	0.3	–	0.0
Edinburgh (Inchkeith)	r₀r₀cbc	bcb	bcwm₀	bcmmif	48	34	34	0.1	<8.00	Tr	–	4.7
Leuchars	cbcb	bbxm₀	bxm₀	bxm₀	45 ~~46~~	27	20	–	–	–	–	6.4
Eskdalemuir	bcxbbc	bcpr₀bc	bcbx	bxbxm₀	44	21	15	Tr	16.30	–	–	4.8
Tynemouth	bcp	bc	bcb	bbc	47	34	29	0.3	9.00	–	–	•
Blacksod Point ...	cb	b	b	b	49	43	•	–	•	–	•	•
Donaghadee	bcb	bbc	bcbx	ifbx	47	34	•	–	–	–	–	•
Birr Castle	cbc	bcm₀	bccm₀	cxm₀	49	26	14	–	–	–	–	6.6
Holyhead	bcc	bc	bcbw	bm₀x	48	37	29	–	–	–	–	2.4
Liverpool (Bidston) ...	cm₀bc	cbccm₀	cbm₀x	bxm₀	46	37	27	–	–	–	–	2.2
Chester (Sealand) ...	cbcmm	cbcz₀	bmx	bmFFx	47	25	18	–	–	–	–	2.5
Harrogate	bbcc	bcb	b	bx	44	33	27	–	–	–	–	5.2
Spurn Head	cpr₀cbc	bc	bcpr	bc	49	43	•	Tr	11.00	Tr	<21.00	5.0
Birmingham (Edgbaston)	bbc	bcc	cbm	bmfx	47	33	27	–	–	–	–	4.0
Cranwell	cb,c	~~cbc~~ c,bc	bbc	bbc	47	31	26	0.1	12.30	–	–	~~4.0~~ 0.0
Gorleston	bcprq	bcqpr	bcpr₀q	bcqpr₀	51	44	42	2	<8.00	2	<21.00	3.0
Valentia (Cahirciveen)	bwbc	bc	bw	bbcw	52	35	32	Tr	–	Tr	–	7.4
Roches Point	cbcb	b	bbcw	bcw	52	36	•	–	–	Tr	–	•
Pembroke (St. Ann's H.)	bbcm₀	bc	bm₀	bm₀	49	38	•	–	–	–	–	6.7
Ross-on-Wye	omcbxbcc	c	cbm₀	bmx	47	33	24	–	–	–	–	1.4
Leafield	c	cp₀bcc	bcbw	bx	46	31	28	Tr	15.30	–	–	1.2
Winchester (Worthy Dn)	cbcc	cbcb	b	bbcc	49	33	28	–	–	–	–	3.2
S. Farnborough ...	cbcp₀cc	cp₀bc	b	b	50	36	28	Tr	9.00	–	–	1.6
London (Kew Obsy.) ...	ccz	bcb	b	bw	50	40	34	–	–	–	–	0.8
Croydon	cor₀d₀m₀	cm₀ir₀bm	bbcm₀	bcpr₀bm₀	48	41	36	Tr	<8.00	Tr	4.30	0.0
Shoeburyness	oid₀	oid₀bc	bcr₀	bcb	48	39	36	0.4	<8.00	0.1	<21.00	0.0
Clacton-on-Sea ...	opo	ocbc	bcp	bcp	49	40	35	0.4	9.00	0.6	<21.00	0.3
Felixstowe	cir₀	ccr₀c	crbc	bccr	49	40	36	0.1	<8.00	1	<21.00	0.9
Lympne	c	c.cd₀	bcpr₀	bcpr₀cr₀r₀	49	42	37	Tr	17.30	1	<21.00	0.6
Scilly (St. Mary's) ...	bc	bcc	cbc	bc	51	45	•	–	–	–	–	1.3
Falmouth (Pendennis)	bc	bcc	cbcb	bbc	50	39	•	–	–	–	–	7.2
Plymouth (Cattewater)	bbcq	bqc	cb	bw	52	39	35	–	–	–	–	6.2
Portland Bill	cbc	cbc	b	b	52	40	•	–	–	–	–	•
Southampton (Calshot)	bc	bcc	bbc	bwbcw	50	38	33	–	–	–	–	1.8
Dungeness	c	c	cr₀bc	bcr₀cr₀	52	45	•	–	–	Tr	<21.00	•
Guernsey	cq	cq	cq	cbcq	51	47	•	–	–	–	–	0.1

ISALLOBARS. 9th. November 1928.



Observations from Cross Channel Steamers.

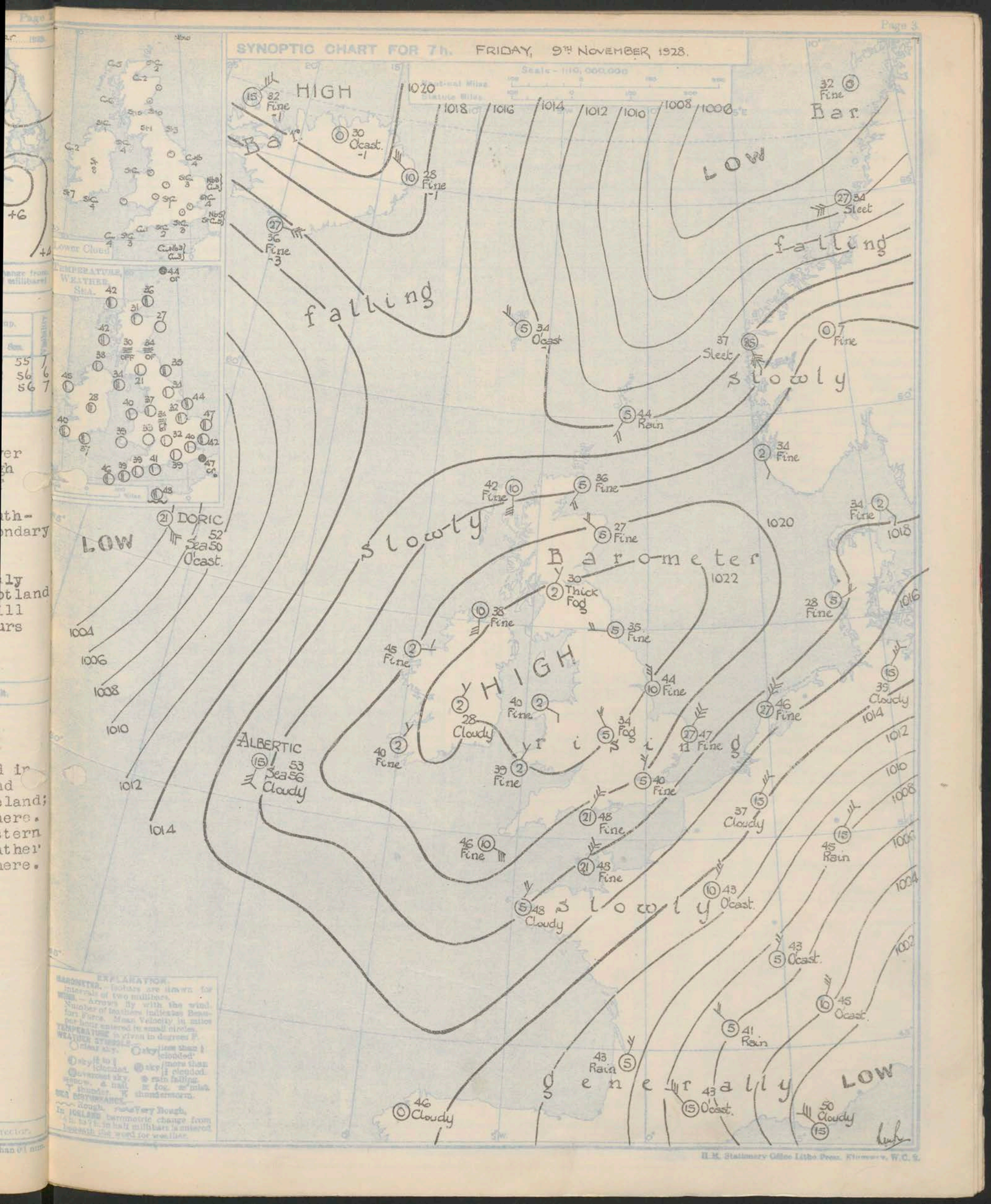
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	10h 8th	Scotia	NE N	5	c	49	55	7
1	12h "	St. Helier	NE	7	c+	52	56	6
3	2h 9th	Dieppe	NE	5	c+	51	56	7

GENERAL INFERENCE.

An anticyclone lies over Central England but a trough of low pressure centred off Northwestern Scandinavia is likely to spread slowly southwards whilst later on secondary depressions seem likely to move southward from Arctic regions. Some rain is likely in Northern and Eastern Scotland but elsewhere conditions will be fair for at least 24 hours with sharp ground frost at night.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 9th November, 1928.	Further Outlook.
1. S.E. England 2. E. England	Fresh northeasterly winds, moderating; fair; rather cold, ground frost at night with mist or fog.	
3. E. Midlands 4. W. Midlands	Light variable winds; fair; rather cold; sharp ground frost at night with mist or fog.	Unsettled in Scotland and Western Ireland; fair elsewhere. Mild in Western Ireland; rather cold elsewhere.
5. S.W. England 6. South Wales	Light variable winds; fair; moderate temperature; mist or fog at night.	
7. North Wales 8. N.W. England	Light to moderate southerly winds; fair; rather cold during day; sharp ground frost at night.	
9. N. Midlands 10. N.E. England	Light variable winds becoming moderate southerly; fair; rather cold during day; ground frost at night.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate variable winds; bright periods to-day, cloudy tomorrow; rather cold.	
13. (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland	Moderate to fresh southerly winds to-day becoming variable: cloudy at first, some rain likely later; rather cold.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate southerly winds, veering to northwesterly; cloudy, some rain; rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate to fresh southerly winds; bright to-day, cloudy to-morrow; some mist or fog to-night.	

WFP.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION Friday 9th. November 1928. No. 314

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 9th. 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. 9th. 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	54	1018·1	-1	W	1	bc	38	75	8	1500	St-Cu	2	A-St	6	1013·4	-1	SW	2	or	44	85	7	1500	Nb	10	-	10	•
Stornoway	50	1019·4	-1	-	0	b-	•	•	8	•	•	•	•	2	1017·1	-2	S	3	bc+	42	85	7	4000	Cu	5	-	5	2
Wick	81	1019·7	-1	W	2	b	32	85	8	2500	Cu	2	-	2	1017·3	-2	SW	2	bc	36	85	8	2500	St-Cu	2	A-Cu	5	0
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·7	0	SSW	4	bc v+	42	85	9	1500	Cu	6	-	6	1
Nairn	85	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·9	•	-	0	b-	31	85	8	2500	Cu	2	-	2	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·8	0	NW	2	b	27	92	6	-	-	0	-	0	0
Malin Head	51	1021·7	+2	S	1	b	36	97	8	5700	St-Cu	2	-	2	1021·1	-1	S	3	b	38	92	8	5700	St-Cu	1	Ci-Cu	1	1
Renfrew	50	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·6	0	NE	1	ffo	30	97	1	<150	St	10	-	10	•
Edinburgh (Inchkeith)	100	1021·3	0	W	3	bc	38	92	6	800	St	3	-	3	1022·1	+2	WSW	3	ifo	34	97	1	220	St	10	-	10	0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·4	+1	-	0	b	29	92	6	-	-	0	-	0	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·7	0	-	0	b	21	97	6	150	St	X1	-	X1	•
Tynemouth	67	1021·6	+2	NW	2	b	38	85	7	1500	St	2	-	2	1022·3	+1	W	2	bc	35	85	6	800	St	3	-	3	1
Blacksod Point ...	18	1020·4	+2	-	0	b	44	75	7	•	-	0	-	0	1019·9	0	E	1	b	45	75	7	•	Cu	2	-	2	3
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·9	0	WSW	1	bc+	34	97	7	5700	St-Cu	4	-	4	1
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·8	•	NE	1	c+	28	92	5	450	St	8	-	8	•
Holyhead	20	1020·9	+3	-	0	b	40	92	6	-	-	0	-	0	1022·8	+1	ESE	1	b	40	92	7	4000	St-Cu	1	-	1	0
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·3	+2	-	0	b	37	85	5	-	-	0	Ci	1	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·5	+2	NWW	1	fb+	25	97	1	-	-	0	-	0	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·8	+1	N	1	b	34	92	8	-	-	0	A-Cu	1	•
Spurn Head	29	1018·8	+1	NNE	4	bc	44	75	7	4000	Cu Nb	4	-	4	1020·8	+2	N	3	bc	44	75	7	4000	Cu Nb	4	A-St	5	2
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·8	+3	NNW	2	fb-	34	92	3	-	-	0	-	0	•
Cranwell	236	1019·6	+1	NW	3	b	37	92	6	-	-	0	-	0	1022·4	+3	NNW	3	bc	32	85	8	4000	St-Cu	3	-	3	
Gorleston	14	1015·7	+2	NE	6	bc pr	46	92	7	1500	Nb	5	-	5	1019·1	+3	NE'N	6	bc	47	85	7	2500	Nb	6	-	6	4
Valentia (Cahirciveen) P	30	1019·9	+2	-	0	b	42	97	7	*	St	10	-	10	1021·5	+1	NE	1	bc	40	97	8	2500	St	7	-	7	1
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·3	+3	N	2	bc	37	85	8	4000	St-Cu	4	-	4	0
Pembroke (St. Ann's H.)	150	1019·7	+3	NE	1	b-	40	92	6	-	-	0	Ci-Cu	1	1021·6	+3	NE	1	b	39	92	8	-	-	0	-	0	0
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·0	+3	-	0	b	33	97	5	-	-	0	-	0	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·3	+4	NNW	3	mb	32	97	4	4000	St-Cu	1	-	1	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·0	+4	NW'N	2	bc-	37	92	7	5700	St-Cu	5	-	5	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·7	+4	N	2	b	39	85	7	-	-	0	A-Cu	1	•
London (Kew Obsy.) ...	18	•	•	•	•	•	41	•	•	•	•	•	•	•	1020·0	+5	N'E	2	b	40	85	6	-	-	0	A-Cu	1	•
Croydon	244	1016·1	+3	NNE	3	bc+	41	85	6	-	-	0	C-St	3	1019·4	+3	N'E	3	b-	41	85	5	-	-	0	A-Cu	1	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·7	+4	N	4	b	40	92	8	-	-	0	A-Cu	1	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·5	+4	NNE	4	bc	42	75	7	4000	St-Cu	4	-	4	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·2	+3	N'E	3	cr	41	85	7	1500	Nb	7	A-Cu	8	2
Lympne	350	1013·7	+2	NE	4	bc pr	45	65	8	2500	Cu Nb	7	-	7	1017·1	+4	NNE	4	cr o	43	92	7	1500	Nb	9	-	9	•
Scilly (St. Mary's) ...	163	1018·4	+2	ENE	4	bc	49	65	7	4000	St-Cu	7	-	7	1021·2	+3	ESE	3	bc	46	75	7	4000	Cu	4	-	4	4
Falmouth (Pendennis)	200	1018·0	+4	NE	3	b	43	85	7	4000	Cu	1	-	1	1020·8	+3	NNE	2	bc+	39	85	7	4000	St-Cu	3	-	3	1
Plymouth (Cattewater)	62	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·8	+3	NNE	4	b	39	97	7	4000	Cu	1	-	1	0
Portland Bill	32	1016·3	+4	N'E	4	b	42	85	8	2500	Cu	1	-	1	1018·9	+4	NNE	3	b	41	85	8	4000	St-Cu	2	-	2	1
Southampton (Calshot)	10	1016·2	+2	N	4	b	40	85	8	2500	St-Cu	1	-	1	1019·5	+3	N	4	bc+	40	85	7	2500	St-Cu	3	-	3	0
Dungeness	20	1012·1	+2	NE	6	bc-	49	65	8	4000	St-Cu	6	-	6	1016·2	+4	NE	5	c o	47	85	8	2500	Nb	10	-	10	5
Guernsey (Fort George) P	205	1015·2	+2	N'E	4	bc-	48	75	7	4000	St-Cu	6	-	6	1018·0	+4	NE	5	bc-	48	85	8	~~2500~~ 1500	Cu Nb	6	-	6	

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-9h.	Temperature. Max. 9h.-17h.	Rainfall.† Night 17h.-9h.	Rainfall.† Day 9h.-17h.	Sunshine. Sunrise to Sunset.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	cs	P c	34	47	1	0.5	3.5
Douglas (I. o. M.) ...	c	bc	39	50	-	-	3.7
Llandudno ...	c	bcb	42	48	-	-	3.7
Colwyn Bay ...	ocb	bbc	41	47	-	-	3.1
Rhyl	bc	bc	40	48	-	-	3.2
Wallasey	fcbc	bcc	38	48	-	-	2.5
Southport	ocbc	bcb	*36	48	-	-	4.2
Blackpool	cbc	bbc	34	47	-	-	3.4
Ilkley	bc	bc	35	47	-	-	3.4
Cleethorpes	c	c	45	48	1	-	3.3
Skegness	cbc	bcpr	41	48	1	2	2.1
Aberystwyth ...	3bc	bc3	40	48	-	-	6.0
Bath	bccb	bbcc	42	49	-	-	4.4
Cheltenham ...	bcc	co	43	48	-	-	1.8
Leamington Spa ...	bccb	cr	39	48	-	0.1	2.4
Lowestoft	cir	cbc	46	50	1	0.5	3.2
Harwich & Dovercourt	ocd	bcpbc	45	49	0.3	Trace	0.9
Maldon	dc	c	42	49	Trace	(Trace)	0.5
Southend	od	oc	43	48	Trace	Trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cbc	bcc	43	48	-	-	2.8
Penzance	b	b3	45	55	-	-	6.3
Paignton	bbc	cog	44	51	-	-	4.7
Torquay	bbc	co	45	52	-	-	4.7
Jersey	ro	g	49	52	1	?	0.0
Weymouth	b	b	43	52	-	-	5.0
Bournemouth ...	b	c	42	50	-	-	4.0
Ventnor ...	c	c	43	49	-	-	1.1
Portsmouth (S'thsea)	obc	co	43	51	-	-	1.1
Bognor	c	cbcc	44	50	-	-	0.4
Littlehampton ...	bc	c	41	53	-	-	0.0
Worthing	c	c	44	49	-	-	0.5
Brighton	c	c	45	50	-	-	0.3
Eastbourne	oc	oc	46	53	0.1	-	1.1
Hastings	cbcc	cbcc	46	51	-	-	0.6
Folkestone	oc	co	47	50	-	-	0.1
Dover	oc	c	48	60	-	-	0.0
Tunbridge Wells ...	o	o	35	48	Trace	-	0.0
Ramsgate	c	co	48	50	-	-	0.2
Margate	cbc	bcc	48	52	-	-	0.6
Deal	o	o	48	51	-	-	0.0

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* Information not usually received. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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. ✠ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,160 Saturday 10TH November 1928.

Observations at 15h. 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	1011·3	-5	W	2	orr	43	92	6	1500	Nb	10	-	10	•
Stornoway	1014·8	-4	SSW	4	c	48	85	7	4000	Cu	3	Ci St	8	•
Wick	1015·8	-2	SW	3	c	44	75	8	2500	StCu	6	Ci St	8	•
Tiree	1018·3	-1	SSW	4	c	47	85	8	1500	StCu	9	-	9	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1018·5	-4	SW	1	b+	44	65	7	4000	StCu	1	Ci	2	/
Malin Head	1019·6	-2	S	4	c⊕	45	97	7	-	-	0	CiSt	8	•
Renfrew	1020·9	0	WSW	1	FFb	32	97	1	-	-	0	-	0	3
Edinburgh (Inchkeith)	1021·5	-3	SW	3	fbc-	43	75	4	220	St	4	Ci	6	•
Leuchars	1019·7	-3	WSW	3	bc+	45	75	6	-	-	0	Ci	7	2
Eskdalemuir	1021·8	-1	S'W	3	bc	41	85	7	2500	Cu	3	-	3	/
Tynemouth	1022·4	0	W	2	bc	46	65	6	800	St	3	-	3	•
Blacksod Point	1018·4	-1	S	4	c	50	85	7	-	-	0	aSt	8	•
Donaghadee	1021·8	+2	SW'W	2	bc+	48	75	8	5700	StCu	4	aCu	6	•
Birr Castle	1021·2	•	SE	1	bc-	49	75	6	450	St	4	Ci	7	•
Holyhead	1023·0	-2	S	2	b	48	65	8	4000	Cu	1	-	1	/
Liverpool (Bidston)	1023·6	-1	SW	2	b	44	65	6	4000	Cu	2	-	2	•
Chester (Sealand)	1023·2	-1	S	1	b+	48	65	6	2500	St	1	-	1	•
Harrogate	1023·0	0	SW	2	b	46	65	8	4000	Cu	1	-	1	•
Spurn Head	1022·3	0	NNW	3	bc	46	85	7	4000	CuNb	3	aCu	5	•
Birmingham (Edgbaston)	1023·2	-1	NNE	2	bc	44	65	5	2500	Cu	5	-	5	2
Cranwell	1023·2	-1	NNW	2	b	45	75	6	4000	Cu	2	-	2	/
Gorleston	1020·5	0	N'E	4	bc/pr₀	50	73	7	1500	Cu	6	-	6	•
Valentia (Cahirciveen)	1021·5	-2	S'E	3	c	50	85	8	1500	StCu	6	aCu	8	3
Roches Point	1023·0	-1	N	2	c	45	85	7	2500	StCu	8	-	8	•
Pembroke (St. Ann's H.)	1022·7	+1	SE'S	2	bc+	48	75	6	2500	Cu	5	-	5	•
Ross-on-Wye	1022·7	+1	N	1	b+	45	75	5	4000	Cu	2	-	2	2
Leafield	1022·7	+2	NNE	4	b+	44	65	8	2500	Cu	1	-	1	/
Winchester (Worthy Dn.)	1021·1	0	N'E	4	b	47	56	8	4000	Cu	1	-	1	/
S. Farnborough	1021·2	0	NE	4	b	49	55	8	2500	Cu	1	-	1	0
London (Kew Obsy.)	1021·5	0	NNE	3	bc+	48	45	7	2500	Cu	3	-	3	/
Croydon	1021·0	0	NE'N	4	bc	47	55	6	4000	StCu	3	-	3	2
Shoeburyness	1020·8	+1	NE'N	5	b	49	85	8	-	-	0	aCu	2	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1020·8	+1	N'E	4	bc	49	65	8	2500	StCu	5	-	5	2
Lympne	1019·2	+2	N'E	5	bc-	49	65	9	2500	Cu	3	-	3	/
Scilly (St. Mary's)	1022·7	0	ENE	2	b	51	68	8	4000	Cu	1	-	1	•
Falmouth (Pendennis)	1021·8	-1	ESE	3	bc	48	65	7	4000	Cu	3	-	3	•
Plymouth (Cattewater)	1022·2	0	ENE	4	b	48	75	8	4000	Cu	1	-	1	/
Portland Bill	1021·3	+1	NNE	3	b	49	65	8	2500	Cu	1	-	1	•
Southampton (Calshot)	1020·8	-1	NE'N	4	b	49	55	7	-	-	0	-	0	0
Dungeness	1018·1	+3	NE	4	bc/r	49	65	8	2500	Cu	4	-	4	•
Guernsey (Fort George)	1020·3	+1	NE	4	c	49	85	8	2500	Cu	8	-	8	•

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	Sea. 0–9
Lerwick	1010·0	+1	W	1	orr	40	~~75~~ 92	6	1500	Nb	10	-	10	•
Stornoway	1011·9	-3	SSW	6	o/pr₀	49	92	7	2500	Nb	10	-	10	5
Wick	1012·9	-4	SW	3	c	44	75	8	2500	StCu	4	aSt	9	0
Tiree	1016·0	-2	SSW	4	c	48	92	8	1500	StCu	10	-	10	1
Nairn	1013·0	•	WSW	3	bc+	44	75	8	2500	CuNb	7	-	7	•
Aberdeen	1016·6	-3	SW'S	3	bc	41	75	5	-	-	0	Ci St	5	0
Malin Head	1018·2	-2	S	5	c	45	75	7	-	-	0	Ci St	8	3
Renfrew	1019·9	-1	SW	1	o	42	85	5	5700	St	10	-	10	•
Edinburgh (Inchkeith)	1019·6	-2	WSW	3	bc	44	85	7	1500	St	4	aCu	5	1
Leuchars	1018·5	-2	SW	3	bc	40	85	5	-	-	0	Ci	7	•
Eskdalemuir	1020·8	-2	S'W	2	b-	35	97	5	1500	St	2	-	2	•
Tynemouth	1021·9	0	W	2	ffbc	42	75	3	800	St	4	-	4	1
Blacksod Point	1016·3	-2	S	5	c	52	92	7	*	CuNb	8	-	8	6
Donaghadee	1021·0	-1	SW	2	c	44	75	7	5700	StCu	5	aSt	8	1
Birr Castle	1020·5	•	SE	2	c+	44	92	5	800	St	6	aSt	9	•
Holyhead	1022·6	-1	SSW	3	bc	46	65	7	4000	StCu	7	-	7	0
Liverpool (Bidston)	1023·5	+1	SSW	2	bc+	42	75	7	2500	Cu	2	CiSt	3	•
Chester (Sealand)	1023·0	+1	S	1	b	34	92	5	-	-	0	Ci	1	•
Harrogate	1023·6	0	SW	2	b	36	85	7	-	-	0	-	0	•
Spurn Head	1022·5	0	NW'W	3	bc	45	85	7	5700	StCu	3	-	3	3
Birmingham (Edgbaston)	1024·5	+1	NW	1	fb+	39	75	2	-	-	0	-	0	•
Cranwell	1024·1	+2	-	0	b-	35	92	6	2500	St	1	-	1	•
Gorleston	1022·0	+3	NW'N	2	bc	45	85	7	2500	Nb	3	aSt	5	1
Valentia (Cahirciveen)	1020·1	-1	S'E	3	c	51	85	8	1500	StCu	9	-	9	0
Roches Point	1022·1	0	N	1	c	49	85	8	2500	StCu	9	-	9	0
Pembroke (St. Ann's H.)	1023·2	+2	S	2	bc+	47	75	7	1500	Cu	7	-	7	0
Ross-on-Wye	1023·7	+2	-	0	ffb	36	92	4	-	-	0	-	0	•
Leafield	1024·3	+1	NNW	1	b	37	85	7	-	-	0	-	0	•
Winchester (Worthy Dn.)	1022·9	+3	NW'N	2	b	36	92	8	-	-	0	-	0	•
S. Farnborough	1023·1	+4	N	1	b	38	85	6	-	-	0	-	0	•
London (Kew Obsy.)	1023·6	+3	N	2	c	44	75	5	2500	StCu	8	-	8	•
Croydon	1022·7	+3	NNE	3	fb-	43	75	3	-	-	0	-	0	•
Shoeburyness	1022·8	+2	NE	2	b-	38	97	8	5700	Cu	1	-	1	•
Clacton-on-Sea	1022·4	+2	NNW	3	bc	43	75	6	4000	StCu	4	-	4	1
Felixstowe	1022·4	+2	N'W	3	b	43	75	7	2500	Cu	2	-	2	1
Lympne	1021·6	+3	N'W	3	b	41	85	7	4000	StCu	1	-	1	•
Scilly (St. Mary's)	1023·8	+1	SE	1	bc	46	65	8	4000	Cu	5	Ci	7	1
Falmouth (Pendennis)	1023·1	+1	-	0	bc+	46	65	7	4000	StCu	5	-	5	0
Plymouth (Cattewater)	1023·7	+2	NE	3	b	43	85	6	-	-	0	-	0	0
Portland Bill	1022·8	+3	NNE	2	b	43	75	6	2500	Cu	1	-	1	2
Southampton (Calshot)	1023·0	+3	N	2	b	44	75	6	-	-	0	-	0	0
Dungeness	1021·4	+4	NNE	2	bc-	42	85	8	4000	StCu	3	-	3	2
Guernsey (Fort George)	1022·4	+4	NNE	2	bc-	49	75	7	2500	Cu	3	-	3	3

LONDON OBSERVATIONS. Day 7h–18h., Kew & Croydon. 9h–18h., Kensington. 9h–21h., other stations.

Station	Height above M.S.L. in feet.	Weather Morning (24 hours ended 9h.)	Weather Afternoon	Weather Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bwby	bcz₀cz₀	bmwoffx	49	29	22	-	Tr	7·5	*	*	0
Croydon	244	bbcm₀z	bcz₀eff	ffzbFFx	48	28	23	-	-	5·0	*	*	5
Greenwich (Royal Obsy.)	149	cb	bcb	bmFx	50	27	19	-	Tr	6·1	64	91	1
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	5·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	50	30	26	-	-	5·9	72	90	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	6·6	*	*	*
Camden Square	110	bc	c	*	41	32	*	-	-	*	*	100	*
Kensington Palace	80	b	bc	*	49	31	23	-	-	*	(At 18h) 83	89	*
Hampstead Observatory	450	*	*	*	47	28	18	Tr	Tr	7·6	*	99	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 10TH

South Kensington Max.	Time.	Min.	Time.
0·6	3h 10th	0·3	12h 9th

Kew Observatory Max.	Time.	Min.	Time.
0·7	22h 9th	<0·1	12h 9th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 9TH 17 h 30 m. to 10TH 6 h 00 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	12·30	9·52	79
δ Ursae Minoris	12·30	9·07	73

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.

10TH & 11TH November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·8	11.37	16·6
	7·10	11.37	16·4
Greenwich	7·11	11.44	16·16
	7·13	11.44	16·15
Wick	7·51 / 7·54	11·56 / 11·56	16·0 / 15·58
Valentia	7·53 / 7·55	12·25 / 12.25	16·56 / 16·54

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. ⁞ 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 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.

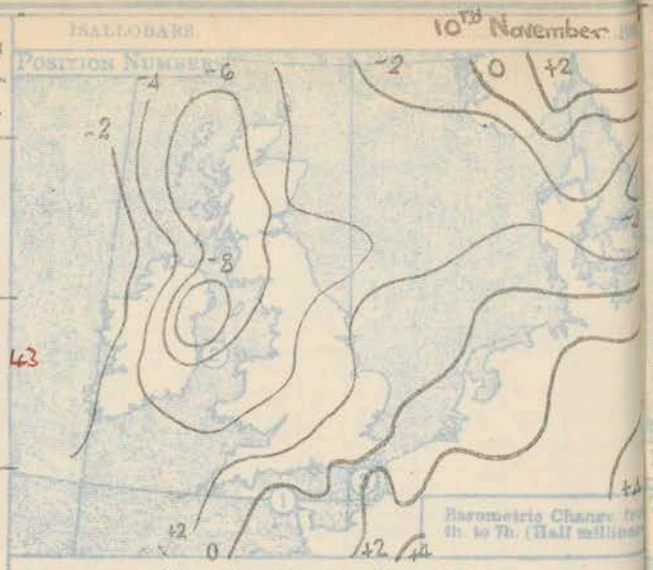
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent 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. 9th	Weather. 18h.-18h. 9th	Weather. 18h. 9th to 1h. 10th	Weather. 1h.-7h. 10th	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	30th 9th Hours.
Lerwick	orrmo	orrmo	ofofo	ofofo	45	36	•	22	<8·00	4	<21·00	0·0
Stornoway	c	opro	f-d	r-d	49	48	•	Tr.	17·30	14	<21·00	0·5
Wick	c	c	orr	orrfo	44	36	•	-	-	1	24·00	•
Tiree	bcc	co	cfo	forrq	48	47	45	-	-	10	24·00	1·3
Nairn	bbc	bc	bcqc	qdc	44	43	•	-	-	Tr	3·30	4·4
Aberdeen	bxmomb	bbczo	cb,c	ccirc	45	40	34	-	-	Tr	6·30	5·3
Malin Head	bbcc	c	c	cfofo	46	43	•	-	-	4	1·30	4·2
Renfrew	oFFb	bFbc	ozb	borr	43	39	35	Tr.	-	3	5·30	0·1
Edinburgh (Inchkeith)	cFf	bccbc	bbc	bcc	47	~~[illegible]~~	38	-	-	Tr	6·30	4·1
Leuchars	bxmobc	bcmo-c-bcv	cmobc	c,rcirc	45	38	33	0·1	-	0·4	3·30	4·5
Eskdalemuir	bxfbc	bcabcmo	b,cxmo	bccorrmo	42	34	30	-	-	1	6·30	4·0
Tynemouth	bcmo	bcm	bcmm	bc	47	37	~~28~~ 30	-	-	-	-	•
Blacksod Point ...	bc	c	cK	Rc	53	51	•	-	-	17	•	•
Donaghadee	bc	bcc	bbcc	irofr	49	41	•	-	-	3	3·30	•
Birr Castle	cbcmo	bccmo	cmo	orrmo	49	39	30	-	-	4	3·30	4·6
Holyhead	b	bbcv	bcmo	cmo	49	45	42	-	-	0·1	6·30	6·4
Liverpool (Bidston) ...	mobzo	bzob	bcbwx	bxcmo	45	34	29	-	-	-	-	6·9
Chester (Sealand) ...	bFfmmo	czo	bmox	bbcmox	48	28	20	-	-	-	-	5·5
Harrogate	b	b	b	bbcc	47	34	28	-	-	-	-	7·4
Spurn Head	bcprobc	bc	bcfbcz	bc	48	37	•	Tr.	11·00	-	-	5·1
Birmingham (Edgbaston)	mbbc	bcbmf	bffx	bfxbc	44	32	19	-	-	-	-	3·6
Cranwell	bmo	bbxc	bbc	bcxmo	45	30	22	-	-	-	-	7·1
Gorleston	bcqpr	bcqprso	bcbmo	bcmowx	50	32	30	2	<8·00	Tr	-	4·5
Valentia (Cahirciveen)	bcc	c	c	cir	51	50	49	Tr.	-	7	24·00	1·9
Roches Point	bbcc	c	cbcodo	oirorr	51	48	•	-	-	5	22·00	•
Pembroke (St. Ann's H.)	bbcmo	bcmo	bbcq	c	49	47	•	-	-	-	-	6·7
Ross-on-Wye	bmz	bcbzm	bmbfx	bfxbmx	47	25	18	-	-	-	-	6·0
Leafield	b	bcb	bx	bbcx	45	29	15	-	-	-	-	6·2
Winchester (Worthy Dn.)	bcb	byb	bx	bxif	48	22	14	-	-	-	-	8·1
S. Farnborough ...	bby	bybmo	bmox	bmwxofbm	49	20	15	-	-	Tr	~~<8·00~~	8·2
London (Kew Obsy.) ...	bwby	bczoczo	bmw	oFfx	49	29	22	-	-	Tr	-	7·5
Croydon	bbcmoz	bczoeff	bffx	bfFFx	48	28	23	-	-	-	-	5·0
Shoeburyness	b	bcb	b	Dffx	51	25	19	-	-	-	-	7·8
Clacton-on-Sea ...	bc	bc	bcb	bbc	49	33	28	-	-	-	-	7·5
Felixstowe	crbc	bcb-cbrb	b	bFx	50	29	27	0·2	<8·00	-	-	7·4
Lympne	crobbc	bcprobb	b	bmox	49	33	21	1	<8·00	-	-	6·7
Scilly (St. Mary's) ...	bcb	bbc	bc	bbc	52	43	•	-	-	-	-	7·3
Falmouth (Pendennis)	bc	bc	bc	bcc	49	40	•	-	-	-	-	7·6
Plymouth (Cattewater)	bwmo	bmo	bmo	bmmxb	49	33	28	-	-	-	-	7·9
Portland Bill	b	bzo	bzo	bbczo	49	41	•	-	-	-	-	•
Southampton (Calshot)	b-by	bybmo	bwx	bxbc	50	31	23	-	-	Tr	-	8·2
Dungeness	cbrcbc	bc	bcbbw	bccfx	51	31	•	1	<8·00	-	-	•
Guernsey	bcaq	cbc	bc	bc	50	44	•	-	-	-	-	3·3



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	10h 9th	Scotia	SSE	4	bc	49	54

GENERAL INFERENCE.

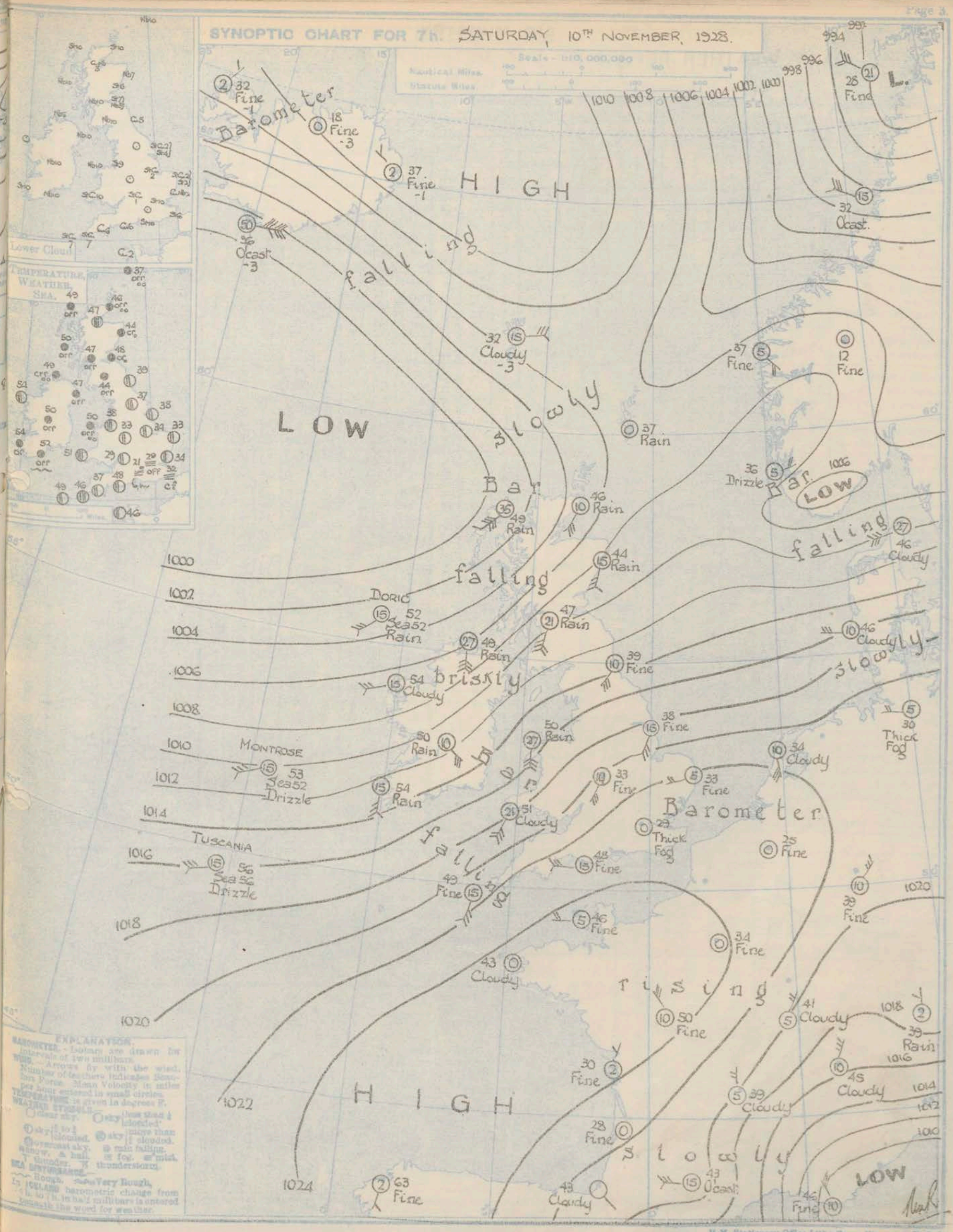
A depression centred off Western Scotland is moving eastward. Mild, unsettled conditions will become general with rain and winds from a southerly or southwesterly point, strong at times.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 10th November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh southerly winds, veering to westerly later; cloudy, some rain to-day brighter intervals to-morrow with some showers; mild.	Unsettled.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Fresh southwesterly to westerly winds; cloudy, some rain at first, brighter intervals to-night and to-morrow with some showers; mild.	
10. N.E. England 11. S.E. Scotland	As 1 - 4.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland	As 5 - 9.	
15. N.E. Scotland 16. Orkneys and Shetlands	Fresh to strong southerly winds backing to south-easterly; dull, rain to-day, brighter intervals to-morrow; mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Fresh to strong southwesterly to westerly winds; cloudy, some rain at first, brighter intervals with showers later; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0915 G.M.T. G. C. Simpson, 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... Saturday, 10th November 1928. No. 315

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	Low. Form	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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sun. 0-9
Lerwick	54	1008·6	-1	~~NNW~~ N	1	or.f.	39	85	7	1500	Nb	10	-	10	1006·7	-3	-	0	or.f.	37	97	7	1500	Nb	10	-	10	•
Stornoway	30	1008·3	-4	WSW	4	crf	•	•	6	•	•	•	•	10	1000·4	-7	SW	7	orr	49	97	6	800	St	10	-	10	5
Wick	81	1009·2	-2	WSW	2	orr	45	97	8	1500	St	10	-	10	1005·0	-5	SW	3	or.f.	46	97	7	1500	St	10	-	10	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·8	-7	SW'S	6	orr	50	97	6	450	Nb	10	-	10	4
Nairn	93	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·6	•	WSW	1	c	47	85	8	2500	Cu Nb	8	-	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1008·8	-3	SSW	4	cr.	44	85	7	2500	Nb	7	A St	10	0
Malin Head	51	1012·1	-6	S	6	c	46	75	7	5700	St Cu	9	~~A St~~ C St	10	1005·5	-3	S'W	6	cr.f.	49	92	6	4000	Nb	6	A St	9	4
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1009·6	-6	SSW	5	orr	47	92	6	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	190	1015·4	-4	WSW	3	bc	44	75	8	1500	St	5	-	5	1009·5	-7	SSW	4	or.	48	85	8	800	St	10	-	10	2
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1009·6	-6	SW	4	cr.	46	85	7	1500	St	5	A St	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1012·0	-6	SSW	5	orr	44	97	6	450	Nb	10	-	10	•
Tynemouth	67	1018·5	-2	SW	2	bc/m	41	85	6	800	St	3	-	3	1013·8	-4	SW	~~4~~ 3	bc	39	92	6	1500	Cu	5	-	5	1
Blacksod Point ...	16	1011·3	-4	S	6	orR	53	85	6	•	Nb	10	-	10	1007·0	-2	WSW	4	c	54	92	7	•	-	0	A St	10	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1011·7	-9	SW	4	orr	47	92	7	1500	Nb	10	-	10	3
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1011·1	•	SE	3	orr	50	97	6	800	Nb	10	-	10	•
Holyhead	26	1019·5	-3	SSW	5	bc	50	65	6	4000	St Cu	7	-	7	1015·0	-4	S'W	6	or.f.	50	85	6	1500	Nb	10	-	10	4
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1017·3	-4	S	4	c	38	85	6	4000	St	9	A Cu	9	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1017·7	-5	S	4	c+	35	85	6	4000	St Cu	6	Cu	8	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1016·6	-3	SSW	4	c	37	85	6	-	-	0	A St	9	•
Spurn Head	29	1021·5	-1	SW'W	3	bc-	41	85	6	1500	St	4	-	4	1019·2	-1	SW'S	4	bc+	38	92	6	2500	St	6	-	6	2
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·3	-3	SSW	3	bc+	33	85	5	-	-	0	A St	6	•
Cranwell	235	1024·2	0	WSW	3	bc	33	92	5	-	-	0	-	0	1021·6	-3	SSW	3	bc+	34	85	5	2500	St Cu	2	Cu	5	•
Gorleston	14	1022·7	-1	W'N	3	b+	37	97	6	2500	Nb	2	-	2	1022·2	0	W'S	2	bc	33	97	5	1500	St	4	-	4	0
Valentia (Cahirciveen) ‖	30	1015·9	-5	SW	5	or+	52	97	7	-	St	10	-	10	1012·8	-3	S	4	or	54	97	7	450	St	10	-	10	4
Roches Point	32	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·5	-4	SW	4	orr	52	97	7	800	Nb	10	-	10	6
Pembroke (St. Ann's H.)	150	1024·9	-1	SW'S	4	c+	49	75	8	1500	St Cu	6	A St	9	1018·1	-4	SW	5	c	51	85	8	800	St Cu	10	-	10	4
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·0	-3	-	0	bc+	28	97	5	-	-	0	Cu Cu	7	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·6	-2	SSW	3	bc	29	92	5	5100	St Cu	1	Cu St	4	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·6	-1	SE	1	ifbc	24	97	3	4000	St Cu	1	Cu	4	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·7	0	-	0	fb-	21	97	4	-	-	0	A St	2	•
London (Kew Obsy.) ...	18	•	•	•	•	•	34	•	•	•	•	•	•	•	1023·9	0	-	0	FFo	29	97	1	<150	St	10	-	10	•
Croydon	244	1024·2	0	-	0	fb+	31	97	2	-	-	0	-	0	1023·6	-1	SW	1	FFb	28	97	1	-	-	0	-	0	
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·5	0	-	0	FFo	27	97	0	<150	St	10	-	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·8	-1	NW	4	bc	34	85	6	4000	Cu Nb	2	A Cu	4	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·9	0	NW'N	1	fb-	30	85	3	-	-	0	A Cu	2	0
Lympne	350	1022·8	0	N	3	b.	36	92	7	4000	St Cu	1	-	1	1023·3	+2	NE	1	b	34	97	6	4000	Cu Nb	1	Cu	2	•
Scilly (St. Mary's) ...	163	1023·7	0	SSW	3	bv	~~38~~ 43	75	9	-	-	0	-	0	1021·3	-3	SSW	4	bc+	49	85	8	4000	St Cu	7	-	7	4
Falmouth (Pendennis)	200	1023·8	0	NE	1	bc	40	92	7	4000	St Cu	3	-	3	1021·5	-2	SSW	3	c	46	85	8	4000	St Cu	7	A St	9	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·4	-1	NE	1	bc+	37	92	8	2500	Cu	6	C St	7	0
Portland Bill	52	1023·4	0	E	1	b	46	75	6	-	-	0	-	0	1023·6	0	W	4	bc-	48	65	6	2500	Cu	6	A Cu	6	1
Southampton (Calshot)	19	1024·0	-1	NNW	1	b	35	92	7	-	-	0	-	0	1023·3	-1	-	0	ifo	32	97	2	<150	St	10	-	10	0
Dungeness	20	1021·4	0	N	1	b	35	97	8	-	-	0	-	0	1023·4	+2	N	1	fc	32	97	3	220	St	6	Cu Cu	8	0
Guernsey (Fort George) ‖	295	1024·0	0	-	0	bc	40	92	6	2500	St Cu	4	-	4	1024·1	+1	W	2	bc	46	75	8	2500	Cu	2	Cu	3	1

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 9th November 1928

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. to 9h. 9th	Temperature. Max. 9h.-17h. 9th	Rainfall.† Night 17h.-9h. 8th-9th	Rainfall.† Day 9h.-17h. 9th	Sunshine. Sunrise to Sunset. 9th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bx	b	30	45	Trace	-	6.5
Douglas (I. o. M.) ...	xbcc	c	35	49	-	-	4.1
Llandudno ...	b	b	31	49	-	-	7.0
Colwyn Bay ...	b	b	31	49	-	-	7.9
Rhyl	bc	bc	28	50	-	-	3.2
Wallasey	xf.b	bbcb	32	50	-	-	5.2
Southport	x'b3m	bcofbf	*29	43	-	-	4.2
Blackpool	fxc	bbc	29	48	-	-	6.7
Ilkley	fxb	b	31	48	-	-	5.9
Cleethorpes	bo	bo	40	47	Trace	-	4.6
Skegness	bcb bc	bc	44	48	Trace	(Trace)	5.7
Aberystwyth ...	xZb	bbc	30	46	-	-	7.9
Bath	mb	b	32	48	-	-	7.7
Cheltenham ...	bxmb	bm	30	46	-	-	6.3
Leamington Spa ...	bc	cbm	31	47	-	-	5.5
Lowestoft	cbcc	bccr	45	48	0.1	0.3	3.7
Harwich & Dovercourt	rbc	bcb	40	50	1	0.1	7.7
Maldon	b	bbc	40	49	-	-	6.5
Southend	b	b	40	49	Trace	-	7.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	wbcb	b	34	45	-	-	8.0
Penzance	b	b3	39	52	-	-	7.2
Paignton	bw3	bm	38	49	-	-	7.1
Torquay	bmw	bm	39	49	-	-	7.9
Jersey	bc	bc	47	48	-	-	4.5
Weymouth	b	b	38	50	-	-	8.7
Bournemouth ...	b	b	35	49	-	-	8.3
Ventnor ...	b	b3	38	48	-	-	7.3
Portsmouth (S'thsea)	b	b	38	51	-	-	7.2
Bognor	b	b	40	49	-	-	7.5
Littlehampton ...	b	b	39	49	-	-	7.9
Worthing	b	b	40	50	-	-	7.2
Brighton	bbc	bcb	40	51	-	-	7.[illegible]
Eastbourne	cbcb	bm	41	51	0.3	-	6.[illegible]
Hastings ‖	cbcb	bbcb	41	50	1	-	6.5
Folkestone	cirbc	bcr	44	51	3	0.2	5.3
Dover	bccrb	cbcb	45	51	4	1	4.6
Tunbridge Wells ...	mbbc	bcbm	40	51	Trace	-	7.6
Ramsgate	bcb	bbc	46	51	1	-	5.9
Margate	bcb	bcbzc	46	51	Trace	Trace	5.8
Deal	noc	bccfc	45	50	3	Trace	3.1

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. ‖ The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. ♦ 12h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24461 Sunday, 11th November 1928.

Observations at 13h. 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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1004·0	-3	ESE	2	cjp	42	85	8	1600	CuNb	7	ASt	10	•
Stornoway	999·8	+2	W	1	c	52	92	7	4000	Cu	2	ACu	8	•
Wick	1001·4	-4	SSW	2	oToTo	47	92	8	1500	St	10	-	10	•
Tiree	1002·7	0	W	6	oTo	52	97	7	800	Nb	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	1002·6	-6	SSW	3	orr	46	92	6	1500	Nb	10	-	10	2
Malin Head	1005·6	0	W'N	6	c/pTo	53	92	7	4000	CuNb	9	-	9	•
Renfrew	1004·5	-3	SW	5	od	51	92	6	800	Nb	10	-	10	2
Edinburgh (Inchkeith)	1003·5	-5	SW	4	cTr	50	92	7	1500	Nb	8	-	8	•
Leuchars	1003·1	-7	SW	4	cT	49	92	7	800	Nb	2	ASt	10	2
Eskdalemuir	1005·4	-7	SW	5	odd	48	97	6	450	Nb	10	-	10	2
Tynemouth	1007·7	-6	SSW	2	oTo	43	92	5	1500	Nb	10	-	10	•
Blacksod Point	1009·9	+4	WSW	4	c	53	85	8	*	-	0	ASt	9	•
Donaghadee	1007·9	-2	W	4	bc-	54	85	7	2500	CuNb	7	-	7	•
Birr Castle	1011·1	*	SW	3	c/r	54	92	6	1500	Nb	9	-	9	•
Holyhead	1010·2	-5	SW'S	5	c/d	54	92	6	800	St	9	-	9	2
Liverpool (Bidston)	1011·4	-9	S	4	c-	48	85	8	1500	StCu	9	-	9	•
Chester (Sealand)	1011·9	-8	S	4	c/r	48	85	6	1500	St	10	-	10	1
Harrogate	1011·2	-5	SSW	5	cTo	44	85	5	2500	Nb	9	ASt	10	•
Spurn Head	1014·7	-4	S'W	5	oTo+	42	85	7	4000	Nb	10	-	10	•
Birmingham (Edgbaston)	1016·6	-5	SSW	4	cT-	40	97	5	2500	Nb	6	ASt	10	2
Cranwell	1017·0	-7	SW'S	4	oToTo	42	92	7	4000	St	10	-	10	1
Gorleston	1019·6	-2	SW	4	c	44	85	6	5700	StCu	9	-	9	•
Valentia (Cahirciveen)	1014·2	+1	WSW	3	c	54	92	8	1500	St	10	-	10	2
Roches Point	1014·3	-3	SW	3	odd	54	97	7	800	St	10	-	10	•
Pembroke (St. Ann's H.)	1013·7	-5	SW	6	oRR	53	92	4	450	St	10	-	10	•
Ross-on-Wye	1016·7	-5	SW'S	4	c/r	45	85	6	2500	Nb	6	ASt	10	2
Leafield	1019·4	-3	SW'S	4	oT+	40	92	6	1500	Nb	10	-	10	2
Winchester (Worthy Dn.)	1020·4	-4	S'E	3	c	46	75	6	4000	StCu	3	ASt	10	1
S. Farnborough	1020·4	-3	SW'S	3	c+	47	75	6	-	-	0	ASt	10	0
London (Kew Obsy.)	1021·2	-4	SSW	4	c	45	75	5	-	-	0	ASt	10	1
Croydon	1021·1	-4	SW'W	4	c+	47	65	6	7200	St	7	ASt	9	2
Shoeburyness	1021·4	-3	SW	3	c+	47	75	6	5700	StCu	3	ASt	8	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	1020·7	-3	SSW	4	c	47	65	6	-	-	0	CiSt	9	1
Lympne	1021·8	-2	SW	3	c+	47	55	7	7200	StCu	6	ACu	9	1
Scilly (St. Mary's)	1019·4	-2	SW'S	6	c	52	92	6	4000	StCu	10	-	10	•
Falmouth (Pendennis)	1019·2	-3	SW	5	cTo+	52	85	7	2500	Nb	8	ASt	10	•
Plymouth (Cattewater)	1020·1	-3	SW	6	cToTo	52	85	7	2500	Nb	8	ASt	10	1
Portland Bill	1020·5	-2	SW'W	5	c	53	65	8	1500	St	4	ASt	10	•
Southampton (Calshot)	1021·3	-4	SW	4	c+	51	85	8	4000	StCu	6	ACu	9	0
Dungeness	1022·6	-3	SSW	3	c+	50	65	7	4000	StCu	5	ASt	9	•
Guernsey (Fort George)	1023·1	-1	WSW	4	bc	51	75	8	2500	Cu	4	ACu	7	•

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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1006·4	+2	E'S	3	cjp	43	75	8	1500	CuNb	5	ASt	10	•
Stornoway	1002·6	+3	WNW	2	c	50	92	7	4000	StCu	6	ACu	8	1
Wick	1002·5	+4	NW	1	c/r	45	97	8	1500	Nb	6	CiSt	8	0
Tiree	1006·4	+4	WNW	5	cjp	50	92	7	800	CuNb	9	-	9	4
Nairn	1003·4	*	-	0	c/r	49	92	7	1500	CuNb	9	-	9	•
Aberdeen	1002·4	+2	W	1	bc/r	48	97	6	2500	Nb	3	-	3	0
Malin Head	1009·1	+4	W'N	5	bcjp	50	75	7	4000	CuNb	3	-	3	4
Renfrew	1006·4	+3	W	4	c	51	85	7	1500	StCu	8	-	8	•
Edinburgh (Inchkeith)	1003·5	0	WSW	4	bc	51	85	8	1500	StCu	3	-	3	2
Leuchars	1003·3	+1	W	2	bc+	47	97	8	4000	StCu	7	-	7	•
Eskdalemuir	1006·2	+2	NW	5	bc-	49	85	8	1500	StCu	6	-	6	•
Tynemouth	1005·7	0	W	2	bc/r	50	92	7	1500	Cu	6	-	6	1
Blacksod Point	1011·2	+2	S	2	c	52	92	7	*	-	0	ASt	10	3
Donaghadee	1010·2	+4	WNW	4	bc	50	75	8	4000	Cu	3	CiSt	5	3
Birr Castle	1012·5	*	W	2	c	51	92	6	800	St	8	ACu	9	•
Holyhead	1012·1	+3	W'S	5	bc	53	75	7	4000	Cu	4	-	4	2
Liverpool (Bidston)	1011·4	+1	WNW	5	b-	50	92	8	2500	StCu	1	-	1	•
Chester (Sealand)	1011·5	+2	WNW	5	c	52	85	7	1500	St	7	ASt	10	•
Harrogate	1009·2	0	SW'W	4	b	48	85	7	4000	Nb	1	-	1	•
Spurn Head	1010·0	-4	SW'S	6	cToTo	46	92	6	4000	Nb	8	ASt	10	3
Birmingham (Edgbaston)	1012·3	-3	SSW	4	oToTo	46	97	5	2500	Nb	10	-	10	•
Cranwell	1012·5	-4	SW'W	5	cdo	46	92	6	800	StCu	8	-	8	•
Gorleston	1015·4	-4	SW'S	4	oTo+	44	97	7	800	Nb	10	-	10	0
Valentia (Cahirciveen)	1014·8	+1	SW'W	3	odo	54	97	5	<150	St	10	-	10	4
Roches Point	1015·1	+1	W	2	c	54	97	8	1500	StCu	9	-	9	2
Pembroke (St. Ann's H.)	1013·7	+2	WSW	5	odo	55	92	5	800	St	10	-	10	4
Ross-on-Wye	1013·6	-3	SSW	4	odd	50	97	6	1500	Nb	10	-	10	•
Leafield	1014·8	-4	SW'S	5	od (corrected in red)	45	97	5	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	1017·2	-4	SSW	4	cT	48	92	8	1500	Nb	8	ASt	10	•
S. Farnborough	1016·8	-4	SSW	5	cToTo	41	97	6	1500	Nb	8	ASt	10	•
London (Kew Obsy.)	1017·2	-4	SW'S	4	oTo+	45	92	5	800	Nb	10	-	10	•
Croydon	1017·4	-4	SW'W	4	cToTo	47	92	6	1500	Nb	10	-	10	•
Shoeburyness	1017·2	-3	SW	3	oToTo	47	97	5	1500	St	10	-	10	•
Clacton-on-Sea	1017·3	-3	SW	5	orr	46	92	6	4000	St	10	-	10	2
Felixstowe	1016·8	-5	SSW	5	orr	47	85	7	1500	Nb	10	-	10	4
Lympne	1018·7	-3	SW	4	oToTo	46	92	5	800	Nb	10	-	10	•
Scilly (St. Mary's)	1018·1	+1	SW'W	5	o (corrected in red)	54	97	5 (corrected in red)	800	St	10	-	10	7
Falmouth (Pendennis)	1018·2	0	S'W	4	oToTo	53	97	6	2500	Nb	10	-	10	1
Plymouth (Cattewater)	1018·0	-2	WSW	6	odd	53	97	5	450	Nb	10	-	10	5
Portland Bill	1017·1	-5	SSW	7	oToTo	53 (3 in red)	92	6	1500	Nb	10	-	10	6
Southampton (Calshot)	1017·9	-3	WSW	6	cToTo	50	85	7	2500	Nb	7	ASt	10	0
Dungeness	1017·9	-4	SW	5	oToTo	50	85	7	2500	Nb	10	-	10	5
Guernsey (Fort George)	1022·3	-1	SW	4	cTo ro (red)	50	92	7	1500	Nb	8	ASt	10	4

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

Station	Heights above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 hours ending 9h)	Temp. Max. Day °F.	Temp. Min. Night °F.	Temp. 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 9h
Kew	18	ofxom	cGr	crmc	47	47	44	tr (red)	1	0·2	*	*	2
Croydon	244	bFBbcr	c2or	crodm	47	47	43	1	2	2·4	*	*	
Greenwich (Royal Obsy.)	149	c+@c	crd	cdrom	50	50	43	1	1	2·0	71	91	4
City (Bunhill Row)	80	*	*	*	*	* (7? in red)	*	*	*	0·2	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	52	~~48~~	44	2		0·6	75	89	•
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	1·2	*	*	•
Camden Square	110	xfc	cor	*	46	46	*	1	2	*	*	94	•
Kensington Palace	80	fov	or	*	47	? (red)	45	1	2	*	(At 18h) 82	93	•
Hampstead Observatory	450	*	*	*						1·2	*		-

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
2·6	10th 10h	<0·3	11th 3h

Kew Observatory

Max.	Time.	Min.	Time.
1·2	10th 11h	<0·1	11th 2h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 10th 17 h 15 m. to 11th 6 h 15 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 0	NIL	—
δ Ursae Minoris	13 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 = Scaling 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.

11th - 17th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·10 / 7·11	11·37 / 11·37	16·4 / 16·2
Greenwich	7·13 / 7·14	11·44 / 11·44	16·15 / 16·13
Wick	7·54 / 7·56	11·56 / 11·57	15·58 / 15·56
Valentia	7·55 / 7·57	12·25 / 12·25	16·54 / 16·53

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, 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.

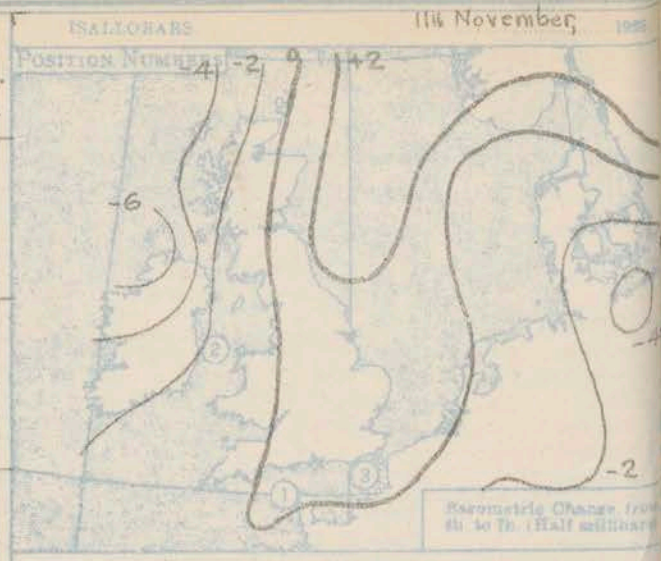
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

† 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. 10h.	Weather. 13h.-19h. 10h.	Weather. 19h.-7h. 10h. to 11h.	Weather. 1h.-7h. 11h.	Temperature. Max. Day. 7h.-19h.	Temperature. Min. Night. 19h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-19h. mm.	Rainfall† Day. 7h.-19h. began.	Rainfall† Night. 19h.-7h. mm.	Rainfall† Night. 19h.-7h. began.	24 Hrs. ending 10h. Hours.
Lerwick	cpr₀	cpr₀	c	c	43	41	•	0·6	<8·00	-	-	0·0
Stornoway	p	c	c	r-d	52	45	•	0·4	<8·00	1	3·30	0·1
Wick	o r₀ r	cr₀ r	cpr₀c	bbc	48	39	•	3	<8·00	1	<21·00	•
Tiree	r₀ c r₀	r₀ c	cd₀	Rc	54	49	46	3	<8·00	1	24·00	0·3
Nairn	cPR	cpr	cdbc	cbc	49	40	•	4	<8·00	0·3	22·00	0·0
Aberdeen	rr₀rrm₀	orrcrbm₀	bm₀cbc	bbcw	48	39	30	9	<8·00	-	-	0·0
Malin Head	cirr₀	cpr₀	bcjpcor₀	cr₀r₀	53	43	•	4	<8·00	2	<21·00	0·0
Renfrew	orr₀cr₀	cr₀c	cd₀c	com₀d₀	52	46	44	6	<8·00	0·1	<21·00	0·3
Edinburgh (Inchkeith)	oir₀rr	cbc	bcco	cbc	52	46	43	1	<8·00	-	-	1·1
Leuchars	cir₀r	r₀cbcb	bcb	bbc	51	42	37	2	<8·00	-	-	0·0
Eskdalemuir	orr₀dm₀	oirdm₀c	bccid	ccm₀	49	42	41	22	<8·00	0·1	<21·00	0·0
Tynemouth	or₀r₀m	oir₀	bcq	bc	50	46	41	2	<8·00	-	-	•
Blacksod Point ...	c	p₀o	o	or	(54) 53	51	•	Tr	•	0·4	•	•
Donaghadee	Trirc	bcq	c	cpr₀c	54	45	•	5	<8·00	Tr.	3·30	•
Birr Castle	orrm₀	cm₀	oid₀	oid₀	54	49	46	4	<8·00	0·2	<21·00	0·0
Holyhead	r₀r₀rRd	pr₀	bccm₀r₀	r₀c	55	51	49	10	<8·00	0·1	24·00	0·0
Liverpool (Bidston) ...	cor₀r	c'cp bc	bcqbw	bbcc	52	47	43	3	9·00	-	-	0·0
Chester (Sealand) ...	cr₀n₀r₀r₀	cr₀m₀	cbc	bcc	53	43	35	3	9·00	-	-	0·0
Harrogate	cir	cirb	bbc	bcc	48	46	42	3	9·00	-	-	0·0
Spurn Head	cpr	orc	cbc	bc	46	45	•	3	11·00	0·1	<21·00	0·0
Birmingham (Edgbaston)	bcr₀or	or₀r₀	bcc	or₀rbc	46	45	39	4	9·00	1	<21·00	0·1
Cranwell	c	cir	d₀m₀bc	bcc	46	42	36	3	12·30	0·2	<21·00	0·9
Gorleston	bcm₀c	cor₀rq	or₀rc	bcc	45	42	41	1	16·30	4	<21·00	3·0
Valentia (Cahirciveen)	or d₀c	coid₀	aid₀	oid₀r	55	53	52	1	<8·00	0·4	<21·00	0·0
Rockcorr Point	ord₀d₀	oid₀c	co	oDD	56	53	•	4	<8·00	2	2·30	•
Pembroke (St. Ann's H.)	coyrrm	crrmd	or₀rrm	oidm	55	52	•	9	9·00	0·2	2·30	0·0
Ross-on-Wye	cmrr	cor₀d	doc	c	50	48	41	3	11·00	0·1	<21·00	0·1
Leafield	bcc	oir₀	oro	oifo	46	45	43	2	11·00	2	<21·00	0·0
Winchester (Worthy Dn.)	boifcmm	crm₀rr₀	crc	cr₀c	48	48	44	1	13·30	1	<21·00	0·1
S. Farnborough ...	bmbfbm	orrm₀	or₀r₀m	or₀r	47	47	46	2	13·30	1	<21·00	1·6
London (Kew Obsy.) ...	ofnom	cr₀r	crm₀c	cidcm₀	47	47	44	1	14·30	1	<21·00	0·2
Croydon	bffabq	cz₀r₀r₀	cr₀d₀	cr₀m₀	47	47	43	1	14·30	2	<21·00	2·4
Shoeburyness	Fbc	cor	orrc	coir	49	46	45	0·4	16·30	1	<21·00	1·1
Clacton-on-Sea ...	bcc	coqr	oqrr	oqc	47	46	37	0·6	17·30	1	<21·00	3·5
Felixstowe	bfbcmc	cr₀crr	crrc	cbcm₀	47	43	37	0·4	14·30	1	<21·00	3·9
Lympne	bm₀bcc	cz₀r₀rm₀	orr₀dd₀	om₀c	48	46	43	0·2	16·30	2	24·00	4·4
Scilly (St. Mary's) ...	bccd₀	omid	ofid	ofid	54	53	•	1	9·00	2	<21·00	0·0
Falmouth (Pendennis)	cr₀	omr	om₀r₀	odmq	55	53	•	1	<8·00	1	<21·00	0·0
Plymouth (Cattewater)	bccqr₀	coqrm	oqd₀m₀	omdd	54	53	50	3	11·00	0·4	<21·00	0·0
Portland Bill	bcc	cr₀r₀z₀	orr₀	occc	54	52	•	1	13·30	Tr.	<21·00	•
Southampton (Calshot)	ofbcm₀c	cr₀r₀	crddq	ofc	51	50	48	1	14·30	2	<21·00	1·5
Dungeness	cffc	ccr₀r	cr₀bqrz	codcr₀	51	47	•	0·2	16·30	2	<21·00	•
Guernsey	bbcv	bccr₀r₀	crr₀oid₀	oiddq	52	50	•	1	15·30	3	<21·00	2·8



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
2	10th 10h.	"Scona"	s'w	6	c/r	53	53	6
1	10th 12h.	St. Helier	w	5	c+	55	57	7
3	10th 2h.	"Diarre"	w	6	c	52	57	6

General Inference.

A depression south of Iceland is moving northeast and secondary depressions will cross the British Isles. A depression over the North Sea is moving southeast and filling up. Winds will be southwesterly fresh or strong in the west and north and freshening in the southeast. Weather will be mild and cloudy with some rain and there will be local coastal fog particularly in the southwest.

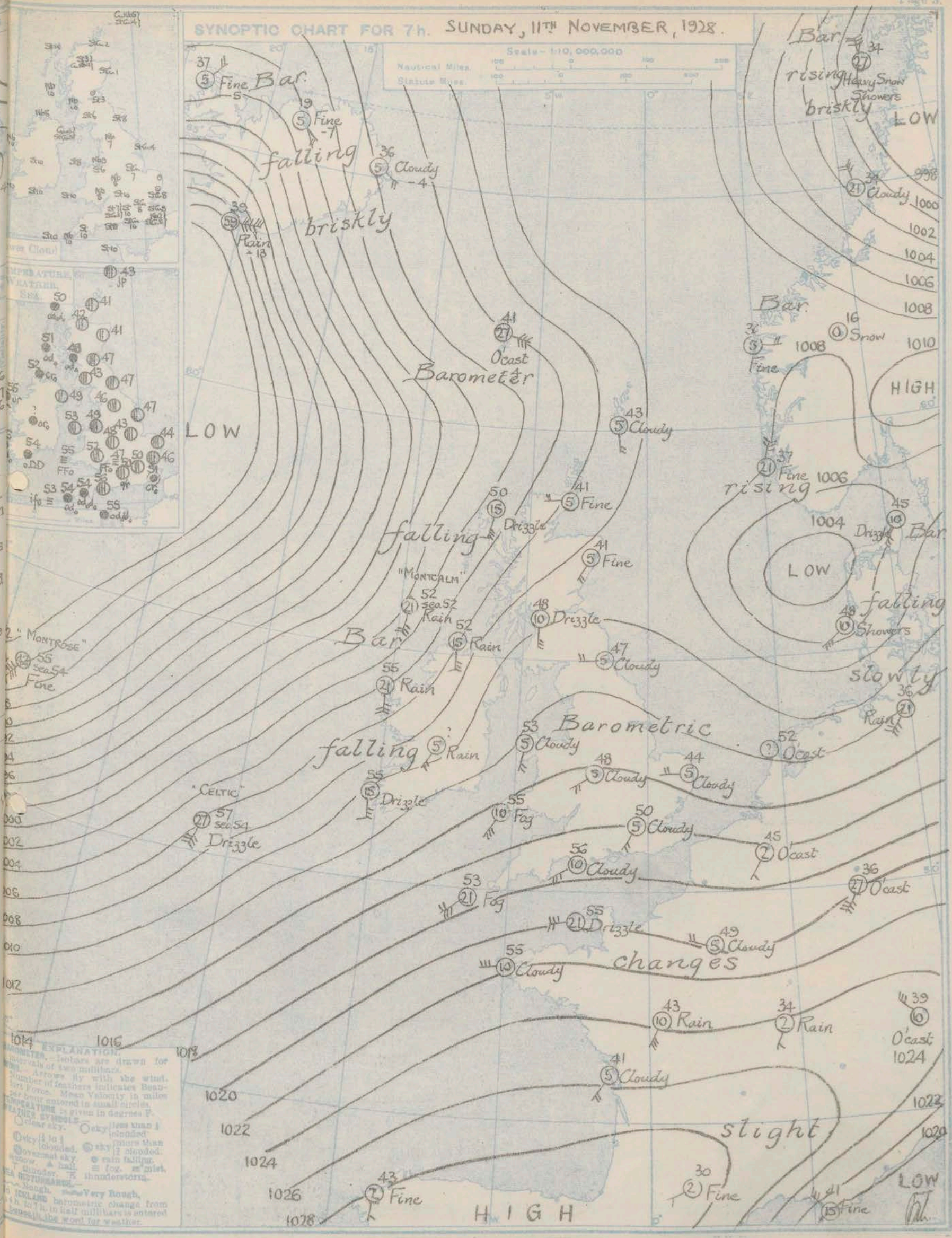
Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 11th November, 1928.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind between west and southwest, backing and freshening; mainly cloudy, rain later; rather mild.	Unsettled with southwesterly to westerly winds, strong at times.
~~5. S.W. England~~ 6. South Wales 7. North Wales	Westerly wind, backing towards south and becoming strong; cloudy, some rain, local coastal mist or fog; rather mild.	
8. N.W. England ~~9. N. Midlands~~	Southerly wind, becoming fresh or strong; mainly cloudy, some rain; rather mild.	
10. N.E. England 11. S.E. Scotland	Southwest to south wind, light or moderate, freshening later; mainly cloudy, some rain; rather mild.	
~~12. S.W. Scotland & Isle of Man~~ 13 {A. W. Scotland, B. N.W. Scotland}	South to southwest winds, strong at times; mainly cloudy, some rain, rather mild.	
~~14. Mid Scotland~~ 15. N.E. Scotland 16. Orkneys and Shetlands	South to southwest winds, becoming fresh or strong, mainly cloudy, some rain; rather mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	South to southwest winds, strong at times locally; mainly cloudy, some rain; visibility poor at times; rather mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1130 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

‡ Trace = rain has fallen, but amount less than ·01 mm.


SYNOPTIC CHART FOR 7h. SUNDAY, 11TH NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Bar. falling briskly
Bar. rising briskly
LOW
HIGH
Barometer falling
Bar. falling
Bar. rising slowly
Barometric changes slight
"MONTCALM"
"MONTROSE"
"CELTIC"
Fine
Cloudy
Heavy Snow Showers
Snow
Drizzle
Rain
Fog
O'cast
Showers
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 11th November, 1928. No. 316.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 11th. 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. 11th. 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	1006.2	+1	E'S	2	c	42	75	8	1500	StCu	3	ASt	8	1007.6	+2	S'E	2	cjp	43	65	7	1500	CuNb	9	-	9	•
Stornoway	30	1007.6	+3	W	3	bc	•	•	7	•	•	•	•	7	1003.2	-4	SSW	4	odd	50	97	6	1500	St	10	-	10	3
Wick	81	1006.0	+2	W	1	c/r	46	97	8	1500	Nb	6	ASt	8	1006.3	0	W	2	bc	41	85	8	2500	StCu	2	CiCu	4	0
Tiree	28	•	•	•	•	•	•	•	•	•	•	•	•	•	1005.0	-3	S	5	od	51	97	7	800	Nb	10	-	10	4
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1006.6	•	-	0	bc	42	85	8	1500	CuNb	7	-	7	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1008.2	0	SW	2	bc+	41	85	8	4000	StCu	1	CiSt	3	0
Malin Head	51	1010.7	0	S	3	cr	44	92	7	4000	Nb	3	ASt	10	1004.7	-6	S	4	cr+	52	97	7	4000	Nb	8	ASt	10	4
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.8	-1	S	3	od	48	97	6	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	196	1008.5	+3	WSW	4	0	48	85	7	1500	St	10	-	10	1008.1	+1	WSW	3	c	47	92	8	1500	St	3	ASt	8	1
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1009.1	+1	SW	2	c+	44	92	8	-	-	0	ASt	8	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.4	0	S'E	2	c	43	97	6	450	St	6	ASt	10	•
Tynemouth	67	1009.6	+2	W	3	bc-	46	85	7	1500	Cu	4	-	4	1011.4	+2	W	2	c+	47	92	7	1500	St	8	-	8	1
Blackwod Point ...	18	1010.1	0	S	2	c	54	92	6	•	-	0	ASt	10	1004.0	-4	S	5	or	55	97	7	•	Nb	10	-	10	6
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.4	-2	SW	2	bc+	49	92	7	4000	Cu	7	-	7	2
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	1008.7	•	SW	2	or	55	92	6	800	St	10	-	10	•
Holyhead	26	1013.8	+1	SW'W	3	cr	52	85	7	1500	St	8	ASt	10	1012.8	-1	S'W	2	c	53	92	7	800	St	8	ASt	10	0
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.5	0	SW'S	2	c	49	85	8	2500	Nb	9	-	9	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.4	0	SSW	2	c	46	92	8	4000	St	6	ACu	9	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.7	+1	SW'W	3	c	46	92	8	4000	Nb	7	ASt	9	•
Spurn Head	39	1010.3	0	W	5	bc	47	85	6	4000	Nb	5	-	5	1012.1	+1	W'S	4	bc	47	92	6	5700	StCu	4	CiCu	7	2
Birmingham (Edgbaston)	685	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.5	0	WSW	2	c	48	85	8	4000	Nb	8	ASt	9	•
Cranwell	230	1013.3	+1	W'S	4	bc	45	92	6	2500	StCu	6	-	6	1014.3	+1	W'S	3	c+	43	92	6	5700	StCu	7	CiCu	8	•
Gorleston	14	1012.3	-1	W'S	2	bc	46	92	6	-	-	0	ASt	3	1013.7	+1	W	2	c	44	97	6	-	-	0	ASt	9	0
Valentia (Cahireiveen)‡	30	1014.5	0	S	2	ifo	55	97	4	•	St	10	-	10	1010.7	-3	S	4	od	55	92	6	220	St	10	-	10	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.7	-2	SW	3	oDD	54	97	5	800	St	10	-	10	4
Pembroke (St. Ann's H.)	160	1014.8	0	WSW	4	odd	54	97	6	450	St	10	-	10	1014.2	-1	SW'W	3	fo	55	97	2	220	St	10	-	10	3
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.2	0	WSW	2	c	52	92	7	2500	Nb	8	ASt	9	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.5	0	S	1	ffo	47	97	2	<150	St	10	-	10	•
Winchester (Worthy Dn.)	273	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.1	0	SW	1	c	52	97	8	800	St	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.0	+1	SW	1	o/r	50	97	7	1500	St	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	52	•	•	•	•	•	•	•	1016.2	+1	SW	2	c	50	97	5	2500	StCu	8	ASt	10	•
Croydon	244	1015.4	0	W	4	c	53	92	6	800	St	5	ASt	9	1016.1	+1	W	2	c	51	92	7	2500	St	6	ASt	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.0	+1	-	0	c	50	97	5	5700	StCu	3	ASt	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.6	0	WSW	3	c	46	97	6	4000	StCu	8	-	8	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.3	+2	W	2	bc	45	97	6	-	-	0	CiCu	3	1
Lympne	350	1015.4	-1	W'S	3	0	52	97	6	800	St	10	-	10	1016.1	+1	W'N	3	c	49	92	8	5700	StCu	5	ASt	10	•
Scilly (St. Mary's) ...	163	1018.1	0	WSW	5	ffo	54	97	2	800	St	10	-	10	1017.4	-1	SW'W	5	ifo	53	97	3	800	St	10	-	10	5
Falmouth (Pendennis)	200	1018.1	0	S'W	2	od	54	97	6	~~2500~~	Nb	10	-	10	1017.8	-1	WSW	4	od	54	97	6	2500	Nb	10	-	10	1
Plymouth (Cattewater)	89	•	•	•	•	•	•	•	•	1500	•	•	•	•	1017.7	0	WSW	3	odd	54	97	6	220	St	10	-	10	2
Portland Bill	37	1016.3	0	WSW	5	0	56	92	8	2500	Nb	10	-	10	1016.5	0	WSW	3	c	56	92	8	1500	St	8	ASt	9	5
Southampton (Calshot)	10	1016.4	0	W'S	4	ofo	53	97	7	1500	Nb	10	-	10	1016.5	+1	WSW	2	c	53	92	8	1500	StCu	10	-	10	0
Dungeness	20	1015.6	-2	W	3	c/r	53	97	6	2500	StCu	10	-	10	1016.2	+1	W	1	cr	51	97	8	1500	StCu	10	-	10	0
Guernsey (Fort George) ‡	205	1020.2	-2	WSW	3	c+	54	97	6	2500	StCu	10	-	10	1019.8	0	W	5	odd	55	97	4	450	St	10	-	10	4

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 10th November

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 9th. to 9h. 10th. °F.	Temperature. Max. 9h. 9th.-17h. 10th. °F.	Rainfall.† Night 17h.-9h. 9th.-10th. mm.	Rainfall.† Day 9h.-17h. 10th. mm.	Sunshine. Sunrise to Sunset. 10th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cbcc	bc	33	49	Trace	Trace	0.2
Douglas (I. o. M.) ...	ogrt	bc	36	53	6	6	1.2
Llandudno ...	rtr	trc	36	56	-	2	0.6
Colwyn Bay ...	cor	orsc	33	55	-	1	0.0
Rhyl	bc	rc	33	55	-	1	0.9
Wallasey	oir	robcc	33	52	0.3	3	0.0
Southport	ro	orc	34	50	0.6	6	0.0
Blackpool	oor	orc	33	52	2	8	0.0
Ilkley	or	oro	28	50	-	1	0.0
Cleethorpes	o	od	31	43	-	3	0.3
Skegness	xbcc	cor	31	44	Trace	5	0.6
Aberystwyth ...	co	rr	35	53	-	6	0.0
Bath	mcr	rc	26	49	-	1	0.1
Cheltenham ...	co	or	29	49	-	3	0.2
Leamington Spa ...	cmor	or	23	46	-	2	0.0
Lowestoft	bmb	bbcor	32	47	0.4	Trace	3.8
Harwich & Dovercourt	xbc	bcocp	32	48	-	Trace	3.7
Maldon	fbc	or	26	47	-	Trace	0.6
Southend	ocfr	or	29	48	0.1	0.3	0.8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	wcor	orrr	32	57	-	6	0.0
Penzance	cor	or	38	55	-	1	0.0
Paignton	wom	corror	30	53	Trace	1	0.5
Torquay	owm	mrrdp	35	53	-	1	0.2
Jersey	bc	cr	36	53	-	-	3.0
Weymouth	c	crrr	31	54	-	5	0.0
Bournemouth ...	cb	r	28	53	-	2	3.0
Ventnor ...	bccb	cor	38	52	-	2	2.8
Portsmouth (S'thsea)	fbc	or	30	51	-	2	1.1
Bognor	xbc	crid	32	51	-	2	2.2
Littlehampton ...	bc	cr	26	51	-	1	2.9
Worthing	bc	cor	31	51	-	2	3.4
Brighton	bco	ocor	32	52	-	2	4.2
Eastbourne	fbbc	bccor	32	52	-	1	5.0
Hastings‖	mbbc	bccor	36	51	0.1	0.4	4.9
Folkestone	bcmcm	cmr	37	51	-	Trace	4.2
Dover	fbbc	bcor	36	51	1	Trace	4.1
Tunbridge Wells ...	fbbc	bccor	28	50	-	0.3	4.6
Ramsgate	fbc	bcc	35	50	0.4	-	3.5
Margate	fbc	bcc	36	50	1	-	3.1
Deal	b	bcc	35	49	2	-	4.4

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* Information not usually received. ‡ The observations at 1h. G.M.T. and at Guernsey the sunshine readings are 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. 24462 MONDAY 12TH NOVEMBER 1928. Page 1.

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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1004.5	-9	SE	4	c	45	85	7	1500	StCu	5	ASt	9	*
Stornoway	993.6	-11	S	6	oror	51	97	5	800	St	10	-	10	*
Wick	1001.4	-6	S	4	c/r	49	75	8	1500	St	8	ASt	10	*
Tiree	997.6	-4	S	5	oRR	53	97	6	800	Nb	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1004.7	-5	S	3	crr	48	92	5	1500	Nb	4	ASt	10	2
Malin Head	1000.3	-3	SSW	4	cd	56	97	6	2500	Nb	7	ASt	10	*
Renfrew	1004.1	-7	SSW	1	orr	51	97	6	800	Nb	10	-	10	2
Edinburgh (Inchkeith)	1005.5	-5	E	1	crr	48	97	7	1500	St	10	-	10	*
Leuchars	1004.7	-6	-	0	cr	48	97	8	2500	Nb	3	ASt	10	2
Eskdalemuir	1006.2	-7	S	3	orr	46	97	6	800	Nb	10	-	10	2
Tynemouth	1009.3	-3	SSW	2	orrf	48	92	3	1500	Nb	10	-	10	*
Blacksod Point	1001.0	-1	WSW	5	oD	56	97	7	"	Nb	10	-	10	*
Donaghadee	1004.8	-7	SW	4	orr	53	97	6	2500	Nb	10	-	10	*
Birr Castle	1005.8	*	SW	3	cr+	55	85	6	1500	Nb	9	-	9	*
Holyhead	1008.5	-5	SSW	5	orr	55	97	6	800	Nb	10	-	10	*
Liverpool (Bidston)	1009.4	-3	SSW	4	orr	53	97	6	1500	St	10	-	10	*
Chester (Sealand)	1010.2	-5	SE'S	3	orr	52	97	6	1500	Nb	10	-	10	2
Harrogate	1010.7	-4	SSE	3	crf	47	97	3	<150	Nb	10	-	10	*
Spurn Head	1012.4	-1	SW	3	c	50	85	6	4000	Nb	8	-	8	*
Birmingham (Edgbaston)	1013.0	-3	SSW	3	orr	53	97	7	2500	Nb	10	-	10	2
Cranwell	1013.9	-1	S'W	2	cr	51	97	6	4000	StCu	7	ASt	10	1
Gorleston	1014.3	0	-	0	c	51	92	6	-	-	0	ASt	10	*
Valentia (Cahirciveen)	1008.1	-2	S'W	5	orr	56	97	6	220	St	10	-	10	2
Roches Point	1012.0	-3	SW	4	od	55	97	5	800	St	10	-	10	*
Pembroke (St. Ann's H.)	1012.3	-3	SW	4	od	55	97	5	450	St	10	-	10	*
Ross-on-Wye	1013.3	-2	SW	3	c	56	85	8	2500	Nb	8	ASt	10	2
Leafield	1014.4	-2	SWW	4	od	53	97	6	220	St	10	-	10	2
Winchester (Worthy Dn.)	1016.1	-1	S'W	2	c	55	92	7	800	St	10	-	10	2
S. Farnborough	1015.9	+1	SW	3	odd	54	92	6	800	Nb	10	-	10	2
London (Kew Obsy.)	1016.1	-2	SW'S	3	or	54	92	5	450	St	10	-	10	2
Croydon	1016.2	-1	W'S	4	c	55	85	6	1500	St	10	-	10	2
Shoeburyness	1015.8	-1	SW	1	o	55	97	6	1500	St	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1015.2	-2	WSW	2	c	54	75	6	-	-	0	CiSt	9	2
Lympne	1016.5	+1	SW	2	o+	53	97	5	<150	St	10	-	10	2
Scilly (St. Mary's)	1016.5	-1	SW	5	od	54	97	5	800	St	10	-	10	*
Falmouth (Pendennis)	1017.1	-2	SWW	5	cd	55	97	6	2500	Nb	7	ASt	10	*
Plymouth (Cattewater)	1017.4	-2	W	5	o	55	92	7	800	Nb	10	-	10	2
Portland Bill	1016.4	-2	SW'W	5	o	56	97	6	1500	St	10	-	10	*
Southampton (Calshot)	1016.7	-1	SW'W	4	c	55	92	7	1500	St	10	-	10	2
Dungeness	1017.0	-1	WSW	2	c	55	97	7	800	St	10	-	10	*
Guernsey (Fort George)	1019.6	-2	W	6	c-	55	92	7	1500	St	7	ACu	9	*

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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	994.8	-15	SSE	7	orr	47	97	6	1500	Nb	10	-	10	*
Stornoway	990.0	-4	SW	6	bc-	54	85	7	4000	CuNb	4	-	4	5
Wick	993.0	-7	S	5	c	50	92	8	1500	St	6	ASt	8	4
Tiree	996.7	+1	SW	6	c/b	54	97	6	800	CuNb	10	-	10	4
Nairn	993.1	*	S'W	4	bc/r	55	85	8	2500	Cu	5	-	5	*
Aberdeen	997.2	-8	S	4	c/r	50	92	5	1500	Nb	3	ASt	10	0
Malin Head	999.9	-1	SW	6	c	56	85	7	5700	StCu	9	-	9	4
Renfrew	1000.1	-4	SW	5	c/r	56	92	6	800	StCu	9	-	9	*
Edinburgh (Inchkeith)	998.2	-6	S	4	o	55	85	8	800	St	10	-	10	2
Leuchars	997.8	-7	SW	3	c/r	55	92	8	1500	St	9	ASt	10	*
Eskdalemuir	1001.0	-5	S'W	4	od/dm	51	97	4	220	St	10	-	10	*
Tynemouth	1003.1	-3	SW	2	bc/r	50	97	6	1500	St	3	-	3	2
Blacksod Point	1001.9	+1	SW	5	bc	55	85	7	*	CuNb	6	-	6	6
Donaghadee	1003.4	-1	SW'W	3	c	57	92	7	4000	StCu	9	-	9	2
Birr Castle	1002.8	*	SW	4	c	56	85	6	1500	Cu	9	-	9	*
Holyhead	1007.1	-2	SSW	5	c/r	55	97	6	800	St	9	-	9	4
Liverpool (Bidston)	1007.2	-2	WSW	5	c/r	55	92	7	2500	CuNb	8	-	8	*
Chester (Sealand)	1008.1	-2	SW	4	cr+	56	85	8	1500	Nb	7	ASt	10	*
Harrogate	1006.2	-3	SW	4	cr	54	92	7	2500	Nb	8	-	8	*
Spurn Head	1008.7	-3	SSW	4	o	51	97	6	4000	Nb	10	-	10	1
Birmingham (Edgbaston)	1011.1	-2	SSW	3	orr	53	97	5	2500	Nb	10	-	10	*
Cranwell	1010.4	-5	SW	4	c/r	54	97	6	2500	St	10	-	10	*
Gorleston	1012.5	-2	S'W	3	orr	51	97	5	800	Nb	10	-	10	0
Valentia (Cahirciveen)	1008.2	+1	SW'S	4	o	56	92	7	450	St	10	-	10	4
Roches Point	1009.7	-1	SW	4	orr	55	97	5	800	Nb	10	-	10	4
Pembroke (St. Ann's H.)	1010.5	-2	WSW	5	orr	55	97	6	450	St	10	-	10	4
Ross-on-Wye	1011.8	-2	SW	4	o	55	85	7	1500	St	10	-	10	*
Leafield	1012.6	-1	SW'S	4	od	53	97	6	220	St	10	-	10	*
Winchester (Worthy Dn.)	1015.0	-1	SSW	4	c	54	92	8	800	St	10	-	10	*
S. Farnborough	1014.4	-1	SW	3	o/r	54	97	7	1500	St	10	-	10	*
London (Kew Obsy.)	1014.5	-1	SW	3	orr	54	97	5	1500	Nb	10	-	10	*
Croydon	1014.6	-1	SW'W	4	or	54	92	6	800	Nb	10	-	10	*
Shoeburyness	1014.2	-2	SW	2	orr	54	97	5	800	St	10	-	10	*
Clacton-on-Sea	1014.2	-1	WSW	2	orr	51	97	6	2500	St	10	-	10	2
Felixstowe	1013.6	-2	SSW	3	orr	52	97	7	800	Nb	10	-	10	1
Lympne	1015.9	0	WSW	4	or+	53	97	5	220	Nb	10	-	10	*
Scilly (St. Mary's)	1015.5	-1	SW	6	od	55	97	5	2500	St	10	-	10	6
Falmouth (Pendennis)	1015.5	-1	SW'W	4	od	55	97	7	2500	Nb	10	-	10	1
Plymouth (Cattewater)	1015.8	-2	WSW	5	o	55	97	7	800	Nb	10	-	10	4
Portland Bill	1015.3	-3	SW	5	od	55	97	6	1500	St	10	-	10	6
Southampton (Calshot)	1015.4	0	WSW	4	cd	55	92	7	1500	St	10	-	10	0
Dungeness	1015.6	-2	WSW	3	or+	55	97	6	2500	Nb	10	-	10	2
Guernsey (Fort George)	1019.0	-1	W	6	cd	56	97	6	1500	St	8	ASt	10	6

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

Station	Height above M.S.L. in feet	Weather (24 Hours ended 9h) Morning	Afternoon	Night	Temperature Max. Day °F.	Min. Night °F	Min. on Grass °F.	Rainfall mm. Day	Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	corm	cmor	orrm	55	54	53	1	5	0.0	*	*	5
Croydon	244	cddm	comrr	crrm	56	54	52	1	3	0.0	*	*	6
Greenwich (Royal Obsy.)	149	ocm	cmrf	crrc	56	54	52	3	4	0.0	91	91	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	58	52	51	7		0.0	87	90	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	oc	or	*	54	54	*	7		*	*	94	*
Kensington Palace	80	oc	crr	*	57	55	52	2	6	*	(At 18h 89)	94	*
Hampstead Observatory	450	*	*	*	64	51	48	3	4	0.0	*	95	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

Station	Max.	Time.	Min.	Time.
South Kensington	0.4	11th 9h	<0.3	12th 2h
Kew Observatory	0.4	11th 9h	<0.1	12th 1h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 11TH 17 h 15 m. to 12TH 6 h 15 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.0	NIL	-
δ Ursae Minoris	13.0	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 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. 12TH & 13TH NOV. 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·11 7·13	11·37 11·37	16·2 16·1
Greenwich	7·14 7·16	11·44 11·44	16·13 16·12
Wick	7·56 7·59	11·57 11·57	15·56 15·54
Valentia	7·57 7·59	12·25 12·25	16·53 16·51

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. 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.

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.

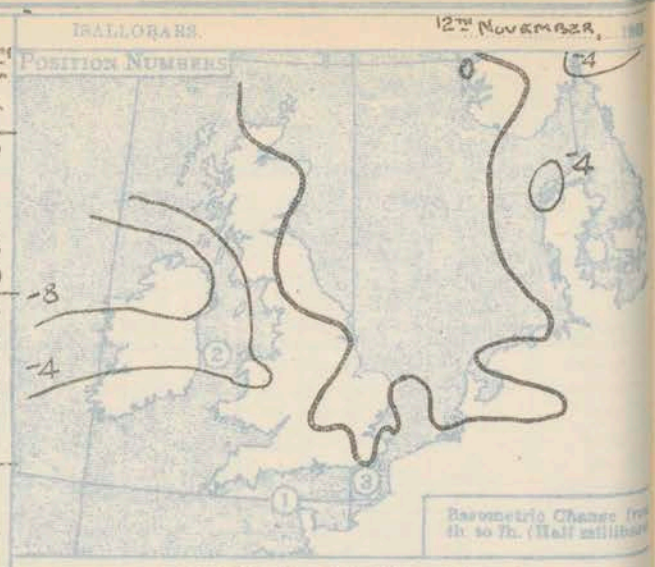
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. 11th	Weather. 18h.-18h. 11th	Weather. 18h. 11th to 1h. 12th	Weather. 1h.-7h. 12th	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 11th Hours.
Lerwick	c	corrm.	cir	cir	48	47	•	2	15.30	6	<21.00	0.0
Stornoway	or	orbc	c	cprc (Cir)	54	49	•	6	<0800	1	3.30	0.1
Wick	cb.rc	cir.c	bbc	c	50	46	•	0.2	12.30	–	–	•
Tiree	RRq	Rro	cbc	cr.r	54	49	48	17	<0800	1	1.30	0.0
Nairn	berrc	repbc	beq. w	bc	55	47	•	4	<8.00	–	–	0.0
Aberdeen	becfzrrm	r.r.cm.	cd.bbcm.	c	50	47	40	1	11.00	Tr.	<21.00	0.0
Malin Head	cRcd.m.	cd.c	cbc	becR	57	49	•	7	<0800	4	3.30	0.0
Renfrew	cr.ofrr	ordcd.	cm.bq.bc	bcqbcrm.	56	49	46	5	<0800	0.3	6.30	0.0
Edinburgh (Inchkeith)	c r.r.	orrc	ocprbc	bcbbc	56	48	44	4	0900	Tr.	<21.00	0.0
Leuchars	c.bc.rr	cir.id.	cbcp	cm.	55	47	43	3	0900	–	–	0.0
Eskdalemuir	corrm.	orrodm	odm bc	bccrrm	51	43	41	15	<0800	2	<21.00	0.0
Tynemouth	offr.r.	orrm	bcoirbc	bc	50	49	39	5	1100	0.1	22.00	•
Blacksod Point ...	oDd	dc	p.c	Dd	57	52	•	5	•	4	•	•
Donaghadee	orrm.	irc	prbc	oirm.	57	48	•	17	<0800	2	<21.00	•
Birr Castle	cir.	circ	cirm.	cm.	57	53	48	4	<8.00	3	<21.00	0.0
Holyhead	r.frr	RRr.	cbcm.	bcm.rr	55	54	53	22	0900	4	4.30	0.0
Liverpool (Bidston) ...	cor.r	or.rc	crc	cor.	55	53	47	12	1100	1	<21.00	0.0
Chester (Sealand) ...	c.r.r	rRm.	cr.	cr.	56	54	49	9	1100	0.6	<21.00	0.0
Harrogate	cr.r.f	cofcrrm	cir.	cir.	54	52	49	4	1100	Tr.	<21.00	0.0
Spurn Head	cpr	orro	O	c	52	51	•	4	1230	–	–	0.6
Birmingham (Edgbaston)	Cbe.	orr.	orrc	co	54	52	51	10	1100	4	<21.00	0.0
Cranwell	cir.	r.cr.irc	circ	cor.	54	49	47	5	1100	0.3	<21.00	0.0
Gorleston	c	cor.r	or.rr.	or.c	51	51	50	2	14.30	1	<21.00	0.0
Valentia (Cahirciveen)	orr.	or.o	O	ord.	57	54	52	4	<0800	9	24.00	0.0
Roches Point	oid	oidor.r.	or.dd	odd	55	54	•	2	<0800	4	<21.00	•
Pembroke (St. Ann's H.)	ofm.o	or.r.m	orrm.	orrmd	55	55	•	1	11.00	6	<21.00	0.0
Ross-on-Wye	c	cco	drdo	oco	57	55	53	–	–	2	<21.00	0.0
Leafield	fobco	od.r.r.	or r.	or	54	52	52	2	0900	2	<21.00	0.5
Winchester (Worthy Dn.)	cd.m.c	cr.c	cm.r.	cmdd	56	54	51	0.4	<0800	2	<21.00	0.0
S. Farnborough ...	oc	ocrr.r.	or.r.r	or.r.	56	54	53	1	12.30	3	<21.00	0.0
London (Kew Obsy.) ...	Cmcorm	cmor.m.	orr	crm.	55	54	53	1	0900	5	<21.00	0.0
Croydon	cd.d.m.	com.r.r.	cr.r.w.	cr.r.m.	56	54	52	1	0900	3	<21.00	0.0
Shoeburyness	oc	o,orr	orr	orrm.	57	53	52	1	1530	3	<21.00	1.4
Clacton-on-Sea ...	Cm	cr.ogrr	ogrr	ogrr	54	49	49	2	1430	5	<21.00	0.5
Felixstowe	bcm.cz	corrcc	orr.orr	orm.	54	51	51	2	13.30	2	<21.00	1.0
Lympne	com.	r.rm.	or.r.m.	or.r.	54	53	52	0.5	14.30	7	<21.00	0.1
Scilly (St. Mary's) ...	oifid	omid.	omid.	oifid.	55	53	•	Tr	0900	1	<21.00	0.0
Falmouth (Pendennis)	odm.q	cod.m.	od.r.	or.R	56	55	•	0.4	<0800	1	<21.00	0.0
Plymouth (Cattewater)	om.d.q	od.m.q	oqddm	oqd.rm	56	54	53	Tr	<0800	3	<21.00	0.0
Portland Bill	com.	oid.m.	oid.o3.	oidmm.	57	55	•	Tr	1330	0.6	<21.00	•
Southampton (Calshot)	c,cir.	c,r.cd.	cd.d3.m.	cd.d.m.	56	54	53	0.1	0900	1	<21.00	0.0
Dungeness	r.cc	cddr.or	orcr	orr r.o	55	53	•	0.4	<0800	6	<21.00	•
Guernsey	od.d.mq	cid.qm.	cid.q.o	oid.q.m	56	55	•	0.3	<0800	0.3	<21.00	0.0



Observations from Cross Channel Steamers.

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

GENERAL INFERENCE.

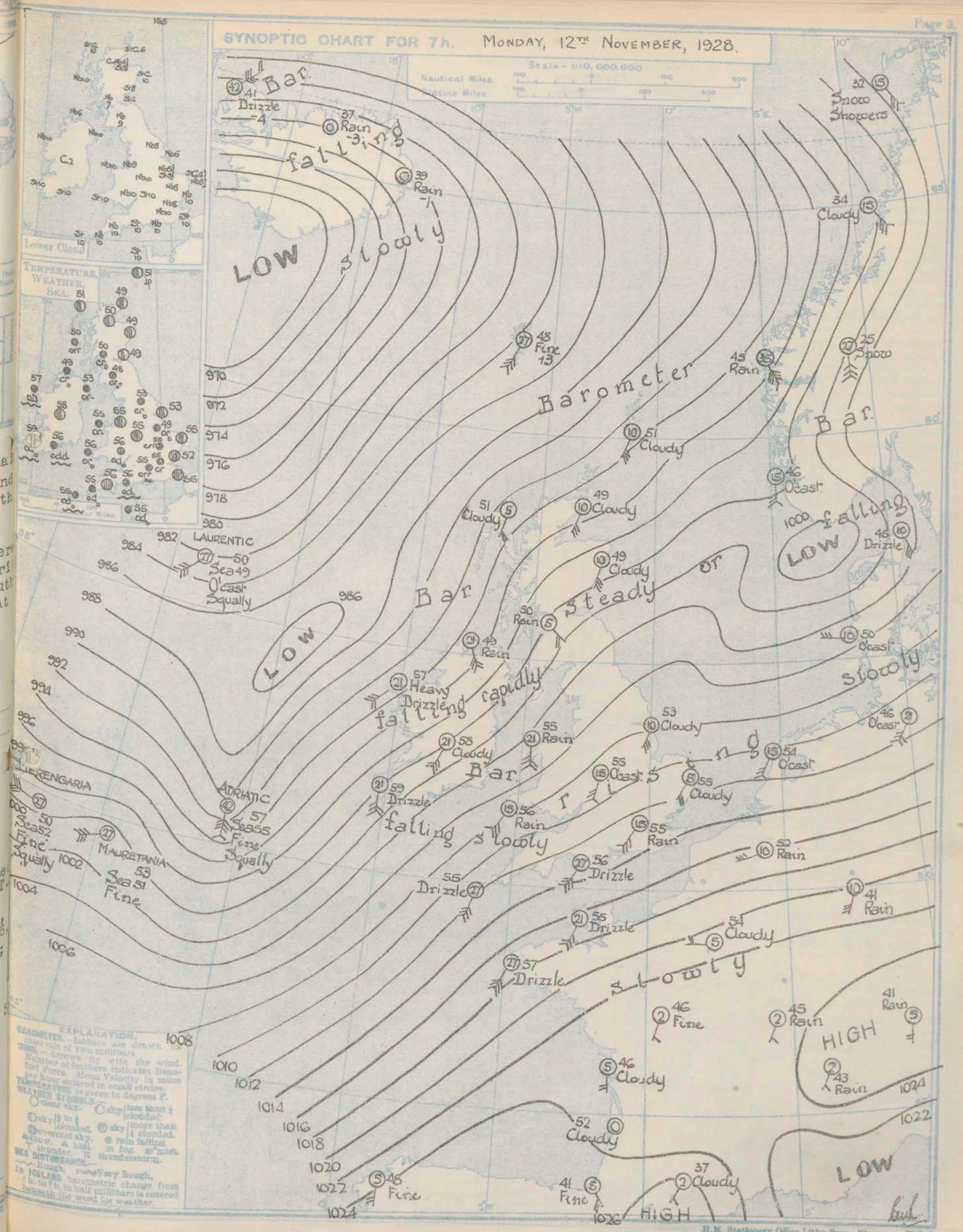
A deep depression will remai centred to the south of Iceland and secondaries associated with it pass northeastwards across the British Isles. Mild and unsettled weather will be gener with further rain in all distri Winds will be southerly to south westerly and approach a gale at times in western districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 12th November, 1928.	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 11. S.E. Scotland	South to southwest winds, moderate to strong, stronger at times locally; some rain or drizzle; very mild.	Mild and unsettled. ▼South Cone hoisted at 13h.30m.G.M.T. yesterday in districts 6,7,8, 12,13A,13B,15,16, 17,18,19 and 20;
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 ▼	Southerly to southwesterly winds, veering, approaching a gale at times; rain or drizzle, fairer intervals later; mild.	and at 3h.35m. G.M.T. today in districts 1 and
17. N.W. Ireland ▼ 18. N.E. Ireland ▼ 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	Southerly winds, veering west, strong to a gale at times at first, moderating later; some rain or drizzle, a temporary improvement later; very mild then moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0945 G.M.T. G. C. SIMPSON, 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.

M.O. Form 2370.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....~~SUNDAY~~ MONDAY.....12TH NOVEMBER.....1928. No. 317...

Stations	Height above M.S.L. in feet.	Obs. at 1h. G.M.T. 12TH: Baром. 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	64	9923	+2	SW	4	cjp	51	92	8	1500	CuNb	5	ASt	9
Stornoway	30	9949	+3	W	5	c	•	•	6	•	•	•	•	8
Wick	81	994.5	+4	W	3	bc	48	85	8	2500	StCu	3	-	3
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	27	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	83	1002.6	+3	WSW	4	bc	52	85	8	5700	StCu	3	-	3
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	1001.1	+3	WSW	4	bc	51	75	8	1500	St	7	ACu	3
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	87	1003.9	+1	W	4	bc-	56	75	8	1500	Cu	3	-	3
Blacksod Point ...	18	1002.9	+1	SW	4	bc	54	85	6	•	CuNb	7	-	7
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1008.1	0	SW'S	4	bc-	54	97	6	450	St	~~1~~ 2	ASt	3
Liverpool (Bidston) ...	182	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	470	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1007.1	0	SW'W	4	c-	54	92	7	4000	Nb	9	-	9
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	256	1009.4	0	WSW	4	c+	55	92	7	2500	StCu	10	-	10
Gorleston	14	1010.~~5~~ 7	-2	SW	3	or. *	55	97	6	1500	Nb	10	-	10
Valentia (Cahirciveen) P	30	1007.6	-5	S	3	mo+	55	97	4	-	St	10	-	10
Roches Point	32	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	160	1011.5	+1	WSW	5	o/pr.	55	97	6	450	St	10	-	10
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	55	•	•	•	•	•	•	•
Croydon	344	1013.9	0	W'S	4	cr.r.	55	92	6	800	Nb	8	ASt	10
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	1014.2	-1	WSW	4	or.r.	54	97	7	800	Nb	10	-	10
Scilly (St. Mary's) ...	163	1014.1	-1	SW	6	od.	55	97	5	2500	St	10	-	10
Falmouth (Pendennis)	308	1014.7	-1	WSW	4	or.	55	97	7	2500	Nb	10	-	10
Plymouth (Cattewater)	62	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1014.3	-1	SW	6	o	55	97	6	2500	St	10	-	10
Southampton (Calshot)	10	1014.7	0	W'S	4	odd.	55	97	6	800	Nb	10	-	10
Dungeness	20	1014.3	-2	WSW	4	or+	55	92	6	2500	Nb	10	-	10
Guernsey (Fort George) P	205	1015.0	-2	SW	4	c+	56	92	7	4000	StCu	10	-	10

Stations	Obs. at 7h. G.M.T. 12TH: Baром. 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	993.2	+3	SSW	3	cjp	51	92	7	1500	Nb	5	ASt	10	•
Stornoway	992.9	-3	SSW	2	c	51	92	7	2500	StCu	10	-	10	1
Wick	995.7	+1	SSW	3	c	49	85	8	2500	StCu	5	ASt	10	0
Tiree	995.8	-2	S	4	orr	50	92	7	800	Nb	10	-	10	4
Nairn	995.5	•	WSW	3	bc+	60	75	7	1500	CuNb	7	-	7	•
Aberdeen	998.9	0	S'W	3	c	49	85	7	4000	StCu	10	-	10	0
Malin Head	995.4	-11	SSE	5	cr.	49	97	6	4000	Nb	6	ASt	9	5
Renfrew	1000.6	-3	SE	2	cr.	50	92	6	1500	Nb	7	ASt	10	•
Edinburgh (Inchkeith)	1000.8	0	SW	3	bc	49	85	7	1500	St	4	ASt	6	0
Leuchars	1000.4	+3	WSW	3	c	48	85	6	1500	St	8	ASt	10	•
Eskdalemuir	1002.8	-2	SSW	5	cr+	48	97	6	800	Nb	9	-	9	•
Tynemouth	1004.1	-1	S	1	c+	49	85	6	1500	Nb	8	-	8	1
Blacksod Point ...	993.3	-8	SW	5	oD	57	92	7	•	Nb	10	-	10	7
Donaghadee	1000.6	-8	SW	2	or-	53	97	5	2500	Nb	10	-	10	2
Birr Castle	999.2	•	SW	5	c	58	92	6	1600	Cu	2	ASt	9	•
Holyhead	1004.6	-4	S	5	or-	55	97	6	450	Nb	10	-	10	4
Liverpool (Bidston) ...	1005.6	-2	SSE	2	c/r	55	92	8	2500	Nb	9	-	9	•
Chester (Sealand) ...	1005.9	-4	SSW	4	cr.	58	85	8	1500	St	9	-	9	•
Harrogate	1006.2	0	SSE	2	cr.	53	92	6	2500	Nb	8	ASt	10	•
Spurn Head	1006.8	0	SSW	3	c	53	92	7	4000	Nb	5	ASt	9	1
Birmingham (Edgbaston)	1009.1	-1	SSW	4	o	55	92	8	450	Nb	10	-	10	•
Cranwell	1009.3	-1	SSW	3	or.	49	92	7	2500	Nb	10	-	10	•
Gorleston	1010.8	0	SW	2	c	55	97	6	4000	StCu	9	-	9	0
Valentia (Cahirciveen) P	1000.0	-3	S	5	od.	53	97	7	450	St	10	-	10	6
Roches Point	1004.7	-3	SW	4	odd	56	97	6	800	St	10	-	10	6
Pembroke (St. Ann's H.)	1007.2	-2	SW	4	or.	56	97	6	450	St	10	-	10	5
Ross-on-Wye	1010.0	-1	SW	4	od.	56	92	7	2500	Nb	10	-	10	•
Leafield	1011.0	0	SW'S	5	o/r	54	97	8	450	St	10	-	10	•
Winchester (Worthy Dn.)	1013.3	0	S'W	4	cdd	55	97	6	450	St	10	-	10	•
S. Farnborough ...	1012.9	-1	SW	4	or.r.	55	97	7	800	Nb	10	-	10	•
London (Kew Obsy.) ...	1012.9	0	SW'S	4	cr	55	97	5	800	Nb	8	ASt	10	•
Croydon	1013.3	0	WSW	4	or.r.	56	92	7	450	Nb	10	-	10	
Shoeburyness	1013.2	0	SW	3	orr	55	97	5	450	St	10	-	10	•
Clacton-on-Sea ...	1013.0	0	SW	1	o	52	97	6	4000	Nb	10	-	10	1
Felixstowe	1012.1	0	SW'S	3	or.	54	92	6	800	Nb	10	-	10	1
Lympne	1014.2	+1	WSW	5	or.	55	97	6	220	St	10	-	10	•
Scilly (St. Mary's) ...	1012.2	-1	SW'S	6	od.	55	97	4	2500	St	10	-	10	6
Falmouth (Pendennis)	1012.5	-2	SW'W	4	od.	56	97	6	2500	Nb	10	-	10	2
Plymouth (Cattewater)	1013.3	-1	SW	5	o/r	56	97	6	220	Nb	10	-	10	4
Portland Bill	1013.3	-1	SW	6	od	56	97	5	800	St	10	-	10	7
Southampton (Calshot)	1014.0	-1	WSW	5	odd	55	97	6	450	Nb	10	-	10	3
Dungeness	1013.7	0	WSW	4	o/r.	55	97	7	800	St	10	-	10	4
Guernsey (Fort George) P	1017.5	-2	SW	5	od.	55	97	6	800	St	10	-	10	4

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR.....11TH NOVEMBER.....

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 10th to 9h. 11th °F.	Temperature. Max. 9h.-17h. 11th °F.	Rainfall.† Night 17h.-9h. 10-11th mm.	Rainfall.† Day 9h.-17h. 11th mm.	Sunshine. Sunrise to Sunset. 11th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cR	Rc	46	53	–	3	0.0
Douglas (I. o. M.) ...	oRR	or'c	47	54	Trace	27	0.0
Llandudno ...	or	or	47	58	–	8	0.0
Colwyn Bay ...	coro	rroro	48	58	–	9	0.0
Rhyl	op	or	49	57	0.2	8	0.0
Wallasey	foR	oRR	40	55	–	6	0.0
Southport	mo	oroRR	*37	54	–	23	0.0
Blackpool	or	oRR	39	53	0.2	22	0.0
Ilkley	mor	or	37	55	0.2	6	0.0
Cleethorpes... ...	o	or	38	52	–	4	0.0
Skegness	bbcc	o,or	38	50	0.3	2	0.0
Aberystwyth ...	prR	oRR	50	55	3	4	0.0
Bath	c	or.	29	57	2	0.3	0.0
Cheltenham ...	o	or	45	56	1	4	0.0
Leamington Spa ...	or	or	32	56	0.3	5	0.1
Lowestoft	cbcc	crcr	35	51	4	1	0.1
Harwich & Dovercourt	boc	ocr	40	53	2	3	0.0
Maldon	ob	or	30	57	1	1	1.0
Southend	bmc	or	34	56	1	1	0.9

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	rod	ddoe	40	57	4	0.2	0.0
Penzance	c.d.	cd.	51	57	3	(Trace)	0.0
Paignton	ogodp	odm	54	56	1	Trace	0.0
Torquay	pod	prnodr	52	57	0.1	Trace	0.0
Jersey	c	cg	41	57	3	–	0.0
Weymouth	cco	p.oce	48	57	0.3	Trace	0.0
Bournemouth ...	o	o	38	54	1	–	0.0
Ventnor ...	ro	oro	46	55	2	0.3	0.0
Portsmouth (S'thsea)	om	od	40	56	3	0.2	0.0
Bognor	oodr	roid	48	55	5	1	0.0
Littlehampton ...	cp	cp	50	54	–	1	0.1
Worthing	c	or.d	?	54	6	1	0.0
Brighton	oco	oror	47	55	7	4	0.1
Eastbourne‖... ...	o	odor	52	57	5	0.5	0.0
Hastings‖	opdo	od,od	49	56	7	0.4	0.0
Folkestone	rcodm	oddm	45	56	2	0.1	0.3
Dover	cbc	coir	40	55	2	0.3	0.2
Tunbridge Wells ...	cd	or	32	55	3	1	0.0
Ramsgate	cbc	bccr	41	57	1	1	1.1
Margate	bc	bcc(r)	38	57	1	1	0.9
Deal	cobc	or.o	38	56	1	1	1.1

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. and, at Guernsey, the sunshine readings are from an auxiliary station. § For code see page 1. ‡ See footnote page 1.

† At stations marked thus the maximum temperature is for the period 8h.-17h., the minimum for the period 17h.-9h. ‖ 18h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24463. Tuesday 13th November 1928.

Observations at 13h. G.M.T. 12th

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	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground
Lerwick	992.6	-4	S	2	oT	50	92	6	1500	Nb	10	-	10	•
Stornoway	983.3	-14	S	6	oTT	52	97	6	1500	Nb	10	-	10	•
Wick	990.9	-6	S	4	c	50	85	8	1500	C.Nb	7	ASt	10	•
Tiree	989.4	-4	S	6	c	56	97	8	1500	CuNb	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	994.4	-6	S	4	odd	50	97	5	800	Nb	10	-	10	1
Malin Head	990.0	-4	SSW	7	bc	59	75	7	4000	Cu	3	-	3	•
Renfrew	994.6	-5	SW	5	c|d	59	92	6	800	Cu	5	Ci	8	2
Edinburgh (Inchkeith)	995.1	-5	SW	4	c	57	85	8	1500	St	9	-	9	•
Leuchars	994.5	-7	-	0	c|d	50	97	6	1500	Nb	8	ASt	10	2
Eskdalemuir	997.8	-3	SSW	6	od d0	53	97	2	<150	St	10	-	10	2
Tynemouth	999.3	-3	SW	6	c|p	60	75	6	1500	Nb	9	-	9	•
Blacksod Point	991.7	-1	SW	8	c	55	85	7	*	CuNb	8	-	8	•
Donaghadee	996.9	-3	SW	5	bc-	61	85	7	2500	Cu	5	Ci	6	•
Birr Castle	999.2	•	S	5	c	62	75	7	1500	Cu	6	Ci	8	•
Holyhead	1003.3	0	SSW	6	od0	56	97	5	450	Nb	10	-	10	2
Liverpool (Bidston)	1004.1	0	SWW	5	c	60	85	9	1500	StCu	9	ACu	9	•
Chester (Sealand)	1004.7	-1	SW	4	ct	62	85	8	800	St	6	ACu	8	1
Harrogate	1003.0	-1	SW'S	6	c	59	85	6	2500	Nb	8	ASt	9	•
Spurn Head	1004.5	-2	SW	6	bc-	59	85	7	4000	Cu	2	CiCu	5	•
Birmingham (Edgbaston)	1008.3	0	SSW	4	c	57	92	5	800	Nb	9	-	9	2
Cranwell	1007.7	-2	SW	5	bc-	61	85	7	1500	~~Nb~~ Cu	5	Ci	<6	1
Gorleston	1009.9	-1	SW	4	c-	58	97	6	4000	StCu	9	-	9	•
Valentia (Cahirciveen)	1003.6	+6	SW'W	4	c	55	85	8	1500	St	8	-	8	2
Roches Point	1005.0	+1	W	4	c	57	85	7	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	1006.6	-1	SW	5	od	56	97	4	450	St	10	-	10	•
Ross-on-Wye	1009.5	-1	SW	4	odd	57	97	6	1500	Nb	10	-	10	2
Leafield	1010.4	-1	SW'S	5	cd0	56	97	6	800	Nb	9	-	9	2
Winchester (Worthy Dn.)	1012.8	0	SSW	4	od0	57	97	6	450	St	10	-	10	2
S. Farnborough	1012.6	0	SW'S	4	od0	57	97	5	450	St	10	-	10	2
London (Kew Obsy.)	1011.3	-1	SW'S	4	c	57	97	5	800	St	9	ASt	10	2
Croydon	1013.1	0	WSW	5	c|d	57	92	6	450	Nb	10	-	10	2
Shoeburyness	1012.4	-1	SW	4	c	58	97	7	1500	StCu	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1011.9	-1	SSW	4	o	55	92	6	800	St	10	-	10	2
Lympne	1014.3	-1	SW	5	od0	55	97	3	<150	St	10	-	10	2
Scilly (St. Mary's)	1012.6	0	SSW	6	od0	56	97	5	2600	St	10	-	10	•
Falmouth (Pendennis)	1012.2	-1	SW	4	or0	56	97	6	2500	Nb	10	-	10	•
Plymouth (Cattewater)	1013.0	-1	SW	6	o	56	97	6	220	St	10	-	10	2
Portland Bill	1012.8	-1	SW	6	od	57	92	4	800	St	10	-	10	•
Southampton (Calshot)	1013.7	-1	SW'W	5	od0	56	97	6	1500	Nb	10	-	10	2
Dungeness	1014.5	+1	WSW	5	od0	56	97	7	1500	Nb	10	-	10	•
Guernsey (Fort George)	1017.1	0	WSW	5	o|d	56	97	7	800	St	10	-	10	•

Observations at 18h. G.M.T. 12th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	983.7	-8	SE	3	oT	51	97	6	1500	Nb	10	-	10	•
Stornoway	982.6	+4	SSW	7	o|PR	50	85	6	1500	Nb	10	-	10	6
Wick	984.2	-7	SSW	5	bc	54	75	8	1500	CuNb	4	CuSt	6	4
Tiree	994.0	+9	W	8	c	51	75	8	1500	CuNb	8	-	8	7
Nairn	986.0	•	WSW	5	bc	56	75	8	1500	St	5	-	5	•
Aberdeen	989.8	-3	SW'S	5	b-	56	75	8	1500	Cu	1	-	1	0
Malin Head	997.9	+14	SW	6	cr0	51	85	7	4000	CuNb	9	-	9	6
Renfrew	997.7	+8	WSW	6	cr0	54	75	7	1500	Nb	7	ACu	9	•
Edinburgh (Inchkeith)	994.9	+1	SW	7	b	55	75	8	-	-	0	CiCu	2	4
Leuchars	993.5	+2	SW	7	b-	55	75	8	1500	StCu	1	~~ACu~~	1	•
Eskdalemuir	998.9	+2	SW'W	7	bc-	51	75	7	1500	St	7	-	7	•
Tynemouth	999.4	+1	SW	6	bc-	58	75	7	1500	Cu	3	-	3	1
Blacksod Point	993.6	+7	SW	5	bc	52	85	7	•	CuNb	7	-	7	6
Donaghadee	1001.5	+8	W	4	bc+	53	75	8	2500	Cu	7	-	7	3
Birr Castle	1003.9	•	S	4	c	51	92	7	1500	StCu	3	ASt	9	•
Holyhead	1005.6	+4	SW'S	5	c	55	85	6	-	-	0	ACu	8	1
Liverpool (Bidston)	1005.3	+2	SW	5	bc-	57	75	8	2500	CuNb	4	ASt	7	•
Chester (Sealand)	1006.7	+3	W'S	5	bc	59	75	8	1500	St	4	Ci	5	•
Harrogate	1003.5	0	SW	5	b-	57	85	6	2500	Nb	1	-	1	•
Spurn Head	1004.6	0	SSW	5	c	57	92	7	4000	Nb	9	-	9	2
Birmingham (Edgbaston)	1009.1	+1	SSW	4	c	57	92	8	1500	Nb	9	-	9	•
Cranwell	1007.7	+1	SW	5	bc-	58	85	7	1500	StCu	5	-	5	•
Gorleston	1009.8	0	SW	4	c	59	92	6	2500	Nb	4	ASt	8	1
Valentia (Cahirciveen)	1005.1	+2	SW'S	4	bc	52	85	8	1500	StCu	7	-	7	5
Roches Point	1007.5	+3	W	2	c	53	92	8	1500	StCu	9	-	9	4
Pembroke (St. Ann's H.)	1007.7	+2	SW	4	o	55	97	6	800	St	10	-	10	4
Ross-on-Wye	1009.9	+1	SW	4	or0f0	57	97	6	1500	Nb	10	-	10	•
Leafield	1011.1	+1	SW	5	od0	55	97	7	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	1013.4	+1	S'W	4	od0	55	97	7	450	St	10	-	10	•
S. Farnborough	1012.8	+1	SW	5	o	56	92	7	450	St	10	-	10	•
London (Kew Obsy.)	1012.9	+1	SW	4	o	57	92	7	220	St	10	-	10	•
Croydon	1013.7	+1	WSW	5	c|d	57	85	7	800	StCu	10	-	10	•
Shoeburyness	1013.0	+1	SW	4	c	57	97	7	1500	StCu	10	-	10	•
Clacton-on-Sea	1012.3	+1	SW	3	c	55	92	6	4000	Nb	6	ASt	10	2
Felixstowe	1012.4	+1	SW	4	c	56	92	7	800	St	9	ASt	10	3
Lympne	1014.9	+1	SW	4	od0d0	55	97	1	<150	St	10	-	10	•
Scilly (St. Mary's)	1011.5	0	SSW	5	od0	55	97	5	2500	St	10	-	10	6
Falmouth (Pendennis)	1012.2	0	SW	5	od0	55	97	6	2500	Nb	10	-	10	2
Plymouth (Cattewater)	1012.7	0	SW	6	od0r0	55	97	5	<150	St	10	-	10	4
Portland Bill	1013.4	+1	SW	6	o|d	56	92	5	1500	St	10	-	10	7
Southampton (Calshot)	1014.0	+1	WSW	6	oDD	55	97	6	800	St	10	-	10	3
Dungeness	1014.8	+1	SW	5	o|d	56	97	7	800	St	10	-	10	5
Guernsey (Fort George)	1017.2	0	SW	4	c	56	92	7	1500	St	7	ASt	10	4

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 hours ended 9h)	Temp. Max. Day °F	Temp. Min. Night °F	Temp. Min. on Grass °F	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility
Kew	18	crcm	cm c	c	58	55	53	0.2	Tr.	0.0	*	*	6
Croydon	244	omd	cmd	cojd	58	54	53	0.1	Tr.	0.0	*	*	6
Greenwich (Royal Obsy.)	149	c	cm c	co c	59	53	52	Tr.	Tr.	0.0	99	38	6
City (Bunhill Row)	80	c	*		*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	59	55	53	-	-	0.0	83	88	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	o	o	*	57	55	*	-	Tr.	*	*	89	*
Kensington Palace	60	co	co	*	58	55	52	-	-	*	(At 18h) 87	93	*
Hampstead Observatory	450	*	*	*	57	50	47	0.3	0.3	0.0	*	99	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	0.4	12th 10h	<0.3	13th 4h
Kew Observatory	0.2	12th 9h	<0.1	13th 2h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 12th 17 h. 15 m. to 13th 6 h. 15 m.

Stars	Exposure h. m.	Record h. m.	%
Polaris	13.0	NIL	-
δ Ursae Minoris	13.0	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=Scaling 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. 13th + 14th November, 1928.

Stations	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.13 7.15	11.37 11.38	16.1 15.59
Greenwich	7.16 7.18	11.44 11.45	16.12 16.10
Wick	7.59 8.1	11.57 11.57	15.54 15.52
Valentia	7.59 8.1	12.25 12.26	16.61 16.60

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:—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.

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

Code	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.	3¼ „
6. Moderate.	6¼ „
7. Good	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

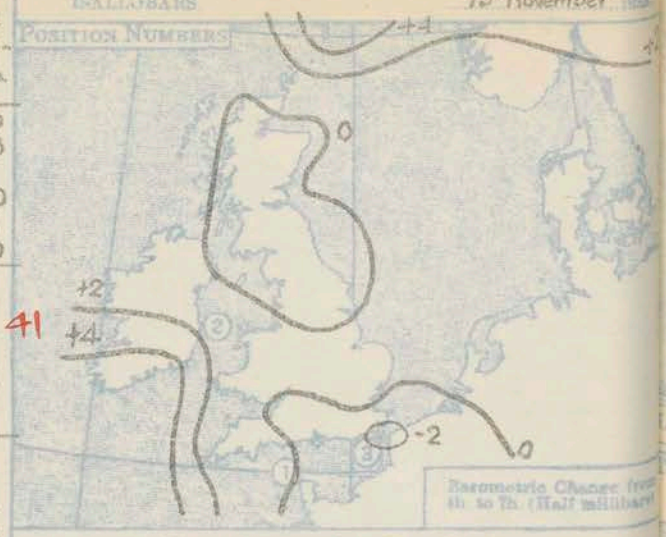
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-12h. 12th	12h.-18h. 12th	18h. 12th to 1h. 13th	1h.-7h. 13th	Temperatures. Max. Day 7h.-18h.	Min. Night 18h.-7h.	Min on Grass	Rainfall† Day 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	Sun 12th Hours.
Lerwick	oiTm.	oiTm.	cprbc	bcpr	51	47	•	3	<8.00	0.2	<21.00	0.0
Stornoway	r-d	p	b-bc	p	55	44	•	7	<8.00	2	<21.00	0.3
Wick	cpr.c	b-bc	b-bc	b-bc	54	43	•	1	9.00	-	-	•
Tiree	prc	prc	cbc	cbc	57	49	46	2	<8.00	-	-	0.0
Nairn	Bcepr	bcq	bcq	~~pr~~ cp	56	46	•	1	<8.00	Tr.	6.30	1.8
Aberdeen	bcr.oim.	oid.cbcbq	bq	b-bc	66	45	39	0.2	9.00	-	-	0.0
Malin Head	cd.bc	bcc	cp.bc	bcir	59	46	•	0.1	<8.00	2	<21.00	3.1
Renfrew	cr.add	cqir.	cqpbc	bccr.r.	60	48	43	3	<8.00	1	<21.00	1.4
Edinburgh (Inchkeith)	bcir.c	cbc	b-bc	bbc	60	~~47~~	~~45~~	Tr	9.00	-	-	1.4
Leuchars	cir.d.d	cbcbcq	bq	bqbcc	60	42	35	1	<8.00	-	-	0.6
Eskdalemuir	adm.ad.f	od.fomcb	bcc	cpr.	53	46	45	8	<8.00	0.6	2.30	0.0
Tynemouth	cir.q	cbcq	bcb	c	61	49	38	0.3	<8.00	-	-	•
Blacksod Point ...	cqc	pqc	pqo	pqc	58	49	•	3	•	2	•	•
Donaghadee	iTm.c	bcq	bccbc	bcc	62	48	•	0.3	<8.00	-	-	•
Birr Castle	c	c	c	cprbc	62	45	34	-	-	1	3.30	1.4
Holyhead	id.m.	d.cm.	cm.r.r.	r.c.dd	57	52	51	0.3	<8.00	3	22.00	0.0
Liverpool (Bidston) ...	cr.Q	d.qc	qbbcc	or.rd	60	51	48	0.2	<8.00	2	2.30	0.5
Chester (Sealand) ...	prcbc	dr.cbc	bc	crd.	64	51	49	0.2	<8.00	2	5.30	0.7
Harrogate	cir	cbcbq	bbc	bccrr	59	50	49	1	<8.00	3	4.30	0.0
Spurn Head	cprbc	bcc	bcc	cpd.	60	63	•	Tr	9.00	Tr.	5.30	2.1
Birmingham (Edgbaston)	c	c	c	b.r.	58	53	52	-	-	1	3.30	0.0
Cranwell	ororc	cbc	bcbo	oir.	62	54	53	3	<8.00	0.1	3.30	2.0
Gorleston	cor.rc	cq	cq	cq	59	54	53	1	<8.00	-	-	0.0
Valentia (Cahirciveen)	odr.c	cbc	or	orcbc	58	49	45	0.1	<8.00	4	24.00	0.1
Roches Point	orc	cp.c	oir.	oirPbc	57	48	•	2	<8.00	10	<21.00	•
Pembroke (St. Ann's H.)	oidm	oidm	FFPdd	oiFPdd	57	52	•	2	<8.00	4	<21.00	0.0
Ross-on-Wye	idrd	dr.r.	r.do	opo	58	54	53	3	<8.00	1	<21.00	0.0
Leafield	oid.	oid.ε	orr	rr	58	52	52	0.1	9.00	4	22.00	0.0
Winchester (Worthy Dn.)	com.d.	om.d.	od.	od.m.	57	53	50	0.1	<8.00	0.5	<21.00	0.0
S. Farnborough ...	or.id.	od.d.	or.	om.rd.	57	53	52	0.1	<8.00	Tr. 0.6	<21.00	0.0
London (Kew Obsy.) ...	crcm.	cm.c	c	c	58	55	53	0.2	<8.00	Tr.	6.30	0.0
Croydon	omrd.cmm	cm.d.d.	coid.	oid.	58	54	53	0.1	<8.00	Tr.	24.00	0.0
Shoeburyness	cr.	o	oc	od.c	58	54	53	0.6	<8.00	Tr.	2.30	0.0
Clacton-on-Sea ...	oqrro	o	o	o	55	50	49	2	9.00	-	-	0.0
Felixstowe	orrco	cz.	c	c	57	53	52	1	<8.00	-	-	0.0
Lympne	or.d.F	od.d.FF	odd fom	od.m.o	55	52	51	0.5	<8.00	0.1	<21.00	0.0
Scilly (St. Mary's) ...	oid.	omid.	oid	oidbc	56	52	•	0.3	<8.00	2	<21.00	0.0
Falmouth (Pendennis)	om.r.	odm.q	odm.q	odmqc	57	53	•	1	<8.00	2	<21.00	0.0
Plymouth (Cattewater)	oqmd.	oqm.dd	omqdrd	omrrq	57	54	53	1	<8.00	3	<21.00	0.0
Portland Bill	oidmm	oidmq	oid.o3.	oid.m.	57	54	•	1	<8.00	0.3	<21.00	•
Southampton (Calshot)	oddcoid.	oid.dm	oDDidm	oid.m.	57	53	52	0.2	<8.00	0.4	<21.00	0.0
Dungeness	or.rd.	od.d.	o	ocr.	~~58~~ 57	53	•	1	<8.00	Tr.	4.30	•
Guernsey	oid.qm.	cq	cbcq.	bccq.	56	53	•	0.5	<8.00	-	-	0.0

ISALLOBARS — 13th November 1928

POSITION NUMBERS



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	12th 10h	Cambria	S	7	fo-	57	55
3	13th 2h	Dieppe	WSW	5	c	57	67

GENERAL INFERENCE.

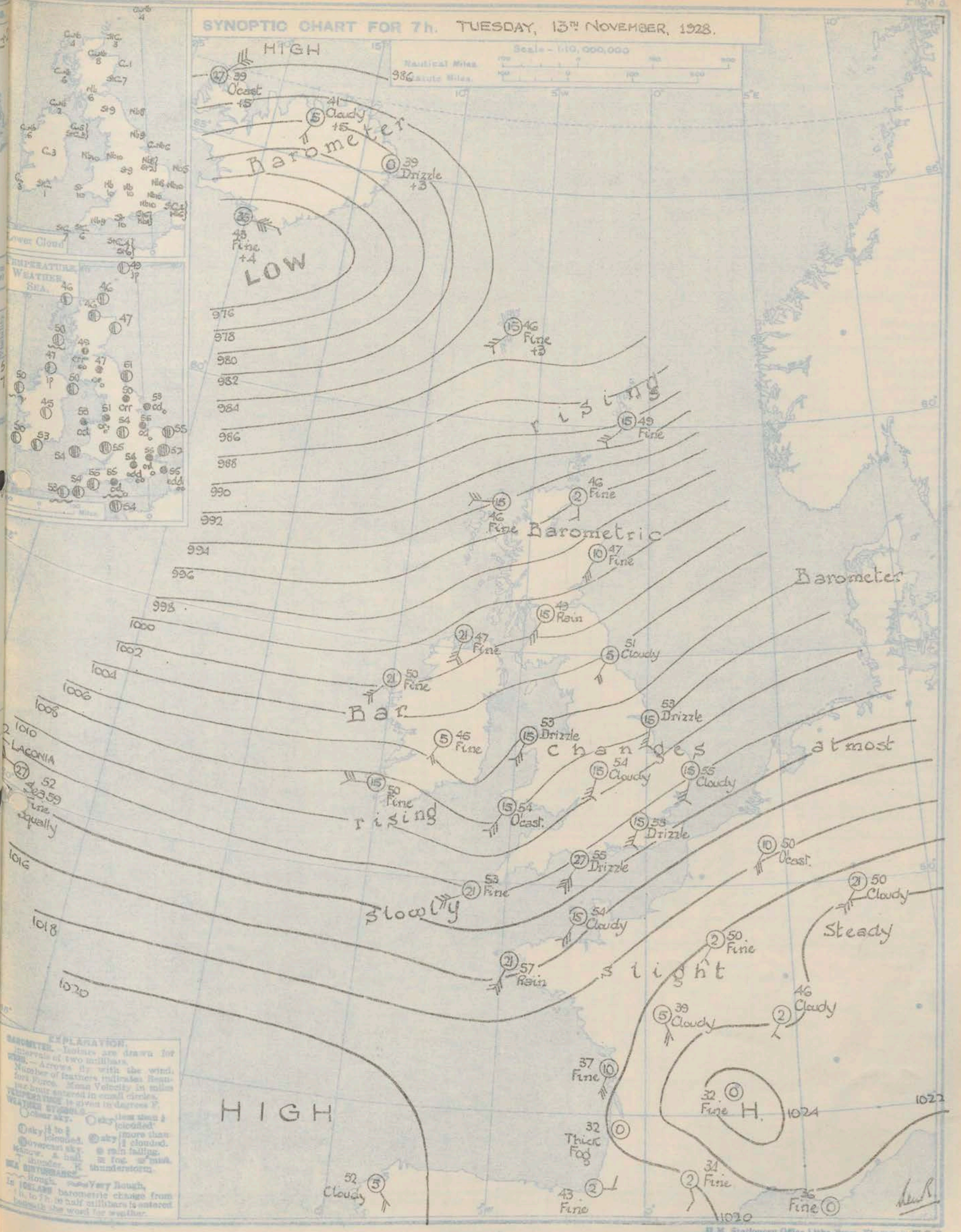
Secondaries to an almost stationary depression to the south of Iceland continue to move eastwards across the British Isles. Winds will be south-westerly to westerly, strong at times in exposed places and weather showery but with some bright intervals. Temperature will become somewhat lower but will remain high for the time of year.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 13th November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Southwesterly winds, strong at times locally; occasional local rain at first; showers and bright intervals later; rather mild at first then moderate temperature.	Continuing unsettled but with bright periods.
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	Southwest to west winds, strong at times locally; showery and bright periods; rather high to moderate temperature.	South cone still flying.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0950 G.M.T. G. C. SIMPSON, 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,...13th November...1928. No. 318...

Observations at 1h. G.M.T. 13th

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	987.9	+9	W	8	bc pr	50	75	8	1600	CuNb	5	-	5
Stornoway	90	995.2	+3	W	4	bc	*	*	7	*	*	*	*	4
Wick	81	994.4	+7	WSW	5	bc	47	75	8	2500	StCu	3	-	3
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	92	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1000.2	0	S	5	bc	49	85	7	5700	StCu	3	-	3
Renfrew	56	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	180	1001.5	+3	WSW	5	b	49	85	8	-	-	0	ACu	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1004.8	+2	S	1	b	50	75	7	-	-	0	-	0
Blacksod Point ...	18	1000.4	0	SW	4	c	52	85	6	*	-	0	ASt	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1006.7	0	SW'S	4	cr,c	53	92	6	800	Nb	5	ASt	10
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1007.6	+1	SW'S	5	c	55	92	7	4000	CuNb	6	ASt	10
Birmingham (Edgbaston)	565	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	266	1009.3	+2	SW	4	o+	57	92	6	2500	St	10	-	10
Gorleston	14	1012.1	+1	SW	4	c	57	92	6	-	-	0	ASt	10
Valentia (Cahirciveen)P	30	1006.7	-1	S	4	or+	52	97	5	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1008.2	0	SW	3	f50	54	97	3	220	St	10	-	10
Ross-on-Wye	220	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	57	*	*	*	*	*	*	*
Croydon	344	1013.6	0	WSW	5	od.	56	92	7	800	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	56	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1015.3	0	SW'W	5	0	54	92	6	450	St	10	-	10
Scilly (St. Mary's) ...	162	1011.3	0	SSW	6	od.	55	97	7	2500	St	10	-	10
Falmouth (Pendennis)	200	1011.5	+1	SW'W	5	od	53	97	6	2500	Nb	10	-	10
Plymouth (Cattewater)	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1012.4	0	SSW	6	0	56	85	6	1500	St	10	-	10
Southampton (Calshot)	10	1014.1	-1	SW'W	4	o/d	55	92	6	800	St	10	-	10
Dungeness	20	1015.3	+1	SW	5	0	56	85	7	800	St	10	-	10
Guernsey (Fort George) P	207	1015.2	-1	SW	4	bc-	55	85	6	2500	StCu	6	-	6

Observations at 7h. 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‡ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun 0-8
Lerwick	989.5	+5	SWW	4	bejp	49	85	8	1500	CuNb	4	ASt	6	*
Stornoway	993.3	0	W	4	bc/r	46	85	7	4000	CuNb	4	-	4	3
Wick	996.0	+1	S	1	bc	46	85	8	2500	StCu	3	-	3	1
Tiree	997.7	0	WSW	6	bc+	50	75	7	1500	CuNb	6	-	6	6
Nairn	996.4	*	WSW	5	c+	46	75	8	1500	CuNb	8	-	8	*
Aberdeen	999.4	0	SW	3	bc	47	85	8	1500	Cu	1	ACu	3	0
Malin Head	1000.6	+1	SSW	5	bejp	47	85	8	4000	CuNb	2	ACu	3	4
Renfrew	1001.6	-1	SW	4	cr,r.	49	92	7	1500	Nb	6	ASt	10	*
Edinburgh (Inchkeith)	1001.6	0	SW	4	bc	51	85	8	1500	St	6	-	6	3
Leuchars	1000.2	-1	SW	4	c-	49	85	7	2500	StCu	7	ACu	8	*
Eskdalemuir	1002.3	-1	SW	3	cr.	47	92	7	1500	St	9	ASt	10	*
Tynemouth	1004.4	-1	SW	2	c	51	85	7	1500	Nb	8	-	8	1
Blacksod Point ...	1001.9	+1	SW	5	bc	50	75	7	*	CuNb	6	-	6	6
Donaghadee	1003.8	-1	SW	3	c+	50	85	8	4000	Cu	8	-	8	3
Birr Castle	1005.9	*	SW	2	bc-	45	97	7	2500	Cu	3	-	3	*
Holyhead	1006.1	0	SW'S	4	od	53	92	6	800	Nb	10	-	10	3
Liverpool (Bidston) ...	1006.2	-1	SW'W	2	or+	51	97	8	2500	Nb	10	-	10	*
Chester (Sealand) ...	1006.2	0	SW	2	cd.	52	97	5	1500	St	9	-	9	*
Harrogate	1005.9	-1	SSW	2	crr	50	97	7	2500	Nb	9	ASt	10	*
Spurn Head	1007.0	0	S'W	4	cd.	53	97	7	4000	CuNb	6	ASt	10	2
Birmingham (Edgbaston)	1009.2	0	SSW	4	c-	54	92	8	450	St	9	-	9	*
Cranwell	1009.1	0	SSW	4	od.	55	97	8	1500	Nb	10	-	10	
Gorleston	1012.0	0	SSW	4	c	55	92	6	2500	Nb	5	ASt	10	1
Valentia (Cahirciveen)P	1008.7	+4	W	4	bc	50	75	8	4000	Cu	3	-	3	4
Roches Point	1008.4	+4	W	3	bc	53	92	8	1500	StCu	1	CuCu	3	4
Pembroke (St. Ann's H.)	1007.3	+1	SW	4	o	54	92	7	800	St	10	-	10	3
Ross-on-Wye	1009.0	0	SW	5	o	55	85	7	2500	Nb	10	-	10	*
Leafield	1010.6	0	SSW	4	od.	53	97	7	800	Nb	10	-	10	*
Winchester (Worthy Dn.)	1013.1	0	S'W	4	od.	53	97	8	450	St	10	-	10	*
S. Farnborough ...	1012.5	0	SSW	4	odd	54	92	6	220	Nb	10	-	10	*
London (Kew Obsy.) ...	1012.9	+1	SSW	4	od.	56	92	6	450	Nb	10	-	10	*
Croydon	1013.2	0	SW	4	o	54	85	7	450	St	10	-	10	
Shoeburyness	1013.8	0	SSW	3	c	54	97	7	1500	StCu	10	-	10	*
Clacton-on-Sea ...	1013.6	-1	SSW	3	o	52	92	6	4000	Nb	10	-	10	2
Felixstowe	1013.2	0	SSW	4	c	53	92	7	800	St	9	ASt	10	3
Lympne	1015.2	+1	SW	5	o/r	53	92	7	1500	St	10	-	10	*
Scilly (St. Mary's) ...	1012.1	+1	WSW	5	bc	53	97	7	4000	StCu	7	-	7	6
Falmouth (Pendennis)	1011.9	+1	W'S	4	c-	54	92	7	4000	StCu	6	ACu	8	1
Plymouth (Cattewater)	1011.6	0	SW	6	c	55	97	6	450	Nb	9	-	9	4
Portland Bill	1012.0	0	SW	6	od.	55	97	5	800	St	10	-	10	7
Southampton (Calshot)	1013.5	-1	SW'S	5	cd.	54	92	6	800	St	10	-	10	3
Dungeness	1014.4	-2	SW	5	cdd	55	85	7	2500	Nb	10	-	10	2
Guernsey (Fort George) P	1015.8	0	SW	4	c+	54	97	8	1500	St	10	-	10	2

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.11th. to 9h.12th. °F.	Temperature. Max. 9h.-17h. 12th. °F.	Rainfall.† Night 17h.-9h. 11-12th. mm.	Rainfall.† Day 9h.-17h. 12th. mm.	Sunshine. Sunrise to Sunset. 12th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	cbc	47	59	-	-	0.0
Douglas (I. o. M.) ...	o	oc	50	56	4	-	0.0
Llandudno ...	c	bcc	53	64	1	-	2.1
Colwyn Bay ...	cbcb	bbcb	55	67	1	-	3.3
Rhyl	bc	bc	54	62	0.6	-	3.8
Wallasey	cbcc	cocbc	49	62	3	-	0.4
Southport	opoco	oco	49	61	3	0.1	0.1
Blackpool	oro	oc	49	58	5	-	0.0
Ilkley	ogr	oc	45	61	1	0.4	0.0
Cleethorpes	oc	bc	48	63	0.6	-	2.7
Skegness	oro	o	54	60	2	0.6	0.0
Aberystwyth ...	pr	prm	52	57	10	4	0.0
Bath	c	cr.	55	60	1	trace	0.0
Cheltenham‖ ...	o	o	54	60	3	-	0.0
Leamington Spa ...	oe	oe	50	60	3	trace	0.0
Lowestoft	crcr	crc	46	59	2	2	0.0
Harwich & Dovercourt	ocr	ocroc	52	58	4	0.6	0.0
Maldon	ro	o	50	59	6	-	0.0
Southend	or	o	50	56	4	trace	0.0

Stations	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	oed	oed	53	59	7	1	0.0
Penzance	odm	ordm	55	57	1	0.5	0.0
Paignton	odm	odmq	55	57	3	2	0.0
Torquay	odrig	ordmq	55	57	3	6	0.0
Jersey	co	bc	55	57	-	trace	0.0
Weymouth	oe	old	55	57	1	2	0.0
Bournemouth ...	d	d	53	56	1	0.5	0.0
Ventnor ...	rom	odm	54	56	-	0.5	0.0
Portsmouth (S'thsea)	od	od	53	57	1	0.3	0.0
Bognor	oid.	oid.	54	56	2	0.5	0.0
Littlehampton ...	cd	c	49	55	2	0.4	0.0
Worthing	od	od	53	55	2	0.3	0.0
Brighton	doro	oco	53	56	4	2	0.0
Eastbourne‖	d.d.	d.o	55	57	3	0.3	0.0
Hastings‖	ofdmo	omod	54	56	4	1	0.0
Folkestone	orfe	orfe	52	56	1	0.1	0.0
Dover	od.d.	oid.	53	56	5	trace	0.0
Tunbridge Wells ...	o d	ocod	51	56	4	trace	0.0
Ramsgate	o	oc	53	58	5	-	0.0
Margate	cre	c	52	59	5	trace	0.0
Deal	od.o	o	51	58	5	0.3	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. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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.24464. Wednesday, 14th November, 1928.

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	993.2	-1	SW	3	c jp	50	85	7	1500	Cu Nb	5	A St	8	•
Stornoway	995.0	0	SW	4	bc/r	49	75	7	2500	Cu Nb	3	A Cu	5	•
Wick	997.7	+2	SW	2	bc	50	75	8	2500	St Cu	4	Ci St	6	•
Tiree	1000.4	+2	W'S	6	bc/r	49	85	8	1500	Cu Nb	3	–	3	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1000.0	0	SW	3	b	53	55	8	2500	Cu	1	Ci Cu	1	1
Malin Head	1003.9	+3	SW	5	bc jp	51	85	8	4000	Cu Nb	3	–	3	•
Renfrew	1004.2	+3	SW	4	bc+	52	65	7	2500	Cu	6	Ci	6	2
Edinburgh (Inchkeith)	1002.5	+2	SW	4	bc	50	75	8	1500	St	2	Ci	3	•
Leuchars	1002.3	+2	SW	4	bc-	52	75	7	2500	Cu Nb	3	Ci	4	1
Eskdalemuir	1005.2	+2	WSW	4	bc	46	75	8	2500	[illegible]	3	Ci	5	2
Tynemouth	1004.6	+2	W	3	bc/r	55	75	7	1500	Cu	4	Ci	5	•
Blacksod Point	1005.6	+3	W	5	bc	51	65	8	*	Cu Nb	4	–	4	•
Donaghadee	1006.4	+2	WSW	3	bc-	52	75	8	4000	Cu	3	Ci Cu	5	•
Birr Castle	1009.6	•	W	2	c+	52	75	7	1500	Cu	8	–	8	•
Holyhead	1009.2	+2	SW	4	bc	53	75	8	2500	Cu	4	A Cu	5	2
Liverpool (Bidston)	1009.1	+2	W'N	5	bc+	52	85	8	2500	St Cu	1	Ci Cu	7	•
Chester (Sealand)	1009.3	+3	W	2	bc-	57	65	7	2500	Cu	4	A Cu	7	1
Harrogate	1007.9	+1	SW	5	bc	51	85	8	4000	Nb	2	A Cu	4	•
Spurn Head	1008.0	+1	WSW	4	bc	56	75	7	4000	Cu Nb	5	–	5	•
Birmingham (Edgbaston)	1011.1	+1	WSW	3	bc+	58	65	8	2500	Cu	7	–	7	2
Cranwell	1009.7	+1	SW'W	4	bc	59	65	7	2500	Cu	3	–	3	1
Gorleston	1011.8	0	SW	4	bc-	58	85	6	4000	Cu	3	Ci Cu	6	•
Valentia (Cahirciveen)	1011.5	+2	W'S	4	b	52	75	8	2500	Cu	2	–	2	2
Roches Point	1012.5	+2	W	3	bc	52	75	8	2500	Cu	1	Ci	5	•
Pembroke (St. Ann's H.)	1011.7	+5	W	4	c-	53	75	7	1500	Cu	3	A St	8	•
Ross-on-Wye	1011.8	+1	W'S	3	c	55	65	8	4000	Cu	3	A Cu	8	2
Leafield	1012.0	+1	WSW	5	b	55	75	9	4000	Cu	2	–	2	2
Winchester (Worthy Dn)	1013.2	0	SSW	4	bc	59	75	8 8	2500	Cu Nb	6	Ci	6	2
S. Farnborough	1013.2	0	SW'S	4	bc-	59	75	7	1500	Cu	4	Ci	5	2
London (Kew Obsy.)	1013.0	-1	SW	4	bc-	58	85	8	1500	Cu	3	–	3	1
Croydon	1013.7	-1	SW'W	4	c/d	57	85	7	800	Nb	8	–	8	2
Shoeburyness	1013.7	-1	SW'S	4	bc-	57	92	8	2500	St Cu	1	A Cu	3	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1013.6	0	SSW	5	c/d	55	85	7	800	St	8	Ci	9	2
Lympne	1014.3	-1	SW	4	c	55	85	7	800	St	10	–	10	2
Scilly (St. Mary's)	1014.3	+1	W	4	c	53	85	8	4000	St Cu	10	–	10	•
Falmouth (Pendennis)	1014.2	0	W'SW	2	c+	54	85	8	4000	Cu Nb	6	A St	10	•
Plymouth (Cattewater)	1014.5	+1	W	4	c	55	75	8	2500	St Cu	9	–	9	2
Portland Bill	1013.5	+1	WSW	4	bc-	56	85	6	1500	St Cu	7	–	7	•
Southampton (Calshot)	1014.2	0	WSW	5	bc-	57	85	7	1500	Cu	4	A Cu	5	2
Dungeness	1015.3	-2	SW	5	bc-	55	85	8	1500	Cu	4	A Cu	6	•
Guernsey (Fort George)	1016.2	0	WSW	3	c	56	75	8	1500	St Cu	9	–	9	•

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	Sea. 0-9
Lerwick	994.8	+1	W	2	c/r	45	85	7	1500	Cu Nb	4	A St	8	•
Stornoway	998.5	+4	SW	3	bc/r	46	75	7	2500	Cu Nb	4	–	4	2
Wick	999.1	+2	SW	3	bc	44	85	8	2500	St Cu	3	A Cu	5	0
Tiree	1002.2	+2	WSW	6	b	48	85	8	2500	Cu	2	–	2	4
Nairn	1000.1	•	SW	2	bc-	43	85	8	2500	Cu	3	–	3	•
Aberdeen	1002.9	+3	SSW	3	b	46	75	7	2500	Cu	1	–	1	0
Malin Head	1005.4	+2	SW	5	bc jp	47	92	8	4000	Cu Nb	1	A Cu	3	4
Renfrew	1005.8	+2	WSW	4	bc	47	75	7	4000	Cu	2	A Cu	3	•
Edinburgh (Inchkeith)	1004.5	+3	SW	4	bc	47	85	8	1500	St	2	A Cu	3	2
Leuchars	1004.5	+4	WSW	3	b	44	85	8	2500	St Cu	1	–	1	•
Eskdalemuir	1007.6	+4	SW	3	bc	42	85	7	2500	St Cu	6	–	6	•
Tynemouth	1007.0	+2	SW	2	bc-	48	75	6	800	St	4	–	4	1
Blacksod Point	1006.1	+1	W	4	bc	47	85	7	•	Cu Nb	6	–	6	6
Donaghadee	1008.5	+3	WSW	1	b-	45	85	8	–	–	0	–	0	1
Birr Castle	1010.2	•	S	2	bc-	44	85	7	1500	Cu Nb	3	–	3	•
Holyhead	1010.9	+2	SW	4	bc-	51	65	7	2500	Cu	2	Ci	3	2
Liverpool (Bidston)	1011.5	+2	WSW	3	bc+	48	75	8	4000	St Cu	2	Ci Cu	6	•
Chester (Sealand)	1011.4	+3	WSW	3	c	50	75	7	–	–	0	A Cu	9	•
Harrogate	1010.9	+3	SW	3	b	46	75	7	–	–	0	A Cu	1	•
Spurn Head	1011.0	+3	WSW	2	bc	49	92	6	2500	St	5	–	5	2
Birmingham (Edgbaston)	1013.8	+3	WSW	2	c+	50	65	8	2500	St Cu	9	–	9	•
Cranwell	1012.6	+4	WSW	3	c	48	85	6	4000	St Cu	8	Ci	8	•
Gorleston	1013.2	+3	SW'S	2	b-	54	85	7	–	–	0	Ci Cu	1	1
Valentia (Cahirciveen)	1011.6	+1	WSW	4	bc	49	85	8	2500	Nb	7	–	7	5
Roches Point	1013.2	+1	W	2	b	49	85	8	1500	Cu	1	–	1	4
Pembroke (St. Ann's H.)	1012.9	+2	W	3	bc	53	75	8	1500	Cu	5	Ci St	7	3
Ross-on-Wye	1013.4	+2	WSW	3	c	51	75	8	2500	St Cu	6	A St	10	•
Leafield	1014.0	+2	SW	3	c	49	85	8	4000	St Cu	8	–	8	•
Winchester (Worthy Dn)	1014.8	+2	SW	1	bc-	52	85	8	2500	St Cu	4	–	4	•
S. Farnborough	1014.3	+2	SW	1	bc	52	85	7	2500	St Cu	7	–	7	•
London (Kew Obsy.)	1014.7	+2	WSW	2	c/r	54	85	6	1500	Nb	8	A St	10	•
Croydon	1014.6	+2	W'N	3	c r₀	53	85	6	1500	Nb	10	–	10	•
Shoeburyness	1014.7	+2	WSW	4	bc	52	97	8	2500	St Cu	3	–	3	•
Clacton-on-Sea	1014.4	+1	S	3	bc	52	92	7	4000	St Cu	3	–	3	•
Felixstowe	1014.2	+2	SW	2	bc	53	86	7	2500	St Cu	3	–	3	2
Lympne	1015.4	+2	SW'W	2	b-	51	97	7	–	–	0	A Cu	0	3
Scilly (St. Mary's)	1015.1	0	WSW	2	bc	51	75	8	4000	St Cu	7	–	7	4
Falmouth (Pendennis)	1015.0	+1	–	0	bc-	51	92	7	4000	Cu Nb	2	A St	7	0
Plymouth (Cattewater)	1015.4	+2	W	1	c	52	85	7	1500	St	9	–	9	0
Portland Bill	1014.3	+2	SW	4	c r₀	55	85	8	2500	Nb	8	–	8	5
Southampton (Calshot)	1014.9	+1	W'S	3	c-	53	92	8	2500	Cu	8	–	8	0
Dungeness	1015.8	+1	SW	3	c r₀+	55	92	7	2500	Nb	8	–	8	3
Guernsey (Fort George)	1016.5	+1	W	2	c d₀ d₀	51	97	5	450	Nb	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. (9 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	cdb	c d r c	r r b c	58	44	36	0.2	0.6	3.4	*	*	5
Croydon	244	o n d₀	c b c r	o r r b	59	42	38	Tr	2	1.9	•	•	5
Greenwich (Royal Obsy.)	149	c b c c	c b c	r r c b w	60	42	29	–	1	2.9	71	86	4
City (Bushill Row)	80	•	•	•	•	•	•	•	•	1.3	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	60	45	42	1		2.8	73	91	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	3.4	•	•	•
Camden Square	110	o b c c	c o r o	•	69	46	*	Tr	1	•	•	91	•
Kensington Palace	80	c o r	c b c n	•	60	44	35	0.4	1	•	(At 15h.) 87	85	•
Hampstead Observatory	450	•	•	•	58	41	33	0.6	0.5	2.4	•	97	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0.4	13th 16h	<0.3	14th 6h

Kew Observatory

Max.	Time.	Min.	Time.
0.2	13th 19h	<0.1	14th 3h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 13th ..... 17h. 15m. to 14th ..... 6h. 15m.

Stars	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	2.55	22
δ Ursæ Minoris	13.0	2.47	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.

14th to 18th November, 1928.

STATIONS.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.15	11.38	15.59
	7.17	11.38	15.58
Greenwich	7.18	11.45	16.10
	7.20	11.45	16.9
Wick	8.1	11.57	15.52
	8.3	11.57	15.50
Valentia	8.1	12.26	16.50
	8.2	12.26	16.48

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. 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.

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 66 yards.
0. Dense fog.	
1. Thick fog.	330 „
2. Fog.	660 „
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.	

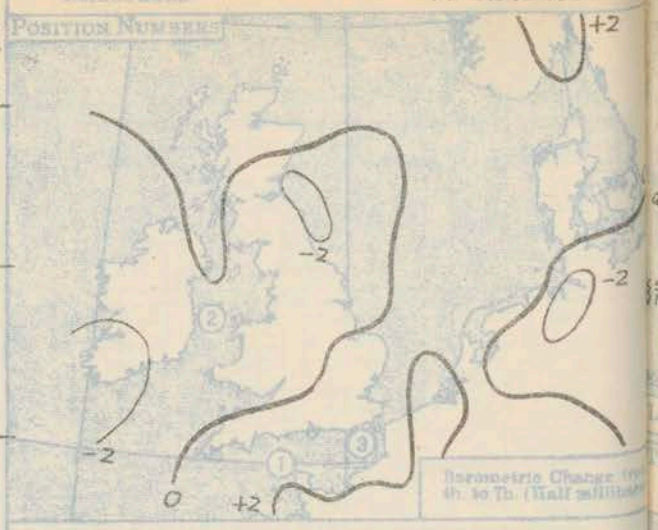
† Tr. = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 13th	Weather. 18h.-18h. 13th	Weather. 18h. 13th to 1h. 14th	Weather. 1h.-7h. 14th	Temperatures. Max. Day. 7h.-18h.	Temperatures. Min. Night. 18h.-7h.	Temperatures. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 13th Hours.
Lerwick	cpr₀	cpr₀	ʷbcpr	bccpr	51	45	•	6	<8.00	3	<21.00	0.6
Stornoway	p	p	b-bc	ʷcprbc	50	41	•	2	<8.00	1	<21.00	3.5
Wick	b bc	b bc	b-bc	b-bc	50	41	•	–	–	–	–	•
Tiree	bcp	pr bc	pr bc	PR bc	51	41	37	0.6	<8.00	3	<21.00	5.7
Fairn	cbc	bcp	bcq	bc	49	40	•	Tr	17.30	–	–	5.0
Aberdeen	bcc, bq	b	bbc	bcbw	53	39	31	–	–	–	–	4.5
Malin Head	bcpr₀	bcpr₀	bcpr	bcpr	52	41	•	1	<8.00	2	<21.00	4.4
Renfrew	cr₀cpbc	bc	bcb	bcp₀	52	43	38	0.4	<8.00	Tr.	–	4.2
Edinburgh (Inchkeith)	b-bc	b-bc	bcb	bbc	51	43	39	–	–	–	–	3.8
Leuchars	c, bc	b-bc	bwbcw	bcwbw	52	37	32	–	–	–	–	4.0
Eskdalemuir	cprbc	bc	bcb	bbc	48	39	38	2	<8.00	–	–	2.3
Tynemouth	ofr₀m	bc	bc	bccir₀	55	42	28	0.5	<8.00	Tr.	6.30	•
Blacksod Point	Pq bc	Pqc	pqc	pqbc	51	43	•	2	•	2	•	•
Donaghadee	cbc	bcb	b	bbc	63	39	•	–	–	–	–	•
Birr Castle	bcc	cbb₀r₀	bc	bcpr	53	38	31	0.6	13.30	1	1.30	6.6
Holyhead	Rcbc	bcbc	bcb	bcc	54	47	45	12	<8.00	Tr.	6.30	4.4
Liverpool (Bidston)	dcpp₀	bcbbc	bcbw	crbcb	52	40	35	0.6	<8.00	0.3	4.30	3.8
Chester (Sealand)	bccid₀m	bcc	cbc	bcPR	57	38	31	0.1	<8.00	1	4.30	2.8
Harrogate	crrbcp	bcb	b	b	53	41	36	1	<8.00	–	–	1.8
Spurn Head	cprbc	oprbc	c	cbc	56	43	•	0.2	<8.00	–	–	1.6
Birmingham (Edgbaston)	cpr₀bc	bcc	c	cprb	58	41	38	0.5	9.00	0.2	4.30	3.7
Cranwell	cbcc	cp₀bcc	cm₀	cmbwm	59	41	38	Tr	13.30	Tr.	–	4.0
Corleeton	cq	bccpr₀	bbcc	oirbcb	58	46	43	Tr	15.30	1	2.30	2.2
Valentia (Cahirciveen)	bcpb	bbcp₀	bccpbc	bccir	63	44	39	0.5	9.00	3	<21.00	6.2
Roches Point	bc	bcb	bbcp₀b	bbcpc	53	45	•	–	–	3	<21.00	•
Pembroke (St. Ann's H.)	cp₀	cbc	bccprrH	cbcPHl	54	50	•	Tr	9.00	3	<21.00	0.0
Ross-on-Wye	cq bcc	c	cb	bcpopcb	58	43	33	–	–	0.6	4.30	2.3
Leafield	ocd₀prb	bcc	c	bcbw	56	39	37	0.3	9.00	Tr.	–	3.0
Winchester (Worthy Dn.)	od₀m₀cbc	bccbc	bccr₀	cbcbF	60	36	29	0.6	<8.00	0.6	<21.00	3.3
S. Farnborough	od₀d₀c	bc^u/^n bc	bcodor	obw	59	38	26	0.5	<8.00	1	22.00	3.4
London (Kew Obsy.)	cdb	cd₀rc	cr₀r	bcb	58/59	44	36	0.2	15.30	0.6	22.00	3.4
Croydon	orm₀cd₀	cbcm₀rc	corrm	orr₀b	59	42	38	Tr	9.00	2	<21.00	1.9
Shoeburyness	cbc	bbc	bccir	cirbm	59	43	40	–	–	1	?	2.9
Clacton-on-Sea	ocbc	bc	bcco	ocbc	55	44	40	–	–	–	–	2.4
Felixstowe	bccd₀	cbcc	bc	crbcb	56	45	42	Tr	11.00	0.4	1.30	3.8
Lympne	oc	cd₀m₀pcb	bor₀cm₀	orr₀fb	55	43	40	0.2	13.30	7	<21.00	0.0
Scilly (St. Mary's)	bcc	bc	bcp₀	bp₀bc	54	49	•	–	–	0.3	24.00	0.0
Falmouth (Pendennis)	c	cbcp₀	bcp₀	bcpr	56	47	•	Tr	14.30	1	24.00	0.0
Plymouth (Cattewater)	crm₀q	cir	cb	bvwc	56	42	37	Tr	14.30	Tr.	–	0.6
Portland Bill	od₀bc₂	bcc	oir₀bc	bcc	57	52	•	0.2	<8.00	0.1	<21.00	•
Southampton (Calshot)	odd₀cmb	bcc	crr₀r	cbcbw	57	43	31	0.2	<8.00	1	<21.00	3.8
Dungeness	cod₀cb	bccd₀	cr₀orr	orrcbc	57	47	•	0.2	<8.00	7	<21.00	•
Guernsey	c	codd₀m₀	oddrrcb	bbcv	67	49	•	1	14.30	3	<21.00	0.0

14th November



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	13th 10h	Cambria	W'S	4	c ⊕	54	55
1	" 12h	St Helier	W	5	c	58	58

GENERAL INFERENCE.

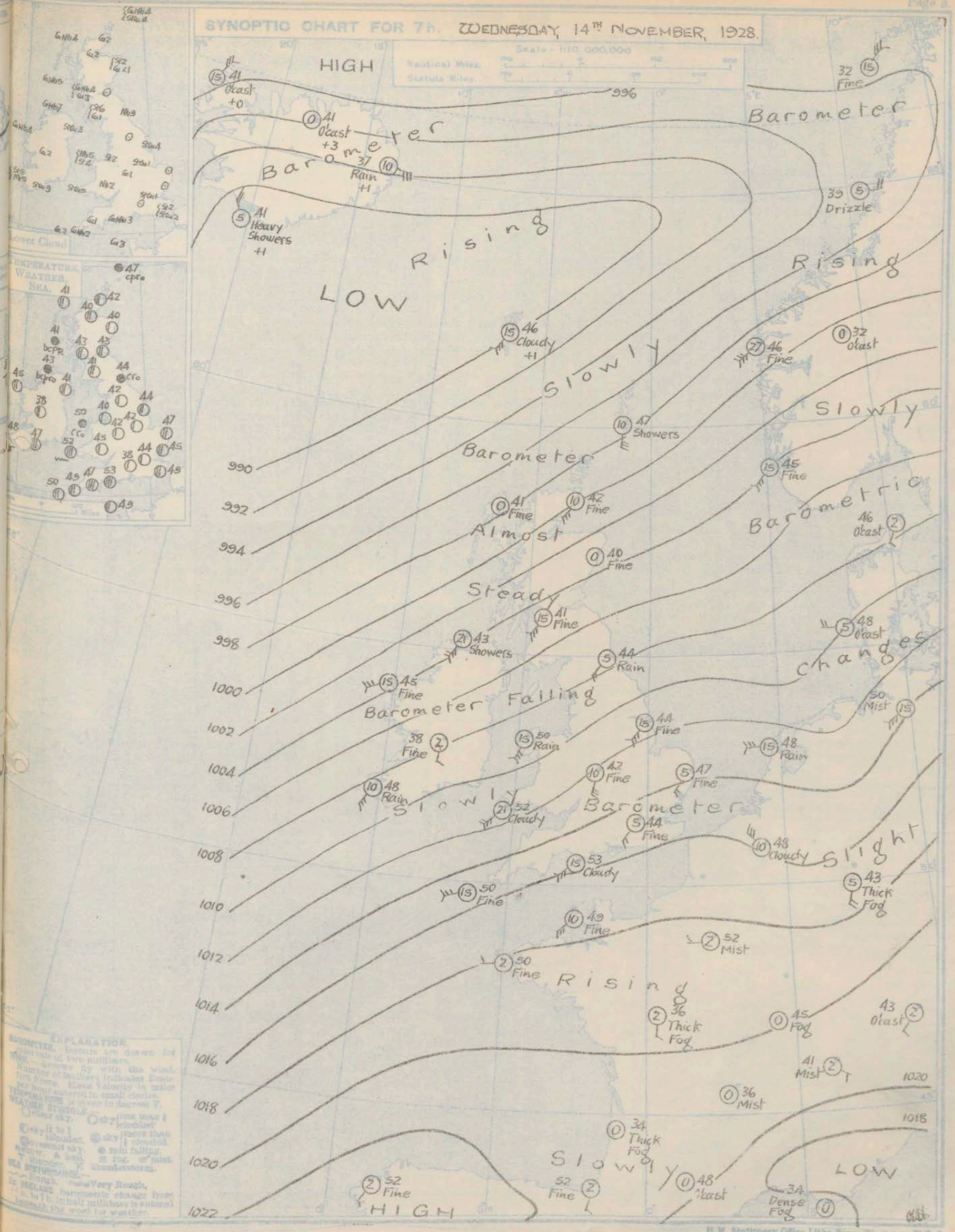
A depression to the south of Iceland is filling up but another in Mid-Atlantic will rapidly approach the British Isles. Weather at first will be quiet with showery and bright periods but an early renewal of rainy weather with freshening winds is likely along our western seaboard, the disturbed conditions later spreading to eastern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 14th November, 1928.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Southwesterly winds light to moderate today, freshening tomorrow; bright periods with occasional showers today; less settled tomorrow; mist locally at night; moderate temperature.	Unsettled and mild.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Southwesterly to southerly winds, moderate to fresh, increasing and probably reaching strong to gale at times; bright and showery periods at first, rainy later; moderate temperature to rather mild.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.	
12. S.W. Scotland & Isle of Man 13 {A. W. Scotland B. NW. Scotland	As 5 - 8.	
~~14. Mid Scotland~~ 15. N.E. Scotland 16. Orkneys and Shetlands.	As 1 - 4.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 8.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0950 G.M.T. G. C. Simpson, 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, 14TH NOVEMBER, 1928.
HIGH
LOW
Barometer Rising Slowly
Barometer Almost Steady
Barometer Falling Slowly
Barometer Rising Slowly
Barometer Rising Slight Changes
Barometric
LOW
HIGH
996
990
992
994
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION......Wednesday, 14th November 1928. No. 319.

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	84	996.4	+2	SW	3	bc	47	75	8	1500	Cu	4	-	4
Stornoway	20	1000.0	0	WSW	3	bc-	*	*	7	*	*	*	*	4
Wick	81	1000.4	+1	SW	3	bc	44	92	8	2500	StCu	4	-	4
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	39	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1004.6	-1	S	5	bc/pr°	41 [42]	92	8	4000	CuNb	3	-	3
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1005.4	+1	SW	4	b	45	85	8	1500	St	1	ACu	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1009.0	0	WSW	2	bc	43	92	7	1500	Cu	3	-	3
Blacksod Point	18	1004.6	-1	WSW	5	bc	47	75	6	*	CuNb	7	-	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1010.0	-1	SW	4	bc+	50	75	7	2500	Cu	4	ACu	4
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1011.6	0	SW'S	7	c	46	92	6	2500	St	8	-	8
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1013.0	0	SW	3	c-	46	85	6	-	-	0	CiSt	9
Gorleston	14	1013.2	0	WSW	1	c	49	92	6	-	-	0	ASt	10
Valentia (Cahirciveen) P	30	1010.6	-1	SW	6	bc/PH	48	85	8	*	CuNb	5	-	6
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1012.1	-1	WSW	4	c/PH	50	85	7	800	CuNb	8	-	8
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	51	*	*	*	*	*	*	*
Croydon	244	1014.9	0	W	2	or,r.	49	92	6	800	Nb	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1014.9	0	NW'W	2	or,r°	49	97	6	450	Nb	10	-	10
Scilly (St. Mary's)	163	1016.6	0	WSW	4	b/pr	51	85	9	4000	CuNb	2	-	2
Falmouth (Pendennis)	200	1015.4	0	W	1	bc/pr	48	85	7	4000	CuNb	3	-	3
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1014.8	0	WSW	4	bc-	53	85	8	2500	Cu	3	-	3
Southampton (Calshot)	10	1016.3	0	-	0	c/r	50	92	7	800	Nb	8	-	8
Dungeness	20	1014.9	-1	WSW	3	orr	52	97	6	1500	Nb	10	-	10
Guernsey (Fort George) P	265	1016.4	0	-	0	bc+	49	92	9	4800	StCu	6	-	6

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	Sea 0-9
Lerwick	996.7	+1	S'W	3	c/pr°	47	85	8	1500	CuNb	8	-	8	*
Stornoway	997.9	0	-	0	bc	41	92	7	4000	CuNb	4	-	4	0
Wick	1000.0	0	SW	3	bc	42	92	8	2500	Cu	3	CiSt	6	0
Tiree	1001.4	0	SW'S	4	bc/PR	41	97	8	1600	CuNb	5	-	5	4
Nairn	1000.9	*	WSW	1	bc+	40	85	8	2500	Cu	2	ACu	5	*
Aberdeen	1003.7	0	-	0	b	40	92	7	1500	St	2	-	2	0
Malin Head	1003.9	-1	SW	5	bc/pr°	43	92	8	4000	CuNb	7	-	7	4
Renfrew	1005.1	-1	SW	4	bc+	43	85	7	2500	CuNb	7	-	7	*
Edinburgh (Inchkeith)	1004.7	-1	SSW	4	bc	43	85	8	-	-	0	ACu	5	2
Leuchars	1004.1	-2	SW	3	bc+	37	97	7	4000	StCu	2	Ci	3	*
Eskdalemuir	1006.4	-1	SW	4	bc	41	85	7	1600	St	7	-	7	*
Tynemouth	1007.8	-2	SW	2	cr°	44	92	6	1500	Nb	9	-	9	1
Blacksod Point	1003.8	0	WSW	4	bc	45	85	7	*	CuNb	4	-	4	5
Donaghadee	1008.3	0	WSW	2	bc+	41	97	8	6700	StCu	3	Ci	4	1
Birr Castle	1007.7	*	S	1	bc	38	97	7	1500	Cu	2	ACu	3	*
Holyhead	1009.1	-1	SW'S	4	cr°	50	75	8	1500	Nb	9	-	9	2
Liverpool (Bidston)	1010.1	0	S	3	b+	40	92	8	4000	St	2	ACu	2	*
Chester (Sealand)	1010.9	0	SE'S	3	bc	41	92	8	2500	St	5	-	5	*
Harrogate	1010.6	-1	SW	4	b	42	85	7	-	-	0	ACu	1	*
Spurn Head	1010.9	0	SW'W	4	bc	44	92	6	6700	StCu	4	Ci	5	2
Birmingham (Edgbaston)	1013.4	-1	SSW	3	b-	42	92	8	1500	Cu	1	-	1	*
Cranwell	1012.9	0	SW'S	3	b	42	92	6	4000	StCu	1	-	1	*
Gorleston	1013.6	0	SW	2	bc-	47	92	6	-	-	0	ASt	3	0
Valentia (Cahirciveen) P	1008.1	-2	SW	3	or	48	92	8	2500	St	10	-	10	3
Roches Point	1010.5	-2	W	2	c	47	92	8	1600	StCu	9	-	9	4
Pembroke (St. Ann's H.)	1011.2	-1	WSW	5	c+	52	75	8	800	StCu	5	CiSt	8	6
Ross-on-Wye	1013.6	-1	SSW	2	b	45	92	7	2500	Nb	2	-	2	*
Leafield	1014.2	0	SW'W	3	Fo	40	97	1	220	St	10	-	10	*
Winchester (Worthy Dn.)	1016.1	0	-	0	Fb	37	97	1	-	-	0	Ci	1	*
S. Farnborough	1015.4	+1	SW'S	1	b	38	97	6	-	-	0	Ci	1	*
London (Kew Obsy.)	1015.6	+1	SW	2	b	44	97	5	5700	StCu	1	-	1	*
Croydon	1015.3	0	SW	3	b+	42	97	6	-	-	0	ACu	1	*
Shoeburyness	1015.6	+1	SW	1	b	45	97	6	-	-	0	ASt	2	*
Clacton-on-Sea	1015.0	0	WSW	3	bc	45	97 [7]	6	-	-	0	ACu	3	1
Felixstowe	1015.0	0	SW'W	1	b	46	92	6	-	-	0	-	0	0
Lympne	1016.3	+1	W'S	3	b	43	97	6	-	-	0	ACu	2	*
Scilly (St. Mary's)	1015.5	0	WSW	4	bc	50	75	8	4000	Cu	2	Ci	3	4
Falmouth (Pendennis)	1015.6	0	SW	2	bc	49	85	8	4000	CuNb	2	CiSt	6	1
Plymouth (Cattewater)	1016.0	+1	W	3	c+	47	92	7	2500	Cu	1	CiSt	9	1
Portland Bill	1015.0	0	WSW	4	c+	53	75	8	2500	CuNb	3	CiSt	8	2
Southampton (Calshot)	1016.0	+1	WSW	1	b	43	92	7	2500	CuNb	1	-	1	0
Dungeness	1016.0	+1	WSW	2	bc/r	49	97	7	1600	Cu	4	-	4	2
Guernsey (Fort George) P	1017.7	+2	WSW	3	bc	49	75	8	2600	Cu	3	Ci	5	3

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 12th to 9h. 13th (4) °F	Temperature Max. 9h.–17h. 13th (5) °F	Rainfall† Night 17h.–9h. 12th–13th (6) mm.	Rainfall† Day 9h.–17h. 13th (7) mm.	Sunshine Sunrise to Sunset 13th (8) hr.
Berwick-on-Tweed	bc	bc	48	54	-	-	5.3
Douglas (I. o. M.)	b	b	49	53	2	-	6.0
Llandudno	pc bc	bcc	51	54	5	Trace	4.1
Colwyn Bay	cb	bbcb	52	56	1	-	3.4
Rhyl	bc	b	51	56	1	-	4.3
Wallasey	rocbc	bkc	51	54	3	0.5	3.4
Southport	rorc	bcc	*51	52	3	1	2.2
Blackpool	or	ocp	50	54	6	1	3.0
Ilkley	op	occ	48	53	4	-	0.0
Cleethorpes	ob	oco	55	59	-	-	1.5
Skegness	ocbc	bcc	53	59	-	-	5.2
Aberystwyth	prc	pbc	52	57	9	0.3	0.8
Bath	pcbc	bcp.	56	59	0.3	Trace	1.7
Cheltenham‡	cbc	bcc	55	58	0.5	-	2.1
Leamington Spa	c	c	54	59	1	-	3.0
Lowestoft	c	c	53	59	Trace	-	2.0
Harwich & Dovercourt	boc	bc	53	57	-	-	3.7
Maldon	cbcc	bcc	54	59	-	-	1.2
Southend	oc	bcb	53	59	-	-	3.3

Stations (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	occp	oc	53	55	4	2	0.3
Penzance	c	cz	53	55	4	-	0.0
Paignton	rdpo	oco	55	60	4	-	1.1
Torquay	odpcjd	cop°	55	57	4	{Trace}	1.1
Jersey	dbc	cr	54	57	-	1	0.3
Weymouth	c	bcb	54	59	2	-	2.7
Bournemouth	ob	bbc	48	59	2	-	3.5
Ventnor	rodm	c	53	57	0.5	Trace	2.0
Portsmouth (S'thsea)	ocbc	bcc	54	59	1	-	3.3
Bognor	cbc	bc	53	56	-	-	2.2
Littlehampton	bc	c	54	56	-	-	3.3
Worthing	c	bcc	53	57	-	-	3.5
Brighton	oco	ocbcc	54	56	-	-	1.0
Eastbourne¶	o	opcbc	54	57	Trace	0.2	0.0
Hastings‖	cbcoo	ocog	53	57	0.6	0.3	0.3
Folkestone	o	or°om	52	56	0.1	Trace	0.0
Dover	co	ocod°	54	55	Trace	Trace	0.0
Tunbridge Wells	o	ocbc	53	57	-	-	0.5
Ramsgate	c	cbc	53	56	-	-	0.5
Margate	bc	cbc	54	57	-	-	1.8
Deal	cbcc	od°o	53	57	-	Trace	1.0

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 7h G.M.T. and, at Guernsey, the sunshine readings are 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. ◆ 12h.–9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24465. Thursday, 15th November, 1928. Page 1.

STATIONS. (For heights see p. 4).	13h. G.M.T. 14th: 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	State of ground.	18h. G.M.T. 14th: 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	Sea. 0-9
Lerwick	999·0	-2	SW	2	bc	48	75	8	1500	Cu	6	-	6	·	997·8	-1	S'W	1	bc	45	85	8	1500	Cu	4	-	4	·
Stornoway	997·4	-1	SW	3	bc	46	85	7	4000	CuNb	3	-	3	·	994·8	-3	SW	1	bc	43	92	7	4000	Cu	3	-	3	1
Wick	1000·3	0	SW	3	bc	45	85	8	2500	StCu	4	CiSt	6	·	998·2	-2	SW	3	bc	43	97	8	2500	StCu	3	CiSt	5	0
Tiree	1000·5	0	SW	5	bc/pr	47	75	9	1500	CuNb	5	-	5	1	996·2	-8	SSW	5	c	46	85	8	1500	StCu	10	-	10	4
Nairn	·	·	·	·	·	·	·	·	·	·	·	·	·	·	998·1	·	-	0	b-	36	85	8	-	-	0	-	0	·
Aberdeen	1002·8	-1	SW	2	b	48	65	8	2500	Cu	1	ACu	1	1	1000·8	-2	SSW	2	·	41	85	6	-	-	0	ACu	1	0
Malin Head	1001·9	-2	S	5	bc	44	85	8	4000	Cu	1	CiCu	5	·	992·3	-12	SE	5	orr	45	97	6	4000	Nb	10	-	10	4
Renfrew	1003·7	-2	SW	4	bc	48	65	7	4000	Cu	5	-	5	1	1000·5	-4	SSE	3	cror	43	85	6	-	-	0	ASt	10	·
Edinburgh (Inchkeith)	1003·7	-1	SSW	4	bc	46	75	8	4000	Cu	5	ACu	6	·	1002·3	-2	SSW	3	bc	44	75	8	1500	St	5	-	5	1
Leuchars	1003·2	-2	SW	3	bc/pr	46	75	7	2500	StCu	4	-	4	1	1000·9	-3	S	1	bct	41	85	7	-	-	0	Ci	7	·
Eskdalemuir	1005·0	-1	SW'S	4	bc	43	85	7	1500	St	6	-	6	2	1001·3	-5	S	2	oror	41	97	7	1500	Nb	10	-	10	·
Tynemouth	1006·5	-1	SW	3	bc/r	47	85	7	1500	Cu	5	-	5	·	1004·2	-2	S	2	oro	46	85	7	1500	Nb	10	-	10	1
Blacksod Point	998·9	-4	WSW	4	orr	47	92	8	*	Nb	10	-	10	·	988·0	-8	SE	5	oR	49	92	7	·	Nb	10	-	10	7
Donaghadee	1006·6	-2	WSW	3	bct	47	75	8	5700	StCu	3	Ci	5	·	998·4	-8	SW	4	cro	49	85	7	2500	Nb	6	ASt	9	3
Birr Castle	1002·2	·	S	3	cdo	50	85	6	1500	Nb	4	ASt	10	·	990·6	·	S	4	or	51	92	6	800	Nb	10	-	10	·
Holyhead	1007·2	-3	SW'S	4	cro	51	85	8	1500	Nb	6	ASt	9	1	1001·4	-8	S	6	orr	50	85	5	800	Nb	10	-	10	5
Liverpool (Bidston)	1008·3	-1	SW'W	4	crоrо	50	75	7	1500	Nb	9	-	9	·	1003·5	-6	SE'S	3	o	48	75	7	800	Nb	10	-	10	·
Chester (Sealand)	1008·9	-2	SW	4	crоrо	51	75	7	2500	St	10	-	10	1	1004·1	-6	SSE	4	c	49	85	8	1500	St	2	ASt	9	·
Harrogate	1008·9	-1	SW	3	bc/pr	43	92	6	4000	Nb	7	-	7	·	1005·5	-3	S	3	b/r	45	92	5	2500	St	2	-	2	·
Spurn Head	1009·8	-1	SW	4	bc	52	75	6	4000	Cu	3	ACu	6	·	1007·8	-1	S'W	4	bc	49	85	6	4000	Nb	6	-	6	2
Birmingham (Edgbaston)	1011·6	-2	SW	4	c	51	75	8	4000	Nb	6	Ci	8	2	1007·8	-4	S	4	ct	47	75	8	2500	StCu	10	-	10	·
Cranwell	1011·9	-2	SW	5	bct	50	75	7	4000	StCu	1	CiCu	7	1	1009·8	-2	S	4	c	47	75	6	4000	StCu	6	ACu	9	·
Gorleston	1013·3	-2	SW	4	bc	52	75	7	-	-	0	Ci	4	·	1011·8	-2	SSW	3	bc-	49	85	6	-	-	0	ASt	3	0
Valentia (Cahirciveen)	999·3	-13	S'E	6	crr	51	92	7	1500	St	7	ASt	10	2	992·3	-2	SW	6	c	55	85	8	1500	St	7	ASt	10	8
Roches Point	1005·1	-5	SW	4	c	53	85	8	1500	CuNb	9	-	9	·	995·8	-7	W	4	c/r	45	97	7	800	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	1009·4	-4	SW	5	c	53	75	8	2500	Cu	4	ACu	8	·	1001·9	-9	SW'S	7	orr	50	97	5	450	Nb	10	-	10	4
Ross-on-Wye	1011·7	-3	WSW	3	ct	52	75	8	4000	Cu	5	ACu	8	2	1007·6	-5	S	4	cro	50	75	7	2500	Nb	5	ASt	10	·
Leafield	1012·9	-2	SW	5	bc	51	65	9	2500	Cu	1	CiSt	4	1	1009·9	-4	S	4	ct	{46}	85	8	-	-	0	ASt	9	·
Winchester (Worthy Dn.)	1014·7	-3	SW'S	3	bc	54	65	8	2500	Cu	3	CiCu	6	1	1011·8	-3	S'W	4	bc	48	85	8	2500	StCu	6	-	6	·
S. Farnborough	1014·7	-2	SW'W	4	bc	55	55	8	2500	Cu	2	Ci	5	1	1011·9	-2	S	2	bc/pr	49	85	8	2500	Nb	2	ASt	7	·
London (Kew Obsy.)	1014·7	-3	WSW	4	bct	53	65	8	2500	Cu	1	CiCu	6	1	1012·1	-2	S	2	b-	49	85	6	-	-	0	ACu	1	·
Croydon	1014·5	-3	WSW	4	ct	53	65	7	2500	Cu	2	Ci	8	2	1012·8	-1	SSW	3	bc	48	85	7	2500	StCu	2	ACu	7	·
Shoeburyness	1014·8	-1	SW'S	3	bct	53	85	8	-	-	0	CiSt	4	·	1012·6	-2	SSW	1	bc	48	97	7	-	-	0	ASt	3	·
Clacton-on-Sea	·	·	·	·	·	·	·	·	·	·	·	·	·	·	1012·8	-1	SSW	4	bc	51	85	7	4000	StCu	4	-	4	2
Felixstowe	1014·6	-2	SSW	3	c	57	85	7	-	-	0	CiSt	8	2	1011·9	-3	SSW	4	bc	51	85	6	-	-	0	Ci	5	2
Lympne	1015·7	-2	SW	3	bc	54	75	8	2500	StCu	4	Ci	7	1	1013·8	-2	SW	3	b-	48	92	8	5700	StCu	1	ACu	2	·
Scilly (St. Mary's)	1013·2	-4	SSW	5	ct	54	75	7	4000	StCu	6	ACu	8	·	1006·8	-9	SSW	7	orr	51	97	6	2500	Nb	10	-	10	7
Falmouth (Pendennis)	1013·4	-3	SW	5	bc	53	75	8	4000	Cu	4	CiCu	6	·	1007·[illegible]	-5	SW	5	cr-	53	85	7	~~4000~~ 2500	Nb	7	ASt	10	2
Plymouth (Cattewater)	1013·9	-4	SW	5	c	53	75	8	2500	Cu	7	ACu	9	2	1009·7	-3	SW	6	cr	53	85	7	800	Nb	9	ASt	10	4
Portland Bill	1014·2	-2	SW	5	bc	54	75	8	1500	St	4	Ci	7	·	1010·0	-4	SW	6	oro	54	75	8	2500	Nb	10	-	10	6
Southampton (Calshot)	1014·9	-3	WSW	4	bct	53	75	8	2500	Cu	4	Ci	6	1	1012·3	-4	SW	4	c/r	49	97	8	1500	Nb	4	ASt	9	0
Dungeness	1015·9	-1	WSW	2	bc-	55	75	8	2500	StCu	3	CiCu	5	·	1015·5	-4	SW	4	c	54	75	8	2500	CuNb	8	-	8	4
Guernsey (Fort George)	1017·3	-2	WSW	4	bc	54	75	9	2500	Cu	2	ACu	4	·	1014·3	-4	WSW	5	c/r	53	65	9	1500	CuNb	4	ASt	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.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 13h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bbc	cbmo	bcrocq	53	49	43	Tr	7	5·7	·	·	6
Croydon	244	bbcm	cbc	bccirdd	54	46	42	-	5	4·3	·	·	6
Greenwich (Royal Obsy.)	149	bc	c	cirry	55	49	38	-	5	5·7	68	93	7
City (Bunhill Row)	80	·	·	·	·	·	·	·	·	3·6	·	·	·
Westminster (St. James' Pk.)	37	·	·	·	55	47	44	5		5·7	74	85	·
Regent's Pk. (Botanic Gdns).	128	·	·	·	·	·	·	·	·	4·9	·	·	·
Camden Square	110	b	bc	·	54	46	·	-	6	·	·	89	·
Kensington Palace	88	bc	bc	·	56	49	43	-	6	·	(At 18h) 79	86	·
Hampstead Observatory	450	·	·	·	53	45	41	1	5	5·3	·	74	·

24 HOURS ENDED 9h.

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
Defective record.			

Kew Observatory

Max.	Time.	Min.	Time.
0·3	14th 8h	<0·1	15th 2h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 14th 17 h. 15 m. to 15th 6 h. 15 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13. 0	1. 36	12
δ Ursae Minoris	13. 0	1. 17	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 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.

15th & 16th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·17 7·19	11·38 11·38	15.58 15.56
Greenwich	7.20 7·21	11.45 11·45	16·9 16·8
Wick	8·3 8·6	11.57 11.57	15.50 15.48
Valentia	8·2 8.4	12.26 12.26	16.48 16.47

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.
lp 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.

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.

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

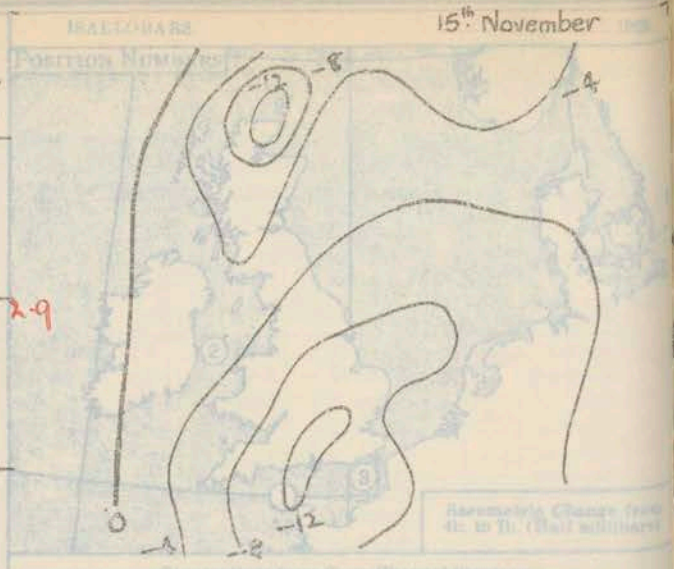
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	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.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† Tr. = 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. 14th	13h.-18h. 14th	18h. 14th to 1h. 15th	1h.-7h. 15th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL. Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 14th Hours.
Lerwick	cpr, bc	bc	bc	bcc	49	42	•	Tr	18.00	-	-	4.5
Stornoway	c	b pr b	r-d	p	48	41	•	0.2	15.30	3	21.00	3.5
Wick	b-bc	b bc	b-bc	orrr,	46	41	•	-	-	4	1.30	•
Tiree	pr bc	bcc	cqpor	prc	50	44	42	0.3	18.00	3	21.00	3.7
Nairn	bc	bcbR	b bc PR	cpr bc	46	36	•	-	-	2	21.00	5.0
Aberdeen	b	b bz,	bbcorm,	orrrcm,	48	40	33	-	-	5	22.00	5.8
Malin Head	bcp, bc	bccorm	orrrcbcir	bccir	46	45	•	8	18.00	4	21.00	3.3
Renfrew	cp, cbc	bcod,	orrm,	or, c cm,	48	42	41	Tr	9.00	12	21.00	3.6
Edinburgh (Inchkeith)	b-bc	b-bc	bcir, ir	cbcb	47	43	40	-	-	1	21.00	6.4
Leuchars	bc, pr,	b-bc	bcw, cpr	cr, cir,	47	39	33	Tr	12.30	6	21.00	4.1
Eskdalemuir	bc	bcc or,	orr	cir	45	41	41	0.2	16.30	14	21.00	4.0
Tynemouth	cir, bc	bcoir,	oirq	oir,	49	46	48	0.1	18.00	0.4	21.00	•
Blacksod Point	cr	rr	Rqr	ro	50	48	•	6	•	6	•	•
Donaghadee	bc	cir,	cir, c	c	50	48	•	0.6	14.30	6	21.00	•
Birr Castle	cid,	coir	oir	ocirc	51	47	40	2	12.30	3	21.00	0.0
Holyhead	c	pr, r	rrRRqo	r, RRc	53	49	47	2	18.00	25	21.00	0.8
Liverpool (Bidston)	cp bcc	corc	cp	pcr	51	46	44	1	9.00	2	21.00	3.5
Chester (Sealand)	cprbcbq	irc	cr, r	br r,	52	47	45	1	9.00	3	21.00	1.6
Harrogate	b bo cp	bccbir,	b bccir	cir	47	45	42	2	11.00	3	21.00	1.2
Spurn Head	bc	bc	oprqo	or cpr	56	47	•	-	-	2	22.00	4.7
Birmingham (Edgbaston)	bc	c	coir,	oir	51	46	44	-	-	4	21.00	4.2
Orpington	c	c	r-d	orrir	52	45	43	-	-	1	21.00	4.5
Coriston	bc	bc	bobrrq	or, rq	54	46	43	-	-	2	24.00	6.1
Valentia (Cahirciveen)	cr	crrc	cid,	cp	56	49	47	15	18.00	1	21.00	0.0
Roches Point	c	crcRrc	coiR	oir bcb	55	44	•	13	13.30	7	21.00	•
Pembroke (St. Ann's H.)	cbcPq	cPRqrc	oiRqm	cqiR	54	53	•	5	12.30	6	24.00	1.5
Ross-on-Wye	bbc	c	r, qdq	por	53	47	45	-	-	4	21.00	4.1
Leafield	fbp, bc	bcc	oir	oir	51	44	43	0.1	9.00	6	21.00	5.4
Winchester (Worthy Dn.)	bfbcm,	bc	cr, crr	crrcRq	55	47	44	-	-	13	21.00	4.9
S. Farnborough	bbc	bcq	bccir	orrqocrq	55	46	46	Tr	17.30	9	21.00	5.6
London (Kew Obsy.)	bbc	cbm,	crqr,	crqccq	53	49	43	Tr	-	7	21.00	5.7
Croydon	bbcm,	cbc	bccir, dq	odr, dd	54	46	42	-	-	5	21.00	4.3
Shoeburyness	bm, bc	bc	bccr,	oirq	55	46	44	-	-	3	21.00	5.0
Clacton-on-Sea	bc	bc	bcc	corro	52	47	41	-	-	4	22.00	5.4
Felixstowe	bz, bc	cz, bc	bcz, b	bcr	57	49	47	-	-	2	3.30	5.5
Lympne	bm, bc	bc	cprcq	corrq	54	46	44	-	-	9	21.00	6.4
Scilly (St. Mary's)	bc	copr	orrc	cprlc	55	50	•	2	13.30	10	21.00	3.7
Falmouth (Pendennis)	bc	bcr, q	orrq	orrq	55	50	•	Tr	15.30	7	21.00	4.5
Plymouth (Cattewater)	crq, b	cqr	coqrr	orRqmc	56	51	50	0.3	16.30	8	21.00	3.9
Portland Bill	cbc	bcqpcor	or, bcrrq	orrorq	55	52	•	1	15.30	10	21.00	•
Southampton (Calshot)	bc	bc, pP	cirqr,	or, RRm	54	50	48	1	16.30	13	21.00	4.0
Dungeness	bbc	bcc	cprvq	coqrrqr	56	51	•	-	-	11	22.00	•
Guernsey	bcrv	bccPRqw	cprq,	bccPRorRq	55	52	•	3	11.00	8	21.00	5.8



Observations from Cross Channel Steamers.

Position	Date and Time	Steamship	Wind. Direc.	Wind. Force.	Weather	Temp. Air	Temp. Sea	
2	14th 10h	Cambria	SWl	4	c	49	55	8
3	15th 2h	Dieppe	SW	6	bct	53	56	7

GENERAL INFERENCE.

A deep depression to the west of Scotland together with a vigorous secondary over Northern England will move eastwards. Mild and unsettled weather will be general with winds reaching gale force at times in southern and eastern districts. Bright periods will occur in the West.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 15th November, 1928.

Districts.	Forecast	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Southerly to southwesterly winds, gale locally at first; squally; some rain; mild.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Southwesterly to westerly winds, moderate to strong, stronger locally at times in exposed places; occasional rain, a few bright periods; mild.	South Cone hoisted yesterday at 11h.10m. in districts 17 and 20. At 13h. 45m.G.M.T. in districts 1,5, 6,7,8,12,13A,18 and 19. At 18h.40 m. in districts 2,10,11, 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) NW. Scotland 14. Mid-Scotland	Winds variable in direction at first but mainly south-easterly, becoming southwesterly, strong at times; some rain or drizzle; rather mild to moderate temperature.	
15. N.E. Scotland 16. Orkneys and Shetlands	Southeasterly to southerly winds, approaching gale at times; some rain; rather high to moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Winds mainly southwesterly to westerly, moderate to strong; cloudy, occasional rain; moderate temperature.	

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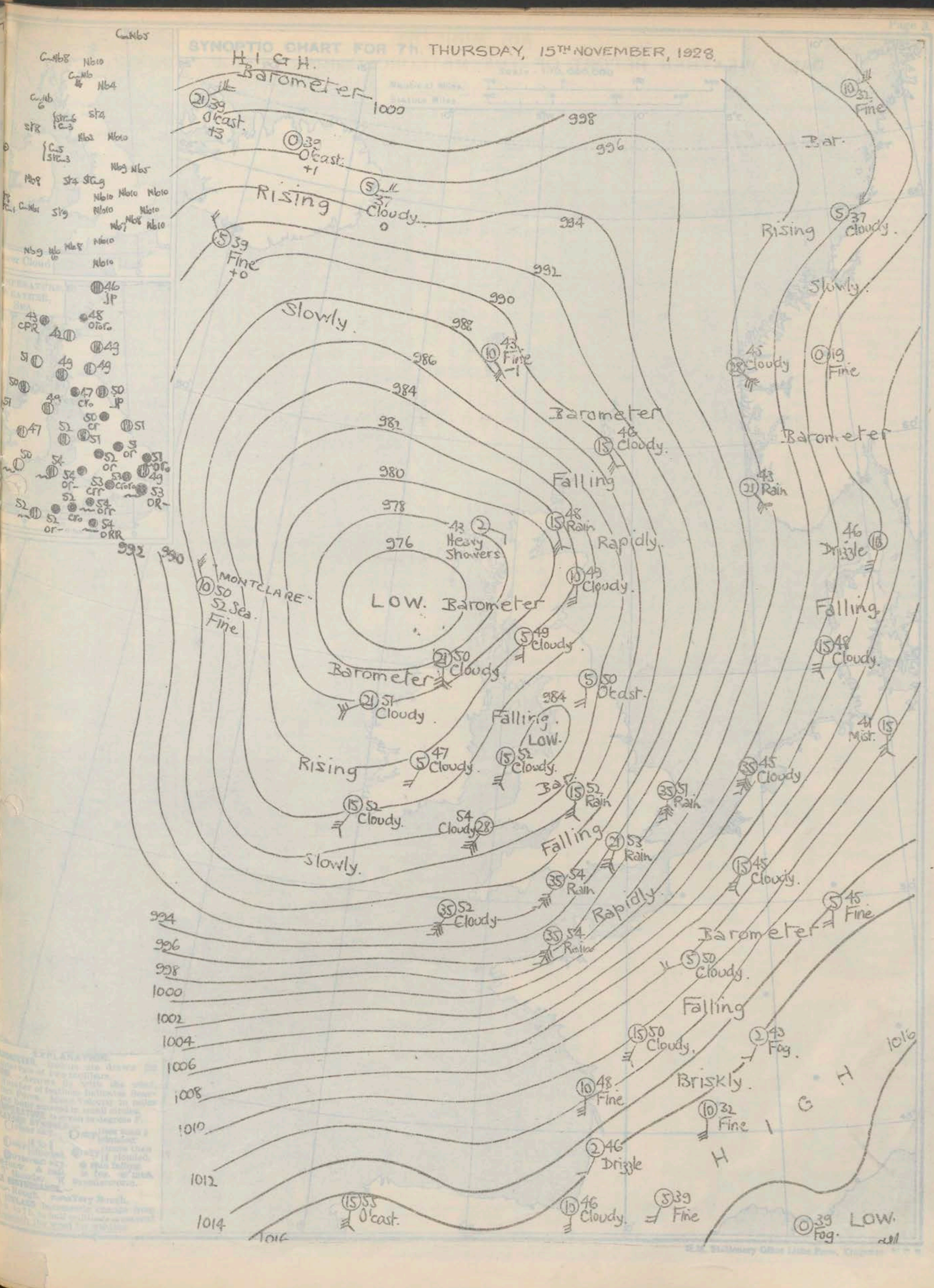


AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION......Thursday, 15th November.....1928. No. 320.

STATIONS.	Height above M.S.L. in feet.	1h. Barom. at M.S.L. mb.	1h. Change in 3 Hours	1h. Wind Direc.	1h. Wind Force 0-12	1h. Weather	1h. Temp. °F.	1h. Humidity %	1h. Visibility 0-9	1h. Low Cloud Height Feet	1h. Low Cloud Form	1h. Low Cloud Amt. 0-10	1h. Upper Form	1h. 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 0-9	7h. Low Cloud Height Feet	7h. Low Cloud Form	7h. Low Cloud Amt. 0-10	7h. Upper Form	7h. Total Amt. 0-10	
Lerwick	84	993.5	-7	SE	2	bc	46	75	8	1500	Cu	4	–	4	988.1	-10	SE	4	cjp	46	75	7	1500	CuNb	5	ASt	10	·
Stornoway	30	989.0	-8	S	4	orr	·	·	6	·	·	·	·	10	978.6	-5	E	1	c/PR	48	92	7	4000	CuNb	8	–	8	1
Wick	81	990.7	-7	SSW	5	bc	46	85	8	~~StCu~~	StCu	5	CiSt	7	980.5	-14	SSE	4	orc	48	97	8	1500	Nb	10	–	10	3
Tiree	32	·	·	·	·	·	·	·	·	·	·	·	·	·	977.5	-2	S	5	bc-	51	97	7	1500	CuNb	6	–	6	4
Nairn	23	·	·	·	·	·	·	·	·	·	·	·	·	·	979.2	·	–	0	bc/r	42	85	8	2500	CuNb	4	ACu	7	·
Aberdeen	37	·	·	·	·	·	·	·	·	·	·	·	·	·	982.1	-3	S	3	c-	49	92	6	800	Nb	4	ACu	8	0
Malin Head	51	982.0	-2	S	4	bcr	51	97	7	5700	Nb	4	–	4	977.5	-3	S	5	c/r	50	92	7	1500	St	8	ASt	10	3
Renfrew	36	·	·	·	·	·	·	·	·	·	·	·	·	·	982.1	-4	S	2	c	49	92	6	2500	StCu	8	–	9	·
Edinburgh (Inchkeith)	180	986.5	-12	SE	3	c	47	85	8	1500	St	5	ASt	9	981.7	-2	S	2	bc	49	92	8	1500	St	4	ACu	6	0
Leuchars	36	·	·	·	·	·	·	·	·	·	·	·	·	·	981.7	-3	SW	2	bc/r	44	92	7	2500	StCu	5	Ci	5	·
Eskdalemuir	794	·	·	·	·	·	·	·	·	·	·	·	·	·	982.2	-5	S'E	4	cr	47	92	7	1500	Nb	3	ASt	10	·
Tynemouth	67	991.3	-13	S	5	or	47	92	7	1500	Nb	10	–	10	984.9	-5	S	3	qjp	50	97	6	800	Nb	10	–	10	2
Blacksod Point	18	981.9	-3	SW	5	oR	52	92	6	·	Nb	10	–	10	980.8	+1	WSW	5	c	51	92	6	·	–	0	ASt	10	7
Donaghadee	40	·	·	·	·	·	·	·	·	·	·	·	·	·	982.3	-3	WSW	2	c-	49	92	7	2500	Cu	8	–	8	2
Birr Castle	173	·	·	·	·	·	·	·	·	·	·	·	·	·	981.9	·	SW	2	c-	47	92	7	1500	Nb	8	–	8	·
Holyhead	26	990.6	-5	SSW	5	cr	52	85	6	2500	Nb	9	–	9	984.7	-3	SW'S	4	c	52	92	6	5700	St	4	ASt	9	3
Liverpool (Bidston)	189	·	·	·	·	·	·	·	·	·	·	·	·	·	984.0	-7	SSW	4	c-	51	85	8	2500	StCu	9	CiSt	9	·
Chester (Sealand)	16	·	·	·	·	·	·	·	·	·	·	·	·	·	984.6	-7	SW'S	4	c/r	53	85	8	2500	St	8	Ci	9	·
Harrogate	476	·	·	·	·	·	·	·	·	·	·	·	·	·	985.5	-8	S	4	cr	50	92	6	2500	Nb	9	ASt	10	·
Spurn Head	25	997.2	-11	S	7	o	48	92	7	4000	Nb	10	–	10	988.1	-8	S	6	c	51	97	7	4000	Nb	5	ASt	10	4
Birmingham (Edgbaston)	535	·	·	·	·	·	·	·	·	·	·	·	·	·	988.0	-9	S	4	or	52	92	8	800	Nb	10	–	10	·
Cranwell	236	998.8	-11	S	6	orr	48	97	6	1500	Nb	10	–	10	989.8	-9	SSE	5	or	51	97	8	1500	Nb	10	–	10	·
Gorleston	14	1004.6	-7	S'W	6	orr	50	97	6	800	Nb	10	–	10	995.0	-9	S	7	or	51	92	6	1500	Nb	10	–	10	4
Valentia (Cahirciveen) ₱	30	987.6	-3	SW	6	or	52	92	8	*	St	10	–	10	984.7	+1	SWW	4	c	52	85	8	1500	St	9	–	9	4
Roches Point	22	·	·	·	·	·	·	·	·	·	·	·	·	·	~~[struck out]~~ 987.9	-3	W	3	b	50	92	8	1500	CuNb	1	–	1	6
Pembroke (St. Ann's H.)	180	992.5	-6	SW	7	cR	55	92	6	450	StCu	10	–	10	985.9	-6	SW'W	6	c/r	54	85	6	1500	St	9	ASt	10	6
Ross-on-Wye	222	·	·	·	·	·	·	·	·	·	·	·	·	·	987.7	-10	SSW	4	or-	54	85	7	1500	Nb	10	–	10	·
Leafield	613	·	·	·	·	·	·	·	·	·	·	·	·	·	989.1	-10	S'W	6	or	52	97	8	1500	Nb	10	–	10	·
Winchester (Worthy Dn.)	272	·	·	·	·	·	·	·	·	·	·	·	·	·	993.1	-13	S'W	7	cr	52	85	8	1500	CuNb	6	Ci	9	·
S. Farnborough	237	·	·	·	·	·	·	·	·	·	·	·	·	·	991.9	-13	S	8	crr	53	85	7	450	Nb	7	ASt	9	·
London (Kew Obsy.)	18	·	·	·	·	·	51	·	·	·	·	·	·	·	994.0	-12	SW'S	5	crr	53	92	6	800	Nb	8	ASt	10	·
Croydon	244	1004.5	-7	SW'S	5	odd	50	92	6	800	Nb	10	–	10	995.5	-8	SW	6	odd	52	92	6	450	Nb	10	–	10	·
Shoeburyness	11	·	·	·	·	·	·	·	·	·	·	·	·	·	995.9	-11	SW'S	6	o	51	97	8	220	St	10	–	10	·
Clacton-on-Sea	54	·	·	·	·	·	·	·	·	·	·	·	·	·	996.7	-6	S	7	o	49	92	7	4000	Nb	10	–	10	3
Felixstowe	15	·	·	·	·	·	·	·	·	·	·	·	·	·	997.4	-7	SSW	6	c/r	51	85	7	800	St	9	ASt	10	6
Lympne	350	1007.0	-7	SW'S	6	c	50	85	8	1500	StCu	7	CiSt	10	998.0	-12	SSW	6	o/r	50	97	6	220	St	10	–	10	·
Scilly (St. Mary's)	163	999.0	-7	SW'S	7	crr	54	97	6	4000	Nb	9	–	9	992.8	-5	SWW	7	c	52	97	6	2500	Nb	9	–	9	7
Falmouth (Pendennis)	209	999.9	-7	SW	7	orr	54	97	7	2500	Nb	10	–	10	990.1	-8	WSW	6	cr-	52	85	7	2500	Nb	10	–	10	4
Plymouth (Cattewater)	88	·	·	·	·	·	·	·	·	·	·	·	·	·	990.9	-7	WSW	7	cr	52	85	7	1500	Nb	8	ASt	9	5
Portland Bill	52	1001.0	-9	SSW	8	orr	55	92	6	2500	Nb	10	–	10	991.9	-9	SW	7	orr	54	85	6	1500	Nb	10	–	10	8
Southampton (Calshot)	10	1004.4	-8	SW	7	or	53	85	6	1500	Nb	10	–	10	995.8	-9	SSW	7	oRR	53	92	6	800	Nb	10	–	10	5
Dungeness	20	1005.7	-9	SW	7	cr	53	85	9	2500	Cu	8	–	8	996.6	-3	SSW	8	oR	53	92	8	1500	Nb	10	–	10	·
Guernsey (Fort George) ₱	295	1005.6	-5	SSW	5	or	53	85	7	4000	StCu	10	–	10	995.8	-11	SSW	7	oRR	54	97	5	450	Nb	10	–	10	8

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

STATIONS. (1)	Weather Fore-noon. (2)	Weather After-noon. (3)	Temperature Min. 9h. 13th to 9h. 14th °F. (4)	Temperature Max. 9h.-17h. 14th °F. (5)	Rainfall Night 17h.-9h. 13th-14th mm. (6)	Rainfall Day 9h.-17h. 14th mm. (7)	Sunshine Sunrise to Sunset 14th hr. (8)
Berwick-on-Tweed	bc	bc	41	48	–	–	5·2
Douglas (I. o. M.)	bc	cd	44	53	–	Trace	2·8
Llandudno	cpc	pc	46	53	2	1	1·3
Colwyn Bay	bbcbc	cpc	45	52	2	1	1·1
Rhyl	bc	bcp	40	54	1	1	2·6
Wallasey	pbcb	coRc	42	54	0·3	2	2·3
Southport	rco	oroco	41	51	0·6	2	1·0
Blackpool	or	opc	43	52	6	5	1·4
Ilkley	bcor	o	41	49	–	1	0·1
Cleethorpes	bo	bc	41	52	–	–	4·1
Skegness	cbbc	bco	41	51	–	–	4·2
Aberystwyth	prc	pr	46	52	2	1	0·0
Bath	b	b'bccb	37	55	–	–	5·9
Cheltenham‡	bw	bbcc	43	54	–	–	5·7
Leamington Spa	c	c	38	54	–	–	3·9
Lowestoft	b	b	44	54	1	–	5·5
Harwich & Dovercourt	rbbc	bc	44	53	1	–	5·3
Malden	b	bbc	40	54	1	–	4·1
Southend	bbc	cbc	44	57	1	–	5·5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	bcp	bcor	44	53	3	0·3	4·0
Penzance	bc	cbcpr	45	57	1	0·1	4·1
Paignton	rbc	bccarp	39	57	0·3	Trace	4·5
Torquay	pbw	bccporp	43	56	Trace	Trace	4·5
Jersey	rbc	bc	49	55	7	–	6·5
Weymouth	b	bcpc	47	58	0·6	0·2	4·1
Bournemouth	bcb	bcco	41	56	0·5	–	3·9
Ventnor	rbc	bcor	46	56	2	0·5	4·8
Portsmouth (S'thsea)	bbc	bbc	43	56	1	–	4·1
Bognor	cbc	bcc	45	56	2	–	4·9
Littlehampton	bcmbc	bcc	40	55	2	–	4·0
Worthing	bc	bcc	43	54	2	–	4·6
Brighton	bcc	cocd	44	55	6	Trace	4·6
Eastbourne	bcccp	cbcc	43	55	6	1	6·1
Hastings‖	mbcc	bcc	44	57	6	–	5·8
Folkestone	bcmbc	bcc	44	56	5	–	4·5
Dover	bc	bcc	46	55	5	–	6·6
Tunbridge Wells	bbcb	bbc	42	55	3	–	5·5
Ramsgate	bcb	bbc	44	55	6	–	6·4
Margate	bc	bc	43	56	6	–	5·7
Deal	b	bbc	44	55	5	–	6·2

TERMS OF SUBSCRIPTION.—5/6 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. and at Guernsey, the sunshine readings are 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. ✠ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24466 Friday 16th November 1928.

Observations at 13h. G.M.T. 15th / Observations at 18h. G.M.T. 15th

STATIONS. (For heights see p. 4).	13h Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.	18h Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-9
Lerwick	972.9	+5	SE	3	orr	50	97	6	1500	Nb.	10	-	10	*	978.0	-2	SE	3	or	49	97	6	1500	Nb.	10	-	10	*
Stornoway	977.3	-1	–	0	odd$_o$	45	97	6	2500	Nb.	10	-	10	*	977.2	-2	NNW	3	o/r	46	85	6	2500	Nb.	10	-	10	2
Wick	978.9	0	SSW	2	c	51	92	8	2500	St.Cu.	6	Ci.St.	8	*	977.1	-2	SSW	2	bc	49	97	8	2500	St.Cu.	4	A.St.	6	1
Tiree	976.5	0	NW	6	orr	47	97	6	2000	Nb.	10	-	10	2	981.0	+4	NW	6	or	48	92	7	1500	Nb.	10	-	10	4
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	975.9	*	–	0	cr	42	92	7	2500	Cu.Nb.	8	-	8	*
Aberdeen	979.6	-3	S	2	c	50	92	7	1500	St.	4	A.Cu.	9	1	977.6	-2	S	1	cr	48	97	6	1500	St.Cu.	9	-	9	0
Malin Head	981.1	+6	NW	6	cd$_o$	48	92	7	4000	Cu.Nb.	9	-	9	*	984.9	+5	WNW	6	bc/p$_o$	49	85	8	4000	Cu.Nb.	3	-	3	6
Renfrew	979.6	-3	SSW	3	c	53	85	6	1500	St.Cu.	10	-	10	2	979.9	+2	WNW	2	c	48	85	7	2500	St.Cu.	5	A.Cu.	8	*
Edinburgh (Inchkeith)	979.4	-3	SW	1	c	51	85	8	1500	St.	6	A.St.	8	*	977.4	-2	SW	4	or	47	92	8	800	Nb.	10	-	10	2
Leuchars	979.1	-3	SW	2	bc-	54	75	7	5700	St.Cu.	4	A.Cu.	5	2	976.8	-3	SSE	1	od$_o$	48	97	7	1500	St.	10	-	10	*
Eskdalemuir	979.8	-2	SSW	5	cr$_o$	48	92	7	1500	St.	9	-	9	2	980.2	+3	W'S	4	cd/d$_o$	45	85	7	1500	St.	9	-	9	*
Tynemouth	981.4	-1	SW	2	c/r	55	75	6	800	Nb.	8	-	8	*	980.4	-1	W	3	q/p	52	85	6	800	Nb.	10	-	10	1
Blacksod Point	987.5	+5	NW	5	bc	50	75	8	*	Cu.Nb.	6	-	6	*	989.5	+1	NW	4	bc	47	97	7	*	Cu.Nb.	7	-	7	5
Donaghadee	981.5	+2	W	3	c-	51	85	8	4000	St.Cu.	8	-	8	*	985.3	+5	WSW	4	c	47	75	8	2500	St.Cu.	8	-	8	3
Birr Castle	987.0	*	W	3	c/r	52	85	7	1500	Cu.	9	-	9	*	990.1	*	W	2	c	47	85	6	800	St.	9	-	9	*
Holyhead	985.3	+2	SW'W	5	cd$_o$	52	85	6	1500	Nb.	9	-	9	1	988.9	+5	W	6	bc-	51	85	7	4000	St.Cu.	7	-	7	5
Liverpool (Bidston)	982.5	0	W'N	3	b/PR	51	85	8	1500	Cu.Nb.	1	A.Cu.	7	*	986.1	+4	W'N	6	c+	50	75	7	2500	Cu.Nb.	8	-	8	*
Chester (Sealand)	984.0	0	WSW	3	c	57	75	8	1500	St.	9	-	9	2	986.9	+1	W'N	5	c	51	65	7	2500	St.	10	-	10	*
Harrogate	983.3	0	SW'S	3	c/r	52	75	6	2500	Nb.	9	-	9	*	983.5	0	SW	4	b	48	85	7	4000	Nb.	2	-	2	*
Spurn Head	983.5	-2	SW'S	3	c-	52	92	7	4000	Nb.	4	A.Cu.	8	*	983.7	0	SW'W	4	c	50	92	7	4000	Nb.	4	A.St.	8	3
Birmingham (Edgbaston)	986.1	-1	SW	3	bcr$_o$	52	85	6	2500	Nb.	7	-	7	2	988.8	+3	W	3	cr$_o$	50	85	8	2500	Nb.	9	-	9	*
Cranwell	985.5	-2	SW	4	bc-	55	85	7	1500	Cu.	5	A.Cu.	6	1	986.3	+2	SW'W	3	bc	50	85	6	2500	St.Cu.	7	-	7	*
Gorleston	987.3	-7	SW	7	or$_o$	53	97	6	800	Nb.	10	-	10	*	987.4	+1	SW	3	bc-	51	92	7	-	-	0	A.St.	4	1
Valentia (Cahirciveen)	991.8	+4	WNW	4	bc	52	85	8	1500	St.Cu.	2	A.Cu.	5	2	992.8	+1	SW	2	cr-	49	92	7	1500	St.	10	-	10	5
Roches Point	990.4	+3	NW	4	bcr	52	85	9	1500	Cu.Nb.	4	-	4	*	993.4	+3	W	3	c	50	85	8	2500	St.Cu.	9	-	9	4
Pembroke (St. Ann's H.)	987.8	+2	W	4	c/p	54	85	6	800	St.Cu.	10	-	10	*	990.6	+5	W	3	cr	53	65	7	1500	Cu.	7	Ci.Cu.	9	4
Ross-on-Wye	986.8	0	WSW	3	bc-	53	85	7	4000	Cu.	6	-	6	2	990.0	+3	W'S	3	bc-	51	75	8	4000	Cu.	7	-	7	*
Leafield	987.6	0	SW	4	c/pr$_o$	51	85	8	2500	Cu.Nb.	9	-	9	2	989.5	+2	WSW	4	c/r	49	92	7	2500	Cu.Nb.	8	-	8	*
Winchester (Worthy Dn.)	989.7	-2	SSW	3	c	55	75	8	2500	St.Cu.	8	-	8	2	992.5	+3	SSW	3	c	51	85	8	2500	St.Cu.	8	-	8	*
S. Farnborough	989.2	-2	SW	4	cr$_o$	54	85	7	800	St.	7	Ci.	8	2	991.1	+3	W	3	bc-	50	85	9	4000	St.Cu.	3	-	3	*
London (Kew Obsy.)	988.6	-3	SW	3	c	55	85	6	1500	Cu.	1	A.Cu.	9	2	990.7	+2	WSW	3	b	51	85	6	1500	St.Cu.	2	-	2	*
Croydon	989.6	-3	SW'W	4	c-	53	85	7	800	St.Cu.	4	A.St.	9	2	990.9	+3	WSW	4	b-	51	85	7	2500	St.Cu.	1	-	1	*
Shoeburyness	988.5	-7	SW	5	cr$_o$	54	97	8	800	St.Cu.	7	A.St.	10	*	990.0	+1	SW	4	b	51	97	8	-	-	0	A.Cu.	2	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	989.4	+2	S	4	bc	51	92	6	4000	St.Cu.	4	-	4	2
Felixstowe	988.7	-8	SSW	6	cr$_o$	53	92	7	800	Nb.	8	A.St.	10	2	999.2	+2	SW'S	4	c	52	85	7	1500	St.Cu.	10	-	10	3
Lympne	990.3	-3	SW	5	cr$_o$r$_o$	51	97	6	4050	St.	9	A.St.	10	2	991.6	+2	W'S	4	b	48	92	7	-	-	0	A.Cu.	1	*
Scilly (St. Mary's)	992.3	+1	W	7	c	53	92	7	4000	Cu.Nb.	9	-	9	*	997.3	+2	W'S	5	c	51	97	7	4000	St.Cu.	10	-	10	6
Falmouth (Pendennis)	991.3	-1	W	5	c/PR	54	92	6	4000	Cu.Nb.	6	A.Cu.	8	*	995.1	+4	WNW	4	c	52	85	8	4000	St.Cu.	5	Ci.St.	10	1
Plymouth (Cattewater)	990.4	0	WSW	5	c/r	53	97	7	1500	Nb.	9	-	9	2	994.9	+4	W	5	c-	52	85	7	1500	Nb.	9	-	9	4
Portland Bill	989.1	-1	WSW	6	bc-	56	85	6	1500	St.	2	A.Cu.	3	*	991.9	+5	WSW	6	c-	55	92	8	1500	St.	6	A.St.	9	7
Southampton (Calshot)	989.7	-2	SW'W	4	bc/r	54	85	7	800	Nb.	5	A.Cu.	6	2	992.2	+3	W	4	bc+	52	85	8	4000	Cu.	4	A.Cu.	7	0
Dungeness	990.0	-3	WSW	6	c/r	54	85	7	800	St.	6	Ci.St.	10	*	991.5	+2	WSW	4	bc-	53	85	8	4000	St.Cu.	4	-	4	5
Guernsey (Fort George)	993.2	0	W'S	7	cr	55	85	7	800	Nb.	7	A.St.	9	*	996.6	+5	W	7	or$_o$	53	85	6	800	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 (24 Hours ended 9h.) Morning	Afternoon	Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	crq	cbcb	bcbcrq	56	45	39	0.5	Tr.	0.2	*	*	5
Croydon	244	ocwrq	cbcprq	bbcc	55	44	40	5	-	0.2	*	*	5
Greenwich (Royal Obsy.)	149	crc	cb	bcrr	56	44	38	1	3	0.4	81	98	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.1	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	57	47	40	3		0.3	80	90	*
Regent's Pk. (Botanic Gdns).	166	*	*	*	*	*	*	*	*	0.4	*	*	*
Camden Square	110	crc	cob	*	54	47	-	0.5	3	*	*	96	*
Kensington Palace	80	oroc	bc	*	55	46	38	0.6	3	*	(At 18h) 79	99	*
Hampstead Observatory	450	*	*	*	53	43	35	0.5	3	0.5		99	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.6	18h.15th	<0.3	4h.16th

Kew Observatory Max.	Time.	Min.	Time.
0.1	13h.15th	<0.1	1h.16th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 15th 17 h. 15 m. to 16th 6 h. 15 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.00	9.60	76
δ Ursae Minoris	13.00	8.19	64

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.

16th & 17th November 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.19 / 7.20	11.38 / 11.38	15.56 / 15.55
Greenwich	7.21 / 7.23	11.45 / 11.45	16.8 / 16.6
Wick	8.6 / 8.8	11.57 / 11.57	15.48 / 15.46
Valentia	8.4 / 8.6	12.26 / 12.26	16.47 / 16.46

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:—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.

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.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

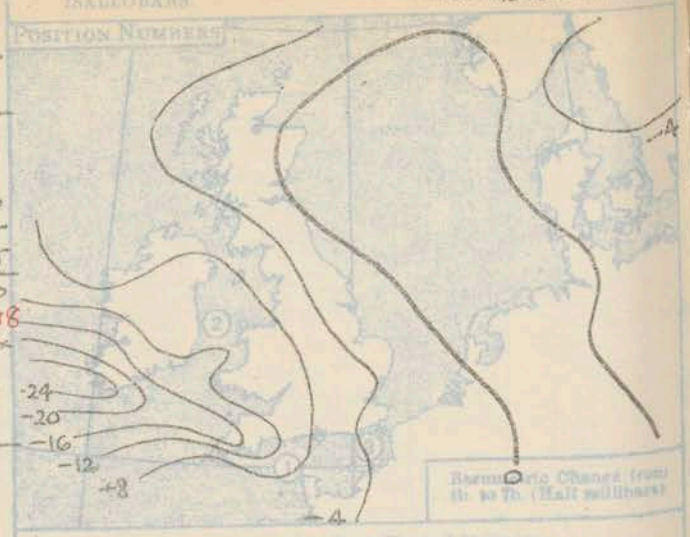
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 15	13h.-18h. 15	18h. 15 to 1h. 16	1h.-7h. 16	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 15 Hours.
Lerwick	corrm₀	o₀ir	oirm₀	o₀i₀r₀	50	46	•	12	18·00	3	21·00	0·0
Stornoway	r-d	r-d	b-bc	b-bc	46	38	•	7	18·00	-	-	0·0
Wick	c	b-bc	b-bc	b-bc	52	40	•	0·5	18·00	-	-	•
Tiree	c₀i₀r₀	opr	prbc	prbc	52	39	30	8	18·00	3	21·00	0·0
Nairn	bc	bcac	cPRbc	cbc	46	41	•	Tr.	16·30	2	21·00	4·5
Aberdeen	cbcc	cbcc	c₀r₀m₀cb	bw	51	40	32	-	-	Tr.	21·00	0·5
Malin Head	cd₀	c₀pi₀	bepi₀bejp	bcc	51	38	•	1	9·00	0·1	21·00	0·0
Renfrew	cp₀m₀	~~2 cldqc~~	cp₀	cpbc	54	39	33	0·2	9·00	0·3	22·00	0·18
Edinburgh (Inchkeith)	bcir₀o	cir₀	ocbc	b-bc	53	43	39	1	9·00	-	-	0·4
Leuchars	bcPRp₀	bcc₀r₀d₀	od₀cP	cbc	55	39	35	1	9·00	1	21·00	1·0
Eskdalemuir	ocpr	odd₀m₀cid	cirbc	bcan	48	36	34	6	18·00	0·2	21·00	0·0
Tynemouth	oi₀r₀c	coir₀	obcq	bcq	56	44	39	0·5	18·00	-	-	•
Blacksod Point ...	pc	pc	pc	pd	51	41	•	1	•	0·4	•	•
Donaghadee	cir₀c	qpr₀c	bcb	bcca	52	37	•	1	18·00	-	-	•
Birr Castle	cir₀	cir₀c	c	orrm₀	52	35	22	1	9·00	6	2·30	0·1
Holyhead	pr₀cbc	cjpc	bcb	bc#m₀	55	44	39	Tr.	18·00	1	6·30	2·2
Liverpool (Bidston) ...	cp₀	p₀cqc	cp₀bq	opm₀	53	40	37	0·5	11·00	0·2	21·00	1·8
Chester (Sealand) ...	cbcpir₀c	bccm₀	cb	bccd₀	57	41	36	0·2	9·00	Tr.	6·30	1·7
Harrogate	cbcir	circb	bbc	bcc	53	40	37	1	18·00	-	-	1·1
Spurn Head	crr	bcc	cbc	bc	54	43	•	4	9·00	-	-	1·9
Birmingham (Edgbaston)	Rbc	bcir₀	cr₀	c	53	41	37	1	18·00	Tr.	21·00	1·4
Cranwell	cir	cp	cd₀bc	b,c	55	39	36	3	18·00	0·3	21·00	1·7
Gorleston	or₀rq	or₀qbc	bc	bcc	57	41	38	1	18·00	-	-	0·0
Valentia (Cahirciveen)	cp₀bc	cr₀cr	codbc	oRRor	53	46	43	1	9·00	18	21·00	1·9
Roches Point	bbcv	bcvpc	cbccr	crr	53	47	•	Tr.	14·30	12	22·00	•
Pembroke (St. Ann's H.)	cbcm₀	bcm₀q	bcP	cmprrr	51	•	•	Tr.	9·00	6	22·00	1·5
Ross-on-Wye	drcdc	c	bbccb	bccor	55	44	38	3	18·00	2	6·30	0·7
Leafield	crp₀	cp₀bcc	cbcb	obcr₀	53	41	37	2	18·00	0·6	6·30	1·1
Winchester (Worthy Dn.)	cr₀rc	cbcc	cbcc	corm₀	56	44	39	4	18·00	2	6·30	1·1
S. Farnborough ...	crrqir₀	cpbc	bcb	bor₀r₀	55	43	33	2	18·00	0·4	4·30	0·6
London (Kew Obsy.) ...	crq	cbcb	bcb	bcr₀m₀	56	45	39	0·5	18·00	Tr.	6·30	0·2
Croydon	oddr₀c	cbcpr₀b	bbcc	c	55	44	40	5	18·00	-	-	0·2
Shoeburyness	oqcir₀	cir₀bc	bbc	bcam₀	55	44	41	0·3	18·00	-	-	0·7
Clacton-on-Sea ...	qpoq	oqcbc	bcco	ocbc	52	46	41	1	9·00	-	-	0·0
Felixstowe	cir₀	cr₀bc	cb	bbc	53	46	44	2	18·00	-	-	0·4
Lympne	or₀r₀rm₀	cr₀r₀cbcb	bcb	bbcc	52	44	40	11	18·00	-	-	0·6
Scilly (St. Mary's) ...	cir	cir	cp₀	cmorrR	54	50	•	3	9·00	7	21·00	0·6
Falmouth (Pendennis)	cprqm₀	cp₀m₀c	cr₀bc	bcoRq	54	52	•	2	18·00	9	21·00	0·8
Plymouth (Cattewater)	cqrm₀d₀	cqrd	coqd₀	or₀rmq	55	51	49	3	18·00	7	21·00	0·8
Portland Bill	cqrbc₀	bcc	cbcpc	cpoarr	58	52	•	1	18·00	4	21·00	•
Southampton (Calshot)	[illegible]	bcpr₀bc	bccbc	bccpcrm	55	48	43	3	18·00	3	5·30	2·1
Dungeness	oRrcq	cqprc	bcb	bbcc	55	51	•	12	18·00	-	-	•
Guernsey	[illegible]	[illegible]	[illegible]	[illegible]	57	52	•	6	18·00	5	21·00	1·0

BALLOBARS — POSITION NUMBERS — 16th November 1928.



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility
2	15th 10h.	CAMBRIA	SW	4	bc⊕	54	55	8
1	" 12h.	ST. HELIER	W	9	PR	57	58	5

GENERAL INFERENCE.

A very deep depression centred over Southwest Ireland will deepen further as it moves rapidly northeastwards across the British Isles. Gales and rain will quickly spread to all districts, the southerly gales being severe in at least Southern England and the English Channel. Another depression is indicated approaching from the Atlantic.

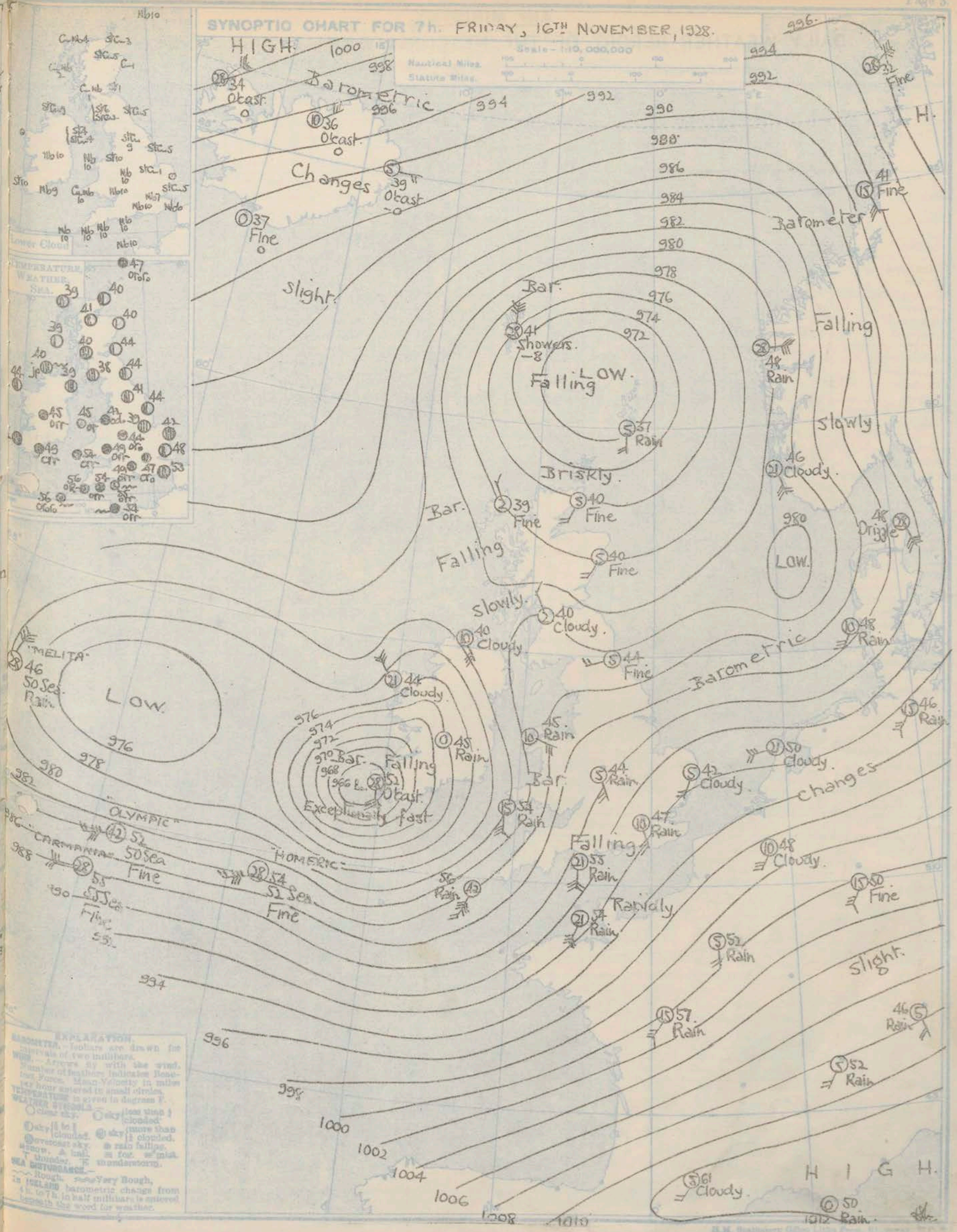
Friday, 16th November, 1928.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	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 ↓	Southerly winds, veering westerly temporarily, strong to gale at times; some rain, then a few bright periods, rainy again later; mild.	Continuing unsettled and mild.
8. N.W. England ↓	As 10 - 16.	↓ South Cone hoisted at 8h. 15m. today in districts 1, 2, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18, 19 and 20.
9. N. Midlands	As 1 - 7.	
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 ↓	Variable winds, mainly southeasterly at first, later southwesterly, moderate, freshening to strong to gale at times; some rain; moderate temperature to rather mild.	
17. N.W. Ireland ↓	Winds variable in direction, strong to gale at times locally; rainy and bright periods; moderate temperature.	
18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	Southwesterly to westerly winds, strong to gale at times, moderating temporarily; rainy and bright periods; mainly mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1000 G.M.T. G. C. Simpson, 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, 16TH NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH.
Barometric
Changes
slight.
Bar.
Falling
LOW.
Briskly.
Falling
slowly.
Barometer
Falling
slowly
Barometric
changes
slight.
Rapidly
Falling
Bar.
Falling
Exceptionally fast
"MELITA"
"OLYMPIC"
"CARMANIA"
"HOMERIC"
LOW.
LOW.
H I G H.
Lower Cloud
TEMPERATURE.
WEATHER.
SEA.
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. A hail. Fog. mist. T thunder. F thunderstorm.
SEA DISTURBANCE.—Rough. Very Rough.
In IRELAND barometric change from 4h. to 7h. in half millibars is entered beneath the word for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Friday 16 November 1928. No. 321.

Observations at 1h. G.M.T. 16th

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	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	64	972·8	-3	SE	1	or	49	97	6	1500	Nb.	10	-	10
Stornoway	30	982·2	+1	N	2	bc-	•	•	8	•	•	•	•	4
Wick	81	976·1	0	WNW	2	c	45	85	8	2500	St.Cu.	5	A.St.	8
Tiree	33	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	987·0	+1	W	5	bcp	47	92	8	4000	CuNb.	3	-	3
Renfrew	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	190	981·2	+5	WSW	5	b	46	85	8	-	-	0	A.Cu.	1
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	87	983·1	+3	WSW	4	bc	47	75	7	1500	Cu.	4	-	4
Blacksod Point	18	989·5	0	-	0	bc	44	85	7	•	CuNb.	6	-	6
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	28	990·8	0	W'S	3	b	48	85	8	2500	Cu.	1	-	1
Liverpool (Bidston)	162	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	987·6	+2	WSW	5	bc-	46	85	6	4000	Nb.	5	-	5
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	236	990·3	+3	WSW	4	b-	44	75	8	4000	St.Cu.	1	-	1
Gorleston	14	990·3	+2	WSW	3	bc+	49	92	7	-	-	0	A.St.	5
Valentia (Cahirciveen)	30	989·6	+4	S	3	oD	48	97	5	4	St.	10	-	10
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	150	991·8	-1	WSW	3	o/p/o	52	85	8	800	St.	10	-	10
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Lealfeld	812	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	18	•	•	•	•	•	49	•	•	•	•	•	•	•
Croydon	244	994·0	+2	W	4	c	49	85	7	4000	St.Cu.	9	-	9
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	994·4	+3	W'S	3	b	45	85	7	-	-	0	A.Cu.	1
Scilly (St. Mary's)	163	995·4	-3	SW	4	c	53	97	7	4000	St.Cu.	10	-	10
Falmouth (Pendennis)	200	993·8	+2	W	4	bc	52	92	8	4000	St.Cu.	4	Ci.St.	7
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	33	993·7	0	WSW	5	c	55	85	8	1500	St.-	7	A.St.	10
Southampton (Calshot)	10	995·0	+1	W'S	2	bc	49	85	8	4000	St.Cu.	2	A.Cu.	3
Dungeness	20	994·7	+3	W	5	b-	51	85	8	-	-	0	Ci.Cu.	2
Guernsey (Fort George)	296	996·[illegible]	-3	SW	3	o/p/o	54	92	6	1500	Nb.	10	-	10

Observations at 7h. G.M.T. 16th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	977·3	-4	S	2	o/o/o	47	92	7	1500	Nb.	10	-	10	•
Stornoway	978·0	-3	NW	1	bc	39	92	7	4000	CuNb.	4	-	4	1
Wick	976·6	-4	SW	2	bc	40	85	8	2500	St.Cu.	2	-	2	1
Tiree	980·0	+3	NW	1	b	39	97	8	1500	CuNb.	2	-	2	2
Nairn	978·2	•	WSW	1	bc	44	85	8	4000	St.Cu.	5	-	5	•
Aberdeen	979·4	+1	SW	2	b	40	85	7	2500	Cu.	1	A.Cu.	1	0
Malin Head	980·5	-7	SSE	3	cr	40	92	8	4000	St.Cu.	9	-	9	2
Renfrew	982·9	-3	NW	1	bc	40	92	6	4000	CuNb.	1	Ci.St.	7	•
Edinburgh (Inchkeith)	980·9	-2	WSW	4	c	44	85	8	1500	St.	1	A.Cu.	2	2
Leuchars	980·7	-1	SW	3	b	40	92	7	4000	St.Cu.	1	A.Cu.	2	•
Eskdalemuir	983·1	-4	S	1	cr	38	92	6	200	St.	8	-	8	•
Tynemouth	983·2	0	WSW	2	bc	44	85	7	3000	St.Cu.	5		5	1
Blacksod Point	977·9	-7	NW	5	c	44	92	7	•	-	0	A.St.	10	6
Donaghadee	983·0	-9	SW	1	cr	39	97	8	2500	St.	8	-	8	1
Birr Castle	972·9	•	NW	2	orr	45	92	6	1500	Nb.	10	-	10	•
Holyhead	983·2	-11	ESE	3	or	45	97	5	800	Nb.	10	-	10	1
Liverpool (Bidston)	983·6	-7	SEE	4	odo	42	85	5	4000	St.	10	-	10	•
Chester (Sealand)	984·6	-9	SEE	3	o/r	43	85	8	4000	St.	5	A St	10	•
Harrogate	985·7	-3	SSW	3	c	44	92	6	4000	St.Cu.	9	-	9	•
Spurn Head	987·3	0	SW'S	4	bcr	44	85	7	5700	St.Cu.	5	A.Cu.	7	2
Birmingham (Edgbaston)	987·2	-7	SSE	3	o/o	45	92	6	1500	Nb.	10	-	10	•
Cranwell	989·0	-2	SEE	2	c	39	92	6	4000	St.Cu.	1	A.Cu.	9	•
Gorleston	991·1	0	SSW	2	c	42	97	7	-	-	0	A.St.	8	0
Valentia (Cahirciveen)	965·8	-26	S	6	o	52	85	7	800	St.	10	-	10	6
Roches Point	973·3	-13	SW	6	crr	49	97	7	1500	Nb.	9	-	9	6
Pembroke (St. Ann's H.)	979·8	-11	S	4	crr	54	97	6	800	CuNb.	10	-	10	4
Ross-on-Wye	986·2	-9	SE	4	orr	49	92	6	2500	Nb.	10	-	10	•
Lealfeld	988·0	-7	SSE	4	orr	44	97	6	800	St.	10	-	10	•
Winchester (Worthy Dn.)	990·6	-6	SSE	3	or	49	97	5	4450	St.	10	-	10	•
S. Farnborough	989·6	-5	S	2	orr	49	97	6	4450	Nb.	10	r	10	•
London (Kew Obsy.)	990·3	-6	SE	3	crb+	47	92	5	1500	Nb.	7	A.St.	10	•
Croydon	991·2	-4	S'W	3	c	47	97	7	1500	St.	7	A.St.	10	•
Shoeburyness	991·7	-4	SW	1	cr	47	97	6	4000	St.Cu.	7	A.St.	8	•
Clacton-on-Sea	991·8	-2	SW	4	bc	48	92	6	4000	St.Cu.	5	-	5	2
Felixstowe	991·7	-2	SSW	3	bc	48	92	7	-	-	0	A.Cu.	7	1
Lympne	992·6	-2	SSW	3	c	49	92	7	2500	St.Cu.	9	-	9	•
Scilly (St. Mary's)	984·8	-7	SW	8	o/o/o	56	97	5	2500	Nb.	10	-	10	7
Falmouth (Pendennis)	984·6	-8	SW	5	or-	56	97	6	2500	Nb.	10	-	10	2
Plymouth (Cattewater)	986·[illegible]	-10	SSW	7	orr	54	97	5	2150	Nb.	10	-	10	5
Portland Bill	982·4	-10	S	5	orr	55	92	6	1500	Nb.	10	-	10	5
Southampton (Calshot)	990·4	-6	S'W	3	orr	52	97	6	1500	Nb.	10	-	10	0
Dungeness	992·7	-3	SW	2	r/p	53	92	7	2500	Nb.	6	A.St.	9	3
Guernsey (Fort George)	991·7	-7	SW	5	orr	54	97	4	4450	Nb.	10	-	10	•

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Thursday 15 Nov.

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 14 to 9h. 15 (4) °F.	Temperature Max. 9h.-17h. 15 (5) °F.	Rainfall Night 17h.-9h. 14-15 (6) mm.	Rainfall Day 9h.-17h. 15 (7) mm.	Sunshine Sunrise to Sunset 15 (8) hr.
Berwick-on-Tweed	cro	rc	42	53	3	0·3	2·9
Douglas (I. o. M.)	cp	cp	44	53	16	0·5	0·6
Llandudno	cpc	cp	49	55	4	0·4	2·1
Colwyn Bay	cbbc	cpco	48	55	6	0·5	1·2
Rhyl	bc	bc	46	55	3	-	1·5
Wallasey	cbcc	cpc	43	56	3	1	1·7
Southport	cbcc	copco	*46	54	12	0·4	1·6
Blackpool	orrc	cp	46	53	19	1	1·0
Ilkley	ob	cpo	42	54	4	0·3	0·7
Cleethorpes	oro	bc	46	54	2	5	1·9
Skegness	rocbc	bcc	45	55	3	2	1·9
Aberystwyth	pcbc	c	46	53	9	-	1·1
Bath	cpo	pcbc	48	56	5	2	1·5
Cheltenham‡	cp	cbcco	50	55	6	0·3	0·4
Leamington Spa	orcb	cod	47	55	13	0·1	2·0
Lowestoft	ccrbc	cbcb	46	53	2	1	0·0
Harwich & Dovercourt	ocroc	ocrboc	47	53	3	2	0·0
Maldon	rcp	cbco	44	55	4	1	0·6
Southend	oct	bcb	47	54	2	0·5	0·9

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ocpbc	bcocp	47	57	3	1	2·2
Penzance	cir	cir	51	55	7	1	1·1
Paignton	Fpqc	orpco	51	56	18	1	1·0
Torquay	orqpq	orqcp	51	57	17	2	1·2
Jersey	rbcr	rc	52	58	13	2	1·0
Weymouth	cpc	bc	52	57	5	1	1·6
Bournemouth	odoro	cbbc	46	54	13	0·5	2·5
Ventnor	Rror	bcu	49	54	17	3	1·6
Portsmouth (S'thsea)	orcbc	b	49	56	17	2	2·5
Bognor	orrr	ocbcb	48	54	24	5	1·9
Littlehampton	cr	crbc	43	55	21	7	1·7
Worthing	or	crbc	47	54	22	5	1·6
Brighton	roc	odoc	47	55	15	5	0·9
Eastbourne‡	orRir	irocb	51	54	19	15	0·2
Hastings‖	orob	orcbc	50	54	17	10	0·0
Folkestone	orrm	oqcom	48	54	15	4	0·3
Dover	orir	ob	(50)	54	15	4	(0·5)
Tunbridge Wells	or	cbc	46	54	21	7	1·2
Ramsgate	oro	obc	49	54	6	1	0·8
Margate	crc	bc	49	55	5	1	0·8
Deal	roro	ocbcc	47	54	12	3	0·6

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. and at Guernsey, the sunshine readings are 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. [illegible] 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24467 Saturday, 17 November 1928. Page 1.

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

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	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground*
Lerwick	967.4	-5	SSW	3	cjp	47	75	7	1500	Nb	7	ASt	10	•
Stornoway	973.1	-5	WNW	3	bcjr	45	85	7	4000	CuNb	5	-	5	•
Wick	972.9	-4	SW	3	bc	46	75	8	2500	Cu	4	CiSt	6	•
Tiree	974.8	-5	NNE	3	cjp	46	85	8	1500	CuNb	9	-	9	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	974.5	-8	WNW	1	bc⊕	44	75	7	-	-	0	CiSt	6	1
Malin Head	974.5	-4	NNW	4	cjph	45	92	8	4000	CuNb	8	ACu	9	•
Renfrew	975.3	-8	NE	2	c	42	92	5	4000	St	6	ASt	10	2
Edinburgh (Inchkeith)	973.7	-10	ENE	1	oro	43	85	8	800	St	10	-	10	•
Leuchars	974.5	-9	-	0	o	42	92	5	2500	St	10	-	10	2
Eskdalemuir	972.5	-13	NE	4	orrs	34	97	6	800	Nb	10	-	10	2
Tynemouth	972.1	-13	ESE	4	orr	44	92	7	1500	Nb	10	-	10	•
Blacksod Point	977.3	0	NW	4	c	47	85	9	•	CuNb	8	-	8	•
Donaghadee	971.1	-14	E	7	orr	43	85	6	1500	Nb	10	-	10	•
Birr Castle	973.5	•	N	5	crr	40	92	6	1500	Nb	9	-	9	•
Holyhead	959.2	-21	S'W	4	or-	51	97	5	450	Nb	10	-	10	2
Liverpool (Bidston)	965.3	-17	SSW	4	crr	50	86	7	1500	StCu	10	-	10	•
Chester (Sealand)	965.5	-19	S	4	orr	51	85	6	800	Nb	10	-	10	2
Harrogate	969.7	-18	SE	3	oR	44	97	3	<150	St	10	-	10	•
Spurn Head	969.8	-21	S'E	6	c	50	92	7	4000	CuNb	4	ACu	8	•
Birmingham (Edgbaston)	970.2	-14	SSW	6	or	53	65	6	1500	Nb	9	-	9	2
Cranwell	971.7	-12	S'W	6	bc-	54	85	7	1500	StCu	6	-	6	2
Gorleston	977.1	-17	S'E	7	orr	50	97	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	980.8	+26	NW'N	4	cro	47	85	8	1500	St	10	-	10	2
Roches Point	976.6	+25	NW	7	c|r	47	85	7	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	964.6	-23	SW'W	10	oRR	52	85	6	450	St	10	-	10	•
Ross-on-Wye	971.3	-12	SW	8	odd	52	86	6	2500	Nb	10	-	10	2
Leafield	974.5	-8	SW	7	bcjpr	54	65	8	2500	CuNb	6	-	6	2
Winchester (Worthy Dn.)	981.0	-5	SSW	7	cro	55	75	7	2500	St	9	-	9	2
S. Farnborough	980.0	-7	SW	6	bc-	56	75	7	800	St	4	-	4	2
London (Kew Obsy.)	979.4	-9	SW'W	6	bc|r	57	65	7	1500	StCu	4	ACu	5	2
Croydon	980.5	-8	W'S	7	c-	58	65	7	800	St	8	-	8	2
Shoeburyness	979.4	-12	W	6	b|r	59	75	8	-	-	0	CiCu	1	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	979.2	-11	SSW	6	bc+	55	92	7	2500	StCu	5	ACu	7	2
Lympne	982.5	-10	SW'W	8	cro	55	92	7	450	St	7	ACu	9	2
Scilly (St. Mary's)	984.6	0	WSW	10	oro	55	97	6	3500	Nb	10	-	10	•
Falmouth (Pendennis)	983.6	0	W'S	8	c|rs	55	75	7	4000	StCu	6	ASt	8	•
Plymouth (Cattewater)	982.0	-3	WSW	10	d	55	75	6	800	Nb	10	-	10	2
Portland Bill	979.3	-2	SW'W	10	cro	57	85	5	1500	St	9	-	9	•
Southampton (Calshot)	982.6	3	WSW	8	cjrro	57	75	6	800	Nb	8	-	8	2
Dungeness	982.1	-12	WSW	8	cR	57	85	7	800	Nb	7	CiCu	9	•
Guernsey (Fort George)	985.7	-1	WSW	8	cr	51	65	6	1500	CuNb	8	-	8	•

Observations at 18h. G.M.T. 16th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	966.5	-1	SW	4	oro	46	92	7	1500	Nb	10	-	10	•
Stornoway	970.7	-2	NW	4	bcjpro	43	85	7	4000	CuNb	6	-	6	3
Wick	970.8	-3	SW	3	bc	40	85	8	2500	StCu	4	Ci	5	0
Tiree	975.6	+2	N	5	bcjp	47	75	8	1500	CuNb	4	-	4	4
Nairn	971.4	•	-	0	bc-	37	85	8	2500	Cu	4	-	4	•
Aberdeen	971.6	-3	WNW	2	c4	38	92	5	-	-	0	ASt	10	0
Malin Head	978.5	+6	NNW	5	bcjph	48	75	8	4000	CuNb	3	-	3	4
Renfrew	974.6	+2	W	3	c-	42	92	6	4000	StCu	4	ASt	9	•
Edinburgh (Inchkeith)	971.5	+3	N	3	c	42	97	7	800	St	9	-	9	1
Leuchars	972.1	+1	SW	1	c-	40	92	6	2500	St	7	ASt	8	
Eskdalemuir	972.3	+6	NNW	4	c	38	92	7	1500	StCu	7	ASt	10	•
Tynemouth	967.7	-4	NE	6	orr	43	92	7	1500	Nb	10	-	10	6
Blacksod Point	982.6	+3	NW	5	cjpro	47	85	7	•	CuNb	9	-	9	5
Donaghadee	977.3	+11	NW	4	cr-	44	85	7	2500	Nb	6	ASt	8	3
Birr Castle	982.3	•	WNW	3	ot	43	92	6	450	St	10	-	10	•
Holyhead	979.3	+29	W'N	8	crro	47	85	5	1500	Nb	9	ASt	10	6
Liverpool (Bidston)	971.0	+24	WNW	9	cr-	44	92	7	1500	CuNb	10	-	10	
Chester (Sealand)	973.3	+27	W'N	9	o|r	45	85	7	800	St	10	-	10	•
Harrogate	965.7	0	NNW	7	o	44	92	6	4000	Nb	10	-	10	•
Spurn Head	960.1	-11	WSW	7	orr	50	92	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	975.0	-16	W	7	c	47	75	8	800	Nb	9	-	9	•
Cranwell	966.5	0	W'S	7	c|r	51	85	6	1500	StCu	10	-	10	•
Gorleston	969.9	-8	SW'S	8	orr	53	85	6	800	Nb	10	-	10	5
Valentia (Cahirciveen)	984.8	+42	SW'S	4	bc|r	46	85	8	1500	St	4	CiCu	6	5
Roches Point	986.3	+17	NW	3	c	45	92	7	1500	CuNb	8	-	8	6
Pembroke (St. Ann's H.)	983.4	+44	W	5	od.do	48	92	6	800	St	10	-	10	7
Ross-on-Wye	980.0	+16	W'S	7	cdo	47	75	8	2500	Nb	9	-	9	•
Leafield	977.7	+9	WSW	8	c-	46	75	8	2600	CuNb	8	-	8	•
Winchester (Worthy Dn.)	983.2	+6	SW	7	bc-	50	75	8	800	St	5	-	5	
S. Farnborough	980.5	+6	WSW	8	bc-	52	75	7	800	Nb	6	-	6	•
London (Kew Obsy.)	979.1	+6	WSW	7	c	53	65	7	1500	StCu	9	-	9	•
Croydon	980.3	+4	W	8	c-	52	75	7	800	St	8	-	8	•
Shoeburyness	976.4	+9	SW	8	c|r	53	92	8	2500	StCu	9	-	9	•
Clacton-on-Sea	974.4	-4	SSW	9	or	53	85	6	2500	Nb	10	-	10	5
Felixstowe	974.0	-5	SW	8	orr	52	85	6	1500	Nb	10	-	10	7
Lympne	979.8	-2	SW'S	10	bcro	-	-	7	800	Nb	5	-	5	•
Scilly (St. Mary's)	990.1	+6	WSW	8	bcr	53	75	7	4000	CuNb	4	-	4	8
Falmouth (Pendennis)	990.3	+9	W'N	6	bcjpro	53	75	8	4000	CuNb	5	ASt	7	4
Plymouth (Cattewater)	988.9	+6	W	8	bc	54	75	7	800	CuNb	4	-	4	6
Portland Bill	983.8	+8	W'S	9	bcr	53	85	6	1500	St	6	-	6	8
Southampton (Calshot)	984.0	+8	W	9	bcjpro	53	65	6	1500	CuNb	7	-	7	8
Dungeness	975.5	-12	WSW	10	bc|r	55	97	6	800	Nb	4	-	4	8
Guernsey (Fort George)	992.2	+3	WSW	8	c	55	65	7	1500	Nb	5	ASt	8	8

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 13h. G.M.T. % (Yesterday)	Humidity 8h. G.M.T. % (To-day)	Visibility 8h.
Kew	18	crg	cgjpr	cgbcr	59	46	41	9	[illegible]	1.6	*	*	5
Croydon	244	[illegible]	[illegible]	[illegible]	59	46	43	9	1	0.4	*	*	6
Greenwich (Royal Obsy.)	149	crc	[illegible]	[illegible]	59	45	39	[illegible]	[illegible]	1.2	69	83	[illegible]
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	1.5	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	60	46	42	*	5	1.5	75	92	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	1.2	*	*	*
Camden Square	110	orc	corc	*	58	46	-	9	0.3	*	*	91	*
Kensington Palace	80	comr	orc	*	60	46	40	6	0.6	*	(At 18h) 73	77	*
Hampstead Observatory	450	*	*	*	56	42	34	11	0.5	1.3	*	97	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre. 24 Hr. ended 7h. G.M.T. 17th

South Kensington			
Max.	Time.	Min.	Time.
0.6	9h. 16th	<0.3	4h. 17th

Kew Observatory			
Max.	Time.	Min.	Time.
0.4	8h. 16th	<0.1	3h. 17th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 16 17 h. 15 m. to 17 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.00	5.37	43
δ Ursae Minoris	13.00	4.46	37

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.

17th–18th November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.20 / 7.22	11.38 / 11.38	15.56 / 15.54
Greenwich	7.23 / 7.25	11.45 / 11.45	16.6 / 16.5
Wick	8.8 / 8.10	11.57 / 11.56	15.46 / 15.44
Valentia	8.6 / 8.7	12.26 / 12.26	16.46 / 16.44

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, 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.

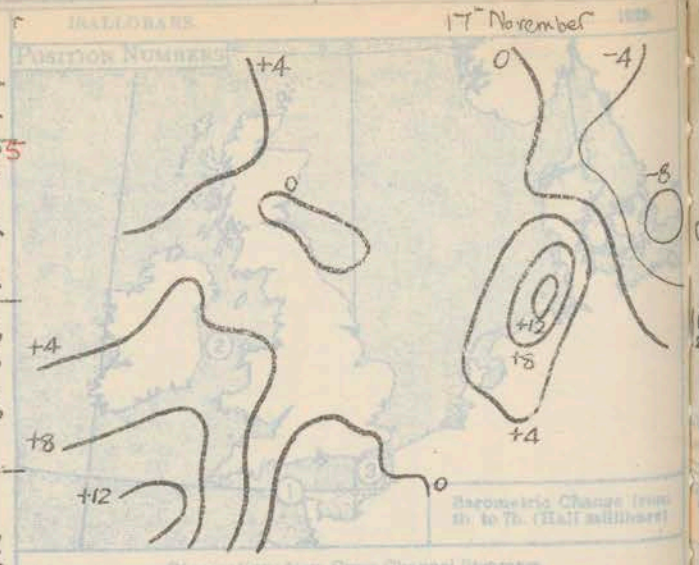
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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 2570.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 16°	18h.-18h. 16°	19h. 16° to 1h. 17°	1h.-7h. 17°	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 16° Hours.
Lerwick	cpr₀	coir₀r₀	cir₀	cir₀	47	44	•	3	18·00	0·1	21·00	5·5
Stornoway	p	p	p	r-d	46	41	•	4	11·00	14	21·00	2·9
Wick	b-bc	b-bc	b-bc	bcpr₀	47	37	•	-	-	1	3·30	•
Tiree	prc	prbc	prc	prq	47	42	40	5	18·00	5	21·00	1·2
Nairn	bc	bcx	bcqc	rrc	43	36	•	-	-	5	2·30	1·1
Aberdeen	bbc	bccz₀	cx₀bc	bccrbc	44	36	26	-	-	1	5·30	0·4
Malin Head	c	cbcpr₀	bcphr₀pr₀	bcqphr₀	48	44	•	1	12·30	0·5	21·00	0·0
Renfrew	cm₀f	cd₀mc	am₀b	bcopr₀	43	39	34	0·1	13·30	0·4	2·30	0·0
Edinburgh (Inchkeith)	bccom₀	oir₀r₀c	cbcb	bbcp	44	42	39	1	12·30	-	-	0·0
Leuchars	cm₀om₀	ocm₀	cbcb	bbcc	43	37	34	Tr	-	-	-	0·0
Eskdalemuir	wrocsm₀	osorr₀c	cbc	bccpr₀	40	37	34	16	11·00	Tr.	6·30	0·0
Tynemouth	orrq	orrq	orrcbcq	bcq	45	41	38	14	11·00	1	21·00	•
Blacksod Point ...	pc	p	pc	pc	48	42	•	1	•	1	•	•
Donaghadee	orrm₀	rrcir	cirbc	bcq	47	36	•	16	18·00	0·3	21·00	•
Birr Castle	ocrr	cr₀r₀	cxm₀	cr₀r₀	45	35	22	7	18·00	-	-	0·0
Holyhead	rrRirq	pr₀qq	cbcb	b	54	47	45	14	18·00	-	-	0·6
Liverpool (Bidston) ...	orrmc	r₀rq	rqcph	cbcbq	50	42	40	10	18·00	2	21·00	0·0
Chester (Sealand) ...	cr₀rm₀	orm₀q	cirbc	c,b	53	43	39	11	18·00	3	21·00	0·1
Harrogate	cofRR	offrrq	oqir₀oc	cb	46	40	37	17	9·00	0·1	21·00	0·0
Spurn Head	orrqc	orrq	obmqo	cbc	54	42	•	7	9·00	2	21·00	0·5
Birmingham (Edgbaston)	orbccr	oro	cpr₀	cb	56	39	35	12	18·00	0·2	21·00	1·1
Cranwell	ormfc	bcorrq	irc	cbc	56	40	37	10	9·00	0·1	21·00	1·0
Gorleston	corrq	orbcoq	orbcq	bcl	55	42	39	5	9·00	1	21·00	1·2
Valentia (Cahirciveen)	or₀r₀	cr₀r₀	cir	crbc	52	42	35	8	18·00	4	21·00	0·0
Roches Point	crcirc	cr₀r₀c	cbcp₀b	b	50	40	•	3	18·00	Tr.	21·00	•
Pembroke (St. Ann's H.)	oro6mq	orrd₀dm	cbcprq	cbcp₀	55	44	•	14	18·00	2	21·00	0·0
Ross-on-Wye	rqcqpqdq	irrq	cqbccb	bcpb	57	40	32	7	18·00	0·4	4·30	0·5
Leafield	forrqbcp	cpqr₀	bc	bbcp₀c	56	39	36	13	18·00	0·1	5·30	1·3
Winchester (Worthy Dn.)	orrm₀qq	cr₀crq	bcqprc	bccr	57	44	39	9	18·00	3	21·00	0·5
S. Farnborough ...	orrm₀qbc	bcpcqorq	bccbqc	cor₀	57	45	38	7	18·00	0·5	5·30	1·3
London (Kew Obsy.) ...	crq	cqp₀	cqb	b,cr₀	59	46	41	9	18·00	0·4	6·30	1·6
Croydon	corrRq	crrqq	c	cr₀r₀m₀	59	46	43	9	18·00	1	5·30	0·4
Shoeburyness	or₀rorqbq	bcorq	cqb	om₀r₀	60	45	40	7	18·00	0·1	6·30	1·0
Clacton-on-Sea ...	orr	orrq	o	oc	57	45	39	7	11·00	-	-	1·6
Felixstowe	orrc	bcqrrq	orrcbc	bwbcc	58	45	40	7	18·00	0·2	21·00	1·8
Lympne	cor₀r₀rqf	cprq	bclb	bclcr₀	(55)	*	*	9	18·00	0·1	21·00	0·6
Scilly (St. Mary's) ...	coRq	cp₀q	bcPl	bcPlq	57	48	•	0·3	18·00	5	21·00	0·9
Falmouth (Pendennis)	orrqq	bcprq	bccprlq	cbcPRq	58	47	•	1	18·00	11	21·00	0·3
Plymouth (Cattewater)	orrcqc	cqprbcm₀	bqcpR	cqpR₀bc	61	48	45	2	18·00	5	21·00	*0.0
Portland Bill	cqirm₀	cqir₃₀	cqircqRbcl	bcqlcql	58	50	•	5	18·00	11	21·00	•
Southampton (Calshot)	orrqm₀c	crm₀prq	r-d	irql	58	47	46	6	18·00	1	22·00	0·5
Dungeness	cqrrcrq	crrq	bcql	bclprcp	60	50	•	13	18·00	1	5·30	•
Guernsey	rrqrm₀c	cq	ocblq	corRqclr	58	48	•	5	18·00	13	21·00	0·0



Barometric Change from 6h. 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	16th 10h	[illegible]	S	7	[illegible]	50	55	6

GENERAL INFERENCE.

A complex depression with centres over the Shetlands and Denmark, together with a secondary over the English Channel, will pass away eastwards and a ridge of high pressure move from the Atlantic across the British Isles. Winds will be northwesterly to westerly and weather squally with thundery showers and bright periods in all districts. Temperature will be lower than of late.

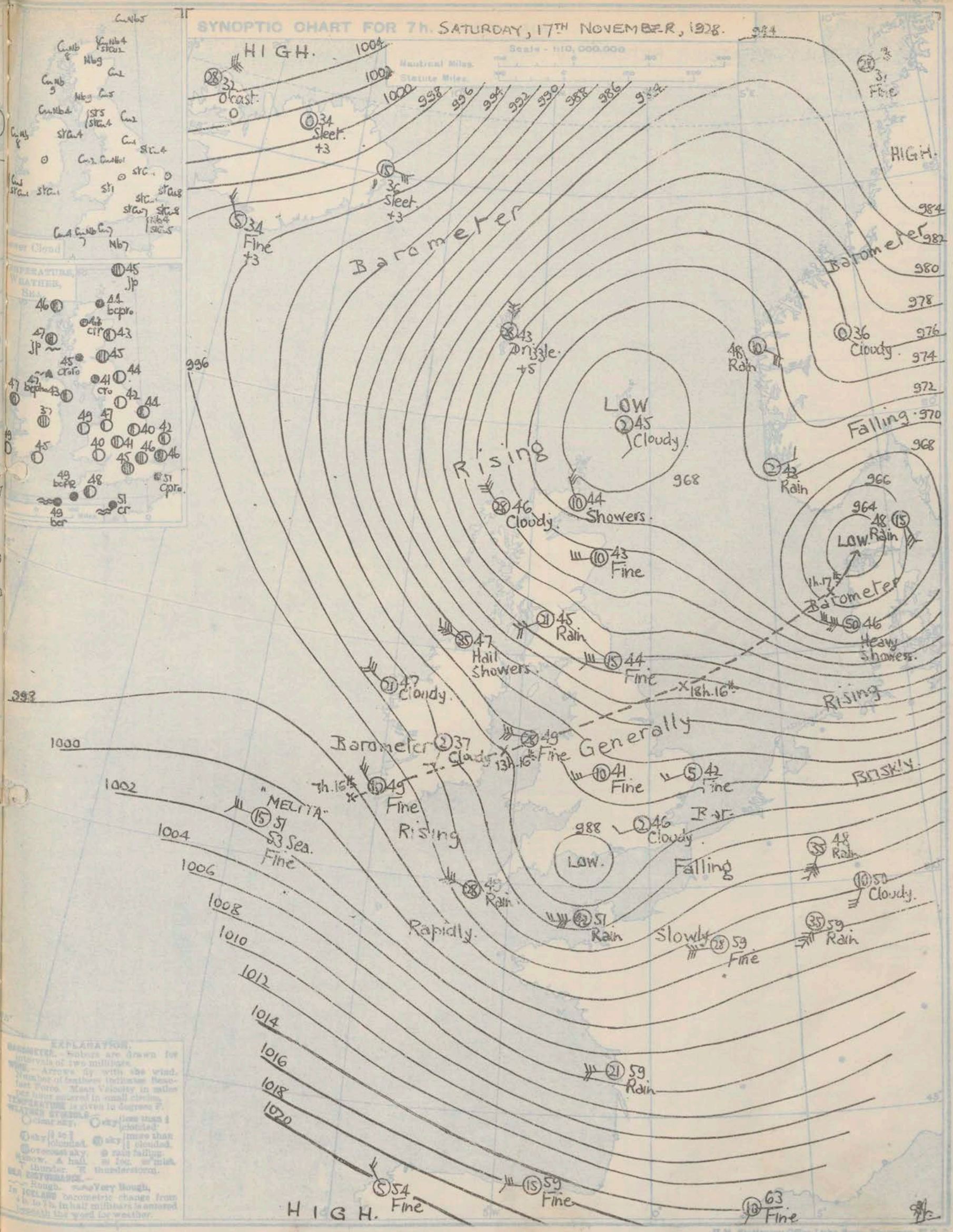
Districts. Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 17th November, 1928. Further Outlook.

Districts.	Forecast	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Winds mainly westerly, moderate to strong, stronger at times at first, moderating; squally; bright periods, occasional showers or rain, showers of a thundery type locally; cooler with chance of slight ground frost at night.	Continuing unsettled.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Winds between north and west, moderate to strong, stronger at times at first, moderating; bright periods, local thundery squalls and showers; colder with chance of slight ground frost locally at night.	
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	Northerly to northwesterly winds, strong at times, moderating and backing; bright periods, occasional rain or showers, showers perhaps of a thundery type locally; snow or sleet at times on hills; colder with ground frost locally at night.	South cone still flying.
19. S.E. Ireland 20. S.W. Ireland	Westerly winds, backing, strong at times; bright periods, occasional rain or showers; moderate temperature.	

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

Trace = rain has fallen, but amount less than 0·1 mm.

† For code see page 1


SYNOPTIC CHART FOR 7h. SATURDAY, 17TH NOVEMBER, 1928.
HIGH.
Barometer
Rising
Falling
LOW
Cloudy
Showers.
Fine
Rain
Drizzle.
Sleet.
Hail Showers.
Heavy Showers.
Generally
Briskly.
Rapidly.
Slowly
"MELITA"
53 Sea.
HIGH.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...Saturday 17th November.....1928. No. 322.

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 17th. 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. 17th. 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	966.5	0	S	2	c/p	47	75	7	1500	Cu.Nb	4	St.St.	8	967.1	+2	SE	1	c/p	45	92	7	1500	Cu.Nb	5	St.St.	9	•
Stornoway	80	971.6	-3	NW	6	bc/pr	•	•	7	•	•	•	•	7	973.9	+6	NW	6	c/r	46	85	7	4000	Cu.Nb	8	-	8	5
Wick	81	969.7	1	SW	3	c	40	92	8	2500	St.Cu.	6	St.St.	8	969.6	+4	NNW	3	bc/pr	44	92	8	2500	Nb.	6	-	6	0
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	971.0	+3	NW	7	c/p	47	85	8	1500	Cu.Nb.	9	-	9	6
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	972.0	0	WNW	1	c r	43	92	7	800	Nb.	9	-	9	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	972.1	+1	W	3	bc/r	43	75	8	2500	Cu.	2	St.Cu.	3	0
Malin Head	51	982.5	+3	NW	5	bc/pr	47	85	8	4000	Cu.Nb	3	-	3	985.5	+3	NW	7	bc/pr	47	85	8	4000	Cu.Nb.	4	-	4	7
Renfrew	88	•	•	•	•	•	•	•	•	•	•	•	•	•	979.2	+2	WSW	5	c/r	45	85	8	800	Nb.	9	-	9	•
Edinburgh (Inchkeith)	160	974.9	+2	SW	4	b	43	75	8	—	—	0	St.Cu.	1	974.3	0	WSW	7	c	45	75	8	4000	Cu.	5	St.St.	9	4
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	974.5	0	SW	4	c	42	85	8	2500	St.Cu	7	Cu	8	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	979.6	0	W'S	5	cr	41	75	7	1500	St.	9	-	9	•
Tynemouth	67	977.8	+4	W	3	bc	42	85	7	800	St.	5	-	5	976.4	0	W	4	b	44	75	7	1500	Cu.	2	-	2	4
Blacksod Point ...	18	987.5	+2	NW	4	bc	47	75	7	•	Cu.Nb.	7	-	7	992.4	+3	NW	5	c	47	8 ~~7~~5	7	•	Cu.Nb	8	-	8	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	985.5	+3	WNW	5	bc+	43	75	8	5700	St.Cu.	4	-	4	6
Birr Castle	173	• 6	•	•	•	•	•	•	•	•	•	•	•	•	991.7	•	SSW	1	c	37	92	6	-	-	0	St.St.	10	•
Holyhead	26	983.0	+5	W	5	b	43	75	7	1500	Cu.	2	-	2	989.3	+5	W'N	6	b	49	75	8	2500	Cu.	2	-	2	5
Liverpool (Bidston) ...	183	•	•	•	•	•	•	•	•	•	•	•	•	•	986.4	0	WNW	6	b-	47	75	8	1500	St.Cu.	1	-	1	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	986.7	+4	W	4	b	45	75	7	2500	Cu.	1	St.Cu.	2	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	983.0	+3	WSW	4	b-	42	85	8	4000	Cu.	1	St.Cu.	2	•
Spurn Head	29	979.8	+3	W'S	6	c-	44	85	7	2500	Nb.	9	-	9	983.4	+2	WSW	5	bc	44	85	6	5700	St.Cu.	4	Ci.Cu.	7	3
Birmingham (Edgbaston)	536	•	•	•	•	•	•	•	•	•	•	•	•	•	983.9	+3	W	3	bc	44	85	6	-	-	0	Cu.	3	•
Cranwell	236	983.6	+3	WSW	4	c	42	92	7	2500	St.	10	-	10	986.0	+3	WSW	4	bc-	40	92	6	5700	St.Cu.	1	Ci	5	•
Gorleston	14	983.4	+2	W'S	4	bc-	45	85	7	4000	St.Cu.	3	-	3	986.4	+2	WSW	2	bc-	42	92	7	-	-	0	Ci.Cu.	4	0
Valentia (Cahirciveen)P	30	992.0	+4	W	2	bc/r	45	92	9	+	—	0	-	0	997.2	+7	NW	3	b	49	65	8	4000	Cu	2	-	2	5
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	995.8	+7	N	3	b	45	85	8	2500	St.Cu.	1	-	1	4
Pembroke (St. Ann's H.)	160	985.9	+1	WSW	3	c/pr	51	75	7	800	Nb	8	-	8	990.7	+6	NW	4	bc-	48	75	8	2500	Cu	4	Ci	6	4
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	989.4	+2	W	2	b	40	97	8	2500	St.	1	St.St.	1	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	987.8	+1	W	3	bc-	41	92	8	5700	StCu	2	ASt	3	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	988.8	-3	S'W	1	c/r	44	97	8	4000	St.Cu.	5	St.St.	8	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	989.1	-2	W'N	1	c	45	92	8	2500	St.Cu.	7	St.St.	9	•
London (Kew Obsy.) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	988.2	-1	WSW	1	c/r	46	92	6	2500	St.Cu.	2	St.St.	10	•
Croydon	244	988.8	+2	W	4	c	47	85	7	-	-	0	Ci.	8	988.2	-1	W'S	3	c/r	46	92	6	2500	Nb.	6	St.St.	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	988.6	0	WSW	1	cr	46	97	6	800	St.	3	St.St.	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	987.5	0	SW	4	c	46	85	7	5700	St.Cu.	8	-	8	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	987.7	+1	SW	3	c	45	85	8	2500	St.Cu.	2	St.Cu.	8	2
Lympne	350	988.5	+7	SW	4	b-	44	85	8	2500	St.Cu.	2	-	2	988.5	-1	SW'S	3	cr	45	92	7	2500	Nb.	8	St.St.	10	•
Scilly (St. Mary's) ...	163	990.4	-3	WSW	8	bc	52	85	6	4000	Cu.Nb	4	-	4	995.8	+2	NW	6	bc+	49	85	8	4000	Cu.	4	-	4	8
Falmouth (Pendennis)	200	990.5	-3	NW	6	c/pr	48	92	7	2500	Cu.Nb.	10	-	10	992.4	+7	NW	5	bc/pr	49	92	7	4000	Cu.Nb	7	-	7	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	990.5	+4	WNW	4	bc	48	97	7	2500	Cu.	7	-	7	2
Portland Bill	32	989.2	+4	WSW	7	bc/r	52	85	8	2500	Cu	4	-	4	987.3	+2	W	6	cr-	51	85	8	1500	St	9	ASt	10	7
Southampton (Calshot)	10	989.9	+3	W'S	5	bc+	50	75	7	2500	St.Cu.	4	St.St.	6	988.0	-3	W'S	3	c/r	48	85	7	1500	Nb.	6	St.St.	8	3
Dungeness	20	988.2	+6	WSW	6	bc	51	85	8	4000	St.Cu.	4	-	4	987.4	+2	W	5	c/pr	51	85	8	2500	St.Cu.	9	-	9	5
Guernsey (Fort George) P	205	994.0	+2	W	4	c/pr	{50}	85	6	1500	St.Cu.	10	-	10	990.8	-2	W	3	cr	51	85	7	800	Nb	7	St.St.	10	8

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Friday 16th Nov.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 15 to 9h. 16 °F	Temperature. Max. 9h. 16 to 9h. 17 °F	Rainfall.† Night 17h.-9h. 15-16 mm.	Rainfall.† Day 9h.-17h. 16 mm.	Sunshine. Sunrise to Sunset. 16 hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	oR	Ro	40	44	-	5	0.0
Douglas (I. o. M.) ...	oRRq	oRRoq	42	46	2	23	0.0
Llandudno ...	rr	ropqc	43	54	3	7	0.0
Colwyn Bay ...	oror	rroro	40	53	-	10	0.0
Rhyl	bcp	prq	40	55	2	10	0.2
Wallasey	oRR	oRo	42	51	3	8	0.0
Southport	rR	Rro	*41	49	2	12	0.0
Blackpool	or	oro	41	49	4	11	0.0
Ilkley	rr	rr	41	47	-	22	0.0
Cleethorpes	oro	oro	40	54	-	9	0.0
Skegness	orbc	bcorq	45	51	Trace	7	1.2
Aberystwyth ...	cpR	prc	47	50	4	5	0.3
Bath	rcbcp	bcq	47	59	7	3	1.0
Cheltenham ...	orqbcQr		43	56	3	6	0.5
Leamington Spa ...	cr	c	41	57	8	2	1.2
Lowestoft	circ	cbccr	42	56	-	5	1.2
Harwich & Dovercourt	roc	bcoor	43	59	1	7	2.0
Maldon	rr	bcq	39	59	2	6	1.3
Southend	or	obcqO	46	58	1	4	1.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	opq	qpor	47	58	5	2	0.4
Penzance	cq	cqpr	52	57	13	0.3	1.3
Paignton	orq	orpcq	51	58	8	2	0.1
Torquay	ornc	prq bq	51	58	9	2	0.2
Jersey	rbc	bcr	53	60	10	0.6	0.3
Weymouth	cpq	qpq	51	58	8	0.2	0.3
Bournemouth ...	oc	crc	48	58	6	1	0.8
Ventnor ...	ormec	orc	50	57	5	3	1.1
Portsmouth (S'thsea)	orc	c	48	59	7	3	0.0
Bognor	oRR	bcor	50	57	11	4	0.5
Littlehampton ...	cr	cbcqc	50	58	5	5	0.4
Worthing	orc	cir	49	56	6	6	0.5
Brighton	roro	orqr	50	58	4	7	0.0
Eastbourne	rroq	oRcoq	50	54	4	11	0.4
Hastings‖	ororc	bcoro	47	57	4	9	0.3
Folkestone	orRm	bcirm	44	58	5	7	0.4
Dover	orir	robcpc	48	58	7	7	0.2
Tunbridge Wells ...	oror	opop	44	57	3	6	0.1
Ramsgate	ro	obc	46	58	1	-	0.07
Margate	crc	bc	46	58	1	4	0.5
Deal	rro	oco	45	58	2	9	0.3

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. P The observations at 11h. G.M.T. and, at Guernsey, the sunshine readings are 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. § 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24468 Sunday, 18th November 1928. Page 1.

Observations at 13h. G.M.T. 17th

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	978.6	+4	NW	1	orc	46	92	7	1500	Nb	10	-	10	•
Stornoway	972.4	+6	NW	6	c|PR	47	85	7	2500	Nb	9	-	9	•
Wick	974.4	+6	NNW	7	c|pr0	46	85	8	1500	Nb	8	ASt	10	•
Tiree	986.1	+4	N'W	8	cRR	45	92	7	1500	Nb	9	-	9	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	975.0	+2	W	4	bcjp	49	75	8	2500	CuNb	3	ACu	3	1
Malin Head	991.1	+5	NW	7	bc|ph0	48	85	8	4000	CuNb	5	-	5	•
Renfrew	984.5	+6	WNW	7	cp0	46	85	8	1500	CuNb	6	ACu	8	2
Edinburgh (Inchkeith)	979.5	+2	WSW	7	bc0	48	75	8	4000	Cu	2	ACu	6	•
Leuchars	978.8	+3	WSW	5	bcv	50	65	9	4000	StCu	2	ACu	5	2
Eskdalemuir	984.2	+6	W	6	c|pr0	44	75	8	2500	St	9	-	9	2
Tynemouth	981.7	+3	W	5	bc	48	75	7	1500	Cu	3	ACu	4	•
Blacksod Point	997.4	+4	W	4	bc	48	85	8	-	CuNb	6	-	6	•
Donaghadee	991.2	+5	WNW	5	bc-	48	65	8	4000	Cu	5	-	5	•
Birr Castle	997.5	*	W	4	b-	50	75	7	4000	Cu	2	-	2	•
Holyhead	994.9	+6	W	7	bc	50	75	8	1500	Cu	5	CiCu	5	1
Liverpool (Bidston)	991.3	+4	WNW	7	c+	48	75	8	2500	CuNb	8	CiSt	8	•
Chester (Sealand)	991.4	+4	WNW	6	bcr0	50	65	8	1500	Cu	7	-	7	2
Harrogate	986.8	+3	SW'W	7	c	47	65	8	4000	Nb	8	ACu	9	•
Spurn Head	985.3	0	W	8	C	50	65	7	5700	StCu	5	CiCu	8	•
Birmingham (Edgbaston)	994.1	+4	W	6	bc	49	55	8	2500	Cu	4	-	4	2
Cranwell	990.2	+5	W	6	c+	49	75	8	2500	Cu	5	Ci	8	1
Gorleston	989.4	+3	W	4	b	50	75	6	5700	Cu	2	-	2	•
Valentia (Cahirciveen)	1002.4	+4	W'N	4	b	50	75	8	2500	Cu	1	ACu	2	2
Roches Point	1001.6	+4	NW	4	bc	50	75	8	1500	CuNb	2	CiCu	3	•
Pembroke (St. Ann's H.)	998.4	+6	W	4	bc	52	75	8	1500	Cu	7	-	7	•
Ross-on-Wye	996.1	+6	W'N	4	bc+	50	65	8	4000	Cu	7	-	7	2
Leafield	994.9	+5	W	6	bv	49	65	9	4000	Cu	2	-	2	2
Winchester (Worthy Dn.)	997.0	+7	W	5	bc	50	65	8-	4000	Cu	4	-	4	2
S. Farnborough	995.3	+8	W	4	bc	52	65	7	2500	Cu	4	-	4	2
London (Kew Obsy.)	995.3	+7	W	4	bc+	50	65	7	1500	Cu	3	ACu	4	2
Croydon	995.0	+7	WNW	5	bc-	51	65	7	4000	Cu	3	ACu	4	2
Shoeburyness	993.6	+6	WNW	4	bc	51	85	8	2500	Cu	1	CiCu	4	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	992.5	+6	W	5	b	50	65	8	-	-	0	CiCu	2	2
Lympne	993.9	+11	W	4	bc	49	75	5	-	-	0	ACu	7	2
Scilly (St. Mary's)	1004.1	+5	W	6	bc	54	65	8	4000	Cu	4	-	4	•
Falmouth (Pendennis)	1001.9	+4	NW	4	bc-	52	65	8	4000	Cu	5	-	5	•
Plymouth (Cattewater)	1001.1	+6	WNW	5	b	53	75	8	1500	CuNb	1	-	1	2
Portland Bill	998.1	+5	W	6	bc-	53	65	8	2500	Cu	3	-	3	•
Southampton (Calshot)	997.0	+8	WNW	6	bc+	51	65	8	4000	StCu	3	-	3	2
Dungeness	995.2	+10	WSW	4	bc	53	55	8	2500	Cu	1	CiCu	7	•
Guernsey (Fort George)	1001.8	+8	WNW	6	bc	52	65	8	1500	Cu	7	-	7	•

Observations at 18h. 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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	976.0	+5	N'W	2	orr	46	92	7	1500	Nb	10	-	10	•
Stornoway	986.5	+8	NW	6	c|PR	47	85	6	4000	Nb	9	-	9	5
Wick	980.5	+9	NNW	8	c|PR	45	92	8	1500	Nb	6	ASt	8	0
Tiree	991.2	+6	N'W	7	bcjp	47	85	7	2500	CuNb	4	-	4	7
Nairn	984.1	*	WNW	2	c|r	44	92	8	1500	CuNb	8	-	8	•
Aberdeen	981.6	+9	WNW	4	bcr0	44	85	8	2500	CuNb	5	-	5	3
Malin Head	995.5	+6	NW	7	bc|ph	47	85	7	4000	CuNb	3	-	3	7
Renfrew	989.2	+6	W	5	bc-	44	85	8	2500	Cu	3	ACu	5	•
Edinburgh (Inchkeith)	983.7	+5	WSW	7	bc	46	75	8	4000	Cu	1	ACu	3	4
Leuchars	984.7	+9	W	6	bc|PR	46	75	8	4000	Nb	5	ASt	6	•
Eskdalemuir	988.3	+6	W	6	bc	43	75	7	2500	StCu	7	-	7	•
Tynemouth	985.7	+3	W	5	bc	45	85	7	1500	Cu	3	-	3	4
Blacksod Point	1000.9	+3	W	4	bc	48	75	7	*	CuNb	6	-	6	5
Donaghadee	995.5	+4	WNW	5	bc-	44	75	8	4000	CuNb	4	-	4	4
Birr Castle	1001.8	*	W	2	b	43	85	7	1500	CuNb	2	-	2	•
Holyhead	998.5	+5	W'S	7	b-	49	75	7	1500	Cu	1	-	1	6
Liverpool (Bidston)	995.0	+3	W'N	7	c|ph0	48	75	8	2500	CuNb	8	-	8	•
Chester (Sealand)	995.5	+4	WNW	6	b-	48	75	8	2500	StCu	1	-	1	•
Harrogate	991.4	+3	WSW	6	br	44	75	7	2500	Nb	1	-	1	•
Spurn Head	989.8	+4	W	7	bc=	47	75	6	4000	Nb	3	-	3	5
Birmingham (Edgbaston)	998.8	+4	WSW	3	b	45	85	6	2500	Cu	1	-	1	•
Cranwell	994.5	+6	W	6	b-	45	75	7	2500	StCu	1	-	1	•
Gorleston	993.6	+4	W	4	b	46	85	7	-	-	0	-	0	1
Valentia (Cahirciveen)	1005.2	+3	W'N	4	bc|pr0	51	85	8	1500	St	6	-	6	4
Roches Point	1004.8	+4	NW	3	b0	48	85	8	2500	StCu	1	-	1	5
Pembroke (St. Ann's H.)	1001.4	+4	W	4	bc-	49	75	8	800	CuNb	5	ACu	7	6
Ross-on-Wye	1000.2	+3	W	4	b	47	65	8	4000	Cu	1	-	1	•
Leafield	999.6	+4	W'S	4	b	43	75	8	4000	StCu	1	-	1	•
Winchester (Worthy Dn.)	1001.6	+5	W'S	4	b	46	85	8	2500	Cu	2	-	2	•
S. Farnborough	1000.3	+5	W	4	b	46	75	8	-	-	0	-	0	•
London (Kew Obsy.)	1000.4	+6	WSW	3	b	47	65	7	-	-	0	-	0	•
Croydon	1000.3	+5	W	4	b-	46	75	6	2500	StCu	1	-	1	•
Shoeburyness	998.1	+5	W'N	4	b	47	92	7	4000	StCu	1	-	1	•
Clacton-on-Sea	997.0	+4	WSW	5	b	47	75	7	-	-	0	Ci	0	2
Felixstowe	996.9	+5	W'S	5	b.	47	75	8	-	-	0	-	1	3
Lympne	999.3	+5	SW'W	4	b	44	85	8	-	-	0	-	0	•
Scilly (St. Mary's)	1007.0	+4	W	5	bc	51	75	8	4000	Cu	3	-	3	6
Falmouth (Pendennis)	1005.2	+4	W'N	3	bc|pr0	48	85	7	4000	CuNb	5	-	5	1
Plymouth (Cattewater)	1005.2	+4	W	3	bjp	49	92	8	2500	CuNb	1	-	1	2
Portland Bill	1002.3	+6	W	5	bc-	52	65	8	2500	Cu	3	-	3	7
Southampton (Calshot)	1002.1	+6	W	4	b-	47	75	8	2500	CuNb	1	-	1	2
Dungeness	999.0	+4	WSW	4	b-	49	75	8	2500	Cu	2	-	2	4
Guernsey (Fort George)	1006.1	+6	WNW	5	bcr0	50	75	8	1500	CuNb	5	-	5	6

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

LONDON OBSERVATIONS.	Heights above M.S.L. in feet.	Weather Morning	Weather Afternoon	Weather Night (24 hours ended 9h.)	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 13h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h.
Kew	18	bmbc	bcb	bbc	52	42	36	Tr.	-	5.8	*	*	*
Croydon	244	cbcmg	bcbm	cbm.bc	51	43	39	-	-	-	*	*	*
Greenwich (Royal Obsy.)	149	bcebc	bccb	bmc	52	41	33	-	Tr.	5.0	57	84	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	4.0	*	*	*
Westminster (St. James' Pk.)	77	*	*	*	52	41	34	-	-	4.8	61	84	*
Regent's Pk. (Botanic Gdns).	163	*	*	*	*	*	*	*	*	4.7	*	*	*
Camden Square	110			*	52	41	*	-	-	*	*	85	*
Kensington Palace	80	bc	b	*	52	41	32	-	-	*	(At 18h) 53	83	*
Hampstead Observatory	450	*	*	*						6.1	*		*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 18th

South Kensington Max.	Time.	Min.	Time.
0.6	10h 17th	<0.3	5h 18th

Kew Observatory Max.	Time.	Min.	Time.
0.4	9h 17th	<0.1	5h 18th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 17th 17h. 00m. to 18th 6h. 30m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13.30	13.30	100
δ Ursae Minoris	13.30	13.30	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. 17th & 18th November 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.22 / 7.24	11.39 / 11.39	15.54 / 15.52
Greenwich	7.25 / 7.26	11.45 / 11.45	16.05 / 16.04
Wick	8.10 / 8.13	11.59 / 11.59	15.42 / 15.40
Valentia	8.07 / 8.09	12.26 / 12.26	16.14 / 16.13

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—2000 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. 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, 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
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent 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

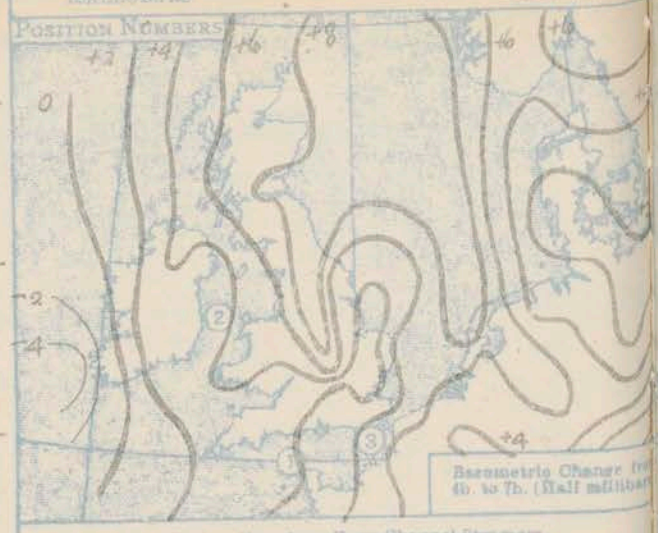
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 17th	Weather. 18h.-18h. 17th	Weather. 18h. 17th to 18h. 18th	Weather. 18h.-7h. 18th	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 17th. Hours.
Lerwick	orr	orr	bcpro c	cprobr	45	42	•	7	<8.00	0.3	<21.00	0.0
Stornoway	p	p	p	bcprb	47	40	•	3	9.00	7	<21.00	0.4
Wick	cbr	cpr	bcpr	clR	46	42	•	7	<8.00	5	22.00	•
Tiree	bcq	bcq bc	prq	probc	48	46 40	40	3	<8.00	1	<21.00	2.3
Nairn	RRbq	bric	apr	pbc	44	40	•	8	<8.00	2	<21.00	0.5
Aberdeen	bcbr	bcq br	bcprcirb	bbq	49	42	37	1	9.00	1	<21.00	3.9
Malin Head	bcq pnr	bcq pnr	bcpro	bcpobc	49	42	•	1	<8.00	0.2	<21.00	2.6
Renfrew	coirp	cqlpobc	bcqpo	bbcpobc	47	41	36	0.6	<8.00	0.2	<21.00	0.8
Edinburgh (Inchkeith)	cbcq	bbc	bcbq	bq	49	44	40	—	—	—	—	2.8
Leuchars	bcv	bcvbq bc	bcqbc	bcb	50	38	35	0.4	16.30	—	—	4.5
Eskdalemuir	cbc	cbc	cprobc	bce	45	40	38	0.1	<8.00	Tr.	<21.00	0.2
Tynemouth	bbcq	bcq	bcbq	bq	48	42	38	—	—	—	—	•
Blacksod Point ...	pqc	pqc	pb	er	50	44	•	1	•	1	•	•
Donaghadee	prbc	bcq	bq	bcb	49	36	•	4	9.00	—	—	•
Birr Castle	cpcb	b	bc	cmo	50	43 37	25	—	—	—	—	6.3
Holyhead	bbc	bcuq	bbcb	bbc	50	47	44	—	—	—	—	5.9
Liverpool (Bidston) ...	cbcQ	cbccp	cprhb	qbbc	49	45	41	Tr.	16.30	0.1	<21.00	4.9
Chester (Sealand) ...	bbc	prcbcq	bcprob	bbc	50	45	41	Tr.	12.30	Tr.	<21.00	5.3
Harrogate	bbccq	cbqir	bbc	bcb	47	41	36	Tr.	17.30	—	—	4.6
Spurn Head	bccl	bcq	bcq	bc	50	44	•	—	—	—	—	4.8
Birmingham (Edgbaston)	bcbbc	bcb	b	bbc	50	40	35	—	—	—	—	6.2
Cranwell	c	bcib	b	b	51	40	37	Tr.	13.30	—	—	5.8
Gorleston	bcq	bq	bq	bq	50	41	39	—	—	—	—	7.2
Valentia (Cahirciveen)	bbcph	bbcp	phbc	cpro	52	48	43	2	9.00	1	<21.00	4.9
Roches Point	bbc	bcb	bw	bbccw	53	48	•	—	—	Tr.	—	•
Pembroke (St. Ann's H.)	bbc	bccpq	bcq	bcqP	53	49	•	Tr.	17.30	1	3.30	? 0.0
Ross-on-Wye	bcbbc	bcpcb	bbcpob	b	51	43	37	Tr.	14.30	0.1	<21.00	6.1
Lisfield	bc	bp	bw	b	49	38	32	Tr	16.30	Tr.	—	7.3
Winchester (Worthy Dn)	cbc	bcb	b	bbc	51	39	34	—	—	—	—	7.3
S. Farnborough ...	cbcbbc	bcp	b	bw	52	41	35	—	—	—	—	6.3
London (Kew Obsy.) ...	bmbc	bcb	b	bbc	52	42	36	Tr.	—	—	—	5.8
Croydon	cbcmc	bcbm	bmcb	bbc	51	43	39	—	—	—	—	—(5.5)
Shoeburyness	crmbc	bcb	b	b	52	42	38	Tr.	<8.00	—	—	5.1
Clacton-on-Sea ...	c8c	bcb	b	b	50	42	37	—	—	—	—	?
Felixstowe	b	b	b	b	51	44	41	—	—	—	—	6.1
Lympne	crbc	bcb	b	b	?	35	?	Tr.	<8.00	—	—	4.6
Scilly (St. Mary's) ...	bcp	bc	bc	bcpo	54	49	•	0.4	<8.00	0.1	<21.00	6.5
Falmouth (Pendennis)	bcprq	bcpo	bcpo	bcpr	55	46	•	0.2	<8.00	0.6	24.00	7.1
Plymouth (Cattewater)	bcprbq	bbcpr	bbcpro	bcbw	54	47	39	Tr.	<8.00	Tr.	<21.00	7.0
Portland Bill	crbc	bc	bcrlp	bc	54	50	•	0.1	<8.00	Tr	24.00	•
Southampton (Calshot)	bcbc	bcq b	bbc	bcr	52	39	39	—	—	0.3	6.30	6.7
Dungeness	cprc	bcqlc	bcbl	bbc	53	43	•	Tr.	<8.00	—	—	•
Guernsey	cicq	bcq	cpc	bcprv	53	48	•	1	<8.00	2	<21.00	5.6

ISALLOBARS

POSITION NUMBERS



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.
1	17th 15h	St. Helier	NW	7	bc+	55	57
2	17th 10h	Cambria	NW'W	7	bc	57	55

GENERAL INFERENCE.

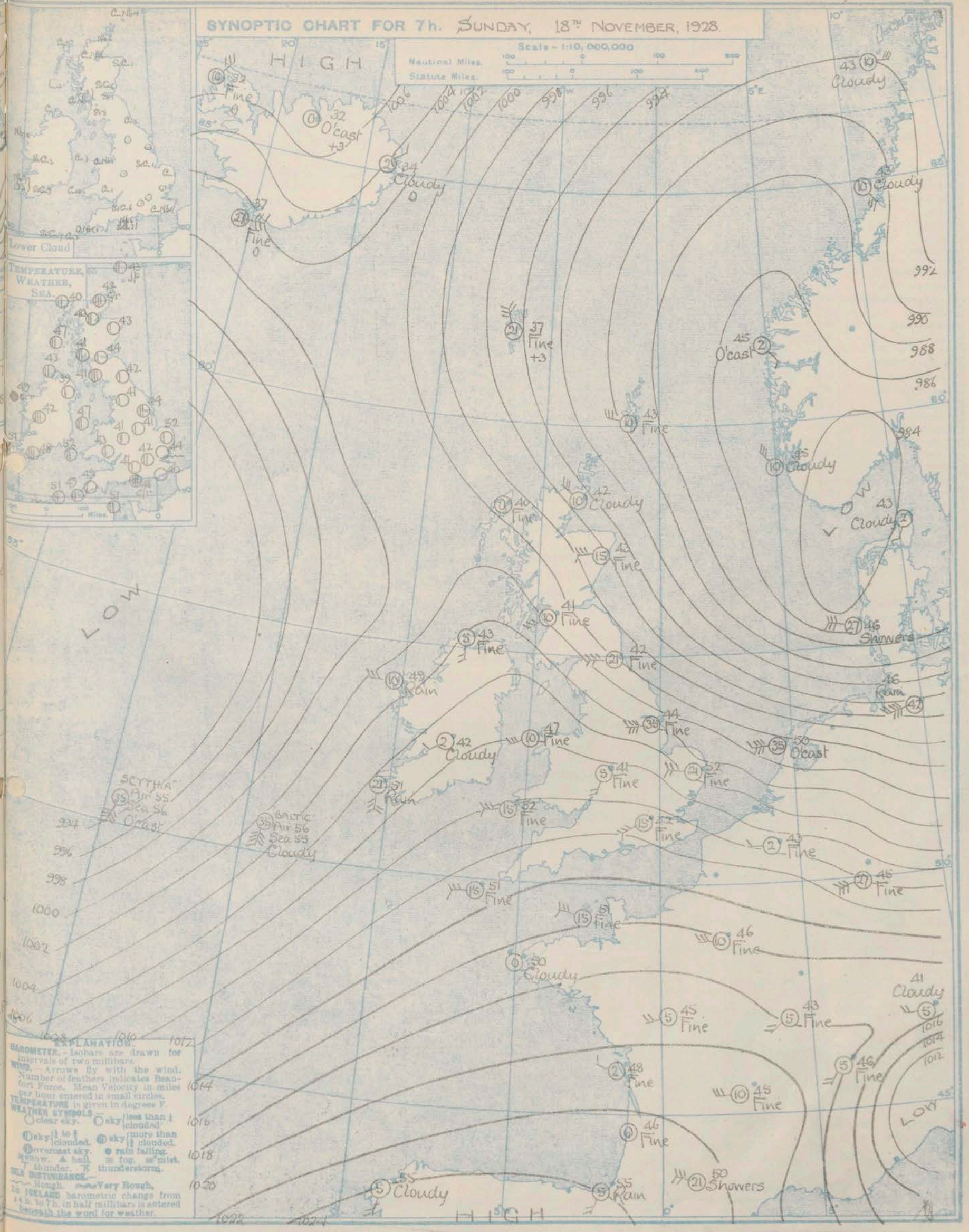
A ridge of high pressure is crossing the British Isles in front of a depression moving eastwards from the Atlantic. After an interval of mainly fair weather over England and Scotland unsettled conditions with a rising temperature will spread slowly in from Western Ireland to all districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 18th November, 1928.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind west, moderate to light; mainly fine, but cloud increasing later; moderate temperature.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind W. moderate, backing and freshening to become strong; fine at first then cloudy; some rain or drizzle later; rising temperature.	Unsettled and mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.	South Cone hoisted at 0300 G.M.T. today in districts 5,6,7,8,12,17,18, 19 and 20; still flying in districts 10,11, 13A,13B,15 and 16.
12. S.W. Scotland & Isle of Man 13 (A. W. Scotland, B. N.W. Scotland)	As 5 - 8.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	As 1 - 4.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S. becoming strong, approaching a gale later on coasts; cloudy, some rain or drizzle; brighter periods later; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 11.0 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page 1

† Trace = rain has fallen, but amount less than 0·1 mm.


SYNOPTIC CHART FOR 7h. SUNDAY, 18TH NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
LOW
Lower Cloud
TEMPERATURE, WEATHER, SEA.
"SCYTHIA" Air 55 Sea 56 O'cast
BALTIC Air 56 Sea 55 Cloudy
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 ¾ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.
Rough. Very Rough.
In ICELAND barometric change from 4 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. Sunday 18th November 1928. No. 323.

Observations at 1h. G.M.T. 18th / Observations at 7h. G.M.T. 18th

Stations	Height above M.S.L. in feet	1h Barom. at M.S.L. mb.	1h Change in 3 Hours	1h Wind Direc.	1h Wind Force 0-12	1h Weather	1h Temp. °F.	1h Humidity %	1h Visibility 0-9	1h Low Cloud Height Feet	1h Low Cloud Form	1h Low Cloud Amt. 0-10	1h Upper Form	1h 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 0-9	7h Low Cloud Height Feet	7h Low Cloud Form	7h Low Cloud Amt. 0-10	7h Upper Form	7h Total Amt. 0-10	Sea 0-9
Lerwick	84	983.4	+6	NW	3	cjp	45	85	7	1500	CuNb	5	ASt	10	990.2	+8	WNW	3	bcjp	43	85	8	1500	CuNb	4	ASt	7	*
Stornoway	30	995.0	+7	NW	4	bcjpR	*	*	7	*	*	*	*	4	999.1	+5	-	0	bc-	40	92	7	4000	Cu	3	-	3	1
Wick	81	989.0	+6	NNW	3	bc	42	85	8	2500	CuNb	6	-	6	998.2	+6	NW	3	cjr	42	92	8	1500	Nb	6	CiSt	8	0
Tiree	28	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.4	+4	NW	4	bc	47	75	8	2500	Cu	4	-	4	4
Nairn	25	*	*	*	*	*	*	*	*	*	*	*	*	*	998.8	*	WNW	1	bc	40	85	8	1500	CuNb	6	-	6	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	997.7	+7	W	4	b	43	75	8	2500	StCu	1	-	1	0
Malin Head	81	1001.7	+6	NW	6	bc/pr0	48	75	7	4000	CuNb	3	-	3	1004.3	+2	S	2	bc+	43	92	8	4000	Cu	1	CiCu	6	5
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.7	+7	SW	3	bc	41	85	8	1500	Cu	4	-	4	*
Edinburgh (Inchkeith)	180	992.6	+7	WSW	6	b	45	75	8	-	-	0	ACu	1	999.2	+7	WSW	5	b	44	75	8	1500	St	1	ACu	2	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	998.5	+9	WNW	5	b	43	75	8	4000	StCu	1	ACu	1	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.2	+6	W'S	3	c	41	75	8	2500	St	8	Ci	9	*
Tynemouth	87	993.0	+5	W	4	b	44	85	8	1500	Cu	2	-	2	1000.6	+9	W	5	b	42	85	7	1500	Cu	2	-	2	2
Blacksod Point	18	1004.8	+1	-	0	b	45	92	7	*	Cu	2	-	2	1003.4	-1	W	3	orr	49	85	7	*	Nb	10	-	10	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.7	+3	W	1	b	39	92	8	4000	StCu	1	-	1	1
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.0	*	SW	1	c+	42	97	6	2500	StCu	2	ASt	10	*
Holyhead	26	1004.5	+5	W	6	b	48	85	8	1500	St	1	-	1	1008.2	+4	WSW	3	bc+	47	85	8	1500	Cu	3	Ci	3	1
Liverpool (Bidston)	182	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.2	+5	W	5	bc	46	85	8	2500	CuNb	1	ACu	7	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.5	+5	W'N	4	bc+	45	75	8	2500	StCu	1	Ci	5	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.0	+9	SW	4	b	41	92	8	-	-	0	ACu	2	*
Spurn Head	29	995.9	+4	W'N	7	bc	46	85	7	4000	Nb	3	-	3	1002.8	+4	W	6	bc	44	86	6	-	-	0	ASt	3	5
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.4	+4	SSW	2	bc	41	85	8	-	-	0	Ci	4	*
Cranwell	238	1000.3	+8	W'S	6	b	43	85	7	2500	StCu	1	-	1	1006.5	+8	W'S	4	b	41	85	7	4000	StCu	1	-	1	*
Gorleston	14	999.0	+5	W	5	b	45	85	7	-	-	0	-	0	1004.9	+6	W'N	4	b	42	75	7	5700	Cu	1	ACu	2	1
Valentia (Cahirciveen) F	30	1010.1	+3	W	3	b/s(h)	50	97	8	*	Cu	2	-	2	1006.3	-5	S	5	or0	51	92	7	1500	Nb	10	-	10	6
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	+2	W	2	c	48	92	8	2300	StCu	9	-	9	2
Pembroke (St. Ann's H.)	160	1006.6	+3	NW	4	bc-	51	85	8	1500	Cu	3	ACu	5	1009.4	+4	W	4	bc+	52	85	8	1500	Cu	4	ASt	6	4
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	+3	W'S	3	b	43	85	8	4000	Cu	1	Ci	2	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	[illegible]	+6	SW	2	bc+	38	85	9	5700	StCu	1	CiSt	5	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.7	+4	SW	2	bc	43	92	8	4000	StCu	6	-	6	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.6	+5	W'S	3	b+	41	92	8	-	-	0	CiCu	2	*
London (Kew Obsy.)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	1010.8	+7	SW'W	4	bc	42	85	8	-	-	0	ACu	5	*
Croydon	244	1005.5	+4	W	4	b	44	85	8	-	-	0	-	0	1010.6	+5	W	4	bc+	43	85	8	-	-	0	CiSt	4	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	+6	WSW	5	b	42	97	7	-	-	0	ACu	2	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.1	+4	WSW	5	b	43	97	7	-	-	0	ACu	1	3
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.8	+4	W	5	b	44	75	8	-	-	0	-	0	6
Lympne	355	1004.7	+3	WSW	4	b	42	85	7	-	-	0	-	0	1010.2	+6	WSW	4	b	40	92	7	-	-	0	Ci	1	*
Scilly (St. Mary's)	163	1011.9	+4	W'N	5	bc	51	85	5	4000	Cu	4	-	4	1013.4	+2	W'S	4	bc	51	75	8	4000	StCu	7	-	7	6
Falmouth (Pendennis)	200	1010.1	+3	W	3	bcjpr0	49	75	7	4000	CuNb	3	-	3	1013.7	+2	W'N	2	bc+	49	85	8	4000	Cu	2	ACu	6	1
Plymouth (Cattewater)	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.5	+3	W	2	b	49	92	8	2500	CuNb	1	ACu	1	1
Portland Bill	32	1007.8	+4	W	6	bc/pr0	51	75	8	2500	StCu	3	-	3	1011.1	+3	W'S	6	bc+	52	75	8	2500	Cu	2	Ci	5	5
Southampton (Calshot)	10	1007.9	+5	W'N	4	bc	44	85	7	4000	StCu	4	-	4	1012.1	+5	W	3	c/r	45	97	7	2500	Nb	9	-	9	0
Dungeness	20	1009.5	+4	W	4	b-	47	85	8	-	-	0	-	0	1010.5	+8	WSW	4	bc+	44	85	8	2500	Cu	2	CiSt	4	3
Guernsey (Fort George) F	295	1011.2	+5	W	4	c+	51	75	7	1500	StCu	10	-	10	1013.2	+4	WNW	4	bc	51	75	9	2500	CuNb	4	ACu	6	4

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 17th NOVEMBER 1928

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 16th to 9h. 17th (4) °F.	Temperature Max. 9h.-17h. 17th (5) °F.	Rainfall† Night 17h.-9h. 16th-17th (6) mm.	Rainfall† Day 9h.-17h. 17th (7) mm.	Sunshine Sunrise to Sunset 17th (8) hr.
Berwick-on-Tweed	bc	c	41	48	trace	-	1.3
Douglas (I. o. M.)	b	bbc	39	48	5	-	6.2
Llandudno	bc	c	45	50	3	-	3.8
Colwyn Bay	bbcb	bbcb	44	49	3	-	4.9
Rhyl	cbc	bcc	43	50	5	-	4.8
Wallasey	bccb	cbcb	44	51	4	trace	3.8
Southport	bc	ophc	43	50	2	0.6	6.0
Blackpool	bcq	bcc	43	50	2	-	4.2
Ilkley	o	c	40	48	1	-	1.1
Cleethorpes	b	bc	40	50	2	-	4.7
Skegness	cbcb	bcc	40	50	3	-	6.2
Aberystwyth	bbc	bcc	46	51	0.5	-	4.1
Bath	bcb	bbc	45	53	5	-	6.5
Cheltenham‡	bbc	bcb	40	56	0.3	trace	5.5
Leamington Spa	b	bc	36	51	trace	-	5.1
Lowestoft	b	b	46	51	1	-	6.9
Harwich & Dovercourt	bc	bc	42	(54)	1	-	6.6
Maldon	bc	b	43	52	1	-	5.7
Southend	mbc	bcb	45	52	0.3	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	q/pbc	bcb	47	54	12	0.3	6.5
Penzance	b	b	48	55	12	-	6.6
Paignton	bcr	bpcb	46	54	8	-	6.9
Torquay	b	b/p	46	55	5	-	7.4
Jersey	cqbc	qbc	43	55	6	2	4.2
Weymouth	b	b	47	55	3	-	4.0
Bournemouth	b	b	46	53	3	-	7.0
Ventnor	orbc	b	46	52	7	trace	7.0
Portsmouth (S'thsea)	b	b	47	52	1	-	6.0
Bognor	b	bcc	47	52	2	-	6.9
Littlehampton	bc	bc	46	52	2	-	6.7
Worthing	bc	bcb	47	52	3	-	6.7
Brighton	bc	bc	45	53	3	-	6.5
Eastbourne	bc	b	49	54	5	-	6.4
Hastings‖	cbcb	bbcb	48	54	3	-	6.2
Folkestone	oircm	bcm	45	51	2	trace	3.8
Dover	cdb	bbcb	46	51	8	trace	4.1
Tunbridge Wells	cbc	bcc	46	51	2	-	4.5
Ramsgate	cbcb	b	46	52	1	-	3.5
Margate	crbc	c	46	51	0.3	trace	4.1
Deal	dobc	cbcb	44	(52)	3	-	4.2

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* Information not usually received. F The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. ‖ 12h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24469 MONDAY, 19th NOVEMBER 1928. Page 1.

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

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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground
Lerwick	993.5	+5	SW	2	bcfp	45	85	8	1500	Cu.Nb.	4	Cu.	7	·
Stornoway	1000.0	-2	–	0	bc	45	85	6	4000	Cu.	3	A.St.	7	·
Wick	999.3	+5	NW	3	c	4? [red correction]	85	8	1500	Cu.Nb.	6	C.St.	8	·
Tiree	1000.3	-2	SE	4	or₀	4? [red correction]	75	6	800	Nb.	10	–	10	/
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1002.5	+6	WSW	3	bcr	46	65	8	2500	Cu.	1	Ci.Cu.	4	/
Malin Head	999.6	-6	SSE	4	crr	44	97	6	4000	Nb.	7	A.St.	10	·
Renfrew	1004.5	0	SSW	2	c	48	85 [red 8]	7	2500	Cu.	3	A.St.	10	2
Edinburgh (Inchkeith)	1003.5	+3	SW	4	c	46	75	7	5700	St.Cu.	4	A.St.	9	·
Leuchars	1003.5	+2	WSW	3	cr	47	75	8	–	–	0	C.St.	8	/
Eskdalemuir	1005.7	0	SW [red]	3	cr	43	75	8	2500	St.	1	A.St.	10	2
Tynemouth	1005.5	+3	W	3	bc	49	75	6	800	St.	3	Ci.	5	2
Blacksod Point	99[7]4	-2	SW	5	dR	55	92	7	*	Nb.	10	–	10	·
Donaghadee	1006.2	-3	SSW	3	crr	45	92	6	1500	Nb.	9	–	9	·
Birr Castle	1003.1	·	S	3	c/r	53	97	6	1500	Nb.	9	–	9	·
Holyhead	1007.8	-2	SW	5	cr₀r₀	50	85	6	2500	Nb.	1	A.St.	10	/
Liverpool (Bidston)	1009.1	+1	WSW	2	cr	50	75	8	2500	Cu.	2	C.St.	8	·
Chester (Sealand)	1008.9	+1	SW/W	3	cr	52	65	8	4000	Cu.	1	A.Cu.	9	/
Harrogate	1008.5	+2 [5]	W/S	3	c	47	75	8	4000	Nb.	9	–	9	·
Spurn Head	1008.5	+3	WSW	4	[red =] bc	48	85	[red 7]	5700	St.Cu.	7	–	7	·
Birmingham (Edgbaston)	1011.5	+1	SW	3	cr	51	65	8	2500	Nb.	7	A.Cu.	8	2
Cranwell	1010.6	+2	W	4	c	49	65	6	–	–	0	Ci.	8	2
Gorleston	1010.4	+4	W/N	4	bcr	50	75	7	–	–	0	A.Cu.	7	0
Valentia (Cahirciveen)	1003.5	-4	SW	5	c	55	85	7	1500	St.	10	–	10	2
Roches Point	1007.1	-4	SW	4	c	53	92	7	1500	St.Cu.	10	–	10	·
Pembroke (St. Ann's H.)	1010.1	-1	SW/W	5	cr	54	97 [red 9]	7	800	St.Cu.	8	A.St.	10	·
Ross-on-Wye	1011.7	+2	SW	2	cr	51	75	7	4000	St.Cu.	7	A.Cu.	9	2
Leafield	1012.5	+4	SW/S	2	c	49	85	8	4000	St.Cu.	6	A.St.	9	2
Winchester (Worthy Dn.)	1013.6	0	WSW	3	bc	52	65	8	5700	St.Cu.	6	C.St.	7	2
S. Farnborough	1013.4	+2	WSW	3	bc	51	85	7	1500	Cu.	2	A.Cu.	5	/
London (Kew Obsy.)	1013.9	+1	W/S	3	c	51	75	6	2500	Cu.	2	A.Cu.	8	/
Croydon	1014.8	+4	WNW	4	cr	(52)	75	6	2500	St.Cu.	4	A.Cu.	8	2
Shoeburyness	1013.2	+2	WSW	3	bcr	51	92	6	4000	St.Cu.	2	A.St.	7	·
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1012.5	+3	W/S	4	bc	52	65	8	2500	Cu.	2	Ci.	5	/
Lympne	1013.4	+1	SW/W	4	bc	52	75	8	1500	Cu.	2	Ci.Cu.	3	/
Scilly (St. Mary's)	1012.5	-1	SSW	5	bc	55	85	7	–	–	0	A.Cu.	6	·
Falmouth (Pendennis)	1013.6	-1	SW/W	4	cr	54	85	8	4000	Cu.	4	A.Cu.	8	·
Plymouth (Cattewater)	1014.6	0	SW	5	cr₀	54	97	8	2500	Nb.	8	A.Cu.	9	2
Portland Bill	1013.9	+2	W/S	6	c	54	75	8	1500	St	7	A Cu	9	·
Southampton (Calshot)	1014.5	+1	W	4	c-	53	65	8	2500	St.Cu.	3	A.Cu.	8	0
Dungeness	1014.0	+2	W	4	bc	55	85	8	2500	St.Cu.	3	Ci.Cu.	4	·
Guernsey (Fort George)	1016.9	0	WNW	4	c	54	75	8	2500	Cu.Nb.	4	A.Cu.	8	·

Observations at 18h. 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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	996.7	+3	SW	1	bc	43	75	8	1500	St.Cu.	3	A.St.	6	·
Stornoway	995.6	-6	S	4	orr	46	85	6	1500	Nb.	10	–	10	3
Wick	999.9	0	WNW	2	bc	39	85	8	2500	St.Cu.	5	–	5	0
Tiree	994.8	-4	SSW	4	orr	50	97	5	220	Nb.	10	–	10	4
Nairn	999.0	*	–	0	cr	41	85	8	1500	St.	8	–	8	*
Aberdeen	1001.8	-1	S	2	cr₀	44	85	6	2500	Nb.	5	A.St.	9	0
Malin Head	996.2	-2	S	5	bcr	52	97	7	5700	St.Cu.	6	–	6	4
Renfrew	1000.0	-4	E	3	orr	46	97	6	1500	Nb.	10	–	10	·
Edinburgh (Inchkeith)	1000.1	(-5)	S	1	or₀r₀	45	85	8	1500	Nb.	10	–	10	0
Leuchars	1001.7	-3	–	0	or₀r₀	44	92	6	1500	Nb.	10	–	10	·
Eskdalemuir	1002.3	-4	SSW	5	orr	46	97	6	800	Nb.	10	–	10	·
Tynemouth	1004.6	-1	SW	2	bc	47	85	6	800	St.	3	Ci.	5	/
Blacksod Point	995.6	-1	SW	7	c	55	85	7	*	Cu.Nb.	10	–	10	7
Donaghadee	1002.6	-1	SW	4	cr₀	51	92	7	1500	Nb.	8	–	8	3
Birr Castle	1004.4	*	S	3	c/r	53	92	6	1500	Nb.	9	–	9	*
Holyhead	1005.8	-2	SSW	5	c	54	92	6	800	St.	9	A.St.	10	4
Liverpool (Bidston)	1006.7	-2	SW	5	c	52	75	8	2500	St.Cu.	8	–	8	·
Chester (Sealand)	1007.3	-2	SW/S	4	c	54	75	7	2500	St.Cu.	10	–	10	·
Harrogate	1007.2	-1	SSW	3	od	47	85	5	4000	Nb.	10	–	10	·
Spurn Head	1008.8	0	SSW	3	bc-	48	85	6	4000	Cu.Nb.	5	–	5	3
Birmingham (Edgbaston)	1010.6	-1	SSW	4	bcr	49	85	6	2500	Cu.	5	Ci.St.	7	·
Cranwell	1010.7	0	S/W	3	c	47	85	6	–	–	0	A.Cu.	8	·
Gorleston	1012.4	+1	SSW	3	cr	47	85	7	4000	St.Cu.	4	A.St.	9	0
Valentia (Cahirciveen)	998.9	-5	S	6	c	55	85	7	1500	St.	10	–	10	5
Roches Point	1004.3	-2	SW	4	c	54	92	7	1500	Cu.Nb.	9	–	9	6
Pembroke (St. Ann's H.)	1008.2	-2	SW	5	od₀	54	92	5	800	St.	10	–	10	4
Ross-on-Wye	1011.2	0	SW	3	bc-	49	85	8	4000	St.Cu.	1	Ci.	6	·
Leafield	1011.9	0	SSW	4	bc	47	85	8	5700	St.Cu.	1	A.Cu.	4	·
Winchester (Worthy Dn.)	1013.9	0	SSW	3	bc	49	85	8	4000	St.Cu.	6	Ci.St.	7	·
S. Farnborough	1013.6	0	SW/S	3	c-	49	85	8	–	–	0	Ci.St.	8	·
London (Kew Obsy.)	1014.2	0	SW	4	cr	50	85	5	2500	St.	7	A.St.	9	·
Croydon	1014.0	+1	SW/W	4	cr	50	75	6	2500	St.Cu.	4	A.Cu.	8	·
Shoeburyness	1013.8	+1	WSW	2	c	51	92	6	4000	St.Cu.	9	–	9	·
Clacton-on-Sea	1013.4	+1	SW	4	c	49	85	6	4000	St.Cu.	8	–	8	3
Felixstowe	1013.8	+2	SSW	3	c	49	85	7	4000	St.Cu.	9	–	9	2
Lympne	1014.8	+1	SW	2	c	47	85	8	–	–	0	A.Cu.	9	·
Scilly (St. Mary's)	1011.2	-2	S/W	5	bc	53	97	7	4000	St.Cu.	5	–	5	5
Falmouth (Pendennis)	1011.5	-2	SW	5	cr	54	85	7	4000	St.Cu.	8	–	8	2
Plymouth (Cattewater)	1013.3	-2	SW	5	cr₀	54	97	7	800	Nb.	9	A.St.	10	4
Portland Bill	1013.4	0	WSW	5	bc	55	85	8	1500	St.	6	–	6	6
Southampton (Calshot)	1014.3	0	W/SW	4	cr	52	85	8	2500	Nb.	6	A.Cu.	8	0
Dungeness	1014.6	+1	W	3	cr	53	85	8	4000	St.Cu.	8	–	8	2
Guernsey (Fort George)	1016.7	0	SW/W	3	cv	54	85	9	2500	St.Cu.	8	–	8	3

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 hours ended 9h)	Temp. Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 18h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cmbc	cm₀	cmbcb	53	49	45	–	0.4	3.4	*	*	7
Croydon	244	cbcm₀	cbcm₀	cbcmc	53	49	49	–	0.2	2.5	*	*	6
Greenwich (Royal Obsy.)	149	cbcb	bc	[illegible]	54	48	41	–	1	*	77	90	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	3.5	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	55	45	42	0.6	*	3.4	60	83	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	3.0	*	*	*
Camden Square	136	cbcc	c	*	53	44	*	–	1	*	*	88	*
Kensington Palace	80	bcc	co	*	54	49	41	–	1	*	(At 18h.) 79	93	*
Hampstead Observatory	450	*	*	*	51	49	35	Tr	1	4.0	*	99	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre. 24 Hr. ended 7h. G.M.T. 19th

	Max.	Time	Min.	Time
South Kensington	0.6	18h 18h	<0.3	19h 3h
Kew Observatory	0.2	18h 17h	<0.1	19h 3h

POLE STAR RECORD at Greenwich Obsy. Exposure from 18th 17h. 0m. to 19th 06h. 30m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13 30	3 55	29
δ Ursae Minoris	15 30	3 18	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 13h. and 18h. reports (Hour 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. 13th & 20th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.24 / 7.26	11.38 / 11.39	15.52 / 15.51
Greenwich	7.26 / 7.28	11.45 / 11.46	16.4 / 16.3
Wick	8.12 / 8.15	11.53 / 11.53	15.42 / 15.41
Valentia	8.9 / 8.11	12.26 / 12.27	16.43 / 16.42

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 300—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. r₀ = slight rain. rr = continuous rain.

SYMBOLS.
< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. Ɯ = 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:—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, 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.

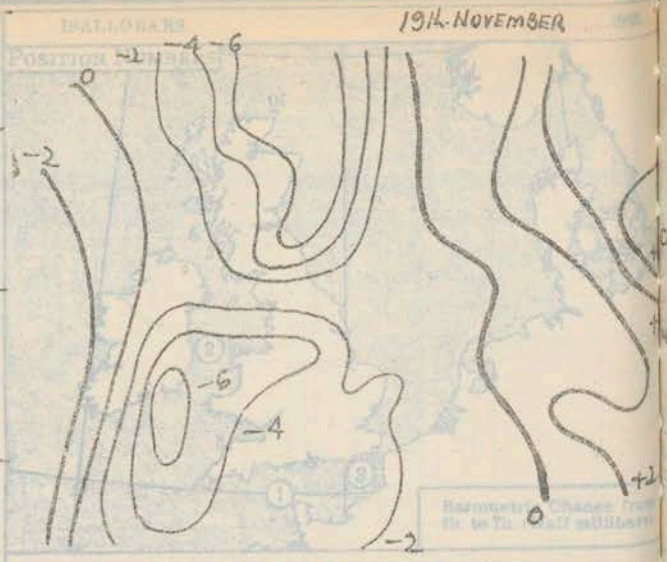
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent 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. 18th	Weather. 13h.-18h. 18th	Weather. 18h. 18th to 18h. 19th	Weather. 18h.-7h. 19th	Temperatures. Max. Day. 7h.-18h.	Temperatures. Min. Night. 18h.-7h.	Temperatures. Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 18th Hours.
Lerwick	bcpr	bcpr	cbc	bcc	45	40	•	3	18·00	–	–	1·1
Stornoway	bcprbc	bcorr	c	cor	46	43	•	3	?	9	21·00	1·5
Wick	ciRc	b-bc	crrc	crrc	45	38	•	0·3	9·00	1	21·00	•
Tiree	bcar	rrm	brcq	brcq	50	50	49	7	11·00	6	21·00	0·0
Nairn	bc	bac	cpr	qbc	43	40	•	–	–	3	21·00	3·0
Aberdeen	bbc	bcar	crrmcq	cmirrq	47	43	40	Tr.	17·30	4	21·00	4·5
Malin Head	bcarrm	crr	bcpbcr	ocr	52	50	•	3	9·00	3	21·00	0·0
Renfrew	bcapc	crorr	orrcq	corRc	48	46	46	3	9·00	12	21·00	0·5
Edinburgh (Inchkeith)	bbcc	corr	rroc	cor	47	45	43	1	16·30	1	21·00	1·0
Leuchars	bbc	cmrrr	crc	ccrr	47	43	42	1	16·30	4	21·00	3·1
Eskdalemuir	c	cerrm	orrmorm	orrm	46	45	45	tr	14·30	19	21·00	1·0
Tynemouth	bbcq	bc	bc	bcoir	49	47	43	–	–	2	04·30	•
Blacksod Point ...	R	Rc	Pqo	Roc	56	49	•	13	•	16	•	•
Donaghadee	crrr	rrir	cirq	circ	51	50	•	tr	11·00	2	21·00	•
Birr Castle	orr	cir	coir	cir	53	52	49	2	08·00	2	21·00	0·0
Holyhead	bcar	ird	rcrm	dd irm	54	53	51	1	11·00	4	21·00	1·3
Liverpool (Bidston) ...	bcbbc	pc	prR	Rcr	52	50	46	Tr.	13·30	3	21·00	3·5
Chester (Sealand) ...	bac	c	cbc	cd	54	51	48	–	–	Tr	05·30	3·4
Harrogate	bbac	cord	ocr	ocir	48	47	45	Tr.	13·30	1	21·00	1·1
Spurn Head	bc	bcapr	oc	orroc	49	47	•	Tr.	16·30	3	03·30	0·9
Birmingham (Edgbaston)	bc	cbc	bcc	cor	52	47	46	–	–	0·4	01·30	3·4
Cranwell	cbc	c	c	crc	50	41	43	–	–	2	03·30	4·1
Gorleston	bbcq	bcq	cbc	bcorrq	53	46	43	–	–	0·2	04·30	5·7
Valentia (Cahirciveen)	circ	c	coror	coR	56	51	49	1	18·00	18	21·00	0·0
Roches Point	circ	circ	corr	orro	55	54	•	1	18·00	6	21·00	•
Pembroke (St. Ann's H.)	cq	cmqid	cqrrm	chrmq	54	53	•	Tr.	17·30	7	22·00	0·0
Ross-on-Wye	bbcc	c	bbco	orod	53	49	46	–	–	1	02·30	2·9
Leafield	bc	c	cbcd	bcer	49	45	43	–	–	1	22·00	3·3
Winchester (Worthy Dn)	bc	bc	bcc	cddm	54	48	44	–	–	3	24·00	3·5
S. Farnborough ...	bcbc	bac	cbbc	codd	54	49	44	–	–	0·6	04·30	5·3
London (Kew Obsy.) ...	cwbc	cm	cmrc	cipc	53	49	45	–	–	0·1	03·30	3·4
Croydon	cbcm	cbcm	cbc3w	bcrr	53	49	44	–	–	0·2	05·30	2·5
Shoeburyness	bbcm	bccm	cm	oirm	52	48	46	–	–	0·1	06·30	7·1
Clacton-on-Sea ...	bbc	bac	c	cor	52	47	40	–	–	1	05·30	6·0
Felixstowe	bc	cz	cbc	bcrr	52	49	46	–	–	0·3	04·30	7·0
Lympne	bc	bac	cbc	ocrm		47		–	–	Tr	06·30	7·1
Scilly (St. Mary's) ...	bc	bc	bccor	omk	55	53	•	–	–	1	21·00	3·4
Falmouth (Pendennis)	bcc	cbc	ormrrq	ormq	55	53	•	–	–	2	21·00	2·3
Plymouth (Cattewater)	bqcr	crq	cqr	crqm	55	53	53	Tr.	12·30	3	21·00	2·2
Portland Bill	bcc	cbc	bcc	orc	55	53	•	–	–	2	03·30	•
Southampton (Calshot)	bcc	cpr	cprbc	corrr	54	51	48	Tr.	16·30	1	21·00	3·9
Dungeness	bbc	bac	cbc	bccr	55	52	•	–	–	Tr	06·30	•
Guernsey	bapr	cv	cbcbq	bbcoirq	55	52	•	Tr.	18·00	1	04·30	1·6



Observations from Cross Channel Steamers

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

GENERAL INFERENCE.

A depression centred between Scotland and Iceland is moving northeast. Winds will be southerly veering later to westerly, strong to a gale at first, moderating gradually. Weather will be cloudy with rain at first but with brighter periods later. Temperature will be rather high for the time of year.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 19th November, 1928.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh to strong southerly winds, reaching gale force at times on the coast, veering to southwest to west; cloudy with rain, fair periods later; moderate to rather high temperature.	
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	South to southwest winds, strong to a gale veering to westerly; cloudy with rain at first, fair periods later; coastal mist or fog at first; moderate to rather high temperature.	Continuing unsettled.
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	Southerly winds strong to a gale, veering to southwest to west, cloudy with rain at first, fair periods later; moderate to rather high temperature.	South Cone hoisted at 18h.45m. yesterday in districts 1 and 2; still flying in districts 5,6,7, 8,10,11,12,13,15, 16,17,18,19 and 20.
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland	South to southeast winds, strong to a gale veering to southwest; cloudy with rain at first, fair periods later, moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Southwesterly winds, strong to a gale, veering to westerly; showers, bright periods, moderate temperature.	

R.S.R.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. C. Simpson, F.R.S., Director.

† For mode see page 1

Trace = rain has fallen, but amount less than 0·1 mm.

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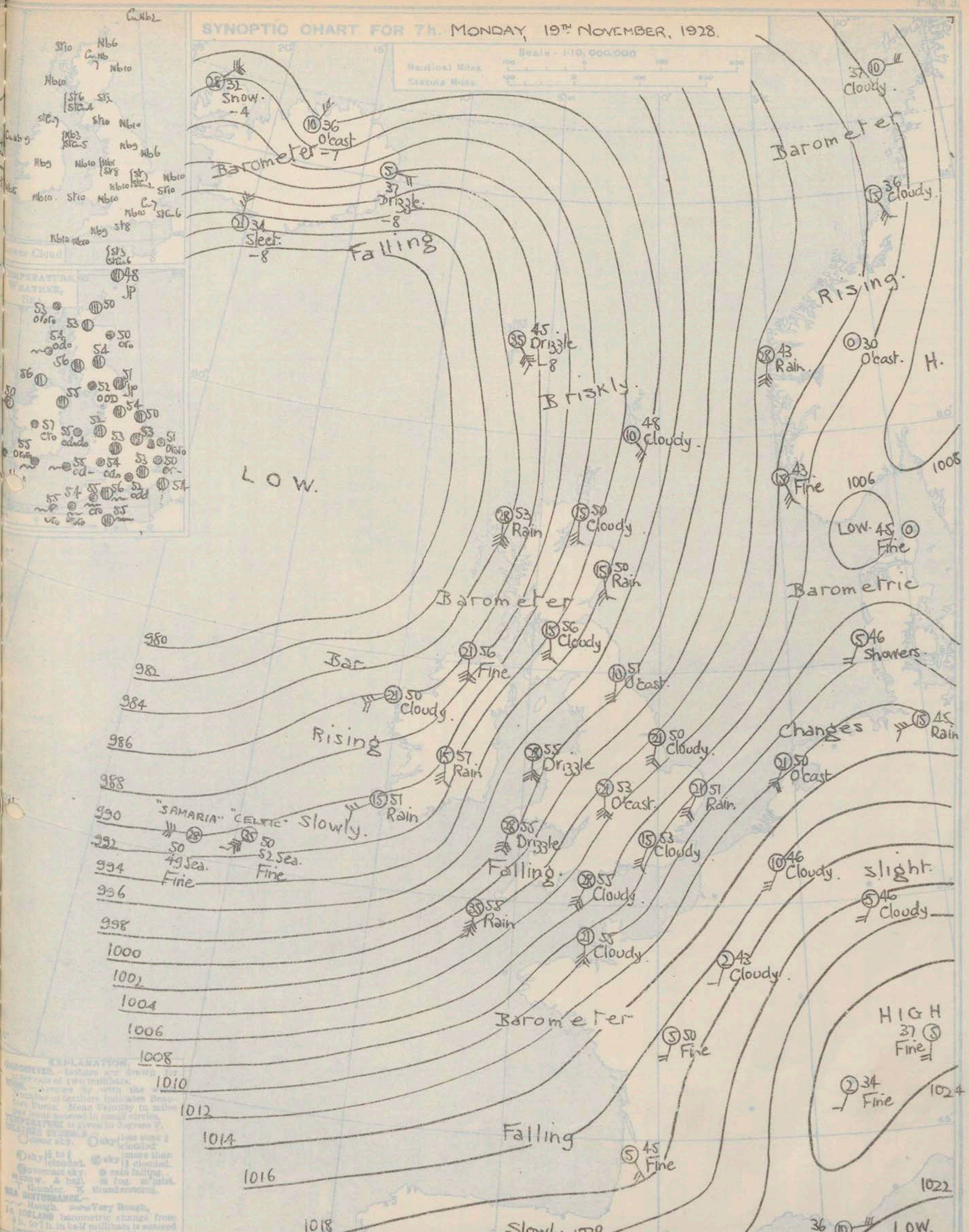

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...Monday, 19th November..........1928. No. 324...

Stations	Height above M.S.L. in feet	Obs. at 1h. G.M.T. 19th: 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	Obs. at 7h. G.M.T. 19th: 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	Sea 0-9
Lerwick	54	997.4	0	SE	1	bc	45	75	8	1500	Cu	3	–	3	992.3	-6	SE	3	c/p	48	97	8	1500	CuNb	2	ASt	10	*
Stornoway	30	992.0	-3	S	6	c	*	*	6	*	*	*	*	10	983.2	-3	S	6	or₀	53	92	6	2500	St	10	–	10	5
Wick	31	994.8	-4	S	4	c	47	92	8	1600	Nb	4	ASt	8	989.8	-6	S	4	c	50	92	8	1500	Nb	6	ASt	10	3
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*	985.1	-1	SW	6	od₀	54	97	7	1500	Nb	10	–	10	6
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	988.0	*	W	2	bc	53	85	8	2500	CuNb	7	–	7	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	993.5	-5	SSE	4	or₀	50	92	5	1500	Nb	10	–	10	4
Malin Head	61	989.8	-10	SSE	6	orr	61	97	6	4000	Nb	10	–	10	985.7	-2	S	5	bc/r	56	97	7	4000	StCu	7	–	7	4
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	992.1	-3	S	4	c/r	56	92	8	450	St	10	–	10	*
Edinburgh (Inchkeith)	100	999.2	-1	SW	4	c	45	85	8	1500	St	5	ASt	9	993.0	-7	S	4	c	54	85	8	1500	St	2	ASt	10	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	992.2	-3	SE	4	c/r	52	92	8	2500	Nb	9	–	9	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	993.5	-5	SW'S	7	odd	52	97	4	450	St	10	–	10	*
Tynemouth	67	1001.2	-2	SW	3	bc₀	52	85	7	1500	Cu	4	Ci	6	997.6	-4	S	3	o/p	51	92	7	1500	Nb	10	–	10	1
Blacksod Point	18	985.8	-6	SW	8	c	55	97	6	*	–	0	ASt	10	986.1	+1	WSW	5	c	50	92	7	*	CuNb	9	–	9	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	992.4	-1	SSW	6	c-	55	85	8	2500	StCu	8	–	8	5
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	989.0	*	S	4	cr₀	57	85	6	1500	Nb	9	–	9	*
Holyhead	26	1002.3	-7	SSE	6	cd₀	53	92	5	800	St	8	ASt	10	996.5	-4	S	6	odd₀	55	97	5	800	Nb	10	–	10	4
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	998.1	-4	SSE	4	c/r	52	97	7	4000	St	9	–	9	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	998.9	-4	S'E	4	c/r	53	97	7	450	St	3	ASt	9	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	999.6	-2	S'E	5	c	54	85	6	2500	Nb	9	ASt	10	*
Spurn Head	29	1007.1	-1	S'W	5	c	48	92	7	4000	CuNb	9	–	9	1003.3	-2	S'W	6	c	50	97	7	4000	Nb	6	ASt	10	3
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-2	S	5	o	53	92	8	800	Nb	10	–	10	*
Cranwell	236	1009.8	-2	S	3	c+	49	85	6	–	–	0	ASt	9	1007.4	-4	S	5	c/r	53	92	6	800	St	9	–	9	*
Gorleston	14	1011.4	-1	SSW	4	bc	49	92	7	–	–	0	ASt	5	1008.6	-3	SSW	5	or₀r₀	51	97	6	1500	Nb	10	–	10	1
Valentia (Cahirciveen) P	30	991.5	-6	S	7	oRR	56	97	6	*	St	10	–	10	990.6	+2	WSW	4	cr₀	51	97	6	1500	Nb	5	ASt	10	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	992.4	-6	SW	6	or₀r₀	(55)	97	6	800	Nb	10	–	10	7
Pembroke (St. Ann's H.)	150	1001.4	-6	SSW	7	oRR	54	97	5	450	St	10	–	10	996.8	-4	SSW	6	od-	55	97	4	220	St	10	–	10	6
Ross-on-Wye	226	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.4	-2	S'W	4	od₀	54	92	6	2500	Nb	10	–	10	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.1	-3	S'W	5	od₀	52	97	8	1500	Nb	10	–	10	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	-3	S	5	cdd	52	97	6	800	Nb	10	–	10	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.3	-3	SSW	4	odd	52	97	6	450	Nb	10	–	10	*
London (Kew Obsy.)	18	*	*	*	*	*	51	*	*	*	*	*	*	*	1008.7	-3	SSW	4	c/r	53	92	7	1500	Cu	7	ASt	10	*
Croydon	244	1012.1	-3	SW	4	bc-	50	85	8	2500	StCu	1	CiSt	4	1009.2	-3	SW'S	5	cdd	53	92	5	450	Nb	10	–	10	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	-3	S'W	3	cr₀	52	97	6	1500	StCu	10	–	10	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	-2	SSE	6	or	50	97	6	2500	St	10	–	10	3
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.1	-2	SSW	5	cr₀	51	92	7	1500	StCu	10	–	10	3
Lympne	300	1013.2	-3	S'W	4	bc-	50	92	7	2500	StCu	3	–	3	1011.3	-3	S'W	5	cr₀	51	92	6	1500	St	7	ASt	10	*
Scilly (St. Mary's)	162	1006.0	-7	S'W	7	or₀r₀	54	97	6	2500	Nb	10	–	10	1001.4	-3	S'W	7	or₀	55	97	6	2500	Nb	10	–	10	7
Falmouth (Pendennis)	206	1006.0	-5	SSW	6	orr	64	97	6	2500	Nb	10	–	10	1002.4	-4	SSW	7	or₀r₀	54	97	6	2500	Nb	10	–	10	6
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	-3	SW	7	cr₀	55	97	6	450	Nb	9	ASt	10	6
Portland Bill	32	1009.9	-4	SSW	6	o	55	92	8	2500	Nb	10	–	10	1005.5	-3	SSW	6	c	56	85	8	1500	St	8	ASt	10	7
Southampton (Calshot)	10	1011.4	-4	SW'S	5	o	53	85	7	1500	Nb	9	–	9	1008.7	-3	SW'S	6	or₀r₀	53	92	5	800	Nb	10	–	10	3
Dungeness	20	1013.0	-2	SW	5	bc+	53	85	8	2500	Cu	5↑	–	5↑	1010.1	-3	SW	6	c/r	54	85	8	2500	StCu	6	ASt	10	5
Guernsey (Fort George) P	280	1012.8	-3	S	4	c+	54	85	8	4000	StCu	10	–	10	1010.4	-3	S	5	c+	55	85	7	2500	StCu	9	–	9	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR...18th November....

Stations (1)	Weather: Forenoon (2)	Weather: Afternoon (3)	Temperature: Min. 9h. 17th to 9h. 18th (4) °F.	Temperature: Max. 9h.-17h. 18th (5) °F.	Rainfall: Night 17h.-9h. 17th-18th (6) mm.	Rainfall: Day 9h.-17h. 18th (7) mm.	Sunshine: Sunrise to Sunset 18th (8) hr.
Berwick-on-Tweed	bc	co	44	48	–	–	2.4
Douglas (I. o. M.)	bcobc	rr	42	52	–	3	1.7
Llandudno	bcc	c	45	56	–	–	2.2
Colwyn Bay	bbc	cbcc	45	54	–	–	3.5
Rhyl	bc	bc	44	53	–	–	2.5
Wallasey	bbcc	cop₀	46	53	–	Trace	2.2
Southport	bbccd	cop₀c	47	51	–	0.1	2.5
Blackpool	cbc	coro	47	52	–	1	2.4
Ilkley	bcc	or	42	51	0.3	0.5	2.4
Cleethorpes	bc	c	42	50	–	–	3.5
Skegness	bbc	bcv	40	49	Trace	–	4.0
Aberystwyth	cp₀	co	42	54	–	Trace	2.2
Bath	p₀cbc	cbc	40	54	Trace	Trace	2.2
Cheltenham‡	bc	c	38	53	0.3	–	3.0
Leamington Spa	c	c	37	53	–	–	4.0
Lowestoft	b	bbcc	41	50	–	–	5.6
Harwich & Dovercourt	bc	bc	42	54	–	–	7.4
Maldon	b	b	40	53	–	–	6.5
Southend	b	bbco	40	53	–	–	?
Bude	cbcc	bcc	49	57	1	–	3.3
Penzance	cb	bc	50	55	0.2	–	3.0
Paignton	rpbcr	bcc	44	56	1	–	2.6
Torquay	b	bcc	46	58	0.6	–	2.2
Jersey	c	c	48	55	12	–	0.7
Weymouth	bbc	bcc	46	57	1	–	2.7
Bournemouth	c	c	42	54	–	–	3.4
Ventnor	bcb	bbc	46	55	–	–	3.8
Portsmouth (S'thsea)	b	bbc	45	55	–	–	4.6
Bognor	b	bcabc	44	55	–	–	4.6
Littlehampton	bc	bc	41	54	–	–	3.8
Worthing	bc	cbcc	40	54	–	–	4.1
Brighton	c	c	44	55	–	–	3.9
Eastbourne‡	cbc	bcc	45	55	–	–	4.2
Hastings‡	bcabc	bbcc	41	54	0.1	–	6.6
Folkestone	bcm₀	bcc	39	54	–	–	6.9
Dover	bcb	bbc	43	54	–	–	7.2
Tunbridge Wells	bcc	bc	42	54	–	–	4.4
Ramsgate	b	b	42	54	–	–	7.5
Margate	bc	bc	44	53	–	–	7.5
Deal	b	bbc	42	52	–	–	7.3

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* Information not usually received. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are from an auxiliary station. ‡ For code see page 1. †‡ See inclusive page 1.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION. No. B 24470 Tuesday 20th November 1928.

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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	State of Ground
Lerwick	9891	-5	SE	3	odo	50	97	7	1500	Nb	10	-	10	*
Stornoway	9836	+2	SW	3	c	50	85	6	2500	St	9	-	9	*
Wick	9874	-3	S	3	c	52	92	8	2500	Nb	6	ASt	10	*
Tiree	9867	+2	WS	5	orr	48	85	6	800	Nb	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	9901	-4	S	4	c	54	92	6	1500	Nb	7	ASt	10	2
Malin Head	9884	+2	SW	4	cjp	48	92	8	4000	CuNb	1	ASt	9	*
Renfrew	9880	-7	SSW	5	cro	57	85	8	450	St	10	-	10	2
Edinburgh (Inchkeith)	9903	-3	SW	5	c	57	75	8	1500	St	3	ASt	10	*
Leuchars	9904	-5	S	4	c	56	85	8	1500	St	9	ASt	10	2
Eskdalemuir	9907	-6	SW	7	orr	53	97	6	800	St	10	-	10	2
Tynemouth	9940	-4	S	4	o	56	85	7	1500	Nb	10	-	10	*
Blacksod Point	9857	+1	WSW	4	c	49	85	8	-	CuNb	9	-	9	*
Donaghadee	9906	-2	W	4	cr	49	85	7	2500	Nb	8	-	8	*
Birr Castle	9921	*	S	2	cjr	48	92	6	1500	Nb	9	-	9	*
Holyhead	9926	-6	S	6	ojc	55	92	6	800	St	9	ASt	10	2
Liverpool (Bidston)	9959	-4	SSE	4	cro	55	92	8	1500	SC	10	-	10	*
Chester (Sealand)	9962	-4	SSE	4	odd	55	97	6	800	St	10	-	10	1
Harrogate	9977	-1	SSE	4	c	56	85	7	2500	Nb	9	ASt	10	*
Spurn Head	10009	-2	SSW	6	c	54	92	7	4000	CuNb	10	-	10	*
Birmingham (Edgbaston)	10009	-4	SSW	5	odo	54	85	7	1500	Nb	10	-	10	2
Cranwell	10030	-1	S	5	c	55	85	7	800	SC	10	-	10	1
Gorleston	10067	-2	SSW	5	of	53	92	6	2500	Nb	10	-	10	*
Valentia (Cahirciveen)	9944	+3	SW'W	5	bc	51	65	8	2500	Cu	3	CiCu	6	2
Roches Point	9955	+4	SW	3	c	50	85	8	1500	SC	9	-	9	*
Pembroke (St. Ann's H.)	9937	-5	SSW	7	orr	55	92	4	450	Nb	10	-	10	*
Ross-on-Wye	10002	-5	SW	5	o	55	85	7	2500	Nb	10	-	10	2
Leafield	10024	-4	S	6	odo	53	92	8	800	St	10	-	10	2
Winchester (Worthy Dn.)	10052	-4	S	5	c	54	92	7	1500	St	9	-	9	2
S. Farnborough	10057	-4	SW	5	cjr	55	85	7	4000	SC	8	CiSt	9	2
London (Kew Obsy.)	10065	-5	SSW	5	c	57	75	7	2500	Cu	1	ACu	9	1
Croydon	10067	-5	SSW	5	cjd	56	75	7	1500	St	4	CiSt	8	2
Shoeburyness	10083	-2	SSW	5	cjr	54	97	8	2500	SC	6	ASt	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	10084	-3	SW	5	c	52	92	7	4000	SC	7	ACu	9	1
Lympne	10098	-3	SE	5	c	53	92	6	800	St	8	ASt	10	1
Scilly (St. Mary's)	9985	-3	WS	6	orr	51	97	6	2500	Nb	10	-	10	*
Falmouth (Pendennis)	9960	-3	SW	8	or	56	85	6	2500	Nb	10	-	10	*
Plymouth (Cattewater)	10007	-7	S	8	crr	56	97	6	450	Nb	9	ASt	10	2
Portland Bill	10034	-4	S	6	o	57	85	6	1500	St	10	-	10	*
Southampton (Calshot)	10059	-5	SSW	5	c	56	75	7	1500	SC	7	ASt	9	1
Dungeness	10091	-4	SSW	5	cjr	54	86	8	2500	SC	7	ASt	10	*
Guernsey (Fort George)	10027	-4	S	6	c	55	92	7	1500	SC	7	ASt	9	*

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	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	9854	-4	SE	3	cjp	51	97	7	1500	CuNb	5	ASt	10	*
Stornoway	9836	-1	S	4	cjr	48	85	6	2500	St	8	-	8	3
Wick	9869	+4	WNW	2	orr	46	97	7	1500	St	10	-	10	3
Tiree	9872	0	WS	6	bcjp	49	75	8	1500	CuNb	2	CiCu	5	4
Nairn	9866	*	-	0	cjr	45	85	7	1500	CuNb	9	-	9	*
Aberdeen	9877	-2	SSE	4	*	53	92	5	1500	Nb	10	-	10	1
Malin Head	9895	-2	S	5	bc	47	85	8	5700	SC	7	ACu	3	4
Renfrew	9915	+3	W	4	cjr	46	92	7	1500	St	6	ASt	9	*
Edinburgh (Inchkeith)	9901	+1	SW	4	orr	46	85	8	800	Nb	10	-	10	2
Leuchars	9894	+4	SW	4	cjpro	47	85	8	2500	StCu	7	ASt	10	*
Eskdalemuir	9927	+6	WS	4	orr	43	85	6	1500	St	10	-	10	*
Tynemouth	9906	-4	SSW	5	o	55	85	7	1500	Nb	10	-	10	2
Blacksod Point	9901	+1	NW	6	cjPH	51	75	8	*	CuNb	9	-	9	6
Donaghadee	9941	+4	WS	2	c	46	85	7	4000	SC	3	ASt	8	2
Birr Castle	9956	*	SW	4	bc	45	85	7	1500	CuNb	3	-	3	*
Holyhead	9979	+8	SW	5	c	50	75	7	2500	St	9	-	9	5
Liverpool (Bidston)	9962	+7	W	6	oR	46	92	7	4000	Nb	10	-	10	*
Chester (Sealand)	9972	+8	WN	4	orr	47	85	5	450	Nb	10	-	10	*
Harrogate	9930	-3	SSE	6	orr	53	92	5	2500	Nb	10	-	10	*
Spurn Head	9969	-3	S	7	c	53	85	6	4000	CuNb	8	ASt	10	4
Birmingham (Edgbaston)	9996	0	W	5	oR	48	85	7	800	Nb	10	-	10	*
Cranwell	9984	-4	S	6	cjr	54	82	7	800	St	10	-	10	*
Gorleston	10042	-2	S	6	c	52	92	7	1500	Nb	9	-	9	4
Valentia (Cahirciveen)	9985	-6	WS	5	c	50	75	8	1500	St	8	-	8	5
Roches Point	10004	+6	W	4	bc	47	92	8	1500	CuNb	3	-	3	6
Pembroke (St. Ann's H.)	9999	+6	W	3	cjPR	53	75	6	1500	CuNb	6	ACu	8	4
Ross-on-Wye	10018	+4	W	3	c	48	75	9	2500	SC	10	-	10	*
Leafield	10008	-2	WSW	6	cjPR	49	92	7	1500	Nb	9	-	9	*
Winchester (Worthy Dn.)	10035	0	SW'W	6	c	53	85	8	1500	StCu	9	-	9	*
S. Farnborough	10020	-3	SW	6	ojpc	54	85	7	800	St	10	-	10	*
London (Kew Obsy.)	10025	-4	SW	5	cjr	55	75	7	2500	St	6	ASt	9	*
Croydon	10036	-4	SSW	6	cjr	54	75	6	1500	St	3	ASt	10	*
Shoeburyness	10048	-3	SWS	5	c	52	97	8	800	Nb	10	-	10	*
Clacton-on-Sea	10050	-3	SSE	6	bc	52	85	7	-	-	0	ACu	4	4
Felixstowe	10052	-2	SW	6	c	52	85	7	2500	SC	7	ACu	10	6
Lympne	10068	-2	SE	6	c	53	85	7	2500	Nb	4	ASt	10	*
Scilly (St. Mary's)	10066	+4	WSW	6	b	51	75	7	4000	Cu	1	-	1	6
Falmouth (Pendennis)	10063	+3	WNW	5	bc	51	75	8	4000	Cu	4	-	4	1
Plymouth (Cattewater)	10065	+7	W	5	b	50	85	7	2500	CuNb	<1	Ci	1	2
Portland Bill	10046	+5	WS	6	bc	52	75	8	1500	St	4	-	4	7
Southampton (Calshot)	10035	0	WS	6	bc	53	75	7	1500	Nb	3	-	3	6
Dungeness	10058	-6	S	6	cjp	55	85	8	2500	Nb	5	ASt	10	5
Guernsey (Fort George)	10090	+7	WSW	5	cv	52	85	9	1500	CuNb	5	ACu	9	7

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 (24 hours ended 9h)	Temp. Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	c	cbc	b.bc	57	44	37	0.5	Tr	0.2	*	*	5
Croydon	244	cdo	crnm	crrb	57	44	39	1	Tr	0.6	*	*	4
Greenwich (Royal Obsy.)	149	c	cper	cqbuu	58	45	35	0.3	Tr	0.3	81	78	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.1	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	58	47	43	-	-	0.2	78	76	*
Regent's Pk. (Botanic Gdns.)	108	*	*	*	*	*	*	*	*	0.1	*	*	*
Camden Square	110	c	ccpc	*	55	47	*	0.3	-	*	*	80	*
Kensington Palace	80	co	c	*	57	46	35	0.5	-	*	(At 18h) 75	77	*
Hampstead Observatory	450	*	*	*	55	42	32	0.5	-	0.1	*	87	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre. 24 Hrs. ended 7h. G.M.T. 20th

South Kensington			
Max.	Time.	Min.	Time.
Defective		record.	

Kew Observatory			
Max.	Time.	Min.	Time.
0.2	20d 7h	<0.1	20d 2h

Pole Star Record at Greenwich Obsy. Exposure from 19th 17h. 50m. to 20th 06h. 30m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13.50	11.17	84
δ Ursae Minoris	13.30	11.17	84

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 (icy roads from frozen rain or melted snow).

Table showing the Greenwich Times of Sunrise, Noon, and Sunset. 20th & 21st November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.26	11.39	15.51
	7.27	11.39	15.50
Greenwich	7.29	11.46	16.03
	7.30	11.46	16.02
Wick	8.15	11.58	15.41
	8.17	11.58	15.39
Valentia	8.11	12.27	16.42
	8.13	12.27	16.41

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:—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=rough sea.
8=very rough sea.
9=mountainous sea.

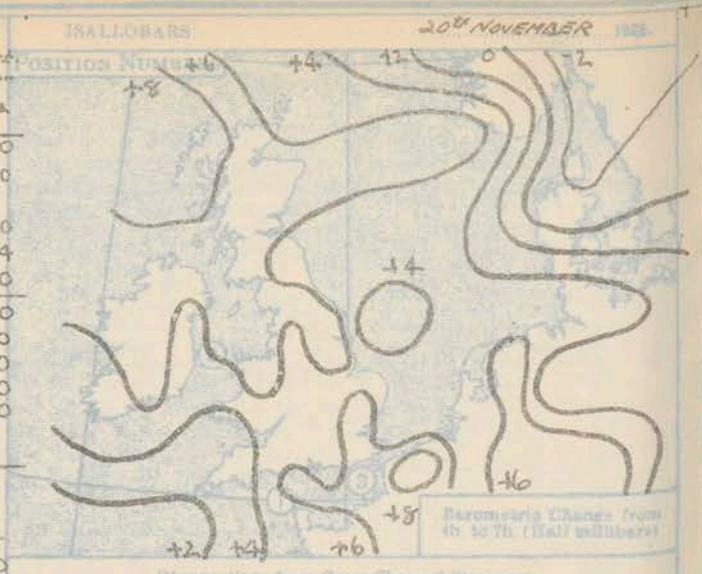
§ Telegraphic Code for Surface Visibility.

	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.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 miles.	

† 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. 19th	Weather. 18h.-18h. 19th	Weather. 18h. 19th to 1h. 20th	Weather. 1h.-7h. 20th	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 19th Hours.
Lerwick	oid,m,	coir,c	or,r	cip,r	52	45	•	Tr.	11.00	7	<21.00	0.0
Stornoway	cprc	b	c	c	55	45	•	1	<8.00	–	–	0.0
Wick	c	lorr	orrbc	c	54	44	•	3	14.30	0.5	<21.00	•
Tiree	Rrro	pr,bc	pr,bc	pr,q	54	45	40	8	<8.00	1	<21.00	0.0
Nairn	beejp	eRpr	cbcpr	beqpc	58	43	•	2	15.30	1	<21.00	0.4
Aberdeen	or,r,m,c	co3,	oircb	bbcc	59	44	40	0.4	<8.00	0.5	<21.00	0.0
Malin Head	bcerr	cbc	bclcqrbq	cr,	56	43	•	6	9.00	4	<21.00	0.0
Renfrew	ckq,r,r,	or,rc	cbcq	corq	57	40	38	2	<8.00	11	03.30	0.0
Edinburgh (Inchkeith)	c	corr	r,r,cbc	bbcpr	58	46	42	1	14.30	0.1	<21.00	0.0
Leuchars	prcmc	cip,r	p,rcb,c	cbcq	57	45	42	0.2	9.00	Tr	<21.00	0.0
Eskdalemuir	odorcm,	oidorcm,	orrm,bcc	c	53	41	41	11	<8.00	1	<21.00	0.0
Tynemouth	oq	oq	oirq	bcPq	57	45	38	–	–	6	<21.00	•
Blacksod Point ...	Pqc	phqc	PHqc	bcq	51	45	•	1	•	3	•	•
Donaghadee	ir,ir	rr,c	bcbbc	bcq	55	42	•	4	9.00	–	–	•
Birr Castle	orrm,	cbc	bcp,r	c	57	42	36	11	<8.00	2	<21.00	1.4
Holyhead	dRrr,	kqRcrc	bcb	bq	56	48	45	12	<8.00	–	–	0.0
Liverpool (Bidston) ...	cdr,	rcrr	ORb	cp,b	56	45	39	5	11.00	1	<21.00	0.0
Chester (Sealand) ...	ird	dRqRrm,	bbcprq	bcprq	57	45	39	10	<8.00	1	22.00	0.0
Harrogate	c	corr	orRcbir	bcbir,	56	45	39	1	16.30	7	<21.00	0.0
Spurn Head	c	cpr	cpRqcbc	bc	54	44	•	Tr.	16.30	0.6	<21.00	0.0
Birmingham (Edgbaston)	oid	orR	rbp,r	p,rb	55	42	38	4	9.00	1	<21.00	0.0
Cranwell	c	c,cir,	cpbc	bcir,bc	56	42	39	Tr.	16.30	1	03.30	0.0
Gorleston	or,q	ocq	op,rbq	ble	54	44	39	0.4	<8.00	Tr	<21.00	0.0
Valentia (Cahirciveen)	crir,	bccb	bcphl	bcplc	52	46	42	4	<8.00	3	<21.00	2.0
Roches Point	or,orc	cprhbc	bcplb	bbcc	55	46	•	5	<8.00	1	<21.00	•
Pembroke (St. Ann's H.)	cmid,q	crrq	bcPq	bcql	56	51	•	7	11.00	1	<21.00	0.0
Ross-on-Wye	oidq	odrrR	bcpbqpb	b	55	46	41	5	<8.00	2	<21.00	0.0
Leafield	cid	op	r,bcb	b	53	42	38	1	<8.00	0.1	<21.00	0.0
Winchester (Worthy Dn.)	cddm	crc	cbcb	b	56	41	31	1	<8.00	–	–	0.0
S. Farnborough ...	od,cir,	cro	cb	b	56	43	34	1	<8.00	–	–	0.1
London (Kew Obsy.) ...	c	cpc	b	bbc	57	44	37	0.5	12.30	Tr	–	0.2
Croydon	cd,m,	erdrm,	crqr,b	b	57	44	39	1	<8.00	Tr	<21.00	0.6
Shoeburyness	oir,c	cir,	cr,bc	bcm,	55	44	41	0.5	<8.00	–	–	0.0
Clacton-on-Sea ...	orpc	cbc	bc	bcb	52	45	40	1	<8.00	–	–	0.0
Felixstowe	cr,	circ	cbc	bw	53	44	41	0.1	<8.00	Tr	–	0.0
Lympne	cr,od,	cr,c	crcr,bcb	b	?	46	?	0.4	<8.00	1	<21.00	0.0
Scilly (St. Mary's) ...	omr	orcbcb	bp,	bbcc	55	50	•	8	<8.00	Tr	24.00	1.0
Falmouth (Pendennis)	orqm,	omrqbc	bc	bc	56	49	•	3	<8.00	–	–	0.2
Plymouth (Cattewater)	coqcrm,	crrqmb	bq	bqbc	57	50	46	3	<8.00	–	–	0.0
Portland Bill	co3,	bcqrbc	bcbbc	bcp,	58	50	•	1	14.30	Tr	06.30	•
Southampton (Calshot)	crsirmc	crcRrbc	bcqb	bbc	57	47	43	0.6	15.30	–	–	0.0
Dungeness	crrc	crcq	cqrcbcb	bbc	56	50	•	1	13.30	0.6	<21.00	•
Guernsey	cq	crqRqr	cbcb	bbcpr	57	51	•	1	15.30	0.3	03.30	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility.
2	19th 10h	Scotia	SW	7	o d,d,	56	55	5
3	20 2h	Dieppe	W	5	b	55	55	7

General Inference.

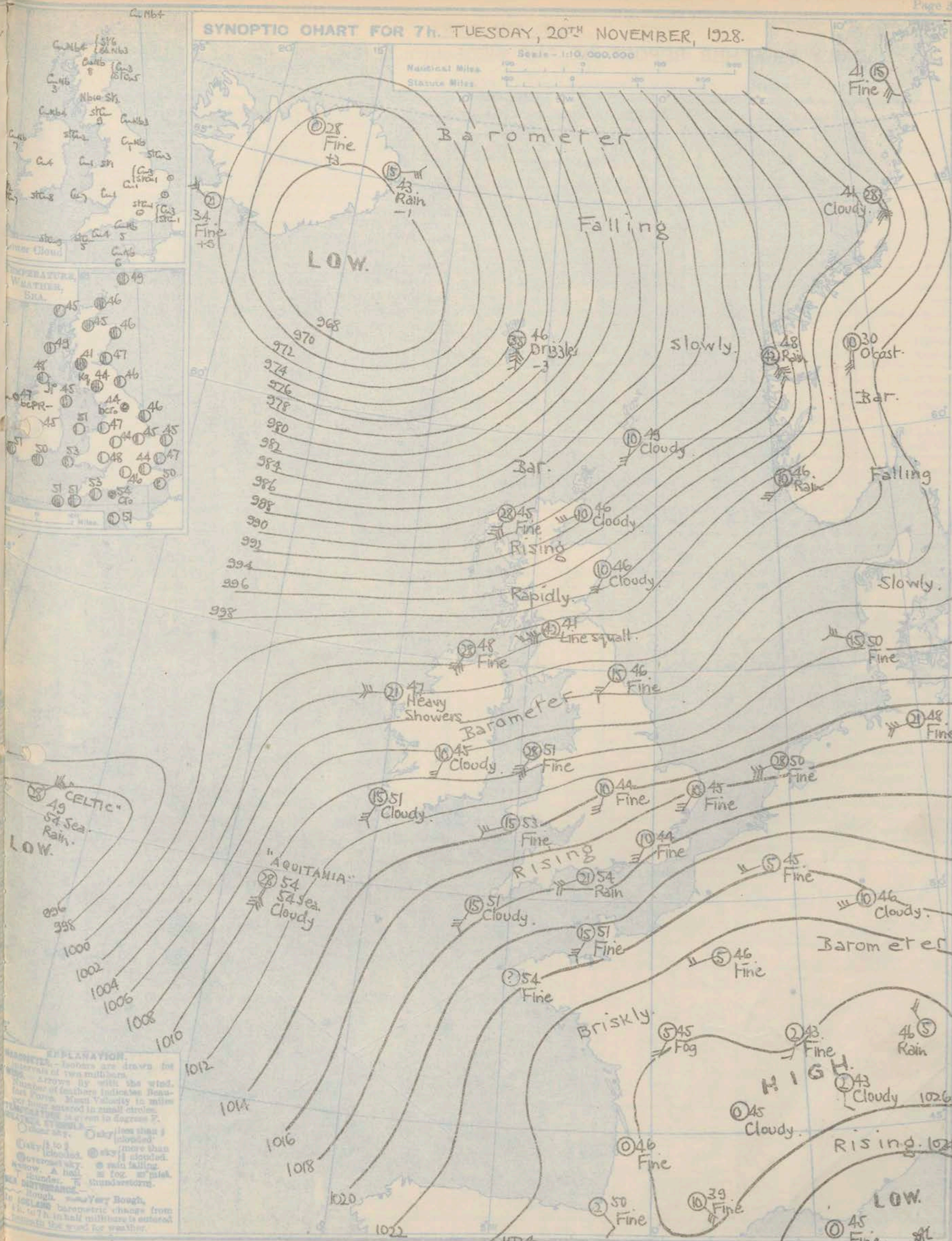
A depression south of Iceland moving slowly northeastwards will give mainly bright weather today with squally showers in the North. Another depression west of Ireland will renew unsettled weather in western districts tonight and this will gradually extend northeastwards.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 20th November, 1928	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate southwesterly winds, mainly bright, cloud increasing tomorrow; moderate temperature.	
4. W. Midlands 5. S.W. England ↓ 6. South Wales ↓	Moderate southwest wind, backing to south and freshening; bright at first, cloudy tomorrow with local rain; moderate temperature, becoming rather mild.	Unsettled in the North and West, little change elsewhere.
7. North Wales ↓ 8. N.W. England ↓ 9. N. Midlands 10. N.E. England ↓	Fresh southwest wind backing to south and becoming strong; showers and bright periods today, cloudy with rain tomorrow; 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 ↓ 17. N.W. Ireland ↓ 18. N.E. Ireland ↓	Strong squally southwest wind, backing to south and reaching gale force later; heavy showers today, cloudy with rain tomorrow; moderate temperature.	↓ South Cone still flying.
19. S.E. Ireland ↓ 20. S.W. Ireland ↓	Fresh southerly wind increasing gradually to a gale; cloudy, rain towards evening, fair periods tomorrow moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930 G.M.T. G. [illegible] Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h. TUESDAY, 20TH NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW.
Barometer Falling slowly.
Bar. Rising Rapidly.
Bar. Falling Slowly.
Barometer Rising Briskly.
Barometer Rising.
HIGH.
LOW.
"CELTIC" 49 54 Sea. Rain.
"AQUITANIA" 54 54 Sea. Cloudy
Line squall.
Heavy Showers
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
1020
1022
1024
1026
Lower Cloud
TEMPERATURE, WEATHER, SEA.
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 20th November 1928. No. 325.

Stations	Height above M.S.L. in feet	1h. Barom. at M.S.L. mb.	1h. Change in 3 Hours	1h. Wind Direc.	1h. Wind Force 0-12	1h. Weather	1h. Temp. °F.	1h. Humidity %	1h. Visibility 0-9	1h. Low Cloud Height Feet	1h. Low Cloud Form	1h. Low Cloud Amt. 0-10	1h. Upper Form	1h. 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 0-9	7h. Low Cloud Height Feet	7h. Low Cloud Form	7h. Low Cloud Amt. 0-10	7h. Upper Form	7h. Total Amt. 0-10	Sea 0-9
Lerwick	54	986.5	+2	S'W	2	ocr	48	75	7	1500	Nb	10	–	10	989.3	+4	S'W	3	c+	49	85	7	1500	CuNb	4	ASt	8	*
Stornoway	30	983.9	0	SW	7	c	*	*	7	*	*	*	*	8	988.5	+8	SW	6	bc	45	85	7	4000	CuNb	4	–	4	5
Wick	51	988.1	+2	SW	3	bc	45	85	8	1500	StCu	4	–	4	991.3	+6	WSW	3	c	46	85	8	1500	St	9	–	9	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	996.6	+8	W	7	bc	49	75	8	1500	CuNb	3	–	3	6
Nairn	39	*	*	*	*	*	*	*	*	*	*	*	*	*	994.0	*	WSW	3	c	45	85	8	1500	CuNb	8	–	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	996.7	+7	SSW	3	c	46	75	7	1500	StCu	8	–	8	1
Malin Head	81	998.3	+5	S'W	6	c/r	48	85	7	5700	StCu	8	–	8	1000.7	+7	SW	6	bcpb	48	92	7	4000	CuNb	4	ACu	5	5
Renfrew	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.2	+7	WSW	8	oKq	41	85	6	450	Nb	10	–	10	*
Edinburgh (Inchkeith)	190	994.1	+3	SW	5	b	46	75	8	–	–	0	ACu	2	997.7	+5	SW	8	bc	47	75	8	1500	St	2	ACu	4	4
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	999.1	+7	SW	6	bc	45	85	8	2500	StCu	5	–	5	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	+5	SWS	5	c	44	75	8	2500	StCu	9	ASt	10	*
Tynemouth	87	999.9	+4	W	4	bc/r	46	75	7	800	St	4	–	4	1004.5	+5	SW	4	bc/r	46	75	7	1500	CuNb	3	–	3	2
Blacksod Point	18	996.0	+3	SW	8	c	50	75	6	–	CuNb	8	–	8	1003.9	+7	W	5	bc/pR	47	85	8	*	CuNb	7	–	7	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.1	+7	W	4	bc-	45	75	8	4000	StCu	2	CiCu	3	2
Birr Castle	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	*	SSW	3	c+	45	85	7	1500	Cu	4	CiCu	8	*
Holyhead	29	1004.6	+7	SW	6	b	49	65	7	1500	StCu	1	–	1	1009.8	+6	SW	6	b+	51	75	7	1500	Cu	1	CiSt	2	3
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.0	+5	SW	3	b+	47	75	8	4000	St	1	–	1	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.5	+7	SW'W	4	b/pr0	48	75	7	4000	CuNb	2	–	2	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.5	+7	SSW	4	bcr0	44	85	7	2500	CuNb	1	CiSt	3	*
Spurn Head	29	1005.1	+5	SW'W	4	bc	46	85	7	4000	CuNb	3	–	3	1010.7	+3	SW	5	bc	46	85	7	5700	StCu	3	Ci	4	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	+5	SSW	3	b+	44	85	8	1500	Cu	1	ACu	2	*
Cranwell	236	1007.1	~~+7~~ +5	~~SW~~ W'S	5	bc-	45	85	7	–	–	0	ASt	4	1014.2	+6	SSW	4	bc/r	45	92	7	4000	Cu	4	–	4	*
Gorleston	14	1010.0	+9	SW	3	b	47	85	7	–	–	0	–	0	1016.3	+5	SW	3	bc+	45	85	7	–	–	0	CiCu	5	0
Valentia (Cahirciveen)	30	1005.8	+4	WSW	4	b	51	75	9	–	–	0	–	0	1010.2	+5	SW	4	c	51	75	8	2500	StCu	9	–	9	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.7	+6	W	3	c	50	85	8	1500	StCu	8	–	8	5
Pembroke (St. Ann's H.)	150	1007.8	+9	WSW	6	bc-	53	75	8	1500	Cu	2	ASt	4	1012.7	+4	WSW	4	bc+	53	75	8	2500	Cu	7	–	7	4
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	+5	SW	3	b	48	85	7	4000	Cu	1	Ci	2	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.0	+5	SSW	3	bc+	42	85	8	–	–	0	CiSt	3	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.3	+5	ESE	2	b+	44	85	8	4000	Cu	1	Ci	2	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.9	+4	SW	3	b	46	85	8	–	–	0	Ci	2	*
London (Kew Obsy.)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	1018.5	+6	SSW	3	bc+	44	85	7	2500	StCu	1	Ci	3	*
Croydon	244	1012.5	+6	W'S	5	b-	49	75	8	–	–	0	–	0	1018.2	+7	SW'W	4	b+	46	75	7	–	–	0	Ci	2	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.5	+5	WSW	2	bc	46	97	6	–	–	0	ASt	4	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.0	+3	S	4	b	47	85	7	–	–	0	ACu	1	4
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.8	+5	SW	3	b	45	85	7	–	–	0	Ci	2	2
Lympne	369	1013.3	+6	SW	3	b	45	92	8	–	–	0	–	0	1019.1	+6	SW	3	b	44	85	7	4000	StCu	1	–	1	*
Scilly (St. Mary's)	163	1012.8	+4	WSW	6	b	51	85	8	–	–	0	–	0	1016.5	+2	SWS	4	c+	51	92	7	4000	StCu	9	–	9	5
Falmouth (Pendennis)	300	1013.4	+6	WNW	4	bc	51	75	8	4000	Cu	3	–	3	1016.9	+3	WSW	3	bc+	51	75	8	4000	StCu	5	–	5	[illegible]
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.2	+4	WSW	5	bc+	53	75	8	1500	Cu	4	Ci	4	2
Portland Bill	32	1011.8	+4	WSW	6	bc-	54	65	8	1500	St	3	–	3	1017.4	+6	WSW	5	cr0	54	75	8	2500	CuNb	5	CiSt	10	5
Southampton (Calshot)	10	1013.7	+6	W'S	4	b	50	75	7	–	–	0	–	0	1018.7	+5	W	3	bc+	50	85	7	4000	StCu	3	–	3	0
Dungeness	20	1013.3	+4	WSW	4	b-	52	85	8	–	–	0	CiCu	2	1019.4	+7	WSW	2	bc+	50	85	~~7~~ 8	2500	Cu	4	–	4	2
Guernsey (Fort George) ₱	265	1017.0	+6	WSW	3	bc+	52	75	8	4000	StCu	4	–	4	1021.0	+5	SW	4	bc+	51	85	8	1500	CuNb	6	Ci	7	4

Observations at 1h. G.M.T. 20th. Observations at 7h. G.M.T. 20th.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19th NOVEMBER 1928

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 18th to 9h. 19th (4) °F.	Temperature Max. 9h.-17h. 19th (5) °F.	Rainfall† Night 17h.-9h. 18th-19th (6) mm.	Rainfall† Day 9h.-17h. 19th (7) mm.	Sunshine Sunrise to Sunset 19th (8) hr.
Berwick-on-Tweed	c	c	44	58	0.3	–	0.0
Douglas (I. o. M.)	omr	oRR	43	55	5	8	0.0
Llandudno	ror	r	48	59	0.4	7	0.0
Colwyn Bay	rroc	ororo	48	59	3	5	0.0
Rhyl	cbc	cr	~~(48)~~ 46	~~(56)~~ 59	1	7	0.1
Wallasey	c	corR	47	58	3	6	0.0
Southport	o	or	*50	57	1	6	0.0
Blackpool	oro	or	48	56	3	5	0.0
Ilkley	og	oro	41	58	1	1	0.0
Cleethorpes	o	o	46	56	3	–	0.0
Skegness	bcpro	o	43	54	2	(Trace)	0.0
Aberystwyth	prc	rrc	51	56	2	5	0.0
Bath	cd0	crq	46	57	1	2	0.0
Cheltenham‡	o	oqr	51	56	0.5	0.5	0.0
Leamington Spa	o	od	48	57	1	Trace	0.0
Lowestoft	c	c	44	63	0.5	–	0.0
Harwich & Dovercourt	ococ	bcd	44	63	1	Trace	0.0
Maldon	roc	c	45	56	0.5	–	0.0
Southend	or	ocr	46	55	0.3	Trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	prq	prq	49	57	1	6	0.0
Penzance	cir	cir	54	57	0.5	5	0.2
Paignton	o	orpbcb	48	58	5	1	0.0
Torquay	rpoq	orpqcb	49	57	4	0.2	0.0
Jersey	c	cr-	61	58	0.5	1	0.0
Weymouth	co	or	62	57	4	0.4	0.0
Bournemouth	o	or	49	56	–	0.3	0.0
Ventnor	ro	opo	51	56	2	Trace	0.1
Portsmouth (S'thsea)	c	op0	60	57	1	0.4	0.0
Bognor	o	oid	47	66	2	0.5	0.1
Littlehampton	c	crc	52	56	2	0.4	0.0
Worthing	cp	cr	45	55	2	1	0.0
Brighton	oco	bcR	47	66	1	1	0.0
Eastbourne‡	oir	iroir	53	56	0.1	1	0.0
Hastings‖	opdc	opro	52	56	0.3	1	0.0
Folkestone	cir	oirdo	46	54	0.3	0.3	0.0
Dover	cir	cir0	47	55	Trace	0.3	0.0
Tunbridge Wells	opo	o	46	54	1	0.5	0.0
Ramsgate	c	cpc	49	64	1	0.1	0.0
Margate	cd	cbc	46	55	1	(Trace)	0.0
Deal	d0	o	44	64	–	Trace	0.0

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* Information not usually received. ₱ The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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 9h.-9h. ‖ 17h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24471 Wednesday, 21st November 1928. Page 1.

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1005.3	+4	SW	3	bcpc	48	75	8	1500	CuNb	7	-	7	*
Stornoway	997.7	+5	SW	6	bcpr	48	65	7	4000	CuNb	4	-	4	*
Wick	999.3	+6	SW	3	bc	48	75	8	2500	StCu	3	CiSt	4	*
Tiree	1002.8	+5	W	6	bc	46	85	8	1500	CuNb	5	-	5	-
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1004.8	+8	SW	4	b	51	65	8	2500	Cu	1	CiCu	2	-
Malin Head	1007.7	+7	SW	6	bcpc	49	92	7	4000	CuNb	8	ACu	8	*
Renfrew	1008.3	+6	SW	6	c	49	75	8	1500	CuNb	8	-	8	2
Edinburgh (Inchkeith)	1007.4	+5	SW	6	bc	49	75	8	4000	Cu	3	ACu	6	*
Leuchars	1006.7	+6	SW	6	bc	49	85	8	2500	StCu	3	Ci	7	2
Eskdalemuir	1010.5	+5	SWS	5	c	45	75	8	1500	StCu	8	-	8	2
Tynemouth	1010.5	+4	SW	3	bc	53	65	7	1500	St	3	Ci	4	*
Blacksod Point	1008.6	+4	W	3	bc	51	92	8	-	-	0	ACu	6	*
Donaghadee	1011.7	+6	WSW	4	bc	48	75	8	4000	StCu	4	CiCu	5	*
Birr Castle	1011.3	*	SW	3	c(pr)	52	85	7	2500	StCu	9	-	9	*
Holyhead	1014.1	-3	SWS	5	c	53	[illegible]	7	1500	St	1	ASt	9	-
Liverpool (Bidston)	1015.6	-3	SWW	4	c	51	75	7	2500	Nb	9	ACu	9	*
Chester (Sealand)	1015.3	+3	SW	3	c(pr)	52	75	8	1500	StCu	9	-	9	2
Harrogate	1014.2	+6	SW	4	bc	51	75	6	2500	CuNb	3	ASt	3	*
Spurn Head	1016.5	+3	SSW	4	bc	51	85	7	-	-	0	CiSt	5	*
Birmingham (Edgbaston)	1018.4	+2	SW	3	c	51	75	7	1500	Nb	2	ACu	9	2
Cranwell	1017.4	+3	SWS	5	c	51	75	6	4000	StCu	4	ACu	9	1
Gorleston	1020.3	+4	SW	4	bc	52	85	6	-	-	0	CiCu	5	*
Valentia (Cahirciveen)	1011.7	-1	SW	4	c	54	85	8	1500	StCu	5	ASt	9	2
Roches Point	1014.3	+2	SW	3	c	53	92	8	1500	CuNb	8	-	8	*
Pembroke (St. Ann's H.)	1016.5	+3	WSW	4	c	54	85	7	1500	Cu	5	CiSt	8	*
Ross-on-Wye	1018.2	+4	SW	4	c	55	75	7	2500	Nb	7	ASt	9	2
Leafield	1019.7	+4	SWS	4	c	50	75	8	2500	Cu	1	ASt	8	2
Winchester (Worthy Dn.)	1020.8	+1	SWS	4	c	55	65	8	4000	Cu	2	ACu	8	2
S. Farnborough	1021.1	+2	SWW	4	c	54	65	8	4000	Cu	1	ACu	9	1
London (Kew Obsy.)	1021.7	+2	SW	4	bc	54	75	7	2500	Cu	1	ACu	7	1
Croydon	1021.5	+2	SW	4	bc	55	65	6	2500	Cu	5	ACu	7	2
Shoeburyness	1020.9	+3	SW	3	bc	55	65	8	-	-	0	ACu	4	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1021.8	+2	SW	4	bc	54	75	7	-	-	0	Ci	5	1
Lympne	1022.4	+3	SWS	4	c	53	75	8	2500	Cu	7	Ci	8	1
Scilly (St. Mary's)	1019.0	0	SW	4	c	54	92	7	4000	StCu	4	ACu	8	*
Falmouth (Pendennis)	1019.1	+1	SW	5	bc	55	75	8	4000	Cu	5	CiCu	6	*
Plymouth (Cattewater)	1020.8	+2	SW	5	c	55	85	8	2500	StCu	6	CiSt	9	2
Portland Bill	1020.8	+2	SW	5	c	55	85	8	1500	StCu	4	ACu	9	-
Southampton (Calshot)	1022.1	+2	WSW	3	bc	55	75	7	2500	Cu	2	ACu	6	-
Dungeness	1022.7	+3	WSW	4	bc	55	85	8	2500	Cu	4	CiCu	8	*
Guernsey (Fort George)	1023.2	+1	SSW	3	c	54	85	8	2500	Cu	2	ASt	8	*

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1001.3	+8	SW	5	bcpc	48	75	8	1500	CuNb	7	-	7	*
Stornoway	1004.7	+9	WSW	5	bcpr	43	75	7	4000	CuNb	5	-	5	4
Wick	1005.6	+7	SW	3	bc	43	85	8	2500	StCu	4	-	4	1
Tiree	1009.3	+7	W	5	bc	48	75	8	1500	CuNb	5	-	5	6
Nairn	1006.5	*	W	2	bcr	43	85	8	2500	Cu	5	-	5	*
Aberdeen	1009.7	+6	SW	3	b	44	75	7	-	-	0	ACu	2	1
Malin Head	1011.4	+6	S	4	c/r	47	92	7	5700	StCu	7	ACu	9	5
Renfrew	1011.9	+5	WSW	3	bc	44	85	8	2500	StCu	4	Ci	6	*
Edinburgh (Inchkeith)	1011.4	+4	SW	3	bc	47	85	8	1500	St	2	ACu	4	2
Leuchars	1010.9	+5	SW	3	b	45	85	8	2500	StCu	1	Ci	2	*
Eskdalemuir	1013.3	+4	SW	5	b	45	85	7	2500	Cu	2	-	2	*
Tynemouth	1015.4	+4	SW	2	bc	49	75	7	1500	St	3	ACu	4	1
Blacksod Point	1010.4	+2	S	3	orr	49	92	7	*	Nb	10	-	10	5
Donaghadee	1014.2	+3	SW	2	bc	47	85	7	2500	Cu	4	ASt	7	2
Birr Castle	1012.4	*	S	1	c	49	92	6	1500	Cu	2	ASt	10	*
Holyhead	1016.0	+2	SSW	4	c	53	85	7	1500	St	3	CiSt	9	4
Liverpool (Bidston)	1017.2	+2	SWS	4	c	49	85	8	2500	CuNb	4	ACu	8	*
Chester (Sealand)	1017.6	+3	S	2	bc	48	85	6	-	-	0	CiCu	6	*
Harrogate	1017.8	+5	SSW	3	b	47	85	6	-	-	0	CiSt	1	*
Spurn Head	1019.3	+2	SSW	3	bc	47	92	7	5700	StCu	4	-	4	3
Birmingham (Edgbaston)	1020.9	+2	SSW	4	bc	49	85	7	-	-	0	ACu	6	*
Cranwell	1020.5	+5	SSW	4	b	47	85	6	-	-	0	ACu	2	*
Gorleston	1022.4	+2	SSW	3	bc	49	92	6	-	-	0	ASt	6	0
Valentia (Cahirciveen)	1009.8	-2	SE	5	c	53	85	8	1500	St	7	ASt	10	4
Roches Point	1013.9	0	SW	4	c	52	85	8	1500	StCu	9	-	9	6
Pembroke (St. Ann's H.)	1017.1	+1	SSW	4	c	54	85	7	1500	Cu	6	CiCu	8	3
Ross-on-Wye	1019.9	+2	SSW	3	bc	50	85	7	4000	StCu	2	ACu	4	*
Leafield	1021.1	+2	SW	3	b	45	92	8	-	-	0	ASt	1	*
Winchester (Worthy Dn.)	1022.4	+2	SE	2	c	47	97	6	7200	StCu	9	-	9	*
S. Farnborough	1022.7	+2	S	2	bc	49	85	6	-	-	0	Ci	5	*
London (Kew Obsy.)	1023.4	+1	SSW	2	bc	51	75	6	-	-	0	CiCu	7	*
Croydon	1023.3	+3	SSW	3	c	50	85	6	-	-	0	ACu	9	*
Shoeburyness	1023.5	+4	SW	2	c	50	97	8	-	-	0	ASt	9	*
Clacton-on-Sea	1023.6	+2	SW	4	o	50	92	6	4000	St	10	-	10	3
Felixstowe	1023.5	+2	SW	3	bc	51	85	7	-	-	0	ACu	7	1
Lympne	1024.1	+2	SW	3	cpr	50	92	7	1500	Nb	3	ASt	10	*
Scilly (St. Mary's)	1016.8	-1	SSE	5	bc	52	85	8	4000	Cu	2	ACu	4	5
Falmouth (Pendennis)	1018.3	+1	SW	5	bc	54	85	7	4000	Cu	3	ACu	6	2
Plymouth (Cattewater)	1020.4	0	SSW	5	bc	54	85	7	1500	CuNb	1	CiSt	7	2
Portland Bill	1021.4	+1	SSW	5	c	55	85	8	1500	St	4	ACu	9	5
Southampton (Calshot)	1023.0	+1	SSW	2	c	52	85	7	2500	StCu	4	ACu	8	0
Dungeness	1024.3	+3	WSW	3	bc	54	85	8	2500	Cu	2	CiCu	6	4
Guernsey (Fort George)	1023.2	0	SSW	4	bc	53	85	8	1500	Cu	1	ACu	4	4

LONDON OBSERVATIONS. Day 7h–18h, Kew & Croydon. 9h–18h, Kensington. 9h–18h, other stations.	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Max. Day. °F.	Min. Night. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine 7h to Sunset. hrs.	Humidity 15h. G.M.T. % Yesterday.	Humidity 8h. G.M.T. % To-day.	Visibility at 9h.
Kew	18	bc	c/bc	[illegible]	55	48	44	-	0.4	3.5	*	*	5
Croydon	244	bcc	bcc	c(pr)	56	49	44	-	2	3.3	*	*	6
Greenwich (Royal Obsy.)	149	bcc	c	c	51	47	40	-	0.5	<.1			
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	1.4	*	*	
Westminster (St. James' Pk.)	27	*	*	*	57	49	43	0.4		3.2			
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	.1	*	*	
Camden Square	110	bcbc	c	*	53	50	*	-	.4	*	*	90	*
Kensington Palace	20	bcc	c	*	56	50	41	-	0.5	*	(At 18h 73)	92	*
Hampstead Observatory	450	*	*	*	55	42	38	-	1	4.1	*	98	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 21st

South Kensington

Max.	Time.	Min.	Time.
0.6	20th 12h	<0.3	21st 2h

Kew Observatory

Max.	Time.	Min.	Time.
0.3	20th 8h	<0.1	21st 3h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 20th 17 h. 0 m. to 21st 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.30	02.49	21
δ Ursae Minoris	13.30	01.36	12

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 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.

21st–22nd November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·27	11·39	15·50
	7·29	11·39	15·49
Greenwich	7·30	11·46	16·2
	7·31	11·46	16·0
Wick	8·17	11·58	15·39
	8·19	11·59	15·37
Valentia	8·13	12·27	16·41
	8·14	12·27	16·40

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

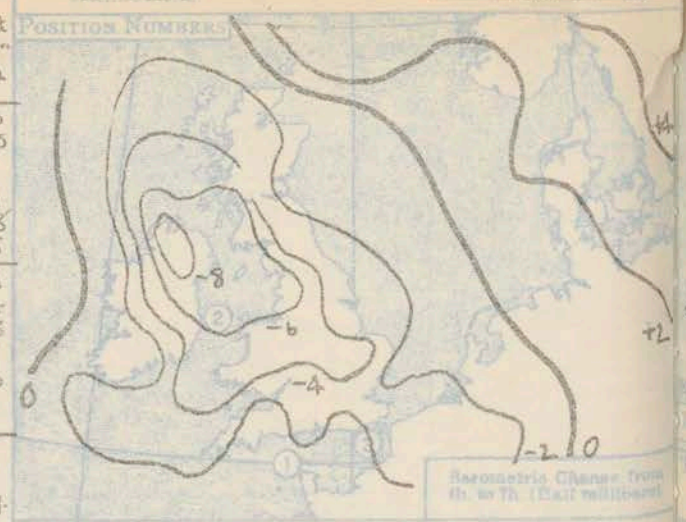
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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. 20th	Weather. 18h.-18h. 20th	Weather. 18h. 20th to 1h. 21st	Weather. 1h.-7h. 21st	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 20th Hours.
Lerwick	cip.r	bcip.r	cifhbc	bcifhrc	50	40	•	3	<8.00	6	<21.00	0.3
Stornoway	p	p	b	ob	48	31	•	2	9.00	0.3	03.30	3.3
Wick	bbc	bcbr	b	bcc	48	38	•	0.4	16.30	–	–	•
Tiree	prbc	prh.bc	bcpd	rcr.	49	44	40	0.3	<8.00	2	<21.00	3.1
Nairn	cprbcq	bcpr	bcz	cpr	47	37	•	1	<8.00	2	02.30	3.8
Aberdeen	cbcb	b	bz.	bbcorm	51	39	31	–	–	2	04.30	5.5
Malin Head	cphrbcpr	bccpr	ocr	cr.	50	46	•	1	<8.00	1	22.00	2.1
Renfrew	brcq	cq pbc	cbcrbc	bccotm	49	43	37	0.4	<8.00	1	22.00	0.4
Edinburgh (Inchkeith)	bcpq	bbc	bbc	bccir.o	49	46	41	3	<8.00	0.2	03.30	3.3
Leuchars	Prcipr bcq	bcq prbcq	bbc	bccr.	49	40	36	2	<8.00	0.3	05.30	1.7
Eskdalemuir	cpr.c	cbb.b	bbc pnr	crcrr	46	43	43	Tr.	<8.00	1	22.00	0.0
Tynemouth	bc	bc	bco	oir	53	46	42	–	–	0.5	06.30	•
Blacksod Point ...	p.c	p.r.	oR	pc	51	47	•	2	•	7	•	•
Donaghadee	bc	bc	cir.	cirm.	51	46	•	–	–	4	24.00	•
Birr Castle	cp.r	cpre	cp.r	c	52	48	40	0.1	12.30	2	<21.00	0.4
Holyhead	bccq	p.c	c, Rc	r.r	54	49	49	–	–	7	<21.00	0.0
Liverpool (Bidston) ...	bbcc	c	cbcc	cop.	52	47	43	–	–	Tr	05.30	1.1
Chester (Sealand) ...	bcprq.cpr	cprcbc	bcc	crr.	53	46	43	2	<8.00	1	04.30	~~1.4~~ 0.3
Harrogate	bcirbcb	bcb	bbcco	cofrr	52	44	42	Tr.	<8.00	1	05.30	3.0
Spurn Head	bc	bcc	bcw	bccor	51	45	•	–	–	0.4	04.30	3.3
Birmingham (Edgbaston)	bbc	cbc	bcc	cor.d.	51	46	43	–	–	1	05.30	1.0
Cranwell	bcc	c, b	bc	cr.o	52	43	42	–	–	0.2	05.30	2.9
Gorleston	bc	bccm.	bcbw	cor.rq	54	46	41	–	–	0.2	04.30	4.3
Valentia (Cahirciveen)	cp.c	cp.c	cir.or	r.cir.	54	53	51	0.1	9.00	10	<21.00	0.1
Roches Point	c	cp.c	cbcor	orc	54	52	•	0.3	13.30	6	22.00	•
Pembroke (St. Ann's H.)	bccq.p.	cq	orrq	olRqm	55	51	•	Tr.	9.00	10	<21.00	0.0
Ross-on-Wye	bccpc	cpbc	bcco	r.cor	54	49	45	0.1	12.30	1	01.30	1.7
Leafield	bc	cbc	bbcc	coir	51	43	38	–	–	1	01.30	3.1
Winchester (Worthy Dn.)	bbcm.c	cbcc	c	corrc	56	45	41	–	–	3	01.30	3.9
S. Farnborough ...	b.c	cbc	b.c	cord.	55	48	43	–	–	3	02.30	2.4
London (Kew Obsy.) ...	bc	cbc	bcc	ccd.	55	49	44	–	–	0.4	01.30	3.5
Croydon	bccz.	bccz.	cz.w	cr.r.dd	56	49	44	–	–	2	03.30	3.3
Shoeburyness	bc	c	cbc	bccp.	57	46	43	–	–	~~Tr~~ 0.2	03.30	4.5
Clacton-on-Sea ...	bbc	bcco	oc	cpo	54	46	41	–	–	1	02.30	3.5
Felixstowe	bc	bccbc	bcb	bccr.	54	48	45	–	–	0.4	02.30	4.1
Lympne	bcc	bccpr	cbc	or.cm.	?	40	?	0.2	16.30	0.5	03.30	3.4
Scilly (St. Mary's) ...	c	c	cid	orr	55	51	•	–	–	3	<21.00	0.6
Falmouth (Pendennis)	bcq	bcq	bccrqm	cq.Rmq	56	53	•	–	–	5	<21.00	1.6
Plymouth (Cattewater)	bccq	cq prbc	bcorr	orrm.q	56	53	49	0.3	13.30	3	<21.00	0.5
Portland Bill	c	c	corrz.	orrodz.	56	52	•	–	–	2	22.00	•
Southampton (Calshot)	bcpr	bcp.qcrc	bccir	cir.	55	50	48	0.3	14.30	1	24.00	3.9
Dungeness	bcc bc	bcbc	dcdc	bccdc	55	50	•	–	–	0.5	03.30	•
Guernsey	bc	bc	bcbbcq	cq	54	52	•	–	–	1	22.00	1.1



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	20th 16h	Scotia	SSW	6	c+	52	54	7
1	20th 12h	St. Helier	SW	5	c+	56	56	7

GENERAL INFERENCE.

A depression to the west of Ireland is moving in a north easterly direction towards Iceland. The associated rain area now covering the British Isles will move northwards and weather will be mild and cloudy.

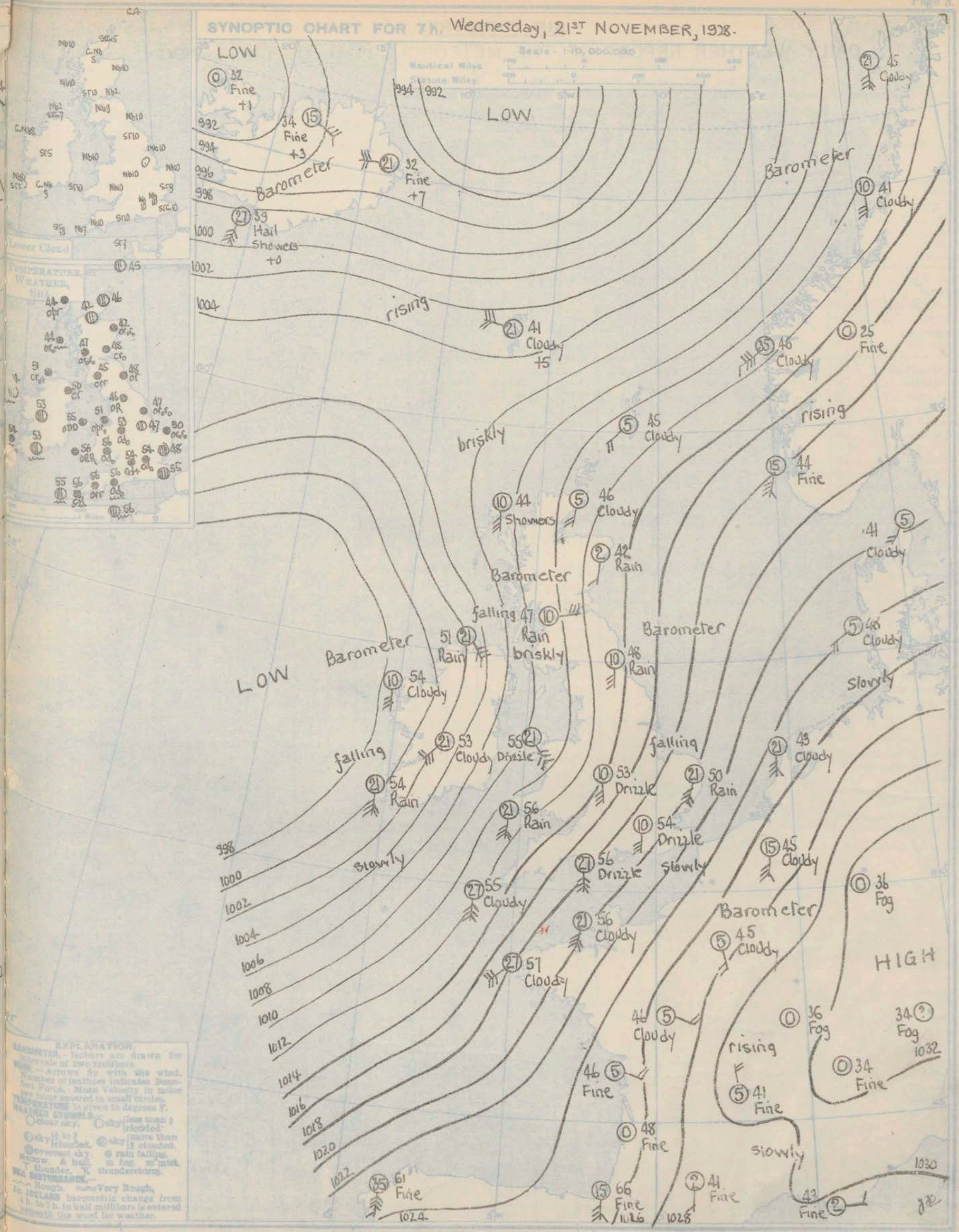
Wednesday, 21st November, 1928

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh southerly winds; cloudy, local rain or drizzle, fair intervals towards evening; mist locally; mild.	
5. S.W. England ↓ 6. South Wales ↓ 7. North Wales ↓	Strong south to southwest wind; cloudy, occasional rain, brighter periods; coastal mist; rather mild.	Unsettled and mild.
8. N.W. England ↓ 9. N. Midlands 10. N.E. England	Fresh to strong southerly winds; cloudy, rain or drizzle, brighter periods tomorrow; coastal mist; rather mild.	
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 ↓	Fresh to strong southerly winds; cloudy, rain or drizzle; mist or fog locally; moderate temperature becoming mild.	↓ South Cone still flying.
17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	Strong south to southwest wind, reaching gale force locally; mainly cloudy, occasional rain, brighter periods; rather mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0935 G.M.T. G. C. Simpson, F.R.S., Director.

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

† For code see page 4


SYNOPTIC CHART FOR 7h. Wednesday, 21st NOVEMBER, 1928.
LOW
LOW
LOW
HIGH
Barometer
rising
briskly
falling
slowly
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...WEDNESDAY, 21st NOVEMBER, 1928. No. 326.

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.§ 0-9	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. 21st: 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	54	1006·7	+8	W'S	5	bc/p	43	75	8	1500	Cu/b	4	–	4	1011·0	+5	SW	2	c	45	65	8	1500	Cu	4	ASt	8	*
Stornoway	30	1011·7	+6	W	1	b-	*	*	8	*	*	*	*	2	1008·0	-3	S	3	c/p	44	75	6	2500	Nb	10	–	10	2
Wick	81	1011·9	+5	SW	3	bc	44	75	8	2500	StCu	4	ASt	6	1011·5	-2	SSW	2	c	46	85	8	2500	StCu	5	ASt	10	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1004·7	-5	SE	6	or	44	92	7	800	Nb	10	–	10	6
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*	1009·4	*	–	0	c/r	42	92	7	1500	CuNb	8	–	8	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1013·0	-2	SSW	1	or	42	97	6	1500	Nb	10	–	10	1
Malin Head	51	1010·9	-3	SSE	2	cr	47	97	7	4000	Nb	7	ASt	10	1001·2	-9	SE	5	cr+	51	97	7	3000	StCu	9	–	9	5
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1009·0	-7	E	3	or	47	92	9	1500	St	10	–	10	*
Edinburgh (Inchkeith)	100	1014·3	+2	WSW	2	bc	47	92	8	–	–	0	ACu	3	1011·7	-2	E	2	cr	48	92	8	1500	Nb	2	ASt	10	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1012·3	-2	E	3	cr	47	92	7	1500	St	6	ASt	10	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1010·6	-6	SE	3	cr	45	85	7	2500	Nb	9	ASt	10	*
Tynemouth	67	1017·5	+1	SSW	1	o	48	85	7	1500	St	10	–	10	1013·0	-3	S	3	or	48	92	7	1500	Nb	10	–	10	1
Blacknod Point ...	18	1004·7		S	3	ORR	49	92	6	*	Nb	10	–	10	998·1	-1	S	3	c	50	92	7	*	CuNb	8	–	8	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1006·2	-7	SSE	6	cr	50	97	6	2500	Nb	9	–	9	5
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1002·0	*	S	1	c-	51	92	7	450	St	5	ASt	8	*
Holyhead	26	1013·9	-3	SE	5	o	52	85	6	1500	St	10	–	10	1007·0	-6	SSE	5	ODO	55	97	5	450	Nb	10	–	10	2
Liverpool (Bidston) ...	186	*	*	*	*	*	*	*	*	*	*	*	*	*	1009·3	-6	SE	4	c/p	51	97	7	2500	Nb	10	–	10	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1009·7	-5	SSE	5	cr	50	97	7	800	Nb	8	ASt	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1011·3	-6	SE	3	or+	46	97	3	2150	St	10	–	10	*
Spurn Head	29	1020·8	0	S'W	4	bc	46	97	6	4000	Nb	4	–	4	1015·9	-3	SSE	6	or	47	97	6	2500	Nb	10	–	10	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1013·6	-4	SSE	3	od	53	97	6	1500	Nb	10	–	10	*
Cranwell	236	1021·6	0	SSE	2	bc+	45	97	6	–	–	0	ASt	7	1016·9	-4	SE	4	c/r	47	97	6	–	–	0	ASt	10	*
Gorleston	14	1023·9	0	SW	2	bc+	47	97	6	2500	Cu	2	ASt	5	1020·1	-4	S'W	5	or	50	97	6	1500	Nb	10	–	10	1
Valentia (Cahirciveen)¶	30	1004·1	-5	S	4	or	54	97	6	*	St	10	–	10	999·3	-2	S	5	cr	54	92	6	1500	Nb	10	–	10	4
Roches Point	72	*	*	*	*	*	*	*	*	*	*	*	*	*	1004·6	0	SW	5	c	53	97	7	1500	CuNb	9	–	9	6
Pembroke (St. Ann's H.)	150	1012·2	-4	SSE	3	od	52	97	6	800	St	10	–	10	1011·9	-5	S	5	ORR	56	97	4	450	St	10	–	10	5
Ross-on-Wye	228	*	*	*	*	*	*	*	*	*	*	*	*	*	1012·6	-4	SSW	3	od	56	92	7	2500	Nb	10	–	10	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*	1014·7	-3	S'E	5	od	53	97	6	220	St	10	–	10	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·8	-2	SW	5	c	55	97	8	1500	St	10	–	10	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·1	-2	S	4	od+	54	97	6	800	Nb	10	–	10	*
London (Kew Obsy.) ...	18	*	*	*	*	*	50	*	*	*	*	*	*	*	1018·2	-2	S	3	od	54	97	6	800	Nb	10	–	10	*
Croydon	244	1022·1	-3	SSE	3	c	50	85	7	–	–	0	ACu	9	1018·9	-2	S'W	4	cd	54	92	5	800	Nb	10	–	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·2	-3	S	3	c	51	97	8	2500	StCu	7	ACu	9	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·7	-3	SW	4	o	48	92	6	4000	St	10	–	10	2
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·7	-2	S	5	c/r	51	97	6	450	St	9	ASt	10	3
Lympne	350	1023·4	-1	SSE	4	bc-	49	85	7	4000	StCu	6	–	6	1020·9	-2	S'E	4	c/r	52	97	6	1500	St	8	ACu	10	*
Scilly (St. Mary's) ...	163	1013·1	-2	S'E	6	od	55	97	5	2500	Nb	10	–	10	1010·5	-2	S	6	c	55	97	7	4000	StCu	10	–	10	6
Falmouth (Pendennis)	200	1014·7	-2	SW'S	6	c	56	97	7	4000	StCu	9	–	9	1011·3	-3	S	7	cR-	56	97	6	2500	Nb	7	ASt	10	6
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1014·2	-2	SSW	6	orr	56	97	6	800	Nb	10	–	10	4
Portland Bill	107	1017·5	-6	SSE	6	or	54	97	6	1500	Nb	10	–	10	1015·7	-1	S	6	od	56	92	6	1500	St	10	–	10	6
Southampton (Calshot)	10	1021·1	-5	S'E	4	cr	52	85	7	1500	Nb	8	ASt	10	1018·5	-2	SSE	5	c/r	55	92	7	1500	StCu	9	ASt	10	3
Dungeness	20	1024·1	-1	S	4	oc	51	92	8	–	–	0	CiCu	6	1021·2	-2	SSW	4	c/d	55	97	8	2500	StCu	10	–	10	4
Guernsey (Fort George) ¶	206	1020·2	-3	SE	4	c+	54	85	7	4000	StCu	10	–	10	1019·5	-1	SSW	5	c	56	97	7	450	St	7	ASt	9	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 20th November.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 19 to 9h. 20 °F.	Temperature. Max. 9h.-17h. 20 °F.	Rainfall.† Night 17h.-9h. 19-20 mm.	Rainfall.† Day 9h.-17h. 20 mm.	Sunshine. Sunrise to Sunset. 20 hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	45	50	2	–	5·2
Douglas (I. o. M.) ...	co	co	43	51	1	–	0·0
Llandudno ...	cpc	cdc	47	54	1	0·1	1·4
Colwyn Bay ...	co	oc	47	54	1	–	0·0
Rhyl	oc	cbc	46	55	1	–	0·8
Wallasey	bac	pcbc	44	54	1	Trace	0·5
Southport	bbcop	ocbab	47	52	2	–	0·4
Blackpool	oc	oc	47	52	3	–	0·2
Ilkley	bc	pc	42	52	7	0·4	1·8
Cleethorpes	b	bo	43	53	0·4	–	3·5
Skegness	bbc	bac	43	51	0·3	–	3·1
Aberystwyth ...	pb	bac	47	54	4	–	0·6
Bath	bac	cbab	46	55	0·5	–	1·8
Cheltenham ...	bac	bc	46	54	2	–	3·6
Leamington Spa ...	c	c	42	54	1	–	1·8
Lowestoft	b	bbcc	43	53	0·1	–	4·2
Harwich & Dovercourt	b	bc	40	54	Trace	–	4·0
Maldon	mbbc	bco	39	55	–	–	3·4
Southend	bbc	bac	45	57	0·2	–	4·5

(1)	(3)	(2)	(4)	(5)	(6)	(7)	(8)
Bude	rabc	bcc	48	53	1	–	3·0
Penzance	cb	bc	49	57	0·3	–	1·2
Paignton	bcw	bapc	47	56	–	Trace	1·8
Torquay	bc	bebpc	47	57	–	Trace	1·4
Jersey	bc	bac	52	56	–	–	2·5
Weymouth	bc	bac	50	53	–	–	1·2
Bournemouth ...	cbc	bbcc	46	56	0·5	–	2·8
Ventnor ...	rbcp	bccw	48	56	1	Trace	3·8
Portsmouth (S'ldsea)	cbc	bcp	47	56	1	0·2	2·6
Bognor	bc	co	49	56	0·3	–	3·5
Littlehampton ...	bc	bc	49	54	0·4	–	3·6
Worthing	bc	bcc	48	56	–	–	3·8
Brighton	bcco	oco	50	56	1	1	2·3
Eastbourne	bacbc	bccc	50	56	1	Trace	1·7
Hastings	bc	bbc	47	57	1	–	3·6
Folkestone	cm	bcc	45	56	0·5	–	3·8
Dover	bc	bac	48	56	1	–	5·1
Tunbridge Wells ...	cpoc	bbc	43	55	0·5	Trace	2·7
Ramsgate	bc	bac	45	57	0·5	–	5·4
Margate	bc	bac	45	57	1	–	5·0
Deal	bbc	pbc	45	55	1	Trace	3·9

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. and at Guernsey, the sunshine readings are 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. § 21h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24472. Thursday, 22nd November 1928.

STATIONS. (For heights see p. 4).	Observations at 15h. 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.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.	Observations at 15h. 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.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	10089	-4	SE	1	c	47	75	8	1500	StCu	10	-	10	•	1001·9	-8	SE	3	orr	47	92	7	1500	Nb	10	-	10	•
Stornoway	10004	-9	SE	1	oRR	4 (corrected: 6)	92	6	1500	Nb	10	-	10	•	9963	-4	SE	1	o	45	97	6	2500	St	10	-	10	0
Wick	10045	-7	S	4	cr₀r₀	49	92	8	1500	Nb	8	ASt	10	•	9985	-5	W	2	c	47	92	8	1500	Nb	8	-	8	1
Tiree	9982	-3	S'E	4	c	51	97	7	1500	StCu	10	-	10	2	9965	-1	S	3	cr₀	51	97	7	1500	Nb	8	-	8	3
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•	9982	*	-	0	bc₀	40	85	8	2500	Cu	2	ACu	5	•
Aberdeen	10041	-10	SSE	5	or	47	97	5	800	Nb	10	-	10	2	10001	-3	-	0	c-	48	92	5	1500	Nb	3	ACu	8	1
Malin Head	9983	-3	S	5	bc+	54	92	7	2500	St	2	ACu	6	•	9969	-1	S	3	c/r	52	97	7	4000	StCu	8	-	8	4
Renfrew	10024	-5	ENE	1	mmc	52	97	4	1500	St	10	-	10	2	9993	-3	SW	3	cd	52	92	6	800	St	8	-	8	
Edinburgh (Inchkeith)	10029	-7	SSW	1	c-	51	85	7	1500	St	6	ASt	9	•	9993	-3	SW	2	orr₀	52	85	8	1500	Nb	10	-	10	0
Leuchars	10031	-9	SE	4	c-	49	92	8	2500	StCu	4	ASt	8	2	9996	-4	S	1	or	50	92	7	1500	Nb	10	-	10	
Eskdalemuir	10034	-6	S'W	6	c	52	92	7	800	St	9	-	9	2	10002	-4	S'W	6	or	50	97	6	1500	Nb	10	-	10	•
Tynemouth	10058	-5	S	2	ojp	52	97	6	1500	Nb	10	-	10	•	1001·9	-3	S	3	bc	52	92	6	1500	Cu	5	-	5	1
Blacksod Point	9956	-1	S	3	c	54	75 (corrected: 92)	8	-	-	0	ASt	10	•	9967	+1	S	2	bc	52	97	7	•	CuNb	4	-	4	5
Donaghadee	10030	-4	SW'W	3	bc+	54	92	7	4000	StCu	7	-	7	•	10005	-2	SW'W	2	bc-	51	92	7	4000	StCu	4	ACu	5	2
Birr Castle	9993	*	S	4	cr	54	97	6	1500	Nb	9	-	9	•	9980	*	S	2	cr	53	92	6	1500	Cu	9	-	9	•
Holyhead	10058	-3	SE	5	cr₀	55	92	6	1500	Nb	9	CiSt	9	2	10022	-4	S'W	5	c/r₀	54	92	6	1500	St	9	-	9	4
Liverpool (Bidston)	10072	-3	SSW	3	c-	57	85	8	1500	StCu	5	ASt	9	•	10039	-3	S'E	3	c/r₀+	55	75	7	2500	St	9	-	9	•
Chester (Sealand)	10072	-3	S'W	4	e	59	75	8	2500	St	3	ASt	10	2	10044	-4	SSE	4	e₀	55	85	7	1500	St	10	-	10	•
Harrogate	10082	-3	S	3	c/r	55	97	5	2500	Nb	9	ASt	10	•	10052	-3	S	3	c	54	75	6	2500	Nb	9	-	9	•
Spurn Head	10097	-3	S	6	cr	53	97	6	4000	Nb	9	-	9	•	10073	-2	S'W	4	c	53	97	6	4000	Nb	9	-	9	3
Birmingham (Edgbaston)	10102	-3	SSW	4	cr	55	92	8	1500	Nb	10	-	10	2	10073	-4	S	5	c-	53	85	8	2500	StCu	8	-	8	•
Cranwell	10113	-7	S	5	c/r₀	56	97	6	800	Nb	7	ASt	10	2	1008·8	-3	S	4	c	54	92	7	800	Nb	5	CiSt	9	•
Gorleston	10160	-4	S'W	6	or₀	55	97	6	1500	Nb	10	-	10	•	10119	-4	SSW	6	orr₀₀	54	97	6	800	Nb	10	-	10	4
Valentia (Cahirciveen)	9968	-4	S	6	cr₀	54	92	6	800	St	10	-	10	2	1001·3	+8	SW'W	5	cr₀	53	92	7	1500	St	10	-	10	4
Roches Point	10016	-3	SW	5	c₀	55	92	7	1500	CuNb	9	-	9	•	10008	+3	W	4	bc₀	53	97	7	1500	CuNb	4	-	4	6
Pembroke (St. Ann's H.)	10065	-2	SW	6	c+	56	92	5	800	StCu	8	ASt	10	•	10019	-6	SW	7	orr	53	97	5	450	St	10	-	10	6
Ross-on-Wye	10106	-2	SW	4	cr-	55	92	8	2500	Nb	8	ASt	10	2	10073	-4	SW	5	cr₀+	53	92	7	2500	Nb	9	-	9	•
Leafield	1011·8	-4	S	5	orr	54	97	6	800	Nb	10	-	10	2	10094	-3	S	5	bc-	51	92	8	4000	StCu	1	CiSt	4	•
Winchester (Worthy Dn.)	10142	-5	S	5	cd.	55	97	6	800	Nb	10	-	10	2	10127	-2	S	5	c	54	92	7	1500	StCu	10	-	10	•
S. Farnborough	10149	-5	SSW	5	cdd	56	97	6	450	Nb	10	-	10	2	10122	-3	SSW	5	c	55	85	7	450	Nb	5	ASt	10	•
London (Kew Obsy.)	10158	-5	S'W	4	cd₀	57	85	7	800	Nb	10	-	10	1	1012·8	-3	SW'S	4	c	56	85	6	800	St	8	ASt	10	•
Croydon	1016·1	-5	SW	5	or₀₀	56	92	6	800	Nb	10	-	10	2	10137	-2	SW'W	5	c/r	56	85	6	450	Nb	8	ASt	9	•
Shoeburyness	1017·1	-3	SSW	4	c/r	56	97	8	4000	StCu	7	ASt	9	•	10141	-2	SW	4	orr	55	97	7	800	Nb	10	-	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10145	(-3)	S	5	orr	53	97	6	2500	St	10	-	10	
Felixstowe	10187	-3	S'W	5	cr₀	53	92	7	1500	Nb	9	ASt	10	2	10139	-5	SSW	5	orr	53	97	5	800	Nb	10	-	10	6
Lympne	10182	-5	S	5	or₀₀	53	92	8	800	St	10	-	10	2	1015·5	-2	SW'S	6	orr	54	97	5	1500	Nb	10	-	10	•
Scilly (St. Mary's)	10099	-3	SSW	7	c	55	92	6	4000	StCu	9	-	9	•	1008·5	0	SW	7	c/d	54	97	6	2500	Nb	9	-	9	7
Falmouth (Pendennis)	1010·8	-2	SSW	6	c	56	85	7	4000	StCu	10	-	10	•	1009·1	-2	SW	7	cr₀	55	85	6	2500	StCu	7	ASt	10	6
Plymouth (Cattewater)	10127	-1	SW	6	c/r	55	92	7	800	Nb	8	ASt	10	2	1010·1	-3	WSW	7	cr₀	56	85	7	1500	Nb	9	-	9	6
Portland Bill	10128	-4	S'W	6	orr	57	92	4	800	Nb	10	-	10	•	1010·8	-2	SSW	7	c	57	85	6	1500	St	4	ASt	10	7
Southampton (Calshot)	10155	-5	SSW	6	o/r	57	85	6	1500	Nb	10	-	10	2	1013·5	-2	SW	6	c	56	85	7	1500	St	6	ASt	9	3
Dungeness	10193	-3	SSW	4	cdd	56	92	6	800	Nb	10	-	10	•	1015·0	-5	SSW	5	orr	56	92	6	1500	Nb	10	-	10	5
Guernsey (Fort George)	10174	-3	SSW	6	cr₀	58	85	8	800	St	10	-	10	•	1016·2	-2	SW'S	5	c	57	85	8	800	St	10	-	10	6

LONDON OBSERVATIONS. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 9h-21h, other stations.	Height above M.S.L. in feet.	Weather (24 Hours ended 9h) Morning.	Afternoon.	Night.	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day.	Night.†	Sunshine to Sunset, hrs.	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	cd₀	c/r/c	c/fg/bcq	58	52	50	3	1	0·0	*	*	6
Croydon	244	cdc/rm	cd/rr	cm/r/r	57	51	49	8	05	0·0	*	*	7
Greenwich (Royal Obsy.)	149	crd₀	cd₀r	cd.rr₀	57	50	47	5	1	0·0	95	92	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	58	52	49	4		0·0	86	91	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	cp	oro	*	56	52	*	4	05	*	*	81	*
Kensington Palace	80	ocd	o	*	58	51	48	4	1	*	(At 18h) 94	93	*
Hampstead Observatory	450	*	*	*	56	48	44	4	03	0·0	*	89	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 22

South Kensington			
Max.	Time.	Min.	Time.
0·6	8h 21st	<0·3	4h 22nd

Kew Observatory			
Max.	Time.	Min.	Time.
0·1	18h 21st	<0·1	2h 22nd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 21st 17 h. 0 m. to 22nd 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13·30	3·56	29
δ Ursae Minoris	13·30	2·41	20

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.

22nd & 23rd November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·29	11·39	15·49
	7·31	11·39	15·47
Greenwich	7·31	11·46	16·0
	7·33	11·46	15·59
Wick	8·19	11·59	15·37
	8·22	11·59	15·35
Valentia	8·14	12·27	16·40
	8·16	12·27	16·38

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. 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:—br/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, 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.

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

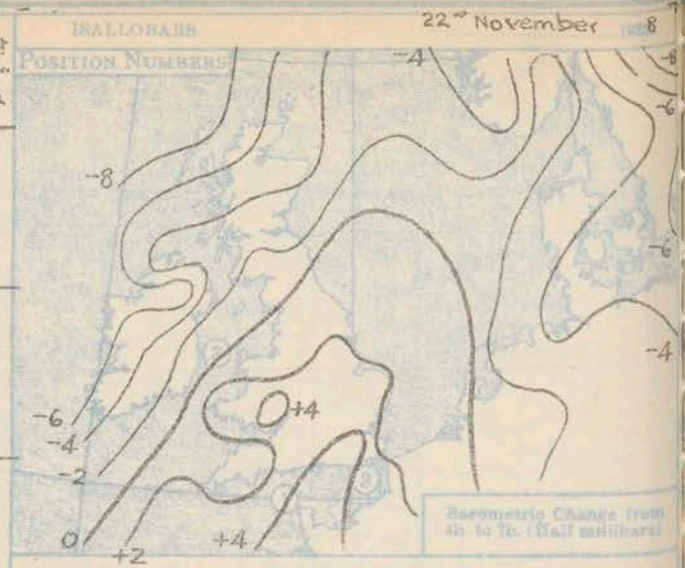
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	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.	6¼ "
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 3 HOURS.

Stations.	Weather. 7h.-18h. 21st	Weather. 18h.-18h. 21st	Weather. 18h. 21st to 1h. 22nd	Weather. 1h.-7h. 22nd	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 21st Hours.
Lerwick	c	corr	orr, bc	bcc	48	45	•	5	14.30	3	<21.00	0.0
Stornoway	r-d	opro	bbc	p	46	37	•	7	<8.00	1	2.30	0.0
Wick	crr	circ	bbc	bbc	50	42	•	2	<8.00	-	-	•
Tiree	rdo	obcpr	opd	dr, rq	52	49	46	3	<8.00	3	<21.00	0.0
Nairn	cR	cbcdp	bccd	c	46	38	•	3	11.00	0.1	22.00	0.3
Aberdeen	orcirir	prochm	bcbm	bccm	49	43	32	3	<8.00	-	-	0.0
Malin Head	cirbc	bccir	cbccid	cidr	55	50	•	3	<8.00	1	22.00	2.8
Renfrew	orrfd	crr	cpc	crq	56	50	48	8	<8.00	1	<21.00	0.8
Edinburgh (Inchkeith)	orrc	crrgro	orrtrbc	bcc	55	49	46	3	<8.00	4	<21.00	1.0
Leuchars	irrc	cbec, p	orc	c	52	48	42	3	<8.00	1	<21.00	0.9
Eskdalemuir	orrmc	corrorm	oirdm	oirdm	52	47	47	10	<8.00	2	<21.00	0.0
Tynemouth	oir	obc	cbc	bcc	54	48	40	3	<8.00	-	-	•
Blacksod Point ...	pc	pbc	ocp	cpcq	55	(49)	•	4	•	7	•	•
Donaghadee	irbc	orrbc	prbc	cir	56	48	•	9	<8.00	1	<21.00	•
Birr Castle	ctir	cir	cir	orrm	55	48	46	1	12.30	5	<21.00	0.5
Holyhead	Dcm	irRr	rdc	c	56	50	49	4	<8.00	1	<21.00	0.0
Liverpool (Bidston) ...	orbc	C	ORcr	c	57	51	48	1	<8.00	3	<21.00	0.0
Chester (Sealand) ...	irdc	c	ordom	occ	59	52	46	3	<8.00	1	<21.00	0.1
Harrogate	ofocir	C	coir	cogir	56	49	47	5	<8.00	7	<21.00	0.0
Spurn Head	orr	opdorc	cpr	cpr	54	50	•	3	<8.00	Tr.	22.00	0.0
Birmingham (Edgbaston)	ord	rc	cpr	cpr	56	49	47	4	<8.00	0.5	<21.00	0.0
Cranwell	odrc	oirc	c	c	57	50	48	2	<8.00	-	-	0.0
Gorleston	orcq	orrq	orbcq	bccq	55	51	47	2	<8.00	0.1	<21.00	0.0
Valentia (Cahirciveen)	ircr	cir	cpbcc	corr	55	50	48	8	<8.00	16	<21.00	0.0
Roches Point	cbc	cirbc	bccpb	cporr	56	50	•	3	9.00	4	<21.00	•
Pembroke (St. Ann's H.)	cRrm	coqrr	cbccirq	cq	56	52	•	1	<8.00	1	<21.00	0.0
Ross-on-Wye	drqRr	dcir	dqrqcq	cq	57	51	48	14	<8.00	0.2	<21.00	0.0
Leafield	oRr	oRR bc	bcc	rpbcc	55	49	47	20	9.00	0.2	24.00	0.0
Winchester (Worthy Dn.)	cdrcrm	orrmc	cr	corm	57	50	46	10	<8.00	1	<21.00	0.0
S. Farnborough ...	id	odrrmc	coro	ocd	56	50	48	5	<8.00	1	<21.00	0.0
London (Kew Obsy.) ...	cd	crc	cpqbccp	c	58	52	50	3	<8.00	1	<21.00	0.0
Croydon	cdrrm	odrr	cmrr	crr	57	51	49	8	<8.00	0.5	<21.00	0.0
Shoeburyness	cddc	corr	oir	oid	56	52	50	3	14.30	1	<21.00	0.0
Clacton-on-Sea ...	ogdr	ogrr	ogdr	ogro	53	50	47	5	9.00	2	<21.00	0.0
Felixstowe	cor	omrr	omrr	bcc	53	51	48	5	<8.00	1	<21.00	0.0
Lympne	cdrcmorr	crorr	orrorrorr	cr	•	50	•	4	<8.00	2	22.00	0.0
Scilly (St. Mary's) ...	crm	cmodc	cpbc	bpc	56	51	•	0.3	<8.00	1	<21.00	0.0
Falmouth (Pendennis)	cmrq	cormq	ormbcq	bbprq	56	51	•	2	<8.00	2	<21.00	0.0
Plymouth (Cattewater)	orrqcd	coqmrbcl	cqprbc	cqpr	57	50	48	5	<8.00	1	<21.00	0.0
Portland Bill	oidmorrm	orrc3	cbccirir	bccqpc	58	53	•	3	<8.00	2	<21.00	•
Southampton (Calshot)	cdroidm	orRRicc	cdd	c	58	53	49	5	<8.00	0.1	<21.00	0.0
Dungeness	cdodd	odorr	orrcqrqr	crqc	57	52	•	3	11.00	3	<21.00	•
Guernsey	cirq	crrq	rbc	ocq	59	51	•	3	<8.00	1	<21.00	0.3



Observations from Crew Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	21st 10h	Scotia	SE	6	c/r	56	55	6
3	22nd 2h.	Dieppe	WSW	6	C	57	55	7

GENERAL INFERENCE.

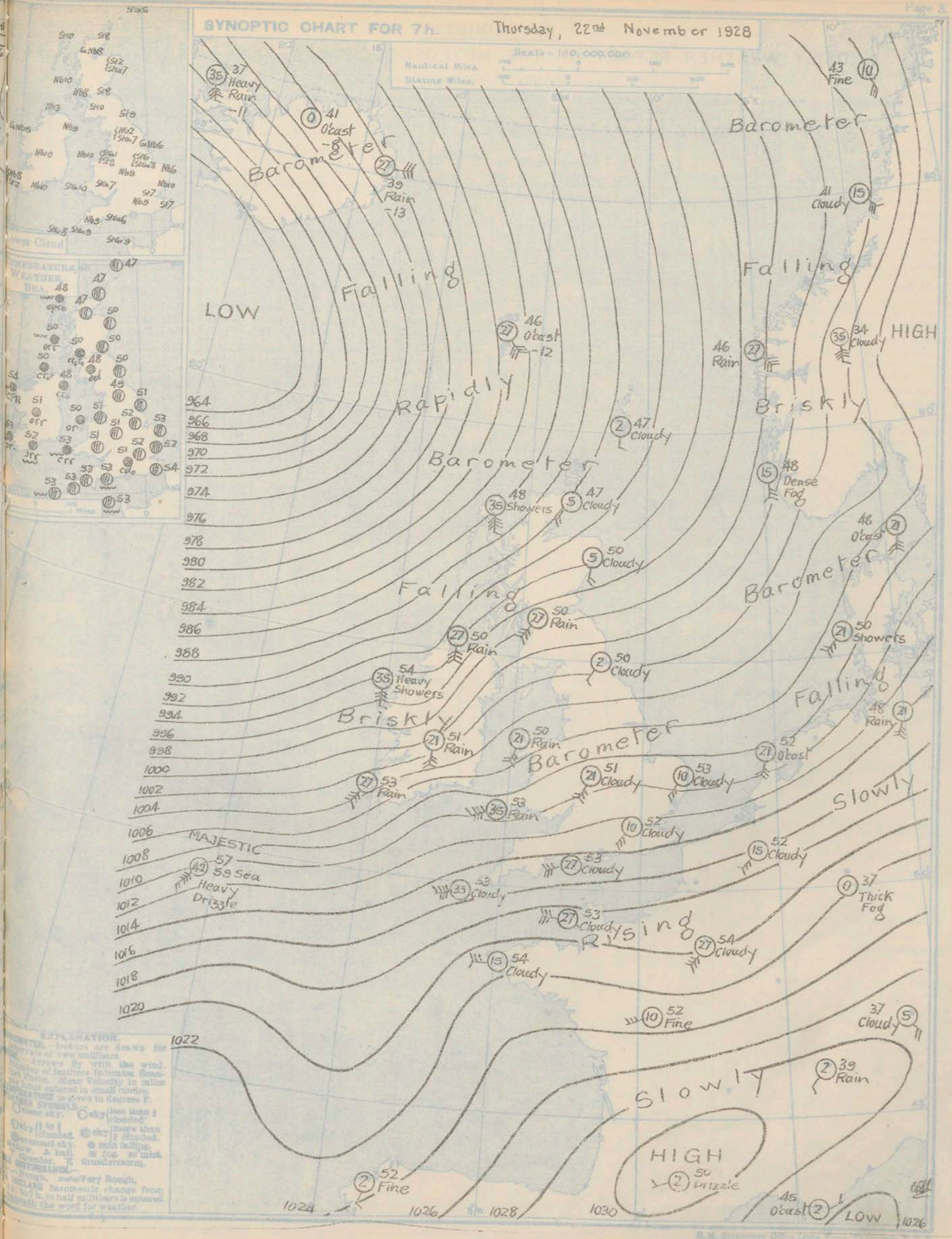
A new and very deep depression centred to the southwest of Iceland is extending eastwards. Cloudy weather with rain and gales will occur in all districts, but with some improvement later in the North and West.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 22nd November, 1928.	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 ▼	South to southwest wind, strong to a gale; cloudy, continuous rain at first, intermittent rain later; coastal mist; mild.	Continuing unsettled.
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 ▼	Southerly winds, strong to a gale; cloudy, continuous rain at first, squally showers later; rather mild at first, becoming cooler.	▼South cone hoisted 3h.15m. G.M.T. today in districts 8,12, 13,17, and 18; and at 9h.10m. G.M.T. today in districts 1,2, 10,11,15 and 16; still flying other coasts British Isles.
17. N.W. Ireland ▼ 18. N.E. Ireland ▼ 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	South to southwest winds, strong to a gale; cloudy, occasional rain or drizzle; coastal mist; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0925 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h. Thursday, 22nd November 1928
LOW
HIGH
Barometer Falling Rapidly
Barometer Falling Briskly
Barometer Falling Slowly
Barometer Rising Briskly
Barometer Rising Slowly
MAJESTIC
964
966
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
1020
1022
1024
1026
1028
1030
35 37 Heavy Rain -11
0 41 O'cast -8
27 39 Rain -13
27 46 O'cast -12
2 47 Cloudy
35 48 Showers
5 47 Cloudy
5 50 Cloudy
27 50 Rain
27 50 Rain
2 50 Cloudy
35 54 Heavy Showers
21 51 Rain
21 50 Rain
27 53 Rain
35 53 Rain
21 51 Cloudy
10 53 Cloudy
21 52 O'cast
10 52 Cloudy
27 53 Cloudy
35 53 Cloudy
27 53 Cloudy
15 54 Cloudy
27 54 Cloudy
15 52 Cloudy
42 57 59 Sea Heavy Drizzle
10 52 Fine
2 52 Fine
2 50 Drizzle
2 39 Rain
5 37 Cloudy
0 37 Thick Fog
45 O'cast
10 43 Fine
15 41 Cloudy
35 34 Cloudy
27 46 Rain
15 48 Dense Fog
21 46 O'cast
21 50 Showers
21 48 Rain

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION...THURSDAY, 22ND NOVEMBER.....1928. No. 327...

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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10
Lerwick	54	993.1	-1	S	2	bc	47	97	8	1500	Stcu	3	-	3
Stornoway	89	995.2	-2	SE	2	c+	*	*	7	*	*	*	*	8
Wick	81	995.6	-2	SW	2	bc	44	92	8	2500	Stcu	4	Cist	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	67	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	998.7	+1	SW	4	cd	50	97	7	1500	St	9	-	9
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	140	998.3	-2	SW	3	bc	51	92	8	1600	St	4	Rcu	5
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	784	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	37	1000.7	0	SW	2	b-	49	97	7	1500	Cu	2	-	2
Blacksod Point ...	18	999.0	+1	S	5	O/PR	49	92	6	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead ...	20	1004.2	+3	WSW	5	C	53	85	7	1500	St	7	RSu	10
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	14	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1003.5	-1	SSW	5	C	53	92	6	4000	CuNb	6	RSt	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	338	1005.6	-2	SSW	5	C	54	85	7	4000	Stcu	5	RSt	9
Gorleston	14	1008.4	-2	SSW	4	bc-	54	92	7	-	-	0	RSt	4
Valentia (Cahirciveen) ‡	30	1009.0	0	SW	4	O/r	51	92	6	-	St	10	-	10
Roches Point	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1006.7	+3	WSW	5	C	54	85	6	1500	Stcu	8	-	8
Ross-on-Wye	295	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	55	*	*	*	*	*	*	*
Croydon	244	1010.6	-1	W	5	C/r,	55	55	7	800	Nb	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1011.7	-2	WSW	6	C/r	53	37	7	1600	Nb	10	-	10
Scilly (St. Mary's) ...	163	1013.5	+3	W	7	b	52	85	8	4000	Cu	2	-	2
Falmouth (Pendennis)	200	1012.8	+3	W	5	bc/p	52	85	7	4000	CuNb	6	-	6
Plymouth (Castewater)	62	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1010.2	+1	WSW	6	bc-	55	85	6	2500	Stcu	4	-	4
Southampton (Calshot)	10	1011.5	-1	W'S	5	c/d	55	85	7	3500	St	9	-	9
Dungeness	20	1011.4	-3	SW	7	O/PR	55	85	7	1500	Nb	10	-	10
Guernsey (Fort George) ‡	268	1006.2	0	WSW	4	bc+	53	92	7	4000	Stcu	4	-	4

Stations.	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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	990.1	-4	S	1	C	47	97	8	1500	Stcu	5	RSu	9	*
Stornoway	985.7	-8	S	7	O/pc	48	92	6	1500	St	10	-	10	6
Wick	990.5	-6	SW	2	C	47	97	8	2500	St	8	-	8	0
Tiree	990.1	-8	SE	6	Orr	50	97	6	450	Nb	10	-	10	6
Nairn	990.4	*	-	0	c+	47	92	7	1500	CuNb	8	-	8	*
Aberdeen	993.2	-5	SSW	2	C	50	92	6	1500	Stcu	9	-	9	0
Malin Head	992.2	-3	S	6	Cr c+	50	97	7	4000	Nb	3	RSt	10	4
Renfrew	997.4	-3	SW	6	Cr c.	50	92	7	1500	Nb	8	RSt	10	*
Edinburgh (Inchkeith)	996.5	-3	WSW	4	C	50	95	8	1500	St	8	Rcu	10	2
Leuchars	996.2	-3	SW	4	C	51	85	8	1500	Stcu	10	-	10	*
Eskdalemuir	999.2	-1	SWS	5	Ocl	48	92	6	1500	St	10	-	10	*
Tynemouth	1000.8	0	SW	1	c+	50	92	7	1500	St	9	-	9	1
Blacksod Point ...	994.3	-6	S	7	C/PR	54	92	7	*	CuNb	9	-	9	7
Donaghadee	1000.7	-3	SWW	3	Cc	48	92	8	2500	Nb	9	-	9	3
Birr Castle	999.9	*	S	5	orr	51	92	5	800	Nb	10	-	10	*
Holyhead ...	1006.2	0	SWS	5	Or	50	92	5	800	Nb	10	-	10	5
Liverpool (Bidston) ...	1006.2	0	WSW	4	C	51	75	8	4000	St	9	-	9	*
Chester (Sealand) ...	1006.0	+1	SWW	4	C	52	75	8	2500	Stcu	9	-	9	*
Harrogate	1003.9	+1	SW	6	C	49	92	8	2500	Stcu	9	-	9	*
Spurn Head	1005.2	+1	SWW	4	C	51	92	7	4000	CuNb	6	RSt	9	3
Birmingham (Edgbaston)	1005.2	+2	SW	5	C	51	85	8	1500	Nb	9	-	9	*
Cranwell	1007.8	+3	SW	4	C	52	92	7	1500	St	9	-	9	*
Gorleston	1009.1	+2	SWW	3	C	53	92	7	2500	Nb	6	RSt	8	1
Valentia (Cahirciveen) ‡	1003.0	-6	SWS	6	Or-	53	92	6	1500	Nb	10	-	10	6
Roches Point	1008.3	-3	SW	6	Orr	52	97	7	800	Nb	10	-	10	6
Pembroke (St. Ann's H.)	1008.9	+3	WSW	7	Crr	53	85	6	800	Stcu	10	-	10	6
Ross-on-Wye	1010.9	+4	WSW	5	C	51	75	7	2500	Stcu	7	RSt	9	*
Leafield	1010.8	+3	SWW	4	C	50	85	8	2500	Stcu	9	-	9	*
Winchester (Worthy Dn.)	1013.8	+3	SW	4	Or,	51	85	6	800	Nb	10	-	10	*
S. Farnborough ...	1012.9	+3	SW	4	Cdo	51	92	7	450	Nb	9	-	9	*
London (Kew Obsy.) ...	1012.7	+3	SWW	3	C	52	85	6	1500	St	7	Rcu	8	*
Croydon	1012.6	+4	W'S	5	C/r	51	85	7	800	Stcu	10	-	10	*
Shoeburyness	1012.0	+4	SW	4	Cdo	53	92	7	4000	Stcu	9	RSt	10	*
Clacton-on-Sea ...	1011.3	0	WSW	4	O	52	85	6	4000	Nb	10	-	10	3
Felixstowe	1010.0	+1	SW	5	C	52	85	7	1500	Stcu	9	-	9	3
Lympne	1013.3	+2	W'S	4	Cr,	52	85	7	1500	St	10	-	10	*
Scilly (St. Mary's) ...	1015.1	+3	WSW	7	C	53	85	7	4000	Stcu	8	-	8	7
Falmouth (Pendennis)	1015.4	+1	W'S	5	C+	53	75	8	4000	Stcu	9	-	9	1
Plymouth (Castewater)	1015.7	+1	W	5	C	53	85	8	2500	Nb	9	RSt	10	3
Portland Bill	1014.3	+2	WSW	6	C	53	85	8	1500	Stcu	6	RSt	10	7
Southampton (Calshot)	1014.7	+4	W	5	C	53	75	7	1500	St	9	-	9	3
Dungeness	1013.3	+4	WSW	5	C-	53	92	7	800	St	7	CiSt	10	4
Guernsey (Fort George) ‡	1012.0	+4	W'N	6	C	53	65	8	4000	Stcu	9	-	9	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21st November 1928.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. (9h. 20 to 9h. 21) °C.	Temperature. Max. (9h.-17h. 21) °F.	Rainfall†. Night 17h.-9h. 20-21 mm.	Rainfall†. Day 9h.-17h. 21 mm.	Sunshine. Sunrise to Sunset. 21 hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c/c	c	45	54	*	0.4	0.0
Douglas (I. o. M.) ...	co	d	43	55	12	0.3	0.0
Llandudno ...	c	cbcdc	49	61	1	Trace	0.7
Colwyn Bay ...	crcc	cocrc	50	59	3	0.5	0.0
Rhyl	cp	bc	46	59	2	0.3	0.4
Walltasey	ocr	cpc	47	58	1	1	0.0
Southport	ocr	ocr	46	56	2	3	0.0
Blackpool	or	or	46	56	3	2	0.0
Ilkley	or	occ	44	52	*	2	0.0
Cleethorpes	ro	oro	43	56	7	1	0.0
Skegness	bcc	opro	45	54	Trace	3	0.0
Aberystwyth ...	crrc	cr	50	53	9	0.3	0.0
Bath	crr	rrc	49	59	3	12	0.0
Cheltenham‖ ...	orr	orcc	48	58	1	11	0.0
Leamington Spa ...	or	or	46	57	1	16	0.0
Lowestoft	o	or	46	53	1	2	0.0
Harwich & Dovercourt	rdoc	roc	46	53	1	*	0.0
Maldon	rod	rr	44	56	1	*	0.0
Southend	or	or	43	55	0.4	3	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ogb	odc	49	59	1	0.4	0.0
Penzance	co	on	54	57	6	-	0.0
Paignton	orrng	orgpb	50	57	7	18	0.0
Torquay	orgm	orgpm	54	57	6	15	0.0
Jersey	cbc	rc	52	59	0.2	1	1.0
Weymouth	or	ocr	52	57	3	1.4	0.0
Bournemouth ...	orr	rro	51	57	3	7	0.0
Ventnor ...	odno	oroc	50	56	1	5	0.0
Portsmouth (S'thsea)	ocr	ocrc	51	57	3	7	0.0
Bognor	ocd	oRr	52	56	1	1.4	0.0
Littlehampton ...	crc	cr	52	56	1	5	0.0
Worthing	ccr	cop	52	56	1	6	0.0
Brighton	ro	rocor	52	57	1	5	0.0
Eastbourne‖	o	orr	51	57	0.4	2	0.0
Hastings‖	obdc	odor	49	58	1	1	0.0
Folkestone	ocr	orr	48	57	0.1	1	0.0
Dover	ocd	cor	49	57	0.2	2	0.0
Tunbridge Wells ...	oro	or	49	56	2	8	0.0
Ramsgate	c	cr	48	56	-	0.5	0.2
Margate	cdc	cr	48	57	Trace	1	0.0
Deal	od	do	47	57	0.5	1	0.0

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* Information not usually received. ‡ The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. ⊕ 12h.-4h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Observations at 13h. G.M.T. 22nd

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	982.6	-6	S'W	3	or°f°	49	92	7	1500	Nb	10	-	10	•
Stornoway	982.3	0	WSW	3	c	49	85	7	4000	CuNb	4	ACu	8	•
Wick	983.6	-7	SW	3	o|pr°	50	85	7	1500	Nb	10	-	10	•
Tiree	987.5	0	W	6	bc|r°	49	92	8	1500	StCu	7	-	7	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	987.5	-8	SSW	3	c|r	49	92	7	1500	Nb	9	ASt	10	2
Malin Head	991.6	+1	WSW	6	cr	48	92	7	4000	CuNb	9	-	9	•
Renfrew	990.5	-6	WSW	5	c|r	52	85	7	4000	CuNb	9 (red)	-	9 (red)	2
Edinburgh (Inchkeith)	989.1	-6	SW	5	or	51	85	8	2500	Nb	10	-	10	•
Leuchars	988.5	-7	SSW	5	cr°	51	92	8	800	Nb	9	ASt	10	2
Eskdalemuir	992.0	-9	SW'S	6	o|r°	49	85	7	1500	Nb	10	-	10	2
Tynemouth	994.9	-7	SSW	5	c	54	85	7	1500	Cu	8	-	8	•
Blacksod Point	995.5	+2	WSW	7	c	47	85	8	-	CuNb	9	-	9	•
Donaghadee	994.2	-4	W	6	bc-	52	85	7	2500	Nb	5	CiCu	7	•
Birr Castle	998.5	•	SW	5	c-	53	85	7	1500	Cu	8	-	8	•
Holyhead	999.2	-7	SW	6	cd°	54	92	6	1500	St	9	ASt	10	2
Liverpool (Bidston)	998.7	-8	SW'W	7	cr°r°	53	85	7	2500	Nb	9	CiSt	9	•
Chester (Sealand)	999.5	-10	SW'W	6	crr	55	85	7	800	Nb	8	ACu	9	2
Harrogate	997.7	-9	SW	8	or	50	85	7	2500	Nb	3	ASt	8	•
Spurn Head	1000.7	-5	SW'S	7	c	50	85	6	4000	CuNb	6	CiSt	10	•
Birmingham (Edgbaston)	1004.4	-7	SW	5	o|p	51	85	8	1500	Nb	10	-	10	2
Cranwell	1003.6	-8	SW	6	c|r	51	85	7	800	Nb	6	ASt	10	1
Gorleston	1008.3	-7	SW	5	or°r°	52	92	6	2500	Nb	10	-	10	•
Valentia (Cahirciveen)	1003.8	+3	SW'W	6	c	54	75	8	2500	St	10	-	10	2
Roches Point	1003.9	-3	W	4	c	55	85	8	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	1003.0	-6	SW	8	orr	53	92	4	450	St	10	-	10	•
Ross-on-Wye	1008.5	-6	SW'W	6	od°	51	92	6	2500	Nb	10	-	10	2
Leafield	1007.9	-4	SW'S	6	cr°	48	92	8	2500	StCu	10	-	10	2
Winchester (Worthy Dn.)	1011.5	-5	SSW	4	or	51	85	7	800	Nb	10	-	10	2
S. Farnborough	1011.1	-6	SW'W	5	or°r°	51	85	7	800	St	10	-	10	2
London (Kew Obsy.)	1010.5	-5	SW	5	or°r°	52	85	5	1500	Nb	10	-	10	2
Croydon	1011.9	-4	WSW	5	cr°r°	51	85	6	800	Nb	8	ASt	10	2
Shoeburyness	1010.0	-2	SW'W	5	or°	52	97	7	800	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1010.6	-3	SW	4	crr	51	85	7	800	Nb	8	ASt	10	2
Lympne	1013.1	-4	WSW	5	or°	52	85	7	800	St	10	-	10	2
Scilly (St. Mary's)	1012.5	-3	SW	8	oR-	53	97	6	2500	Nb	10	-	10	•
Falmouth (Pendennis)	1012.2	-4	WSW	6	orr	53	92	6	2500	Nb	10	-	10	•
Plymouth (Cattewater)	1012.5	-6	SW	7	or°r°	53	97	6	800	Nb	10	-	10	2
Portland Bill	1011.8	-5	SW	7	cr°	54	85	6	1500	St	9	ASt	10	•
Southampton (Calshot)	1012.9	-4	WSW	6	cr°	53	85	6	1500	Nb	9	ASt	10	1
Dungeness	1012.8	-2	WSW	5	cr°r°	54	85	7	1500	StCu	10	-	10	•
Guernsey (Fort George)	1017.7	-4	WSW	6	crr	54	85	7	800	Nb	7	ASt	10	•

Observations at 18h. G.M.T. 22nd

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	Sea. 0-9
Lerwick	978.8	-6	SW	3	c|p	48	97	7	1500	CuNb	7	ASt	10	•
Stornoway	982.8	0	WSW	3	bc|pR	42	92	7	4000	CuNb	6	-	6	2
Wick	983.5	+2	WSW	3	c	44	92	8	1500	CuNb	6	CiSt	8	1
Tiree	988.8	+1	W	6	bc|PR	46	92	7	1500	CuNb	5	-	5	7
Nairn	986.1	•	W	1	bc-	42	85	8	2500	Cu	4	-	4	•
Aberdeen	986.7	+2	WSW	3	bc	46	75	7	4000	StCu	1	ACu	3	0
Malin Head	993.8	+2	W	6	~~[struck out]~~ be|pro (red)	45	85	8	4000	CuNb	3	ACu	3	6
Renfrew	993.0	+4	WSW	3	b-	45	85	8	4000	CuNb	1	-	1	•
Edinburgh (Inchkeith)	990.8	-3	SW	5	or	46	75	8	2500	St	10	-	10	3
Leuchars	989.7	+4	W	6	bcr	45	85	8	800	CuNb	7	-	7	•
Eskdalemuir	994.0	+5	WSW	5	bc	43	75	7	2500	Cu	7	-	7	•
Tynemouth	993.6	0	W	5	or°	50	75	7	1500	Nb	10	-	10	2
Blacksod Point	997.8	+1	WSW	8	c	49	75	7	•	CuNb	9	-	9	8
Donaghadee	996.7	+4	W	5	b-	45	75	8	4000	Cu	2	-	2	4
Birr Castle	1000.6	•	WSW	3	bc-	45	87	5 (red)	1500	Cu	4	-	4	•
Holyhead	1001.3	+4	W'S	6	b-	50	75	6	5700	StCu	1	-	1	6
Liverpool (Bidston)	998.8	+2	W	7	c|r	48	92 (red)	7	2500	Nb	3	ACu	8	•
Chester (Sealand)	1000.0	+4	W	5	bc-	51	75	8	2500	StCu	3	-	3	•
Harrogate	996.9	0	SW	7	b|r	48	75	7	-	-	0	ACu	1	•
Spurn Head	997.6	0	WSW	3	bc-	51	85	7	4000	Nb	5	-	5	3
Birmingham (Edgbaston)	1002.5	+2	SW	4	c+	51	85	7	1500	Nb	8	-	8	•
Cranwell	999.8	-3	WSW	5	b|r	52	92	8	2500	StCu	1	-	1	•
Gorleston	1004.0	-4	SW	6	o	51	92	6	2500	Nb	10	-	10	4
Valentia (Cahirciveen)	1006.3	+4	WSW	5	c|p	49	85	7	1500	St	10	-	10	6
Roches Point	1005.9	+3	WNW	4	c|d	51	75	8	1500	CuNb	8	-	8	6
Pembroke (St. Ann's H.)	1003.5	+2	WSW	6	c|d	54	85	5	1500	StCu	9	-	9	6
Ross-on-Wye	1004.3	-1	WSW	5	c|d	53	75	8	4000	Cu	3	CiSt	8	•
Leafield	1004.2	-3	SW'W	5	bcr	51	97	7	2500	Nb	7	-	7	•
Winchester (Worthy Dn.)	1007.7	-5	SSW	5	od	53	92	7	800	Nb	10	-	10	•
S. Farnborough	1006.6	-6	SW	6	or°r°	53	92	6	450	Nb	10	-	10	•
London (Kew Obsy.)	1006.4	-6	SW	5	c	54	92	7	1500	St	8	ASt	10	•
Croydon	1007.1	-5	WSW	5	cr°	53	92	6	800	Nb	8	ASt	10	•
Shoeburyness	1006.2	-6	SW	5	o|r	54	97	8	800	St	10	-	10	•
Clacton-on-Sea	1006.1	-4	WSW	5	o	52	85	6	4000	Nb	10	-	10	4
Felixstowe	1005.4	-6	SW'S	5	o	52	85	7	1500	St	10	-	10	5
Lympne	1008.5	-5	SW'W	7	or°r°	51	97	5	450	Nb	10	-	10	•
Scilly (St. Mary's)	1010.9	+1	W'S	6	c|r	52	97	7	4000	StCu	10	-	10	7
Falmouth (Pendennis)	1010.5	0	WNW	4	or-	54	97	6	2500	Nb	10	-	10	2
Plymouth (Cattewater)	1010.1	0	W	6	or°r°	54	97	6	800	Nb	10	-	10	5
Portland Bill	1007.6	-5	SW'W	7	cr°	55	92	6	1500	St	8	ASt	10	7
Southampton (Calshot)	1008.6	-4	W'S	6	or°	54	97	6	800	Nb	10	-	10	6
Dungeness	1008.5	-8	SW	7	orr	53	97	7	1500	Nb	10	-	10	6
Guernsey (Fort George)	1014.1	-3	WSW	7	odd	53	97	5	450	St	10	-	10	6

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

Station	Height above M.S.L. in feet.	Weather Morning	Weather Afternoon	Weather Night (24 Hours ended 9h.)	Temp. Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 18h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	crr	cr°rc	cr°c	54	49	46	2	01	0.0	•	•	6
Croydon	244	cddDcr	cr°d°c,m	cr°r°bcq	53	49	45	2	22	0.0	•	•	5
Greenwich (Royal Obsy.)	149	cr°	cr°r°	cr°pbq	55	48	43	2	4	0.0	87	95	6
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	55	49	44	5		0.0	92	85	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	c	or°r°r°	•	53	50	-	2	4	•	•	97	•
Kensington Palace	80	c|p	od	•	53	49	43	2	4	•	(At 18h) 93	93	•
Hampstead Observatory	450	•	•	•	53	45	37	3	4	0.0	•	97	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 23rd

South Kensington

Max.	Time.	Min.	Time.
Defective record			

Kew Observatory

Max.	Time.	Min.	Time.
0.2	8h 22nd	<0.1	2h 23rd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 22nd 17 h. 0 m. to 23rd 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 30	3 15	24
δ Ursae Minoris	13 30	2 32	19

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, impedi[ng] traffic, usually a continuous layer).
9=Glazed road surface on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.
23rd & 24th November, 1928.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.31	11.39	15.47
	7.33	11.40	15.46
Greenwich	7.33	11.46	15.50
	7.35	11.47	15.58
Wick	8.22	11.59	15.35
	8.24	11.59	15.34
Valentia	8.16	12.27	16.38
	8.19	12.28	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—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, 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.

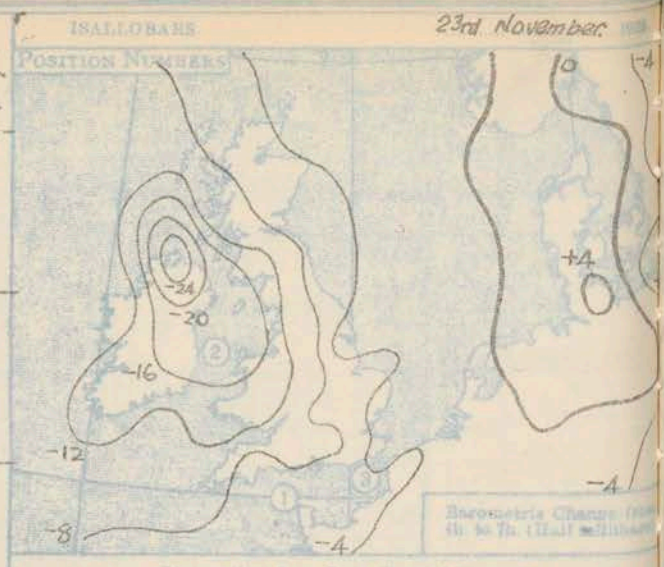
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent 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. 22nd.	Weather. 13h.-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. 7h.-18h. began.	Rainfall. Night. 18h.-7h. mm.	Rainfall. Night. 18h.-7h. began.	Sun 22nd. Hours.
Lerwick	corr	or.rc	cipr.	cipr.	50	44	•	4	11.00	2	<21.00	0.0
Stornoway	orrc	p	p	p	50	41	•	7	<8.00	9	<21.00	0.1
Wick	copr	cp.rc	bcpr.	pr.bc	51	39	•	1	9.00	1	24.00	•
Tiree	rrpq	pr bcq	el Rq	pRC	52	44	40	3	<8.00	3	<21.00	0.8
Nairn	cpd	cpbc	bcq.PR	cpr	51	40	•	0.5	9.00	3	<21.00	1.1
Aberdeen	corcir	cbc p.bc	bcb	bbcc	51	39	30	2	9.00	–	–	0.0
Malin Head	cqir	cPHRcqpr	bcqPHr	bcPHcr.	50	43	•	4	<8.00	5	<21.00	0.7
Renfrew	orrcqc	cqPbc	bcPc	cprq	52	43	40	7	<8.00	5	<21.00	0.0
Edinburgh (Inchkeith)	crro	.PR	pr bcq	bbc	52	43	41	5	9.00	1	<21.00	0.3
Leuchars	cidir	ircbrcbc	bc.Prcpr.	bcc	52	40	37	3	9.00	1	22.00	0.1
Eskdalemuir	orrm.	cprbc	bccprbcc	cir.	49	39	38	24	<8.00	1	<21.00	0.0
Tynemouth	cq	oirpcq	Oir.bcq	bcc	54	44	39	3	13.30	0.4	<21.00	•
Blacksod Point ...	Pqc	Pqc	Pqo	pq.R	54	47	•	4	•	9	•	•
Donaghadee	crrir	pr bcq	bcq	bccir	52	42	•	2	<8.00	2	4.30	•
Birr Castle	orrc	cirbc	bcwpr	orrq	53	43	39	7	<8.00	11	<21.00	1.8
Holyhead	RRoR	cbcpmbcc	bcc	c, rr	55	48	46	12	<8.00	7	4.30	1.2
Liverpool (Bidston) ...	cr.Q	bqR	Q bwc	cor.	54	46	41	2	<8.00	1	5.30	0.2
Chester (Sealand) ...	crq	prq bc	bc	bcor.m.	57	45	39	1	9.00	0.1	5.30	0.2
Harrogate	cqir	Qcbcirb	bbcQ	bbcQc	51	43	40	1	<8.00	–	–	0.0
Spurn Head	cpr	cprq	bcq	bcc	53	44	•	1	11.00	–	–	0.0
Birmingham (Edgbaston)	cpr.	coir	cpr.bc	bco	52	44	41	5	<8.00	0.4	<21.00	0.0
Cranwell	cir	cr. b	bcc	bcc	53	43	41	0.8	<8.00	–	–	0.0
Gorleston	cor.q	or.rq	or.cqb	bcc	54	45	43	1	11.00	Tr.	<21.00	0.0
Valentia (Cahirciveen)	crr.c	cp	bcpor	Oror	55	48	45	4	<8.00	19	<21.00	0.1
Roches Point	orc	cpq.c	cbcc	corr	56	49	•	3	<8.00	6	3.30	•
Pembroke (St. Ann's H.)	aqrrm	cwcrid	bccq	cpr.rqm	54	46	•	8	<8.00	9	34.00	0.0
Ross-on-Wye	coqid.q	dqrqbcc	bcpbcc	cororr	54	47	43	4	9.00	2	<21.00	0.0
Leafield	cir	orr	bcP	bccor.	51	42	40	3	9.00	4	<21.00	0.0
Winchester (Worthy Dn.)	ormcor	ord	od.RC	cor.	54	47	43	3	<8.00	2	<21.00	0.0
S. Farnborough ...	cd.orq	orr.dar	or.r.o	Or.r.	53	48	45	1	<8.00	0.4	<21.00	0.0
London (Kew Obsy.) ...	crr	crrc	cr.c	c	54	49	46	2	<8.00	0.1	<21.00	0.0
Croydon	oddBr.r.	cor.r.m.	ccr.bcqw	cr.r.	53	49	45	2	<8.00	0.2	<21.00	0.0
Shoeburyness	oir	oir	oid.	om.	55	48	46	0.3	13.30	Tr.	<21.00	0.0
Clacton-on-Sea ...	ogr	agrp.o	ogdog	ogc	52	48	43	1	<8.00	–	–	0.0
Felixstowe	cr	rcc.o	or.c	c	53	47	46	1	11.00	0.2	<21.00	0.0
Lympne	or.cor.	or.r.	ocr.m.cm.	bcmor.m.	52	47	45	1	<8.00	4	<21.00	0.0
Scilly (St. Mary's) ...	coR	omrc	cr	Orr	54	52	•	4	9.00	3	24.00	0.0
Falmouth (Pendennis)	Cormq	om.rrq	om.rq	corqm.	55	51	•	5	<8.00	6	<21.00	0.0
Plymouth (Cattewater)	coqrrm.	orrqm.	omqrr	omqRrr	55	51	48	7	<8.00	5	22.00	0.0
Portland Bill	cir.3.	crr.3.	oqiRc	cocr.z.	55	52	•	4	<8.00	3	<21.00	•
Southampton (Calshot)	cirq	or.r.rqm	crm.q	corrm.	54	51	48	4	11.00	1	<21.00	0.0
Dungeness	cr	cr.orr	oqrrc	bccd.	55	51	•	1	13.30	3	<21.00	•
Guernsey	cl.q	crrqqm.	opro	orrqcm.	54	~~49~~ 52	•	3	<8.00	7	<21.00	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	22nd 10h	Scotia	SW	6	C+	54	54
3	23rd 2h	Brighton	WSW	6	C+	55	50

GENERAL INFERENCE.

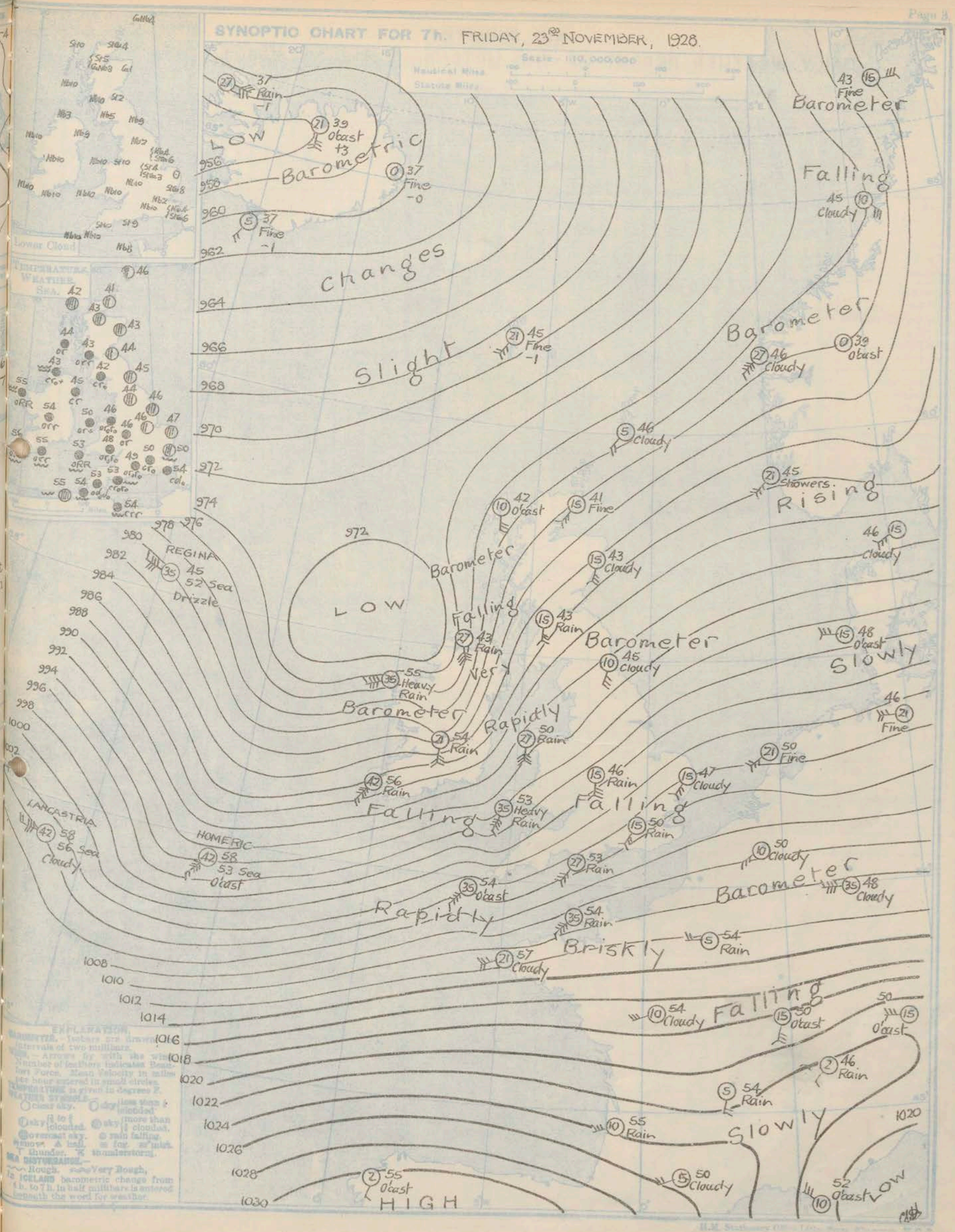
Two very deep depressions, one over Iceland which is almost stationary and another centred near the Southern Hebrides moving between east and northeast will maintain cloudy weather with rain in all districts and winds of gale force.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 23rd. November, 1928.	Further Outlook.
1. S.E. England ✝ 2. E. England ✝ 3. E. Midlands	Southwesterly winds, reaching gale force inland and a strong gale on the coast; cloudy, continuous rain at first, becoming intermittent ; mild.	Stormy and unsettled; cooler in the North.
4. W. Midlands 5. S.W. England ✝ 6. South Wales ✝ 7. North Wales ✝ 8. N.W. England ✝ 9. N. Midlands 10. N.E. England ✝	Southwesterly winds, reaching gale force inland and a strong gale on the coast; cloudy, occasional rain; mild.	✝ South Cone still flying.
11. S.E. Scotland ✝ 12. S.W. Scotland & Isle of Man ✝	Southwesterly winds, reaching gale force inland and a strong gale on the coast; cloudy, occasional rain; moderate temperature.	
13. A. W. Scotland B. N.W. Scotland ✝ 14. Mid-Scotland 15. N.E. Scotland ✝ 16. Orkneys and Shetlands ✝	Strong southeasterly winds, changing to southwesterly temporarily and rising to a gale, backing later; cloudy with rain at first, heavy showers of rain or hail later but rain again tomorrow; 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 0935 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page i

Trace = rain has fallen, but amount less than 0·1 mm.


SYNOPTIC CHART FOR 7h. FRIDAY, 23RD NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
Barometric
Changes
Slight
Falling
Barometer
Rising
Barometer
Falling
Very
Rapidly
Falling
Rapidly
Briskly
Falling
Slowly
Barometer
Slowly
Falling
Barometer
LOW
HIGH
REGINA
LANCASTRIA
HOMERIC
Lower Cloud
TEMPERATURE
WEATHER
SEA.
EXPLANATION.
BAROMETER.
WIND.
TEMPERATURE
WEATHER SYMBOLS
SEA DISTURBANCE.
In ICELAND barometric change from 1h. to 7h. in half millibars is entered beneath the word for weather.

M.O. Form 2570.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Friday 23rd November.....1928. No. 328....

Stations.	Height above M.S.L. in feet	Observations at 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	Observations at 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. 0-9
Lerwick	64	9784	-1	SW	3	c/p	46	85	7	1500	c.Nb	6	As6	8	9764	-2	SW	2	c/p	46	85	7	1500	c.Nb	4	As	8	•
Stornoway	30	9836	+1	W	6	c/pR	•	•	7	•	•	•	•	8	9772	-7	S	3	o/r	42	85	6	1500	St	10	-	10	2
Wick	81	9832	-1	SW	4	bc/pc	44	85	8	1500	c.Nb	4	-	4	9805	-4	SW	4	bc	41	92	8	2500	Stc	4	c.St	5	1
Tiree	32	•	•	•	•	•	•	•	•	•	•	•	•	•	9783	-12	S	4	o/r	44	97	7	1500	Nb	10	-	10	1
Nairn	83	•	•	•	•	•	•	•	•	•	•	•	•	•	9801	•	W	1	c/r	43	~~[illegible]~~	8	1500	St	8	-	8	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	9848	-5	SSW	4	c	43	85	7	1500	Cu	1	Acu	9	0
Malin Head	61	9942	0	W	6	bc/pR	46	92	7	4000	c.Nb	5	-	5	9760	-27	SSE	6	cr/o+	43	97	7	4000	Nb	3	As	10	8
Renfrew	28	•	•	•	•	•	•	•	•	•	•	•	•	•	9855	-9	S	4	o/r	43	92	6	800	Nb	10	-	10	•
Edinburgh (Inchkeith)	100	9912	+2	WSW	6	bc/r	45	85	8	2500	Nb	5	-	5	9853	-9	SSW	5	bc	44	75	8	1500	~~[illegible]~~	2	As	7	3
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	9857	-6	SW	5	c+	43	85	7	-	-	0	As	9	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	9876	-14	SSW	5	cr/o	42	85	7	1500	Nb	6	As	10	•
Tynemouth	87	9956	+1	W	4	bc	46	76	7	1500	St	3	-	3	9901	-5	SSW	3	c	45	85	7	1500	Nb	9	-	9	2
Blackrod Point ...	18	9965	-1	WSW	6	c	49	75	6	•	-	0	As	10	9742	-9	WSW	7	ORR	55	97	6	•	Nb	10	-	10	8
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	9846	-17	SSW	6	cr	45	92	6	1500	Nb	9	-	9	4
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•	9797	•	S	5	o/r	54	92	6	800	Nb	10	-	10	•
Holyhead	26	10032	0	WSW	5	c	49	75	7	800	St	1	As	9	9906	-18	S	6	or+	50	92	5	450	Nb	10	-	10	5
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	9917	-12	S	4	or.r.	46	85	7	1500	St	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	9939	-13	S	3	or.r.	47	85	6	2500	Nb	10	-	10	•
Harrogate	479	•	•	•	•	•	•	•	•	•	•	•	•	•	9932	-8	S	4	c	44	85	6	2500	Nb	2	As	10	•
Spurn Head	29	10000	+2	WSW	5	bc	46	85	7	-	-	0	As	4	9968	-3	SW	5	c+	46	85	7	4000	Stc	10	-	10	3
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	9977	-9	S	4	or	46	92	7	800	Nb	10	-	10	•
Cranwell	236	10028	+1	WS	4	bc+	44	92	7	-	-	0	As	4	9982	-4	SSW	4	bc+	46	85	7	4000	St	7	-	7	•
Gorleston	14	10029	+2	WN	3	bc	48	85	7	-	-	0	Acu	3	10021	-4	SW	4	c	47	85	7	-	-	0	As	9	0
Valentia (Cahirciveen) P	30	10049	-7	WSW	4	or+	50	97	6	-	St	10	-	10	9854	-14	SW	8	or-	56	92	6	1500	Nb	10	-	10	7
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	9801	-12	W	6	or.r	55	97	7	800	Nb	10	-	10	6
Pembroke (St. Ann's H.)	160	10057	0	W	5	c/pc	53	85	7	800	Stc	10	-	10	9844	-13	SWS	7	ORR	53	97	6	800	Nb	10	-	10	6
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	9875	-11	SW	5	or.r.	48	92	7	2500	Nb	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	9938	-7	SSW	4	or.r.	46	92	7	1500	Nb	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	10034	-4	S	4	or.	50	85	6	800	Nb	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	10013	-3	SSW	4	or.r.	49	92	7	450	Nb	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	51	•	•	•	•	•	•	•	10023	-7	SWS	4	cr.	50	85	7	1500	Nb	2	As	10	•
Croydon	344	10077	+2	WS	4	c	50	75	8	-	-	0	c.St	8	10043	-6	SW	4	cr.r.	50	85	6	800	St	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	10041	-4	SW	4	od.+	51	97	6	1500	St	10	-	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	10042	-3	SW	4	c	50	85	7	4000	Stc	8	-	8	3
Felixstowe	16	•	•	•	•	•	•	•	•	•	•	•	•	•	10036	-2	SSW	5	c	50	85	7	4000	Stc	10	-	10	6
Lympne	350	10077	+2	W	5	bc	50	92	6	1500	Stc	4	c	7	10063	-3	WSW	5	or.	49	92	6	1500	St	10	-	10	•
Scilly (St. Mary's) ...	163	10116	0	WS	6	cr.r.	53	92	6	4000	Nb	10	-	10	10034	-9	SWW	7	o/r	55	97	7	4000	Nb	10	-	10	7
Falmouth (Pendennis)	200	10107	0	WNW	3	c	53	85	7	4000	Stc	10	-	10	10015	-9	SW	7	or.r	54	97	6	2500	Nb	10	-	10	6
Plymouth (Cattewater)	52	•	•	•	•	•	•	•	•	•	•	•	•	•	10017	-16	SW	6	od.d.	53	97	6	450	St	10	-	10	5
Portland Bill	32	10085	0	WSW	6	c	54	85	8	2500	Stc	8	As	10	10030	-8	SW	6	cr.r.	53	85	6	1500	St	9	As	10	7
Southampton (Calshot)	10	10088	+1	WS	4	c/r	51	85	7	1500	St	9	-	9	10038	-7	WSW	5	or.r	52	85	6	800	Nb	10	-	10	3
Dungeness	20	10076	+3	WSW	4	bc/r	53	85	8	2500	Stc	4	-	4	10040	-4	W	5	cd.	54	85	7	2500	Stc	10	-	10	4
Guernsey (Fort George) P	295	10122	-2	W	4	c+	54	85	6	2500	Stc	10	-	10	10081	-6	SWW	7	or.r	54	97	5	800	Nb	8	As	10	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 22nd November.....

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 22nd to 9h. 23rd	Temperature. Max. 9h.-17h. 22nd	Rainfall. Night 17h.-9h. 21st-22nd	Rainfall. Day 9h.-17h. 22nd	Sunshine. Sunrise to Sunset. 22nd
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	o	c	47	52	0·2	-	0·4
Douglas (I. o. M.) ...	oRR	ocbq	47	52	8	9	0·0
Llandudno ...	r	rcr	50	56	6	6	0·0
Colwyn Bay ...	oroc	corer	50	57	7	6	0·2
Rhyl	bcr	pc	46	56	4	4	0·0
Wallasey	orc	oRccp	50	53	5	3	0·0
Southport	rRr	ocoPHR	*50	53	12	7	0·0
Blackpool	or	coq	49	52	8	5	0·5
Ilkley	oro	rc	48	53	9	5	0·0
Cleethorpes	o	o	50	52	-	-	0·0
Skegness	c	r.bc	51	54	Trace	0·5	0·0
Aberystwyth ...	prr	poc	50	56	6	5	0·0
Bath	cr	crr	51	54	5	4	0·0
Cheltenham ...	o	or	50	56	0·3	0·5	0·0
Leamington Spa ...	o	or	50	53	-	1	0·0
Lowestoft	c	o.r.c.	51	53	0·3	1	0·0
Harwich & Dovercourt	roc	ocr	50	53	3	1	0·0
Maldon	ocr	ocr	50	53	4	1	0·0
Southend	or	or	51	52	1	1	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	od/b	cr/p	49	54	1	10	0·0
Penzance ...	o/r	or	52	57	5	3	0·0
Paignton ...	o/p	or.od	51	54	0·5	6	0·0
Torquay	o/p	ordqdm	51	57	1	3	0·0
Jersey	d/c	cr	52	55	Trace	1	0·0
Weymouth ...	co	or	51	55	0·2	5	0·0
Bournemouth ...	or	or	51	53	0·3	3	0·0
Ventnor ...	oru	or	51	53	2	4	0·0
Portsmouth (S'thsea)	o	or	52	54	1	4	0·0
Bognor	coid	rr	52	54	3	3	0·0
Littlehampton ...	cr	cr	52	54	6	3	0·0
Worthing	cor	or.r.	52	54	4	4	0·0
Brighton	roco	ror	52	54	8	4	0·0
Eastbourne‖	or.	r.rr	53	57	5	4	0·0
Hastings‖	oco	oporr	52	57	7	3	0·0
Folkestone	or.	or.m.	52	55	7	0·5	0·0
Dover	c	cor	53	54	6	2	0·0
Tunbridge Wells ...	oro	oro	52	53	5	2	0·0
Ramsgate	c	cd	54	54	2	0·3	0·4
Margate	c/c.	c/c.	52	54	2	1	0·4
Deal	o	od.c	52	55	6	1	0·0

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* Information not usually received. P The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. ‡ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24474 Saturday 24th November 1928.

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 Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	971.0	-6	SW	2	cjp	45	85	7	1500	CuNb	4	ASt	9	•
Stornoway	965.5	-10	NE	1	orr	42	97	6	1500	Nb	10	-	10	•
Wick	967.7	-14	S	3	cror	43	85	8	1500	Nb	8	ASt	10	•
Tiree	959.2	-18	N	7	orr	43	97	7	450	Nb	10	-	10	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	964.3	-28	SSE	6	orr	43	85	6	800	Nb	10	-	10	2
Malin Head	963.5	+1	NW	8	cr	45	92	6	2500	Nb	6	aSt	10	•
Renfrew	956.5	-30	WSW	5	orr	52	97	6	450	Nb	10	-	10	2
Edinburgh (Inchkeith)	957.1	-25	SSE	4	orr	46	97	8	1500	Nb	10	-	10	•
Leuchars	958.2	-37	SE	6	oRR	44	97	6	800	Nb	10	-	10	2
Eskdalemuir	959.4	-33	SSW	8	oR	51	92	6	800	Nb	10	-	10	2
Tynemouth	965.2	-17	SSW	4	or	50	97	6	1500	Nb	10	-	10	•
Blacksod Point	978.9	+5	WSW	8	c	44	97	7	•	CuNb	9	-	9	•
Donaghadee	959.8	-22	WSW	9	cr	50	85	6	800	Nb	9	-	9	•
Birr Castle	978.7	•	W	8	cr	50	75	7	1500	Cu	8	-	8	•
Holyhead	973.3	-11	W'S	8	c/pr	54	65	6	2500	St	8	-	8	2
Liverpool (Bidston)	970.8	-17	WSW	8	c/pr	56	75	7	1500	Nb	9	ACu	9	•
Chester (Sealand)	972.6	-17	WSW	7	bcr	59	65	8	800	St	6	-	6	2
Harrogate	970.4	-19	SSW	7	cRR	55	85	6	2500	Nb	9	ASt	10	•
Spurn Head	974.1	-21	SW'S	7	c	53	97	7	4000	CuNb	6	ASt	10	•
Birmingham (Edgbaston)	975.3	-17	SW	7	c/r	57	75	8	800	Nb	8	-	8	2
Cranwell	976.9	-22	SW	7	cd	56	85	6	800	StCu	9	-	9	1
Gorleston	983.8	-16	SSW	6	oror	52	97	6	800	Nb	10	-	10	•
Valentia (Cahirciveen)	982.8	+14	W	7	bc	50	75	8	2500	StCu	7	-	7	2
Roches Point	986.6	+1	NW	6	bc/pr	51	85	8	1500	CuNb	4	-	4	•
Pembroke (St. Ann's H.)	960.3	-10	WSW	9	c/pr	56	85	4	800	StCu	10	-	10	•
Ross-on-Wye	981.2	-13	SW'W	8	cdd	56	85	7	2500	Nb	10	-	10	2
Leafield	983.9	-13	SW	7	orr	53	97	6	800	Nb	10	-	10	2
Winchester (Worthy Dn.)	990.2	-12	SW'S	6	orr	55	97	6	450	Nb	10	-	10	2
S. Farnborough	988.5	-12	SW'W	7	orr	55	92	6	450	Nb	10	-	10	2
London (Kew Obsy.)	987.6	-14	SW	6	cr	56	85	6	450	Nb	9	ASt	10	2
Croydon	989.2	-15	W'S	7	odd	56	85	6	450	Nb	10	-	10	2
Shoeburyness	987.7	-17	SW	7	o/pr	57	97	8	800	Nb	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	987.4	-11	SW'S	6	odd	54	92	7	800	Nb	10	-	10	2
Lympne	990.7	-17	SW'W	8	odd	54	97	5	<150	St	10	-	10	2
Scilly (St. Mary's)	992.5	-9	SW'W	9	or	55	97	6	2500	Nb	10	-	10	•
Falmouth (Pendennis)	993.0	-9	WSW	9	orr	56	92	6	2500	Nb	10	-	10	•
Plymouth (Cattewater)	991.2	-13	SW	9	or	55	97	5	450	Nb	10	-	10	2
Portland Bill	988.7	-14	SW	9	or	55	97	5	450	St	10	-	10	•
Southampton (Calshot)	990.9	-13	WSW	8	oDD	55	92	5	800	Nb	10	-	10	2
Dungeness	991.0	-17	SW	8	orr	56	97	6	800	Nb	10	-	10	•
Guernsey (Fort George)	998.3	-10	WSW	8	odd	56	97	5	450	St	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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	966.0	-3	NE	1	cjb	43	75	7	1500	CuNb	5	ASt	10	•
Stornoway	968.2	+4	-	0	orr	41	97	6	1500	Nb	10	-	10	0
Wick	963.6	+1	N	4	oRR	41	97	7	1500	Nb	10	-	10	3
Tiree	971.8	+8	NW	7	c/PR	44	75	7	1500	CuNb	10	-	10	9
Nairn	964.6	•	NE'E	4	cR	39	92	7	800	Nb	9	-	9	•
Aberdeen	956.1	+1	NNW	6	orr	41	92	7	800	Nb	10	-	10	4
Malin Head	976.6	+9	NW	7	bcr	46	75	7	4000	CuNb	3	-	3	8
Renfrew	968.2	+25	WNW	6	c	44	85	8	1500	StCu	8	ASt	9	•
Edinburgh (Inchkeith)	961.6	+4	W	7	c	43	75	8	1500	St	6	ASt	10	5
Leuchars	961.6	+20	W	7	c	41	75	8	1500	St	7	ASt	10	•
Eskdalemuir	966.9	+21	W	8	c	43	75	8	2500	StCu	10	-	10	•
Tynemouth	961.6	-8	W	7	bc/r	48	75	7	1500	Cu	6	-	6	6
Blacksod Point	985.3	+3	WSW	8	c/PH	43	92	6	•	CuNb	9	-	9	9
Donaghadee	977.4	+15	NW	9	cr	44	75	7	800	Nb	9	-	9	7
Birr Castle	987.8	•	W	5	c/pr	44	75	7	1500	Cu	8	-	8	•
Holyhead	983.3	+12	W'N	8	c	47	75	6	2500	Cu	8	-	8	8
Liverpool (Bidston)	980.3	+11	W'S	10	cr	47	75	7	1500	CuNb	8	-	8	•
Chester (Sealand)	979.6	+9	W	8	bc/pr	49	65	8	4000	StCu	6	-	6	•
Harrogate	971.1	+3	SW	9	bc/r	45	75	7	2500	Nb	3	-	3	•
Spurn Head	971.0	+2	W'S	9	bc	48	75	7	4000	CuNb	5	-	5	5
Birmingham (Edgbaston)	983.6	+9	W	7	bc/pr	46	65	8	1500	Cu	6	-	6	•
Cranwell	978.9	+8	W	7	bc/r	47	85	7	1500	Cu	3	-	3	•
Gorleston	978.5	+1	W'S	6	bc/r	53	85	7	4000	Cu	3	-	3	5
Valentia (Cahirciveen)	996.3	+5	W'S	7	bc	49	65	8	2500	StCu	5	-	5	7
Roches Point	995.4	+7	NW	5	bc	47	75	8	1500	CuNb	3	-	3	6
Pembroke (St. Ann's H.)	988.8	+9	WSW	8	bcd	47	85	6	1500	Cu	6	-	6	8
Ross-on-Wye	987.1	+8	W	7	bc	48	65	8	4000	Cu	5	-	5	•
Leafield	985.9	+6	W'S	6	b	47	65	8	4000	Cu	1	-	1	•
Winchester (Worthy Dn.)	990.5	+7	W	7	bc/PR	48	75	8	1500	StCu	4	ASt	5	•
S. Farnborough	988.3	+7	W	5	cr	50	75	8	5700	StCu	6	ACu	8	•
London (Kew Obsy.)	986.8	+7	W	6	b-	52	65	7	800	Cu	1	-	1	•
Croydon	987.6	+5	WNW	7	bc/r	51	75	6	2500	StCu	2	ACu	3	•
Shoeburyness	985.2	0	W'S	8	b	52	92	7	4000	Cu	2	-	2	•
Clacton-on-Sea	982.9	-4	W	7	bc	55	65	7	4000	Cu	6	-	6	5
Felixstowe	992.8	+2	W'S	6	bc	54	65	7	2500	Cu	7	-	7	6
Lympne	986.5	0	W'S	7	or	51	85	8	1500	Nb	10	-	10	•
Scilly (St. Mary's)	1000.9	+4	W'N	9	bc	50	97	6	4000	CuNb	3	-	3	8
Falmouth (Pendennis)	998.0	+7	NW	8	bc/pr	50	75	7	4000	CuNb	4	-	4	4
Plymouth (Cattewater)	996.3	+7	WNW	8	b	50	65	7	2500	CuNb	1	-	1	6
Portland Bill	991.2	+3	W	8	bc+	50	75	6	1500	St	7	-	7	6
Southampton (Calshot)	990.3	+9	W'N	6	c+	51	75	7	1500	Cu	8	-	8	8
Dungeness	985.3	+5	WSW	8	bc/r	54	75	6	450	St	3	-	3	7
Guernsey (Fort George)	998.4	+4	W	8	cr	52	75	6	800	CuNb	7	ASt	8	7

LONDON OBSERVATIONS. Day 7h-18h., Kew & Croydon. 9h-18h., Kensington. 9h-21h., other stations.	Heights above M.S.L. in feet.	Weather (24 hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day. °F.	Min. Night. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Night.†	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cr0qr	cRqb	b b.c	58	46	42	5	Tr.	0.0	•	•	8
Croydon	244	crr0Dd	crrq	bcqb	58	45	41	6	-	0.0	•	•	7
Greenwich (Royal Obsy.)	149	crd0q	cdopq	cbcq	58	45	38	1	-	0.0	78	73	6
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	60	46	40	3		0.0	60	73	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	orodc	crc	•	57	46	.	2	-	•	•	73	•
Kensington Palace	80	odbc	c	•	59	45	40	5	-	•	(At 18h) 73	71	•
Hampstead Observatory	450	•	•	•	56	43	34	2	-	0.0	•	86	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
Defective record		<0.3	5h 24th

Kew Observatory Max.	Time.	Min.	Time.
0.1	8h 23rd	<0.1	3h 24th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 23rd 17h. 00m. to 24th 06h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.30	10.10	75
δ Ursae Minoris	13.30	9.38	71

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 (Hour 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.

24th + 25th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.33 7.34	11.40 11.40	15.46 15.46
Greenwich	7.35 7.36	11.47 11.47	15.58 15.57
Wick	8.24 8.26	11.59 11.59	16.34 15.32
Valentia	8.18 8.19	12.28 12.28	16.37 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.
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:—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.

SEA DISTURBANCE.
0=no swell } Calm or
1=mod. swell } slight
2=heavy swell } sea.
3=no swell } Moderate
4=mod. swell } sea.
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.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

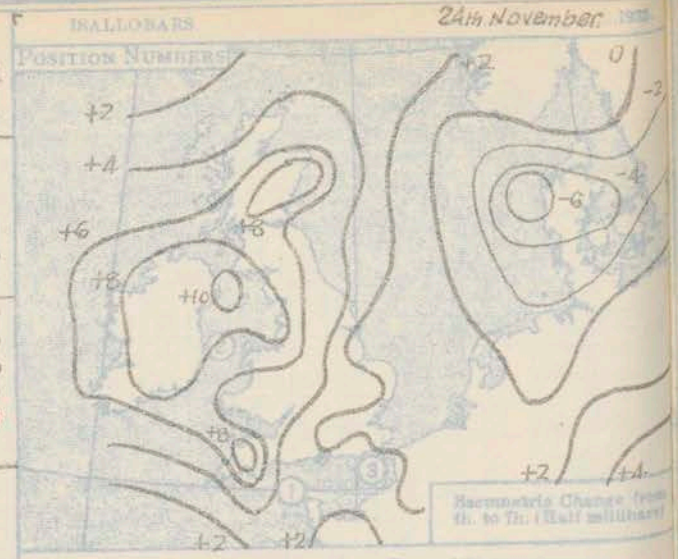
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 23rd	Weather. 18h.-18h. 23rd	Weather. 18h. 23rd to 18h. 24th	Weather. 18h.-7h. 24th	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 23rd. Hours.
Lerwick	cbprbc	cipr	cOrOr	.oirc	47	41	•	5	<8.00	5	<21.00	0.0
Stornoway	r-d	r-d	b-bc	p	43	37	•	10	<8.00	6	<21.00	0.0
Wick	crr	crRr	cir	cirbc	45	39	•	9	17.30	13	<21.00	•
Tiree	rrq	bRoq	bcPR	prbcq	47	42	38	25	<8.00	5	<21.00	0.0
Nairn	RR bo	Rerr	rcbc	bcx	43	38	•	13	9.00	0.6	<21.00	0.0
Aberdeen	corr	orrrq	orrq	orrqbcb	47	40	33	21	9.00	7	<21.00	0.0
Malin Head	cQP	cQir	bcqprcqb	bcqPHR	48	43	•	12	<8.00	5	<21.00	0.0
Renfrew	orcRcr	orrcQ	cqrcpbc	bcqcpr	53	39	34	26	<8.00	2	<21.00	0.0
Edinburgh (Inchkeith)	berr	orrRr	cbcb	bbcb	54	41	38	17	9.00	-	-	0.0
Leuchars	crRR	oRr,cQ	cQbcQcq	bbcq	50	37	33	19	9.00	-	-	0.0
Eskdalemuir	oRRm	oirid.m.c	cprbc	bccprc	51	38	36	26	<8.00	3	<21.00	0.0
Tynemouth	oirq	oirq	bccpr	bc	57	42	38	2	<8.00	0.5	<21.00	•
Blacksod Point ...	pqc	phlq	phlqc	phq	55	42	•	8	•	4	•	•
Donaghadee	cirq	curq	bcpro	bcpro	56	42	•	9	<8.00	3	<21.00	•
Birr Castle	ocir	cprq	cirq	cirq	56	41	38	4	<8.00	5	<21.00	1.9
Holyhead	RRqoR	bcprbcc	prqc	cm	56	45	44	4	<8.00	0.3	<21.00	0.9
Liverpool (Bidston) ...	rbcQ	bqrq	poo p	o pp	57	45	40	2	<8.00	4	<21.00	1.2
Chester (Sealand) ...	orqpQ	bccpr	ccpr	bccpr	59	45	41	2	<8.00	2	<21.00	2.0
Harrogate	cbcQR	cbcQR	cbcqir	cbcQir	55	41	38	6	9.00	4	<21.00	0.2
Spurn Head	orrcqq	cpRtbcc	cqpr	cprq	55	43	•	4	9.00	0.2	<21.00	0.0
Birmingham (Edgbaston)	orrcr	cpr	bcprn	cpr	58	42	39	7	<8.00	1	<21.00	0.1
Cranwell	orrcir	cirq	qrr	rr r.r.	57	40	38	4	<8.00	4	<21.00	0.3
Gorleston	cor.rq	or.corq	bcbq	cqpr.	58	44	41	9	<8.00	0.4	1.30	0.0
Valentia (Cahirciveen)	orcp	bccph	cpq	bccp	57	45	41	4	<8.00	2	<21.00	1.6
Roches Point	orqpbcc	cqprnbc	bcqpb	bqpbc	56	42	•	3	<8.00	3	22.00	•
Pembroke (St. Ann's H.)	cmqpR	cbcmq	bcqP	bcqpr.	56	45	•	10	<8.00	2	<21.00	0.0
Ross-on-Wye	rqdq	dqcbqbcq	bqcqidq	cqiro	57	44	40	7	<8.00	1	<21.00	0.8
Leafield	orRq	cirbcbcqbc	bqpbc	bqpc	54	41	38	10	<8.00	0.2	<21.00	0.0
Winchester (Worthy Dn.)	orrm	orcRq	bcpro	bc	56	43	37	9	<8.00	1	<21.00	0.0
S. Farnborough ...	orrrq	orcirbc	cb	bbc	56	44	40	4	<8.00	-	-	0.0
London (Kew Obsy.) ...	crqr	cRqb	b	b,c	58	46	42	5	<8.00	Tr.	-	0.0
Croydon	coroDd	orrrqm	bccqb	b,c	58	45	41	6	<8.00	-	-	0.0
Shoeburyness	oprq	bcprq	bqbc	bco	59	45	44	3	<8.00	-	-	0.1
Clacton-on-Sea ...	coroc	cqcbcq	bcq	bcq	57	45	40	4	<8.00	-	-	0.0
Felixstowe	orrm	orrbcq	bccm	bbcc	58	45	43	6	<8.00	Tr.	<21.00	0.0
Lympne	or.rddm	ddRRbc	or.cbc	bbcq	54	42½	40	13	<8.00	0.2	<21.00	0.0
Scilly (St. Mary's) ...	omirq	orcPbc	bcP	bc	56	46	•	5	-	1	<21.00	1.0
Falmouth (Pendennis)	orrqm	ormbcPq	bcPq	bcprq	56	45	•	3	<8.00	2	<21.00	0.3
Plymouth (Cattewater)	d.rmq	omrrrbc	bbcprq	bqcpr	57	47	43	4	<8.00	2	24.00	0.1
Portland Bill	oqirm	qirbc	bcqp	bcqpl	57	48	•	5	<8.00	3	<21.00	•
Southampton (Calshot)	rrdlmq	DRRbcq	cPRb	bqbb	56	46	42	9	<8.00	0.2	<21.00	0.0
Dungeness	dqrr	qrrc	crbcbq	bqbc	56	44	•	5	<8.00	0.2	<21.00	•
Guernsey	rrqrd	ddRRqmc	ccqqc	bcrrma	57	46	•	5	<8.00	2	<21.00	0.0

Sun 23rd. Hours.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	23rd 10h	Scotia	S'W	6	PR	55	54	6
3	24th 3h	Dieppe	WNW	7	bc/r	57	55	7

General Inference.

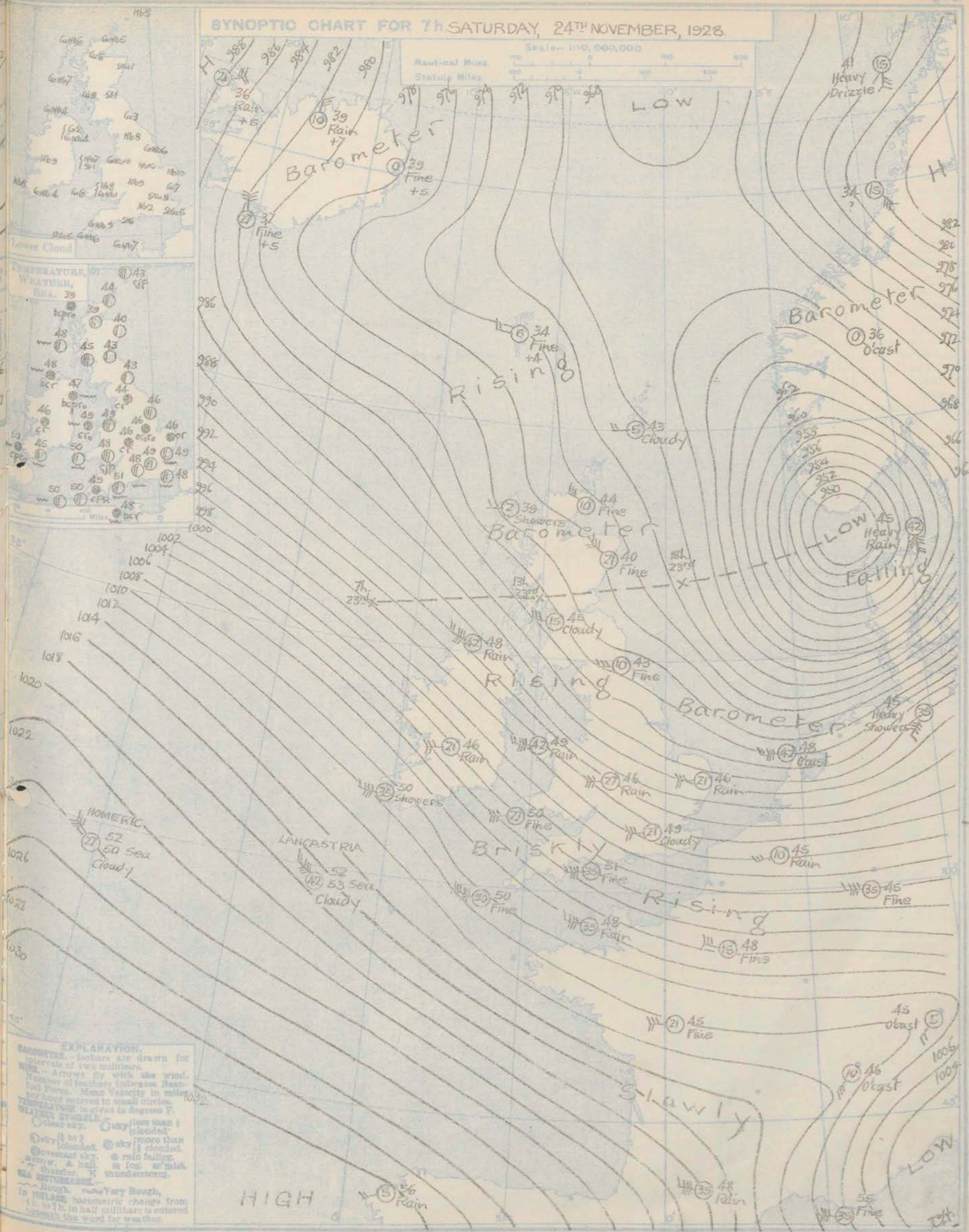
An intense depression centred near Northwest Denmark is moving eastwards, another deep but dying depression lies between Iceland and Norway. Strong squally winds will occur in all districts, reaching gale force at times in England and Wales and weather showery and cool. A new depression over the Atlantic will renew unsettled weather in the next 24 hours.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 24th November, 1928.	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 ✝	Strong squally west to northwest winds, reaching gale force at times; showers, bright periods; moderate temperature.	Unsettled. ✝ South Cone still flying.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland	Fresh west to northwest winds, moderating, backing later; showers of rain or hail, bright periods; moderate temperature, ground frost at night.	
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland ✝	Light to moderate west to northwest wind, backing later; local showers, bright periods; moderate day temperature, ground frost at night.	
18. N.E. Ireland ✝ 19. S.E. Ireland ✝ 20. S.W. Ireland ✝	Strong squally west to northwest wind, backing later; showers, bright periods; moderate day temperature, ground frost at night.	

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

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

‡ For code see page 1


SYNOPTIC CHART FOR 7h SATURDAY, 24TH NOVEMBER, 1928.
Scale – 1:10,000,000
Nautical Miles
Statute Miles
Lower Cloud
TEMPERATURE, WEATHER, SEA.
LOW
Barometer
Rising
Falling
Briskly
Slowly
HIGH
HOMERIC
LANCASTRIA
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 ¾ clouded. Sky more than ¾ clouded. Overcast sky. rain falling. snow. hail. fog. mist. thunder. K thunderstorm.
SEA DISTURBANCE.
Rough. Very Rough.
In ICELAND barometric change from ½ to ½ h. in half millibars is entered beneath the word for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Saturday 24th November.....1928. No. 329...

Stations	Height above M.S.L. in Feet	Obs. 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 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Obs. 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 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun 0-9
Lerwick	64	964.8	+2	NW	2	c r o/o	42	92	7	1500	CuNb	7	aSt	9	970.7	+3	W	2	c j p	43	92	7	1500	Nb	5	aSt	8	•
Stornoway	30	974.2	+6	NW	1	bc-	•	•	8	•	•	•	•	4	977.5	+3	W	1	bc/pr	39	92	6	4000	CuNb	6	-	6	1
Wick	81	969.2	+5	N	4	or	42	92	[illegible]	[illegible]	Nb	10	-	10	975.0	+5	NW	3	bc	44	85	8	1500	CuNb	5	-	5	3
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	982.5	+5	NW	7	bc	48	75	7	1500	CuNb	7	-	7	7
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	977.8	•	W	2	bc-	39	85	8	2500	Cu	5	-	5	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	976.2	+9	WNW	5	b	40	75	8	4000	StCu	1	aSt	1	•
Malin Head	81	979.9	+5	NW	7	bc/PR	47	97	7	4000	CuNb	7	-	7	988.3	+8	NWW	8	bcr	48	92	7	4000	CuNb	4	-	4	8
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	981.9	+6	WNW	4	c	45	85	8	1500	Cu	9	-	9	•
Edinburgh (Inchkeith)	190	972.3	+8	W	6	b	43	75	8	-	-	0	aCu	2	977.4	+6	W	5	b	43	85	8	1500	St	1	aCu	2	2
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	978.0	+6	W	6	b	39	85	8	4000	StCu	2	-	2	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	981.0	+4	WNW	7	c	43	85	8	2500	StCu	8	-	8	•
Tynemouth	67	974.8	+4	W	4	b/r	43	85	8	1500	Cu	3	-	3	979.4	+5	W	3	bc	43	85	6	1500	Cu	3	Ci	4	2
Blacksod Point ...	18	992.3	+4	WNW	9	c	47	92	6	•	CuNb	8	-	8	1000.8	+7	WNW	8	c	49	65	7	•	CuNb	9	-	9	8
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	988.7	+10	NW'W	8	bc/pr	47	75	8	1500	CuNb	6	-	6	7
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.2	•	W	5	cr	46	85	6	1500	Nb	9	-	9	•
Holyhead	36	986.1	0	W	8	c/pr o	47	85	6	1500	St	9	-	9	992.0	+7	WNW	8	cr o	49	85	6	1500	Nb	8	-	8	8
Liverpool (Bidston) ...	186	•	•	•	•	•	•	•	•	•	•	•	•	•	987.7	+8	W'N	9	c	49	75	7	800	CuNb	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	988.5	+6	W'N	8	bc/pr o	49	75	7	2500	StCu	7	-	7	•
Harrogate	475	•	•	•	•	•	•	•	•	•	•	•	•	•	983.3	+5	SW'W	7	cr	44	85	8	4000	Nb	8	aCu	9	•
Spurn Head	29	978.3	+2	WSW	6	c/pr o	44	85	6	4000	CuNb	8	-	8	981.6	+2	W'N	7	c	46	85	6	4000	CuNb	6	aSt	9	•
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•	991.2	+6	W	6	cr o	46	75	8	1500	Nb	9	-	9	•
Cranwell	236	983.1	+1	W'S	7	orr	44	85	6	800	Nb	10	-	10	985.8	+2	W	6	ord o	46	85	6	800	Nb	10	-	10	•
Gorleston	14	983.6	0	W'S	6	c/pr o	45	92	7	1500	Nb	10	-	10	985.9	+2	W	5	ar	46	92	7	2500	Nb	10	-	10	4
Valentia (Cahirciveen) ‡	30	1002.8	+5	SW'W	7	bc/PR	45	97	6	•	CuNb	5	-	5	1006.5	+6	WNW	7	cr o	50	65	7	2500	Nb	8	-	8	7
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1006.5	+9	NW	7	bc	45	85	8	1500	CuNb	4	-	4	6
Pembroke (St. Ann's H.)	150	993.1	+2	W'S	8	bc	49	75	6	2500	Cu	6	-	6	993.8	+5	W	6	bc	49	75	6	1500	Cu	6	-	6	8
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	994.7	+5	W'N	8	c j p	48	75	8	2500	Nb	9	-	9	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	992.9	+3	W	7	c +	46	75	8	4000	StCu	9	-	9	•
Winchester (Worthy Dn.)	273	•	•	•	•	•	•	•	•	•	•	•	•	•	996.5	+2	W	6	bc	48	75	8	2500	StCu	4	Ci	5	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	994.0	+2	W	6	bc +	48	75	7	1500	Nb	2	CiSt	5	•
London (Kew Obsy.) ...	18	•	•	•	•	•	46	•	•	•	•	•	•	•	992.8	+1	W	5	c +	49	65	8	1500	StCu	9	-	9	•
Croydon	244	992.0	+1	W	6	b-	46	65	8	1500	St	1	-	1	993.4	+2	WNW	6	c	49	65	7	1500	StCu	8	CiSt	9	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	990.8	+3	W'S	6	c	49	92	7	4000	StCu	10	-	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	989.2	0	W	6	bc	49	65	7	4000	Cu	7	-	7	4
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	989.2	+2	W'S	6	c	49	65	8	1500	St	8	aSt	9	7
Lympne	350	992.5	+3	W	6	b-	42	85	7	-	-	0	-	0	993.1	+2	W'N	6	bc	46	75	7	1500	StCu	4	Ci	6	•
Scilly (St. Mary's) ...	163	1002.9	+2	W'N	8	bc	49	75	7	4000	CuNb	5	-	5	1008.0	+2	WNW	9	bc	50	75	6	4000	StCu	5	-	5	8
Falmouth (Pendennis)	200	1000.9	+2	NW	6	bc/PR	48	65	8	4000	CuNb	4	-	4	1005.9	+4	NW	6	bc +	50	65	8	4000	CuNb	6	-	6	2
Plymouth (Cattewater)	88	•	•	•	•	•	•	•	•	•	•	•	•	•	1005.0	+9	WNW	6	c/PR	49	75	7	1500	CuNb	9	-	9	4
Portland Bill	32	996.4	0	W	8	bc/PR	50	75	8	1500	St	5	-	5	998.3	+3	W	7	bc/r	51	75	8	1500	St	6	Ci	7	8
Southampton (Calshot)	10	995.0	+1	W	6	b	48	65	7	-	-	0	-	0	997.3	+3	W'N	6	c	48	75	7	2500	St	8	-	8	6
Dungeness	30	990.7	+2	W	8	b-	49	65	8	-	-	0	aCu	1	992.2	+3	WSW	7	bc +	48	75	7	2500	StCu	5	CiSt	6	6
Guernsey (Fort George) ¶	298	1002.0	+2	WSW	6	c	50	75	6	1500	St	10	-	10	1005.5	+3	WNW	7	bc -	48	85	6	1500	CuNb	7	-	7	7

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 23rd November.....

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. 9h. 22nd to 9h. 23rd	Temperature Max. 9h.-17h. 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)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	oRR	RRo	43	54	-	9	0.0
Douglas (I. o. M.) ...	orh	c	45	55	12	3	0.2
Llandudno ...	reqco	reqcp	46	58	5	2	0.8
Colwyn Bay ...	orcr	c roar	47	60	8	5	0.2
Rhyl							
Wallasey	oR bc	bciR	45	58	5	2	1.0
Southport	Rrocq	opqoq	*45	56	4	6	0.7
Blackpool	orc	orcp	45	56	5	7	0.5
Ilkley	cr	orc	43	56	1	5	0.0
Cleethorpes	ro	otRro	43	57	1	5	0.0
Skegness	bcrop	oprbc	43	57	3	2	0.0
Aberystwyth ...	cRc	c	44	56	13	↑-	0.0
Bath	cirq	cirq	49	58	4	9	0.0
Cheltenham ...	ocrq	orqc	46	57	4	7	0.0
Leamington Spa ...	or	or	45	57	6	5	0.0
Lowestoft	orcr	orcr	46	57	0.6	10	0.0
Harwich & Dovercourt	roc	rbc	45	58	2	6	0.0
Maldon	rr	c	46	58	3	1	0.0
Southend	or	ccr	48	57	2	1	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	oqdp	oqrc	51	56	4	2	0.3
Penzance	odr	or	51	57	9	3	0.4
Paignton	ordpq	odpqc	51	57	6	9	0.0
Torquay	orqm	oiqcq	51	57	3	3	0.0
Jersey	rco	rco	52	59	3	1	0.0
Weymouth	cor	cqbc	52	56	4	2	0.0
Bournemouth ...	oorr	roro	50	56	7	4	0.0
Ventnor ...	orm	ormbc	51	55	6	3	0.1
Portsmouth (S'thsea)	oro	orbc	51	57	4	7	0.0
Bognor	oidr	rroc	51	56	3	5	0.0
Littlehampton ...	cr	crbc	51	56	3	5	0.0
Worthing	ocr	oqRc	50	56	3	8	0.0
Brighton	ror	ocro	52	56	5	3	0.0
Eastbourne‖	rrcro	orrob	52	57	5	3	0.0
Hastings‖	odor	ororc	49	57	5	5	0.0
Folkestone	orrm	orRm	50	56	5	8	0.0
Dover	orr	roc	51	57	7	10	0.0
Tunbridge Wells ...	or	or	49	56	5	7	0.0
Ramsgate	ro	orbc	49	57	3	2	0.0
Margate	cr	crbc	49	58	1	2	0.0
Deal	dor	rod	54	57	2	4	0.0

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* Information not usually received. ¶ The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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. ‡ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24475 — Sunday 25th November 1928.

Observations at 15h. 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	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground
Lerwick	976.9	+4	NW	3	c|p	44	85	8	1500	CuNb	5	CiSt	8	•
Stornoway	985.6	+8	NW	3	bc|pr	46	65	7	4000	CuNb	4	-	4	•
Wick	981.4	+5	NW	3	c	45	85	8	1500	CuNb	6	CiSt	8	•
Tiree	991.2	+9	NW	7	bc	49	75	8	1500	CuNb	3	-	3	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	982.0	+1	WNW	5	b	47	65	8	2500	CuNb	1	ACu	1	1
Malin Head	996.4	+8	WNW	8	bcr	49	85	7	4000	CuNb	6	-	6	•
Renfrew	989.9	+8	WNW	6	bcjp	48	75	8	1500	CuNb	7	-	7	2
Edinburgh (Inchkeith)	984.4	+6	W	5	bc	47	75	8	4000	Cu	2	ACu	3	•
Leuchars	984.5	+6	WNW	4	bcv	48	65	9	4000	StCu	3	-	3	2
Eskdalemuir	987.5	+5	WNW	7	cr	44	85	8	2500	Cu	9	-	8	2
Tynemouth	985.2	+3	W	5	bcjp	47	75	7	1500	Cu	6	-	6	•
Blacksod Point	1005.8	+5	WSW	7	bc	49	75	7	*	CuNb	7	-	7	•
Donaghadee	996.4	+8	WNW	9	bc|pr	48	75	8	1500	CuNb	5	-	5	•
Birr Castle	1005.8	•	W	4	cr	48	75	7	1500	Nb	9	-	9	•
Holyhead	999.9	+6	WNW	8	c	50	75	6	2500	Cu	8	-	8	1
Liverpool (Bidston)	994.9	+5	WNW	8	c|pr	49	75	7	800	CuNb	9	-	9	•
Chester (Sealand)	996.3	+7	WNW	8	c|pr	50	65	6	800	St	9	-	9	2
Harrogate	990.6	+4	W	7	CRR	42	92	8	2500	Nb	9	-	9	•
Spurn Head	987.9	+5	W'N	8	c	48	75	7	4000	CuNb	6	ACu	8	•
Birmingham (Edgbaston)	995.2	+6	WNW	6	bc|pr	46	75	8	1500	CuNb	6	-	6	2
Cranwell	993.0	+5	WNW	7	c	48	75	7	1500	Cu	8	-	8	2
Gorleston	990.2	+3	W'N	6	bc	49	85	7	4000	Cu	7	-	7	•
Valentia (Cahirciveen)	1013.7	+2	W'N	6	c	50	75	7	2500	Nb	9	-	9	2
Roches Point	1010.6	+4	NW	6	bc	49	75	8	1500	CuNb	6	-	6	•
Pembroke (St. Ann's H.)	1004.6	+5	W'N	6	bc	50	85	7	1500	Cu	5	Ci	7	•
Ross-on-Wye	1001.9	+5	WNW	7	c|pr	49	65	7	4000	Cu	8	-	8	2
Leafield	998.5	+6	WNW	7	c|p	48	65	8	2500	CuNb	8	-	8	2
Winchester (Worthy Down)	1002.2	+6	W	6	c	49	65	7	2500	StCu	8	-	8	2
S. Farnborough	999.8	+4	W'N	5	c	51	65	8	2500	StCu	8	-	8	2
London (Kew Obsy.)	999.2	+5	WNW	5	c	51	66	8	1500	StCu	9	-	9	1
Croydon	999.6	+6	WNW	6	c|r	50	65	7	1500	St	9	-	9	2
Shoeburyness	996.5	-6	WNW	6	bc|r	52	85	8	1500	StCu	7	-	7	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	993.7	+5	W	7	bc	51	65	8	2500	Cu	4	-	4	1
Lympne	997.5	+6	WNW	6	bc-	49	65	8	2500	StCu	4	Ci	7	1
Scilly (St. Mary's)	1013.2	+1	WNW	8	bc	52	85	6	4000	CuNb	6	-	5	•
Falmouth (Pendennis)	1010.3	+2	NW	7	bc|pr	51	75	7	4000	StCu	7	-	7	•
Plymouth (Cattewater)	1010.1	+3	WNW	6	c|pr	51	75	7	2500	CuNb	9	-	8	2
Portland Bill	1005.8	+4	W	7	c	51	75	8	1500	St	8	-	8	•
Southampton (Calshot)	1001.8	+4	NW'W	8	bc	52	55	7	2500	Cu	4	-	5	1
Dungeness	997.6	+4	W	7	bc-	53	65	8	1500	Cu	4	CiCu	6	1
Guernsey (Fort George)	1009.5	+4	WNW	7	bc-	52	65	8	2500	CuNb	5	-	5	•

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	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	978.9	+2	NNW	2	bc	43	85	8	1500	Cu	4	ACu	7	•
Stornoway	987.6	+3	NW	6	bc|PR	44	75	7	4000	CuNb	6	-	6	5
Wick	983.5	+4	NNW	3	c|PR	44	85	8	1500	Nb	5	ASt	8	3
Tiree	993.5	+2	NW	7	bc|p	48	75	8	1500	CuNb	6	-	6	6
Nairn	987.7	•	WNW	3	bc|r	43	85	8	2500	Cu	4	-	4	•
Aberdeen	986.7	+5	W	4	b	44	75	8	2500	CuNb	1	-	1	1
Malin Head	998.1	+1	WNW	7	c|pr	47	85	7	4000	CuNb	9	-	9	8
Renfrew	994.5	+6	WNW	5	bc-	45	75	8	-	-	0	ACu	5	•
Edinburgh (Inchkeith)	989.4	+6	W	6	bc	46	75	8	-	-	0	ACu	4	4
Leuchars	989.6	+4	W	4	bc+	44	75	8	4000	StCu	1	ACu	4	•
Eskdalemuir	993.0	+5	WNW	7	bc|pr	42	75	8	2500	Cu	5	ACu	7	•
Tynemouth	991.9	+6	W	4	bc	45	75	6	1500	Cu	2	Ci	3	2
Blacksod Point	1003.7	-1	WNW	6	prll	47	92	7	*	Nb	10	-	10	7
Donaghadee	999.7	+4	NW	5	bc+	46	85	8	2500	Cu	4	ASt	6	5
Birr Castle	1006.2	•	W	3	orr	46	92	6	800	Nb	10	-	10	•
Holyhead	1003.3	+4	NW'W	7	c+	50	85	7	1500	St	10	-	10	7
Liverpool (Bidston)	1000.1	+7	W'N	8	c	48	65	7	1500	CuNb	8	-	8	•
Chester (Sealand)	1000.5	+6	WNW	7	c	49	65	8	2500	StCu	3	ACu	9	•
Harrogate	995.1	+8	WSW	5	b	43	85	7	-	-	0	CiSt	2	•
Spurn Head	993.4	+4	WNW	7	bc-	47	85	7	5700	StCu	3	-	3	6
Birmingham (Edgbaston)	1002.2	+5	W	4	c	46	65	8	2500	StCu	8	-	8	•
Cranwell	997.4	+8	WNW	6	bc	47	75	8	2500	Cu	4	-	4	•
Gorleston	994.8	+5	WNW	6	c	47	85	6	2500	Nb	10	-	10	4
Valentia (Cahirciveen)	1011.0	-3	WSW	5	c|pr	50	85	7	1500	Nb	8	ASt	10	6
Roches Point	1010.6	-1	NW	3	c	49	85	8	1500	StCu	9	-	9	4
Pembroke (St. Ann's H.)	1007.0	+4	WNW	5	c+	51	85	7	1500	StCu	6	ASt	9	6
Ross-on-Wye	1004.4	+3	WNW	6	c∞	48	65	8	4000	Cu	1	CiSt	9	•
Leafield	1002.8	+4	W'N	6	bc∞	44	75	8	5700	StCu	3	-	3	•
Winchester (Worthy Down)	1005.3	+3	W'S	5	c∞	47	65	8	5700	StCu	4	CiSt	9	•
S. Farnborough	1003.9	+5	W'N	4	b-	48	65	8	-	-	0	ACu	2	•
London (Kew Obsy.)	1003.1	+6	W	5	b	48	65	8	-	-	0	ASt	2	•
Croydon	1003.7	+6	WNW	5	b-	48	65	6	5700	StCu	1	CiCu	2	•
Shoeburyness	1000.5	+5	W	6	bc	48	87	8	4000	Cu	4	-	4	•
Clacton-on-Sea	998.9	+4	WNW	6	bc	49	65	7	5700	StCu	7	-	7	4
Felixstowe	998.2	+4	W'N	7	bc	49	65	8	2500	StCu	6	-	6	6
Lympne	1001.6	+4	WNW	6	b	46	65	8	-	-	0	ACu	2	•
Scilly (St. Mary's)	1013.7	+1	W'N	7	c	51	85	7	4000	StCu	10	-	10	8
Falmouth (Pendennis)	1012.2	+2	NW	5	c|pr	50	75	7	4000	CuNb	6	ASt	10	2
Plymouth (Cattewater)	1011.3	+1	WNW	5	c∞	50	85	7	2500	Nb	2	ASt	10	2
Portland Bill	1006.8	+3	WNW	7	c|pr	52	75	8	1500	St	9	ASt	10	8
Southampton (Calshot)	1005.9	+5	NW'W	5	bc∞	49	65	7	-	-	0	CiSt	7	6
Dungeness	1001.3	+4	NW	5	b-	48	65	8	1500	Cu	2	-	2	5
Guernsey (Fort George)	1011.7	+2	W	7	bcr	51	75	7	2500	CuNb	7	-	7	7

London Observations

Day 7h–18h, Kew & Croydon. 9h–19h, Kensington. 8h–21h, other stations.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 hours ended 9h)	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 8h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cq	bcqpc	bcr	52	46	44	Tr.	4	1.3	*	*	•
Croydon	244	cr	cr,bc	crrm	51	45	43	Tr.	3	0.8	*	*	7
Greenwich (Royal Obsy.)	129	cbq	bcq,b	bcmq	51	45	38	-	5	0.4	*	*	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.5	*	*	•
Westminster (St. James' Pk.)	27	*	*	*	57	46	•		5	0.9	66	91	•
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	1.2	*	*	•
Camden Square	110	c	c	*	49	46	•	-	6	*	*	90	•
Kensington Palace	80	oc	o	*	52	46	40	-	5	*	(At 18h) 63	87	•
Hampstead Observatory	450	*	*	*						1.8	*		•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 25th.

Station	Max.	Time	Min.	Time
South Kensington	0.4	19h 24th	<0.3	8h 25th
Kew Observatory	0.1	19h 24th	<0.1	6h 25th

Pole Star Record at Greenwich Obsy.

Exposure from 24th 17 h. 00 m. to 25th 06 h. 30 m.

Stars	Exposure h. m.	Record h. m.	%
Polaris	13.30	3.19	25
δ Ursae Minoris	13.30	3.01	22

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.
25th & 24th November 1928.

Stations	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth	7.34 / 7.36	11.40 / 11.40	15.45 / 15.44
Greenwich	7.36 / 7.33	11.47 / 11.47	15.57 / 15.56
Wick	8.26 / 8.28	11.59 / 12.0	15.32 / 15.31
Valentia	8.19 / 8.21	12.28 / 12.28	16.34 / 16.35

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

§ Telegraphic Code for Surface Visibility.

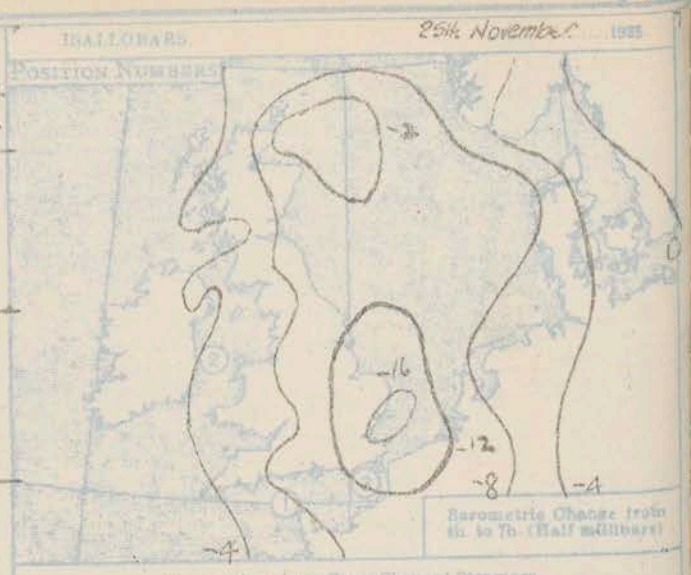
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

† 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.

25th November 1928

Summaries for the Past 24 Hours

Stations.	Weather. 7h.-18h. 24 hr.	Weather. 18h.-18h. 24 hr.	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 24 hr. Hours.
Lerwick	cpr.	cpr bc	bc	bc	46	38	•	1	<8.00	-	-	0.0
Stornoway	p	p	p	p	46	41	•	5	<8.00	6	<21.00	3.0
Wick	cprrc	cphpr	cprc	cRrc	46	39	•	5	3.00	11	<21.00	•
Tiree	pR bc	prbcq	orr	prbc	49	41	36	3	<8.00	12	<21.00	1.6
Nairn	bc	bcpR	bc	rrc	46	40	•	1	14.30	2	4.30	3.3
Aberdeen	b	bpb	bbc	cir	47	40	36	Tr.	14.30	1	4.30	6.2
Malin Head	bcQr.	bcqcpr	crrrm.	cidbcprr	50	43	•	0.5	<8.00	12	<21.00	0.8
Renfrew	crrcP	cpbcp.	bcorr	orrcp	48	43	40	5	<8.00	7	22.00	1.5
Edinburgh (Inchkeith)	bbc	b-bc	bcc	cwrbcb	49	43	41	-	-	0.3	2.30	4.1
Leuchars	bqbc	bcvbv	bc	bbcq	48	41	37	-	-	-	-	5.4
Eskdalemuir	cqpr	bcpr.	bccpr	orcpr	45	40	39	4	<8.00	8	22.00	1.5
Tynemouth	bcp.q	bcq	bccq	ccibq	49	44	40	0.1	9.00	2	2.30	•
Blacksod Point	pcq	pcr.	dd	p	49	45	•	2	•	4	•	•
Donaghadee	bcqpr	prbc	cqir	cqir	49	43	•	2	<8.00	5	<21.00	•
Birr Castle	cir.q	cir.o	or.r.	cq	48	45	44	1	<8.00	2	<21.00	1.3
Holyhead	prc	cmbcq	prrcq	Rcq	51	47	45	0.1	<8.00	6	<21.00	1.1
Liverpool (Bidston)	prhp	c	qcor	orRq	49	44	43	1	9.00	7	<21.00	0.0
Chester (Sealand)	bccprq	cprcq	bccorr	ORcm.	50	46	42	0.3	<8.00	8	22.00	1.0
Harrogate	qcbcirRR	qcoRrirc	bbccq	coqir	46	43	40	6	<8.00	32	3.30	2.9
Spurn Head	bccq	cqbc	bccor	orro	49	44	•	-	-	3	22.00	3.4
Birmingham (Edgbaston)	cbcpr	cpr	cprbc	bcoR	48	44	41	2	<8.00	8	<21.00	2.3
Cranwell	cpc(q)	cqp.bc	c	crc	49	43	42	1	<8.00	0.5	24.00	~~0.0~~
Gorleston	orbcq	bccprq	cbccq	orrq	51	44	41	5	<8.00	2	2.30	2.7 2.6
Valentia (Cahirciveen)	cpc	cp.cp	cror.	ocor.	51	50	47	1	<8.00	7	<21.00	0.0
Roches Point	bcqpbc	bcqp.c	cp.	cir.	58	49	•	2	9.00	21	3.30	•
Pembroke (St. Ann's H.)	bcq	bccq	cPRrq	cprpq	52	49	•	-	-	1	<21.00	0.0
Ross-on-Wye	cpqbccq	cq	cpc	cd.	50	47	42	0.1	<8.00	Tr.	<21.00	3.0
Leafield	cpbccp	bcp.c	bc	bccP	48	43	40	0.1	<8.00	2	3.30	3.3
Winchester (Worthy Dn.)	bcbqcpr	cbcc	bccpr.	cr	51	46	40	Tr.	11.00	1	24.00	3.6
S. Farnborough	bcp.c	cb	bor.	oir.	51	45	40	Tr.	9.00	0.3	22.00	3.2
London (Kew Obsy.)	c'q	bcqpr	bccr.	crrc	52	46	44	Tr.	14.30	4	24.00	1.3
Croydon	cir.	cirbc	crrm.	crrm.	51	45	43	Tr.	9.00	3	22.00	0.8
Shoeburyness	bccpr.	cr.bc	bcb	rrc	53	45	44	Tr.	12.30	4	24.00	4.4
Clacton-on-Sea	bcq	bcq	bc	bccorc	51	45	40	-	-	5	4.30	4.7
Felixstowe	bc	bcpr'q	bcor.	or.r.	51	45	43	Tr.	14.30	3	24.00	5.1
Lympne	cbc	bcprcbq	borr	orrm.	50	44	41	Tr.	14.30	7	1.30	2.5
Scilly (St. Mary's)	bcop	bccP	cir	odd	52	50	•	0.4	<8.00	3	<21.00	2.1
Falmouth (Pendennis)	bcpq	bccprq	cdqm.	cd.rq	52	48	•	0.6	11.00	4	<21.00	2.2
Plymouth (Cattewater)	cqpr	cqpr	cqr.b	cqrrm.	52	49	45	1	<8.00	3	<21.00	0.3
Portland Bill	bcqpc	cqp	c	cqr.	53	48	•	Tr.	<8.00	Tr.	6.30	•
Southampton (Calshot)	cipcbcQ	bcQ	bcqcp.	coirq	52	47	45	-	-	0.2	24.00	5.7
Dungeness	bcq	bcbq	b bcc	orr	52	46	•	-	-	7	24.00	•
Guernsey	bcrq	bcirq	cpqo	bcirm.	52	49	•	1	<8.00	4	<21.00	3.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	24th 10h	Scotia	WN	7	C	49	54	7
1	" 13h	St. Helier	NW	9	/PH	57	56	6

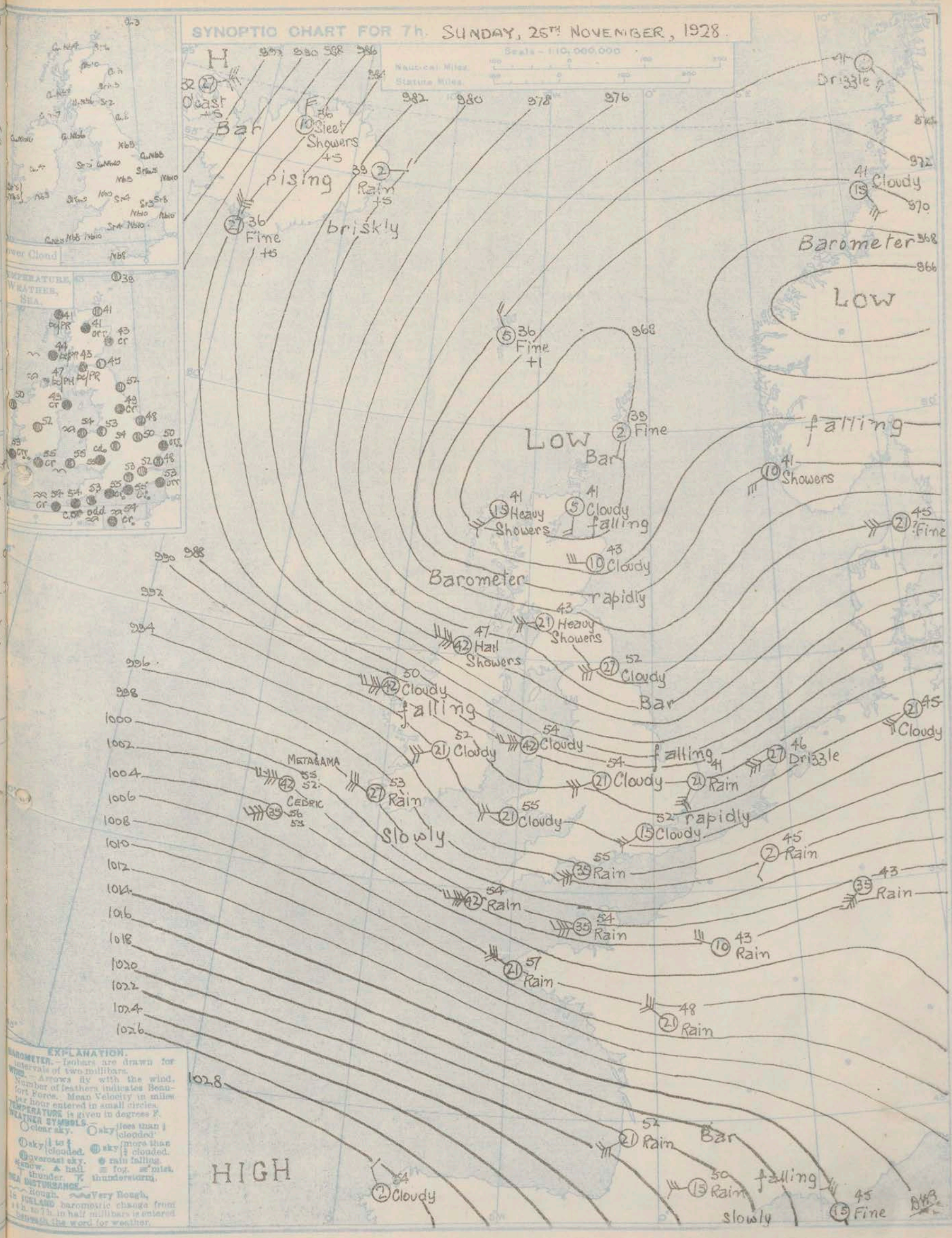
General Difference.

A deep depression centred over Northern Scotland is moving northeast, and an associated trough of low pressure over Ireland and England is moving east. Winds will be mainly westerly, strong to a gale in all districts, except Northern Scotland, where they will be lighter and variable in direction. Weather will be mainly cloudy with intermittent rain, but brief fair periods may occur in the North. Conditions continue favourable for the approach of further depressions from the Atlantic.

Sunday, 25th November, 1928.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Winds between southwest and west, strong and squally, reaching gale force at times; mainly cloudy, intermittent rain; mild.	Unsettled, stormy.
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)	Strong squally westerly winds, reaching gale force at times; cloudy, some rain or showers; brief fairer periods; mild or moderate temperature.	South Cone still flying.
14. Mid Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Light or moderate variable winds, becoming westerly and freshening; cloudy, rain at times; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland	As 7 - 14.	BCR
19. S.E. Ireland 20. S.W. Ireland	As 1 - 6.	

† Trace = rain has fallen, but amount less than ·1 mm.


SYNOPTIC CHART FOR 7h. SUNDAY, 25TH NOVEMBER, 1928.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
H
Bar
rising
briskly
Fine
Sleet Showers
Rain
Drizzle
Cloudy
Barometer
Low
falling
Showers
Heavy Showers
Hail Showers
rapidly
Bar
Slowly
METAGAMA
CEDRIC
HIGH
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 ¾ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. Very Rough.
In ICELAND barometric change from 4 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.....Sunday 25th November.....1928. No. 330.

Observations at 1h. G.M.T. 25th

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	976.1	-3	W	2	bc	42	85	8	1500	Cu	3	Cst	85
Stornoway	30	980.5	-11	S	2	cr.r.	*	*	6	*	*	*	*	10
Wick	81	980.4	-4	WSW	3	c	41	92	8	1500	St	5	Pst	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	984.7	-16	WSW	5	cd	50	97	6	4000	Nb	8	Pst	10
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	986.2	-5	WSW	5	c	44	85	8	4000	Cu	4	Pst	9
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	990.4	-3	WSW	4	0	45	85	7	1500	Nb	10	-	10
Blacksod Point	18	992.2	-3	W	6	odd	53	97	7	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	995.2	-12	SW	4	Or.	49	92	6	800	Nb	10	-	10
Liverpool (Bidston)	182	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	994.8	0	WSW	5	orr	45	92	6	4000	Nb	10	-	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	298	997.7	-1	WSW	4	cr.	45	92	7	2500	Stu	7	Pst	10
Gorleston	14	998.0	0	W	5	c+	45	86	7	-	-	0	Cu.St	10
Valentia (Cahirciveen) P	30	1001.5	-7	SW	7	odd	54	97	6	-	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1000.8	-7	WSW	5	o/pr.	52	97	6	450	St	10	-	10
Ross-on-Wye	293	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	273	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	47	*	*	*	*	*	*	*
Croydon	244	1003.3	-2	W.S	4	Cr.r.	46	85	6	2500	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1003.1	+2	W	4	Orr	45	85	7	2500	St	10	-	10
Scilly (St. Mary's)	163	1009.4	-4	WSW	7	OO	50	97	4	2500	St	10	-	10
Falmouth (Pendennis)	200	1007.6	-3	W	5	cd	50	92	6	2500	Nb	6	Pst	9
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1003.0	-5	WSW	7	C	52	75	8	2500	Cu	4	Pst	10
Southampton (Calshot)	10	1004.1	-3	W	5	c/pr.	48	85	7	1500	St	6	Pst	10
Dungeness	20	1003.4	-2	WSW	5	o/p	49	75	8	2500	Nb	10	-	10
Guernsey (Fort George) P	295	1008.6	-3	W	5	c+	51	85	7	1500	Stu	10	-	10

Observations at 7h. 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	Sun. 0-9
Lerwick	968.0	-8	SSW	1	bc	39	92	8	1500	Cu	3	Pst	5	*
Stornoway	967.4	-2	SW	4	bc/pr	41	92	7	4000	Cu.Nb	4	-	4	3
Wick	967.0	-14	S	2	c/r	41	97	8	1500	St	6	Pst	10	3
Tiree	974.0	-5	NW	7	bc/pr	44	76	8	2500	Cu.Nb	3	-	3	7
Nairn	968.4	*	WNW	3	orr	41	92	7	800	Nb	10	-	10	*
Aberdeen	965.0	-11	W	3	c/r	43	75	8	2500	Stu	8	-	8	0
Malin Head	979.3	-3	WNW	8	bc/pr	47	86	7	4000	Cu.Nb	7	Pst	7	8
Renfrew	976.9	-4	W	5	bc/pr	43	92	8	1500	Cu.Nb	6	-	6	*
Edinburgh (Inchkeith)	971.6	-13	WSW	8	b	45	85	8	2500	St	2	-	2	4
Leuchars	970.8	-6	W	6	bc-	46	76	8	4000	Stu	3	-	3	*
Eskdalemuir	975.5	-8	W'S	6	cr.	45	75	7	1500	Nb	8	-	8	*
Tynemouth	974.5	-8	W	6	c/r	52	75	8	1500	Cu	8	-	8	4
Blacksod Point	990.4	-2	W	8	c	50	75	7	*	Cu.Nb	10	-	10	9
Donaghadee	982.0	-3	WNW	7	cr	49	75	7	2500	Cu.Nb	8	-	8	5
Birr Castle	990.2	*	W	5	c-	52	85	7	1500	Cu	4	Pst	9	*
Holyhead	985.9	-7	W	8	c	54	85	6	1500	St	5	Pst	10	7
Liverpool (Bidston)	982.3	-9	W	7	c	53	75	8	1500	Cu.Nb	10	-	10	*
Chester (Sealand)	984.0	-8	W	7	c	55	75	6	800	St	10	-	10	*
Harrogate	978.3	-5	SWW	7	cr	49	75	8	4000	Nb	9	Pst	10	*
Spurn Head	979.1	-13	SWW	6	c-	48	92	7	4000	Cu.Nb	9	-	9	4
Birmingham (Edgbaston)	986.9	-9	WSW	5	c	54	85	8	1500	Nb	9	Pst	10	*
Cranwell	982.7	-14	SWW	6	c	50	92	8	800	Stu	5	Pst	9	*
Gorleston	986.6	-13	SW	5	or.r.	45	97	6	800	Nb	10	-	10	4
Valentia (Cahirciveen) P	999.0	-1	WNW	5	or.r.	53	97	6	800	St	10	-	10	6
Roches Point	997.1	-2	W	4	cr.	55	97	8	1500	Nb	9	-	9	4
Pembroke (St. Ann's H.)	991.7	-6	W	5	c	55	75	6	1500	Stu	9	-	9	6
Ross-on-Wye	989.1	-6	W'S	4	cd.	55	85	8	2500	Nb	9	Pst	10	*
Leafield	988.8	-10	SWW	6	cd.	51	92	8	1500	St	4	Pst	10	*
Winchester (Worthy Dn.)	992.7	-8	SWW	4	c/r	52	92	8	1500	Stu	10	-	10	*
S. Farnborough	990.2	-12	WSW	6	o	53	85	8	800	Nb	10	-	10	*
London (Kew Obsy.)	989.7	-14	WSW	4	c	52	92	8	1500	St	9	Pst	10	*
Croydon	990.3	-14	W	6	c	53	85	7	800	Nb	10	-	10	*
Shoeburyness	989.1	-16	WSW	5	c	51	97	7	1500	Stu	10	-	10	*
Clacton-on-Sea	989.7	-11	SSW	4	c	48	92	7	4000	St	8	-	8	4
Felixstowe	988.8	-16	SSW	5	or.	48	92	7	800	Nb	10	-	10	5
Lympne	990.7	-13	WSW	6	or.r.	49	97	6	800	Nb	10	-	10	*
Scilly (St. Mary's)	1001.6	-2	W	8	cr	54	97	7	4000	Cu.Nb	10	-	10	8
Falmouth (Pendennis)	998.6	-5	NWW	5	crr	54	97	7	2500	Nb	8	Pst	10	4
Plymouth (Cattewater)	997.9	-4	WNW	9	odd.	53	92	6	800	Nb	10	-	10	4
Portland Bill	993.3	-11	WSW	7	cr.	56	85	8	1500	St	4	Cst	9	8
Southampton (Calshot)	993.1	-11	W'S	5	or.	53	92	7	800	Nb	10	-	10	3
Dungeness	992.8	-18	WSW	6	orr	53	92	7	2500	Nb	10	-	10	5
Guernsey (Fort George) P	997.5	-5	W	7	cr.	54	97	6	800	Nb	8	Pst	10	7

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR....24th November.....

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 23rd to 9h. 24th	Temperature. Max. 9h. -17h. 24th	Rainfall.† Night 17h.-9h. 23rd-24th	Rainfall.† Day 9h.-17h. 24th	Sunshine. Sunrise to Sunset. 24th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bc	bc	40	48	1	-	4.0
Douglas (I. o. M.)	c	bc	42	49	2	-	3.0
Llandudno	cq	qcbc	46	50	1	-	0.3
Colwyn Bay	ocoq	coc	45	50	4	-	0.0
Rhyl	or.	or.	47	55	2	0.1	0.0
Wallasey	iRc	cpcbc	45	50	10	0.5	0.0
Southport	cq	cq	*46	50	2	-	0.8
Blackpool	cbcc	cq	45	50	1	-	0.9
Ilkley	rc	rc	41	47	19	12	0.6
Cleethorpes	bo	do	42	50	0.4	Trace	3.3
Skegness	rcbc	bcorbc	42	51	2	1	3.1
Aberystwyth	cprc	bcc	44	51	0.5	-	1.3
Bath	c	cpbc	47	52	1	Trace	1.6
Cheltenham	c	bcb	45	50	0.5	-	0.2
Leamington Spa	c	cbr	44	50	0.4	Trace	2.2
Lowestoft	crcbc	bcer	44	50	4	2	2.8
Harwich & Dovercourt	bc	bc	45	51	-	-	4.8
Maldon	bc	bcc	45	52	-	-	3.0
Southend	c	cr	45	52	-	0.2	3.3
Bude	oqp	oqpc	45	53	1	Trace	0.4
Penzance	cbcq	cq	46	53	1	-	1.6
Paignton	bcqp	bpcclpc	46	51	1	1	1.8
Torquay	bcpq	bthbqpbq	47	52	1	1	2.0
Jersey	rqc	bcq	45	53	5	1	2.5
Weymouth	cbq.rr	bcpq	47	54	1	0.6	0.0
Bournemouth	b	b	46	52	2	-	5.8
Ventnor	bcb	b	46	52	-	-	5.7
Portsmouth (S'thsea)	cbc	bc	47	52	-	-	3.0
Bognor	cbc	bcc	47	52	0.5	-	3.7
Littlehampton	c	bc	47	52	1	-	2.9
Worthing	cbc	cbc	47	52	2	-	3.3
Brighton	cocbc	cobcc	48	53	3	-	3.2
Eastbourne	ocbbc	cb	48	52	1	-	2.9
Hastings	bccbc	bcb	45	52	1	-	?
Folkestone	cbc	bcc	45	52	Trace	-	3.1
Dover	qcbcc	qcb	46	52	Trace	-	3.7
Tunbridge Wells	coc	coc	45	51	0.3	-	1.0
Ramsgate	bc	bcc	45	52	2	-	4.0
Margate	bc	cbc	46	52	-	-	4.0
Deal	ocbc	bcc	45	52	3	-	3.6

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* Information not usually received. P The observations at 1h. G.M.T. and at Guernsey, the sunshine readings are 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. ‡ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24476 MONDAY 26th NOVEMBER 1928.

Observations at 18h. 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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	969.2	+1	NNW	2	bc+	43	85	8	1500	Cu	5	Cu	7	•
Stornoway	977.6	+17	N	6	bc/PR	45	75	7	4000	CuNb	4	-	4	•
Wick	971.9	+7	NW	3	c	43	92	8	1300	CuNb	6	CuSt	8	•
Tiree	979.9	+12	NNW	8	bc/PR	47	85	8	1500	CuNb	4	-	4	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	978.5	+2	WNW	5	cRS	39	92	7	1500	Nb	9	ASt	10	1
Malin Head (red: bcr₀)	983.9	+14	NNW	8	~~bcr₀~~	48	85	7	4000	CuNb	7	-	7	•
Renfrew	974.4	+3	NW	4	cr₀	45	85	8	1500	StCu	9	-	9	2
Edinburgh (Inchkeith)	970.0	0	W	5	bc	45	75	8	-	-	0	ACu	7	•
Leuchars	97?.3 (red correction)	+2 (red)	WNW (red)	6	bc+	46	75 (red: 6)	9	4000	CuNb	5	ACu	5	2
Eskdalemuir (red)	972.4	-1	NW'W	6	bc/r	41	75	8	2500	Cu	6	ACu	7	2
Tynemouth	970.4	-5	W	3	bc/r	43	85	7	1500	Nb	5	Cu	6	•
Blacksod Point	994.4	+3	NW	7	c	49	75	7	*	CuNb	8	-	8	•
Donaghadee	981.2	+7	WNW	9	bc/PR	48	75	6	1500	CuNb	7	-	7	•
Birr Castle	992.0	•	W	4	c/pc	49	85	7	1500	Cu	9	-	9	•
Holyhead	984.0	-1	WNW	9	c	51	85	6	1500	St	9	-	9	1
Liverpool (Bidston)	977.1	-3	W'N	11	c/T	49	75	7	1500	CuNb	9	-	9	•
Chester (Sealand)	979.6	-4	WNW	9	c/pr₀	50	65	7	1500	StCu	9	-	9	2
Harrogate	973.1	-7	W'N	7	cr	42	85	7	2500	Nb	7	ASt	9	•
Spurn Head	972.7	-6	W'N	8	c	48	75	7	4000	CuNb	4	ACu	8	•
Birmingham (Edgbaston)	982.0	-3	W	7	c	49	55	8	1500	Nb	9	-	9	2
Cranwell	977.0	-4	WNW	6	cr+	47	85	6	800	Nb	9	-	9	2
Gorleston	976.5	-8	WNW	6	bc/r (corrected)	46	92	6	2500	Cu	4	-	4	•
Valentia (Cahirciveen)	1002.1	+4	WNW	6	c	52	65	7	2500	StCu	5	ASt	9	2
Roches Point	997.8	+1	NW	5	bc	52	75	8	1500	CuNb	2	CiCu	7	•
Pembroke (St. Ann's H.)	989.9	+1	W	3	bc·	53	75	6	1500	Cu	4	ACu	6	•
Ross-on-Wye	985.5	-1	W'N	8	cjp	51	55	7	4000	Cu	8	-	8	2
Leafield	984.1	~~-6~~ -3 (red)	W'N	7	c/pr₀	49	65	8	4000	CuNb	9	-	9	2
Winchester (Worthy Dn.)	987.8	-2	W	7	c/r	51	75	7	1500	StCu	6	ASt	8	2
S. Farnborough	985.0	-5	W'N	6	bc-	54	45	7	1500	StCu	6	CiCu	7	2
London (Kew Obsy.)	983.4	-6	W'N	6	bc	52	55	7	2500	Cu	4	CiCu	7	2
Croydon	983.7	-6	NW	6	c-	51	75	7	4000	StCu	9	-	9	2
Shoeburyness	980.4	-5	WNW	5	c/pr₀	54	85	7	1500	StCu	5	ACu	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	979.8	-5	WNW	7	cr	50	75	7	1500	Nb	8	ASt	10	2
Lympne	981.1	-8	W'N	8	c/r	55	65	8	1500	St	8	ASt	10	1
Scilly (St. Mary's)	999.4	-2	W	8	cr	54	97	6	4000	CuNb	10	-	10	•
Falmouth (Pendennis)	996.7	-2	NW'W	8	c-	55	85	7	4000	CuNb	6	ASt	8	•
Plymouth (Cattewater)	995.2	-1	WNW	8	bc-	55	65	7	1500	CuNb	4	-	4	2
Portland Bill	988.4	-4	W	7	cr₀	55	85	6	1500	St	6	Cu	8	•
Southampton (Calshot)	985.6	-6	NW'W	8	c/pr₀	55	55	7	1500	StCu	7	ACu	8	1
Dungeness	980.7	-8	WNW	6	c	56	65	8	2500	StCu	4	ACu	10	•
Guernsey (Fort George)	994.2	-6	W	8	cd₀d₀	55	92	6	800	St	7	ASt	9	•

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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	973.9	+6	NNW	2	cjp	40	92	8	1500	CuNb	5	ASt	9	•
Stornoway	981.7	+2	NNW	6	bc/PR	42	85	7	4000	CuNb	5	-	5	5
Wick	978.6	+6	NNW	3	c/pr₀	41	92	8	1500	CuNb	5	CuSt	8	3
Tiree	986.5	+3	NNW	6	bc	47	85	8	1500	CuNb	3	ACu	5	7
Nairn	981.3	•	WNW	2	bc	41	85	8	1500	CuNb	7	-	7	•
Aberdeen	978.6	+9	NW	5	bc/pr₀	41	85	8	2500	CuNb	3	-	3	1
Malin Head	990.4	+6	NW'W	6	bc/pr₀	47	75	7	4000	CuNb	7	-	7	7
Renfrew	984.6	+11	NW (red correction)	6	bv	44	75	9	4000	Cu	1	-	1	•
Edinburgh (Inchkeith)	980.9	+10	N	3 (red)	bv	45	65	9	4000	Cu	1	ACu	2	1
Leuchars	981.5	+13	WNW	4	b	42	75	8	4000	StCu (red St)	2	ACu	2	•
Eskdalemuir (red)	982.7	+12	NW	6	b-	41	75	8	2500	Cu	1	-	1	•
Tynemouth	979.9	+12	NW	3	bc	45	75	8	1500	Cu	3	-	3	4
Blacksod Point	999.1	+5	W	7	bc	48	65	7	•	CuNb	4	-	4	8
Donaghadee	991.0	+8	NW'N	7	bc/PR	44	75	7	1500	CuNb	6	-	6	6
Birr Castle	995.2	•	W	4	c	48	75	7	1500	Cu	3	ACu	9	•
Holyhead	991.4	+7	NW'W	9	bc-	49	75	7	2500	StCu	7	-	7	8
Liverpool (Bidston)	982.8	+12	W'N	9	c	48	75	7	1500	CuNb	8	-	8	•
Chester (Sealand)	987.6	+13 (red)	NW'W	9	cr₀	49	75	6	800	St	9	-	9	•
Harrogate	981.6	+14	W'N	7	b	45	65	8	-	-	0	CiSt	1	•
Spurn Head	976.8	+9	NW'W	8	bc-	48	85	7	4000	CuNb	6	-	6	6
Birmingham (Edgbaston)	988.3	+10	WNW	6	or₀	45	75	8	1500	Nb	10	-	10	•
Cranwell	981.6	+10	NW'W	7	b-	46	75	8	2500	StCu	1	-	1	•
Gorleston	976.1	+4	NW'W	7	bc-	46	85	7	2500	Cu	7	-	7	1
Valentia (Cahirciveen)	1004.6	+4	NW'W	6	c	51	65	8	2500	StCu	9	-	9	6
Roches Point	1001.4	+4	NW	5	bc	49	75	8	2500	StCu	4	-	4	4
Pembroke (St. Ann's H.)	995.6	+6	NW'W	6	c+	51	75	7	800	Cu	7	ACu	9	7
Ross-on-Wye	990.8	+6	WNW	7	bc/pr₀	49	55	8	4000	Cu	6	-	6	•
Leafield	988.2	+8	NW'W	6	bc-	46	65	8	4000	StCu	3	-	3	•
Winchester (Worthy Dn.)	991.0	+5	W'N	6	c/pr₀	48	65	8	2500	StCu	9	-	9	•
S. Farnborough	988.7	+7	WNW	6	b	49	55	8	2500	Cu	2	-	2	•
London (Kew Obsy.)	987.1	+7	W'N	5	bc	50	55	7	2500	CuNb	6	-	6	•
Croydon	987.4	+6	NW	7	c	50	55	6	1500	StCu	9	-	9	•
Shoeburyness	982.8	+4	W'N	7	c/pr₀	50	97	7	1500	StCu	9	-	9	•
Clacton-on-Sea	980.7	+3	WNW	8	cr	48	75	7	4000	Nb	8	-	8	6
Felixstowe	980.3	+4	WNW	6	c	49	75	7	2500	StCu	9	-	9	6
Lympne	983.9	+3	WNW	7	cr₀	49	65	8	1500	Nb	9	-	9	•
Scilly (St. Mary's)	1002.6	+3	WNW	7	bc-	51	75	7	4000	StCu	3	-	3	8
Falmouth (Pendennis)	1000.3	+3	NW	7	bc-	51	65	7	4000	CuNb	6	-	6	4
Plymouth (Cattewater)	998.7	+4	NW	7	bc	52	65	7	2500	CuNb	6	-	6	5
Portland Bill	992.5	+6	WNW	8	bc	52	75	8	2500	Cu	7	-	7	8
Southampton (Calshot)	990.3	+7	NW'W	7	bc-	50	55	7	2500	Cu	1	ACu	3	6
Dungeness	982.3	+2	W	8	c	57 (red) ~~47~~	85	8	2500	StCu	8	-	8	7
Guernsey (Fort George)	998.4	+5	WNW	7	bc-	53	65	7	1500	CuNb	6	-	6	7

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

Station	Heights above M.S.L. in feet.	Weather Morning (24 hours ended 9h.)	Weather Afternoon	Weather Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h.
Kew	18	bcq r rq	rqpc bcq	pc bc	56	45	40	1	Tr	0.8	•	•	8
Croydon	244	cofrq	rqurc	bcm bc	56	44	39	0.4	-	0.5	•	•	6
Greenwich (Royal Obsy.)	149	cdc	crp.q	cqbc	56	43	36	3	-	0.4	60	67	4
City (Bunhill Row)	30	•	•	•	•	•	•	•	•	0.5	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	56	44	38	4		0.6	69	69	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.8	•	•	•
Camden Square	110	o,or	oroc	•	53	46	*	4	-	•	•	73	•
Kensington Palace	80	o	orbcc	•	56	44	37	3	-	•	(At 18h) 59	69	•
Hampstead Observatory	450	•	•	•	54	40	32	4	T-	1.4	•	81	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 26th

South Kensington			
Max.	Time.	Min.	Time.
0.4	11h 25th	<0.3	5h 26th

Kew Observatory			
Max.	Time.	Min.	Time.
0.1	17h 25th	<0.1	2h 26th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 25th 17 h 00 m. to 26th 6 h 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.30	8 3	60
δ Ursae Minoris	13.30	7.14	54

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.

25th + 26th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.36 / 7.38	11.40 / 11.41	15.44 / 15.44
Greenwich	7.38 / 7.39	11.47 / 11.48	15.56 / 15.55
Wick	8.28 / 8.30	12.0 / 12.0	15.31 / 15.29
Valentia	8.21 / 8.22	12.28 / 12.29	16.35 / 16.35

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 (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 33 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.

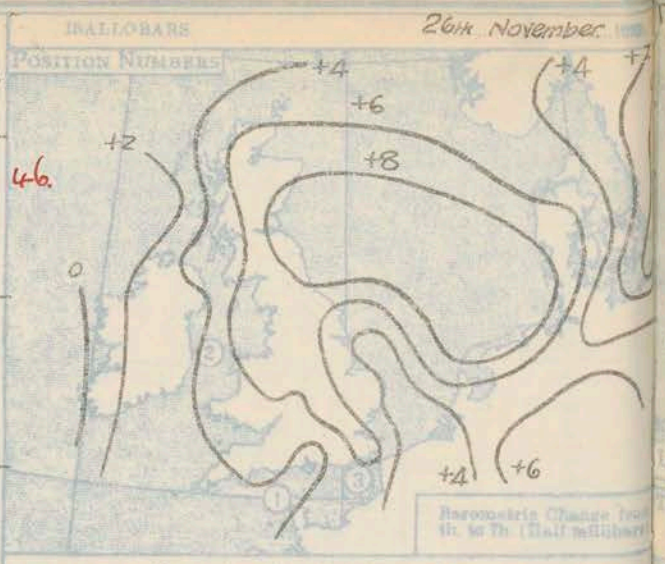
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent 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. 25th.	Weather. 18h.-18h. 25th.	Weather. 18h. 25th. to 18h. 26th.	Weather. 18h.-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	bc	cpr	cpr	cpr	46	40	•	Tr	17.30	0.1	<21.00	2.5
Stornoway	p	p	h-rh	p	~~45~~	40	•	3	<8.00	6	<21.00	2.2
Wick	c r c	pr pr	pr PR	bcpr	44	38	•	1	9.00	7	<21.00	•
Tiree	p R bc	pr h q	prbcq	pRq	48	41	37	1	<8.00	2	<21.00	0.5
Nairn	rcpr	qbc	bcprq	bc	44	38	•	1	<8.00	3	<21.00	0.5
Aberdeen	cb crsRs	crsTprq	bbcprsq	bcprs q	44	39	34	6	11.00	0.4	24.00	2.5
Malin Head	c Qr	bcqpr	bcqphr	cbcphr	49	43	•	2	<8.00	2	<21.00	1.1
Renfrew	cpq Pbc	cq b	bq bcP	bq	47	40	37	4	<8.00	2	<21.00	3.7
Edinburgh (Inchkeith)	b bc c	bc b	bbc	bbc	47	41	37	–	–	–	–	4.1
Leuchars	pr b bcq	bcvcbc	bbc	bcb	46	38	34	0.3	<8.00	–	–	4.3
Eskdalemuir	crcprbccorcr	bcqrbc	bbc	bcb	45	38	36	10	<8.00	–	–	1.7
Tynemouth	bcp q	bcq	bcb	b	52	39	34	0.2	<8.00	–	–	•
Blacksod Point	c	cbc	bcq	pbcq	51	44	•	0.1	•	0.4	•	•
Donaghadee	bc PR	bc PR	bcqpr	prbcq	49	42	•	4	<8.00	2	<21.00	•
Birr Castle	cpr q	cq	cpr	bc	52	40	31	0.1	12.30	0.1	<21.00	0.0
Holyhead	pr q	cq	bcq	cbcq	55	47	47	0.2	<8.00	–	–	0.1
Liverpool (Bidston)	q p q	q p cq	cprh	cPRh	53	42	40	Tr	<8.00	3	<21.00	0.3
Chester (Sealand)	cpq	cpr cq	bcpR	bcpr	56	45	41	0.6	<8.00	1	24.00	0.9
Harrogate	Qcbcir	Qcirb	bq	bq	49	41	38	3	<8.00	–	–	3.2
Spurn Head	crcq	cprq bc	bcq b	bc	52	44	•	3	<8.00	–	–	1.0
Birmingham (Edgbaston)	cpr	cpr	cbcpr	bcpr	54	41	38	2	9.00	2	<21.00	0.2
Cranwell	c iR bc	oir b	bbc	cb	53	41	38	9	9.00	–	–	1.0
Gorleston	cq otlrh	bccprq	bccbq	bcq	54	41	38	5	<8.00	–	–	0.0
Valentia (Cahirciveen)	or cp	c bc c	cp bc	bcp c	53	48	43	0.2	<8.00	0.2	<21.00	0.1
Roches Point	cir q bc	cbcq	bcqb	bbcc	55	45	•	1	<8.00	–	–	•
Pembroke (St. Ann's H.)	cbcm q	bc cq p	bcq	bcq	55	47	•	Tr	15.30	–	–	0.5
Ross-on-Wye	c cq	cq p	bcq bq	bqcp	57	44	38	Tr	15.30	Tr	6.30	0.6
Leafield	cir p	cp cbc	p bc	bcb	54	40	36	1	<8.00	Tr	<21.00	0.5
Winchester (Worthy Dn)	cr	cpr	cbcb	b	56	42	36	1	<8.00	–	–	0.8
S. Farnborough	odrcq	bcqp b	byb	b	55	43	38	0.3	<8.00	–	–	0.7
London (Kew Obsy.)	bcqrrcq	cqprbcq	pr bc	bc	56	45	40	1	<8.00	Tr	–	0.8
Croydon	cor q	cqirr c	cbcm	bc	56	44	39	0.4	<8.00	–	–	0.5
Shoeburyness	cpr	cpr	cpr b	b	56	43	41	0.2	12.30	0.1	<21.00	1.0
Clacton-on-Sea	cohcq	cqrc	cbcc	cbc	56	43	38	4	11.00	–	–	1.2
Felixstowe	ocr q	bccpqrc	cr	cbc	56	43	41	1	12.30	Tr	<21.00	1.1
Lympne	rr cq	cpr q	cbc	bcb	55	42	39	Tr	<8.00	–	–	0.9
Scilly (St. Mary's)	cir	cbc	bc	bcc	54	49	•	1	<8.00	–	–	0.0
Falmouth (Pendennis)	crq	cbcq	bcq	bcprq	56	46	•	0.1	<8.00	0.3	2.30	1.0
Plymouth (Cattewater)	[illegible]	crbypr	cprbq	bbcq	57	47	44	0.5	<8.00	Tr	<21.00	0.9
Portland Bill	oircqirr	cqidbq	bc	bcb	57	48	•	0.1	<8.00	–	–	•
Southampton (Calshot)	[illegible]	bcqprq	bcyqbq	bq	57	44	40	0.1	<8.00	–	–	0.6
Dungeness	orcrc	rcq bccc	bbc bq	bqbcv	57	40	•	0.1	<8.00	–	–	•
Guernsey	[illegible]	[illegible]	bcrqbq	bcq	56	48	•	1	<8.00	1	<21.00	0.0



Observations from Cross Channel Steamers.

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

General Inference.

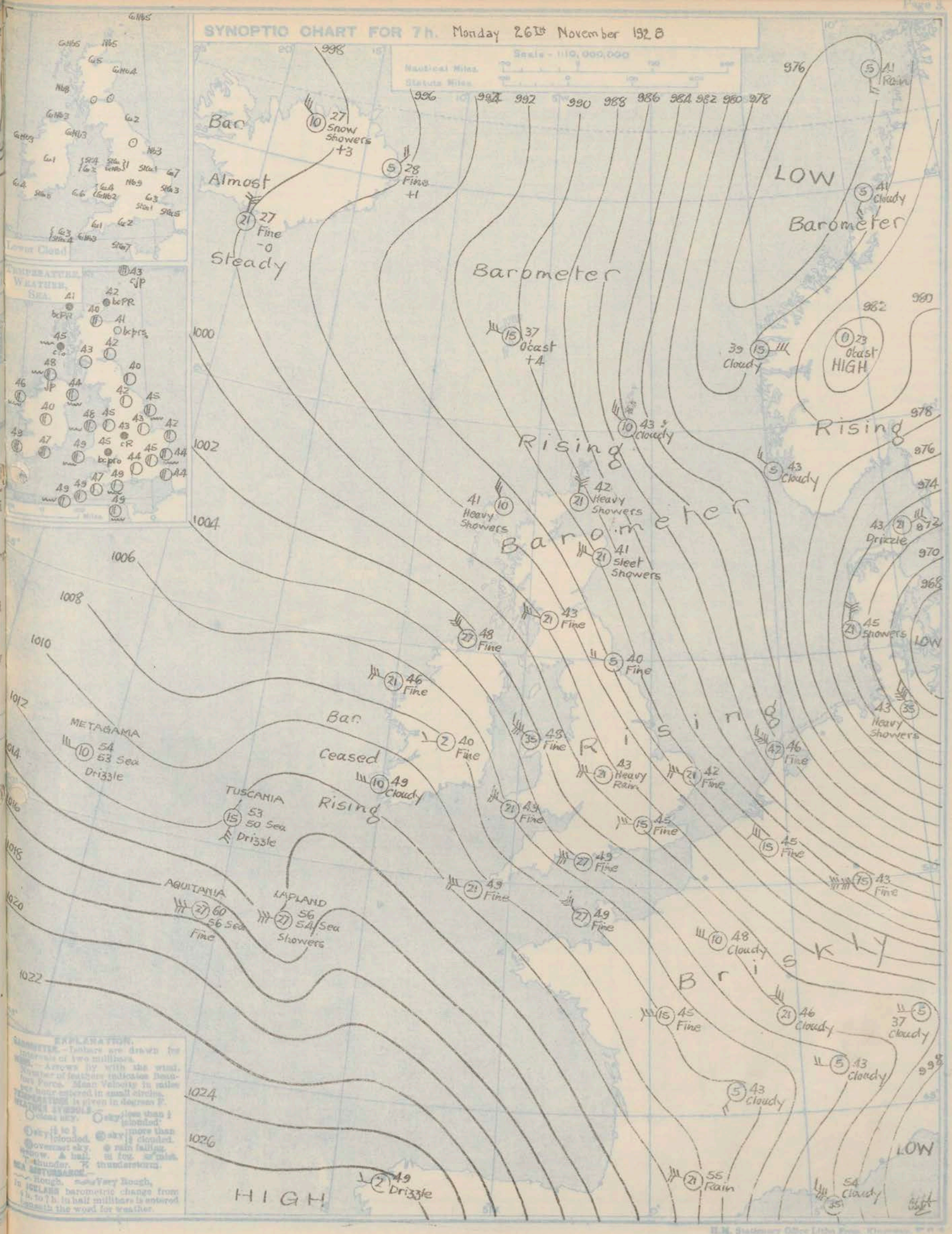
A depression centred east of Denmark is moving eastwards whilst another rapidly approaching the western coast of Ireland will increase in intensity. After mainly bright conditions early in Eastern and Southeastern England unsettled conditions with rain and a rising temperature are likely to extend to the whole country from the West. Winds are likely to back and a renewal of gales generally is to be expected.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 26th November, 1928.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Strong northwesterly winds, backing and reaching gale force at times; mainly bright at first, becoming cloudy with rain; mild.	Unsettled.
5. S.W. England 6. South Wales 7. North Wales	Strong southwesterly winds, backing and reaching gale force at times; cloudy, some rain; mild.	
8. N.W. England 9. N. Midlands	Strong northwesterly to westerly winds, backing and reaching gale force at times; cloudy, some rain; mild.	✝ South Cone still flying.
10. N.E. England 11. S.E. Scotland	Strong westerly winds, backing and reaching gale force at times; mainly bright at first becoming cloudy with rain; mild.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland, B. N.W. Scotland) 14. Mid-Scotland	Strong northwesterly winds, backing and reaching gale force at times; showers and bright intervals at first, cloudy with rain later; moderate temperature at first, rising later.	
16. N.E. Scotland 18. Orkneys and Shetlands	Strong northwesterly winds, backing; showers and bright intervals at first becoming cloudy; rather low temperature at first; slowly rising.	Wtly?
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Strong northwesterly to southerly winds, reaching gale force at times, veering later; cloudy, rain at first, showers and occasional brighter intervals later; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at G. C. Simpson, F.R.S., Director.

† For code see page 1

Trace = rain has fallen, but amount less than 0.1


SYNOPTIC CHART FOR 7h. Monday 26th November 1928
Bar
Almost
Steady
Barometer
Rising
Barometer
LOW
Barometer
Rising
HIGH
Rising
Bar
Ceased
Rising
Rising
Briskly
LOW
HIGH
LOW
METAGAMA
TUSCANIA
AQUITANIA
LAPLAND
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....MONDAY 26th NOVEMBER.....1928. No. 331...

STATIONS	Height Above M.S.L. in feet	Observations at 1h. G.M.T. 26th: 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. 26th: 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	64	978.4	+5	NW	3	c/p	43	75	8	1500	CuNb	6	ASt	9	983.4	+4	NW	3	c/p	43	85	7	1500	CuNb	5	ASt	9	*
Stornoway	30	991.3	+9	NNW	7	c/pR	*	*	7	*	*	*	*	8	995.7	+5	NNW	3	bc/pR	41	75	7	4000	CuNb	5	-	5	2
Wick	81	984.4	+6	NNW	3	bc	40	92	8	1500	CuNb	6	-	6	990.1	+7	N	5	bc/pR	42	85	8	1500	Nb	5	-	5	3
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	999.2	+2	NW'W	6	cR	45	85	8	1500	Nb	8	-	8	6
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	994.3	*	WNW	2	bc	40	85	8	2500	Cu	5	-	5	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	991.8	+8	WNW	5	bc/pRs	41	85	8	2500	CuNb	4	-	4	1
Malin Head	81	997.1	+7	NW'N	6	c/ph	47	85	7	4000	CuNb	8	-	8	1002.5	+4	NW'N	6	bc/p	48	75	8	4000	CuNb	3	-	3	6
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	957.8	+6	WNW	5	b	43	85	8	-	-	0	-	0	*
Edinburgh (Inchkeith)	120	986.0	+6	WNW	5	b	43	75	9	-	-	0	ACu	2	994.1	+8	W	5	b	42	85	8	-	-	0	ACu	1	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	994.3	+8	W	4	b+	42	85	8	4000	StCu	1	-	1	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	995.5	+6	NW'W	6	b	40	75	8	2500	Cu	1	-	1	*
Tynemouth	67	987.4	+4	W	3	b	41	85	8	1500	Cu	2	-	2	993.6	+8	WNW	2	b	40	85	7	1500	Cu	2	-	2	2
Blacksod Point ...	18	1005.2	+5	W	7	bc	48	65	8	-	CuNb	5	-	5	1007.4	+1	WNW	5	bc	46	75	8	*	CuNb	3	-	3	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.8	+6	NW	6	bc-	44	75	8	2500	CuNb	3	-	3	6
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.1	*	W	1	bc-	40	97	7	2500	Cu	1	CCu	4	*
Holyhead	20	997.7	+4	NW'W	8	c+	48	75	7	1500	St	8	-	8	1003.0	+6	NW	7	bc	48	85	7	1500	St	6	-	6	7
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	999.6	+7	WNW	7	b-	45	75	7	1500	StCu	1	-	1	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	999.9	+7	NW	7	bc/pR	46	85	8	2500	CuNb	3	-	3	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	997.1	+6	W'N	5	b	42	75	8	-	-	0	ACu	1	*
Spurn Head	30	986.7	+4	WNW	6	b	44	85	7	4000	CuNb	2	-	2	992.0	+4	WNW	7	bc	45	85	7	4000	Nb	3	-	3	6
Birmingham (Edgbaston)	536	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.4	+6	WNW	5	cR	43	85	8	1500	Nb	9	-	9	*
Cranwell	256	990.6	+6	W	4	c+	42	85	8	1500	Cu	2	ACu	8	995.8	+6	WNW	5	b-	43	85	8	4000	StCu	1	-	1	*
Gorleston	14	987.6	+9	WNW	6	b	45	85	7	4000	Cu	2	-	2	992.3	+4	WNW	5	bc+	42	85	7	4000	Cu	7	-	7	1
Valentia (Cahirciveen)‡	30	1010.0	+3	W	5	c+	48	97	8	*	CuNb	8	-	8	1011.3	0	WNW	3	c+	49	65	8	2500	Cu	4	AS	10	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.5	+3	W	2	c	47	75	8	2500	StCu	8	-	8	1
Pembroke (St. Ann's H.)	190	1001.2	+4	NW'W	5	bc	49	85	8	2500	Cu	6	-	6	1005.3	+5	NW'W	5	bc	49	85	8	1500	Cu	6	-	6	6
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.6	+6	W'N	4	bc/pR	45	75	8	4000	Cu	6	-	6	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.5	+6	WNW	5	bv-	41	75	9	4000	StCu	2	-	2	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.3	+4	WNW	5	b	42	75	8	4000	StCu	1	-	1	*
S. Farnborough ...	217	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.7	+5	W'N	4	b	44	75	8	5700	StCu	1	-	1	*
London (Kew Obsy.) ...	18	*	*	*	*	*	46	*	*	*	*	*	*	*	1000.0	+6	W'N	4	bc	45	65	8	2500	Cu	3	-	3	*
Croydon	244	995.7	+7	NW'W	5	bc+	46	65	7	2500	StCu	5	-	5	1000.0	+5	NW'W	5	bc+	44	75	7	2500	StCu	6	-	6	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	997.4	+6	WNW	6	b	45	92	8	2500	Cu	2	-	2	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	995.3	+3	WNW	5	bc	44	65	7	4000	StCu	3	-	3	4
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	995.5	+4	WNW	6	b	45	85	8	1500	St	1	-	1	7
Lympne	350	993.0	+8	NW'W	6	bc-	44	65	8	1500	Cu	3	-	3	997.7	+7	NW'W	5	bc+	43	75	8	1500	Cu	7	-	7	*
Scilly (St. Mary's) ...	103	1005.0	+4	WNW	7	bc	50	85	8	4000	Cu	3	-	3	1011.4	+3	WNW	5	bc	49	75	8	4000	StCu	7	-	7	7
Falmouth (Pendennis)	200	1004.7	+3	NW	6	bc+	50	65	7	4000	CuNb	5	-	5	1009.5	+3	NW'W	5	bc	49	65	8	4000	CuNb	3	ACu	5	2
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	+4	NW	5	b	47	85	7	2500	Cu	1	ACu	1	2
Portland Bill	52	999.3	+4	WNW	7	bc-	50	65	8	2500	Cu	4	-	4	1003.8	+5	WNW	6	b	49	75	8	2500	Cu	2	-	2	7
Southampton (Calshot)	10	999.7	+5	WNW	5	b-	46	75	8	2500	Cu	1	-	1	1002.5	+4	WNW	5	b	44	75	8	2500	Cu	1	-	1	3
Dungeness	20	992.4	+8	WNW	7	b-	46	75	8	-	-	0	CCu	1	999.5	+7	W	5	bc+	44	75	8	2500	StCu	5	-	5	5
Guernsey (Fort George) ‡	206	1004.0	+4	NW	5	c	49	85	6	1500	StCu	8	-	8	1008.6	+4	NW	6	bc	49	75	8	2500	StCu	7	-	7	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 25th November.....

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 24th. to 9h. 25th. °F.	Temperature. Max. 9h. 25th. °F.	Rainfall†. Night 17h.-9h. 24th-25th. mm.	Rainfall†. Day 9h.-17h. 25th. mm.	Sunshine. Sunrise to Sunset. 25th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	41	46	-	-	3.6
Douglas (I. o. M.) ...	cdq	cdq	43	49	7	0.5	0.2
Llandudno ...	cq	cpcq	46	52	9	Trace	0.1
Colwyn Bay ...	co	coc	46	52	8	-	0.0
Rhyl	ort	ort	45	58	9	0.5	0.0
Wallasey	iR	iRbc	44	51	8	1	0.0
Southport	cqoc	oqcq	45	50	11	1	0.6
Blackpool	orc	opc	46	49	9	2	0.4
Ilkley	rc	rbc	43	47	6	4	0.7
Cleethorpes	ob	oco	43	46	5	-	0.6
Skegness	b op	opro	43	51	2	1	0.0
Aberystwyth ...	rc	bcc	47	51	10	-	0.2
Bath	cpo	poc	48	55	1	0.3	0.5
Cheltenham ...	orq	ocqq	46	57	1	1	0.0
Leamington Spa ...	c	c	45	55	7	-	0.2
Lowestoft	cir	cir	44	55	2	2	0.1
Harwich & Deverecourt	roc	broc	44	56	3	2	0.1
Maldon	rcq	cbcr	46	57	5	1	1.0
Southend	or	orcqo	45	53	3	1	0.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ocqp	ocqp	48	54	7	0.6	0.6
Penzance	odq	ocvq	50	56	6	0.3	0.7
Paignton	rpoq	opobcq	48	57	1	Trace	1.3
Torquay	opbcpq	bcpoq	48	58	0.5	0.1	1.5
Jersey	od	obc	48	56	5	0.5	0.0
Weymouth	cocr	bcq	47	57	-	2	0.5
Bournemouth ...	o	obcc	46	57	1	-	1.0
Ventnor ...	Top	cu	47	56	1	Trace	0.7
Portsmouth (S'thsea)	oo	oo	47	57	0.4	1	0.4
Bognor	ocr	cbccbc	46	56	1	2	0.5
Littlehampton ...	co	bc	44	56	0.7	1	0.5
Worthing	ort	c	46	57	0.3	1	0.4
Brighton	ortoc	cbcco	48	56	0.2	2	0.7
Eastbourne‖	ocrq	wocb	48	56	0.2	2	0.1
Hastings‖	ortoc	cbcc	45	57	3	0.3	0.0
Folkestone	rodc	cbcc	45	57	7	Trace	1.0
Dover	occp	bbc	45	57	5	0.2	1.0
Tunbridge Wells ...	cpo	ocor	45	56	2	Trace	0.2
Ramsgate	o	cro	44	56	5	1	0.7
Margate	c-c	bcc	44	57	5	0.3	0.5
Deal	or	obco	49	57	5	1	1.0

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. and, at Guernsey, the sunshine readings are 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. ‖ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,477 Tuesday 27th NOVEMBER 1928.

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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	987.1	+2	NW	3	bcjp	44	85	7	1500	Nb	5	ASt	7	•
Stornoway	996.7	0	NW	3	bc|pr₀	44	75	7	4000	CuNb	5	ACu	7	•
Wick	992.7	+2	N	3	c|h	43	85	8	1500	[illegible]Nb	6	ASt	8	•
Tiree	1000.6	0	NW	5	bc	47	85	8	1500	CuNb	2	ACu	6	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	995.2	+2	WNW	5	b-	44	75	8	4000	StCu	<1	CiSt	1	2
Malin Head	1003.5	0	WNW	6	bc|ph₀	45	92	7	4000	CuNb	7	ACu	7	•
Renfrew	1000.2	0	WNW	3	bc	46	75	8	2500	Cu	6	-	6	2
Edinburgh (Inchkeith)	997.5	+3	W	5	bc	45	75	8	4000	Cu	2	ACu	3	•
Leuchars	997.0	+1	W	3	bc	45	65	8	2500	StCu	7	-	7	1
Eskdalemuir	998.4	+1	WNW	5	b	43	65	8	4000	Cu	2	-	2	2
Tynemouth	998.3	+4	W	3	bc	47	75	8	1500	Cu	3	-	3	•
Blacksod Point	1007.6	+1	WNW	5	bc	46	65	8	*	CuNb	6	-	6	•
Donaghadee	1003.9	-1	WNW	5	bc+	47	75	8	4000	Cu	3	CiCu	4	•
Birr Castle	1008.0	•	W	2	c+	47	75	8	4000	StCu	9	-	9	•
Holyhead	1005.9	+1	W	5	c+	49	85	8	2500	Cu	8	-	8	1
Liverpool (Bidston)	1003.5	+1	W'N	6	b-	47	75	8	1600	CuNb	2	-	2	•
Chester (Sealand)	1003.3	+1	NW	6	bc-	48	75	8	2500	Cu	3	-	3	1
Harrogate	1000.1	+6	SW'W	4	b	47	55	8	-	-	0	ACu	1	•
…rn Head	997.8	+3	WNW	7	bc	47	75	7	-	-	0	ASt	3	•
Birmingham (Edgbaston)	1004.1	+1	WNW	5	bc	48	55	8	2500	StCu	5	Ci	6	2
Cranwell	1001.6	+4	WNW	4	b+	47	75	6	4000	Cu	1	-	1	1
Gorleston	998.7	+5	NW'W	4	bc	45	85	6	4000	Cu	7	-	7	•
Valentia (Cahirciveen)	1011.1	-1	WNW	3	c	48	75	8	1500	St	6	CiCu	8	2
Roches Point	1010.8	-1	W	2	c	48	85	8	2500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1008.6	+1	NW'W	4	c+	49	85	8	1500	Cu	4	ACu	9	•
Ross-on-Wye +2.	1005.7	~~-6~~	W'N	3	bc	49	55	8	4000	CuNb	3	Ci	6	2
Leafield	1004.2	0	WNW	5	bcv	47	65	9	4000	Cu	1	CiSt	3	2
Winchester (Worthy Dn.)	1005.9	+3	W'N	4	bc	49	65	8	4000	Cu	1	Ci	7	1
S. Farnborough	1004.6	+2	WNW	5	bc	50	55	8	2500	Cu	1	Ci	5	1
London (Kew Obsy.)	1004.4	+3	NW'W	4	b	50	55	8	2500	Cu	1	Ci	2	1
Croydon	1004.5	+3	NW	4	bc-	49	65	7	4000	Cu	5	Ci	6	2
Shoeburyness	1002.2	+6	NW	6	b	49	85	8	4000	Cu	1	-	1	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1001.0	+6	NW'W	5	bc	49	75	8	2500	StCu	3	-	3	1
Lympne	1002.5	+3	NW	5	bc-	47	65	6	2600	Cu	5	-	5	1
Scilly (St. Mary's)	1012.4	-1	W	3	c+	50	75	7	4000	StCu	10	-	10	•
Falmouth (Pendennis)	1010.4	-1	NW	3	c+	50	65	8	4000	Cu	3	CiSt	8	•
Plymouth (Cattewater)	1010.1	-1	NW	5	c+	51	75	8	2500	CuNb	4	ACu	8	2
Portland Bill	1007.3	+2	WNW	6	c⊕	50	65	8	2500	Cu	6	ACu	9	•
Southampton (Calshot)	1006.3	+2	WNW	5	bc	49	75	7	2500	Cu	1	Ci	6	0
…ngeness	1003.1	+7	NW	5	bc-	50	65	7	2500	Cu	3	-	3	•
Guernsey (Fort George)	1010.2	0	NW	5	c+	50	75	8	2500	StCu	5	ASt	9	•

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	Upper Form.	Total Amt. 0-10	Sea. 0-8
Lerwick	987.9	+1	W'N	3	cjp	41	85	7	1500	CuNb	5	ASt	9	•
Stornoway	995.8	-1	NW	2	bc|pr₀	40	85	7	4000	Nb	6	-	6	1
Wick	993.9	+1	NNW	2	bc	37	97	8	1500	CuNb	4	Ci	6	9
Tiree	998.6	-2	NNW	6	bc/pr₀	43	85	8	1500	CuNb	2	CiCu	4	6
Nairn	995.4	•	WNW	2	bc	40	75	8	2500	Cu	2	ACu	6	•
Aberdeen	994.7	-1	WNW	3	bc	39	76	8	-	-	0	ACu	4	0
Malin Head	1001.5	-2	NW	6	bc|ph	45	85	8	4000	CuNb	6	-	6	6
Renfrew	999.2	-1	WSW	3	cr₀	40	97	7	2500	St	9	-	9	•
Edinburgh (Inchkeith)	997.1	-1	W	5	c	43	75	8	4000	Cu	8	-	8	3
Leuchars	997.0	0	W	3	c+	39	75	8	5700	StCu	7	ACu	9	•
Eskdalemuir	999.1	0	W'S	2	c|pr₀	39	85	8	7500	StCu	9	-	9	•
Tynemouth	998.3	0	WNW	2	bc+	40	85	7	1500	Cu	5	-	5	2
Blacksod Point	1007.2	0	W	5	bc	43	85	8	•	CuNb	7	-	7	5
Donaghadee	1003.5	-1	WNW	3	c+	42	85	8	4000	StCu	8	-	8	4
Birr Castle	1006.9	•	WSW	3	c|pr₀	43	85	7	1500	StCu	8	ACu	9	•
Holyhead	1003.9	[illegible]	W	5	c+	47	86	8	2500	St	10	-	10	4 -2.
Liverpool (Bidston)	1001.4	-2	W	5	bc-	44	75	8	2500	CuNb	3	CiCu	4	•
Chester (Sealand)	1002.6	0	W'N	4	c|PR	43	85	6	1500	St	8	-	8	•
Harrogate	1000.5	0	W	3	b	39	85	7	-	-	0	CiCu	2	•
…rn Head	998.3	0	W	6	bc	44	85	6	-	-	0	ASt	3	5
Birmingham (Edgbaston)	1004.0	-1	WSW	3	b-	42	75	8	2500	Cu	1	-	1	•
Cranwell	1001.5	-1	W'N	3	b	41	92	6	-	-	0	ACu	1	•
Gorleston	1000.3	+1	W'N	3	b	42	92	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1011.1	+1	WNW	6	c	49	65	8	2500	Nb	8	-	8	4
Roches Point	1009.8	0	NW	3	c|pr₀	47	85	8	2500	StCu	8	-	8	0
Pembroke (St. Ann's H.)	1005.6	-2	WNW	5	c|pr₀	49	85	8	1500	CuNb	4	ACu	9	4
Ross-on-Wye	1004.7	-2	W	3	b	43	75	8	4000	Cu	2	-	2	•
Leafield	1004.2	-1	WSW	4	b	39	85	8	6700	StCu	1	-	1	•
Winchester (Worthy Dn.)	1005.8	0	WSW	4	b-	43	85	8	-	-	0	-	0	•
S. Farnborough	1005.2	0	WSW	2	b	42	75	7	-	-	0	Ci	1	•
London (Kew Obsy.)	1004.8	+1	WSW	3	b	43	75	6	-	-	0	-	0	•
Croydon	1004.5	0	W'N	4	b-	43	75	6	-	-	0	-	0	•
Shoeburyness	1003.3	+1	WNW	3	b	44	92	5	-	-	0	-	0	•
Clacton-on-Sea	1002.7	+2	W	4	b	44	75	7	-	-	0	•	0	3
Felixstowe	1002.4	+2	W'S	4	b	45	92	7	-	-	0	-	0	3
Lympne	1004.2	+2	W	3	b-	41	75	6	-	-	0	-	0	•
Scilly (St. Mary's)	1010.5	-2	NW'W	3	c	47	85	8	4000	StCu	10	-	10	5
Falmouth (Pendennis)	1008.2	-2	WNW	2	cr₀	46	86	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1007.7	-3	W	4	c	48	85	7	2500	St	10	-	10	2
Portland Bill	1006.1	-1	W'N	5	bc-	49	75	8	2500	Cu	4	ACu	6	5
Southampton (Calshot)	1006.2	0	W'N	4	b-	43	75	7	-	-	0	ACu	1	0
…ngeness	1004.2	+3	W	4	b-	46	65	8	-	-	0	-	0	4
Guernsey (Fort George)	1009.3	-2	W'N	3	c+	49	75	8	2600	Cu	5	ASt	10	5

LONDON OBSERVATIONS. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 9h-21h, other stations.	Heights above M.S.L. in feet.	Weather (24 Hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day. °F.	Min. Night °F	Min. on Grass. °F.	Rainfall† mm. Day.	Night.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bcby	bcbm₀	b,cwcb	50	39	31	-	Tr	6.3	•	•	7
Croydon	244	bbcz₀	bcbz₀	bbc f bmw	50	39	34	-	0.1	4.9	•	•	6
Greenwich (Royal Obsy.)	149	cb	bcbm	bmwcbc	49	38	29	-	Tr	3.3	60	73	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	4.1	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	51	39	30	-	-	5.7	64	78	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	5.5	•	•	•
Camden Square	110	b bcb	bcb	•	49	41	*	-	-	•	•	81	•
Kensington Palace	80	bc	bc	•	51	40	31	-	-	•	(At 18h) 75	83	•
Hampstead Observatory	450	•	•	•	49	35	24	-	Tr	6.2	•	90	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 27th

South Kensington			
Max.	Time.	Min.	Time.
0.6	17h 26th	<0.3	3h 27th

Kew Observatory			
Max.	Time.	Min.	Time.
0.3	19h 26th	<0.1	3h 27th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 26th 17 h 00 m. to 27th 6 h 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.30	6.50	51
δ Ursae Minoris	13.30	6.15	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.

27th & 28th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.38	11.41	15.44
	7.39	11.41	15.43
Greenwich	7.39	11.48	15.56
	7.41	11.48	15.55
Wick	8.30	12.0	15.29
	8.32	12.0	15.28
Valentia	8.22	12.29	16.35
	8.24	12.29	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.
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
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.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

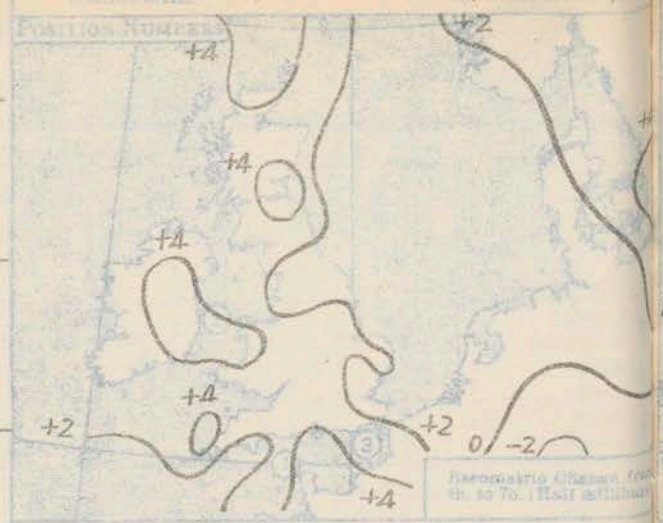
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 26th	18h.-18h. 26th	18h. 26th to 18h. 27th	18h.-7h. 27th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	Rainfall.† Day. 7h.-18h. inch	began.	Night. 18h.-7h. min.	began.	Sun 26th hours.
Lerwick	cirm bc	c pr.	c pr. bc	bc	45	38	•	2	<8.00	2	<21.00	0.1
Stornoway	p	p	c	p	44	35	•	4	<8.00	3	<21.00	1.4
Wick	pr phr	bc pr	bc pr	c prh	44	34	•	2	<8.00	3	<21.00	•
Tiree	pr. bc	pr. bc	PRq	prbcq	47	40	37	2	<8.00	2	<21.00	2.2
Nairn	bcq	bc pr	bcc	pc	42	37	•	0.1	15.30	0.2	5.30	1.8
Aberdeen	bc prs q b	bbc	bc	b	44	36	29	0.2	<8.00	-	-	3.5
Malin Head	bc phr	bc c phr	c pr. c PH	c bc phr.	48	39	•	2	<8.00	2	<21.00	1.0
Renfrew	bbc p.	bc pr	c bc pr c	bc bc	46	37	31	0.6	11.00	1	<21.00	3.8
Edinburgh (Inchkeith)	bbc	bc c	c bcc	bcc	46	39	36	-	-	-	-	5.2
Leuchars	bbc	bc	c	c, bcw	46	34	30	-	-	-	-	3.9
Eskdalemuir	bbcb	bc c pr.	c pr. bc	bc	44	35	33	0.2	15.30	0.3	<21.00	5.6
Tynemouth	bbc	bc	bcc	bc	48	37	33	-	-	-	-	•
Blacksod Point ...	pc	pc	cpc	pcc	49	38	•	2	•	2	•	•
Donaghadee	bcq	bc pr	bc pr.	cq pr	48	38	•	0.1	15.30	3	<21.00	•
Birr Castle	bcc	c pr	c pr. v	c pr.	47	38	33	0.2	14.30	0.4	<21.00	0.3
Holyhead	bcq bc	c bc c	c pr. q	c, pr.	49	43	41	-	-	0.1	<21.00	2.2
Liverpool (Bidston) ...	c p. bc	bc phc	prhq	prh Q	47	38	37	0.4	<8.00	6	<21.00	3.4
Chester (Sealand) ...	bc	c pr bc bmq	c pr. q	CPRQm.	54	39	37	2	15.30	10	<21.00	3.9
Harrogate	b	b	bbcc	bcb	47	37	32	-	-	-	-	6.6
Spurn Head	bc	bc	bcc	cbc	47	40	•	-	-	-	-	6.6
Birmingham (Edgbaston)	pr bc	bc	bcr	c r s	49	35	33	0.6	<8.00	6	22.00	4.1
Cranwell	b	b bcb	r-d	cr, b	47	36	33	-	-	Tr	22.00	6.4
Gorleston	bcq	bcq b	bbc	c	47	38	35	-	-	-	-	5.3
Valentia (Cahirciveen)	c p. c	c ir. c	bc c pq	bc c p.	50	43	40	1	9.00	2	<21.00	0.0
Roches Point	c	c p. c	c pq bc	bc c	48	42	•	0.2	13.30	2	<21.00	•
Pembroke (St. Ann's H.)	bc c q	c p. q	c bc Pq	c bc q	50	44	•	Tr.	17.30	Tr	<21.00	0.0
Ross-on-Wye	bbc	bc b	bc hr c ir	c bcc	50	38	32	-	-	5	24.00	5.6
Leafield	bc b	bc b	b	b	47	37	33	-	-	-	-	5.9
Winchester (Worthy Dn.)	bbc	bc b	bbc c r.	c r bc b	50	37	29	-	-	1	24.00	5.7
S. Farnborough ...	bbc	bc y b	b, c p	c r, b	51	37	29	-	-	0.5	24.00	5.8
London (Kew Obsy.) ...	bc by	bc bm.	b, c w	c b	50	39	31	-	-	Tr	-	6.3
Croydon	bbc z.	bc bz.	bbc c m.	c r. bc m.	50	39	34	-	-	0.1	1.30	4.9
Shoeburyness	b	bm	bm.	c pr.	49	39	37	-	-	0.2	4.30	6.8
Clacton-on-Sea ...	bc	bc b	b	bbc p bc	49	39	34	-	-	1	3.30	7.1
Felixstowe	bbc	bc b	b	bbc pr bc	49	40	37	-	-	0.5	1.30	6.8
Lympne	bc	bz. m.	bbcc	c pr. bc	47	33	29	-	-	0.3	5.30	6.2
Scilly (St. Mary's) ...	c	c ir c	c p.	bc p.	50	46	•	2	13.30	Tr	24.00	0.2
Falmouth (Pendennis)	bcc	c r	c bc pr l	bc c p. q	51	(49) 45	•	1	15.30	0.4	<21.00	0.5
Plymouth (Cattewater)	b, c	c	c pr l bc q	c pr l bc q	52	43	40	-	-	2	<21.00	1.1
Portland Bill	bbc	c	bc c phr bc	bc	51	44	•	-	-	Tr	22.00	•
Southampton (Calshot)	bbc q	bc b	bc c p.	c p. bc b	50	40	36	-	-	Tr	24.00	5.6
Dungeness	bbc	bc b	bbcc	c bc	51	37	•	-	-	-	-	•
Guernsey	bc c q.	c	ir ir bc q	bir q	51	44	•	-	-	5	<21.00	1.9

27th November



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
K	10h 26th	Hibernia	NW'W	6	c	47	54

GENERAL INFERENCE.

A depression centred near the Baltic is filling up while an anticyclone, moving east, is off the west coast of Ireland. Cold weather, with fresh to strong northwesterly winds, slowly moderating, considerable bright periods and occasional wintry showers, is probable over the British Isles and some frost is likely in many places at night.

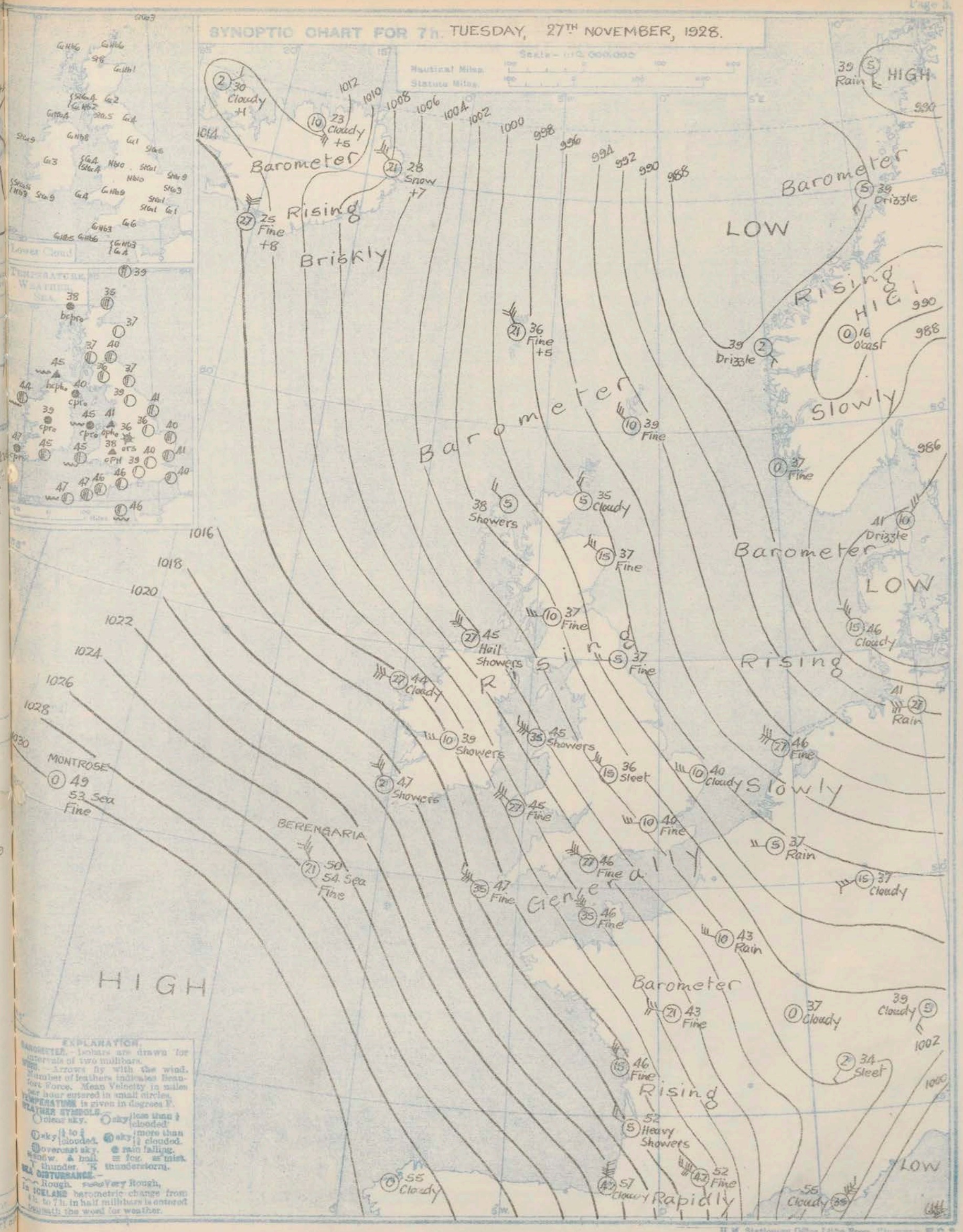
Tuesday, 27th November, 1928.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	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 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	Fresh northwesterly winds, stronger at times, slowly moderating, considerable bright periods; occasional wintry showers, cold, frost inland at night.	Considerable bright periods but cold for 24 hours.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0900 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

Zero = rain has fallen, but amount less than 0.1 in.



H.M. Stationery Office Litho Press, Hingston

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Tuesday,.....27th NOVEMBER,...1928. No..332..

Observations at 1h. G.M.T.....27th.....

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	990·1	+2	NW	3	bcjp	40	85	8	1500	CuNb	7	-	7
Stornoway	30	998·1	+3	NW	3	c	*	*	7	*	*	*	*	8
Wick	81	994·2	+5	NNW	2	bc	36	92	8	1500	CuNb	4	ACu	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1003·3	+3	NNW	6	c/PH	44	85	8	4000	CuNb	9	-	9
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	997·3	0	WSW	4	bc-	41	85	8	4000	Cu	4	ACu	7
Leuchars	20	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	734	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	997·1	0	W	3	bc-	39	92	8	1500	Cu	6	-	6
Blacknod Point ...	18	1011·0	+3	W	5	bc	44	65	7	*	CuNb	6	-	6
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	30	1004·2	+2	NW'W	7	c	46	85	8	2500	StCu	9	-	9
Liverpool (Bidston) ...	180	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	996·8	-1	W	5	c	42	92	6	2500	St	5	ACu	9
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	230	999·7	-1	W'S	4	Cfo	39	92	6	1500	StCu	9	-	9
Gorleston	14	998·4	-2	W	3	c+	40	85	6	1500	St	5	ACu	8
Valentia (Cahirciveen) P	30	1016·1	+1	NW'W	5	bc/r	47	92	8	*	CuNb	4	-	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1006·4	+3	NW	5	c+	46	92	8	1500	Cu	8	-	8
Ross-on-Wye	229	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	41	*	*	*	*	*	*	*
Croydon	344	1002·5	-2	WNW	3	c+	41	85	6	4000	St	5	ASt	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	360	1002·2	-2	NW'N	3	c+	35	97	7	2500	Cu	6	CuSt	8
Scilly (St. Mary's) ...	163	1011·8	+2	NW	7	bc-	48	75	8	4000	Cu	4	-	4
Falmouth (Pendennis)	200	1008·9	+3	NW'W	5	bc/pc	47	65	7	4000	CuNb	6	-	6
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	58	1003·6	-1	WNW	5	bc-	47	75	8	1500	Cu	3	ACu	4
Southampton (Calshot)	10	1003·2	-2	WNW	4	c/pc	43	85	8	2500	StCu	4	ACu	8
Dungeness	30	1000·9	-3	WNW	1	c+	37	92	8	-	-	0	CuSt	9
Guernsey (Fort George) P	235	1006·0	0	NW	6	bcv+	47	75	9	4000	StCu	6	-	6

Observations at 7h. 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	995·0	+4	NW	3	bc	39	75	8	1500	StCu	3	ACu	4	*
Stornoway	1000·7	+3	NW	2	bc/pc	38	92	7	4000	CuNb	6	ACu	6	1
Wick	998·0	+4	NNW	2	c	35	97	8	1500	CuNb	6	CuSt	9	0
Tiree	1003·4	+5	NNW	7	bc/pc	44	85	8	1500	CuNb	4	-	4	7
Nairn	1000·3	*	WNW	1	c	37	85	7	1500	St	8	-	8	*
Aberdeen	998·3	+3	NW	4	b	37	85	8	2500	CuNb	1	ACu	1	0
Malin Head	1006·4	+3	NW	6	bc/pc	45	85	8	4000	CuNb	4	-	4	7
Renfrew	1002·2	+3	W	3	bc	37	85	7	2500	StCu	6	-	6	*
Edinburgh (Inchkeith)	999·4	+4	W	3	c	40	85	8	4000	Cu	2	ACu	8	1
Leuchars	999·3	+5	WSW	3	bc-	35	92	8	4000	StCu	3	ACu	6	*
Eskdalemuir	1000·1	+3	NW'W	5	bc	36	85	8	2500	StCu	5	Cu	6	*
Tynemouth	998·7	+3	W	2	bc	37	85	7	1500	Cu	4	ACu	6	1
Blacknod Point ...	1014·2	+3	WNW	6	c	44	65	8	*	StCu	9	-	9	7
Donaghadee	1005·8	+3	NW	6	c/pc	40	85	8	2500	CuNb	8	-	8	5
Birr Castle	1014·2	*	W	3	c/pc	39	85	7	1500	Cu	3	ASt	8	*
Holyhead	1006·8	+4	NW'W	7	c/pc	45	85	8	2500	Cu	8	-	8	6
Liverpool (Bidston) ...	1003·8	+2	NW'W	7	c/ph	41	85	7	2500	Nb	10	-	10	*
Chester (Sealand) ...	1003·9	+4	NW'W	7	c/PR	41	85	6	1500	Nb	9	-	9	*
Harrogate	1000·8	+1	W'N	5	b	39	75	8	4000	Cu	1	-	1	*
Spurn Head	998·3	+1	NW'W	6	bc	41	85	7	5700	StCu	5	-	5	4
Birmingham (Edgbaston)	1005·3	+3	NW	4	ors	36	92	7	800	Nb	10	-	10	*
Cranwell	1001·0	+3	WSW	3	b	36	92	8	4000	StCu	1	-	1	*
Gorleston	999·0	+1	WNW	3	c	40	92	7	4000	StCu	9	-	9	0
Valentia (Cahirciveen) P	1019·7	+3	NNW	5	c/pc	47	65	8	2500	StCu	8	-	8	4
Roches Point	1016·3	+3	NW	4	c	45	85	8	4000	StCu	9	-	9	1
Pembroke (St. Ann's H.)	1010·4	+3	NW	6	bc	45	85	8	1500	Cu	4	-	4	6
Ross-on-Wye	1006·7	+3	WNW	6	c/PH	38	85	8	4000	CuNb	9	-	9	*
Leafield	1004·2	+2	WNW	5	bcv+	38	75	9	5700	StCu	5	-	5	*
Winchester (Worthy Dn.)	1005·7	+2	W	5	b	39	85	8	4000	StCu	2	-	2	*
S. Farnborough ...	1004·3	+2	WNW	4	b	39	85	8	5700	StCu	1	ACu	2	*
London (Kew Obsy.) ...	1003·9	+3	W	3	b	40	75	8	4000	StCu	1	ACu	1	*
Croydon	1004·0	+2	NW'W	4	bc+	39	85	6	2500	StCu	2	ACu	5	*
Shoeburyness	1002·0	+1	WNW	4	bc	40	97	7	5700	StCu	6	ASt	7	*
Clacton-on-Sea ...	1000·5	+1	WNW	4	bc	41	85	7	7200	StCu	3	Cu	3	2
Felixstowe	1000·6	+3	WNW	4	bc	41	92	8	-	-	0	CuCu	5	3
Lympne	1001·8	+2	NW	5	bc-	38	92	7	800	Nb	5	ACu	6	*
Scilly (St. Mary's) ...	1015·2	+2	NW	7	bc	47	75	8	4000	CuNb	5	-	5	7
Falmouth (Pendennis)	1013·4	+4	NW	5	c+	47	65	7	4000	CuNb	6	ASt	8	1
Plymouth (Cattewater)	1012·1	+2	NW	5	c	46	75	8	2500	CuNb	3	CuSt	8	1
Portland Bill	1008·9	+2	NW	6	bc+	46	75	8	2500	Cu	6	-	6	5
Southampton (Calshot)	1005·9	+4	WNW	5	b	41	75	8	2500	StCu	1	ACu	2	0
Dungeness	1002·1	+3	NW	4	bc+	40	85	8	1500	Cu	1	CuCu	3	3
Guernsey (Fort George) P	1010·8	+3	NNW	7	bc	46	65	8	2500	Cu	7	-	7	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR....26th November.

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 25th to 9h. 26th	Temperature. Max. 9h. 25th-17h. 26th	Rainfall‡ Night 17h.-9h. 25th-26th	Rainfall‡ Day 9h.-17h. 26th	Sunshine. Sunrise to Sunset 26th	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	(2)	(3)	(4) °F	(5) °F	(6) mm.	(7) mm.	(8) hr.								
Berwick-on-Tweed	bc	bc	40	46	-	-	6·6	Bude	bcpcp	cp	39	52	0·3	1	0·9
Douglas (I. o. M.) ...	b	c	42	47	4	-	5·7	Penzance	c	cor2	48	53	0·5	2	0·2
Llandudno ...	cdc	bcpc	48	49	-	0·3	2·5	Paignton	pb	bbccp	46	53	0·5	Trace	3·2
Colwyn Bay ...	cb	bcc	47	49	-	-	2·9	Torquay	pbc	bcp	46	52	0·5	Trace	3·7
Rhyl	bc	bcc	48	49	-	-	2·8	Jersey	cbc	bcc	48	53	-	-	2·0
Wallasey	Pcb	b	43	49	2	0·3	4·2	Weymouth	b	bccb	45	52	0·1	-	3·5
Southport	copc	bccb	*41	48	9	1	4·3	Bournemouth ...	b	c	44	50	-	-	3·7
Blackpool	bccp	bcc	43	49	3	0·2	4·3	Ventnor ...	b	bc	44	50	-	-	4·3
Ilkley	b	b	40	48	-	-	4·8	Portsmouth (S'thsea)	b	b	45	51	-	-	5·5
Cleethorpes... ...	b	b	41	48	-	-	6·7	Bognor	b	b	42	51	-	-	5·7
Skegness	b	b	41	49	0·2	-	6·6	Littlehampton ...	bbc	bc	43	50	-	-	5·8
Aberystwyth ...	bbc	bc	47	49	-	-	2·6	Worthing	b	bbc	43	51	-	-	6·2
Bath	bbc	bccb	45	51	-	-	4·9	Brighton	bcbbc	cbcc	44	51	-	-	6·5
Cheltenham‖ ...	bbcb	bbcb	43	50	Trace	-	6·0	Eastbourne‖	b	b	43	51	-	-	6·8
Leamington Spa ...	c	bc	42	50	2	-	4·1	Hastings‖	bbcb	b	43	51	-	-	?
Lowestoft	b	b	41	47	-	-	5·2	Folkestone	cbc	bcm	44	50	-	-	6·4
Harwich & Dovercourt	bc	bcz	42	49	Trace	-	6·8	Dover	qbbc	bcb	45	50	Trace	-	7·0
Maldon	bcb	b	44	49	-	-	6·4	Tunbridge Wells ...	bcb	bcb	43	50	-	-	6·0
Southend	b	b	44	55	-	-	6·4	Ramsgate	bc	bcb	44	50	0·2	-	6·0
								Margate	bc	bc	45	48	Trace	-	6·1
								Deal	b	bbc	44	49	0·3	-	3·7

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* Information not usually received. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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 24478 Wednesday 28th November 1928.

Observations at 13h. 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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	989.2	-4	NNW	2	c/p	40	85	8	1500	CuNb	8	-	8	•
Stornoway	1008.7	+9	N	4	bc/PH	40	85	7	4000	CuNb	6	-	6	•
Wick	1004.1	+5	NNW	3	crs/rs	38	92	8	1500	CuNb	6	CiSt	8	•
Tiree	1010.2	+3	N'W	7	bc	45	85	8	2500	Cu	4	-	4	•
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1003.8	+5	WNW	3	b	41	75	8	2500	CuNb	1	-	1	2
Malin Head	1012.4	+6	NNW	6	bc/ph	45	85	8	4000	Cu	6	-	6	•
Renfrew	1006.9	+5	WNW	3	bc	43	75	8	4000	Cu	1	Ci	6	2
Edinburgh (Inchkeith)	1005.0	+6	WNW	2	bc	43	65	8	4000	Cu	2	Ci	3	•
Leuchars	1005.2	+5	WNW	3	bc	42	65	8	4000	StCu	2	ACu	3	1
Eskdalemuir	1005.7	+4	NW	4	b	39	75	8	4000	Cu	2	-	2	2
Tynemouth	1004.0	+3	WNW	2	bc	43	75	6	1500	Cu	3	-	3	•
Blacksod Point	1018.9	+2	NW	6	bc	47	75	8	*	CuNb	7	-	7	•
Donaghadee	1010.9	+6	NW'N	6	bc/pr	40	85	8	2500	CuNb	6	-	6	•
Birr Castle	1017.3	*	W	4	bc/pr	44	85	7	1500	CuNb	4	-	4	•
Holyhead	1010.0	+3	NW	7	bc-	46	75	8	2500	CuNb	4	-	4	1
Liverpool (Bidston)	1007.8	+3	NW	7	c/pr	43	85	8	2500	Nb	9	-	9	•
Chester (Sealand)	1007.7	+4	NW	6	bc/PH	43	85	7	1500	CuNb	6	ACu	7	2
Harrogate	1006.0	+3	WNW	5	b	42	65	8	4000	Cu	1	-	1	•
Spurn Head	1002.9	+3	NW'W	5	bc-	43	75	6	4000	Cu	2	CiSt	3	•
Birmingham (Edgbaston)	1007.7	+1	WNW	5	bc	40	85	6	1500	Cu	7	-	7	2
Cranwell	1004.9	+4	NW	4	c+	43	75	6	4000	StCu	9	-	9	1
Gorleston	1001.8	+2	N'W	5	oh(r)	43	85	6	800	Nb	10	-	10	•
Valentia (Cahirciveen)	1023.1	+3	NW'N	5	bc	48	65	8	2500	StCu	5	ACu	7	2
Roches Point	1019.6	+1	NW	6	c/pr	45	85	8	2500	CuNb	4	-	4	•
Pembroke (St. Ann's H.)	1013.2	+3	NW	5	bc	47	92	8	1500	Cu	7	-	7	•
Ross-on-Wye	1008.7	+1	WNW	6	bc	44	85	8	4000	Cu	1	Ci	3	2
Leafield	1007.5	+2	NW	5	bc/pr	40	85	9	1500	CuNb	3	-	3	2
Winchester (Worthy Dn)	1008.6	+2	W'N	5	c+	44	65	8	4000	StCu	8	-	8	1
S. Farnborough	1007.4	+2	NNW	4	c	44	65	8	2500	Cu	6	Ci	8	1
London (Kew Obsy.)	1007.4	+2	WNW	3	c	43	75	8	1500	StCu	9	-	9	1
Croydon	1007.1	+2	NNW	5	c	42	75	6	1500	St	9	-	9	2
Shoeburyness	1005.0	+3	NW'N	5	c+	44	85	8	2500	StCu	9	-	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1003.6	+2	NW	4	bc	43	75	8	2500	CuNb	6	-	6	1
Lympne	1004.8	+2	W'N	5	c	41	75	6	1500	Cu	6	ACu	8	1
Scilly (St. Mary's)	1018.1	+2	NW	7	bc	49	75	8	4000	Cu	5	-	5	•
Falmouth (Pendennis)	1016.3	+1	NNW	6	bc	48	65	8	4000	CuNb	4	ACu	6	•
Plymouth (Cattewater)	1014.9	+1	NNW	6	bc	48	75	8	2500	CuNb	5	-	5	2
Portland Bill	1009.0	+1	NW	6	bc	48	65	8	2500	Cu	4	-	4	•
Southampton (Calshot)	1008.8	+2	NW	6	bc	46	65	8	4000	Cu	5	-	5	1
Dungeness	1005.2	+2	WNW	4	bc+	43	75	8	4000	StCu	5	CiSt	7	•
Guernsey (Fort George)	1012.7	0	NW	7	bc	48	65	8	2500	Cu	7	-	7	•

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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1005.5	+9	N	3	c/pr	40	92	7	1500	CuNb	9	-	9	-
Stornoway	1015.5	+9	N	2	bc	38	85	7	4000	CuNb	6	-	6	2
Wick	1009.2	+6	N	4	c/PRS	38	92	8	1500	CuNb	6	CiSt	8	1
Tiree	1017.0	+9	N'W	5	bc	42	85	8	2500	CuNb	4	-	4	4
Nairn	1012.7	*	WNW	1	bc	37	85	8	4000	StCu	5	-	5	•
Aberdeen	1009.5	+7	WNW	5	cr	38	85	8	2500	CuNb	8	-	8	0
Malin Head	1018.9	+8	N'W	6	bc/ph	45	85	8	4000	Cu	5	-	5	7
Renfrew	1013.8	+9	WNW	2	b-	36	92	8	4000	StCu	1	-	1	•
Edinburgh (Inchkeith)	1012.0	+7	WNW	3	bc	39	75	8	4000	Cu	2	ACu	4	1
Leuchars	1011.8	+8	W	3	bc	37	85	8	5700	StCu	1	ACu	4	•
Eskdalemuir	1012.4	+9	NNW	5	b	37	75	7	2500	Cu	1	-	1	•
Tynemouth	1009.6	+7	WNW	2	bc	38	85	6	1500	Cu	3	-	3	2
Blacksod Point	1023.6	+4	NNW	5	bc	45	85	7	*	CuNb	6	-	6	7
Donaghadee	1017.1	+9	NW'N	6	bc/ph	42	85	8	2500	CuNb	7	-	7	5
Birr Castle	1021.6	*	W	4	bc/pr	40	92	7	2600	CuNb	2	ASt	5	•
Holyhead	1014.0	+5	NW	8	b-	46	75	8	2500	Cu	1	-	1	7
Liverpool (Bidston)	1011.8	+4	NNW	7	bc/r	44	65	8	2500	St	3	Ci	5	•
Chester (Sealand)	1011.3	+4	NNW	5	bc/PR	43	85	8	4000	StCu	3	Ci	4	•
Harrogate	1010.4	+7	WNW	4	b	38	75	7	-	-	0	-	0	•
Spurn Head	1007.8	+4	NW'W	5	bc	42	85	7	5700	StCu	4	-	4	5
Birmingham (Edgbaston)	1012.5	+6	WNW	3	bc-	39	85	6	2500	Cu	4	-	4	•
Cranwell	1010.0	+4	NW'W	4	b-	37	85	6	2500	St	1	-	1	•
Gorleston	1006.9	+6	N'W	3	oh(r)	39	85	6	800	Nb	10	-	10	0
Valentia (Cahirciveen)	1026.2	+4	N'W	6	bc/pr	46	75	8	2500	Nb	6	ACu	7	5
Roches Point	1022.5	+3	NW	5	bc	45	85	8	2500	CuNb	3	-	3	4
Pembroke (St. Ann's H.)	1016.0	+4	NW	5	bc	46	92	8	1500	Cu	6	-	6	6
Ross-on-Wye	1013.7	+5	NW	3	bc+	40	75	8	4000	Cu	3	Ci	3	•
Leafield	1011.3	+3	NW	6	b	37	85	8	1500	CuNb	1	-	1	•
Winchester (Worthy Dn)	1012.4	+5	W'N	5	bc-	39	75	8	2600	StCu	2	ACu	3	•
S. Farnborough	1011.2	+5	NW	4	bc	40	85	8	4000	StCu	3	Ci	4	•
London (Kew Obsy.)	1011.1	+7	NW	3	b	40	85	7	-	-	0	ACu	2	•
Croydon	1010.9	+6	NW'N	3	c	39	85	6	1600	St	8	-	8	•
Shoeburyness	1009.6	+6	WNW	2	b-	39	97	8	-	-	0	ACu	2	•
Clacton-on-Sea	1008.2	+6	NW	3	bc	39	85	6	5700	StCu	3	CiSt	5	2
Felixstowe	1008.3	+5	NNW	3	c	40	85	6	-	-	0	ACu	8	1
Lympne	1008.4	+5	W'N	4	b-	39	85	6	-	-	0	-	0	•
Scilly (St. Mary's)	1020.3	+1	NW	7	bc	47	75	7	4000	CuNb	5	-	5	7
Falmouth (Pendennis)	1018.0	+3	NNW	5	bc	47	65	8	4000	CuNb	5	-	5	1
Plymouth (Cattewater)	1017.2	+4	NNW	5	bc/pr	46	75	8	2500	CuNb	4	-	4	2
Portland Bill	1013.0	+6	NW	6	bc-	44	75	8	2500	CuNb	1	ACu	3	6
Southampton (Calshot)	1012.3	+6	NW'N	4	bc/ph	39	85	7	2500	CuNb	4	-	4	3
Dungeness	1008.7	+5	WNW	2 3	b-	38	85	6	-	-	0	-	0	2
Guernsey (Fort George)	1015.8	+3	NNW	6	bc	46	75	8	2500	CuNb	4	ACu	7	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. % (TO-DAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility. 9h.
Kew	18	bcp,c	cp,	bwbx	45	36	30	Tr	-	0·9	*	*	6
Croydon	244	bcp(z)	c(pr)	bwbx	43	33	27	Tr	-	1·1	*	*	5
Greenwich (Royal Obsy.)	149	c	c	cbwxm	43	36	28	-	Tr	0·3	69	66	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·3	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	45	37	29	-	-	0·6	69	68	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0·7	*	*	*
Camden Square	110	c	cbcc	*	42	28	*	-	-	*	*	75	*
Kensington Palace	30	co	bcc	*	43	37	28	-	-	*	(At 18h.) 82	71	*
Hampstead Observatory	450	*	*	*	41	31	24	-	Tr	0·6	*	84	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 28th

South Kensington	Max.	Time.	Min.	Time.
	0·6	13h 27th	<0·3	5h 28th

Kew Observatory	Max.	Time.	Min.	Time.
	0·3	19h 27th	0·1	12h 27th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 27th ... 17h 00m. to 28th ... 6h 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.30	12·37	94
δ Ursae Minoris	13.30	12·37	84

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-29th, November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·39 7·41	11·41 11·41	15·43 15·42
Greenwich	7·41 7·42	11·48 11·48	15·55 15·54
Wick	8·32 8·34	12·0 12·1	15·28 15·27
Valentia	8·24 8·25	12·28 12·29	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.
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 "sandwich" 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.

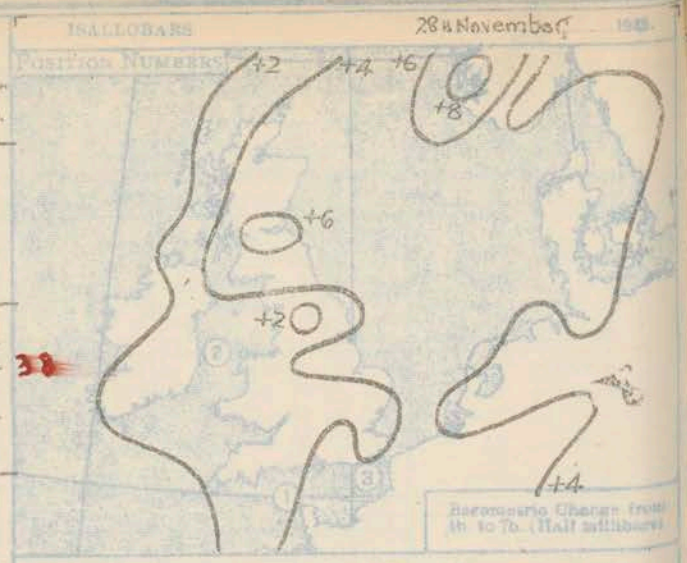
¶ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 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.	5½ „
7. Good.	11½ „
8. Very good.	21 „
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. 27th	18h.-18h. 27th	18h. 27th to 1h. 28th	1h.-7h. 28th	TEMPERATURE. MAX. Day. Th.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL. Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 27th Hours.
Lerwick	bcc	bccpr.	bcpr.c	cpr.	41	36	•	2	14.30	0.2	<21.00	2.1
Stornoway	p	bcphrbc	~~bbc~~ cphrc	cphrc	40	34	•	3	<8.00	1	21.00	2.2
Wick	cPRih.s	cPrs	Phrs	Phrs	40	36	•	1	<8.00	2	<21.00	•
Tiree	prhq	prhbc	prhbc	bcc	45	40	35	0.6	<8.00	0.2	<21.00	2.4
Hairn	cprbc	bc	bcx	bc	39	35	•	1	<8.00	-	-	0.8
Aberdeen	b	bcq pr	bcprs	bcprs	41	35	31	1	14.30	5	<21.00	5.3
Malin Head	bcphr	bcphr	bcphcbcpr.	bcpr.bc	47	41	•	2	<8.00	0.5	<21.00	2.1
Renfrew	b pc	bcp	bc	bcc	43	32	24	-	-	-	-	5.4
Edinburgh (Inchkeith)	cbc	b-bc	bcb	bbcc	44	[illegible]	32	-	-	-	-	4.4
Leuchars	bc	bc	bcbbc	bcxcx	43	33	28	-	-	-	-	4.7
Eskdalemuir	bcb	bcb	bbx	bxbcx	41	31	24	-	-	-	-	4.4
Tynemouth	bc	bc	bc	bc	43	36	30	-	-	-	-	•
Blacksod Point ...	pc	pcq	pc	bcc	47	42	•	2	•	0.4	•	•
Donaghadee	cqprs	bcphr	bcpr.	pr.bc	44	39	•	5	<8.00	3	<21.00	•
Birr Castle	bq pr	bcpr.	bc	bcc	46	35	27	0.2	<8.00	-	-	4.8
Holyhead	phpr	prhqbcx	bcc	cpr	47	41	40	Tr.	9.00	1	24.00	2.4
Liverpool (Bidston) ...	cprh	q.p.bc	bcbw	bwbc	44	40	34	0.3	<8.00	-	-	0.7
Chester (Sealand) ...	cpr.rhq	cpr.pRq	bcq	bc	46	35	29	2	<8.00	-	-	1.4
Harrogate	b	b	b	bx	42	34	30	-	-	-	-	6.0
Spurn Head	bc	bc	cpr.bc	bcc	44	38	•	-	-	Tr.	22.00	3.6
Birmingham (Edgbaston)	cprs bc	cpr bc	bcb	bxbc	42	35	30	5	<8.00	-	-	2.2
Cranwell	cbcc	bcbm.	bm.	b	43	33	30	-	-	-	-	1.7
Gorleston	cbcc	oihrq	cirbcq	bcoirq	43	37	35	4	12.30	6	<21.00	0.7
Valentia (Cahirciveen)	bccph	bccp.	bcp.	cbc	49	45	39	1	<8.00	Tr.	<21.00	2.4
Roches Point	cbcpbc	bcp.bc	bcb	bbc	46	40	•	0.3	<8.00	-	-	•
Pembroke (St. Ann's H.)	bc	bcPhq	bcq	bc	49	39	•	Tr.	16.30	-	-	4.2
Ross-on-Wye	pbcbbcq	bcp.cb	bcb	bx	44	35	24	0.1	<8.00	-	-	5.5
Leafield	bcp.ir.	bcp.Pbc	bcpb	bbc	41	33	28	1	9.00	0.1	<21.00	1.7
Winchester (Worthy Dn.)	bbcc	cprcbc	bcb	bx	45	32	26	0.1	13.30	-	-	3.4
S. Farnborough ...	bp.c	cbcp.	bcb	bx	45	32	22	Tr.	9.00	-	-	3.8
London (Kew Obsy.) ...	bcp.c	cp.	bw	bx	45	36	30	Tr.	9.00	-	-	0.9
Croydon	bccpr3.	cz3.pr.	bbcxm.	bcm.bx	43	33	27	Tr.	11.00	-	-	1.1
Shoeburyness	c	cbcb	b	b	45	34	33	-	-	-	-	1.7
Clacton-on-Sea ...	bcco	pcb3	bcz	bcz	43	35	31	-	-	-	-	1.9
Felixstowe	bcpr.	bc3.c	cz.bc	bbc	44	36	32	Tr.	11.00	-	-	3.0
Lympne	bcc3.	c3bc3.bm	bm.	bm.b	43	33	30	-	-	-	-	1.8
Scilly (St. Mary's) ...	bc	bcp	bcP	bc	49	44	•	Tr.	16.30	0.2	24.00	5.0
Falmouth (Pendennis)	cbcprq	bcPHq	bcPHq	bc	48	44	•	2	11.00	Tr.	<21.00	3.6
Plymouth (Cattewater)	cqbcprv	bccqprhc	pRHqb	b,cpr	49	42	38	1	9.00	1	<21.00	5.0
Portland Bill	bc	bcq p	bcbbc	bbc	49	43	•	1	15.30	-	-	•
Southampton (Calshot)	bbcq	bccprhq	bcb	bw	46	33	33	0.6	15.30	-	-	6.1
Dungeness	bc	bcb3	bzbzw	b,m.bc	44	33	•	-	-	-	-	•
Guernsey	bcq	bcq	bcrrbcirbcq	bcqv	48	42	•	-	-	2	<21.00	5.4



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	10h 27th	Hibernia	NW'W	7	C	44	53	8
1	12h "	St. Helier	NW'N	8	C	49	56	7

GENERAL INFERENCE.

A ridge of high pressure off Western Ireland is moving slowly eastward. Cold weather with considerable bright periods but occasional showers is likely generally and frost tonight will be widespread, being severe in many places in England.

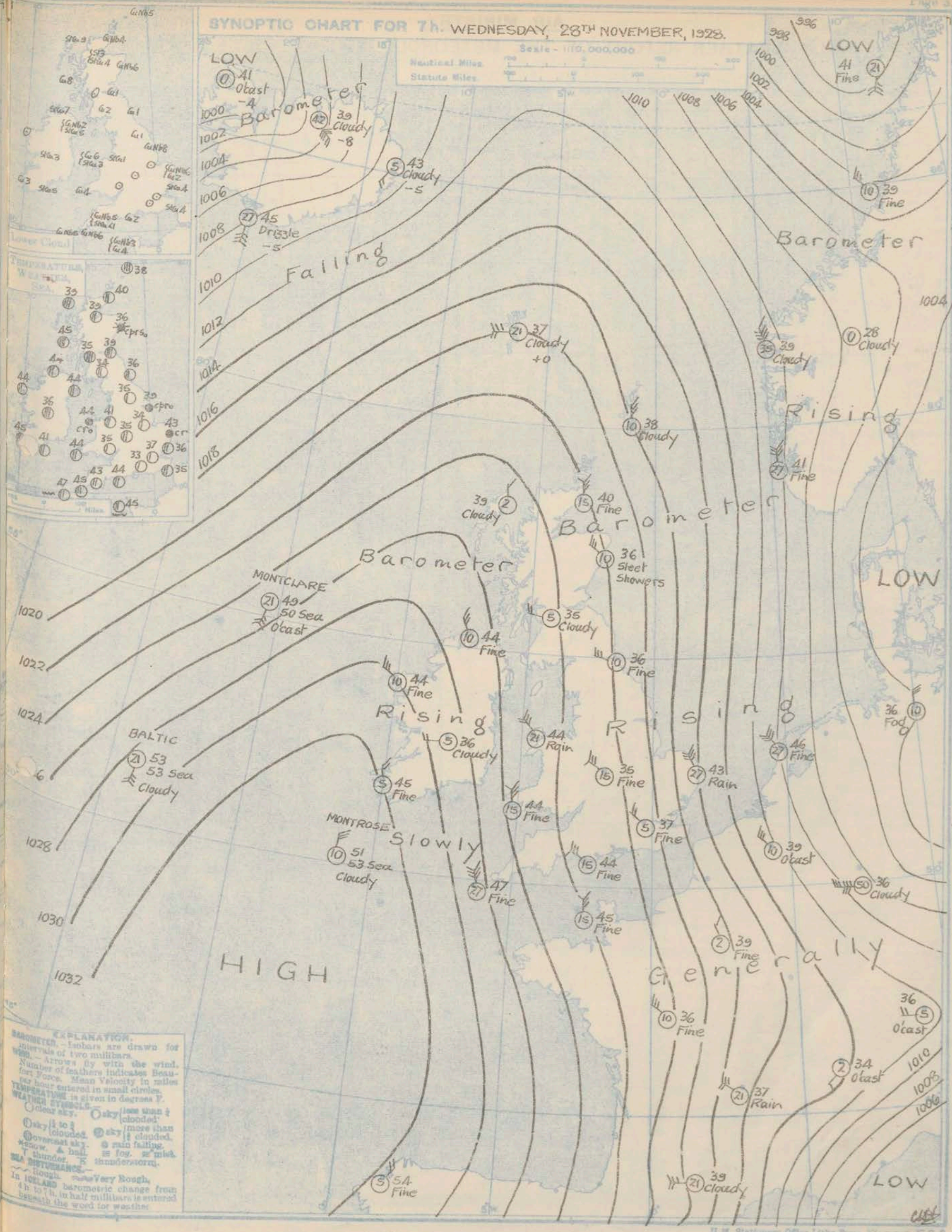
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 28th November, 1928	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Fresh northerly winds, slowly moderating; considerable bright periods, occasional showers; cold; sharp ground frost at night.	Becoming unsettled and milder in western districts.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate northerly winds falling light variable then becoming southerly and freshening; considerable bright periods; occasional showers; cold; sharp ground frost at night.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland 14. Mid-Scotland	Moderate northerly winds becoming moderate to fresh southerly; considerable bright periods with occasional showers today becoming cloudy tomorrow; cold today, with some frost inland tonight, milder tomorrow.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate northerly winds, backing; bright periods but some wintry showers; cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 12 - 14.	

WSH.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0900 G.M.T. G. C. SIMPSON, F.R.S., Director.

[For code see page]

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


SYNOPTIC CHART FOR 7h. WEDNESDAY, 28TH NOVEMBER, 1928.
Scale - 1/10,000,000
Nautical Miles
Statute Miles
LOW
41 O'cast -4
Barometer
39 Cloudy -8
43 Cloudy -5
45 Drizzle -5
Falling
LOW
41 Fine
39 Fine
Barometer
28 Cloudy
39 Cloudy
Rising
41 Fine
37 Cloudy +0
38 Cloudy
39 Cloudy
40 Fine
Barometer
36 Sleet Showers
Barometer
MONTCLARE
49 50 Sea O'cast
35 Cloudy
44 Fine
36 Fine
44 Fine
Rising
Rising
36 Fog
36 Cloudy
44 Rain
46 Fine
BALTIC
53 53 Sea Cloudy
36 Fine
43 Rain
45 Fine
44 Fine
MONTROSE
51 53 Sea Cloudy
Slowly
37 Fine
39 O'cast
44 Fine
36 Cloudy
47 Fine
45 Fine
39 Fine
Generally
HIGH
36 Fine
36 O'cast
34 O'cast
37 Rain
39 Cloudy
54 Fine
LOW
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1028
1030
1032
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 ¾ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.
Rough. Very Rough.
In ICELAND barometric change from 4 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. Wednesday, 28th November, 1928. No. 333.

Observations at 1h. G.M.T. 28th

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	Upper Form	Total Amt. 0-10
Lerwick	64	1014·0	+9	N	3	c	39	75	8	1500	StCu	8	-	8
Stornoway	30	1022·5	+5	N	4	bc-	*	*	8	*	*	*	*	4
Wick	81	1017·8	+8	N	4	c/PH	37	85	8	1500	CuNb	5	CSt	8
Tiree	33	*	*	*	*	*	*	*	*	*	*	*	*	*
[illegible]rn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1029·7	+3	N	6	bcW	43	97	8	4000	CuNb	2	CSt	6
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1018·3	+6	WNW	3	b	38	65	8	-	-	0	ACu	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1016·7	+5	NW	3	bc	37	65	7	1500	Cu	4	-	4
Blacksod Point	18	1027·9	+2	NW	4	bc	45	65	7	*	CuNb	6	-	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	175	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	30	1021·2	+5	NW'N	6	c/pr	45	85	8	2500	StCu	9	-	9
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1013·5	+2	NW'W	7	bc	39	85	7	4000	Cu	6	-	6
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1016·2	+6	NW	5	b	35	85	6	-	-	0	ACu	1
Gorleston	14	1010·9	+2	WNW	3	bc-	39	97	6	4000	Cu	4	-	4
Valentia (Cahirciveen) ₱	30	1031·6	+3	NW	3	o/PR+	46	97	8	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1022·6	+4	N	4	bc	45	85	8	1500	Cu	4	-	4
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	38	*	*	*	*	*	*	*
Croydon	244	1017·2	+5	NW'N	2	bc	35	93	6	-	-	0	Ci	3
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1019·3	+5	NW W	5	b	35	85	6	-	-	0	-	0
Scilly (St. Mary's)	163	1025·3	+4	NNW	7	bc	46	75	8	4000	Cu	5	-	5
Falmouth (Pendennis)	200	1022·6	+5	N	5	bc	46	65	8	4000	Cu	5	-	5
Plymouth (Cattewater)	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1019·2	+4	NW	5	b-	44	65	8	2500	StCu	1	-	1
Southampton (Calshot)	10	1019·2	+5	NNW	5	b	41	85	7	-	-	0	-	0
Dungeness	20	1014·5	+7	NNW	2	b	36	92	7	-	-	0	-	0
Guernsey (Fort George) ₱	295	1019·2	+4	NNW	5	c	45	75	8	1500	StCu	8	-	8

Observations at 7h. G.M.T. 28th

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	Sea 0-9
Lerwick	1018·0	+4	N	3	cjp	38	85	8	1500	CuNb	5	ASt	8	*
Stornoway	1025·6	+3	N	1	c	39	85	7	4000	StCu	9	-	9	1
Wick	1021·6	+5	N	4	bc	40	75	8	1500	CuNb	4	-	4	1
Tiree	1026·7	+2	N'W	5	c	45	65	8	1500	Cu	8	-	8	4
[illegible]rn	1024·3	*	WNW	1	bc+	39	85	8	1500	StCu	7	-	7	*
Aberdeen	1022·0	+5	NW	3	c/pr	36	92	7	1500	CuNb	6	ACu	8	0
Malin Head	1027·3	+3	NNW	3	bc	44	85	8	5700	StCu	7	-	7	4
Renfrew	1025·6	+6	WNW	2	c	36	85	8			0	CiCu	9	*
Edinburgh (Inchkeith)	1023·[illegible]	+6	WNW	3	c[illegible]	39	65	9	4000	Cu	2	Ci	8	1
Leuchars	1021·4	+7	WNW	3	c⊕	37	75	8	4000	StCu	4	CiSt	9	*
Eskdalemuir	1023·7	+5	NNW	5	bc⊕	34	65	8	2500	Cu	2	ASt	4	*
Tynemouth	1021·7	+4	WNW	3	bc	36	75	7	1500	Cu	3	Ci	4	4
Blacksod Point	1028·9	+1	NW	3	bc+	44	75	8	*	-	0	ACu	7	5
Donaghadee	1025·9	+5	N	4	bc-	44	65	8	2500	StCu	7	-	7	4
Birr Castle	1029·7	*	W	2	c+	36	92	7	4000	StCu	3	CiCu	9	*
Holyhead	1024·7	+3	NW'N	5	cf	44	85	8	2500	Cu	9	-	9	4
Liverpool (Bidston)	1024·2	+3	N	4	bc	41	75	8	4000	StCu	1	Ci	5	*
Chester (Sealand)	1023·4	+4	NNW	3	bc	36	85	7	2500	Cu	4	-	4	*
Harrogate	1022·3	+2	W	4	b	35	75	8	4000	Cu	1	CiSt	2	*
Spurn Head	1018·2	+4	NW	6	c/pr	39	85	7	4000	CuNb	8	-	8	5
Birmingham (Edgbaston)	1023·5	+3	NW	4	bc	35	65	5	-	-	0	Ci	5	*
Cranwell	1020·7	+4	NW	5	b	34	85	7	-	-	0	ACu	2	*
Gorleston	1015·3	+4	NNW	6	cr	43	85	6	1500	CuNb	8	-	8	4
Valentia (Cahirciveen) ₱	1032·0	+2	N	2	bc	45	85	8	2500	Cu	3	-	3	3
Roches Point	1030·7	+3	NW	3	bc	41	92	8	4000	StCu	5	-	5	1
Pembroke (St. Ann's H.)	1025·0	+3	N	4	bc	44	92	8	2500	Cu	4	Ci	5	4
Ross-on-Wye	1023·7	+3	W	1	b+	35	85	8	-	-	0	Ci	2	*
Leafield	1022·3	+3	NW'N	4	bc⊕	33	85	8	-	-	0	CiSt	4	*
Winchester (Worthy Dn.)	1022·7	+3	W	3	bc	33	92	8	-	-	0	Ci	3	*
S. Farnborough	1022·2	+5	NNW	2	b	33	85	7	-	-	0	Ci	1	*
London (Kew Obsy.)	1021·6	+4	NW	2	b	37	65	6	-	-	0	ACu	1	*
Croydon	1021·1	+4	NW'W	3	b+	33	85	6	-	-	0	ASt	2	*
Shoeburyness	1019·1	+3	NNW	3	b	36	92	8	-	-	0	ACu	1	*
Clacton-on-Sea	1017·3	+3	NW	4	bc	36	75	7	5700	StCu	4	-	4	2
Felixstowe	1017·6	+4	NW	5	bc	37	85	8	2500	StCu	4	-	4	3
Lympne	1017·9	+2	WNW	5	b+	34	75	7	2500	StCu	1	-	1	*
Scilly (St. Mary's)	1028·1	+1	N'W	6	bc	47	75	7	4000	CuNb	5	-	5	6
Falmouth (Pendennis)	1026·1	+3	N	4	bc+	45	65	8	4000	CuNb	6	-	6	1
Plymouth (Cattewater)	1025·3	+3	NNW	4	bc/r	43	91	7	2500	CuNb	5	-	5	0
Portland Bill	1022·7	+3	NW	4	bc-	44	65	8	2500	Cu	2	CiSt	5	1
Southampton (Calshot)	1022·7	+5	NW	4	b	37	85	7	-	-	0	-	0	0
Dungeness	1018·2	+4	NW	2	bc+	35	91	6	4000	StCu	4	-	4	2
Guernsey (Fort George) ₱	1024·3	+4	N	4	bcv	45	65	9	2500	Cu	7	-	7	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 27th November

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h.28th to 9h.27th (4) °F.	Temperature Max. 9h.-17h. 27th (5) °F.	Rainfall Night 17h.-9h. 26th-27th (6) mm.	Rainfall Day 9h.-17h. 27th (7) mm.	Sunshine Sunrise to Sunset 27th (8) hr.
Berwick-on-Tweed	bc	bc	36	43	-	-	6·4
Douglas (I. o. M.)	cqrh	cqrh	37	44	10	6	1·4
Llandudno	cp	r₀p cp	43	46	3	2	0·3
Colwyn Bay	cop o	cp o	42	45	3	3	0·2
Rhyl	prc	pc	39	46	8	3	0·2
Wallasey	RH bc	RcP	39	44	7	2	0·5
Southport	coHch	cbob	40	45	3	0·5	1·2
Blackpool	orc	coc	40	45	6	0·2	2·0
Ilkley	bc	bcb	36	45	1	-	3·3
Cleethorpes	coc	b	37	44	-	-	3·4
Skegness	bcwcbc	cb	35	45	Trace	-	4·6
Aberystwyth	phbcc	prh	44	46	1	1	2·1
Bath	bcb	bcp cb	40	46	1	Trace	3·5
Cheltenham‡	bcc	cp opc	38	45	-	0·3	1·5
Leamington Spa	c	co	36	43	5	Trace	1·6
Lowestoft	c bc	bccrc	39	44	-	3	1·2
Harwich & Dovercourt	bc	bc	38	43	-	-	2·9
Maldon	bbc	c	36	44	1	-	2·0
Southend	c	bcb	39	44	0·2	-	1·1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	qcbc	bcphr	44	48	1	Trace	4·1
Penzance	cb	b	42	51	5		3·1
Paignton	b	bcp₀b	43	49	2	Trace	6·6
Torquay	rpb (bcpc)	bcp₀b	43	50	2	0·2	6·2
Jersey	bc	[illegible]	44	50	3	0·2	5·0
Weymouth	b	bp₀cb	41	49	0·3	0·1	6·6
Bournemouth	b	b	41	46	-	-	6·6
Ventnor	b	bpcu	40	46	-	Trace	6·3
Portsmouth (S'thsea)	bc	bcp	41	47	1	0·2	5·1
Bognor	bbcc	bcrsc	39	47	-	1	3·1
Littlehampton	bc	bcc	39	48	-	-	3·4
Worthing	bcc	cbc	39	45	Trace	-	1·8
Brighton	c	c	40	45	-	-	1·8
Eastbourne‡	bcc	cbc	39	45	-	-	2·6
Hastings‡	bbcc	coc	38	45	-	-	3·9
Folkestone	cbcz₀	bcz₀	37	44	-	-	1·6
Dover	qbcc	qcb	40	44	-	-	1·5
Tunbridge Wells	co	bcc	36	43	-	-	1·5
Ramsgate	cbc	bc	38	44	0·6	-	1·3
Margate	bcc	c	39	45	Trace	-	0·1
Deal	cy	bccc	39	49	-	-	1·6

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. and at Guernsey, the sunshine readings are 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. or 17h.-9h.

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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24479 Thursday 29th November 1928. Page 1.

Observations at 13h. G.M.T. 28th

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1021.4	-1	NW	2	c	41	65	8	1500	Cu	5	ASt	9	•
Stornoway	1025.3	-1	-	0	c+	41	85	7	4000	StCu	8	-	8	•
Wick	1024.6	+2	SW	2	c	40	75	8	1500	CuNb	6	ASt	8	•
Tiree	1027.5	0	W'S	2	bcv	48	65	9	2500	Cu	3	ACu	6	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1025.4	+3	WNW	5	bc	40	75	7	2500	CuNb	1	CiSt	3	2
Malin Head	1029.2	+1	WSW	3	bc	46	85	8	4000	Cu	5	ACu	6	•
Renfrew	1027.6	+2	WSW	3	c	42	75	6	-	-	0	CiSt	9	2
Edinburgh (Inchkeith)	1026.5	+3	WNW	3	c	41	55	8	2500	St	2	CiCu	9	•
Leuchars	1026.6	+3	WNW	3	c+	41	65	8	5700	StCu	1	Ci	8	1
Eskdalemuir	1026.9	+1	NNW	4	bc	38	55	7	-	-	0	Ci	7	2
Tynemouth	1025.0	+2	WNW	3	bc	42	65	7	1500	Cu	3	Ci	4	•
Blacksod Point	1029.7	0	-	0	bc	49	75	8	•	StCu	7	-	7	•
Donaghadee	1028.3	+1	N	4	bc+	45	65	8	4000	StCu	7	-	7	•
Birr Castle	1031.3	•	S	2	bc-	45	85	7	4000	StCu	2	Ci	5	•
Holyhead	1027.8	+1	N	5	bcv	46	75	9	2500	StCu	5	Ci	7	1
Liverpool (Bidston)	1027.7	+2	NNW	4	cv+	43	55	9	4000	StCu	1	Ci	8	•
Chester (Sealand)	1026.7	+2	N'W	4	bc+	44	65	7	2500	Cu	2	Ci	7	1
Harrogate	1025.4	+1	NW	4	b	41	55	8	-	-	0	CiSt	2	•
Spurn Head	1022.2	+2	NNW	7	c/PR	40	55	6	2500	Nb	7	ASt	9	•
Birmingham (Edgbaston)	1026.5	+2	NNW	4	b	40	55	5	-	-	0	-	0	2
Cranwell	1023.9	+2	NNW	4	bc	40	75	8	4000	StCu	1	Ci	6	0
Gorleston	1018.9	+3	NNW	5	bc	45	85	6	1500	CuNb	6	-	6	•
Valentia (Cahirciveen)	1032.5	-1	-	0	c	50	75	8	4000	StCu	10	-	10	1
Roches Point	1031.8	+3	N	3	bc	46	85	8	4000	StCu	5	-	5	•
Pembroke (St. Ann's H.)	1028.6	+6	N'E	3	c+	46	85	8	1500	Cu	7	CiSt	8	•
Ross-on-Wye	1026.7	+2	N	3	bc-	42	65	8	4000	Cu	1	Ci	5	2
Leafield	1025.6	+2	NW'N	4	b	39	65	6	-	-	0	CiSt	1	2
Winchester (Worthy Dn.)	1024.8	+1	NNW	4	bc	42	65	8	-	-	0	Ci	3	1
S. Farnborough	1024.4	+1	NW	3	bc-	42	65	7	2500	StCu	1	Ci	3	0
London (Kew Obsy.)	1024.5	+2	NNW	3	bc+	41	65	7	-	-	0	ACu	6	1
Croydon	1024.6	+1	N'W	3	c-	41	65	5	4000	StCu	9	-	9	1
Shoeburyness	1022.4	+2	N	5	b	42	85	8	-	-	0	ACu	1	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1020.5	+2	NNW	5	bc	42	75	8	4000	StCu	5	-	5	1
Lympne	1021.0	+2	NW	6	bc+	40	75	6	4000	Cu	1	ACu	6	0
Scilly (St. Mary's)	1030.5	+3	N'W	5	bc	47	75	8	4000	CuNb	7	-	7	•
Falmouth (Pendennis)	1028.2	0	N'W	4	bc	47	65	8	4000	Cu	4	CiCu	6	•
Plymouth (Cattewater)	1028.3	+1	N	3	cr₀	45	85	8	1500	CuNb	9	Ci	9	2
Portland Bill	1025.9	+3	NW	4	c	45	65	8	2500	Cu	3	CiSt	9	•
Southampton (Calshot)	1025.4	+1	NNW	4	bc+	43	66	6	-	-	0	ACu	6	0
Dungeness	1021.7	+3	NNW	4	bc+	43	65	7	4000	Cu	3	ACu	6	•
Guernsey (Fort George)	1026.6	+1	NNW	4	bcv-	45	65	9	2500	Cu	3	ACu	5	•

Observations at 18h. G.M.T. 28th

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1020.5	-1	W'S	1	c	42	75	8	1500	StCu	4	ASt	8	•
Stornoway	1022.8	-4	-	0	o	43	92	6	2500	St	10	-	10	0
Wick	1024.3	0	SW	2	c	38	75	8	2500	StCu	4	ASt	10	0
Tiree	1026.3	0	SW'W	3	od₀	44	92	8	800	Nb	10	-	10	1
Nairn	1025.6	•	WNW	2	c+	39	75	8	2500	StCu	8	-	8	•
Aberdeen	1024.6	+1	-	0	c+	37	86	6	-	-	0	ACu	9	0
Malin Head	1028.2	-1	SW	3	c	46	97	7	5700	StCu	6	ACu	9	2
Renfrew	1028.5	-1	WNW	1	bcw	37	85	6	-	-	0	CiSt	6	•
Edinburgh (Inchkeith)	1026.4	0	SW	2	bc	39	75	5	800	St	3	ACu	4	1
Leuchars	1027.6	0	WSW	2	c	34	85	8	-	-	0	ACu	9	
Eskdalemuir	1029.1	+1	-	0	bc	31	76	7	-	-	0	CiSt	7	•
Tynemouth	1027.5	+2	NW	3	bc	38	75	7	1500	St	4	ACu	7	4
Blacksod Point	1029.1	-1	S	2	c/d	49	97	7	•	-	0	ASt	10	5
Donaghadee	1028.9	+1	WSW	1	ifc	41	85	3	4000	StCu	8	-	8	2
Birr Castle	1031.3	•	SW	1	c+	43	92	7	-	-	0	ASt	10	•
Holyhead	1029.9	+2	N	3	bc	45	75	8	4000	St	5	CiSt	7	1
Liverpool (Bidston)	1030.0	+2	N	3	c	41	65	7	-	-	0	Ci	8	•
Chester (Sealand)	1028.8	+3	NNW	2	bc	35	85		-	-	0	Ci	5	•
Harrogate	1028.2	+2	W'N	2	b	36	76	7	-	-	0	CiSt	2	•
Spurn Head	1024.4	+2	NW	6	c/PR	41	92	7	4000	CuNb	7	ASt	9	6
Birmingham (Edgbaston)	1029.1	+3	NW	3	bcw	38	65	5	-	-	0	CiSt	7	•
Cranwell	1027.0	+3	NW'N	4	bc+	37	92	7	4000	StCu	5	ACu	7	•
Gorleston	1023.2	+3	N'W	5	cr	40	92	7	800	CuNb	8	-	8	4
Valentia (Cahirciveen)	1032.5	+1	W'N	3	c	49	85	8	1500	St	10	-	10	3
Roches Point	1032.1	+1	NW	1	cr₀	47	85	8	1500	Nb	9	-	9	0
Pembroke (St. Ann's H.)	1029.7	+3	N'E	3	bc	44	92	8	2500	Cu	4	CiSt	7	2
Ross-on-Wye	1029.1	+3	N'E	1	bcw	37	75	8	-	-	0	CiSt	5	•
Leafield	1028.4	+3	NW'N	3	bc	34	75	6	-	-	0	CiSt	4	•
Winchester (Worthy Dn.)	1028.6	+3	NNW	3	bcw	35	76	6	-	-	0	Ci	4	•
S. Farnborough	1027.2	+4	NW	1	b	36	75	5	-	-	0	-	0	•
London (Kew Obsy.)	1027.3	+2	NNW	3	b	37	75	6	-	-	0	-	0	•
Croydon	1026.5	+4	NNW	3	mmbc	37	75	4	4000	StCu	3	ACu	6	•
Shoeburyness	1025.3	+3	NNW	4	bc+	39	92	7	-	-	0	ACu	4	•
Clacton-on-Sea	1024.6	+4	NW	4	bc	39	85	7	7200	StCu	6	-	5	2
Felixstowe	1023.3	+4	NW'N	4	b	39	92	7	4000	Cu	1	ACu	2	4
Lympne	1024.5	+4	NNW	4	b	36	85	6	-	-	0	Ci	1	•
Scilly (St. Mary's)	1032.1	+3	N'W	5	bcv	46	75	9	4000	Cu	5	-	5	5
Falmouth (Pendennis)	1031.0	+3	NNW	3	bcpr₀	45	85	8	4000	CuNb	7	-	7	1
Plymouth (Cattewater)	1030.4	+4	N	1	b-	43	92	7	2500	CuNb	<1	Ci	1	0
Portland Bill	1028.1	+3	NNW	4	bc-	42	65	8	2500	StCu	3	CiSt	7	1
Southampton (Calshot)	1028.1	+3	NW'N	4	bc+	38	75	6	-	-	0	Ci	4	0
Dungeness	1024.1	+3	N	3	bc-	38	75	7	-	-	0	CiCu	4	3
Guernsey (Fort George)	1029.1	+2	N'W	4	bc	44	65	8	2500	Cu	4	Ci	6	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.	Min. Night °F.	Min. on Grass °F.	Rainfall† mm. Day	Rainfall Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bxbc	bm₀w	cm₀x₀	43	34	29	-	-	3.2	•	•	•
Croydon	244	bcj₀	cbj₀3	bcm₀x	42	32	27	-	-	1.2	•	•	5
Greenwich (Royal Obsy.)	149	bc	cb	bc m	42	33	26	-	Tr	0.2	65	76	•
City (Bunhill Row)	39	•	•	•	•	•	•	•	•	0.2	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	44	34	29	-	-	0.8	59	70	•
Regent's Pk. (Botanic Gdns.)	163	•	•	•	•	•	•	•	•	1.1	•	•	•
Camden Square	110	bc	cb	•	41	36	•	-	-	•	•	80	•
Kensington Palace	80	bcj	bcj	•	42	34	28	-	-	•	(At 18h) 72	71	•
Hampstead Observatory	450	•	•	•	40	30	23	-	Tr	3.3	•	87	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 29th

South Kensington			
Max.	Time.	Min.	Time.
0.8	18h 28th	0.3	24h on 28th

Kew Observatory			
Max.	Time.	Min.	Time.
0.5	18h 28th	0.2	11h on 28th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 28th 17 h 00 m. to 29th 6 h 30 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13 30	10 08	75
δ Ursae Minoris	13 30	8 51	66

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.

29th-30th November, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.41 / 7.42	11.41 / 11.42	15.42 / 15.41
Greenwich	7.42 / 7.44	11.49 / 11.49	15.54 / 15.53
Wick	8.34 / 8.36	12.1 / 12.1	15.27 / 15.26
Valentia	8.25 / 8.27	12.29 / 12.30	16.33 / 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 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 33 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.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

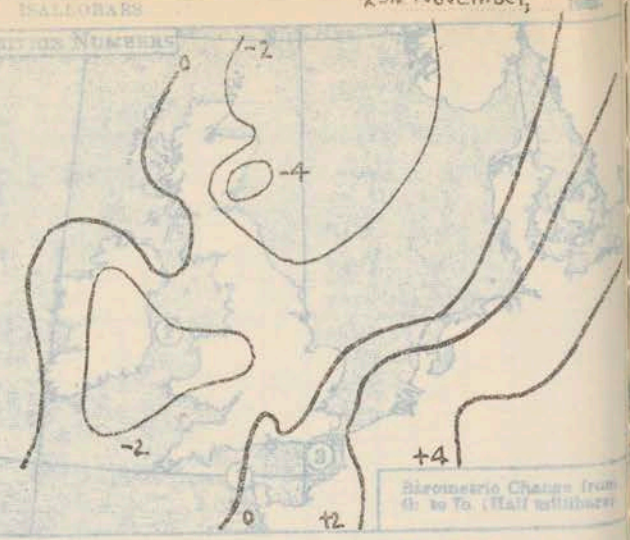
† Trace = rain has fallen, but amount less than 0·1 mm. • Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 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	c	c	o m r r	o r r m₀	42	(38)	40	-	-	4	<21·00	0·0
Stornoway	c	o	c	p	43	43	•	-	-	0·2	02·30	0·7
Wick	c	c	c	c o i r₀	42	38	•	-	-	(0·1)	04·30	•
Tiree	bc	bccp₀	d₀d₀	d₀d₀m	48	43	43	Tr.	17.30	1	<21·00	1·7
Nairn	bc	bcc	c d q	c p r q	39	39	•	-	-	1	24·00	1·5
Aberdeen	cp₀bcp₀rbc	bcc3₀	g3₀	g o i r₀ 3	40	36	31	0.1	<8·00	0·1	01·30	0·9
Malin Head	bc	bcce	c c o d₀	o d₀ m₀	47	43	•	-	-	1	22·00	1·5
Renfrew	cbcc3₀	cbc3₀	bcom	o d₀ d₀ m	42	34	29	-	-	0·3	01·30	2·5
Edinburgh (Inchkeith)	c	cbcm₀	c m₀ i r₀	c p r o	42	38	35	-	-	1	22·00	2·5
Leuchars	cxc, bc	c	c bc	b c c r₀	41	32	27	-	-	0·2	05·30	2·4
Eskdalemuir	bcxcbcy	bcx	bcxcir₀	c o r₀	39	27	23	-	-	2	24·00	2·0
Tynemouth	bc	bc	bc c	c	42	36	31	-	-	-	-	•
Blacksod Point ...	c	d₀o	a f m	d c	49	48	•	0·2	•	4	•	•
Donaghadee	bccbc	bcpif	i d₀ m₀	c i d₀ c	45	40	•	-	-	0·3	22·00	•
Birr Castle	cbc	bbc	o r₀ r₀	o f f e	46	42	41	-	-	2	<21·00	2·8
Holyhead	pr bc	bcv	c m₀ c	c d₀ d₀	48	42	41	Tr.	<8·00	0·2	05·30	2·9
Liverpool (Bidston) ...	bccvy	vycbc	c c w	c o m₀	43	39	28	-	-	0·2	06·30	5·1
Chester (Sealand) ...	bcc	bbc	bc x	bc c	44	30	23	-	-	Tr.	06·30	4·6
Harrogate	b	b	b b c c	b c c	41	34	30	-	-	-	-	4·5
Spurn Head	cpr ps	cprq	cprcbc	bccq	41	37	•	3	<8·00	1	<21·00	1·3
Birmingham (Edgbaston)	bcb	bcbbc	bc	b c c	40	33	27	-	-	-	-	3·6
Cranwell	bcc	c	c m₀	c q₀	41	32	29	-	-	-	-	4·2
Gorleston	crbcq	bccirq	rcbcq	b c c	47	37	36	3	<8.00	0·4	<21·00	3·2
Valentia (Cahirciveen)	bcco	pcp₀c	c o d₀ d	o d r₀ r₀	51	48	46	0.1	14.30	4	<21·00	0·1
Roches Point	bc	bccir₀	c i r₀	c i r₀ c	47	46	•	0.1	17.30	1	<21·00	•
Pembroke (St. Ann's H.)	bcp₀	bccbc	bc	b c c d₀ d	48	44	•	Tr.	<8.00	0·5	03·30	2·0
Ross-on-Wye	bcc	bc	b c c b b	b c c	42	31	24	-	-	-	-	3·2
Leafield	bcb	bbc	bc	b c c	39	30	24	-	-	-	-	5·5
Winchester (Worthy Dn.)	bxbc	bcm₀	b c c m₀	c m₀	42	29	23	-	-	-	-	6·3
S. Farnborough ...	bxbc	bcbm₀	b m₀ c	c	43	31	26	-	-	-	-	6·1
London (Kew Obsy.) ...	bxbc	bm₀w	c m₀ x₀	c m₀ x₀	43	34	29	-	-	-	-	3·2
Croydon	bxc3₀	cb3₀3	b c c m₀ m₀	c m₀ x	42	32	27	-	-	-	-	1·2
Shoeburyness	b	bbc	bc	o m₀	42	33	32	-	-	-	-	6·1
Clacton-on-Sea ...	bc	bc	bc	b c c	41	34	32	-	-	-	-	6·0
Felixstowe	bbc	bcprb	b	b c c	42	35	34	Tr.	14.30	-	-	5·7
Lympne	bbc3₀	bc3₀bm₀	b b c c m₀	c m₀	41	32	30	-	-	-	-	6·6
Scilly (St. Mary's) ...	bc	bc	b c c	c i d₀	48	45	•	-	-	Tr.	03·30	3·2
Falmouth (Pendennis)	bcp₀	bcpr	b c p r	c	48	43	•	0.6	<8.00	Tr.	<21·00	4·3
Plymouth (Cattewater)	bcprc	cprb	b	b x c r₀	47	38	32	1	<8.00	0·1	05·30	1·0
Portland Bill	bcc	c	b c c	c	46	39	•	-	-	-	-	•
Southampton (Calshot)	bcm₀	bcbbcm	b c m, b m₀	c c m₀	44	35	32	-	-	-	-	6·1
Dungeness	bc	bc	b c b c	c c 3₀	43	33	•	-	-	-	-	•
Guernsey	bcv	bc	bc	b c c	47	41	•	-	-	-	-	3·9

29th November



Barometric Change from 6h. 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	28th 10h	Hibernia	NNW	7	C	46	53	8
3	29th 2h	Dieppe	N	6	C	48	53	6

GENERAL INFERENCE.

An anticyclone is centred near the Bay of Biscay and a chain of depressions is moving east-northeastward between Greenland and Iceland. Winds will be generally westerly to southwestern over the British Isles and conditions cloudy and milder with occasional rain in most districts.

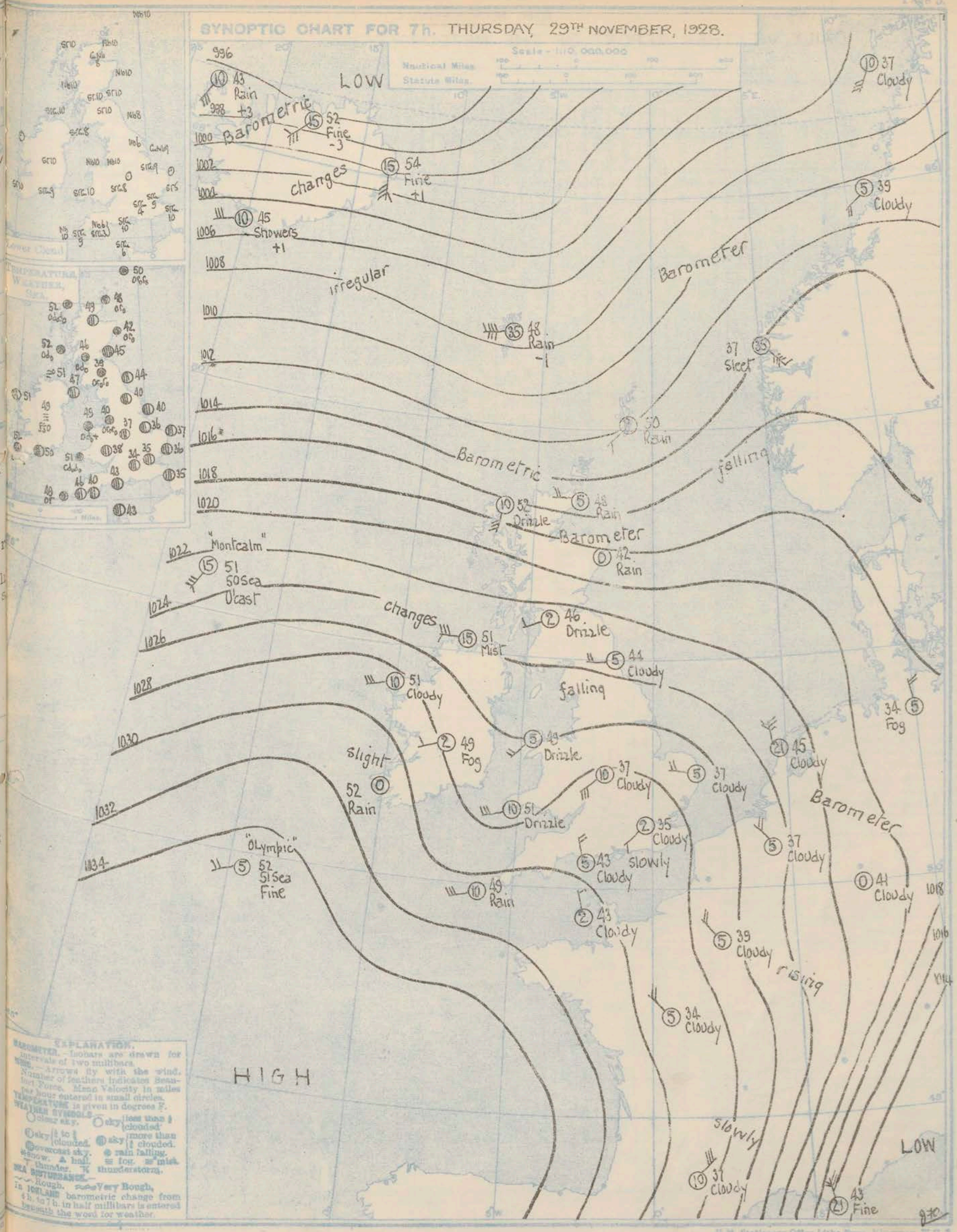
Thursday, 29th November, 1928.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light or moderate westerly or southwesterly winds; cloudy, occasional rain; mild.	Cloudy, occasional rain; mild.
5. S.W. England 6. South Wales	Light or moderate westerly to southwesterly winds; cloudy, occasional rain; mild; some mist or fog at night and in early morning.	
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	As 1 - 4.	
13. (A. W. Scotland (B. NW. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Moderate or fresh westerly to southwesterly winds; cloudy, some rain; mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate westerly winds backing to southwesterly and freshening somewhat; cloudy, some rain; mild; some mist or fog at night and in early morning.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0910 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page 1

Trace = rain has fallen, but amount less than 0·1 mm.


SYNOPTIC CHART FOR 7h. THURSDAY, 29TH NOVEMBER, 1928.
LOW
Barometric changes
irregular
Barometer
Barometric
falling
Barometer
"Montcalm"
changes
falling
slight
Barometer
"Olympic"
slowly
rising
HIGH
slowly
LOW
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 ¾ clouded. sky more than ¾ clouded. Overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE
Rough. Very Rough.
In IRELAND barometric change from 4 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. Thursday, 29th November, 1928. No. 334.

Observations at 1h. G.M.T. 29th

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	1015·8	-3	SW	1	obb₀	45	97	7	1500	Nb	10	-	10
Stornoway	80	1019·4	-2	W	5	c	*	*	6	*	*	*	*	10
Wick	81	1019·5	-3	SW	3	c	41	85	8	1500	ScCu	6	CiSt	8
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1024·7	-2	WSW	4	mo	49	97	4	800	St	10	-	10
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1024·7	-3	SW	3	c	41	85	7	1500	St	6	ASt	9
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1026·5	-2	WSW	2	c+	38	75	7	1500	ScCu	9	-	9
Blacksod Point ...	18	1027·4	-0	WSW	4	ifo	51	97	5	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1028·6	-2	SW	1	c	46	85	7	4000	St	9 (10 corrected)	-	9
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1027·1	+0	NW	5	bc-	39	75	6	4000	CuNb	2	ASt	5
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1028·1	+1	WNW	3	c	34	85	6	-	-	0	ACu	9
Gorleston	14	1025·7	+2	N'W	4	bcm	42	85	7	1500	Cu	4	ACu	6
Valentia (Cahirciveen) F	30	1030·5	-1	SW	1	ooo	54	85	5	÷	St	10	-	10
Roches Point	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1030·8	+1	NW	2	c+	47	85	8	2500	Cu	5	ASt	8
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	1028·8	+2	NW'W	2	c	34	85	5	4000	ScCu	3	ACu	8
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1026·8	+2	NW	4	c≡	34	92	6	-	-	0	ASt	8
Scilly (St. Mary's) ...	163	1032·5	o	NW'W	3	c+	47	85	8	4000	ScCu	8	-	8
Falmouth (Pendennis)	209	1031·5	+1	NW	2	c+	45	65	7	4000	Cu	3	ACu	8
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1028·6	+1	NNW	4	c≡	40	65	8	2500	Cu	1	Ci	8
Southampton (Calshot)	10	1030·1	+1	NW'W	4	c+	38	75	7	-	-	0	ACu	9
Dungeness	20	1027·0	+1	NNW	3	c≡	34	92	6	-	-	0	CiSt	10
Guernsey (Fort George) F	295	1030·0	o	NNW	2	bc+	42	75	7	4000	Cu	2	Ci	6

Observations at 7h. 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	1010·6	-3	SW	1	or₀r₀	49 (50 corrected)	97	6	1500	Nb	10	-	10	*
Stornoway	1017·7	0	SSW	3	od₀d₀	52	97	6	1500	St	10	-	10	2
Wick	1015·7	-3	W	2	or₀	48	92	6	1500	Nb	10	-	10	0
Tiree	1021·9	-0	WSW	4	od₀	52	97	4	<150	Nb	10	-	10	1
Nairn	1017·0	*	W	5	c/r	49	92	8	1500	CuNb	8	-	8	*
Aberdeen	1018·7	-2	-	0	or₀	42	85	4	1500	Nb	10	-	10	0
Malin Head	1023·8	-1	W	4	mmo	51	97	4	800	St	10	-	10	3
Renfrew	1022·6	-2	WSW	1	od₀	46	97	7	1500	St	10	-	10	*
Edinburgh (Inchkeith)	1022·7	-1	W	5	o	45	92	7	1500	St	10	-	10	1
Leuchars	1020·5	-4	SW	4	c	44	92	7	2500	Nb	9	ASt	10	*
Eskdalemuir	1022·7	o	S	3	or₀r₀	39	92	7	1500	St	10	-	10	*
Tynemouth	1023·0	-2	W	2	c	44	85	7	1500	Nb	8	-	8	4
Blacksod Point	1028·4	+1	WSW	3	o/r	51	97	7	*	-	0	ASt	10	4
Donaghadee	1024·3	+1	W	1	c-	47	97	7	4000	ScCu	8	-	8	2
Birr Castle	1027·8	*	WSW	1	ffo	49	97	3	450	St	10	-	10	*
Holyhead	1026·0	-2	SW	2	od₀+	49	97	5	800	Nb	10	-	10	0
Liverpool (Bidston)	1026·6	-2	S'W	2	or₀r₀	40	85	6	1500	Nb	10	-	10	*
Chester (Sealand)	1026·1	-2	SE'S	2	or₀	39	92	7	1500	St	10	-	10	*
Harrogate	1025·3	-1	SW	3	c+	40	92	6	2500	Nb	6	CiCu	9	*
Spurn Head	1024·9	-1	W	4	c	40	85	6	2500	CuNb	9	ASt	10	5
Birmingham (Edgbaston)	1028·1	-2	SW	3	c+	37	75	8	-	-	0	ASt	8	*
Cranwell	1028·3	-1	WSW	4	c	36	85	6	4000	ScCu	9	-	9	*
Gorleston	1026·6	+1	W'N	2	c	37	92	6	-	-	0	ASt	10	0
Valentia (Cahirciveen) F	1030·7	0	-	0	or₀r₀	52	97	5	<150	St	10	-	10	4
Roches Point	1028·1	-3	N	2	c	50	97	8	2500	ScCu	9	-	9	0
Pembroke (St. Ann's H.)	1027·4	-2	WSW	3	od₀d₀	51	97	6	800	ScCu	10	-	10	2
Ross-on-Wye	1028·2	-1	WSW	1	c	38	85	6	2500	ScCu	8	CiCu	9	*
Leafield	1028·2	-1	SW	2	c	35	75	8	5700	ScCu	4	ASt	8	*
Winchester (Worthy Dn.)	1029·6	o	WNW	2	c	33	92	7	5700	ScCu	8	-	8	*
S. Farnborough	1028·7	-1	W	2	c	34	75	7	5700	ScCu	4	ACu	10	*
London (Kew Obsy.)	1028·9	-1	SW'W	1	c	35	85	5	2500	ScCu	9	-	9	*
Croydon	1028·8	+0	W'S	2	c+	35	85	5	2500	Sc	8	ASt	10	
Shoeburyness	1028·2	+1	W'N	1	c	35	97	6	5700	ScCu	7	ASt	10	*
Clacton-on-Sea	1027·6	+1	NW	4	c	36	85	6	7200	ScCu	8	-	8	1
Felixstowe	1027·3	+2	WNW	3	c	37	85	5	2500	St	5	ASt	10	1
Lympne	1027·6	+1	NW'W	4	c	33	92	6	4000	ScCu	10	-	10	*
Scilly (St. Mary's)	1031·3	-1	W'N	3	or	49	97	6	4000	Nb	10	-	10	4
Falmouth (Pendennis)	1030·4	-1	-	0	c	46	92	7	4000	ScCu	9	-	9	0
Plymouth (Cattewater)	1030·4	-1	ENE	2	c/r	40	97	7	2500	Nb	9	-	9	0
Portland Bill	1028·4	-1	NNW	2	c	43	65	8	2500	ScCu	10	-	10	1
Southampton (Calshot)	1029·8	0	WNW	3	c	36	85	7	4000	ScCu	5	ACu	9	0
Dungeness	1027·6	+2	NNW	3	c	35	75	6	4000	ScCu	10	-	10	3
Guernsey (Fort George) F	1030·8	o	NNW	1	c+	43	65	8	4000	ScCu	6	ACu	9	1

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28th November

Stations. (1)	Weather. Forenoon. (2)	Weather. Afternoon. (3)	Temperature. Min. 9h. 27th to 9h. 29th (4)	Temperature. Max. 9h.-17h. 28th (5)	Rainfall.† Night 17h.-9h. 27th-28th (6)	Rainfall.† Day 9h.-17h. 28th (7)	Sunshine. Sunrise to Sunset 28th (8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	37	42	-	-	0·6
Douglas (I. o. M.) ...	bc	bc	38	44	-	-	6·1
Llandudno ...	bc	bc	41	46	0·3	-	4·2
Colwyn Bay ...	bbcc	cb	41	46	-	-	4·2
Rhyl	bc	bc	40	46	0·5	-	3·8
Wallasey ...	b	b	39	44	Trace	-	4·2
Southport	bbcb	bbcb	‡38	43	0·1	-	4·1
Blackpool	cbc	bc	39	43	-	-	3·6
Ilkley	b	b	32	43	-	-	4·0
Cleethorpes	csob	cdc	35	41	-	0·3	1·4
Skegness	bcrpr	bcpr	35	41	Trace	Trace	4·4
Aberystwyth ...	cbc	bc	37	44	1	-	6·8
Bath	bcb	bccb	33	43	-	-	3·4
Cheltenham‡ ...	cmz	cm	31	42	-	-	3·0
Leamington Spa ...	c	c	31	42	-	-	4·4
Lowestoft	bcb	bbccr	36	46	6	0·1	4·3
Harwich & Dovercourt	bc	bc	36	47	-	-	5·9
Maldon	b	bc	35	42	-	-	5·0
Southend	b	b	35	43	-	-	5·5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	bcp	bc	44	47	0·4	0·2	3·2
Penzance	b	bc	44	50	1	-	3·1
Paignton	pbc	bcb	40	48	2	-	4·7
Torquay	cbc	bm	40	49	1	-	3·3
Jersey	bc	rbc	43	48	4	Trace	4·3
Weymouth	cb	b	37	46	-	-	4·7
Bournemouth ...	b	b	36	44	-	-	5·5
Ventnor ...	rbz	bzb	36	44	3	-	7·2
Portsmouth (S'thsea)	b	b	36	44	-	-	6·3
Bognor	xbbc	bcb	35	43	-	-	5·8
Littlehampton ...	bc	bcb	37	44	-	-	6·1
Worthing	b	bbc	35	42	-	-	6·0
Brighton	bbcb	bccbc	35	43	-	-	5·2
Eastbourne‡ ...	bbc	bcb	36	43	-	-	5·5
Hastings‡	bbcc	cbcb	36	43	-	-	4·5
Folkestone	bc	bc	35	43	-	-	5·4
Dover	b	bbc	38	42	-	-	5·0
Tunbridge Wells ...	bbc	b	34	42	-	-	5·4
Ramsgate	b	bbc	38	43	-	-	5·6
Margate	bc	bc	39	44	-	-	2·9
Deal	b	bbcc	36	42	-	-	5·6

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* Information not usually received. F The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are 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.24480 FRIDAY, 30th NOVEMBER, 1928.

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1008.3	-2	S'W	3	or.r.	50	97	6	1500	Nb	10	-	10	•
Stornoway	1017.4	-2	W	3	or.r.	51	97	6	1500	Nb	10	-	10	•
Wick	1015.3	-1	W	3	c	53	92	8	1500	StCu	8	ASt	10	•
Tiree	1022.2	0	WNW	4	od₀	51	97	5	220	Nb	10	-	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1016.6	-2	WNW	3	c	56	75	8	4000	StCu	1	ACu	9	2
Malin Head	1024.9	+1	W	5	mo	51	97	4	800	St	10	-	10	•
Renfrew	1021.2	-3	WSW	3	o	52	97	7	800	St	10	-	10	2
Edinburgh (Inchkeith)	1018.7	-4	WSW	4	o	50	97	6	800	St	10	-	10	•
Leuchars	1017.5	-4	SW	3	c	51	92	7	4000	StCu	7	Ci	9	1
Eskdalemuir	1020.8	-3	SW'W	4	fc-	45	97	4	<150	St	10	-	10	2
Tynemouth	1020.2	-3	W	2	bc/r	49	92	7	1500	CuNb	5	ACu	9 7	•
Blacksod Point	1028.7	+1	WSW	3	c	52	92 (corrected from 75)	8	*	StCu	10	-	10	•
Donaghadee	1024.0	-1	W	2	c	52	85	8	4000	StCu	8	-	8	•
Birr Castle	1027.8	•	WSW	1	c-	52	92	6	1500	StCu	9	-	9	•
Holyhead	1024.9	-2	WNW	5	c/d	52	97	7	450	St	3	ASt	9	1
Liverpool (Bidston)	1024.1	-2	WNW	4	odd	49	97	5	2500	St	10	-	10	•
Chester (Sealand)	1023.8	-3	SSE	1	fo	46	97	3	800	St	10	-	10	1
Harrogate	1022.2	-2	WSW	5	c/d	44	97	6	2500	Nb	9	ASt	10	•
Spurn Head	1022.1	-2	WNW	3	o	43	85	5	1500	St	10	-	10	•
Birmingham (Edgbaston)	1025.2	-4	SW	2	cd₀	43	92	5	2500	Nb	2	ASt	10	2
Cranwell	1024.6	-4	WSW	3	cr₀	43	92	6	5700	St	10	-	10	0
Gorleston	1026.1	-2	WSW	2	c	39	92	5	1500	St	10	-	10	•
Valentia (Cahirciveen)	1031.2	-1	W'N	2	ffo	52	97	3	<150	St	10	-	10	2
Roches Point	1029.0	-2	N	3	c	55	92	8	4000	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1026.8	0	W	2	bc-	53	85	7	800	St	5	CiSt	7	•
Ross-on-Wye	1024.6	-3	SW	2	c	46	85	5	2500	St	7	ASt	10	2
Leafield	1026.3	-2	SW	3	cd₀	43	92	6	1500	St	4	ASt	9	1
Winchester (Worthy Dn.)	1027.2	-3	SW	1	c	43	75	6	1500	StCu	10	-	10	1
S. Farnborough	1026.8	-3	WSW	3	o	43	75	7	2500	St	10	-	10	0
London (Kew Obsy.)	1026.5	-4	WSW	1	o	42	75	5	4000	St	10	-	10	1
Croydon	1026.6	-4	W'N	2	c	42	75	5	4000	StCu	8	ASt	10	1
Shoeburyness	1026.8	+2	W	1	fc+	40	97	3	2500	StCu	10	-	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1025.7	-2	SW'W	3	c	40	75	5	-	-	0	ASt	10	1
Lympne	1026.7	-1	WSW	2	c/m	37	75	5	5700	StCu	8	ASt	10	0
Scilly (St. Mary's)	1028.6	-3	W'N	4	ffo	53	97	2	800	St	10	-	10	•
Falmouth (Pendennis)	1027.8	-3	NW'W	2	cd₀	53	97	6	2500	StCu	10	-	10	•
Plymouth (Cattewater)	1027.9	-4	NW	2	ffo	47	97	2	<150	St	10	-	10	2
Portland Bill	1027.1	-3	WSW	4	or.r.	60	85	6	1500	St	10	-	10	•
Southampton (Calshot)	1027.2	-3	W'S	3	c	46	75	7	2500	StCu	10	-	10	0
Dungeness	1027.0	-1	WNW	1	c/m	41	75	6	1500	StCu	10	-	10	•
Guernsey (Fort George)	1029.3	-3	W	1	cdd₀	47	92	4	450	St	8	ASt	10	•

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	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1008.5	-1	W	3	or.r.	49 (corrected from 50)	97	6	1500	Nb	10	-	10	•
Stornoway	1018.0	-2	W	3	odd	51	97	6	1500	Nb	10	-	10	2
Wick	1014.0	-1	W	3	bc	52	92	8	1500	StCu	4	CiSt	6	0
Tiree	1022.1	0	WNW	5	od₀	51	97	5	<150	Nb	10	-	10	1
Nairn	1017.2	•	W	3	c	54	85	8	2500	CuNb	8	-	8	•
Aberdeen	1016.1	+1	SSW	2	c	56	85	6	4000	StCu	6	ASt	9	0
Malin Head	1024.8	0	WNW	6	c/m	50	97	7	1500	St	9	-	9	4
Renfrew	1021.2	+1	W	3	c	51	85	7	1500	St	10	-	10	•
Edinburgh (Inchkeith)	1019.0	+2	WSW	4	c	50	92	8	1500	St	6	ACu	8	2
Leuchars	1018.1	0	WSW	4	c	51	85	8	4000	StCu	6	ASt	9	•
Eskdalemuir	1019.8	-1	NNE	2	c	51	85	8	2500	StCu	9	-	9	•
Tynemouth	1018.4	-2	W	2	bc/r	51	97	7	1500	Cu	6	-	6	2
Blacksod Point	1028.4	0	W	4	c	51	97	7	•	-	0	ASt	10	4
Donaghadee	1023.9	0	W'N	3	c	51	92	8	4000	StCu	9	-	9	2
Birr Castle	1027.8	•	W	1	c	51	92	7	1500	StCu	9	-	9	•
Holyhead	1024.7	0	NWW	4	o	52	92	7	1500	St	10	-	10	3
Liverpool (Bidston)	1023.5	-1	W'N	5	c-	49	97	7	1500	StCu	9	-	9	•
Chester (Sealand)	1023.1	0	WNW	4	c	51	92	6	1500	St	8	-	8	•
Harrogate	1020.9	0	WSW	3	c	48	92	6	4000	Nb	9	-	9	•
Spurn Head	1019.9	-1	W	4	odm	46	97	4	450	St	10	-	10	4
Birmingham (Edgbaston)	1023.6	-2	WNW	3	mmo	49	92	4	2500	St	10	-	10	•
Cranwell	1022.1	-4	W'N	4	o/a	45	97	4	800	St	10	-	10	•
Gorleston	1022.4	-3	SWW	3	or₀	41	92	5	1500	Nb	10	-	10	0
Valentia (Cahirciveen)	1031.3	+1	NW'W	4	c	63	92	8	450	St	9	-	9	3
Roches Point	1029.2	+1	N	3	c	53	92	8	4000	StCu	8	-	8	0
Pembroke (St. Ann's H.)	1026.5	0	WNW	2	bc	53	92	7	2500	Cu	5	CiCu	7	1
Ross-on-Wye	1023.7	-1	WSW	2	bc-	49	92	5	2500	StCu	6	ACu	7	•
Leafield	1023.6	-2	WSW	3	o	43	97	5	450	St	10	-	10	•
Winchester (Worthy Dn.)	1024.9	-2	-	0	od₀	43	97	2	<150	St	10	-	10	•
S. Farnborough	1024.5	-1	WSW	1	odd	43	97	4	460	St	10	-	10	•
London (Kew Obsy.)	1024.5	-2	WSW	2	odd	42	97	5	1500	Nb	10	-	10	•
Croydon	1024.3	-1	SW	2	or.r.	41	97	5	2500	St	10	-	10	•
Shoeburyness	1024.2	-2	SW	3	or₀	42	97	5	2500	Nb	10	-	10	•
Clacton-on-Sea	1023.9	-3	SW	3	o	43	85	5	4000	St	10	-	10	2
Felixstowe	1023.4	0	SW	3	mmc	42	85	4	-	-	0	ASt	10	1
Lympne	1024.5	-2	WSW	3	or.r.	40	75	5	1500	Nb	10	-	10	•
Scilly (St. Mary's)	1028.6	0	NW	4	c/f	52	97	7	4000	Nb	9	-	9	4
Falmouth (Pendennis)	1027.4	-1	NW'W	1	od₀	52	97	6	2500	Nb	10	-	10	0
Plymouth (Cattewater)	1027.0	+1	NNW	1	odd	62	97	5	<150	St	10	-	10	0
Portland Bill	1024.7	-2	W	3	c/m	51	92	6	1500	St	6	ASt	10	0
Southampton (Calshot)	1024.7	-2	W'N	2	odd	47	97	5	800	Nb	10	-	10	0
Dungeness	1024.7	-2	SW	2	or₀	45	92	6	2500	Nb	10	-	10	2
Guernsey (Fort George)	1026.6	-5	W	1	odd	51	97	4	800	Nb	10	-	10	3

LONDON OBSERVATIONS. Day 7h-18h., Kew & Croydon. 9h-15h, Kensington. 9h-21h., other stations.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 Hours ended 9h.											
Kew	18	cm₀x	omd,d	om₀dw	44	42	42	0.3	0.2	0.0	*	*	6
Croydon	244	cmf₀f₀	cdd₀f₀f₀	ocd₀m₀	43	41	41	0.2	0.4	0.0	*	*	4
Greenwich (Royal Obsy.)	159	cm	cdm	odcm	44	44	40	[illegible]	0.3	0.0	77	90	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	?	38	38	0.6		0.0	69	83	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	c	cod	*	43	43	*	Tr	05	*	*	91	*
Kensington Palace	60	om	om	*	43	43	40	05	0.8	*	(At 18h 10.0)	93	*
Hampstead Observatory	450	*	*	*	43	40	35	0.8	0.3	0.0	*	95	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 30th

South Kensington

Max.	Time.	Min.	Time.
1.0	15hrs 29th	0.3	6hrs 30th

Kew Observatory

Max.	Time.	Min.	Time.
0.5	10hrs 29th	0.1	4hrs 30th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 29th 17 h. 00 m. to 30th 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13-30	NIL	NIL
δ Ursae Minoris	13-30	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 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 & 1st December, 1928.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.42	11.42	15.41
	7.44	11.42	15.41
Greenwich	7.44	11.49	15.53
	7.45	11.49	15.53
Wick	8.36	12.1	15.26
	8.38	12.1	15.24
Valentia	8.27	12.30	16.32
	8.28	12.30	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. l 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. r₀ = slight rain.
rr = continuous rain.

SYMBOLS.

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

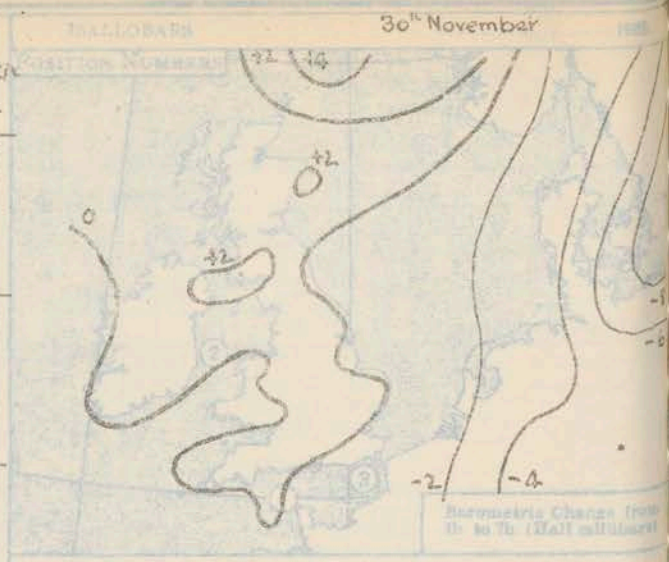
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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 18h. 30th.	18h.-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	or,r m.	or,r m	ci pr.	c	51	46	•	3	<8.00	0.4	<21.00	0.0
Stornoway	p	r-d	d	p	52	49	•	0.6	<8.00	2	21.00	0.0
Wick	ocpr	c	c	d,r,r	53	50	•	0.1	<8.00	1	14.30	•
Tiree	d,m,d	d,m.	d,,o	pd,,o	52	50	49	1	<8.00	0.1	<21.00	0.0
Nairn	c	cq	cq	cq	55	51	•	–	–	–	–	0.0
Aberdeen	oir,circ	c3.	c3.	c	56	53	47	1	<8.00	–	–	0.0
Malin Head	odim	od,mm	cd,m,D	cd,m.	51	49	•	0.1	<8.00	0.1	<21.00	0.0
Renfrew	od,om.	oc	c	c	53	50	49	Tr.	<8.00	–	–	0.0
Edinburgh (Inchkeith)	o m.	omirc	cir,bc	bc c	52	48	45	0.2	16.30	Tr.	22.00	0.0
Leuchars	cm, pr.	c,prc	cbcc	cpr, c	53	47	42	Tr.	09.00	Tr.	04.30	0.1
Eskdalemuir	or,ofecm	cid,mc	cpr,c	cbc	51	48	47	0.1	<8.00	Tr.	<21.00	0.0
Tynemouth	corr	bcoir.	bcc	bc	52	49	45	4	9.00	–	–	•
Blacksod Point ...	c	do	Dc	d,d,c	53	49	•	0.2	•	0.3	•	•
Donaghadee	cir,c	cir,c	c	c	54	49	•	0.5	<8.00	–	–	•
Birr Castle	cm,e	c	coid,	oid,	53	48	45	Tr.	<8.00	0.2	22.00	0.1
Holyhead	dd r,oD	prco	cd,c	c	53	51	50	1	<8.00	Tr.	22.00	0.2
Liverpool (Bidston) ...	orfd.	ömdo	dd,qm	d,dmq	50	48	45 36	6	<8.00	0.4	<21.00	0.0
Chester (Sealand) ...	rr,df	ofr,c	cd,m,	ddm,c	52	49	47	3	9.00	0.3	22.00	0.0
Harrogate	cid.	c	cp,b	bcp,b	49	47	42	0.2	11.00	Tr.	<21.00	0.2
Spurn Head	cpro3	od,m	cfc	c	47	45	•	Tr.	11.00	–	–	0.0
Birmingham (Edgbaston)	c	od,m	om	od,	49	48	47	Tr.	11.00	0.2	24.00	0.0
Cranwell	cm.	crcidf	bmbcm.	bccr,	45	42	39	0.4	12.30	Tr.	05.30	0.2
Gorleston	cm.	cm.	omrom	omir	41	40	39	Tr.	17.30	3	<21.00	0.0
Valentia (Cahirciveen)	or,of	ofoc	coid,	coid,	53	50	48	1	<8.00	0.2	<21.00	0.0
Roches Point	c	c	cp,c	c	56	50	•	–	–	0.1	<21.00	•
Pembroke (St. Ann's H.)	cd,m	bc	bc	c	54	51	•	Tr.	12.30	–	–	0.0
Ross-on-Wye	cid.	cod,c	bcc	c	49	49	45	Tr.	9.00	–	–	0.0
Leafield	cr,c	od f	cd,	od,	43	43	43	1	<8.00	0.2	22.00	0.0
Winchester (Worthy Dn.)	cm.	cmdorff	offd,m,	om,d,c	43	42	~~37~~ 42	3	13.30	0.1	<21.00	0.0
S. Farnborough ...	c	oddm	od,r,m,	o m.	43	43	43	1	14.30	0.3	<21.00	0.0
London (Kew Obsy.) ...	cm,x	omd,d	om,dd	o m.	44	42	42	0.3	15.30	0.2	<21.00	0.0
Croydon	cmx3.	c3,drr.	or,d,m,	o m.	43	41	41	0.2	15.30	0.4	<21.00	0.0
Shoeburyness	omoff	ofmr.	or,m,	o	43	43 40	40	Tr.	17.30	0.5	<21.00	0.0
Clacton-on-Sea ...	c3om	om	ogmd	oymdcbc	~~[illegible]~~	41	41	–	–	2	<21.00	0.0
Felixstowe	c3.	c3	bcd,rr	cbcm,	42	41	40	–	–	4	<21.00	0.0
Lympne	cm.	c3orr3.	orrd,d,ff	odd,offm	40	39	38	Tr.	17.30	2	<21.00	0.0
Scilly (St. Mary's) ...	oddff	offc	cbcif	c	54	50	4.	3	<8.00	Tr.	<21.00	0.0
Falmouth (Pendennis)	om,d.	comd.	om,d,c	cr,	53	52	•	Tr.	11.00	Tr.	<21.00	0.2
Plymouth (Cattewater)	codfefe	ofed,d	om,d,c	c	52	52	50	1	<8.00	0.1	<21.00	0.0
Portland Bill	cod,3.	oid,m3.	c	c	52	51	•	Tr.	11.00	–	–	•
Southampton (Calshot)	cm.	coddrrdm	od,d,ocm,	cd,cid,m,	48	46	45	1	13.30	0.1	<21.00	0.0
Dungeness	c3omc	fir.	or,cdd	ofd m,	46	~~45~~ 38	•	Tr.	17.30	2	<21.00	•
Guernsey	cidmdorrdm		d,d,o m,	oc	51	51	•	2	12.30	0.3	<21.00	0.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
1	12h 29th.	ST HELIER	NNW	4	c+	51	53	8
2	2h 30th.	ARUNDEL	NW	2	c/r	54	52	7

GENERAL REFERENCES.

Eastward moving depressions over Scandinavia and on the Eastern Atlantic are separated by a ridge of relatively high pressure over the British Isles. Weather will continue cloudy and mild and some rain or drizzle is likely in most districts.

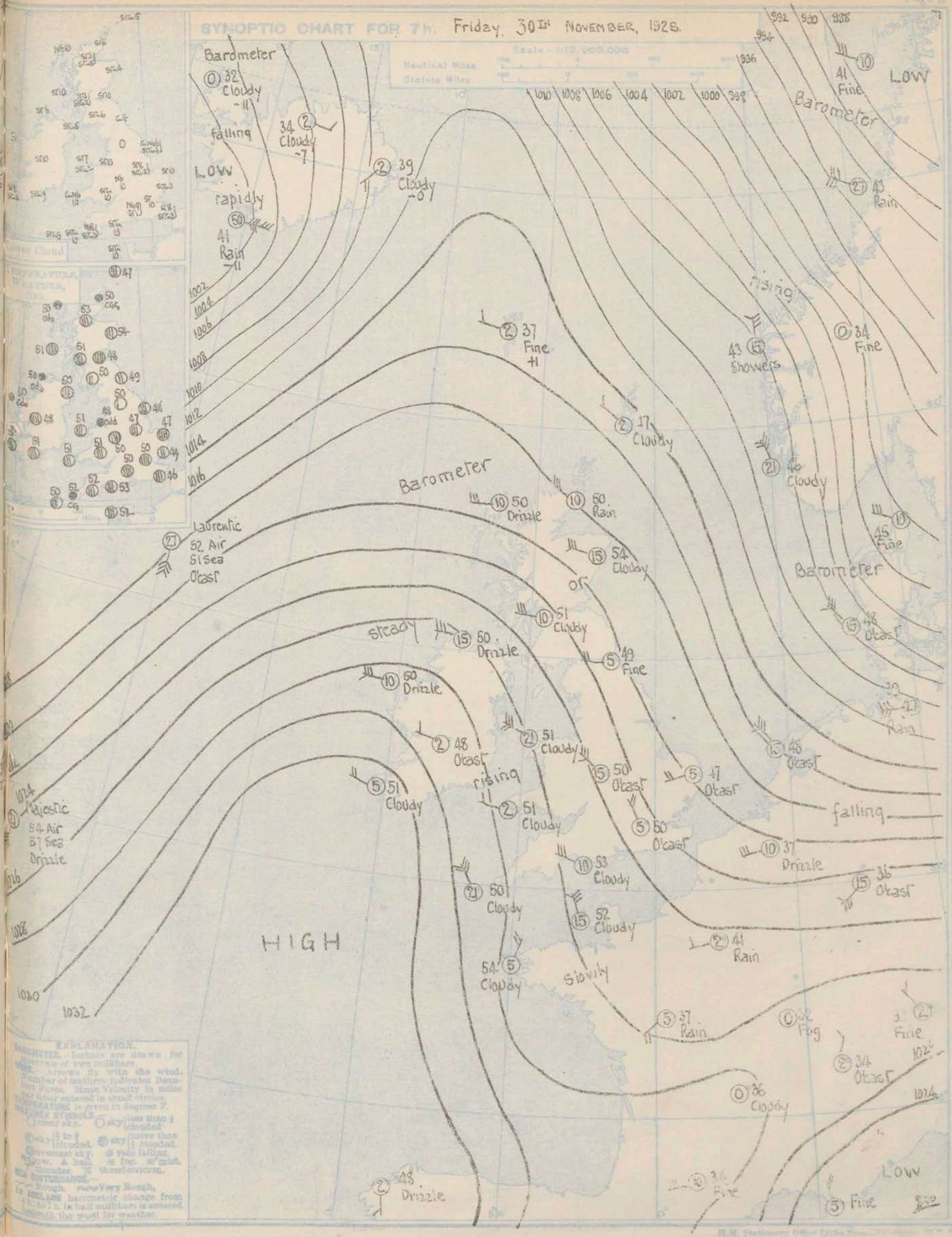
Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 30th November, 1928.

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 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate northwesterly winds backing somewhat and freshening a little; cloudy, some light rain or drizzle; mild.	Mild and cloudy with some rain or drizzle.
13. A. W. Scotland B. NW Scotland 14. Mid-Scotland	Moderate westerly winds backing and freshening; cloudy, some rain; mild.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate northwesterly winds backing and freshening; cloudy, some rain or drizzle; mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate westerly or northwesterly winds backing and freshening somewhat; cloudy, some rain or drizzle; mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0915 G.M.T. G. C. SIMPSON, 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, 30th NOVEMBER, 1928.
Barometer
falling
rapidly
LOW
rising
Barometer
HIGH
Laurentic
Majestic
steady
slowly
falling
Low
Fine
Fog
Drizzle
Rain
Showers
Cloudy
Overcast

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. FRIDAY 30th NOVEMBER 1928. No. 335

Observations at 1h. G.M.T. 30th

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	1009.1	+1	SW	4	c/p	49	92	7	1500	CuNb	6	aSc	9
Stornoway	30	1019.9	+1	W	3	bc	*	*	6	*	*	*	*	10
Wick	81	1015.6	+2	NNW	4	c	51	85	8	1500	ScCu	4	Ci Sc	9
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	83	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1025.7	-1	WNW	5	cd_o	50	97	5	1500	Sc	8	Ci Sc	10
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1019.0	+1	W	3	bc	50	92	8	1500	Sc	2	aCu	6
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1019.9	+1	W	2	bc-	50	92	7	1500	Cu	6	-	6
Blacksod Point	18	1028.7	0	W	4	bc	50	97	7	*	-	0	aSc	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	1025.1	+0	NW	5	c	52	92	8	2500	Sc	9	-	9
Liverpool (Bidston)	183	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	578	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1019.6	0	WNW	4	c	46	97	6	2500	Sc	4	aCu	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1021.8	0	W'N	3	bc-	45	97	5	-	-	0	aCu	6
Gorleston	14	1019.7	-3	W'S	2	mmo	44	97	4	800	Sc	10	-	10
Valentia (Cahirciveen)¶	20	1031.4	0	W	2	cd_o	51	92	7	2	Sc	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1025.1	-1	WNW	4	c+	53	92	8	1500	Cu	9	-	9
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Lesfield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	46	*	*	*	*	*	*	*
Croydon	244	1022.6	-1	WNW	3	o	47	97	5	1500	Sc	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	300	1021.7	-2	NW'N	2	cd_o	43	97	1	1100	Sc	10	-	10
Scilly (St. Mary's)	162	1028.5	-1	NW'W	5	c	51	97	7	4000	ScCu	9	-	9
Falmouth (Pendennis)	300	1026.5	0	NNW	3	c+	53	92	7	2500	ScCu	10	-	10
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1024.0	0	WNW	3	c	52	85	8	1500	Ci	7	aSc	10
Southampton (Calshot)	10	1023.6	-0	NW	2	c	48	97	6	800	ScCu	10	-	10
Dungeness	20	1022.5	-3	W	2	oo-	46	97	5	800	Nb	10	-	10
Guernsey (Fort George) ¶	206	1026.0	-2	NW	3	c+	53	85	7	4000	ScCu	10	-	10

Observations at 7h. 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	Sun. 0-9
Lerwick	1014.4	+4	NW	1	c	47	85	8	1500	ScCu	5	aSc	10	*
Stornoway	1019.6	+1	W	3	cd_o	50	97	6	1500	Nb	10	-	10	2
Wick	1017.5	+1	NW	3	cd_o	50	97	7	1500	Sc	6	aSc	10	0
Tiree	1023.6	+1	NW'W	5	o	51	97	7	800	Sc	10	-	10	1
Nairn	1019.1	*	W	3	c	53	85	8	1500	ScCu	8	-	8	*
Aberdeen	1018.0	+2	WNW	4	c	54	85	7	4000	ScCu	4	aCu	9	0
Malin Head	1026.3	+1	WNW	4	cd_o	50	97	6	2500	Sc	6	aSc	10	4
Renfrew	1022.6	+1	W	3	c	51	92	7	1500	ScCu	9	-	9	*
Edinburgh (Inchkeith)	1020.5	+1	WSW	3	o	48	92	8	800	Sc	10	-	10	1
Leuchars	1019.5	+1	SSW	3	c	50	85	8	2500	ScCu	7	aSc	9	*
Eskdalemuir	1021.7	+2	W	4	bc	50	85	8	2500	ScCu	6	aCu	7	*
Tynemouth	1019.7	0	W	2	bc	49	92	6	1500	Cu	4	aCu	6	2
Blacksod Point	1029.1	0	WNW	4	cd_o	50	97	7	*	-	0	aSc	10	4
Donaghadee	1025.2	+2	W	2	c	50	92	8	4000	ScCu	8	-	8	2
Birr Castle	1029.2	*	WNW	1	o+	48	97	6	800	Sc	10	-	10	*
Holyhead	1026.0	+1	NW'W	5	c	51	92	7	2500	Sc	9	-	9	3
Liverpool (Bidston)	1023.8	+0	NW'W	6	ouu	48	97	4	1500	Sc	10	-	10	*
Chester (Sealand)	1023.5	+1	NW'W	5	c	50	92	8	4500	Sc	9	-	9	*
Harrogate	1021.2	0	W	4	b	50	75	8	-	-	0	aCu	2	*
Spurn Head	1019.2	0	W'N	5	c	48	92	6	4000	CuNb	10	-	10	3
Birmingham (Edgbaston)	1023.3	0	NW	4	o	50	85	7	1500	Nb	10	-	10	*
Cranwell	1021.7	+0	WNW	4	c	47	97	6	1500	Sc	10	-	10	*
Gorleston	1019.6	0	WSW	2	o	47	97	5	1500	Sc	10	-	10	0
Valentia (Cahirciveen)¶	1032.1	0	NW'W	2	c/r	51	92	6	220	Sc	10	-	10	3
Roches Point	1029.9	+1	N	3	c	51	92	8	2500	ScCu	9	-	9	4
Pembroke (St. Ann's H.)	1026.7	0	WNW	2	c	51	97	8	1500	CuNb	10	-	10	2
Ross-on-Wye	1023.7	0	W	2	c	51	85	8	4000	ScCu	10	-	10	*
Leafield	1023.0	+0	NW	4	o	48	97	7	1500	Nb	10	-	10	*
Winchester (Worthy Dn.)	1023.4	+1	NW	3	c	49	92	7	800	Sc	10	-	10	*
S. Farnborough	1022.4	+1	NW'N	2	o	50	92	6	800	Nb	10	-	10	*
London (Kew Obsy.)	1022.4	+1	NW	2	o	50	92	5	1500	Sc	10	-	10	*
Croydon	1024.3	-0	NW'N	3	o	48	97	5	800	Sc	10	-	10	*
Shoeburyness	1021.6	0	WNW	1	c	49	97	7	800	Sc	7	aSc	10	*
Clacton-on-Sea	1020.6	0	WNW	3	bc	47	85	6	2400	ScCu	7	-	7	1
Felixstowe	1020.5	0	WNW	3	bc	47	92	5	4000	ScCu	3	-	3	1
Lympne	1021.1	-1	NW	3	o	47	97	5	2500	Sc	10	-	10	*
Scilly (St. Mary's)	1028.7	0	NNW	5	c	50	92	7	4000	ScCu	9	-	9	4
Falmouth (Pendennis)	1027.5	+1	NW'N	3	cd_o	52	85	7	4000	ScCu	10	-	10	1
Plymouth (Cattewater)	1026.3	0	WNW	3	c	52	92	7	1500	Nb	10	-	10	0
Portland Bill	1026.1	0	NW'W	3	c	53	85	8	2500	ScCu	10	-	10	0
Southampton (Calshot)	1023.4	+0	NW	3	cu	50	85	6	800	Sc	10	-	10	0
Dungeness	1021.5	-1	W	1	c/f	46	97	6	800	Sc	10	-	10	2
Guernsey (Fort George) ¶	1028.7	-0	NNW	4	c	52	92	9	2500	ScCu	10	-	10	3

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29th NOVEMBER

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 28th to 9h. 29th. °F.	Temperature. Max. 9h. 29th. °F.	Rainfall.† Night 17h.-9h. 28th-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_o	c	34	52	-	0.3	0.2
Douglas (I. o. M.)	omd	c	37	52	1	1	0.0
Llandudno	d	doc	36	52	1	1	0.0
Colwyn Bay	ocdd	do	37	53	1	0.3	0.0
Rhyl	ovpo	o	34	52	1	0.3	0.0
Wallasey	rrf	rfo	35	50	3	2	0.0
Southport	rof	orore	35	49	2	1	0.0
Blackpool	rom	cod	34	49	4	0.5	0.0
Ilkley	og	do	32	49	-	0.5	0.0
Cleethorpes	o	of	34	44	-	-	0.0
Skegness	cobc	bcomd	34	43	-	-	0.8
Aberystwyth	cod	oc	34	50	2	3	0.0
Bath	ncd	cdom	31	49	Trace	0.1	0.0
Cheltenham	o	orm	31	47	-	0.3	0.0
Leamington Spa	o	or	31	45	-	2	0.0
Lowestoft	o	c	36	40	0.1	-	0.0
Harwich & Dovercourt	oc	ocf	34	41	-	Trace	0.0
Maldon	o	of	34	42	-	-	0.0
Southend	of	om	34	42	Trace	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	omd	omdo	39	54	1	0.6	0.0
Penzance	omd	omd	43	54	0.5	0.3	0.0
Paignton	om	odpo	38	53	-	1	0.0
Torquay	om	odop	37	52	-	0.3	0.1
Jersey	cd	cd	42	49	-	1	0.0
Weymouth	cs	de	34	50	-	0.2	0.0
Bournemouth	o	d	32	48	-	1	0.0
Ventnor	occd	odnr	35	49	-	1	0.0
Portsmouth (S'thsea)	o	odf	35	47	-	0.6	0.0
Bognor	c	cofo	35	45	-	1	0.0
Littlehampton	c	omd	35	44	-	0.2	0.0
Worthing	c	cod	34	44	-	Trace	0.0
Brighton	cbc	bccod	34	45	-	0.4	0.0
Eastbourne‡	o	od	35	47	-	Trace	0.0
Hastings‡	oco	o	35	44	-	-	0.0
Folkestone	omm	of	35	42	-	-	0.0
Dover	mow	cow	37	44	-	-	0.0
Tunbridge Wells	o	o	31	43	-	-	0.0
Ramsgate	om	om	36	43	-	-	0.0
Margate	o	o	38	42	-	-	0.0
Deal	o	o	35	41	-	-	0.0

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* Information not usually received. ¶ The observations at 7h. G.M.T. and at Guernsey, the sunshine readings are from an auxiliary station. † For note 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 17h.-9h. ‡ 21h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, November 1928.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st.	Lerwick	13h. Wind NNE
	Tiree	" Wind NNE
	Inchkeith	18h Bar. 1011.0
	Liverpool	" Weather 0
	Leafield	" Humidity 92%
	Wick	Night rain began 24.00
	Inchkeith	Grass Min. 41° Day rain 12mm
	Leuchars	7-13h Weather Rr,c Sun 0.1
	Birr Castle	13-18h Weather cpr,
	Ross-on-Wye	Min. 42°
	Valentia	1h. Weather c Cloud AStr 9
	Wick	7h Weather C
	Liverpool	} interchange 7h.
	Sealand	} observations
	Rhyl	Max. 59°
	Torquay	Weather forenoon bc.
	"	" afternoon co. Day rain -
2nd	Dungeness	13h. Cloud upper form ACu.
	Lerwick	18h. Wind force 3
	Dungeness	18h. Cloud ht. 800ft.
	Blacksod	Min. Temp. 43°
	Leafield	Night rain began <21.00
	Dungeness	Max. 54°
	Pembroke	" 53°
	Dungeness	1h Weather qr,r,
	Pembroke	7h " bc
	Cheltenham	Sun 1.0
	Bude	Observations not taken
3rd.	Holyhead	13h. Humidity 75%
	Worthy Down	" State of ground 1
	Scilly	" Temp. 47°
	Greenwich	Day rain 0.3mm.
	Sealand	7-13h Weather bcm,3,
	"	1-7h " bcm,x
	S. Farnborough	7-13h " cir,
	Felixstowe	Sun 0.1.
	Wick.	7h. Total cloud 7
	Sporn	1h. Bar. 1008.9
	Dungeness	1h. Wind force 3
	Cheltenham	cbcc: co: min 37. max 48 Rain - - Sun 1.0
	Ventnor	Max. Temp. 44°
4th	Holyhead	13h. Wind force 1
	Sporn	" Bar. 1008.1
	Gorleston	" Wind NW'N.
	Roches Pt.	" Humidity 75%
	Bonhill Row	Sun 3.4
	Westminster	" 2.8
	Hampstead	" 4.3
	Lerwick	Max. Temp. 47°
	Wick	Min. " 44°
	Tiree	Grass Min. 30°
	Nairn	7-13h weather C
	Renfrew	Day rain 2mm.
	Eskdalemuir	7-13h Weather cir,cr,
	Roches Point	Night rain began 1.30.
	Clacton-on-Sea	Grass min. —
	Wick	7h. Bar. 1010.6 Weather or,
	Cranwell	" " 1010.5
5th	Scilly	13h. Bar. 1007.4
	Falmouth	" Humidity 55%
	Dungeness	" Low cloud amount 4
	Lerwick	Sun 0.3
	Tiree	Max. Temp. 44°
	Leuchars	7-13h Weather bccrp,c
	Holyhead	13-18h " ir,m,
	Birmingham	Day rain 0.3mm.
	Pembroke	13-18h Weather bccr,
	"	Day rain 3mm. Time 9.00
	Felixstowe	7-13h Weather crc.
	Dungeness	1h Bar. 1006.8
	Blacksod	7h Bar. 1004.6
	Sporn Head	7h Cloud CuNb6AStr8
	Roches Point	7h Temp. 34° Cloud total 8
	Felixstowe	7h. Wind force 1
	Berwick-on-Tweed	Night rain 14mm

Report for	STATION.	CORRECTION.
6th	Inchkeith	18h Wind force 3
	Leuchars	7-13h Weather C
	Valentia	Day rain 0.2mm.
	Dungeness	Min. Temp. 36°
	Inchkeith	1h. Temp. 45°
	Dungeness	" " 37°
	S. Farnborough	7h Bar. 1009.8 Wind NE
	Dungeness	7h Cloud ht. 3000ft.
	Southport	Min. Temp. 38°
	Cleethorpes	Day rain 7mm.
	Cheltenham	Sun 2.2.
7th.	Inchkeith	13h. Humidity 75%
	Shoeburyness	18h Temp. 46°
	Ross-on-Wye	13-18h Weather CO
	Worthy Down	13-18h " bmoff
	Guernsey	Day rain 1mm.
	Falmouth	1h. Weather C
	Ross-on-Wye	7h " mmo
	Guernsey	" Total cloud 6
8th	Regents Park	Sun 0.9.
	Lerwick	Max. Temp 45° Day rain begun 13.30
	Blacksod	Min. " 45°
	Holyhead	7-13h Weather bccm,
	Clacton-on-Sea	Sun 3.9.
	Dungeness	1h. Bar. 1003.8 7h. Low cloud Cu 6
	Paignton	Sun 1.9.
	Bournemouth	Forenoon weather ocb: afternoon bcc
9th	Renfrew	7-13h Weather cp,c
	Leuchars	Max. Temp 46°
	Tynemouth	Day rain 0.3mm.
	Cranwell	13-18h Weather cr, bc. Sun. 4.0
	Clacton-on-Sea	Day rain 0.4mm.
	Gorleston	1h. Weather bc/pr,
	Valentia	" Cloud Low 1 Total 1.
	Pembroke	" Bar. Tendency +3
	Eskdalemuir	7h. Cloud Low 1 Total 1
	Sealand	7h. Temp. 25°
	Cranwell	" Humidity 85%
	Guernsey	" Cloud ht. 1500ft.
10th	Lerwick	18h Humidity 92%
	Holyhead	" Wind SSW.
	Regents Park	Sun 6.6.
	Inchkeith	Min. Temp. 43°
	Tynemouth	Grass Min. 30°
	S. Farnborough	Night rain began —
	Lerwick	1h. Wind N
	Malin	" Cloud Upper Form CiSt.
	Scilly	" Temp. 43°
	Tynemouth	7h Wind force 3
	Skegness	Day rain —
11th	Wick.	18h. Wind NW
	Leafield.	" Weather od+
	Scilly	" Weather 0. Visibility 5
	Portland Bill	" Temp. 53°
	Guernsey	" Weather cr,r,
	Kew	Day rain 2mm (Pages 1 & 2)
	Westminster	Min. Temp ?
	Kensington Palace	- " ?
	Greenwich (Pole Star)	Exposure 17h.15m to 6h.15m
	"	Polaris 13h. 0m record NIL % NIL
	"	Ursae 13h. 0m " " " "
	Malin	Max. Temp. 53°
	Inchkeith	" " 52°
	Blacksod	" " (54°)
	Birr Castle	Day rain 4mm
	Holyhead	13-18h Weather pr,c
	Pembroke	Max. Temp. 55°
	Leafield	1-7h Weather or,fo
	Falmouth	Max. Temp. 55°
	Plymouth	18-1h Weather oq,d,d,m,
	Holyhead	1h Wind force 3
	Falmouth	" Cloud ht. 1500ft.
	Birr Castle	7h Temp. 55°
	Plymouth	" Sea 2

Report for	STATION.	CORRECTION.
12th	Leuchars	13h Weather cr-
	Gorleston	" Humidity 92%
	Lympne	" " 97% Cloud 4x<15
	Falmouth	" Weather cd-
	Scilly	18h Temp. 55°
	Stornoway	1-7h Weather cpcc
	Donaghadee	Night rain began <21.00
	Cranwell	Grass Min. 47°
	Holyhead	1h. Low Cloud Amount 2
	Gorleston	1h. Bar. 1010.7 Weather or,
	Pembroke	1h. Bar. 1010.5
	Page 4 — Heading should read Monday	
13th	Malin Head	13h. Tendency -4
	Cranwell	13h. Cloud Low. Cu. Total Cu. 6.
	Portland Bill	" Cloud ht. 800ft.
	Leuchars	18h Delete Upper Cloud Form
	Nairn	1-7h Weather q,cp.
	Inchkeith	Min. Temp. 47°. Grass Min. 41°
	Sporn	Day Rain Trace began 9.00
	S. Farnborough	Night Rain 0.6mm.
	Lympne	" " 0.1mm
	Plymouth	7-13h weather oq,m,d, 13-18h oq,m,dd
	Dungeness	Max. Temp. 57°
	Pembroke	1h. Humidity 97%
	Kew	7h. Visibility 6.
14th	Eskdalemuir	13h. Low Cloud Cu
	Worthy Down	" Visibility 8
	Leafield	18h Wind SW'W.
	Birr Castle	13-18h Weather. cph,r,
	Holyhead	Day rain 2mm.
	S. Farnborough	13-18h Weather bccurbc
	Kew.	Max. Temp. 59°
	Shoeburyness	18-1h Weather bccir. Min 43°
	"	1-7h " ircbcm,
	Malin	1h. Temp. 42°
	Clacton-on-Sea	7h Humidity 97%
	Torquay	Day rain Trace.
	Ventnor	Sun 2.0.
15th	Holyhead	13h. Bar. 1007.2
	Guernsey	" " 1017.3
	Malin Hd.	18h Sea. 4
	Leafield	" Temp. 46°
	Falmouth.	" Cloud ht. 2500ft.
	Dungeness	" Bar. 1013.5
	Guernsey	" Humidity 65%
	Malin	Day rain 3mm
	Renfrew	Max. Temp. 48°
	Holyhead	7-13h Weather p,c
	Harrogate	Night rain 3mm. Sun. 1.2.
	Roches Point	Min. Temp. 44°
	Plymouth	7-13h Weather crq,b 13-18h cqr
	Guernsey	Night rain 8mm.
	Wick	1h. Cloud StCu 5 CiSt 7
	Holyhead	1h Cloud Nb9 Total 9
	Renfrew	7h " StCu9 " 9
	Roches Point	" Bar. 987.9.
	Dungeness	" Weather oR-
16th	Eskdalemuir	13h Temp 48°
	Blacksod	18h Bar. 989.5
	Felixstowe	" 999.2
	Renfrew	13-18h Weather cidqc Sun 0.8
	Eskdalemuir	7-13h Weather qcpr 18-1h cid,bc
	Holyead	1-7h " b,cm,
	Valentia	Max. 53° Min. 46°
	Roches Point	Night rain began 22.00
	Pembroke	Max. 55°. Night rain began 22.00
	Leafield	1-7h Weather bbcr, Day rain 2mm
	Worthy Down	13-18h weather cpr,bcc
	Shoeburyness	Min. Temp 44°
	Pembroke	1h. Cloud ht. 800ft.
	Sealand	7h. Upper Cloud AStr
	Birmingham	" Temp. 45°
	Plymouth	" Tendency -10
	Dover	Min. Temp 50° Sun 0.5

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, November 1928.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
17th	Liverpool	13h Bar. 965.3 Wind SSW
	Birmingham	" Temp. 53°
	Ross-on-Wye	" Bar. 971.3
	Scilly	" Bar. 984.6
	Falmouth	" Cloud ht. 4000ft.
	Dungeness	" Bar. 982.1
	Guernsey	" Wind force 8
	Donaghadee	18h Weather cr-
	Birr Castle	" Bar. 982.3.
	Birmingham	" Cloud Nb 9. Total 9.
	Falmouth	" Wind W'N Weather bcpr₀
	Dungeness	" " force 10
	Lerwick	Sun 0.5h.
	Renfrew	18-1h weather crzb: 1-7h bcpr₀
	Eskdalemuir	Day rain 16mm.
	Holyhead	13-18h weather pr₀cq
	Birmingham	Max. Temp 56°
	Valentia	Min. " 42°
	Worthy Down	18-1h weather bcpr bc
	Felixstowe	13-18h " bcorr
	Plymouth	Sun 0.0
	Holyhead	1h. Bar. 986.0
	Valentia	1h Cloud 0 Weather b/r
	Guernsey	" Temp. 50°
	Ramsgate	Weather ro: obc Day rain - Sun 0.7
18th	Westminster	Max. 52 Min 41° Grass min 34°
	"	Rain -- Humidity 61% 84%
	Camden Square	Max. 52 Min. 41° Rain --
	"	Humidity 85%
	Greenwich	Pole Star 17h.00m to 6h.30m
	"	Polaris Exposure 1330 Record 1330 100%
	"	Ursae " 1330 " 1330 100%
	Tiree	Min. Temp. 45°
	Birr Castle	" " 37°
	Croydon	Sun (5.5)
	Gorleston	7h. Temp. 42°
19th	Lerwick	13h. Cloud CuNb 7 No upper Form
	Tiree	" Temp. 46°
	Renfrew	" Humidity 85%
	Eskdalemuir	" Wind SW
	Harrogate	" " SW 5
	Spurn	" weather bc visibility 7
	Pembroke	18h Humidity 97%
	Regents Park	Sun 3.0h
	Greenwich	Record Polaris 3h 55m.
	Lerwick	Max. Temp. 45°
	Holyhead	18-1h weather r cm₀
	Gorleston	1-7h " bcor₀rq
	Roches Point	1-7h " orr
	Inchkeith	1h visibility 8.
	Dungeness	" Cloud Cu 5 Total 5
	Wick	7h. weather c

Report for	STATION.	CORRECTION.
19th	Holyhead	7h Bar. 996.5
	Worthy Down	" Humidity 97%
	Plymouth	" Wind 5
20th	Eskdalemuir	13h. Bar. Tendency -6
	Spurn	" Temp. 54°
	Gorleston	" weather or₀
	Leuchars	18h " cpr₀
	Dungeness	" Wind 15
	Leuchars	18-1h weather prcb.c
	Liverpool	1-7h " cpb
	Cranwell	18-1h " orcbc.
	Clacton-on-Sea	Sun 0.0
	Cranwell	0100 Tendency +5. Wind W'S.
	Kew	0700 Bar 1018.5
	Calshot	" visibility 8
	Rhyl	Min. 46. Max 59.
21st	Pembroke	13h. Visibility 7
	Falmouth	18h Wind SW
	Eskdalemuir	18-1h weather bbcpr₀ Night rain began 22.00
	Sealand	Sun 0.3
	Shoeburyness	Night rain 0.2mm
	Clacton-on-Sea	Sun 3.6h.
	Dungeness	Max Temp. 55°
	Portland Bill	7h. Wind force 6
22nd	Stornoway	13h. Temp. 46°
	Clacton-on-Sea	18h Tendency -3
	Blacksod Point	Min. Temp. 49°
	Leafield	13-18h weather oRRbc
	Falmouth	Max. Temp. 56°
	Calshot	Night rain 0.1 mm.
	Dungeness	0700 Temp 53°. Cloud ht. 800ft.
	Worthing.	Afternoon weather cor.
23rd	Renfrew	13h Cloud 9. Total 9.
	Malin Head	18h Weather bcpr₀
	Birr Castle	18h. Visibility 7.
	Liverpool	" humidity 92%
	Valentia	Sun 0.1
	Leafield	13-18h weather orr
	Guernsey	Min. Temp. 52°
	Falmouth	1h. Temp. 53°
	Guernsey	" Tendency -2
	Nairn	7h. Humidity 75%
	Aberdeen	" Visibility 7
	Inchkeith	" Low cloud Cu
24th	Wick	13h Low cloud amount 8
	Malin Head.	18h. Tendency +9.
	Leuchars	7-13h weather croRR.
	Pembroke	Day rain 10mm.
	Ross-on-Wye	1-7h weather cqir₀. Sun 0.8h
	Worthy Down	7-13h " or₀rrm₀
	Lympne	Min. Temp. 42°
	Scilly	Sun 1.0h
	Lerwick	7h. Total cloud 8
	Ross-on-Wye	" Temp. 49°
	Aberystwyth	Day rain —
25th	Stornoway	13h. Temp. 46°
	Pembroke	" Wind W'N 6.
	Westminster	Max. 57° Min. 46°. Rain 5mm. Humidities 66% 91%
	Camden Square	" 49° " 46° " -- 6mm - 90%
	"	weather c : c

Report for	STATION.	CORRECTION.
25th	Greenwich	Pole Star 17.00 to 06.30
	"	Polaris Exposure 1330 Record 3.19. 25%
	"	Ursae " 1330 " 3.01 22%
	Aberdeen	13-18h weather bpr₀b
	Holyhead	18-1h " prrd
	Harrogate	Night rain 3mm.
	Cranwell	Sun 2.6h.
	Roches Point	Max. 51°. Night rain began 19.30
	Lerwick	1h. Total Cloud 5
	Inchkeith	1h. Cloud ht. 4000ft. Low cloud Cu 4
26th	Malin Hd	13h. weather bcr₀
	Leuchars	" Bar. 970.3. Tendency +2
		" Wind WNW. humidity 65%
	Gorleston	" weather bcp/r
	Leafield	" Tendency -3
	Renfrew	18h. Wind NW.
	Inchkeith	" Wind force 3
	Leuchars	" Cloud Low form StCu
	Sealand	" Tendency +13.
	Dungeness	" Temp. 57°
	Lerwick	Min. Temp. 40° Night rain began <21.00
	Stornoway	Max " 46°
	Liverpool	" " 53°
	Roches Point	13-18h weather bcq.
	Ross-on-Wye	Sun 0.6
	Lerwick	7h. Humidity 85%
	Leuchars	" " 65%
	Southport	Min. Temp. 45°
27th	Wick	13h. Low cloud form Nb.
	Ross-on-Wye	" Tendency +2
	Holyhead	18h " -2
	Renfrew	1-7h weather cp₀bc
	Birr Castle	Max. Temp. 47°
	Sealand	1-7h weather cPRQmo
	Falmouth	Min Temp. 45° 1h. Temp. 47°
	Stornoway	7h Low cloud amount 5
	Portland Bill	" Bar 1006.9.
28th	Wick	18h. Weather c/PRS
	Dungeness	" Wind force 2
	Lerwick	Sun 2.1h.
	Stornoway	18-1h weather cphrc night rain began <21.00
	Aberdeen	18-7h " bcprs 1-7h. bcprs.
	Inchkeith	Min Temp. 38°
	Liverpool	Day rain 0.3mm.
	Gorleston	7-13h weather cbccu
	Leafield	Night rain 0.1mm.
	Dungeness	1h. Visibility 7
	Jersey	afternoon weather bcpc
	Margate	Max. Temp 45°
29th	Renfrew	13h. State of ground 2
	Harrogate	" Wind force 4.
	Greenwich	Pole Star. Ursae record 8h. 51m.
	Lerwick	Min Temp 40° 7h. Temp. 49°
	Wick	Night rain 0.1mm. 7h weather o/r
	Tiree	Min. Temp. 43°
	Worthy Down	Grass min. 23°
	Holyhead	1h. Cloud 9 total 9.
	Wick	7h Humidity 97% visibility 6 Sea 0
30th	Tynemouth	13h. Total cloud 7
	Lerwick	18h Temp. 49°
	Spurn	" weather om. 1h. wind WNW.
	Birmingham	" cloud ht 2500
	Clacton-on-Sea	" Temp. 43° min. 13h. Temp. 43°
	Kew	Min Temp. (Page 1&2) 42°
	Tiree	" " 50°
	Liverpool	Day rain 3mm.
	Worthy Down	Grass min. 42°
	Felixstowe	Max. Temp. 42°
	Dungeness	Min. " 38°
	Gorleston	7h. wind WNW
	Pembroke	" " force 2
	Skegness	Weather cobz: bcomd min. 34° max. 43° Rain -- Sun 0.8h.

II.—ADDITIONS.

Report for	STATION.	Hour	Barom. at M.S.L. m.b.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-8	Height of Low Cloud. Feet	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
5th	Pembroke	18h	1004.4	-1	ENE	2	c/r	46	92	8	2500	StCu	8	ASt	10	1
12th	Tynemouth	7h	1004.1	+1	[illegible]	1	c+	49	85	6	1500	Nb	8	-	8	1
17th	Pembroke	13h	964.6	-23	SW'W	10	oRR	[illegible]	[illegible]	[illegible]	450	St	10	-	10	[illegible]
"	"	18h	993.4	+14	W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	600	St	[illegible]	-	[illegible]	7
"	"	1h	[illegible]	+1	WSW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	900	Nb	[illegible]	-	[illegible]	[illegible]
"	"	7h	990.7	+6	NW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	Cu	[illegible]	Ci	[illegible]	[illegible]
"	Portland Bill	13h	983.8	+3	WSW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1500	St	[illegible]	-	[illegible]	[illegible]
"	"	18h	[illegible]	+4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	[illegible]	[illegible]	-	[illegible]	[illegible]
"	Leafield	[illegible]	997.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1500	[illegible]	[illegible]	ASt	[illegible]	7
18th	"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ASt	[illegible]	[illegible]
"	Portland Bill	13h	[illegible]	+6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	[illegible]	[illegible]	-	[illegible]	[illegible]
"	"	1h	1007.8	+4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	StCu	[illegible]	Ci	[illegible]	5
"	"	7h	1011.1	+4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3500	Cu	[illegible]	-	[illegible]	[illegible]
"	Dungeness	7h	1006.5	+8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	Cu	[illegible]	CiSt	[illegible]	[illegible]
19th	Portland Bill	13h	1013.9	+3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1500	St	[illegible]	ACu	[illegible]	[illegible]
"	Leafield	7h	1005.1	-3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1500	Nb	10	-	10	x
24th	Eskdalemuir	13h	964.9	-21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	StCu	10	-	10	x
"	"	7h	981.0	+4	WNW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2500	StCu	[illegible]	-	[illegible]	x
"	Blacksod	13h	978.3	+5	WSW	[illegible]	[illegible]	44	[illegible]	[illegible]	.	CuNb	[illegible]	-	[illegible]	x
"	"	18h	985.3	+3	WSW	[illegible]	c/PH	43	[illegible]	[illegible]	.	CuNb	[illegible]	-	[illegible]	9
"	"	1h	992.3	+4	WNW	[illegible]	[illegible]	47	[illegible]	[illegible]	.	CuNb	[illegible]	-	[illegible]	x
"	"	7h	1000.8	+1	WNW	[illegible]	[illegible]	43	[illegible]	[illegible]	.	CuNb	[illegible]	-	[illegible]	8
25th	Eskdalemuir	13h	987.5	+5	WNW	[illegible]	o/r	44	85	[illegible]	2500	Cu	9	-	9	x
"	"	18h	993.0	+5	WNW	[illegible]	bc/pr	42	75	[illegible]	2500	Cu	8	ACu	7	x
"	"	7h	975.5	-8	W'S	[illegible]	c	45	75	7	1500	Nb	8	-	8	x
26th	"	13h	972.4	-1	NW'W	[illegible]	bc/r	41	75	[illegible]	2500	Cu	6	ACu	7	x
"	"	18h	982.7	+12	NW	[illegible]	b	41	75	[illegible]	2500	Cu	1	-	1	x
"	"	7h	995.5	+6	NW'W	[illegible]	b	40	75	[illegible]	2500	Cu	1	-	1	x
27th	Tiree	7h	1003.4	+5	NNW	7	bc/pr	44	86	8	1500	CuNb	4	-	4	7

Summaries for the Past 24 Hours (continuation of the same rows, in printed order):

Weather 7h.-13h.	Weather 13h.-18h.	Weather 18h.-1h.	Weather 1h.-7h.	Temperature Max. Day 7h.-18h.	Min. Night 18h.-7h.	Min. on Grass	Rainfall† Day 7h.-18h.	Rainfall Night 18h.-7h.	Precipitation began.	Sun Hours
	bccr₀						3		9.00	
			bc	50	49	39		0.1	22.00	
ocqmq										
	oRddm						14		<08.00	
		cbcpq	cbcp	55	44	x		2	<21.00	0.0
	cqirq						5		<8.00	
	cqrRR		bcpq	58	50			11	<21.00	
	bc		bbcpc		39	36		0.1	5.30	1.3
bc	bp₀			49			Trace		16.30	
crbc										
		bcrlp₀	bc	54	50			Trace	24.00	
		bcbl	bbc	53	43			—	—	
bcc										
		cbcd	bccr		45	43		1	2200	
	oirdmc	cprbc	bcpre	51	38	36	26	3	<8.00 <21.00	0.0
pqc	phlq						8			
		phlqc	phq	55	42			4		
cqpr	bcpr₀			45			4		<8.00	
		bccpc	ocepr		40	39		8	22.00	1.5
prbccr	bccpcbc			45			10		<8.00	
		bbc	bcb		38	36		—	—	1.7
		PRq	prbcq	47	40	37		2	<21.00	2.2

‡ The barometric change is expressed in half millibars.