M.O FORM 2373

AIR MINISTRY.

METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

1ST OCTOBER TO 31ST DECEMBER, 1929.

METEOROLOGICAL STATIONS.

Scale 1:2 x 10^7

Nautical Miles

Statute Miles

Spitsbergen
Bear Island
Jan Mayn
Ingoy
Vardö
Archangel
Röst
Haparanda
Kuopio
Isafjord
Julianehaab
Reykjavik
Seydisfjord
Vestmanna
Thorshavn
Lerwick
Kinn
Utsire
Särna
Härnösand
Helsingfors
Dorpat
Karlstad
Stockholm
Wisby
The Scaw
Vilna
Stornoway
Wick
Nairn
Aberdeen
Tiree
Inchkeith
Malin Head
Glasgow
Eskdalemuir
Tynemouth
Donaghadee
Blacksod Point
Birr
Holyhead
Liverpool
Spurn Head
Yarmouth
Clacton
The Helder
Valentia
Ross
Roches Point
Pembroke
Kew
Dungeness
Flushing
Calais
Brussels
Portland Bill
Falmouth
Scilly
Guernsey
Havre
Paris
Brest
Tours
Rochfort
Baynne (Socoa)
Toulouse
Perpignan
Corunna
Madrid
Lisbon
Horta
P Delgada
Madeira
Gibraltar
Rabat
Oran
Mahon
Ajaccio
Marignane
Leghorn
Rome
Turin
Geneva
Lugano
Padua
Strasbourg
Munich
Dijon
Säntis
Zagreb
Belgrade
Sofia
Messina
Cagliari
Bizerta
Malta
Taranto
Copenhagen
Bornholm
Danzig
Stettin
Hamburg
Berlin
Fichtelberg
Prague
Breslau
Warsaw
Pinsk
Lemberg
Kosice
Biaavands

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

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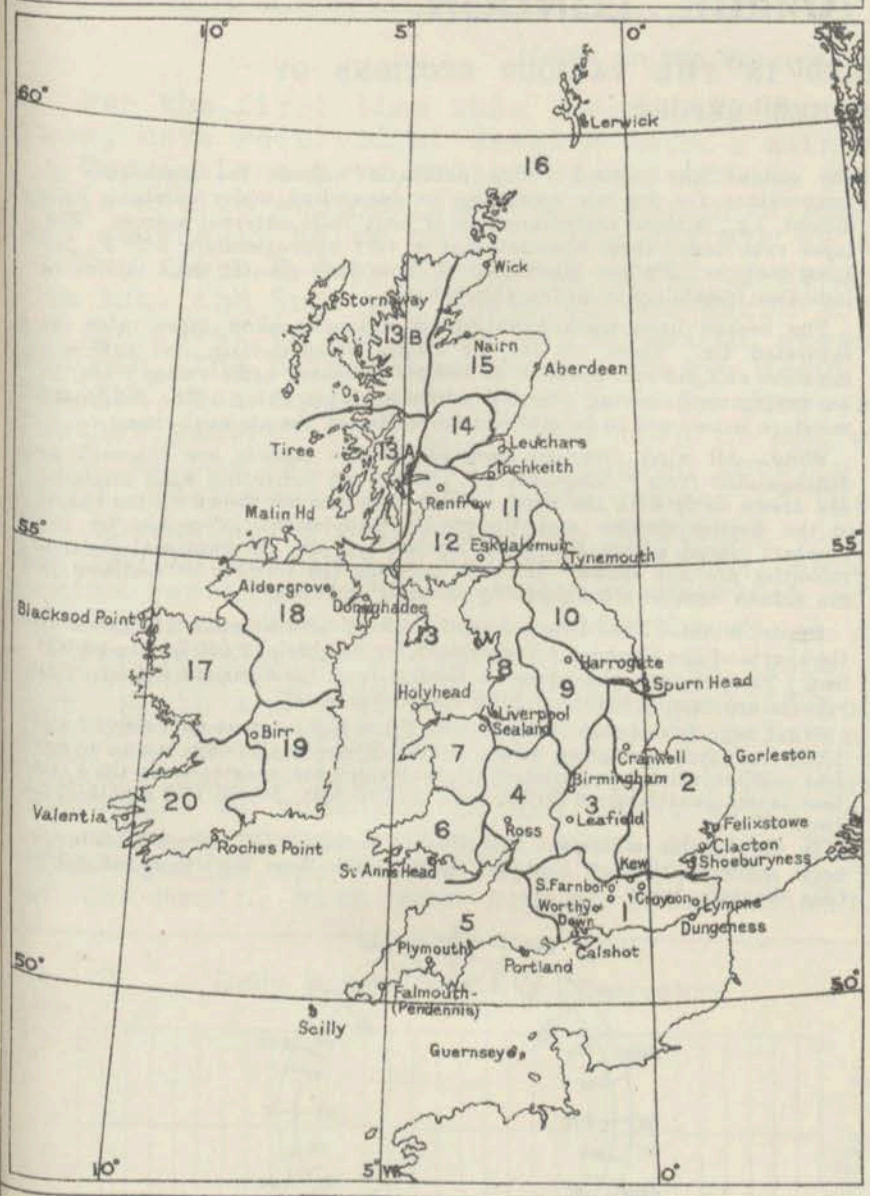
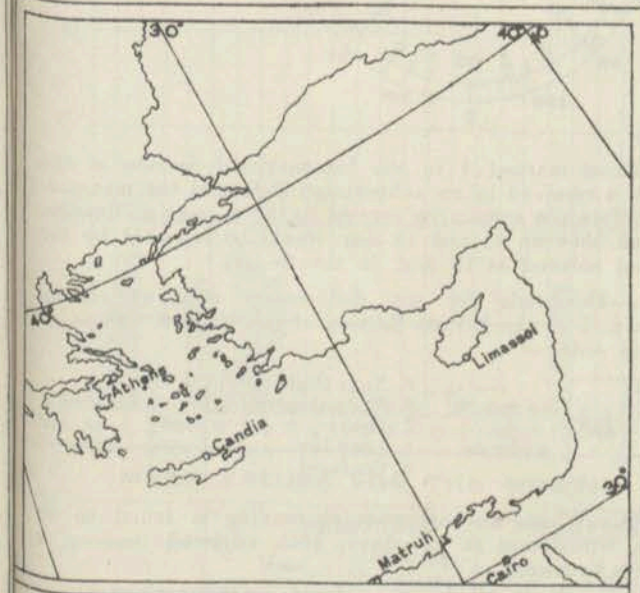
FORECAST DISTRICTS AND BRITISH STATIONS



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. jp 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.
   Westmorland.
   Cumberland.

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

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

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

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

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

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

14. *Mid. Scotland.*
    Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

AIR MINISTRY.

METEOROLOGICAL OFFICE, LONDON.

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

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

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

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

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

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

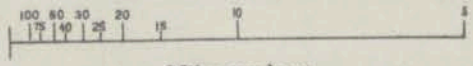
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section.

The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart in the Daily Weather Report the speed of the upper wind is about 12 m.p.h. in latitude 55°, with a temperature of 50° F. and a pressure of 1,015 mb; if, however, the isobars are ½ inch apart the corresponding speed is 24 m.p.h.

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

GEOSTROPHIC WIND SCALE FOR

4 mb isobars on 1 : 2 × 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.

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

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

$x = f - \cdot 444\,(t - t')$ for wet bulb readings above 32° F.
$x = f - \cdot 400\,(t - t')$ for wet bulb readings below 32° F.

where x is the vapour pressure in mb.;
f the saturation vapour pressure at the temperature of the wet bulb;
t the dry bulb temperature; and
t' „ wet „ „

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

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

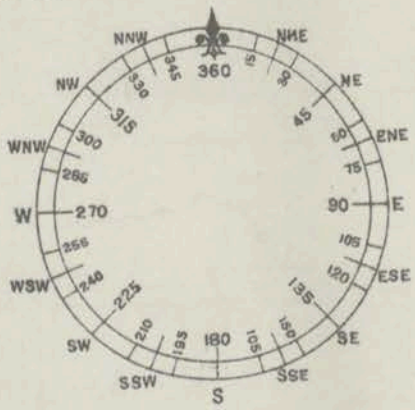
The broken lines marked Saturated Adiabatic show lapse rates for saturated air. These are for air masses which contain just sufficient moisture at 1,015 mb. pressure to become saturated after rising 1 km. in an environment having the dry adiabatic lapse rate. The condensed moisture is assumed to be retained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

Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Wind velocities are shown on the charts of the British Section and Upper Air Supplement in m.p.h. by the numbers placed within the small circles. In the International Section velocities are not shown. In both Sections the number of feathers on the arrows denotes wind force by Beaufort number.

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

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

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



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

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

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

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

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

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

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

AIR MINISTRY. No. 155.

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, 1929.

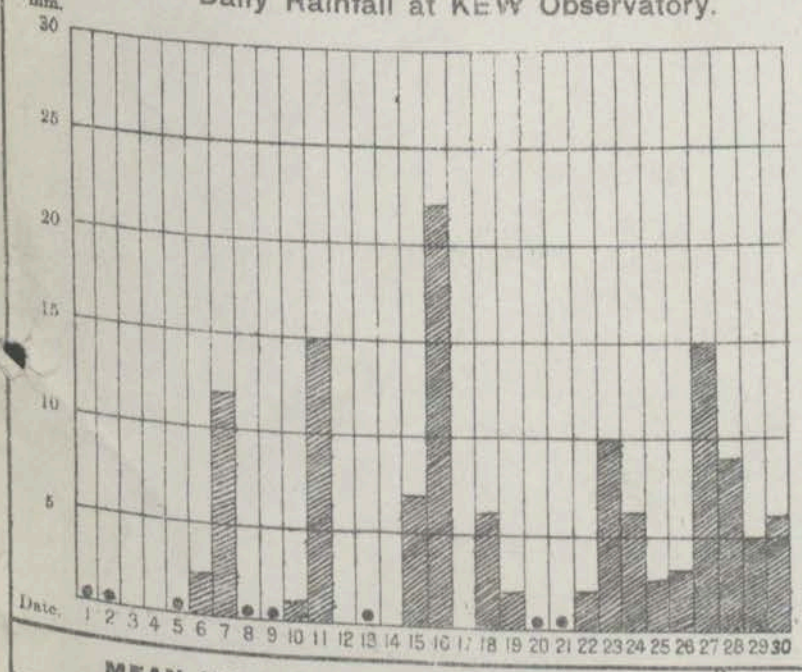
November 1929 has been one of the wettest Novembers on record in the southern half of the British Isles, and in places very long period records have been broken. At Ross-on-Wye 227 mm. constitutes the largest total fall for any month since rain records began in 1818, and 249 mm. at Valentia is a November record, at least since 1870.

Pressure was markedly below normal; for the first few days low pressure troughs gave appreciable rain in the West and North. Falls in the South and East were usually small at first and sunshine records often good, exceeding 8 hours locally on the 3rd and later, again on the 9th. Sharp ground frosts occurred at night from the 1st to the 4th. There were intervening periods of squally weather with hail showers and local thunder until the 10th. A vigorous secondary crossed the country from the southwest on the 11th - 12th causing a rather severe gale and giving heavy rain over a wide area, Falmouth reporting 51 mm. on the 11th. Showery and much colder weather supervened for a short period with frost at night. Snow fell in the North, and press photographs on the 14th indicated as much as 9 in. lying in parts of the Peak District. On the 15th and 18th widespread, persistent fog was responsible for low day temperatures, maxima failing to exceed 32°F. in E. England on the 15th.

Throughout the last fortnight pressure continued very low on the N.E. Atlantic. Vigorous disturbances moving east or northeast appeared off our S.W. coasts at frequent intervals bringing heavy rains to the whole of the southern half of the country, the 24 hour totals frequently exceeding 20 mm. Severe flooding occurred in the West. Considerably less rain fell, however, in the North. Some of the heaviest 24 hour falls reported were Eastbourne 47 mm. on the 15th., Pembroke 33 mm. on the 18th, Torquay 30 mm. on the 22nd, and St. Ives 51 mm. and 52 mm. on the 24th and 27th respectively. Gales were of frequent occurrence, especially in the Southwest, a gust velocity of 78 m p.h. being registered at Scilly on the 25th.

Sunshine was above normal in N. and E. Scotland, and also in parts of E. and S.E. England. Another feature was the persistence of mild weather, especially during the last fortnight

Daily Rainfall at KEW Observatory.



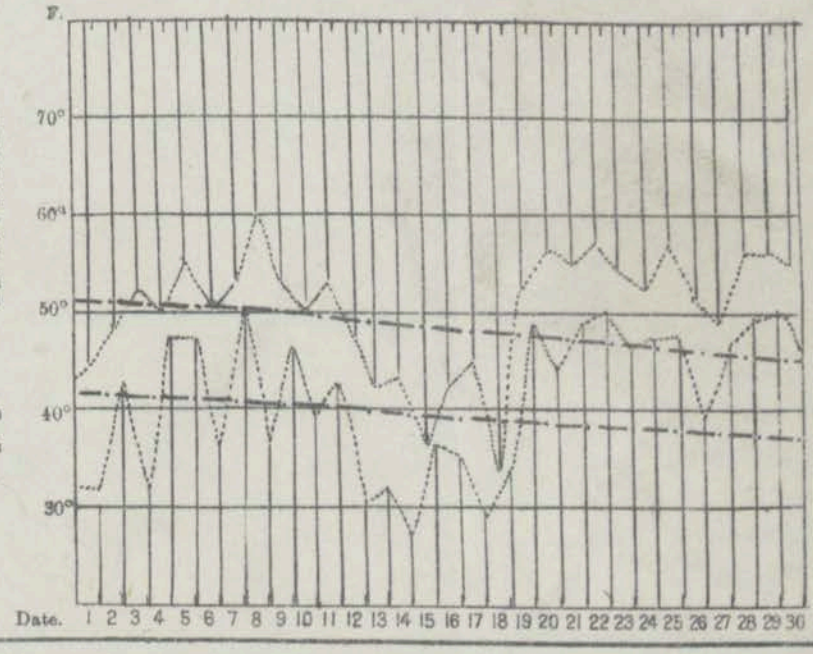
TEMPERATURE.

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 125 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	999.6	−10·2	42·8	+0·3
Valentia	1000·9	−12·1	48·2	+0·5
Kew	1007.4	−7·2	45·5	+1·2

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

WIND FREQUENCIES AT 7h.

Aberdeen	Valentia	Kew
1	0	3

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

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

Ps.2228/2010. We.28. D.8004. 915. 12/29.

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE,

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

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	44	24	43	16	44	5
850	4690	34	36	24	34	16	35	5
750	7950	26	27	24	27	11	25	5
650	11620	16	15	24	21	5	9	3
550	15,760	1	0	24	5	3	–	–

UPPER WINDS.

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

Station.	Height. Feet.	RENFREW. 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.	CATTEWATER. 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.	LYMPNE. 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	34	2	11	21	–	–	37	4	16	16	1	–	43	4	22	22	1	–
	5,000	19	1	4	12	2	–	11	1	6	3	–	1	15	1	8	4	2	–
	10,000	6	–	3	1	2	–	3	–	2	1	–	–	4	–	4	–	–	–
	15,000	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.

* 26 days only.

METEOROLOGICAL OFFICE: AIR MINISTRY, KINGSWAY, W.C.2.

RAINFALL, HUMIDITY AND LOW CLOUD, ...NOVEMBER..., 1929.

	SUNSHINE. Number of Days with duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.
								hours.	hours.	hours.	hours.
Stornoway ...	7	16	7	0	0	6·0	15	1278	+19	55	+12
Aberdeen ...	8	9	8	5	0	7·1	10	1410	+24	80	+25
♮Edinburgh (Inchkeith) ...	16	7	5	2	0	7·2	8	1561	*	50	*
♮Renfrew	10	16	4	0	0	4·7	13	1290	*	39	*
♮Eskdalemuir ...	16	8	6	0	0	4·8	13	1350	*	37	*
Dublin (Phœnix Park)	14	5	6	5	0	7·8	8	1537	+30	70	−1
Birr Castle ...	11	9	7	3	0	6·7	3	1389	+46	55	−9
Valentia (Cahirciveen)	9	16	4	1	0	7·1	17	1406	−39	47	−18
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*
Holyhead ...	12	10	6	2	0	6·7	3	1794	*	52	*
♮Liverpool (Bidston) ...	7	15	7	1	0	6·7	1	1689	+233	53	−6
♮Cranwell	10	7	9	4	0	7·0	1	1621	*	74	*
Gorleston ...	15	7	5	3	0	7·2	3, 9	1619	*	56	*
Ross-on-Wye ...	9	10	7	4	0	7·5	3	1740	*	72	*
♮Leafield	7	13	5	5	0	7·3	3	1783	*	73	*
London (Kew Obsy.)	10	8	9	3	0	7·5	9	1691	+216	66	+14
♮Croydon	9	11	6	4	0	8·0	9	1618	*	67	*
Shoeburyness ...	8	11	8	3	0	7·8	9	1864	*	69	*
♮Lympne	5	12	9	4	0	8·0	9	1923	*	81	*
♮Southampton (Calshot) ...	7	10	8	5	0	8·0	9	1933	*	85	*
Falmouth Observatory ...	7	13	6	4	0	7·2	1	1837	+78	71	−5

	RAINFALL. Number of days with amount.‡ 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months.	Difference from Average.	Total for Month‡	Difference from Average.	Days with Thunder.	Days with Snow or Sleet.
									mm.	mm.	mm.	mm.		
Stornoway ...	5	4	10	9	2	0	20	11	1150	−116	149	+1	0	2
Aberdeen ...	14	3	7	5	1	0	19	18	689	−59	90	+15	0	2
♮Edinburgh (Inchkeith) ...	13	7	6	4	0	0	11	25, 30	488	−66	67	+11	0	1
♮Renfrew	5	5	6	11	3	0	19	19	927	+2	161	+63	0	4
♮Eskdalemuir ...	3	3	10	6	6	2	42	11	1435	+6	278	+131	0	4
Dublin (Phœnix Park)	~~4~~ 5	~~6~~ 5	12	~~6~~ 5	2	0	25	15	~~646~~ 639	~~−59~~ −66	~~121~~ 114	~~+49~~ +42	0	*
Birr Castle ...	5	8	11	5	1	0	19	9	791	−38	101	+22	1	0
Valentia (Cahirciveen)	1	0	15	9	3	2	29	15	1412	−2	249	+110	1	1
Tynemouth ...	12	6	8	3	1	0	16	17	543	−78	75	+21	0	0
Holyhead ...	7	1	11	6	5	0	23	5	887	−1	182	+77	2	0
♮Liverpool (Bidston) ...	7	5	10	8	0	0	13	11	591	−118	110	+46	2	1
♮Cranwell	8	9	5	6	2	0	22	11, 28	454	−136	111	+64	0	2
Gorleston ...	9	7	8	5	1	0	16	11	450	−172	88	+27	0	0
Ross-on-Wye ...	10	3	1	9	5	2	27	24	657	−61	227	+163	0	0
♮Leafield	11	1	7	6	5	0	22	18	588	−106	178	+112	0	0
London (Kew Obsy.)	12	2	6	9	1	0	23	16	492	−114	125	+69	0	1
♮Croydon	11	1	6	10	2	0	24	16	562	−117	160	+91	0	0
Shoeburyness ...	12	4	5	8	1	0	19	16	418	−62	105	+53	1	0
♮Lympne	10	2	8	8	2	0	22	11	575	−149	144	+63	1	0
♮Southampton (Calshot) ...	10	3	4	8	4	1	29	15	575	−71	173	+106	1	0
Falmouth Observatory ...	5	1	9	9	0	6	51	11	1222	+115	339	+217	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	2	8	6	10	4	0	0	0
Renfrew... ...	2	3	11	11	3	0	0	0	0
Eskdalemuir ...	0	3	13	10	4	0	0	0	0
Valentia... ...	0	2	4	8	11	5	0	0	0
Ross on Wye ...	0	1	2	13	7	5	2	0	0
London ... ... (Kew Obsy.)...	0	0	6	11	10	3	0	0	0
Falmouth ...	2	3	7	11	6	1	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 ...	2	20	4	4	0	0	0	0	0	0
Renfrew... ...	0	0	27	1	1	0	1	0	0	0
Eskdalemuir ...	0	0	23	5	0	0	0	2	0	0
Valentia... ...	0	4	26	0	0	0	0	0	0	0
Ross on Wye ...	0	5	25	0	0	0	0	0	0	0
London ... ... (Kew Obsy.)...	0	18	11	1	0	0	0	0	0	0

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 1300 and 1800 reports (Hoar frost in 0100 and 0700 reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

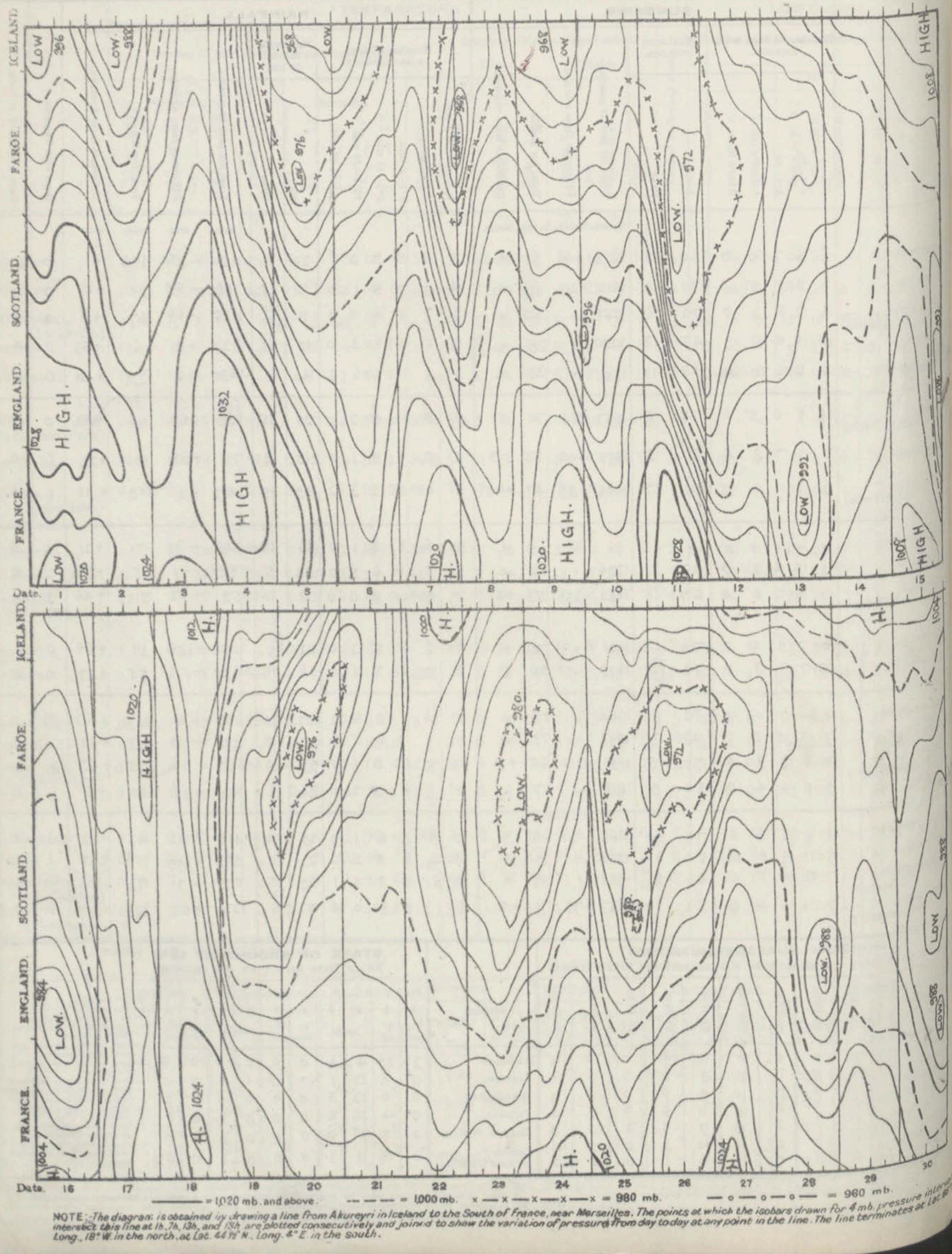
♮ The average sunshine for Liverpool and the average rainfall for the other stations marked ♮ have been computed from the records available for these several stations by reference to the nearest stations with long records.

‡ 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, 1929.

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



——— = 1020 mb. and above. – – – – = 1,000 mb. x — 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 Merseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 19h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 46° N., Long., 18° W. in the north, at Lat. 44½° N., Long. 4° E. in the south.

Re-port for | STA
1st. | Roches / Lymp / Guern / Eskda / Lymp / Se. Lve
2nd. | Edinbu / Birmin / Leafi / Lerwi / Renfr / Blacks / Holyh / Harro / Falme / Edinb / Croyd / Clacto / Chest / Ross-o / Westmi / S. Kens / Kew / Greenw
3rd. | Blacks / Birr / Valen / Pembr / Dunge / Birr / Spurn / Birr / Gorles / Croyd / Scilly / Gorles / Littleh / Birr / Donag / Portla / Ilkley / Barh / Holyh / Croyd / Valen / Birr / Holyh / Croy / Calsh / Donag / Clacto / Hamp / Spurn / Guern / Birr / Scilly / Wick / Birr / Reger / Kew / Lymp / Tiree / Birmi / Valen / Roch
4th
5th
6th
7th
8th
9th

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24816. FRIDAY, 1st NOVEMBER, 1929.

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

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	1026·9	-3	S	2	bc	46	75	8	1500	Stm	2	ASt	5	•
Stornoway	1023·4	-5	SSW	4	c	49	85	8	4000	Cu Nb	7	CiSt	9	•
Wick	1027·1	-2	S	3	bc	45	75	8	-	-	0	CiCu	4	•
Tiree	1021·5	-2	S	6	bc	49	85	8	1500	Stm	1	CiSt	6	•
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1029·7	-2	SSW	3	b	48	68	8	4000	Stm	1	Ci	1	1
Malin Head	1027·6	-2	S	4	bc+	50	85	8	5700	Stm	1	CiCu	7	•
Renfrew	1031·1	-3	-	0	b	35	97	3	7200	Cu	2	-	2	3
Edinburgh (Inchkeith)	1030·8	-1	S	2	bc	47	65	8	-	-	0	ACu	4	•
Leuchars	1030·7	-1	SSW	2	bc+	48	65	8	4000	Cu	1	CiCu	4	•
Eskdalemuir	1031·4	-1	SSE	2	bc	43	65	8	4000	Stm	4	Ci	5	2
Tynemouth	1031·4	+2	N	2	c	47	85	8	1500	Nb	8	-	8	•
Blacksod Point	1025·8	0	S	4	bc	52	85	8	•	Nb	10	-	10	•
Donaghadee	1030·6	0	SSW	2	b+	51	65	8	4000	Cu	2	-	2	•
Birr Castle	1029·7	-1	S	2	b	53	75	8	-	-	0	CiCu	1	•
Holyhead	1031·3	0	SE'E	1	b+	51	65	8	4000	Stm	1	Ci	2	•
Liverpool (Bidston)	1030·7	0	NE'E	2	bc	46	65	6	1500	St	4	-	4	2
Chester (Sealand)	1031·3	-1	E'S	1	b-	49	55	6	4000	Cu	2	Ci	2	•
Harrogate	1031·5	+1	N'W	1	c	46	75	7	4000	Stm	9	-	9	•
[illegible] Head	1030·0	+1	NNE	3	c	51	75	7	4000	Cu	4	ACu	8	•
[illegible]gham (Edgbaston)	1030·7	0	NNE	2	b	47	65	5	4000	Cu	2	-	2	2
Cawell	1030·3	0	N	3	bc	50	65	7	4000	Cu	1	ACu	2	1
Gorleston	1027·9	+3	N'E	4	bc	53	85	6	4000	Cu	5	-	5	•
Valentia (Cahirciveen)	1029·0	-1	SSE	4	c	53	85	8	1500	Stm	10	-	10	0
Roches Point	1030·3	-1	SW	2	bc	56	75	8	4000	Stm	4	-	4	•
Pembroke (St. Ann's H.)	1030·6	-1	E	1	b	49	75	8	-	-	0	-	0	•
Ross-on-Wye	1030·0	+1	N'E	2	b-	48	65	6	4000	Cu	2	-	2	1
Leafield	1029·2	+2	N'E	3	b	48	65	7	5700	Cu	1	-	1	0
Winchester (Worthy Dn.)	1028·1	0	N'E	4	b	50	75	7	-	-	0	-	0	1
S. Farnborough	1028·2	0	NNE	4	bc+	52	65	7	2500	Stm	6	-	6	0
London (Kew Obsy.)	1028·9	0	NNE	3	c	51	65	6	2500	Cu	1	ACu	9	1
Croydon	1027·9	0	NNE	3	c/m	51	75	5	4000	Stm	9	-	9	1
Shoeburyness	1027·5	+1	NE	4	b	54	75	8	4000	Cu	1	ACu	2	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1027·4	+2	N	4	bc	54	75	8	4000	Cu	6	-	6	0
Lympne	1025·9	+1	N'W	5	cr	50	85	7	1500	Nb	7	ASt	8	1
Scilly (St. Mary's)	1030·7	+1	ENE	2	b	52	65	8	4000	Cu	2	-	2	•
Falmouth (Pendennis)	1030·8	+1	ENE	4	b	50	65	8	4000	Cu	2	-	2	•
[illegible]mouth (Mt. Batten)	1029·2	-1	NE	3	b	51	55	9	4000	Cu	2	-	2	2
[illegible]land Bill	1027·6	0	N	4	b-	52	65	8	2500	Stm	2	-	2	•
Southampton (Calshot)	1028·1	-1	N'E	4	b-	52	65	7	4000	Stm	1	-	1	0
Dun[illegible]	1026·1	+1	NE	4	bcr	51	92	8	2500	Cu Nb	5	CCu	7	•
Guernsey (St. Peter Port)	1028·0	0	N	3	c	51	85	7	4000	Stm	10	-	10	•

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

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	1024·0	-3	S'E	3	bc	47	75	8	1500	Stm	3	ASt	6	•
Stornoway	1020·4	-3	S	7	c	49	85	8	2500	Nb	10	-	10	•
Wick	1024·0	-4	SSW	4	bc	47	75	8	2500	Stm	6	ASt	10	•
Tiree	1019·4	-2	S	6	c	50	85	7	1500	St	2	ASt	9	4
Nairn	1024·2	•	S	3	bc+	42	75	8	2500	Cu	7	-	7	•
Aberdeen	1028·1	-1	S	3	b	42	75	6	-	-	0	Ci	1	1
Malin Head	1025·8	-1	S	5	c	50	85	7	5700	Stm	9	-	9	3
Renfrew	1029·7	0	S	5	b	34	92	7	5700	Stm	1	Ci	2	•
Edinburgh (Inchkeith)	1030·2	-1	SSW	2	b	43	75	7	800	St	2	Ci	2	0
Leuchars	1029·4	-1	SW	2	b	34	85	7	2500	St	1	Ci	2	•
Eskdalemuir	1030·4	0	-	0	b	32	85	7	-	-	0	-	0	•
Tynemouth	1031·2	0	WSW	2	b	46	75	7	1500	Nb	10	-	10	2
Blacksod Point	1024·8	0	S	5	bc	52	97	7	•	Nb	10	-	10	6
Donaghadee	1029·2	-1	SSW	2	b	44	85	8	4000	Cu	2	-	2	•
Birr Castle	1028·7	-1	S	2	c+	48	85	7	4000	Stm	1	CiSt	9	•
Holyhead	1030·6	0	-	0	b	44	75	5	-	-	0	-	0	•
Liverpool (Bidston)	1031·2	0	S	3	bc-	43	75	5	1500	St	1	-	1	•
Chester (Sealand)	1030·9	0	ESE	1	mmb	35	92	4	-	-	0	-	0	•
Harrogate	1032·0	0	-	0	b	37	85	7	-	-	0	ACu	1	•
[illegible] Head	1030·2	0	NE'E	2	b-	45	85	7	-	-	0	-	0	4
[illegible]gham (Edgbaston)	1031·1	+1	NE	2	bc+	44	75	3	-	-	0	-	0	•
Cawell	1031·3	+1	NNE	1	b-	40	85	6	2500	Stm	1	-	1	•
Gorleston	1029·1	+2	NNE	3	bc	50	85	7	4000	Cu	4	-	4	0
Valentia (Cahirciveen)	1028·4	0	S'E	3	c	52	85	8	1500	Str	8	-	8	3
Roches Point	1029·5	-1	SW	3	c	53 43	85	8	2500	Cu Nb	8	-	8	4
Pembroke (St. Ann's H.)	1030·2	0	E	1	b	46	85	8	-	-	0	-	0	0
Ross-on-Wye	1030·9	+1	-	0	mmb	40	85	4	-	-	0	-	0	•
Leafield	1030·5	+1	N'E	2	bc-	44	75	7	4000	Stm	7	-	7	•
Winchester (Worthy Dn.)	1029·7	+3	N	2	b	42	92	7	5700	Stm	1	-	1	•
S. Farnborough	1029·4	+3	N	2	b	45	85	7	2500	Stm	1	-	1	•
London (Kew Obsy.)	1030·1	+3	N	3	bc	48	75	7	-	-	0	ACu	1	•
Croydon	1029·1	+2	NNE	3	mmbc	49	75	4	4000	Stm	6	-	6	•
Shoeburyness	1029·1	+2	NW	2	bc	46	92	8	4000	Stm	3	-	3	•
Clacton-on-Sea	1028·7	+3	NNW	3	bc	49	85	7	4000	Cu	3	-	3	2
Felixstowe	1029·4	+3	N'E	3	bc	48	92	6	5700	Stm	5	-	5	•
Lympne	1027·6	+3	NW	3	c/bc	47	92	78	1500	Stm	8	-	8	1
Scilly (St. Mary's)	1030·4	-1	NE	2	b	44	75	8	4000	Cu	2	-	2	1
Falmouth (Pendennis)	1030·5	0	ENE	2	bc+	48	65	8	4000	Cu	2	CiSt	4	0
[illegible]mouth (Mt. Batten)	1030·1	+2	NE	3	b	46	75	8	4000	Cu	2	-	2	3
[illegible]land Bill	1028·7	+2	NNE	3	b	48	75	7	-	-	0	-	0	0
Southampton (Calshot)	1029·6	+3	N	4	b	48	75	7	-	-	0	-	0	3
Dun[illegible]	1027·9	+3	NNE	2	bc	49	92	8	2500	Cu	4	-	4	0
Guernsey (St. Peter Port)	1029·0	+2	NNE	3	bc	52	85	6	4000	Stm	6/10	-	10	3

LONDON OBSERVATIONS

Height above M.S.L. in feet.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm. Day.	Rainfall. mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 21h. G.M.T. %	Visibility. 0-9
		24 HOURS ENDED 9h.			YESTERDAY.						YESTERDAY.	TO-DAY.	
Kew	18	cm,	c2, bc	6m, fFq	53	32	26	-	Tr	~~2·3~~ 4	*	*	0
Croydon	244	cm, m	c2, cbc2	bfc, fm	51	35	30	-	Tr	0·1	*	*	0
Greenwich (Royal Obsy.)	149	c	c	cb, cF	53	36	26	-	Tr	1·9	70	100	1
City (Bunhill Row)	99	*	*	*	*	*	*	*	*	2·2	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	37	31	-	-	2·0	79	91	*
Regent's Pk. (Botanic Gdns).	163	*	*	*	*	*	*	*	*	3·7	*	*	*
Camden Square	110	bc	cbc	*	53	37	*	-	-	*	*	98	*
Kensington Palace	80	bbc	bc,	*	53	34	27	-	-	*	(At 18h. 77)	93	*
Hampstead Observatory	450	«	«	*	51	35	30	-	0·1	6·4	*	89	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
0·6	22h 31st	<0·3	2 - 5h 1st

Kew Observatory

Max.	Time.	Min.	Time.
0·3	23h 31st	0·1	12h 31st

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposures.	Record. h. m.	Record. %
Polaris	h. m. 12·30	8·36	69
δ Ursae Minoris	12·30	6·17	50

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 12h. 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 + 2nd November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.51	11·37	16·22
	6.53	11·37	16·20
Greenwich	6·54	11.44	16·32
	6·56	11·44	16·30
Wick	7·29	11.56	16.22
	7·31	11.56	16.20
Valentia	7·37	12.25	17.12
	7·38	12·25	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 saunder.
u ugly, threatening sky.s
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 "sandus" 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
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.

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	5½ „
7. Good.	11 „
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.

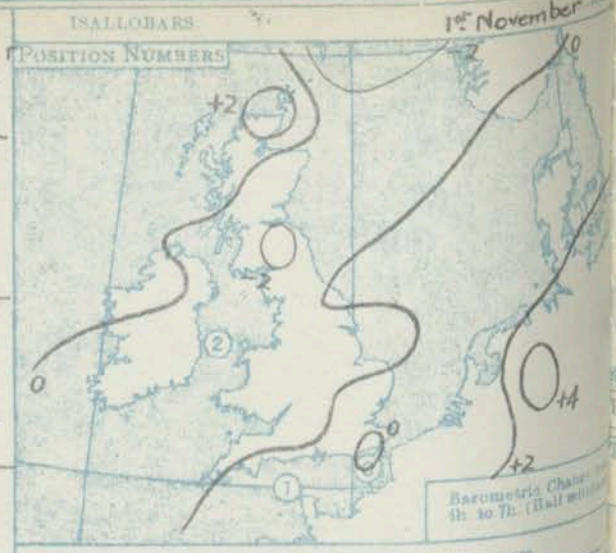
M.O. Form 2370.

Page

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 31st	18h.-18h. 31st	18h. 31st to 1h. 1st	1h.-7h. 1st	TEMPERATURE. MAX. Day 7h.-18h.	MIN. Night 18h.-7h.	MIN. on Grass	RAINFALL† Day 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	SUN 31st Hours.
Lerwick	bc	bc	bccpr$_c$	cpr$_c$	47	46	.	-	-	0·2	24.00	2·3
Stornoway	c	b	r-d	r-d	49	48	.	Tr 0.1	15.30	3	<21.00	0·1
Wick	b-bc	c	cirrr	crrc	47	44	.	-	-	7	<21.00	.
Tiree	bc	bcc	oR$_c$	cr$_c$R	50	48	46	-	-	7	<21.00	5·0
Nairn	bc	bc	bcc	cp	45	41	.	-	-	0·1	5.30	5·5
Aberdeen	bcbmb	bbz$_o$	b$_c$c	c	48	39	36	-	-	-	-	6·4
Kalin Head	bc	bcc	bp$_o$cq	cir	51	47	.	-	-	1	<21.00	6·4
Renfrew	bcfjfx	bfmbx	bxbcc	cc$_c$r$_c$	46	32	25	-	-	Tr	6.30	2·3
Edinburgh(Inchkeith)	cm$_o$m$_o$bc	bcb	bbc	bcc	49	40	31	-	-	-	-	7·0
Leuchars	cbcbbc	bcbcb	bwbbc	ccm$_o$	49	31	23	-	-	-	-	6·1
Eskdalemuir	cbc	bcbx	bxbcx	om$_o$g	45	26	19	-	-	-	-	4·4
Tynemouth	c	co	obcff	bcmm	49	34	30	-	-	-	-	.
Blacksod Point ...	cr	cr	dd	dd	53	51	.	05	.	8	.	.
Donaghadee	b	b	bbc	bcc	52	43	.	-	-	-	-	.
Birr Castle	b	bbc	c	coir$_c$	54	45	39	-	-	Tr	5.30	7·6
Holyhead	bbcb	b	bm$_o$w	bm$_o$bc	52	38	31	-	-	-	-	6·9
Liverpool (Bidston) ...	bbcm$_o$	bcmm$_o$	bcbx	bbxm$_o$	46	32	30	-	-	-	-	5·6
Chester (Sealand) ...	bcmz$_o$y	bz$_o$ym	bmx	bmx	50	24	19	-	-	-	-	4·8
Harrogate	c	cb	b	bx	46	32	24	-	-	-	-	0·3
Spurn Head	bcc	cbcb	bbc	bcw	52	42	.	-	-	Tr	-	4·5
Birmingham (Edgbaston)	mbbc	bm	bff	bfmx	48	33	16	-	-	-	-	4·7
Cranwell	cm$_o$bc	cbc	bm$_o$x	bfx	51	28	25	-	-	-	-	3·4
Gorleston	bcq	bcq br$_c$	bc	bc	54	44	43	Tr	14.30	-	-	4·6
Valentia(Cahirciveen)	c	c	c	cor$_c$r	53	51	48	-	-	1	3.30	0·0
Roches Point	bc	bcc	c	c	56	52	.	-	-	-	-	.
Pembroke(St.Ann's H.)	bz$_o$	bz$_o$	bz$_o$e	bm$_o$e	50	39	.	-	-	Tr	-	8·9
Ross-on-Wye	bbcz$_o$	bzbm	bfx	bfxofx	49	26	19	-	-	-	-	7·4
Leafield	b	bbcc	b	bx	49	29	23	-	-	-	-	6·3
Winchester (Worthy Dn)	b	bbcb	bbx	bxmf	51	30	21	-	-	-	-	7·8
S. Farnborough ...	bbcm$_o$	bcb	bbmx	bmxoffx	53	30	22	-	-	Tr	-	7·2
London (Kew Obsy.) ...	cm$_o$	czbc	bm$_o$	oFF$_x$	53	32	25	-	-	Tr	-	3·4
Croydon	cm$_o$m	cz$_o$cbc	bfmf	bfoFeFe	51	35	30	-	-	Tr	-	0·1
Shoeburyness	bc	bcc	bc	bccpr$_c$	55	39	37	-	-	Tr	5.30	5·6
Clacton-on-Sea ...	bc	bc	bbccpc	cbc	54	42	40	-	-	0·2	12.00	6·7
Felixstowe	bc	bc	bcz$_o$	bcz$_o$w	55	42	38	-	-	Tr	-	5·8
Lympne	bccpr	cpr$_o$	cbcpr$_c$c	bcpr$_c$orrc	52	39	31	1	11.00	2	<21.00	3·8
Scilly (St. Mary's) ...	bcb	b	b	b	52	42	.	-	-	-	-	8·6
Falmouth (Pendennis)	b	byc	bc	bc	50	39	.	-	-	-	-	9·1
Plymouth(Mt.Batten)	bbc	bvy	b	b$_c$fex	54	34	30	-	-	-	-	7·9
Portland Bill	bcb	b	b	bbc	53	42	.	-	-	-	-	.
Southampton(Calshot)	bm$_o$	b-bc	bwm$_o$	bwm$_o$	53	35	32	-	-	-	-	8·4
Dungeness	bcbr	bcbrbc	bcrbc	bcrprbcc	53	41	.	1	<8.00	1	<21.00	.
Guernsey	oo	occ	cbcbc	bcc	52	49	39	-	-	-	-	0·7

† For code see page 1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	31st 10h	Hibernia	SE	1	bc	50	54
3	1st 2h	Arundel	E	4	c+	50	54

GENERAL INFERENCE.

An anticyclone over the Baltic extends to England; and a trough of low pressure, associated with a large depression centred near Greenland, is located west of Ireland. Mainly fair weather, with local night frost and early morning fog, is probable over most of England. In Ireland and North and West Scotland conditions will be unsettled and mild, though a lower temperature is probable tomorrow.

Friday, 1st. November, 1929.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind northeasterly or variable, light or moderate; fair; moderate or rather low day temperature; ground frost locally at night; fog in early morning.	Mainly fair in Southeast; prob unsettled and somewhat col in the North and West.
4. W. Midlands 5. S.W. England 6. South Wales	Wind variable, becoming southerly or southwesterly, moderate; fair; moderate day temperature; perhaps local frost at night and fog in early morning.	
7. North Wales 8. N.W. England	Wind south or southwest, moderate; mainly cloudy, perhaps slight rain; moderate day temperature.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind south or southwest, moderate; mainly cloudy; moderate day temperature; perhaps local fog in early morning.	
12. S.W. Scotland & Isle of Man	As 7, 8.	
13. [A. W.Scotland B. N.W.Scotland	Wind south or southwest, fresh or strong, veering; cloudy; occasional rain; mild, becoming colder.	
15. N.E.Scotland 16. Orkneys and Shetlands	Wind south or southwest, moderate or fresh; mainly cloudy; perhaps occasional rain; rather mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind south or southwest, moderate or fresh, probably veering; mainly cloudy; occasional rain; mild at first, colder later.	

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

† Trace = rain has fallen, but amount less than

SYNOPTIC CHART FOR 7h. FRIDAY, 1ST NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles. 100 0 100 200

Statute Miles. 100 0 100 200

LOW
21 37 Cloudy
988
Barometric
21 37 Fine +0
990
0 43 Fine +1
992
994
35 39 Heavy Showers +1
Changes
996
998
1000
1002
Slight
1004
1006
1008
1010
1012
1014
1016
1018
MINNEDOSA
21 47
Sea 48
Fine
1020
1022
1024
1026
HIGH
HOMERIC
10 55
Sea 55
O'cast
CARMANIA
15 59
Sea 57
Fine
27 46 Rain -0
27 52 Rain
21 50 Cloudy
10 45 Cloudy
Barometric
21 45 Cloudy
5 46 Cloudy
5 34 Mist
10 55 Heavy Drizzle
Changes
2 50 Rain
5 49 Fine
5 43 Fine
21 57 Rain
2 33 Fine
10 49 Fine
2 42 Fine
0 33 Thick Fog
Slight
10 44 Fine
0 42 Fine
10 51 Fine
48 5 Fine
5 46 Fine
46 5 Cloudy
5 37 Fog
5 36 Cloudy
10 41 Fine
41 5 Cloudy
37 2 Fine
10 41 O'cast
41 5 Cloudy
Slowly
37 5 Fine
LOW
45 42 Rain
Falling
Barometer
50 46 Cloudy
10 49 Cloudy
Slowly
27 49 Cloudy
HIGH
37 5 Fine
1032
1030
5 37 Cloudy
1028
5 39 Cloudy
Barometer
1026
41 5 Cloudy
1024
Rising
1022
1020
1018
1016
1014
1012
LOW
37 5 Fine

EXPLANATION.

BAROMETER. Isobars are drawn for intervals of two millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS.
○ clear sky. ◑ sky less than ½ clouded. ● sky ½ to ⅞ clouded. ◑ sky more than ⅞ clouded. ⊗ overcast sky. ≡ rain falling. ∴ snow. ▲ hail. ≡ fog. ≡ mist. T thunder. K thunderstorm.

SEA DISTURBANCE. ~ Rough. ≈ Very Rough.

ICELAND barometric change from 4 h. to 7 h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. FRIDAY, 1st NOVEMBER, 1929. No. 305

STATIONS.	Height Above M.S.L. in Feet.	Observations at 1h. G.M.T. 1st												Observations at 7h. G.M.T. 1st											
		Barom. at M.S.L.	Change in 3 Hours	Wind. Direc.	Wind. Force	Weather.	Temp.	Humidity.	Visibility.	Cloud. Low. Height	Low. Form	Low. Amt.	Upper Form.	Total Amt.	Barom. at M.S.L.	Change in 3 Hours	Wind. Direc.	Wind. Force	Weather.	Temp.	Humidity.	Visibility.	Cloud. Low. Height	Low. Form	Low. Amt.	Upper Form.	Total Amt.
		mb.			0-12		°F.	%	0-6	Feet		0-10		0-10	mb.			0-12		°F.	%	0-6	Feet		0-10		0-10
Lerwick	54	1021·1	-2	S'W	4	cjp	48	75	7	1500	CuNb	4	A.St	8	1018·1	-3	S'W	3	cjp	49	85	7	1500	CuNb	8	ASt	10
Stornoway	30	1019·0	-2	SW	7	odd	*	*	5	*	*	*	*	10	1017·3	+1	SSW	6	or.c.	52	97	6	1500	Nb	10	-	10
Wick	81	1021·5	-2	SSW	5	orr	46	92	8	1500	Nb	10	-	10	1018·8	+2	SW	5	c	50	85	8	1500	Nb	4	ASt	10
Tiree	33	*	*	*	*	*	*	*	*	*	*	*	*	*	1021·1	0	S'W	5	orr	51	97	5	800	Nb	9	ASt	8
Nairn	69	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·2	0	W	1	c+	51	75	8	2500	CuNb	6	ACu	9
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	1022·9	-1	SSW	3	c	45	85	7	4000	StCu	6	ACu	9
Malin Head	81	1023·2	-1	S	6	c	51	92	7	5700	StCu	8	ACu	9	1022·6	0	S	5	c|r	49	97	7	1500	St	8	ACu	9
Renfrew	56	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·0	-1	S	2	c|r	46	92	7	2500	St	4	ASt	10
Edinburgh (Inchkeith)	100	1027·7	-1	SW	1	bc	43	75	8	-	-	0	ASt	4	1025·5	-2	WSW	2	c	46	85	7	800	St	5	ACu	9
Lanchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·6	0	WSW	3	c	45	85	6	4000	StCu	4	ASt	5
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1024·[illegible]	-1	SSW	2	o	38	92	5	800	St	10	-	10
Tynemouth	67	1031·2	-1	WSW	2	bc|f	36	97	6	800	St	4	-	4	1029·8	-1	WSW	2	mmbc	34	92	4	800	St	4	-	10
Blacksod Point ...	18	1022·9	-1	S	3	cDD	53	92	6	*	Nb	10	-	10	1022·5	0	S	3	cDD	55	92	7	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·0	-1	SSW	2	c	48	85	7	4000	StCu	8	-	8
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·5	-1	S	1	or.+	50	92	7	2500	Nb	10	-	10
Holyhead	28	1029·5	-2	S'E	1	b	43	85	6	4000	StCu	1	-	1	1028·1	-1	SW'S	2	bc	45	75	8	2500	St	7	-	7
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·7	-1	SSE	3	bc	33	75	6	1500	St	2	CuSt	3
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·9	-1	SE'S	3	mmb	25	97	4	-	-	0	Cu	2
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·3	0	SSW	1	b	34	92	5	2500	St	1	-	1
Spurn Head	39	1030·3	0	N	3	bc	43	92	7	-	-	0	ASt	3	1029·8	0	NNW	2	bc	43	97	6	5700	StCu	2	Cu	3
Birmingham (Edgbaston)	685	*	*	*	*	*	*	*	*	*	*	*	*	*	1031·2	0	SW	1	b	33	97	6	-	-	0	Cu	1
Cranwell	298	1031·4	0	W'N	1	b	32	97	6	4000	StCu	1	-	1	1031·0	0	W'N	1	ffb	30	97	2	4000	StCu	1	-	5
Gorleston	14	1029·5	0	ENE	2	bc	49	85	7	4000	StCu	4	-	4	1029·6	0	NE	3	bc	49	75	7	4000	Cu	5	-	10
Valentia (Cahirciveen) P	30	1027·2	0	S	3	c	53	75	8	*	-	0	A.St	10	1025·9	-1	SSE	5	or.c.	52	92	5	800	St	10	-	8
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1027·7	-1	SW	3	c	53	92	8	2500	CuNb	8	-	8
Pembroke (St. Ann's H.)	150	1030·4	0	ENE	1	b	40	97	6	-	-	0	-	0	1028·9	-1	NE	1	b+	42	87	6	4000	Cu	1	CuCu	2
Ross-on-Wye	295	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·9	-1	NW	1	FFO	27	97	1	KISO	St	10	-	10
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·2	-1	NE'N	1	b	32	97	7	-	-	0	CuSt	1
Winchester (Worthy Down)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·2	0	N	1	ffc	33	97	3	450	St	8	-	8
S. Farnborough ...	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·9	0	-	0	ffo	31	97	2	<150	St	10	-	10
London (Kew Obsy.) ...	18	*	*	*	*	*	39	*	*	*	*	*	*	*	1030·1	0	-	0	FFo	33	97	1	<150	St	10	-	10
Croydon	344	1029·9	0	WNW	1	fb+	37	97	3	-	-	0	-	0	1029·8	0	-	0	FFo	37	97	0	<150	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·8	0	NW	2	c|pCu	40	97	7	4000	StCu	8	-	8
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·7	0	N	3	bc	43	92	7	4000	Cu	5	-	5
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·2	0	NNW	1	bc+	42	92	6	1500	CuNb	3	ACu	8
Lympne	350	1028·5	-1	N'W	2	bc-	41	97	8	1500	St	7	-	7	1028·4	+1	NNE	1	c-	40	97	7	1500	St	8	-	8
Scilly (St. Mary's) ...	168	1031·0	0	-	0	b	43	85	8	-	-	0	-	0	1029·9	-1	-	0	b	42	85	8	4000	Cu	1	-	1
Falmouth (Pendennis)	200	1031·1	-1	NNE	2	bc	41	92	7	4000	StCu	4	-	4	1030·3	0	NNE	2	bc	39	97	7	4000	StCu	2	Cu	4
Plymouth (Mt. Batten)	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·7	0	NE	1	FFc	34	97	1	<150	St	9	Cu	9
Portland Bill	33	1029·0	0	NE	3	b	44	85	7	-	-	0	-	0	1028·0	0	NE	3	bc	44	92	7	2500	StCu	3	-	3
Southampton (Calshot)	10	1030·0	-1	NNW	3	b	43	92	6	-	-	0	-	0	1029·9	0	NW	2	bc+	36	92	5	800	St	3	-	3
Dungeness	20	1028·5	0	E	1	bcr	47	85	8	2500	CuNb	4	-	4	1029·0	+1	E	1	c+	44	85	8	1500	StCu	5	ASt	9
Guernsey (St. Peter Port)	173	1029·0	-2	N	2	bc	50	75	6	4000	StCu	4	-	4	1028·9	0	NNE	3	bc+	51	75	7	2500	StCu	6	-	6

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

STATIONS	WEATHER. Forenoon.	WEATHER. Afternoon.	TEMPERATURES. Min. 9h. 30th to 9h. 31st	TEMPERATURES. Max. 9h. -17h. 31st	RAINFALL.† Night 17h.-9h. 30th-31st	RAINFALL.† Day 9h.-17h. 31st	SUNSHINE. Sunrise to Sunset. 31st
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	40	47	-	-	2·0
Douglas (I. o. M.) ...	bc	bc	38	54	-	-	6·4
Llandudno ...	b	b	35	51	-	-	8·2
Colwyn Bay ...	b	b	36	51	-	-	8·0
Rhyl	b	b	31	50	-	-	7·2
Wallasey	bc|b	bbc+	37	48	-	-	6·1
Southport	b|bc|b	b|bc|c	*34	48	-	-	6·3
Blackpool	c|bc	b|bcc	35	51	-	-	6·7
Morecambe ...	bc	bc	38	48	-	-	6·2
Ilkley	c|bc	c	35	47	-	-	0·3
Cleethorpes	c|b	c|b	45	52	-	-	3·0
Mablethorpe. ...	Ccv|bc	bc|bv	46	51	0·3	-	4·7
Skegness	c	c|b	45	51	Trace	-	4·5
Aberystwyth ...	cx|bc	bc	34	52	-	-	9·0
Bath	b	b	37	52	-	-	8·3
Cheltenham ...	bm.|bc	b|bm	36	51	-	-	6·9
Leamington Spa ...	bc	bc	36	50	-	-	5·2
Lowestoft	r|bc	c|d|b	45	53	7	0·1	6·2
Harwich & Dovercourt	r|bc	bc	45	54	3	-	6·4
Maldon	b	bc	43	54	-	-	6·6
Ilfracombe	b	b	45	51	-	-	7·0
Bude	wx|b	b	34	51	-	-	5·[illegible]
St. Ives	b	b	45	56	-	-	[illegible]
Penzance	b	b	39	53	-	-	[illegible]
Paignton	b|wm	bmbm	37	54	-	-	[illegible]
Torquay	wb|b	bm	38	53	-	-	[illegible]
Jersey	c|bcc	bcc	46	54	-	-	[illegible]
Weymouth	b	b	39	53	Trace	-	[illegible]
Bournemouth ...	b	b	37	53	-	-	[illegible]
Ventnor ...	bz	bz	39	53	-	-	[illegible]
Portsmouth (S'thsea)	b	b	40	54	-	-	[illegible]
Bognor Regis ...	b	b	41	53	-	-	[illegible]
Littlehampton ...	bc|b	b	39	53	-	-	[illegible]
Worthing	bc	bc	41	54	-	-	[illegible]
Brighton	b	bcm	41	55	-	-	[illegible]
Eastbourne	bbc	b	43	56	0·1	-	[illegible]
Hastings	bbc|b	bcc|bc	43	55	-	-	[illegible]
Folkestone	orc|bc	o|irc	44	53	12	1	[illegible]
Dover	c|bc|b	bc	44	54	21	-	[illegible]
Deal	c|bc|or	r|erc	45	54	17	-	[illegible]
Tunbridge Wells ...	b	b|bcc	41	52	-	-	[illegible]
Ramsgate	bc|b	bbc	46	54	9	2	[illegible]
Margate	bc|bdi	bc	47	53	7	1	[illegible]
Southend	bmb	bc|cm	42	54	-	-	[illegible]

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,817 Saturday 2nd November 1929.

Observations at 13h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1019.0	+1	WSW	3	or b	51	97	7	1500	Nb	10	-	10	•
Stornoway	1021.7	+2	WSW	2	bc-	53	85	8	4000	CuNb	6	-	6	•
Wick	1021.4	+2	WSW	2	c	53	92	8	1500	StCu	6	ASt	10	•
Tiree	1023.6	+2	NW'W	2	bc	53	92	8	2500	StCu	3	ACu	7	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1023.0	0	SSW	3	cr	49	85	6	2500	Nb	5	ASt	10	1
Malin Head	1024.7	+2	SSW	2	c	52	97	7	1500	StCu	9	-	9	•
Renfrew	1025.7	0	SW	2	c/r	50	92	6	1500	St	9	ASt	10	2
Edinburgh (Inchkeith)	1025.0	-1	SW	2	c	50	85	4	450	St	10	-	10	•
Leuchars	1025.0	-1	SW	3	c	49	85	5	800	St	8	ASt	10	1
Eskdalemuir	1027.5	-2	SW	2	o	42	92	5	800	St	10	-	10	2
Tynemouth	1027.8	-1	WSW	2	mmbc	47	75	4	1500	St	4	-	10	•
Blacksod Point	1024.6	+2	-	0	c	53	97	8	•	-	0	ASt	8	•
Donaghadee	1026.0	-1	SW	2	cr	50	92	6	4000	StCu	9	-	9	•
Birr Castle	1021.1	-1	S	1	od	53	97	7	4000	Nb	10	-	10	•
Holyhead	1027.5	-1	SW	2	c	51	92	6	1500	St	10	-	10	•
Liverpool (Bidston)	1028.9	-1	SE'E	3	bc	47	75	5	1500	St	2	CuSt	5	1
Chester (Sealand)	1029.0	-2	SE'S	2	bc+	48	75	5	-	-	0	CuSt	5	1
Prestatyn	1029.1	-1	SSW	1	b	47	75	5	2500	St	1	-	1	•
Spurn Head	1029.7	0	-	0	bc	49	75	6	4000	StCu	2	ASt	5	2
Birmingham (Edgbaston)	1029.7	-1	SSW	3	b	49	65	7	2500	Cu	1	-	1	•
Cranwell	1029.9	-2	W	1	b	48	75	7	4000	Cu	1	-	1	•
Gorleston	1029.6	0	E	2	bc	51	75	7	5700	Cu	2	ACu	6	•
Valentia (Cahiroiveen)	1025.9	-1	S'E	4	od	55	97	7	800	St	10	-	10	1
Roches Point	1027.2	-1	W	2	c	53	92	7	1500	CuNb	9	-	9	•
Pembroke (St. Ann's H.)	1028.0	-1	S	2	c+	51	85	7	4000	StCu	10	-	10	•
Ross-on-Wye	1029.1	-1	-	0	mmb	43	85	4	-	-	0	-	0	1
Leafield	1029.3	+1	N'E	2	bc+	46	85	8	4000	Cu	3	-	3	3
Winchester (Worthy Dn.)	1028.9	-2	NE'N	2	b	50	65	8	2500	Cu	1	-	1	1
S. Farnborough	1028.7	-3	NNE	1	b/f	48	85	6	2500	Cu	1	-	1	0
London (Kew Obsy.)	1029.0	-2	S	1	f/fb	43	92	2	4000	Cu	2	-	2	1
Croydon	1028.9	-2	-	0	fc-	43	97	3	4000	Cu	9	-	9	1
Shoeburyness	1029.7	0	E	1	c/r	48	85	8	2500	StCu	7	ACu	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1029.6	0	E	1	c-	49	75	7	4000	StCu	9	-	9	0
Lympne	1028.1	-2	NE	3	c	45	75	7	2500	StCu	10	-	10	1
Scilly (St. Mary's)	1030.3	+1	W'N	1	bc	52	75	7	4000	Cu	5	ACu	7	•
Falmouth (Pendennis)	1030.2	0	SE'E	1	bc	54	65	6	4000	Cu	2	Ci	3	•
Plymouth (Mt. Batten)	1029.1	-2	S	1	b	55	55	8	4000	Cu	1	-	1	2
Portland Bill	1028.2	-1	NE	3	b-	51	65	8	2500	StCu	2	-	2	•
Southampton (Calshot)	1029.1	-2	NE'E	2	bc+	52	55	8	2500	Cu	3	-	3	0
Dungeness	1028.9	-1	E	2	c	46	75	8	2500	StCu	7	ASt	10	•
Guernsey (St. Peter Port)	1028.7	-1	NE	2	bc-	54	65	8	4000	StCu	4	ACu	6	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1021.3	+2	SW	1	bc	49	92	7	1500	StCu	4	ASt	6	•
Stornoway	1022.8	+2	-	0	b	44	97	6	-	-	0	-	0	•
Wick	1023.0	+2	W	1	bc	47	97	7	4000	StCu	3	CuSt	6	0
Tiree	1024.9	+1	-	0	bc	45	92	8	2500	StCu	1	CuSt	4	2
Nairn	1023.5	-	-	0	bc	49	85	8	2500	Cu	5	-	5	•
Aberdeen	1024.3	+1	WSW	1	c	49	92	6	1500	Nb	5	ASt	10	0
Malin Head	1024.8	+1	NNW	1	c	52	97	6	800	St	5	-	9	2
Renfrew	1025.3	+1	S	3	o	50	97	6	450	Nb	10	-	10	•
Edinburgh (Inchkeith)	1025.3	0	WSW	2	o	49	85	7	1500	St	10	-	10	0
Leuchars	1025.3	+1	WSW	2	c	48	97	5	450	St	9	ASt	10	•
Eskdalemuir	1027.4	+1	SW	3	od	44	97	4	450	St	10	-	10	•
Tynemouth	1026.9	-1	SW	2	mmc	47	85	4	1500	St	10	-	10	1
Blacksod Point	1024.2	0	-	0	bc	50	75	7	•	-	0	CSc	4	2
Donaghadee	1025.1	0	SW	1	od	50	97	6	1500	St	10	-	10	0
Birr Castle	1025.3	-1	S	1	odd	53	97	6	4000	Nb	10	-	10	•
Holyhead	1026.8	0	S	3	od	50	97	6	800	Nb	10	-	10	•
Liverpool (Bidston)	1027.7	0	SE'S	3	c+	45	75	5	1500	St	2	ASt	9	1
Chester (Sealand)	1028.2	+2	SE'S	2	bc	40	92	5	7200	StCu	6	-	6	•
Prestatyn	10280	0	-	0	fb	38	92	3	<150	St	2	-	2	•
Spurn Head	1028.6	0	-	0	bc	47	92	3	4000	StCu	2	ASt	2	1
Birmingham (Edgbaston)	1029.5	0	SW	1	mb	41	85	4	-	-	0	Ci	1	•
Cranwell	1029.2	0	-	0	b	37	92	4	4000	StCu	1	-	1	•
Gorleston	1029.0	0	NE	2	bc-	47	75	7	5700	Cu	3	-	3	0
Valentia (Cahiroiveen)	1025.0	0	S'E	3	cd	55	97	7	800	St	10	-	10	5
Roches Point	1026.5	-1	SW	2	c	53	97	7	1500	St	9	-	9	0
Pembroke (St. Ann's H.)	1027.8	-1	SSW	2	c	51	85	8	2500	StCu	8	ASt	10	0
Ross-on-Wye	1028.7	0	ENE	1	mmb	38	92	4	-	-	0	Ci	1	•
Leafield	1029.2	0	NW'N	1	b-	39	92	6	4000	StCu	1	-	1	•
Winchester (Worthy Dn.)	1028.6	+2	NE	1	bc	40	85	7	4000	StCu	3	-	3	•
S. Farnborough	1028.5	+1	ENE	1	fb	38	92	3	-	-	0	-	0	•
London (Kew Obsy.)	1028.9	+1	-	0	FFo	42	97	1	<150	St	10	-	10	•
Croydon	1028.6	+1	ESE	2	mmc	45	85	4	2500	StCu	9	-	9	•
Shoeburyness	1029.1	0	NW	1	bc	43	92	8	4000	StCu	5	-	5	•
Clacton-on-Sea	1028.5	0	ESE	3	bc	48	75	7	4000	Cu	7	-	7	2
Felixstowe	1029.2	+1	NE'N	1	bc	45	75	7	4000	StCu	7	-	7	0
Lympne	1028.7	+1	N'E	3	b-	40	85	6	2500	StCu	2	-	2	•
Scilly (St. Mary's)	1028.7	0	W'S	2	bc	49	85	8	4000	StCu	7	-	7	1
Falmouth (Pendennis)	1029.6	-1	NW'N	2	bc	48	75	7	4000	Cu	3	CuCi	4	0
Plymouth (Mt. Batten)	1028.8	+1	NE	1	b	45	92	7	-	-	0	Ci	0	0
Portland Bill	1028.1	-3	NE	3	bc+	47	75	7	2500	StCu	4	-	4	2
Southampton (Calshot)	1028.7	+1	ENE	2	c+	48	75	6	4000	StCu	10	-	10	0
Dungeness	1027.7	-2	NNE	3	c	47	75	8	2500	StCu	8	ASt	10	2
Guernsey (St. Peter Port)	1028.2	0	NE	2	bc+	50	85	7	4000	StCu	6	-	6	2

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility. 9h.
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	of-bf	coffe	ofbfof	44	32	28	Tr	-	1.6	*	*	1
Croydon	244	ofofec	ffecm	offcmf	48	34	29	-	Tr	1.5	*	*	4
Greenwich (Royal Obsy.)	149	bcf	bcc	cffx	51	33	22	-	Tr	1.5	73	92	3
City (Bunhill Row)	70	*	*	*	*	*	*	*	*	1.5	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	50	36	29	-	-	0.1	73	92	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	3.7	*	*	*
Camden Square	110	b	c	*	51	39	*	-	-	*	*	94	*
Kensington Palace	80	bz,of	fbc	*	49	34	28	-	-	*	(At 18h) 93	93	*
Hampstead Observatory	450	*	*	*	43	35	25	-	Tr	5.7	*	83	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
3.6	12h 1st	0.3	24h 2nd

Kew Observatory

Max.	Time.	Min.	Time.
2.6	24h 2nd	0.5	9h 1st

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	12.30	4.47	36
δ Ursae Minoris	12.30	3.56	31

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-3rd November..., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.53	11.37	16.20
Greenwich	6.54	11.37	16.18
Wick	6.56	11.44	16.30
Valentia	6.58	11.44	16.28
	7.31	11.56	16.20
	7.34	11.56	16.17
	7.38	12.25	17.10
	7.40	12.25	17.8

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. g 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 taunder.
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 "sondus" 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.

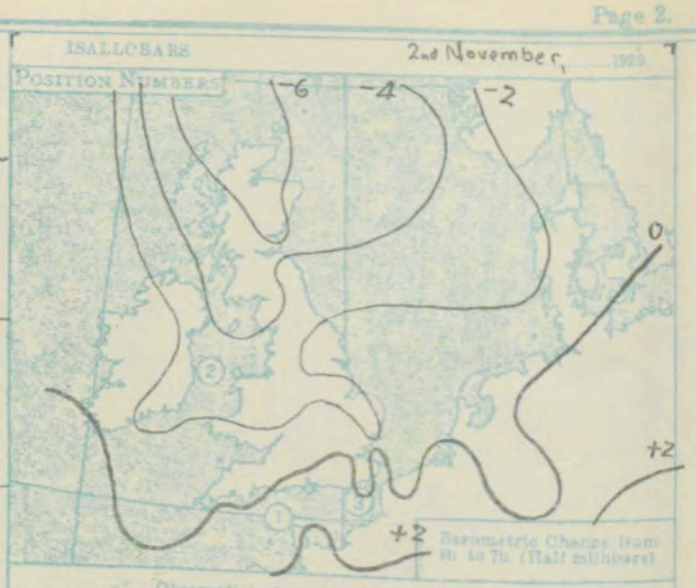
‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 1st	13h.-18h. 1st	18h. 1st to 1h. 2nd	1h.-7h. 2nd	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. amt.	began.	Night. 18h.-7h. amt.	began.	SUN ‡ Hours.
Lerwick	coro	oro.cbc	b.bc	bcir.	51	44	*	5	<8.00	Tr	4.30	0.0
Stornoway	p	b-bc	b-bc	bc	54	41	*	2	<8.00	-	-	3.7
Wick	cprc	p-bc	b-bc	bcorr	54	40	*	1	<8.00	2	3.30	*
Tiree	r.c	bc	bccf	cw	54	40	29	3	<8.00	Tr	-	0.7
Nairn	c	cd.bc	bccp	crr	55	41	*	Tr	14.30	2	24.00	0.0
Aberdeen	czcirz	cir.z.	comm.	orrm.	50	46	44	0.2	9.00	4	3.30	0.0
Malin Head	cr.c	ce	cm.om.r.	oirm.m.	53	48	*	0.3	<8.00	3	22.00	0.0
Renfrew	dcirm.	cod.dom	cdde.r.	orrm.	51	48	47	1	<8.00	6	<21.00	0.0
Edinburgh (Inchkeith)	com.	oro.r.	oir.m.	om.fir.r	50	48	47	0.4	14.30	7	24.00	0.0
Leuchars	cmddm.	cm.r.m.	cer.	cr.r	49	47	44	1	<8.00	6	24.00	0.0
Eskdalemuir	ocrm.	od.m.m.	od.f	offdd	44	42	42	0.4	9.00	3	<21.00	0.0
Tynemouth	bcm.	bccmm	omm	om.	48	43	40	-	-	-	-	*
Blacksod Point	dc	cbc	c	roc	55	48	*	1	*	0.1	*	*
Donaghadee	cir.	id.m.	oid.	orr	51	49	*	3	<8.00	5	<21.00	*
Birr Castle	orcoid	oird	oid.	cpr	54	52	-	2	<8.00	2	<21.00	0.0
Holyhead	bccm.	d.cm.	d.id.om.	d.om.	53	50	49	Tr	13.30	0.4	<21.00	0.1
Liverpool (Bidston)	bbcm	bcc	cbc	bccm.	49	41	39	-	-	-	-	6.7
Chester (Sealand)	xbmbcz.	bcz.mm	bcm.m	bcm	48	39	35	-	-	-	-	5.6
Harrogate	b	bbf	bff	bbeff	47	36	31	-	-	-	-	6.2
Spurn Head	bc	bc	bcbw	bccw	51	39	*	-	-	Tr	-	7.4
Birmingham (Edgbaston)	bfb	b	bm	bbx	49	34	29	-	-	-	-	7.2
Cranwell	b'vbcb	bz.	bm.x	bcm.x	49	33	24	-	-	-	-	7.0
Gorleston	bc	bc	bcb	c	52	41	39	-	-	-	-	2.7
Valentia (Cahirciveen)	cr.oridid	oididc.	cd.od.d	burrid.	55	52	50	3	<8.00	2	<21.00	0.0
Roches Point	cir.c	cid.c	oid	ofodd	54	53	*	1	<8.00	3	<21.00	*
Pembroke (St. Ann's H.)	cm.	c	c	c	52	50	*	-	-	-	-	1.8
Ross-on-Wye	Fxbfm	bmbq	bmcF	FFx	48	26	23	0.1	-	-	-	5.3
Leafield	bfb	bc	bw	bxif	50	29	19	0.1	-	Tr	-	5.2
Winchester (Worthy Dn.)	Hcmmb	bbc	bccbx	bxFFx	50	28	23	-	-	-	-	6.5
S. Farnborough	bfxbfebx	bbcbffx	bfofex	offex	51	28	26	Tr	-	Tr	-	2.5
London (Kew Obsy.)	off bf	cpffe	ofebfe	bfeofx	44	32	28	Tr	-	-	-	1.6
Croydon	ofefec	cf fbczn	ofg	ofcmw	48	34	29	-	-	Tr	-	1.5
Shoeburyness	cbm.c	c.bc	c	cm.x	49	35	29	Tr	9.00	-	-	0.9
Clacton-on-Sea	bccbc	bc	bc	bc	49	44	40	-	-	-	-	0.1
Felixstowe	bccr.bc	c	bcc	c	50	42	36	Tr	9.00	-	-	0.6
Lympne	ccm.c	cbcm.	bm.c	cbcc	46	37	29	-	-	-	-	0.8
Scilly (St. Mary's)	bbc	bc	bcc	c	54	47	*	-	-	-	-	6.5
Falmouth (Pendennis)	bcz.	bc	bc	bc	54	42	*	-	-	-	-	7.4
Plymouth (Mt. Batten)	cFby	by	bw	bwx	56	34	30	-	-	Tr	-	7.8
Portland Bill	bc	bc	bz.	bbc	52	44	*	-	-	-	-	*
Southampton (Calshot)	bc,ofcbc	bcbymcm	cmbcm.	bcwm.,offe	52	33	33	-	-	Tr	-	5.4
Dungeness	c	c	cbc	bcc	47	42	*	-	-	-	-	*
Guernsey	c	c	bc	bcc	54	46	39	-	-	-	-	7.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility ‡
2	1st 10h	Hibernia	S'W	5	C+	52	54	7
3	2nd 2h	Brighton	ENE	3	C	46	56	7

GENERAL INFERENCE.

A depression centred west of Iceland will probably move east-south-east and an associated secondary move northeast across Britain. Weather will be unsettled in the West and North, though brighter intervals, probably with sleet showers in Scotland, will occur tomorrow. Mainly fair conditions will continue in the Southeast.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 2nd. November, 1929.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 2nd. November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind south or southwest, moderate; mainly fair; moderate temperature.	None issued.
6. South Wales 7. North Wales 8. N.W. England	Wind south or southwest, moderate or fresh, veering; cloudy; perhaps drizzle or occasional rain at first and showers later; moderate temperature.	
9. N. Midlands 10. N.E. England	Wind south or southwest, moderate or fresh, veering; cloudy; moderate temperature.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. (A. W. Scotland, B. NW. Scotland)	Wind becoming west or northwest, freshening; cloudy; occasional rain; perhaps sleet showers tomorrow; moderate temperature, probably becoming lower.	
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind southerly, moderate or fresh, veering; cloudy, rain or drizzle; perhaps sleet showers tomorrow; moderate temperature, probably becoming lower.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind becoming west or northwest, moderate or fresh locally; cloudy; perhaps showers or occasional rain; moderate temperature, probably becoming lower.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 Forecasts issued at 1015 G.M.T.

C. C. Stevens, M.B., D.Sc., F.R.S., Director.

† For code see page 1

‡ Trace = rain was taken, but amount less than 0.1 mm.

SYNOPTIC CHART FOR 7h. SATURDAY, 2ND NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

LOW.

0 36 Fine -3

Barometer

15 39 Cloudy -3

0 41 Rain -5

Falling

42 26 Heavy Steel Showers -1

986 988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022 1024 1026 1028

Bar. Falling Rapidly

27 46 O'cast -11

Barometer

10 48 Cloudy

2 48 Cloudy

10 50 Rain

Falling

10 49 Rain

2 50 Drizzle

Briskly

2 43 Fine

5 52 Rain

Bar. Rising Slightly

5 54 Cloudy

21 52 O'cast

10 57 Drizzle

10 53 Cloudy

15 50 Cloudy

0 45 Fine

5 46 Fine

10 49 Fine

2 32 Thick Fog

10 35 Fine

10 40 Cloudy

2 44 Cloudy

10 39 Mist

10 41 Cloudy

5 41 Cloudy

10 41 Drizzle

0 39 Cloudy

2 43 Cloudy

Slowly

Rising

10 41 O'cast

10 41 Drizzle

Barometer

35 45 Cloudy

1 27 Cloudy

21 46 O'cast

1026 LOW.

5 37 Cloudy

2 41 Fine

10 46 Fine

21 45 Rain

HIGH.

36 Cloudy 2

43 Cloudy 10

15 43 Drizzle

43 O'cast 2

5 45 Cloudy

Falling

HIGH.

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 ⅞ clouded. ◕ sky more than ⅞ clouded. ● overcast sky. ⊕ rain falling. ✱ snow. ▲ hail. ≡ fog. ≋ mist. ϒ thunder. ϒ̲ thunderstorm.

SEA DISTURBANCE.—Rough. Very Rough.

In ICELAND barometric change from 6h. to 7h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Saturday, 2nd November 1929. No. 306

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

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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	54	1021·9	0	SW	1	bc	45	92	8	1500	StCu	4	-	4
Stornoway	30	1020·7	-2	W	1	b-	*	*	8	*	*	*	*	2
Wick	81	1021·8	-3	SSW	1	bc	49	97	8	2500	StCu	4	CSt	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1021·6	-3	-	0	or$_0$	50	97	5	1500	Nb	10	-	10
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1023·9	-2	WSW	1	or.	49	92	6	800	St	10	-	10
Lanchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1025·4	-1	SW	2	o/rn	45	92	5	800	St	10	-	10
Blacksod Point	18	1021·2	-2	S	1	c	50	97	7	*	StCu	8	-	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	38	1025·0	-3	SSE	4	od$_0$	51	92	6	450	St	10	-	10
Liverpool (Bidston)	139	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1027·9	0	SW'S	2	b	43	97	7	-	-	0	ASt	2
Birmingham (Edgbaston)	585	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	298	1028·7	0	S	1	b-	34	92	6	-	-	0	-	0
Gorleston	14	1028·7	0	NW'W	1	c+	44	85	6	-	-	0	ASt	10
Valentia (Cahirciveen)	30	1023·0	-3	SW	2	c/d	56	85	7	*	St	9	-	9
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1026·2	-2	SSW	1	c	52	85	8	4000	StCu	4	ASt	10
Ross-on-Wye	229	*	*	*	*	*	*	*	*	*	*	*	*	*
Losdield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	257	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	39	*	*	*	*	*	*	*
Croydon	244	1029·0	0	-	0	fo+	41	97	2	1500	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1028·4	0	NNE	1	c+	41	85	8	2500	St	10	-	10
Scilly (St. Mary's)	163	1028·4	0	S'W	3	c	49	85	8	4000	StCu	8	-	8
Falmouth (Pendennis)	200	1029·2	-1	N	1	bc+	42	85	7	4000	StCu	7	-	7
Plymouth (Mt. Batten)	88	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	85	1027·4	0	NE	3	b	49	75	6	-	-	0	-	0
Southampton (Calshot)	10	1029·0	-1	NNE	2	bc-	44	85	5	800	St	4	-	4
Dungeness	30	1028·2	0	ESE	1	bc-	45	75	8	2500	StCu	5	-	5
Guernsey (St. Peter Port)	173	1028·4	0	NE	3	bc	49	65	8	4000	StCu	4	-	4

Observations at 7h. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sun. 0-9
Lerwick	1016·1	-4	SE	3	c	48	92	7	1500	StCu	5	Cu	8	*
Stornoway	1014·2	-6	W	1	c+	48	92	7	2500	StCu	10	-	10	0
Wick	1015·5	-6	SSW	3	orr	50	97	7	1500	Nb	10	-	10	1
Tiree	1016·4	-5	S	1	c	47	97	8	4000	StCu	1	ASt	9	*
Nairn	1015·3	*	-	0	clr	43	92	8	1500	CuNb	8	-	8	0
Aberdeen	1017·6	-4	SSW	3	orr	49	92	6	800	Nb	10	-	10	0
Malin Head	1017·3	-3	S	1	cd	50	97	5	1500	Nb	4	ASt	9	7
Renfrew	1017·9	-5	S	3	cr+	50	97	5	800	Nb	7	ASt	10	*
Edinburgh (Inchkeith)	1018·7	-4	S	2	orr	50	92	7	800	Nb	10	-	10	0
Lanchars	1018·5	-7	SW	1	crr	48	97	6	800	Nb	8	ASt	10	*
Eskdalemuir	1021·4	-7	S	3	odd	44	97	3	220	St	10	-	10	*
Tynemouth	1022·8	-2	SW	1	bc-	43	92	5	1500	St	5	ACu	7	1
Blacksod Point	1013·0	-1	W	2	cr.	52	92	7	*	-	0	ASt	10	4
Donaghadee	1018·5	-4	SSW	2	orr	52	97	7	2500	Nb	10	-	10	0
Birr Castle	1020·2	-1	SW	2	c	54	97	7	2500	CuNb	9	-	9	*
Holyhead	1022·9	-2	S	5	o	52	92	6	800	St	10	-	10	3
Liverpool (Bidston)	1023·8	-2	SE'S	4	c-	42	85	6	1500	St	6	ACu	9	*
Chester (Sealand)	1024·5	-2	SE'S	3	c/m	42	92	5	5700	StCu	9	-	9	*
Harrogate	1025·3	-1	SSW	1	ffbc	36	92	3	<150	StCu	3	-	3	*
Spurn Head	1025·7	-1	SW'W	3	c+	40	92	6	4000	StCu	5	Cu	9	*
Birmingham (Edgbaston)	1027·1	-2	SSW	3	bc	35	97	5	-	-	0	Cu	4	*
Cranwell	1026·9	-3	SSW	3	bc+	35	97	5	-	-	0	CuCu	6	*
Gorleston	1027·7	-1	W	1	c	44	75	7	5700	StCu	9	-	9	0
Valentia (Cahirciveen)	1028·2	+1	WSW	3	cd$_0$	52	97	7	800	St	10	-	10	4
Roches Point	1028·5	-3	SW	3	odd	54	97	6	800	St	10	-	10	4
Pembroke (St. Ann's H.)	1028·2	-1	SSW	3	c	53	92	8	2500	Cu	4	ASt	10	*
Ross-on-Wye	1027·2	-2	-	0	FFc	27	97	1	<150	St	8	-	8	*
Losdield	1027·7	-1	S'W	2	ifbc	32	97	3	-	-	0	CSt	5	*
Winchester (Worthy Dn.)	1028·7	0	-	0	FFb	28	97	1	-	-	0	-	0	*
S. Farnborough	1028·6	0	ENE	1	FFo	28	97	1	<150	St	10	-	10	*
London (Kew Obsy.)	1028·8	0	WSW	1	FFo	32	97	1	<150	St	10	-	10	*
Croydon	1028·3	0	-	0	Fbc+	34	97	1	4000	StCu	2	ACu	53	*
Shoeburyness	1028·1	0	W'S	1	c	39	92	6	4000	StCu	8	-	8	*
Clacton-on-Sea	1027·3	-2	N	2	bc	44	75	7	4000	Cu	6	-	6	0
Felixstowe	1027·9	-1	-	0	c	43	85	7	4000	StCu	9	-	9	*
Lympne	1027·4	0	N	2	c+	39	85	7	2500	StCu	8	-	8	0
Scilly (St. Mary's)	1027·2	-1	SSW	4	c	50	85	8	4000	StCu	9	-	9	1
Falmouth (Pendennis)	1028·4	0	-	0	bc+	44	92	7	4000	StCu	6	-	6	0
Plymouth (Mt. Batten)	1027·8	-1	NE	3	b+	34	97	8	-	-	0	Cu	-	0
Portland Bill	1027·4	0	E	3	bc+	49	65	7	2500	St	1	CSt	4	*
Southampton (Calshot)	1028·7	0	NW	2	FFo	35	97	1	<150	St	10	-	10	*
Dungeness	1027·6	-1	NNW	1	c+	43	92	8	2500	StCu	9	-	9	2
Guernsey (St. Peter Port)	1028·0	+1	SSE	2	bc-	46	92	7	4000	StCu	6	-	6	*

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

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-21h. to 9h. °F.	Temperature. Max. 9h.-17h.† °F.	Rainfall.† Night 17h.-9h. mm.	Rainfall.† Day 9h.-17h. mm.	Sunshine. Sunrise to Sunset. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	or$_0$	32	46	trace	2	0·0
Douglas (I. o. M.)	co	odm	38	53	-	1	0·0
Llandudno	bcc	c	35	51	-	-	3·0
Colwyn Bay	cbbcb	bcbcc	34	51	-	-	3·7
Rhyl	bc	bc	30	52	-	-	4·9
Wallasey	fbc	bcc	33	50	-	-	5·4
Southport	xbbcc	co	*29	49	-	-	3·2
Blackpool	mc	co	31	48	-	-	0·5
Morecambe	cbc	bcc	28	45	-	-	0·4
Ilkley	xbc	cm	25	46	-	-	2·9
Clsethorpes	fb	bc	35	50	-	-	3·9
Mablethorpe	bxwm	bcm$_0$	34	50	-	-	6·6
Skegness	bxzb$_0$	bcb	35	51	-	-	5·5
Aberystwyth	cmbc	mc	34	51	-	-	0·5
Bath	fb	b	30	50	-	-	6·1
Cheltenham	ofcbc	of	28	46	-	-	1·0
Leamington Spa	of	bcf	26	46	-	-	3·5
Lowestoft	odcv	cbcbc	45	51	trace	-	1·3
Harwich & Dovercourt	bcbc	bc	41	50	-	-	0·4
Maldon	bccb	c	37	50	-	-	2·4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	b	b	36	53	-	-	8·3
Bude	wxbcb	bbm	30	53	-	-	7·8
St. Ives	bc	bc	40	57	-	-	5·7
Penzance	b	bz	36	55	-	-	6·6
Paignton	bwm	bm	33	54	-	-	7·9
Torquay	wbm	bm	37	52	-	-	8·3
Jersey	bc	c	43	53	-	-	9·0
Weymouth	b	b	38	53	-	-	8·2
Bournemouth	b	b	34	52	-	-	8·1
Ventnor	xbc	bbcz	40	52	-	-	8·3
Portsmouth (S'thsea)	bc	bc	38	52	-	-	6·7
Bognor Regis	b	bbcb	39	50	-	-	7·1
Littlehampton	bc	bc	37	49	-	-	7·3
Worthing	bcc	c	39	48	-	-	3·0
Brighton	mbc	cm	41	48	-	-	2·1
Eastbourne	c	c	43	47	trace	-	3·3
Hastings	oco	occ	42	47	1	-	0·0
Folkestone	rc	cbc	41	47	2	-	0·0
Dover	c	c	42	48	3	-	0·7
Deal	cbc	co	43	48	1	-	1·5
Tunbridge Wells	bco	ocom	38	47	-	-	1·1
Ramsgate	c	cbc	44	48	0·6	-	1·1
Margate	cbc	bcc	44	48	0·4	-	1·1
Southend	bcmc	cbccd	39	53	-	trace	1·1

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* Information not usually received. ‡ For code see page 1. ‡ See footnote page

P The observations at 7h. G.M.T., from an auxiliary station.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,818 Sunday, 3rd November, 1929.

Observations at 18h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.	Rainfall Day. mm.	Rainfall Night. mm.
Lerwick	1008.5	-5	SW	3	c	49	92	7	1500	StCu	5	ASt	9	*		-
Stornoway	1011.6	-2	SW	3	c/pr.	47	92	8	4000	CuNb	9	-	9	*		8
Wick	1012.0	-2	SSW	3	bc.	51	92	8	4000	StCu	2	CiCu	5	*		
Tiree	1015.6	0	W'S	6	c+	50	75	8	2500	CuNb	6	ACu	8	0		27
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*		-
Aberdeen	1013.8	-4	SSW	1	c-	50	82	5	2500	Nb	6	ACu	9	1		
Malin Head	1017.7	0	W	4	c/pr.	51	92	7	2500	CuNb	9	-	9	*		
Renfrew	1016.2	0	SW	2	c	51	92	7	1500	Nb	2	ASt	8	2		
Edinburgh (Inchkeith)	1014.0	-3	WSW	2	cr.	51	97	7	800	St	9	-	9	*		
Leuchars	1014.5	-3	WSW	2	cd.	51	97	6	800	St	9	-	9	2		
Eskdalemuir	1016.0	-5	SW	4	odd	50	97	5	220	Nb	10	-	10	2		
Tynemouth	1018.6	-2	SSW	2	ojp	49	85	6	1500	Nb	10	-	10	*		
Blacksod Point	1020.6	+1	W	4	bc	52	75	8	*	Cu	7	-	7	*		
Donaghadee	1018.1	0	WSW	1	c	53	92	8	4000	StCu	8	-	8	*		
Birr Castle	1021.5	0	W	2	odd	54	85	7	4000	Nb	10	-	10	*		
Holyhead	1019.9	-3	SW's	4	c	56	97	6	450	St	9	ASt	10	1		
Liverpool (Bidston)	1021.3	-3	SW	3	0	52	85	7	2500	Nb	10	-	10	*		
Chester (Sealand)	1021.6	-3	SSW	3	bc	55	76	6	1500	St	9	-	9	1		
Harrogate	1020.9	-3	S	2	od.	49	85	3	150	St	10	-	10	*		
Spurn Head	1022.7	-2	SW's	4	c	47	86	6	1500	St	4	CiSt	8	*		
Birmingham (Edgbaston)	1024.7	-4	S	3	c	43	85	5	4000	StCu	9	-	9	2		
Cranwell	1024.1	-4	S'W	4	c+	48	65	6	4000	StCu	7	Ci	9	1		
Gorleston	1026.6	0	SW	3	bc	48	85	7	4000	Cu	4	-	4	*		
Valentia (Cahirciveen)	1024.7	+1	W	4	c	53	75	8	1500	StCu	10	-	10	1		
Roches Point	1023.6	-1	W	2	c	55	92	8	2500	CuNb	8	-	8	*		
Pembroke (St. Ann's H.)	1023.0	-2	SSW	4	cd.	53	97	6	2500	StCu	10	-	10	*		
Ross-on-Wye	1024.1	-3	SW	3	c	49	85	6	2500	St	7	ASt	9	1		
Leafield	1026.6	-3	S'E	2	c+	42	85	7	5700	StCu	9	-	9	5		
Winchester (Worthy Pk.)	1026.3	-4	S	3	bc+	48	66	6	-	-	0	CiSt	7	1		
S. Farnborough	1026.1	-4	SSW	3	bc	50	65	7	-	-	0	Ci	5	0		
London (Kew Obsy.)	1026.7	-5	SW's	3	b/m	46	75	5	4000	Cu	2	-	2	1		
Croydon	1026.7	-3	SSW	3	bc-	49	65	6	5700	StCu	1	Ci	6	1		
Shoeburyness	1027.4	-1	SW	2	bc-	48	66	7	-	-	0	Ci	6	*		
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Felixstowe	1027.0	-3	SSW	3	bc	49	65	8	4000	Cu	2	Ci	4	0		
Lympne	1027.1	-2	SW	2	c	49	66	7	4000	StCu	9	-	9	1		
Jersey (St. Mary's)	1026.6	-1	WSW	6	c	52	97	7	2500	Nb	8	-	8	*		
Falmouth (Pendennis)	1027.7	-2	SW'W	4	c	53	75	8	4000	StCu	10	-	10	*		
Pirbright (Mt. Hatton)	1026.6	-3	SW	3	c	53	75	8	4000	StCu	9	Ci	9	2½		
Portland Bill	1026.7	-1	SW	2	bc+	53	65	8	-	-	0	CiSt	5	0		
Southampton (Calshot)	1027.1	-4	SSW	3	bc+	52	66	7	-	-	0	Ci	7	0		
Dungeness	1028.3	-3	NNW	1	c+	43	65	8	2500	StCu	4	ASt	10	*		
Guernsey (St. Peter Port)	1028.8	-2	S	1	bc-	52	76	7	-	-	0	CiSt	4	*		

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	1010.8	-1	SW	2	bc	46	85	7	1500	StCu	4	-	4	*
Stornoway	1011.3	+1	WSW	3	hc/PR	42	92	7	4000	CuNb	7	-	7	2
Wick	1011.6	0	SSW	2	bc	43	92	8	2600	CuNb	2	CiCu	4	1
Tiree	1015.8	+1	W'N	6	bc	47	75	8	2600	StCu	5	ASt	6	6
Nairn	1013.6	*	W	2	bc	41	85	8	2600	CuNb	5	-	5	*
Aberdeen	1013.5	0	WSW	2	b	48	85	6	4000	StCu	2	-	2	0
Malin Head	1018.5	+1	WSW	5	bc/pr.	47	92	7	2500	CuNb	7	-	7	5
Renfrew	1017.5	+2	WSW	3	c	47	85	7	2500	StCu	7	ASt	9	*
Edinburgh (Inchkeith)	1015.0	+1	WSW	3	bc	49	85	7	800	St	6	-	6	1
Leuchars	1016.0	+1	W	3	bc	47	85	7	4000	StCu	3	ASt	5	*
Eskdalemuir	1017.7	+3	W	3	c	47	85	8	2500	StCu	9	-	9	*
Tynemouth	1016.8	0	VV	2	o	51	92	6	1500	St	10	-	10	1
Blacksod Point	1022.1	+1	W	4	bc/pr.	47	85	8	*	CuNb	7	-	7	4
Donaghadee	1019.3	+2	WSW	1	c	47	92	7	4000	StCu	8	-	8	0
Birr Castle	1023.0	+2	SW'W	1	c-	48	85	7	4000	StCu	8	-	8	*
Holyhead	1020.1	+1	W'N	4	or.	53	85	6	1500	St	10	-	10	3
Liverpool (Bidston)	1019.5	-1	W	5	c	52	92	7	2500	StCu	9	-	9	*
Chester (Sealand)	1020.0	+1	SE'S	2	c-	51	92	5	1500	St	8	-	8	*
Harrogate	1019.1	-1	S.	3	od.	48	97	5	2500	St	10	-	10	*
Spurn Head	1020.1	0	SW'W	4	or.	45	97	6	2500	Nb	10	-	10	2
Birmingham (Edgbaston)	1022.7	-1	S.	3	0	45	97	5	2500	Nb	10	-	10	*
Cranwell	1021.9	-1	SW'W	4	or.	45	97	6	800	Nb	10	-	10	*
Gorleston	1024.0	-3	SSW	3	bc-	43	66	7	-	-	0	ACu	3	0
Valentia (Cahirciveen)	1026.5	+1	W'N	4	c/pr.	50	85	8	1500	St	9	-	9	3
Roches Point	1024.8	+2	VV	2	c	52	85	8	4000	StCu	8	-	8	0
Pembroke (St. Ann's H.)	1022.5	0	SSW	3	c/d	53	97	8	2500	StCu	10	-	10	2
Ross-on-Wye	1022.7	-1	SW	3	0	49	85	6	1500	St	10	-	10	*
Leafield	1023.2	-2	SW'S	4	c	46	85	6	4000	St	9	-	9	*
Winchester (Worthy Pk.)	1024.3	-1	SSW	2	cd.	48	76	7	4000	StCu	7	ASt	10	*
S. Farnborough	1024.8	-2	SSW	2	c	47	76	7	4000	StCu	3	ASt	10	*
London (Kew Obsy.)	1024.7	-2	SW'S	3	c	46	75	5	-	-	0	ACu	9	*
Croydon	1024.9	-2	SW	3	c-	47	76	6	4000	StCu	8	-	8	*
Shoeburyness	1025.2	-1	SSW	2	bc	45	85	7	-	-	0	ASt	4	*
Clacton-on-Sea	1024.6	-2	SSW	3	bc	47	75	7	4000	Cu	5	-	5	2
Felixstowe	1026.0	-1	S'W	3	bc	46	85	7	4000	StCu	5	-	5	0
Lympne	1025.6	-1	SW's	2	b-	42	76	7	-	-	0	Ci	2	*
Jersey (St. Mary's)	1026.2	+1	NNW	4	c	52	97	7	4000	StCu	9	-	9	1
Falmouth (Pendennis)	1026.3	0	WSW	3	odd	52	87	6	2500	Nb	10	-	10	0
Pirbright (Mt. Hatton)	1025.4	-1	SW	4	odd	52	92	6	220	St	10	-	10	2
Portland Bill	1024.4	-2	WSW	4	c/p	53	75	8	1500	StCu	9	ASt	10	3
Southampton (Calshot)	1026.7	-1	SW	4	c+	52	75	7	2500	StCu	10	-	10	0
Dungeness	1026.3	-3	WSW	2	bc	47	66	8	-	-	0	ASt	5	1
Guernsey (St. Peter Port)	1027.8	-1	SW	1	bc-	50	85	5	4000	StCu	6	-	6	1

LONDON OBSERVATIONS.

Height above M.S.L. in feet.

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

	Height	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall in. Day.	Rainfall in. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY	
Kew	18	of bm	cm,	f sh/m	48	42	29	-	0.1	3.1	*	*	6
Croydon	244	cm/bc	bc/c,	c/f sh/m	49	42	32	-	1	3.1	*	*	6
Greenwich (Royal Obsy.)	149	c/c	bc/m	cd/rcbc	50	42	31	-	0.5	4.5	63	77	4
City (Bunhill Row)	96	*	*	*	*	*	*	*	*	1.2	*	*	*
Westminster (St. James' Pk.)	37	*	*	*	50	38	33	-	-	3.5	65	79	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	4.5	*	*	*
Camden Square	110	c/c	c	*	49	42	*	-	0.3	*	*	87	*
Kensington Palace	80	bc/m	bc/c	*	49	41	28	-	0.2	*	(At 18h.) 77	93	*
Hampstead Obsy.	450	*	*	*						2.2	*		*

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

3rd.-5th. November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.54	11.37	16.18
Greenwich	6.56	11.37	16.17
Wick	6.58	11.44	16.28
	7.0	11.44	16.27
Valentia	7.34	11.56	16.17
	7.36	11.56	16.15
	7.40	12.25	17.8
	7.42	12.25	17.6

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 taunder.
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.

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
2.3	10h. 2nd	<0.3	3h. 3rd

Kew Observatory			
Max.	Time.	Min.	Time.
1.6	2nd 11h.	0.1	3rd 6h.

POLE STAR RECORD at Greenwich Obsy.

Exposure from
2nd 3h. 17m. 15s.
to
3rd 6h. 15m.

Stars.	Exposure. h. m.	Exposure. h. m.	Record. s/o
Polaris	13 0	3.21	26
δ Ursæ Minoris	13 0	2.45	21

CODE FOR STATE OF GROUND.

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

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 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.

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.	11 miles.
5. Poor visibility.	24 "
6. Moderate.	34 "
7. Good.	108 "
8. Very good.	31 "
9. Excellent visibility.	beyond 31 "

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

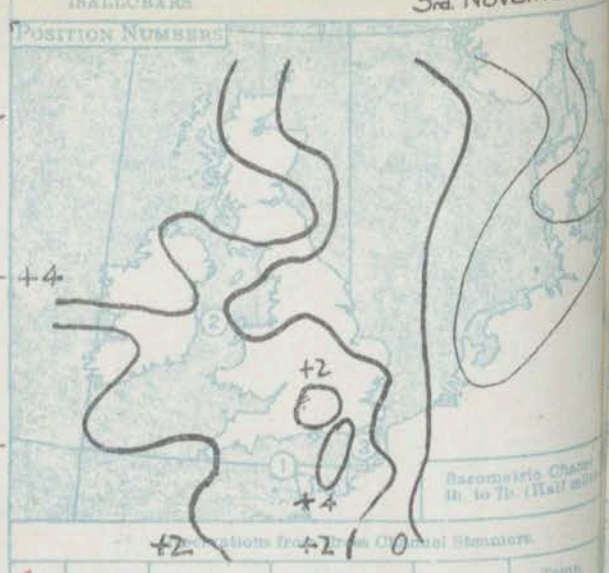
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 2nd.	18h.-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	coir.c	coir.p	bcoir.bc	bc ir. dlcbcPR	50	42	.	3	<8.00	2	01.30	0.7
Stornoway	p	bc fR	p		50	39	.	2	11.00	3	<21.00	2.1
Wick	orr bc	bc p.r	b-bc	b-bc	53	38	.	0.5	<8.00	-	-	.
Tiree	bcc	pr.c	cprbc	cprc	53	43	38	Tr.	13.30	1	<21.00	3.0
Nairn	cr b	bepr	bcx	bc	50	39	.	2	9.00	-	-	2.7
Aberdeen	orrcirm.	cz.bc	bcir.b	bbx	52	35	25	4	<8.00	Tr	<21.00	1.0
Malin Head	cidcpr.	cprbepr	bcphr.	bcp.hr	54	43	.	0.6	<8.00	3	<21.00	2.5
Renfrew	orrd.c	c	cb-cp	Rr.bccp	53	38	32	4	<8.00	4	22.00	0.2
Edinburgh (Inchkeith)	orr	c bc	b-bc	bcb	53	42	40	1	<8.00	-	-	0.0
Leuchars	crrrrdm.	cdm bc	bcbbw	bwbx	61	35	29	5	<8.00	0.1	-	0.7
Eskdalemuir	odd m.	odd c	cbwcr.	cr.r.b	51	36	30	10	<8.00	2	22.00	0.0
Tynemouth	bcmcir.	om.	oir.bc	bbc	51	42	37	0.2	11.00	0.2	<21.00	.
Blacksod Point	c	pc	pc b	pbc b	52	45	.	0.4	.	1	.	.
Donaghadee	orrc	cprc			54	40	.	2	<8.00	-	-	.
Birr Castle	orcod	odoc	cb	bcr.c	56	37	.	1	<8.00	Tr	03.30	0.0
Holyhead	id.m.	p.rc	PRcbcb	bbc	55	49	46	0.6	<8.00	1	<21.00	0.0
Liverpool (Bidston)	co	cp.c	or	cbc	53	46	42	0.4	16.30	1	<21.00	0.3
Chester (Sealand)	cm.	cud.m.	cpr.	cprm.	55	45	38	Tr.	14.30	2	<21.00	4.0
Harrogate	bcoffd.	ofcoid.	oc p.	cbp.	49	40	31	Tr.	-	0.2	<21.00	0.0
Spurn Head	bcc	cor.	orcpror	orcbc	48	44	.	Tr.	16.30	1	<21.00	3.9
Birmingham (Edgbaston)	bcc	cor.	or	cb	45	40	35	1	14.30	1	<21.00	0.3
Cranwell	xbcm.c	cmor.	or.m.	or.b	49	39	36	0.4	15.30	2	<21.00	4.0
Gorleston	cbc	bc	bccor.	oir.bc	50	42	38	-	-	1	<21.00	3.1
Valentia (Cahirciveen)	cid.id	cp.cp	bcprbc	cbcc	53	48	42	1	<8.00	0.2	<21.00	0.0
Roches Point	odc	c	cp.bc	bcb	56	44	.	Tr.	<8.00	Tr	<21.00	.
Pembroke (St. Ann's H.)	oid.	cid.	cp.bc	bbc	55	49	.	0.2	9.00	Tr	22.00	0.0
Ross-on-Wye	Fcm	d.com.	d.ombc	b	49	40	32	0.1	13.30	Tr	<21.00	0.1
Leafield	bf bc	cid.c	cid.bc	bw	47	38	31	0.1	16.30	Tr	<21.00	2.2
Winchester (Worthy Do.)	bFFxbcfm	bczcd.	cd.cr.	cbcb	51	38	32	Tr.	17.30	0.3	<21.00	3.8
S. Farnborough	ofbfcbc	bcc	od.rc	cbx	61	35	23	-	-	0.3	<21.00	3.9
London (Kew Obsy.)	ofbm	cm.	cm.bcm.	cm.bm.	48	42	29	-	-	0.1	<21.00	3.1
Croydon	cmbcz.	bccz.	cz.r.r.m.	cm.bcb	49	42	32	-	-	.1	<21.00	3.1
Shoeburyness	cm.bc	bc	bcoid	od.d.b	50	42	38	-	-	1	<21.00	4.4
Clacton-on-Sea	bcc bc	bc	bccrc	cbc	50	44	40	-	-	2	22.00	4.2
Felixstowe	cbc	bc	bccor	orrc	50	43	41	-	-	1	<21.00	3.7
Lympne	cm.cy	cbcb	bcodd.F	oRRFrcm.	50	42	37	-	-	3	22.00	3.4
Scilly (St. Mary's)	cd.	cdcfc	cd.bc	bc	54	49	.	1	11.00	0.1	<21.00	0.0
Falmouth (Pendennis)	bcc	cod m.	od.m.	cbcp.	53	48	.	0.6	14.30	1	<21.00	0.3
Plymouth (Mt. Batten)	bxcm	comdd	cpr	cb	55	44	41	0.2	14.30	0.3	<21.00	0.4
Portland Bill	bc	bcc	id.bc	bcb	54	45	.	-	-	Tr	<21.00	.
Southampton (Calshot)	oFcocfbc	bcycy	cr.c	cbcb	52	41	37	-	-	0.4	<21.00	4.1
Dungeness	cbcc	cbbc	corr	orrcbc	50	46	.	-	-	4	22.00	.
Guernsey	cbc	bcc	or	orcbc	52	50	44	-	-	3	24.00	5.3

† For code see page i

3rd. November



Position	Date and Time	Steamship	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	2nd 10h	Hibernia	S	6	om+	55	54
1	2nd 12h	St Helier	S	3	b+	54	58
3	3rd 2h	Arundel	WSW	4	or.	52	52

GENERAL INFERENCE.

An anticyclone off our southwest coasts is spreading northeast over the British Isles and will maintain fine or fair weather generally apart from local showers at first chiefly in coastal districts. A fresh depression on the Atlantic may influence the extreme western districts later in the period.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 3rd November, 1929.	Further Outlook
1. S.E. England 2. E. England 3. E Midlands 4. W. Midlands	Light or moderate northwest winds, fine or fair, moderate day temperature, ground frost at night.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Light or moderate northwest winds, probably backing tomorrow; fine or fair, moderate day temperature, ground frost at night.	Mainly fair ... England and t... Eastern half o... Scotland, prob... unsettled in Ireland and Western Scotla...
10. N.E. England 11. S.E. Scotland	Light or moderate west or northwest winds, mainly fair, perhaps showers locally in coastal areas; moderate day temperature, ground frost at night.	
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	As 10 - 11.	
16. Orkneys and Shetlands	Moderate west to northwest winds, variable sky; some showers, moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 9.	

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

Trace = rain has fallen, but amount too

SYNOPTIC CHART FOR 7h. SUNDAY, 3rd NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 200 300

LOW

HIGH

Bar. rising rapidly.

Bar. rising briskly.

Barometer falling.

Barometer rising generally.

Changes slight.

Low Barometer

ALBERTIC Sea 53 56 (10) Fine

(10) 25 Fine +4

(5) 28 O'cast +10

(150) 34 Fine +10

(27) 36 Fine +5

(21) 39 Cloudy +4

(10) 44 Fine

(21) 46 Cloudy

(15) 43 Cloudy

(2) 38 Snow

(15) 46 Rain

(10) 46 Showers

(27) 45 Cloudy

(15) 43 Cloudy

(18) 41 Fine

(5) 40 Fine

(2) 38 Fine

(10) 40 Fine

(27) 47 Fine

(5) 43 Fine

(21) 45 Fine

(15) 50 Rain

(5) 47 Fine

(15) 50 Rain

(2) 40 Cloudy

(27) 49 Fine

(15) 41 Fine

(10) 44 Fine

(10) 50 Fine

(2) 42 Fine

(15) 49 Fine

(15) 50 Fine

(10) 51 Fine

(2) 39 Fine

(2) 37 O'cast

(2) 32 Fog

(5) 41 O'cast

(0) 45 O'cast

(0) 41 Drizzle

(0) 36 Fog

(2) 57 O'cast

(10) 43 O'cast

(21) 48 Fine

1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032

EXPLANATION

BAROMETER. Isobars are drawn at 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 ⅞ clouded. ◑ sky ⅞ clouded. ● overcast sky. ⊜ rain falling. ✱ snow. ▲ hail. ≡ fog. ≈ mist. ϟ thunder. R thunderstorm.

SEA DISTURBANCE. Rough. Very Rough.

ISOBARS. Barometric change from one isobar to next in half millibars is entered beneath the word for weather.

Lower Cloud

TEMPERATURE, WEATHER, SEA.

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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Sunday, 3rd. November 1929. No. 307.

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

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	54	1006·1	0	WSW	3	bc	45	75	7	1500	StCu	5	-	5
Stornoway	30	1012·5	+2	NW	4	cPR	*	*	6	*	*	*	*	10
Wick	81	1010·8	0	SW	2	bc	41	85	8	4000	StCu	3	-	3
Tiree	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	62	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1018·8	+1	W	6	bc/pk	46	92	7	4000	Cu Nb	3	-	3
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1015·6	+1	WSW	3	bc	45	75	8	800	St	3	-	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1017·7	+1	W	2	b-	44	92	8	4000	Cu	2	-	2
Blacksod Point ...	18	1023·3	+2	NW	4	bc	47	75	7	*	Cu Nb	6	-	6
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	1022·1	+1	WNW	6	b	49	85	7	1500	Cu	1	-	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1018·3	0	NW	5	orr	48	97	6	1500	Nb	10	-	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	256	1020·5	0	W'N	3	orr	46	92	6	800	Nb	10	-	10
Gorleston	14	1020·4	-3	SW'W	3	or	45	97	5	1500	Nb	10	-	10
Valentia (Cahirciveen) P	30	1017·5	+1	W	4	bc/PR	50	75	7	*	Cu Nb	4	-	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1024·5	+2	NW	3	b-	51	92	8	2500	Cu	1	-	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	287	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	48	*	*	*	*	*	*	*
Croydon	244	1022·3	-2	WSW	4	c/r	49	92	6	1500	StCu	8	-	8
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1022·6	-2	SW'S	3	orr	48	97	3	450	Nb	10	-	10
Scilly (St. Mary's) ...	163	1027·6	+1	NW	4	bc	51	92	7	4000	StCu	7	-	7
Falmouth (Pendennis)	200	1027·0	+1	WNW	2	c/d	50	92	7	4000	StCu	7	Ast	9
Plymouth (Mt. Batten)	92	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	33	1023·2	0	WSW	4	bc-	53	85	8	1500	St	6	-	6
Southampton (Calshot)	10	1023·5	-1	WSW	3	c	51	92	8	1500	Nb	10	-	10
Dungeness	30	1022·6	-4	WSW	4	orr	50	97	7	1500	Nb	10	-	10
Guernsey (St. Peter Port)	172	1025·2	-1	NW	2	orr	54	97	8	1500	Nb	10	-	10

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun.
Lerwick	1006·5	+1	SW	3	bc/p	44	75	8	1500	Cu Nb	3	AC	5	*
Stornoway	1015·1	+5	NW	4	bc/r	41	85	7	4000	Cu Nb	5	AC	6	2
Wick	1012·0	+2	SW	2	bc	40	85	8	2500	Cu	2	CiSt	4	5
Tiree	1019·3	+3	W'N	6	bc/r	47	75	8	1500	Cu Nb	4	ASt	5	4
Nairn	1015·7	•	W	2	bc	39	85	8	2500	Cu	6	-	-	0
Aberdeen	1016·2	+3	WSW	1	b	38	75	8	2500	Cu	1	-	1	0
Malin Head	1022·9	+9	WNW	6	bc/p	47	85	8	2500	Cu Nb	5	-	5	6
Renfrew	1020·5	+4	SW	3	bc/p	40	85	7	1500	Nb	5	Ci	5	1
Edinburgh (Inchkeith)	1017·5	+2	WSW	4	b	43	85	8	2500	St	1	AC	2	0
Leuchars	1017·4	+6	WSW	3	b	36	92	8	4000	Cu	1	Ci	2	0
Eskdalemuir	1021·0	+2	W	3	b/r	39	85	8	2500	StCu	1	ACu	2	0
Tynemouth	1020·2	+2	W	2	bc	43	85	7	2500	Cu	3	-	3	1
Blacksod Point ...	1026·6	+2	WNW NNW	4	bc	47	75	7	*	Cu Nb	6	-	6	5
Donaghadee	1022·6	+2	WSW	1	b+	42	85	8	4000	Cu	1	-	1	0
Birr Castle	1021·5	+3	SW	1	c	40	97	7	4000	StCu	8	-	8	7
Holyhead	1024·3	+3	NW'W	6	bc	49	85	8	1500	St	7	-	7	6
Liverpool (Bidston) ...	1023·4	+2	WNW	5	bc-	47	75	8	2500	Nb	6	-	6	5
Chester (Sealand) ...	1024·2	+3	W	4	bc/p	46	85	5	1500	Cu	7	-	7	*
Harrogate	1022·1	+3	SW	1	b	41	92	5	2500	Cu Nb	1	-	1	*
Spurn Head	1020·4	+1	NW'W	5	bc	45	92	6	-	-	0	Ast	-	3
Birmingham (Edgbaston)	1024·6	+2	W	4	b	41	85	8	-	-	0	-	-	*
Cranwell	1022·9	+3	W	4	b	39	92	7	-	-	0	Ast	-	4
Gorleston	1021·5	+2	W'N	3	b-	44	85	7	-	-	0	-	-	0
Valentia (Cahirciveen) P	1030·4	+2	W NW	4	cr	50	65	8	1500	Cu Nb	9	-	9	4
Roches Point	1025·8	+3	N	3	b	45	97	8	-	-	0	-	-	0
Pembroke (St. Ann's H.)	1024·0	+2	NW	3	bc+	50	92	8	2500	Cu	3	-	3	2
Ross-on-Wye	1023·1	+3	WNW	2	b	41	85	8	4000	Cu	1	-	1	*
Leafield	1024·8	+2	W'N	4	b	39	85	9	-	-	0	ACu	1	*
Winchester (Worthy Dn.)	1025·2	+3	NW	3	b	39	92	8	-	-	0	CSt	2	*
S. Farnborough ...	1024·8	+4	W	1	b	35	97	8	-	-	0	Ci	1	*
London (Kew Obsy.) ...	1024·9	+5	W	1	b	42	92	6	-	-	0	CSt	1	*
Croydon	1024·4	+4	NW'W	2	b-	42	97	6	-	-	0	Ci	2	*
Shoeburyness	1014·0	+3	WNW	2	b/r	43	85	7	-	-	0	Ci	1	*
Clacton-on-Sea ...	1022·5	+2	WNW	3	bc	44	92	7	4000	Cu	3	-	3	0
Felixstowe	1023·1	+2	WNW	3	b	44	97	7	-	-	0	ACu	1	*
Lympne	1013·2	+2	NNW	3	b-	44	92	6	4000	StCu	1	Ci	1	*
Scilly (St. Mary's) ...	1029·4	+2	NW	4	bc	50	75	8	4000	Cu	3	-	3	4
Falmouth (Pendennis)	1029·3	+3	NNW	3	bc	49	75	8	4000	Cu Nb	4	-	4	*
Plymouth (Mt. Batten)	1027·9	+3	NNW	1	b	44	85	8	4000	Cu Nb	1	-	1	*
Portland Bill	1025·1	+3	NW	4	b-	49	75	8	4000	StCu	2	-	2	3
Southampton (Calshot)	1025·7	+4	WNW	2	b	42	92	7	2500	Cu	1	-	1	0
Dungeness	1013·2	+3	N	3	bc-	46	97	8	2500	Cu Nb	3	CuCu	5	2
Guernsey (St. Peter Port)	1027·6	+3	NW	3	bc-	51	85	8	4000	StCu	4	-	4	2

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-1st to 9h. 2nd. °F.	Temperature. Max. 9h.-17h. 2nd. °F.	Rainfall† Night 17h.-9h. 2nd. mm.	Rainfall† Day 9h.-17h. 2nd. mm.	Sunshine. Sunrise to Sunset. 2nd. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	cr.c	46	53	2	0·6	0.0
Douglas (I. o. M.) ...	o	prc	49	54	6	1	0.0
Llandudno ...	c	cp	43	56	-	1	0.1
Colwyn Bay ...	cbcb	c	47	55	-	-	0.4
Rhyl	bcc	bc	39	58	-	-	0.0
Wallasey	fbcc	cp.c	36	54	-	Trace	0·1
Southport	ppr	p	41	53	-	0.6	0.0
Blackpool	od	o	35	52	-	1	0.0
Morecambe ...	o	oddo	33	51	-	1	0.0
Ilkley	o	o	27	51	-	-	0.0
Cleethorpes	bm	bog	30	48	-	-	3.0
Mablethorpe. ...	bxwm	bcom	32	47	-	-	4.8
Skegness	bxm	bco	29	47	-	-	4·2
Aberystwyth ...	oc	oc	43	54	-	-	0.0
Bath	mb	bcc	28	51	-	-	2.7
Cheltenham ...	bc	co	27	49	-	-	1.7
Leamington Spa ..	c	c	26	46	-	-	1·5
Lowestoft	cocbc	bcbbc	42	50	-	-	3.5
Harwich & Dovercourt	pc	bc	43	49	-	-	3.7
Maldon	cbcb	cb	38	50	-	-	3·2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	oc	o	40	53	-	-	0.7
Bude	oc	ode	36	54	-	Trace	0.0
St. Ives	o	d	43	55	-	0.5	0.0
Penzance	cod	or	43	55	-	1	0.0
Paignton	wbm	bco	32	54	-	-	1.4
Torquay	bmw	bcome	37	54	-	-	1·2
Jersey	bc	bcc	36	51	-	-	1.7
Weymouth	mfb	bbc	33	55	-	-	4.5
Bournemouth ...	mb	bbco	31	53	-	-	4.3
Ventnor ...	obcz	cbu	40	54	-	-	5.9
Portsmouth (S'thsea)	bcb	bbc	35	52	-	-	5·1
Bognor Regis ..	bcb	bbc	38	52	-	-	4.0
Littlehampton ...	bc	bc	36	51	-	-	4.5
Worthing	cbc	bc	38	52	-	-	3.7
Brighton	mbc	bbc	38	51	-	-	3.5
Eastbourne	ocbc	bbc	41	50	-	-	2·7
Hastings	cbc	bcbbc	40	49	-	-	2.5
Folkestone	cbc	bc	42	53	-	-	2.2
Dover	cbc	bc	43	50	-	-	2·2
Deal	o	bcoc	42	49	-	-	1.7
Tunbridge Wells ...	bc	bc	30	50	-	-	4·0
Ramsgate	c	cbc	45	49	-	-	2.3
Margate	cbc	bc	44	51	-	-	2.5
Southend	cmc	cbcm	41	53	-	-	3.7

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* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. † For explanation 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 24819 MONDAY 4th NOVEMBER 1929.

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

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1010.2	+2	WNW	3	bcjp	45	65	8	1500	CuNb	3	A.Cu	6	•
St. Kilda	1012.2	+4	NW	4	bc+	48	75	8	4000	CuNb	5	A.St	7	•
Wick	1013.3	+5	WNW	1	b c/r	47	75	8	7500	CuNb	3	CiSt	5	•
Tiree	1023.3	+3	NW'W	6	bcjp	49	65	7	2500	CuNb	6	CiSt	7	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1010.1	+3	W	4	b	48	65	8	4000	Cu	1	Ci	1	•
Malin Head	1026.3	+3	NNW	5	bc/pR	47	92	8	2500	CuNb	2	Ci Cu	7	•
Renfrew	1023.5	+3	W	3	bc-	48	75	7	5700	StCu	4	Ci	7	2
Edinburgh (Inchkeith)	1020.9	+3	W	4	bc	48	75	8	4000	Cu	2	A Cu	3	•
Leuchars	1021.1	+2	WNW	3	bc+	49	65	8	2500	CuNb	4	Ci	5	1
Eskdalemuir	1024.1	+2	W	5	cr	42	75	8	1500	Nb	9	-	9	2
Tynemouth	1023.1	+3	W	3	bc	50	75	7	2500	Cu	3	-	3	•
Blacknod Point	1029.8	+4	WNW	4	bc	52	65	8	•	Cu	4	-	4	•
Donaghadee	1025.5	+1	WNW	3	bc+	50	75	8	4000	Cu	3	CiSt	4	•
Birr Castle	1030.3	+2	NW	3	bc	51	65	8	4000	Cu	7	-	7	•
Holyhead	1027.5	+2	NW'W	5	b	51	75	8	2500	Cu	1	Ci	1	1
Liverpool (Bidston)	1026.7	+2	WNW	5	bc	49	65	8	2500	StCu	5	-	5	•
Chester (Sealand)	1026.8	+2	WNW	4	bc/pR	48	75	6	1500	St	7	-	7	1
Harrogate	1024.4	+2	WSW	3	bc+	50	65	8	2500	CuNb	6	-	6	•
Spurn Head	1023.6	+1	NW'N	4	bc	49	85	7	4000	Cu	3	-	3	•
Birmingham (Edgbaston)	1027.0	+2	NW	4	bc	49	65	6	2500	Cu	7	-	7	2
Cranwell	1024.3	0	WNW	4	bc-	49	65	6	2500	Cu	3	-	3	1
Gorleston	1023.5	+2	NW	4	bc	51	75	6	5700	Cu	4	-	4	•
Valentia (Cahirciveen)	1033.0	+2	NW	3	c	53	65	8	2500	StCu	7	Ci	8	1
Roches Point	1031.1	+1	N	3	bc	51	85	8	2500	CuNb	4	-	4	•
Pembroke (St. Ann's H.)	1029.1	0	NW	2	bc+	51	92	8	2500	Cu	4	-	4	•
Ross-on-Wye	1027.0	+3	NW	4	b-	52	55	8	4000	Cu	2	-	2	1
Leafield	1026.3	+1	NW	4	bc	50	55	9	4000	Cu	5	-	5	0
Winchester (Worthy Dn.)	1026.4	0	NNW	4	bc	52	65	8	4000	Cu	3	-	3	1
S. Farnborough	1026.6	-1	NW	2	bc	54	55	8	2500	Cu	5	-	5	1
London (Kew Obsy.)	1026.5	0	NNW	4	bc	51	55	6	4000	Cu	3	-	3	1
Croydon	1026.5	+2	NNW	4	b	51	65	6	4000	Cu	2	-	2	1
Shoeburyness	1025.3	0	NW	4	bc+	52	65	7	4000	Cu	3	-	3	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1024.7	+1	NW'W	4	bc	51	75	8	2500	Cu	3	-	3	0
Scilly (St. Mary's)	1025.3	0	NNW	4	bc	50	65	7	2500	Cu	3	-	3	1
Falmouth (Pendennis)	1031.8	+1	N	5	bc	54	75	8	4000	Cu	5	-	5	•
Plymouth (Mt. Batten)	1031.4	0	N'E	4	bc+	51	65	8	4000	CuNb	7	-	7	•
Portland Bill	1029.5	+1	NNW	4	b	53	65	8	4000	CuNb	2	-	2	2
Southampton (Calshot)	1027.0	+1	NW	4	bc+	53	55	9	2500	Cu	4	-	4	0
Dungeness	1026.9	-1	NW	3	b-	52	65	7	2500	Cu	1	A. Cu	1	0
Guernsey (St. Peter Port)	1025.5	+2	NNW	3	bc	53	65	8	2500	Cu	4	-	4	•
	1029.8	+2	NNW	3	bc+	53	65	8	4000	StCu	6	-	6	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1014.2	+6	W'N	2	bcjp	42	75	8	1500	CuNb	4	A Cu	6	•
St. Kilda	1022.0	+5	NW	3	c+	44	92	7	4000	CuNb	3	-	3	1
Wick	1021.1	+6	NNW	3	c/r	40	97	8	1500	CuNb	6	CiSt	8	1
Tiree	1025.8	+3	WNW	4	c	49	75	7	2500	CuNb	8	-	8	4
Nairn	1022.6	•	WNW	2	c+	43	75	8	2500	CuNb	8	-	8	•
Aberdeen	1023.4	+6	WSW	2	b	41	75	8	4000	StCu	1	A.Cu	2	0
Malin Head	1025.1	+2	NNW	4	bc	48	85	8	4000	Cu	2	Ci Cu	3	5
Renfrew	1026.8	+4	WSW	4	bc	44	75	7	4000	StCu	4	-	4	•
Edinburgh (Inchkeith)	1024.3	+3	W	3	bc	46	75	8	2500	St	2	ASt	4	1
Leuchars	1024.7	+5	NNW	3	bc-	44	75	8	2500	StCu	5	Ci	6	•
Eskdalemuir	1027.8	+5	SW	2	bc	38	75	8	2500	StCu	4	-	4	•
Tynemouth	1024.5	+2	NNW	2	bc	43	85	7	2500	Cu	4	-	4	1
Blacknod Point	1030.3	+1	W	3	bc	49	75	8	•	CuNb	7	-	7	5
Donaghadee	1028.5	+3	W	2	b-	43	85	8	4000	Cu	2	-	2	2
Birr Castle	1031.8	+2	NW	3	bc	51	85	8	4000	StCu	2	-	2	•
Holyhead	1029.4	+4	NNW	5	b-	50	85	8	2500	StCu	2	-	2	4
Liverpool (Bidston)	1028.9	+3	NNW	4	bc+	48	85	8	4000	StCu	7	-	7	•
Chester (Sealand)	1028.8	+4	WNW	2	bc-	45	85	7	2500	St	4	-	4	•
Harrogate	1027.9	+4	SW	1	b	42	85	7	-	-	0	A Cu	1	•
Spurn Head	1025.9	+1	NNW	4	b-	47	85	6	-	-	0	ASt	2	1
Birmingham (Edgbaston)	1029.5	+3	WNW	2	b	44	75	5	2500	St	1	-	1	•
Cranwell	1028.3	+4	W	3	b-	41	85	6	5700	StCu	1	-	1	•
Gorleston	1026.4	+5	W'N	1	b	45	85	6	-	-	0	CiSt	2	0
Valentia (Cahirciveen)	1033.8	+2	W'N	1	c+	49	85	8	2500	StCu	9	CiSt	10	1
Roches Point	1033.6	+4	N	3	bc	50	85	8	2500	CuNb	5	-	5	0
Pembroke (St. Ann's H.)	1031.5	+3	NW	1	bc+	51	85	8	2500	Cu	6	-	6	1
Ross-on-Wye	1029.9	+4	W'N	2	b-	45	75	8	-	-	0	ASt	1	•
Leafield	1029.6	+3	NNW	2	b	40	75	8	-	-	0	ACu	1	•
Winchester (Worthy Dn.)	1029.6	+4	NW'N	3	bc	41	85	8	-	-	0	CiSt	3	•
S. Farnborough	1029.5	+5	W	1	b	41	85	7	-	-	0	Ci	1	0
London (Kew Obsy.)	1029.5	+5	WNW	2	b	46	65	5	-	-	0	-	1	•
Croydon	1029.0	+4	NW'W	2	mmb	44	75	4	-	-	0	Ci	2	•
Shoeburyness	1028.5	+4	-	0	b-	43	85	7	-	-	0	ASt	1	•
Clacton-on-Sea	1027.3	+3	WNW	3	b	46	85	6	4000	Cu	2	-	2	1
Felixstowe	1027.7	+4	W'N	1	b	47	85	7	2500	StCu	1	-	1	0
Lympne	1028.3	+5	N'W	3	b	42	85	6	-	-	0	ACu	1	•
Scilly (St. Mary's)	1032.5	+1	N'W	5	bc	50	75	8	4000	Cu	3	-	3	2
Falmouth (Pendennis)	1032.4	+2	N'W	5	bc-	49	75	7	4000	CuNb	4	-	4	1
Plymouth (Mt. Batten)	1031.9	+4	-	0	b	49	85	7	-	-	0	Cu	1	0
Portland Bill	1029.6	+2	NW	3	bc+	51	75	8	2500	StCu	3	CiSt	5	3
Southampton (Calshot)	1029.3	+4	NW'N	3	b+	47	75	7	4000	StCu	2	-	2	2
Dungeness	1028.7	+4	N	2	bc-	43	85	8	2500	StCu	3	-	3	3
Guernsey (St. Peter Port)	1031.8	+4	W	1	bc	51	75	8	2500	StCu	4	-	4	1

LONDON OBSERVATIONS.

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

	Height above M.S.L. feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility. 9h. G.M.T. 0-9
		24 HOURS ENDED 9h.								YESTERDAY.			TO-DAY.
Kew	18	bmwbc	bcrbc	bzbm	52	32	23	-	-	6.6	•	•	4
Croydon	244	bzc	bzcbm	bmwm	51	34	32	-	Tr.	6.6	•	•	5
Greenwich (Royal Obsy.)	149	bmz	bzm	bmxc	52	33	24	-	Tr.	5.9	61	85	3
City (Bunhill Row)	39	•	•	•	•	•	•	•	•	6.1	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	54	34	29	-	-	6.7	68	93	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	5.6	•	•	•
Camden Square	110	bbc	bc	•	53	37	•	-	-	•	(At 18h) 78.	92	•
Kensington Palace	80	bc	bc	•	52	34	25	-	-	•	•	91	•
Hampstead Observatory	450	•	•	•	52	32	25	Tr.	0.2	7.1	•	92	•

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

4th Nov. Prev., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.56	11.37	16.17
Greenwich	6.58	11.37	16.15
Wick	7.0	11.44	16.27
Valentia	7.1	11.44	16.25
	7.36	11.56	16.15
	7.39	11.56	16.13
	7.42	12.25	17.5
	7.44	12.25	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.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r) = "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain. rr = continuous rain.

SYMBOLS.

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

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

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
1.0	12h 3rd	0.3	4h 4th

Kew Observatory

Max.	Time.	Min.	Time.
0.5	23h 3rd	0.1	12h 3rd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 3d 17h 15m. to 4d 6h 15m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	12.58	100
β Ursae Minoris	13.0	12.58	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 18h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7 = Snow (thin layer, often not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer).
9 = Glazed roads (ice on roads from frozen rain or melted snow).

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.

	Objects not visible at 55 yards.
0. Dense fog.	220 yards.
1. Thick fog.	550 „
2. Fog.	1,100 „
3. Moderate fog.	1¼ miles.
4. Mist or haze.	2½ „
5. Poor visibility.	5½ „
6. Moderate.	11 „
7. Good.	22 „
8. Very good.	33 „
9. Excellent visibility, beyond 33 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.

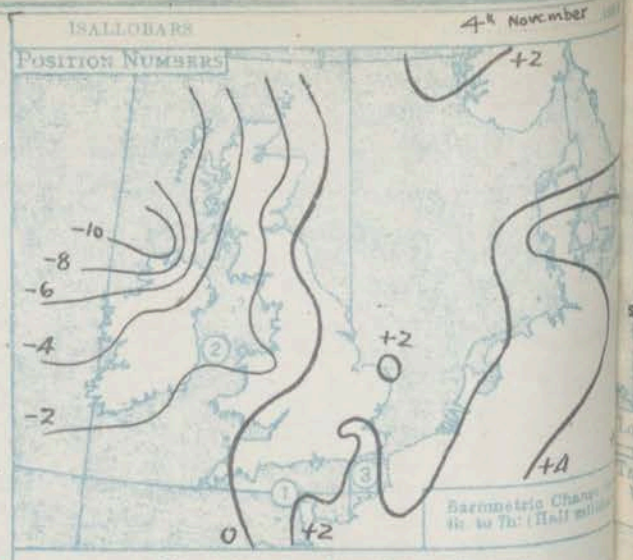
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 3rd	18h.-18h. 3rd	18h. 3rd to 1h. 4th	1h.-7h. 4th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN. 3rd Hours.
Lerwick	bcphr$_0$	bcphr$_0$	c	cphr	49	42	•	1	<8.00	1	1.30	3.5
Stornoway	bcpr$_0$bc	bcprc	cprc	copr$_0$	48	43	•	1	<8.00	0.6	<21.00	3.0
Wick	bcpr	bcprc	bcpr	b-bc	47	40	•	1	<8.00	0.5	22.00	•
Tiree	c	pr$_0$bc	cp'R	crRr	50	46	40	Tr	14.30	3	<21.00	4.5
Nairn	bcpr	bcdc	cbc	bcc	45	40	•	0.4	<8.00	-	-	1.2
Aberdeen	bxb	bbcb	bbcc	bc	48	38	31	-	-	-	-	5.2
Malin Head	bcpr$_0$	bc	bccpr$_0$	cirm$_0$	50	44	•	1	<8.00	3	<21.00	5.0
Renfrew	bccpbcc	bccbc	bcb	bccd$_0$	50	37	30	0.5	<8.00	Tr.	5.30	2.7
Edinburgh(Inchkeith)	bbc	bbc	bcb	bbcc	49	43	41	-	-	-	-	6.0
Leuchars	bxbbc	bccbc	bcc	cbcc	49	37	33	-	-	-	-	5.2
Eskdalemuir	bbccr	bcsprbc	bcc	c	46	35	30	2	12.30	Tr.	-	4.0
Tynemouth	bc	bc	bc	bcm$_0$	51	40	35	-	/	-	-	•
Blacksod Point ...	bc	pc	co	rr	53	~~60~~	~~49~~	0.2	14.30	4	•	•
Donaghadee	bbc	bccbc	bbc	coir	51	40	•	-	-	1	5.30	•
Birr Castle	cr$_0$bc	bcb	bc	corr	51	35	•	Tr	<8.00	1	6.30	6.7
Holyhead	bcb	bbc	bbc	bcc	54	48	44	-	-	-	-	6.7
Liverpool (Bidston)...	bc	bcc	bcp$_0$c	c	50	44	40	-	-	Tr.	<21.00	~~6.0~~ 5.8
Chester (Sealand) ...	cp$_0$pr$_2$	bccz$_0$bc	bcpr$_0$	cm$_0$	51	37	30	0.5	<8.00	Tr.	<21.00	3.5
Harrogate	bbc	bcb	b	bbcc	51	38	29	-	-	-	-	7.2
Spurn Head	bc	bc	bc	bc	50	41	•	-	-	-	-	7.8
Birmingham(Edgbaston)	bbc	bbc	b	bbc	50	37	33	-	-	-	-	5.1
Cranwell	bcz$_0$	bcz$_0$b	bm$_0$w	bwbc	50	36	34	-	-	-	-	6.1
Gorleston	bbc	bcb	b	bbcm$_0$	52	34	32	-	-	-	-	7.2
Valentia(Cahirciveen)	cpcp$_2$	cbcc	c	cod	53	48	44	1	<8.00	1	6.30	2.8
Roches Point	bbc	bc	bcb	bbcc	53	48	•	-	-	-	-	•
Pembroke(St.Ann's Hd.)	bc	bc	bc	bcc	54	47	•	-	-	-	-	6.4
Ross-on-Wye	bbcby	bbcycb	bbw	bmxcmx	52	31	23	-	-	-	-	7.5
Isetfield	bbc	bc	b	bbc	50	35	24	-	-	-	-	7.3
Winchester (Worthy Dn.)	bbc	bc	bcb	bbcx	52	28	21	-	-	-	-	7.7
S. Farnborough ...	xbbc	bcyb	bwx	bbcxf	54	30	20	-	-	Tr.	-	7.6
London (Kew Obsy.)...	bm$_0$wbcy	bcz$_0$bz	bebm$_0$	bmwbcmx	52	32	23	-	-	-	-	6.6
Croydon	bz$_0$	bcz$_0$bm	bmwm$_0$	bmwbcx	51	34	32	-	-	Tr.	-	6.6
Shoeburyness... ...	bbc	bcb	b	bcxm$_0$	54	35	27	-	-	-	-	7.4
Clacton-on-Sea ...	bc	bcbz	bz	bbcz	53	36	32	-	-	-	-	8.0
Felixstowe	bbc	bcb	b	bm$_0$w	52	37	34	-	-	-	-	7.7
Lympne	bcm$_0$b	bccbm$_0$	bm$_0$x	bm$_0$x	50	33	28	-	-	-	-	7.0
Scilly (St. Mary's) ...	bc	bc	bcpr$_0$	bc	54	45	•	-	-	1	22.00	7.9
Falmouth (Pendennis)	bcp$_0$	bc	bc	bc	53	45	•	Tr	<8.00	-	-	7.2
Plymouth(Mt.Batten)	bqq	b	b	bbxwc	54	35	33	-	-	Tr.	-	8.2
Portland Bill	bbc	bc	b	bbc	55	44	•	-	-	-	-	•
Southampton(Calshot)	b	bbyb	bbw	bwxm$_0$	52	34	29	-	-	-	-	7.7
Dungeness	bc	bc	bcbmm	bmbc	53	32	•	-	-	-	-	•
Guernsey	bcc	cbc	cbcc	cmbc	55	41	33	-	-	-	-	8.3

† For code see page 1

‡ Trace = rain has fallen, but amount less than 0.01 in.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.
3	4th 2h	Brighton	NE	3	bc	51	56

GENERAL INFERENCE.

A deep depression centred south of Iceland is moving eastward. Weather is likely to be unsettled generally with freshening southerly winds and some rain in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 4th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Winds becoming fresh southwesterly or southerly, strong at times; cloudy, some rain; moderate temperature.	Unsettled.
6. South Wales 7. North Wales 8. N.W. England	Strong southerly to southwesterly, winds, cloudy; some rain; moderate temperature.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Fresh to strong southerly or southwesterly winds; cloudy, some rain; moderate temperature.	▼ South cone hoisted 8h.10 G.M.T. this morning.
12. S.W. Scotland & Isle of Man 13. (A. W.Scotland ▼ (B. NW.Scotland ▼ 14. Mid-Scotland 15. N.E.Scotland ▼ 16. Orkneys and Shetlands ▼ 17. N.W. Ireland ▼ 18. N.E. Ireland	Strong southerly to southwesterly winds, reaching gale force at times; cloudy, some rain; moderate temperature.	
19. S.E. Ireland 20. S.W. Ireland	As 6 - 8.	Wdf.

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

SYNOPTIC CHART FOR 7h. MONDAY, 4TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles. 100 0 100 200

Statute Miles. 100 0 100 200

LOW
994
996
998
(42) 37 Heavy Showers

1010 1008 1006 1004 1002 1000

(0) 30 Fine -4

Barometer HIGH

(0) 32 Fine -3

Barometer

(27) 36 Cloudy

(35) 39 Rain -4

Falling

Rising

(21) 41 Cloudy

(0) 27 Fine

(0) 37 Ocast -1

LOW

Barometer

(5) 46 Cloudy

(15) 43 Fine

Barometer

(15) 46 Rain

(10) 43 Cloudy

43 (10) Fine

Falling

(5) 41 Fine

Rising

(10) 47 Drizzle

(10) 46 Cloudy

(27) 46 Rain

(5) 42 Fine

(27) 52 Rain

Briskly

Slowly

37 (5) Fine

(10) 43 Fine

(2) 45 Rain

(21) 50 Cloudy

(15) 48 Cloudy

(10) 38 Cloudy

(10) 35 Fine

LACONIA (35) Sea 55 56 O'cast

(15) 50 Drizzle

(5) 51 Cloudy

(2) 34 Fine

Barometer

BERENGARIA (15) 58 Sea 51 Cloudy

LANCASTRIA 52 (21) Sea 54 Cloudy

(10) 48 Fine

(2) 34 Cloudy

(15) 46 Fine

(15) 39 Fog

(0) 41 Fine

(0) 39 Fog

Rising

HIGH

(0) 32 Mist

(5) 36 Fine

41 (5) O'cast

(0) 34 Mist

(15) 45 Fine

(10) 41 O'cast

Slowly

41 (2) Thick Fog

45 (5) Cloudy

(5) 45 Drizzle

LOW

(2) 46 Fine

1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022 1024 1026 1028 1030 1032 1034

(45) jp

(41)

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 ⅞ clouded. ◕ sky more than ⅞ clouded. ● overcast sky. ⊜ rain falling. ▲ snow. ≡ fog. ≡ mist. ⚡ thunder. ⚡ thunderstorm.

SEA DISTURBANCE. ~ Rough. ≈ Very Rough.

ICELAND barometric change from 4h. to 7h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Monday, 4th November 1929. No. 308

Observations at 1h. G.M.T. 4th

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	34	1015·8	+1	W	1	c	43	65	7	1500	StCu	5	ASt	9
Stornoway	30	1020·8	-2	NW	3	c	*	*	7	*	*	*	*	8
Wick	81	1019·9	-2	WNW	2	bc	43	92	8	4000	StCu	3	CiSt	5
Tiree	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1027·2	-2	WSW	4	cjp	48	85	8	4000	CuNb	3	ASt	10
Renfrew	35	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1025·0	0	WSW	4	b	44	92	8	1500	St	1	ACu	2
Lenchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1027·5	+1	W	2	bc	41	92	7	2500	Cu	3	-	3
Blacksod Point	18	1027·1	-3	S	4	c	51	65	6	*	-	0	ASt	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1030·5	0	W'S	4	bc	48	85	7	4000	StCu	4	-	4
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	1027·8	0	NW	4	(bc+)	42	85	6	800	StCu	6	StCu	6
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	256	1030·0	+1	W'S	3	b	38	92	5	-	-	0	-	0
Gorleston	14	1029·1	+2	W'N	3	b	38	85	6	-	-	0	-	0
Valentia (Cahirciveen)	30	1032·5	0	SW	2	0	51	92	7	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1031·6	0	NW	1	bc+	50	92	8	4000	Cu	5	-	5
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	37	*	*	*	*	*	*	*
Croydon	344	1031·7	+2	W'S	2	b	37	92	6	-	-	0	-	0
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1030·7	+3	NNW	3	b	35	97	5	-	-	0	-	0
Scilly (St. Mary's)	163	1034·4	0	NNW	3	bc	49	92	8	4000	Cu	4	-	4
Falmouth (Pendennis)	200	1034·2	0	-	0	bc	47	75	7	4000	CuNb	3	-	3
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1031·7	0	NNW	3	b	47	75	8	-	-	0	-	0
Southampton (Calshot)	10	1032·7	+2	NW'W	3	b	42	85	7	-	-	0	-	0
Dungeness	20	1030·9	+3	NNE	2	mmb	36	92	4	-	-	0	-	0
Guernsey (St. Peter Port)	173	1034·0	+2	-	0	bc+	48	85	8	4000	StCu	6	-	6

Observations at 7h. 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‡ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun 0-8
Lerwick	1014·6	0	SW	2	c/p	45	75	7	1500	CuNb	5	ASt	8	*
Stornoway	1015·1	-6	SW	4	or.	46	97	7	2500	Nb	10	-	10	2
Wick	1018·5	-2	SW	3	C	43	92	8	2500	StCu	7	ASt	9	0
Tiree	1019·0	-6	SSW	5	CRR	47	92	7	2500	Nb	9	ASt	10	4
Nairn	1017·8	•	W	1	C	44	85	8	1500	CuNb	8	-	8	*
Aberdeen	1021·4	-2	SSW	2	bc	41	85	7	-	-	0	Fm	7	0
Malin Head	1018·6	-11	SSW	6	Cr.r.	46	97	5	2500	Nb	6	ASt	10	6
Renfrew	1023·3	-3	SW	3	od.	47	85	7	800	St	10	-	10	*
Edinburgh (Inchkeith)	1023·1	-2	SW	4	c	47	85	7	800	St	3	ASt	8	2
Lenchars	1022·6	-1	SW	4	C	44	92	7	2500	Stu	5	ASt	10	*
Eskdalemuir	1025·5	-2	WSW	4	C	42	92	7	800	St	7	ASt	9	*
Tynemouth	1025·8	0	WSW	2	bc	42	92	5	800	St	4	-	4	*
Blacksod Point	1021·3	-6	S	6	or+	52	92	7	*	Nb	10	-	10	0
Donaghadee	1024·8	-3	SW	1	or	44	92	7	1500	St	10	-	10	1
Birr Castle	1027·2	-3	S	1	or+	45	92	6	4000	Nb	10	-	10	*
Holyhead	1028·1	-2	SW	5	C	50	75	8	2500	Stu	2	ASt	10	2
Liverpool (Bidston)	1028·7	0	SW'W	3	C	45	85	7	2500	Cu	2	ASt	10	*
Chester (Sealand)	1028·5	-2	SW'S	2	c	43	92	5	2500	St	4	ASt	10	*
Harrogate	1028·3	-1	SSW	2	C	42	92	7	2500	Nb	1	CiSt	8	*
Spurn Head	1028·0	0	WNW	3	bc	43	97	6	1500	Stu	2	CiSt	5	1
Birmingham (Edgbaston)	1031·3	-1	SW	3	C+	38	97	7	-	-	0	ASt	5	*
Cranwell	1030·4	+1	SW'W	3	bc+	38	92	6	-	-	0	CiSt	6	*
Gorleston	1030·0	+2	WNW	3	bc	35	92	6	2500	St	5	-	5	0
Valentia (Cahirciveen)	1027·7	-3	S	4	od	60	92	6	450	St	10	-	10	4
Roches Point	1029·4	-3	W	3	C	51	85	8	4000	Stu	9	-	9	0
Pembroke (St. Ann's H.)	1030·6	-1	WSW	2	C+	51	92	8	1500	St	7	Fm	9	*
Ross-on-Wye	1031·4	0	SW	1	C	33	97	5	-	-	0	ASt	9	*
Leafield	1031·6	0	WSW	2	c	39	85	7	-	-	0	CiSt	9	*
Winchester (Worthy Dn.)	1032·5	+1	-	0	bc	30	92	7	-	-	0	ASt	7	*
S. Farnborough	1032·2	0	-	0	§bc+	31	97	3	-	-	0	CiSt	7	*
London (Kew Obsy.)	1032·8	+2	SW	1	bc-	34	92	5	-	-	0	CiSt	5	*
Croydon	1032·5	+1	SW	2	bc+	34	97	6	-	-	0	Ci	4	*
Shoeburyness	1032·0	+2	W	2	bc+	37	92	6	-	-	0	CiSc	5	1
Clacton-on-Sea	1030·9	+1	W	3	bc	37	92	6	-	-	0	Fm	5	0
Felixstowe	1030·9	+1	W'S	1	b	38	97	5	-	-	0	Ci	2	*
Lympne	1031·5	+2	NNW	3	bc+	35	97	5	-	-	0	Ci	4	*
Scilly (St. Mary's)	1033·3	-1	W'S	4	bc	49	85	8	4000	Cu	2	Fm	5	1
Falmouth (Pendennis)	1033·5	-1	W'N	3	bc+	46	85	8	4000	Stu	7	-	7	0
Plymouth (Mt. Batten)	1033·4	0	-	0	C+	36	97	8	2500	Cu	7	Ci	8	3
Portland Bill	1031·7	0	NNW	3	bc+	48	75	8	2500	Stu	2	Cim	4	0
Southampton (Calshot)	1032·9	0	-	0	b	35	97	6	-	-	0	ASt	2	2
Dungeness	1031·9	+3	NW	1	bc+	35	92	6	-	-	0	Cim	5	1
Guernsey (St. Peter Port)	1034·0	+1	-	0	bc	41	92	8	2500	Stu	4	-	4	*

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

STATIONS.	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h.-2nd to 9h. 3rd °F.	TEMPERATURE. Max. 9h.-17h. 3rd °F.	RAINFALL† Night 17h.-9h. 2nd-3rd mm.	RAINFALL† Day 9h.-17h. 3rd mm.	SUNSHINE. Sunrise to Sunset. 3rd hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	39	50	-	-	7.4
Douglas (I. o. M.)	b	bc	44	50	1	-	6.1
Llandudno	bc	bcc	46	56	3	-	4.8
Colwyn Bay	cbcb	b	45	51	5	-	3.6
Rhyl	bc	bc	46	52	4	-	3.7
Wallasey	bcb	bbc	45	52	2	-	5.7
Southport	bcb	bbcco	*47	51	1	-	5.8
Blackpool	cbc	bcc	43	52	1	-	6.1
Morecambe	bccir	bdir	44	50	1	1	3.2
Ilkley	b	b	38	51	3	-	5.3
Cleethorpes	b	b	40	51	0.1	-	7.7
Mablethorpe	bvimb	bbmo	35	48	0.3	-	7.7
Skegness	ocb	bc	36	51	1	-	6.7
Aberystwyth	rc	c	48	51	1	-	6.1
Bath	b	bbc	30	54	Trace	-	8.5
Cheltenham	b	bbc	37	53	-	-	8.0
Leamington Spa	c	cm	35	50	1	-	4.6
Lowestoft	codc	b	41	51	1	-	7.7
Harwich & Dovercourt	rbc	bm	43	52	1	-	8.0
Maldon	b	b	40	51	1	-	7.8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcb	b	46	53	0.4	-	6.8
Bude	wbcp	bc	50	53	0.4	Trace	6.8
St. Ives	c	c	49	55	1	-	5.9
Penzance	b	bpro	48	56	1	0.2	8.1
Paignton	dopwb	bbcmo	38	56	Trace	-	8.6
Torquay	dopbw	mb	43	56	Trace	-	8.5
Jersey	bc	bc	45	56	3	-	8.3
Weymouth	b	b	41	55	-	-	8.1
Bournemouth	b	b	36	54	0.3	-	8.0
Ventnor	db	bbc	43	54	1	-	8.1
Portsmouth (S'thsea)	b	b	43	53	0.4	-	8.0
Bognor Regis	b	b	42	54	1	-	8.6
Littlehampton	b	bbc	42	55	1	-	8.3
Worthing	b	b	43	53	1	-	8.3
Brighton	b	bm	43	54	2	-	8.3
Eastbourne	b	b	45	54	3	-	8.3
Hastings	mbcb	bcm	44	52	3	-	6.7
Folkestone	bbc	bc	43	53	4	-	7.3
Dover	bcbbc	bcm	45	52	3	-	7.5
Deal	b	b	40	51	2	-	6.9
Tunbridge Wells	b	bbm	36	52	1	-	7.6
Ramsgate	b	b	47	52	3	-	7.7
Margate	bbc	bc	42	51	3	-	7.4
Southend	bm	bm	43	55	1	-	7.8

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24820. Tuesday 5th November, 1929.

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1011·1	-4	S	2	orr	47	92	6	1500	Nb	10	-	10	*
Stornoway	1006·6	-9	SSW	4	odd	62	97	5	2500	Nb	10	-	10	*
Wick	1011·0	-7	SSW	6	c	48	85	8	2500	StCu	8	Ast	10	*
Tiree	1012·6	-3	WSW	6	cd-	53	97	6	220	St	9	Ast	10	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1015·2	-7	SSW	3	cr	45	85	6	800	Nb	5	Ast	10	1
Malin Head	1015·9	-2	SW	6	c	55	92	7	2500	StCu	9	-	9	*
Renfrew	1017·7	-7	SSW	5	crr	47	92	6	800	Nb	9	Ast	10	2
Edinburgh (Inchkeith)	1017·6	-5	SW	4	or.	47	85	8	1500	St	10	-	10	*
Lanchars	1017·3	-7	SSW	3	orr	46	92	7	800	Nb	10	-	10	2
Eskdalemuir	1020·9	-5	SSW	5	orr	44	92	6	800	Nb	10	-	10	2
Tynemouth	1021·6	-4	WSW	2	orr.	47	92	4	1500	Nb	10	-	10	*
Blacksod Point	1016·8	-3	S	5	c	57	85	8	*	-	0	Ast	10	*
Donaghadee	1019·6	-3	SW	3	c	49	85	7	4000	StCu	9	-	9	*
Birr Castle	1022·9	-3	SW	3	cr.	53	85	8	2500	St	9	-	9	*
Holyhead	1024·5	-5	SSW	6	cdd	50	97	5	800	Nb	9	Ast	10	1
Liverpool (Bidston)	1025·4	-5	SW	3	orr.	49	85	8	2600	Nb	10	-	10	*
Chester (Seasland)	1026·1	-4	S'E	2	crr.	49	92	6	1500	St	10	-	10	2
Harrogate														
Spurn Head	1025·4	-2	SSW	4	ffo	46	85	3	150	St	10	-	10	*
Birmingham (Edgbaston)	1026·7	-1	WSW	4	C+	47	92	6	4000	StCu	7	Cist	10	*
Cranwell	1028·8	-2	SSW	3	c/pr	46	92	5	2500	Nb	3	Ast	10	2
Gorleston	1027·9	-4	SW	3	C.	48	75	6	4000	St	6	Ast	10	1
	1030·8	0	SW	3	c	~~45~~ 48	85	6	-	-	0	Ast	10	*
Valentia (Cahirciveen)	1022·9	-6	S'E	5	odd	55	97	6	450	St	10	-	10	2
Roches Point	1026·6	-4	SW	3	odd	61	97	5	800	St	10	-	10	*
Pembroke (St. Ann's H.)	1028·1	-3	WSW	4	C+	53	97	8	1600	StCu	10	-	10	*
Ross-on-Wye	1028·4	-3	SW	3	cr.	49	85	6	2500	Nb	2	Ast	10	1
Leafield	1029·8	-1	SW'S	3	C	44	86	6	4000	StCu	2	Ast	10	0
Winchester (Worthy Dn.)														
S. Farnborough	1031·2	-2	ESE	1	mmc	45	85	4	4000	StCu	2	Ast	10	1
London (Kew Obsy.)	1031·2	-1	SW'W	3	C	49	75	7	4000	StCu	1	Ast	10	1
Croydon	1031·3	-2	SW	2	C	47	85	5	-	-	0	Ast	10	1
1031.0	~~1032.0~~	0	SW'W	2	C	49	75	6	7200	StCu	7	Ast	10	1
Rosbury Ness	1031·2	-1	WSW	2	C+	50	75	6	4000	St	7	Ast	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1030·8	-2	SW'S	3	C	48	86	6	-	-	0	Ast	10	0
	1031·4	-2	SW'S	2	C+	49	65	7	-	-	0	Ast	10	1
Scilly (St. Mary's)	1031·2	-2	SW'W	5	C	52	~~65~~ 75	8	4000	StCu	8	-	8	*
Falmouth (Pendennis)	1032·4	-1	SW'W	4	C+	53	65	8	4000	Cu	3	Cist	8	*
Plymouth (Mt. Batten)	1031·3	-3	SW	4	C	55	75	7	2500	Nb	2	ACu	8	2
Portland Bill	1030·9	-1	SW	3	C+	53	75	8	1500	CuNb	8	Ast	9	*
Southampton (Calshot)	1031·9	-1	SW	1	C	51	75	6	4000	StCu	3	Ast	9	0
Dungeness	1032·1	-2	SW'W	2	C⊕	52	65	7	-	-	0	Ast	9	*
Guernsey (St. Peter Port)	1033·8	-2	-	0	bc+	55	65	8	4000	StCu	4	ACu	6	*

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sct. 0-9
Lerwick	1006·3	-9	S	3	orr.	48	92	7	1500	Nb	10	-	10	*
Stornoway	1004·3	-3	SW	5	o/r	54	92	7	1500	Nb	10	-	10	3
Wick	1006·2	-1	SW	3	c	49	92	8	1500	Nb	5	Ast	10	3
Tiree	1009·6	-3	SW'W	6	c	54	92	6	450	St	8	Ast	10	6
Nairn	1007·2	*	WSW	3	bc	54	85	8	1500	CuNb	7	-	7	*
Aberdeen	1010·4	-5	S	3	bc-	48	92	6	-	-	0	Ast	6	0
Malin Head	1012·3	-3	SW'S	5	cd.	55	97	7	2500	StCu	9	-	9	4
Renfrew	1015·5	+1	SSW	4	cd	51	97	6	800	Nb	7	Ast	10	*
Edinburgh (Inchkeith)	1013·2	-4	SW	4	c	53	92	8	1500	St	4	Ast	10	2
Lanchars	1013·1	-3	SW	5	c	51	85	6	450	Nb	9	Ast	10	*
Eskdalemuir	1017·0	-2	SW	4	odd	48	97	6	450	Nb	10	-	10	*
Tynemouth	1017·9	-3	SW	2	o/r	52	85	6	1500	Nb	10	-	10	1
Blacksod Point	1012·2	-2	S	6	c	56	85	7	*	-	0	Ast	10	7
Donaghadee	1016·2	-3	SW	2	c	51	92	7	4000	StCu	9	-	9	1
Birr Castle	1018·6	-3	SW	4	o	54	85	7	2500	St	10	-	10	*
Holyhead	1021·3	-3	SW'S	6	c/d	53	92	6	800	St	9	Ast	10	5
Liverpool (Bidston)	1021·9	-4	WSW	5	c-	51	97	8	2500	Nb	9	-	9	*
Chester (Seasland)	1021·9	-4	WSW	5	bc-	52	85	8	800	St	6	-	6	*
Harrogate	1022·0	-2	S	2	odd	47	92	5	2500	St	10	-	10	*
Spurn Head	1023·1	-2	SW'W	4	o.	47	92	6	2500	Nb	10	-	10	1
Birmingham (Edgbaston)	1025·6	-3	SSW	2	c	47	92	7	-	-	0	Ast	10	*
Cranwell	1024·8	-2	SW	4	c	48	85	6	1500	St	9	Ast	10	*
Gorleston	1027·3	-3	SSW	3	o	46	85	5	1500	St	10	-	10	0
Valentia (Cahirciveen)	1018·8	-5	S	6	odd	55	97	6	450	St	10	-	10	5
Roches Point	1022·7	-4	W	3	C.	55	85	7	1500	CuNb	9	-	9	4
Pembroke (St. Ann's H.)	1024·3	-3	WSW	5	c	53	97	8	1500	StCu	10	-	10	2
Ross-on-Wye	1025·8	-3	SW	4	c-	50	75	6	2500	St	5	Ast	9	*
Leafield	1026·8	-3	S'W	3	C	46	85	7	-	-	0	Ast	10	*
Winchester (Worthy Dn.)														
S. Farnborough	1028·8	-2	SSW	3	c	47	85	7	5700	StCu	9	-	9	*
London (Kew Obsy.)	1028·2	-3	SSW	3	c	48	75	7	5700	StCu	9	-	9	*
Croydon	1029·5	-1	SSW	3	c	47	85	5	-	-	0	Ast	8	*
	1029·0	0	SW'S	3	c	48	86	5	4000	StCu	3	Ast	9	*
Rosbury Ness	1029·0	-2	SSW	2	bc	48	85	6	-	-	0	Ast	4	*
Clacton-on-Sea	1028·4	-2	SW	3	C	49	92	7	-	-	0	Ast	8	3
Felixstowe	1029·6	-3	SSW	3	or.	48	85	5	4000	Nb	10	-	10	1
Lympne	1029·5	-2	SW'S	2	b-	45	85	6	-	-	0	Ast	1	*
Scilly (St. Mary's)	1028·3	-3	W'S	5	C	51	75	8	4000	StCu	8	-	8	4
Falmouth (Pendennis)	1028·9	-2	SW'S	4	C	51	75	8	4000	StCu	7	Cist	9	0
Plymouth (Mt. Batten)	1028·9	-3	WSW	4	C	52	75	8	2500	Nb	9	-	9	1
Portland Bill	1028·1	-3	WSW	4	C+	49	75	8	1500	StCu	10	-	10	3
Southampton (Calshot)	1029·1	-3	WSW	2	C	51	75	7	2500	StCu	8	Ast	10	0
Dungeness	1030·2	-3	WSW	2	bc-	50	85	8	-	-	0	Ast	5	1
Guernsey (St. Peter Port)	1031·8	-2	-	0	C+	51	85	7	4000	StCu	8	-	8	1

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 21h. G.M.T. %	Visibility.*
		24 HOURS ENDED 9a.			YESTERDAY.							TO-DAY.	
Kew	18	bmc	cm.	cm.c	50	47	44	-	-	0·0	*	*	6
Croydon	244	cm.cr	cm.	cm.bcm	50	44	40	-	-	0·4	*	*	6
Greenwich (Royal Obsy.)	148	c.f⊕c	c.d	cbc	51	46	36	T	-	0·0	69	73	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	52	40	42	-	-	0·0	79	79	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	116	bfc	o	*	49	49	*	-	-	*	*	74	*
Kensington Palace	80	bcm	bcm	*	49	48	41	-	-	*	(At 18h.) 85	74	*
Hampstead Observatory	450	*	*	*	48	44	38	T	T	0·2	*	80	*

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

...5th, 7th, ...November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·58	11·37	16·15
	7·0	11·37	16·13
Greenwich	7·1	11·44	16·25
	7·3	11·44	16·23
Wick	7·39	11·56	16·13
	7·41	11·56	16·10
Valentia	7·44	12·25	17·5
	7·46	12·25	17·3

† 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.

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.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r) = "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	1·3	4' 9h	<0·3	5' 2-3h

Kew Observatory	Max.	Time.	Min.	Time.
	0·8	4' 9h	<0·1	5" 5h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 4th ... 17 h. 15 m. to 5th ... 6 h. 15 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 0	4·27	34
δ Ursae Minoris	13 0	3·38	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 = Sleeting 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).

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
4 = mod. swell } Moderate
5 = heavy swell } sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

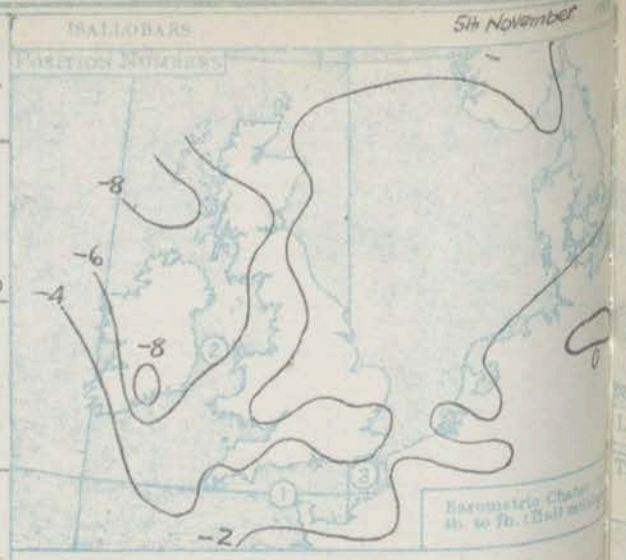
¶ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 4th.	18h.-18h. 4th.	18h 4th. to 1h 5th.	1h.-7h. 5th.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL. Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 4th. Hours.
Lerwick	coir.m.	oir.	or.r.c	cor.r.	48	47	.	2	<8.00	7	<21.00	0.0
Stornoway	r-d	p	r-d	r-d.	54	52	.	4	<8.00	4	<2100	0.0
Wick	c	orrc	c	p.r.bc	49	48	.	3	13.30	0.5	01.30	.
Tiree	Rr m.	mm.o	id. R	rro	54	53	51	13	<8.00	5	24.00	0.0
Nairn	cr.	r.c.bc	bc.q.c	q.c	54	53	.	1	11.00	-	-	0.0
Aberdeen	bec.ir.cr	orr.c.bm.	cr.m.	c.m.c.q.	48	47	45	3	9.00	0.1	<21.00	0.0
Kalin Head	cr.c	c	c.cid	cd.ir	56	53	.	0.5	<8.00	3	22.00	0.0
Renfrew	or.r.	r.cidd.q.	cr.r.q.	orrm.q.	51	51	50	3	<8.00	11	<2100	0.0
Edinburgh (Inchkeith)	cir.	oir.c	c	prc	53	51	50	Tr.	<8.00	Tr	0130	0.0
Leuchars	crr. r.r.	orr.c.q.	c.q.	c.q.c.ir.q.	51	51	49	2	<8.00	2	03.30	0.0
Eskdalemuir	corrm.	orrmoddm.	oddm.	oddm.	48	47	49	5	<8.00	16	<21.00	0.0
Tynemouth	oir.mm	oirm	oq.	oq.	52	51	48	3	9.00	-	-	.
Blacksod Point	rc	c	rr	p.q.c.q.	58	53	.	Tr.	.	16	.	.
Donaghadee	oirc	c	c	coll	52	51	.	3	<8.00	3	0230	.
Birr Castle	oroc	oir.	oir.	oir	54	54	51	1	<8.00	4	<21.00	0.0
Holyhead	r.r.q.	ddm.c	id. m.q.	rid.m.q.	53	50	51	4	9.00	1	<21.00	0.0
Liverpool (Bidston)	cor.	or.vc	cbc	c	51	50	48	1	11.00	-	-	0.0
Chester (Sealand)	crr.m.	cr.m.bc	bcc	c.m.	52	50	46	1	9.00	-	-	0.0
Harrogate	cofid.	ofcoid.	od.d.q.	cbc.q.	~~47~~ 48	46	43	Tr.	9.00	0.3	<21.00	0.0
Spurn Head	bcc	cop.r	oc	c	48	45	.	Tr.	16.30	-	-	0.0
Birmingham (Edgbaston)	co	cir.	cp.r	c	47	44	42	Tr.	11.00	Tr	<21.00	0.0
Cranwell	c.m.	crc	cm. bc	bcc	48	45	43	0.2	14.30	-	-	0.0
Gorleston	bcc	c.m.	od.bc.m.	bc	~~47~~ 48	44	42	-	-	Tr	<21.00	1.4
Valentia (Cahiroivean)	odrrodd	odd	od.ir	cir	55	54	53	2	<8.00	7	<2100	0.0
Roches Point	codd	odd dc	c	corr	56	54	.	4	9.00	10	01.30	.
Pembroke (St. Ann's H.)	cpq	c	bcc	cq	53	52	.	Tr.	<8.00	-	-	0.0
Ross-on-Wye	cmc.r	r.c	c	c	50	47	44	0.1	12.30	-	-	0.0
Leafield	c	cr.c	c	c	48	43	41	Tr.	13.30	-	-	0.0
Winchester (Worthy Dn.)	bcxcmcmc	mcmmc	c	c	51	45	41	-	-	-	-	0.0
S. Farnborough	xcfc	c	c	c	49	47	44	Tr.	-	-	-	0.0
London (Kew Obsy.)	bmc	cm.	cm.c	c cm	50	47	44	-	-	-	-	0.0
Croydon	cm.oz.	cm.	cm.bc	bccm.	50	44	40	-	-	-	-	0.4
Shoeburyness	bcmcrq	bcm	bcm.b	bbc	50	45	43	-	-	-	-	0.9
Clacton-on-Sea	bczcm	cmc	cpc	c	49	45	45	-	-	0.1	<21.00	1.7
Felixstowe	bcm.c	cz.r.	oz.r.c	cbc	49	47	45	Tr.	17.30	Tr	<21.00	1.4
Lympne	bcm.c	cm.cbm.	bcm.c	cbc	49	44	40	-	-	-	-	3.0
Scilly (St. Mary's)	bcc	c	c	cbcc	53	51	.	-	-	-	-	0.2
Falmouth (Pendennis)	bc	c	cq	cq	54	51	.	-	-	-	-	2.8
Plymouth (Mt. Batten)	cwbc	c	cbc	cq	56	52	50	Tr.	-	-	-	1.3
Portland Bill	bcc	c	oc	c	55	48	.	-	-	-	-	.
Southampton (Calshot)	bbcem.	cm.c	cpr.le	c	54	49	47	-	-	Tr	21.00	0.0
Dungeness	bcc	cbbc	bc	bcc	52	49	.	-	-	-	-	.
Guernsey	bcc	cbcc	cbcbc	bcc	56	49	41	-	-	-	-	6.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	4th 18h	Cambria	SW	6	Orr	49	54

GENERAL INFERENCE.

A deep depression centre near Iceland is likely to travel eastward together with small associated secondaries. Weather will be mild and unsettled generally with some rain in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 5th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh southerly or southwesterly winds, strong at times; cloudy, occasional rain; mild.	
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Strong southwesterly winds, reaching gale force at times, veering later; cloudy, some rain at first, brighter intervals with showers later; mild.	Bright inte... and showers w... temperature becoming some... lower.
10. N.E. England 11. S.E. Scotland	Strong southerly winds, reaching gale force at times locally, tending to veer; cloudy, some rain; mild.	
12. S.W. Scotland & Isle of Man 13A. W. Scotland 13B. N.W. Scotland 14. Mid-Scotland	Strong southwesterly to westerly winds, reaching gale force at times; showers, bright intervals; moderate temperature.	
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	As 12 - 14.	

South Cone... hoisted at 6h. G.M.T. yester... in districts 13B, 15, 16 and ... at 14h.10m. ... yesterday in districts 5, ... 8, 10, 11, 12, 1... and 20; and ... 55m. G.M.T. ... in district ...

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

† For code see page 4

‡ Trace = rain has fallen, but amount too ...

SYNOPTIC CHART FOR 7h. TUESDAY, 5TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles.

LOW

Barometer Falling

Barometer Falling Slowly

Barometer Falling Briskly

Barometer Falling Slowly

Barometer

Barometer

HIGH

LOW

LANCASTRIA

EXPLANATION

BAROMETER. Isobars are drawn for intervals of two millibars.

WIND. Arrows fly with the wind, number of feathers indicates force, but 1 knot. Mean Velocity in miles per hour entered in small circles.

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS

Clear 0/7. Sky less than ½ clouded.

Sky ½ to ¾ clouded. Sky more than ¾ clouded.

Overcast sky. Rain falling.

Snow. Hail. Mist.

Thunder. Fog. Thunderstorm.

SEA AND DISTURBANCE.

Smooth. Slight. Moderate. Rough. Very Rough.

In ICELAND barometric change from 6 to 7h. in mill millibars is entered beneath the wind for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Tuesday 5th November 1929. No. 309

Observations at 1h. G.M.T. 5th

STATIONS.	Height above M.S.L. in feet.	Baromr. 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
Lerwick	34	999·8	-2	S	3	c	53	92	7	1500	Stcu	5	Ast	10
Stornoway	30	998·5	-9	SSW	7	drr	*	*	5	*	*	*	*	10
Wick	81	1001·1	-3	SW	3	c	52	92	8	2600	Stcu	6	Ast	10
Tiree	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	29	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1004·1	-6	S	7	cd.	55	97	7	2500	Nb	6	Ast	10
Renfrew	98	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	1008·3	-4	SW	5	c	54	85	8	2500	St	4	Ast	10
Lanchars	90	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1012·7	-4	SW	4	o	51	92	6	1500	Nb	10	-	10
Blacksod Point	18	1001·9	-4	S	7	oRR	55	85	6	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	38	1016·5	-5	SSW	7	o/r	53	97	6	800	St	10	-	10
Liverpool (Bidston)	180	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1018·1	-2	WSW	4	c	48	97	7	4000	Stcu	10	-	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	356	1020·6	-4	SW	4	bc-	47	85	7	4000	Stcu	2	Ast	4
Gorleston	14	1023·6	-3	SSW	4	bc+	47	92	6	~~1000 Stcu~~ To Ast				7
Valentia (Cahirciveen)	30	1008·8	-5	S	6	orr	55	97	6	*	St	10	-	10
Roches Point	92	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	180	1019·5	-3	SW	5	o+	54	97	7	1500	St	10	-	10
Ross-on-Wye	338	*	*	*	*	*	*	*	*	*	*	*	*	*
Lealholm	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	16	*	*	*	*	*	48	*	*	*	*	*	*	*
Croydon	344	1025·2	-5	SW'S	3	bc-	47	85	6	2500	Stcu	3	Ci	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	56	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	250	1024·2	-4	S'W	3	c	48	85	7	4000	Stcu	8	-	8
Scilly (St. Mary's)	162	1023·2	-5	SW'W	6	c	52	85	8	4000	Stcu	8	-	8
Falmouth (Pendennis)	200	1024·5	-3	SW'W	6	c	52	75	8	4000	Stcu	10	-	10
Plymouth (Mt. Batten)	62	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	37	1024·7	-6	SW	6	c	54	65	8	1500	Stcu	10	-	10
Southampton (Calshot)	10	1025·7	-4	SW'S	4	c	53	65	8	2500	Stcu	7	Ast	10
Dungeness	30	1025·1	-4	SW	4	bc+	53	75	8	2500	Stcu	7	-	7
Guernsey (St. Peter Port)	178	1028·0	-5	SSW	2	bc	50	85	8	2500	Stcu	4	-	4

Observations at 7h. G.M.T. 5th

STATIONS.	Baromr. 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	Sunshine 0-9
Lerwick	994·5	-5	S	4	orr.	51	92	7	1500	Nb	10	-	10	0
Stornoway	991·3	-5	S	5	orr.	53	97	6	1500	Nb	10	-	10	4
Wick	995·6	-4	SW	3	bc	53	92	8	1500	CuNb	4	-	10	6
Tiree	994·2	-9	SSW	6	o/r	53	97	6	800	St	10	-	10	0
Nairn	995·8	*	WSW	3	c+	56	85	8	1500	CuNb	8	-	8	0
Aberdeen	999·8	-4	SSW	4	c	54	85	7	1500	Nb	5	Ast	9	0
Malin Head	996·9	-6	SSW	6	cr.	55	97	7	2500	Nb	6	Ast	10	4
Renfrew	1001·2	-7	SSW	6	oRR	53	92	6	450	Nb	10	-	10	0
Edinburgh (Inchkeith)	1007·1	-6	SW	5	c	54	85	8	1500	St	4	Ast	9	3
Lanchars	1002·2	-6	SW	5	crr	53	92	6	800	Nb	9	Ast	10	0
Eskdalemuir	1005·3	-5	SSW	7	odd	50	92	5	450	Nb	10	-	10	0
Tynemouth	1008·4	-3	SW	4	bc-	51	85	7	2500	Cu	7	-	7	2
Blacksod Point	998·1	-4	WNW	5	c	54	85	7	*	CuNb	8	-	8	7
Donaghadee	1002·5	-3	SW	3	or	54	85	7	1500	St	10	-	10	2
Birr Castle	1003·3	-7	SSW	4	or.	55	92	7	2500	Nb	10	-	10	5
Holyhead	1007·2	-6	S'W	7	od.	53	92	6	800	St	9	Ast	10	0
Liverpool (Bidston)	1011·6	-5	SSW	5	c	52	78	9	2500	Nb	10	-	10	0
Chester (Sealand)	1012·7	-5	S'E	4	c	52	78	6	1500	St	10	-	10	0
Harrogate	1011·9	-4	SW	5	c	48	85	7	2500	Nb	7	CiCu	8	3
Spurn Head	1014·8	-2	WSW	5	c	46	92	7	4000	StCu	7	CiSt	9	0
Birmingham (Edgbaston)	1016·4	-3	SSW	4	c+	47	85	8	2500	StCu	2	Ast	9	0
Cranwell	1016·8	-2	SSW	4	c+	46	85	8	3700	StCu	1	CiSt	8	0
Gorleston	1020·0	-3	SW'S	3	bc	45	85	6	-	-	0	ACu	6	0
Valentia (Cahirciveen)	1008·8	-2	SW	4	or	55	92	7	1500	Nb	10	-	10	7
Roches Point	1007·5	-9	SW	6	orr	54	97	6	800	Nb	10	-	10	7
Pembroke (St. Ann's H.)	1012·4	-4	SSW	7	c	54	97	7	1500	StCu	10	-	10	7
Ross-on-Wye	1016·8	-2	SSW	4	c	50	78	8	2500	StCu	10	-	10	7
Lealholm	1018·2	-4	SSW	4	cjp	47	85	9	1500	StCu	10	-	10	7
Winchester (Worthy Dn.)	1020·7	-3	SSW	4	c	50	78	8	1500	St	10	-	10	7
S. Farnborough	1020·5	-4	SW	3	c	50	78	8	2500	StCu	9	-	9	7
London (Kew Obsy.)	1020·4	-4	SW'S	4	c	49	78	8	2500	StCu	8	Ci	9	7
Croydon	1021·2	-5	SW	4	c+	49	78	6	2500	StCu	7	Ci	9	7
Shoeburyness	1021·1	-5	SSW	4	bc+	49	85	8	2500	StCu	4	ACu	7	3
Clacton-on-Sea	1020·8	-4	S	4	c	50	92	7	4000	StCu	8	-	8	3
Felixstowe	1021·2	-3	S'W	5	bc	49	92	8	2500	StCu	3	Ci	7	3
Lympne	1022·4	-4	S	4	bc	47	85	7	2500	StCu	5	ACu	7	1
Scilly (St. Mary's)	1017·0	-6	WSW	7	c	53	85	7	4000	StCu	9	-	9	4
Falmouth (Pendennis)	1018·3	-3	SW	7	c	53	78	8	4000	StCu	10	-	10	5
Plymouth (Mt. Batten)	1018·9	-4	SW	7	c	53	85	8	2500	Nb	10	-	10	5
Portland Bill	1019·2	-3	SW'S	7	c	54	65	8	1500	StCu	10	-	10	0
Southampton (Calshot)	1021·4	-4	SW'S	5	c	53	65	8	1500	StCu	9	-	9	1
Dungeness	1022·4	-4	SW	5	c+	52	78	8	1500	CuNb	8	-	8	1
Guernsey (St. Peter Port)	1023·8	-2	SW	3	bc	50	85	7	2500	StCu	6	-	6	1

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 3rd to 9h. 4th. °F.	Temperature. Max. 9h.-17h. 4th. °F.	Rainfall.† Night 17h.-9h. mm.	Rainfall.† Day 9h.-17h. mm.	Sunshine. Sunrise to Sunset. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	o	39	50	-	-	0.0
Douglas (I. o. M.)	orr	oro	40	51	1	3	0.0
Llandudno	cdcr	c	47	53	0.4	0.2	0.1
Colwyn Bay	ocpc	cpo	43	52	0.3	0.5	0.0
Rhyl	bc	r.c	39	52	-	1	0.0
Wallasey	Fair	iroc	44	52	-	1	0.0
Southport	or	ro	*44	50	0.6	2	0.0
Blackpool	od	od	45	50	0.2	2	0.0
Morecambe	cor	or	43	50	0.2	5	0.0
Ilkley	o	o	33	49	-	-	0.0
Cleethorpes	o	od	37	48	-	0.1	0.0
Mablethorpe	cwm.	omir.	35	48	-	Trace	0.5
Skegness	xco	co	34	48	-	-	0.0
Aberystwyth	cd	cr	41	53	-	1	0.0
Bath	mc	r.c	31	51	-	Trace	0.0
Cheltenham	om	om	33	51	-	-	0.0
Leamington Spa	o	oco	32	50	-	-	0.0
Lowestoft	bbbc	o	34	48	-	-	2.1
Harwich & Dovercourt	bc	oc	36	49	-	-	0.0
Maldon	fbco	o	32	49	-	-	0.7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	o	oc	44	53	-	-	0.0
Bude	oe	oe	35	53	-	-	0.0
St. Ives	c	o	44	53	-	-	1.2
Penzance	c	c	42	55	-	-	1.0
Paignton	wbcm	bccmm.	35	55	-	-	1.6
Torquay	bcmu	oc	39	55	-	-	1.4
Jersey	fbc	bc	40	56	-	-	1.7
Weymouth	cbc	b	35	55	-	-	1.7
Bournemouth	oc	oc	34	53	-	-	0.3
Ventnor	cz	ou	40	52	-	-	0.7
Portsmouth (S'thsea)	c	c	35	53	-	-	0.0
Bognor Regis	bcc	c	35	52	-	-	1.6
Littlehampton	bc	bcc	31	51	-	-	2.2
Worthing	bbc	c	35	52	-	-	2.7
Brighton	bcb	bc	37	53	-	-	2.1
Eastbourne	bbc	bcc	37	52	-	-	3.6
Hastings‡	mbc	bccom	39	52	0.2	-	3.2
Folkestone	wcz.	c	38	51	-	-	2.6
Dover	fbcc	coc	38	52	-	-	2.7
Deal	bbc	o	37	51	-	-	2.0
Tunbridge Wells	bcc	c	32	50	-	-	2.5
Ramsgate	bc	c	39	51	-	-	2.7
Margate	bcm.	bcm.	39	50	-	-	0.7
Southend	cfc	co	37	50	-	-	2.2

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24821 WEDNESDAY, 6th NOVEMBER 1929.

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

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	990·3	-5	S	3	dr.	52	92	7	1500	Nb	10	-	10	•
Stornoway	987·9	0	WSW	5	bc/pr	53	75	8	4000	CuNb	7	-	7	•
Wick	991·0	-4	SSW	5	c/pr.	54	85	8	1500	Nb	6	CiSt	8	•
Tiree	993·1	0	WSW	7	bc-	52	75	7	1500	StCu	5	-	5	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	995·0	-5	S	4	cr.	54	85	7	1500	Nb	6	ASt	10	1
Malin Head	996·7	0	SW	6	b	53	85	7	4000	Cu	1	CiCu	2	•
Renfrew	998·3	-2	SW	3	c/r	53	85	6	1500	Nb	6	Ci	8	2
Edinburgh (Inchkeith)	996·9	-5	SSW	5	cr.	55	85	7	800	St	10	-	10	•
Leuchars	996·4	-5	SW's	5	c/r	56	86	7	1500	Nb	8	ASt	10	2
Eskdalemuir	999·2	-6	SSW	7	orr	50	97	5	450	Nb	10	-	10	2
Tynemouth	1003·5	-2	SSW	3	o/r	52	85	6	1500	Nb	10	-	10	•
Blacksod Point	998·3	0	W	4	bc	53	75	8	•	CuNb	6	-	6	•
Donaghadee	999·1	-1	WSW	4	c	54	85	7	4000	StCu	5	CiSt	8	•
Birr Castle	1002·0	-1	SW	1	c	53	75	7	4000	StCu	10	-	10	•
Holyhead	1004·1	-5	SSW	6	or	64	97	5	800	Nb	10	-	10	2
Liverpool (Bidston)	1005·6	-6	SSW	5	c	53	75	9	1600	Nb	10	-	10	•
Manchester (Sealand)	1006·4	-7	S'W	6	c	64	75	7	1500	St	10	-	10	1
Harrogate	1006·5	-5	SSW	6	c	51	75	7	2500	Nb	5	ASt	9	•
Spurn Head	1009·4	-3	SW'W	6	c	54	75	7	4000	Cu	5	CiSt	8	•
Birmingham (Edgbaston)	1010·3	-6	SSW	5	c	51	75	8	2600	StCu	5	ASt	9	2
Cranwell	1010·8	-6	SSW	5	c	53	75	8	1500	StCu	8	CiSt	9	1
Gorleston	1014·2	-5	SSW	6	c+	53	85	6	2500	Nb	8	-	8	•
Valentia (Cahirciveen)	1002·7	-3	SW	3	c-	54	85	8	2500	St	4	CiCu	8	2
Roches Point	1004·8	-3	SW	2	c	53	97	7	1500	CuNb	9	-	9	•
Pembroke (St. Ann's H.)	1005·8	-8	SSW	7	orr	53	97	6	450	St	10	-	10	•
Ross-on-Wye	1010·4	-7	SW's	5	c+	53	65	8	2500	St	3	ASt	10	1
Leafield	1012·1	-7	SSW	6	c-	52	65	8	2500	StCu	8	CiSt	9	0
Winchester (Worthy Dn.)	1014·9	-6	SSW	5	c	52	75	8	1600	St	10	-	10	1
S. Farnborough	1015·0	-7	S'E	5	c	53	65	7	2500	StCu	10	-	10	1
London (Kew Obsy.)	1015·2	-8	SW's	4	c	54	65	8	2500	StCu	8	Ci	9	1
Croydon	1015·5	-7	SW's	5	c-	54	75	7	2500	StCu	5	Ci	8	1
Shoeburyness	1016·6	-6	SSW	5	c+	53	85	8	2500	StCu	8	ASt	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1016·9	-6	S	5	c	53	85	8	2500	StCu	4	Ci	9	0
Lympne	1017·9	-6	S	5	c	51	75	8	1500	StCu	2	Ci	8	1
Scilly (St. Mary's)	1009·1	-8	SW	7	ORR	53	97	6	2500	Nb	10	-	10	•
Falmouth (Pendennis)	1011·3	-6	SW	8	cr.+	54	75	7	2500	Nb	8	ASt	10	•
Portland Bill	1012·4	-8	SW	7	c	54	97	8	800	Nb	9	ASt	10	1
Southampton (Calshot)	1014·6	-9	SW	7	c	54	86	8	1500	StCu	10	-	10	•
Dungeness	1016·3	-8	SSW	6	c	53	75	8	1500	StCu	8	CiCu	9	0
Guernsey (St. Peter Port)	1017·9	-5	SW	5	c	53	75	8	2500	Cu	7	CiCu	8	•
	1017·6	-7	S	4	bc-	54	75	7	4000	StCu	2	ACu	4	•

Observations at 13h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	988·7	-3	S	2	c	53	86	7	1500	StCu	5	ASt	8	•
Stornoway	989·2	+2	WSW	4	bc/pr	48	85	8	4000	CuNb	5	-	5	4
Wick	990·5	+1	WSW	6	bc	50	75	8	2500	StCu	3	CiSt	5	4
Tiree	994·6	+1	WSW	5	bc-	49	85	7	2500	CuNb	3	-	3	4
Nairn	992·6	•	WSW	4	bc	49	75	8	1500	St	5	-	5	•
Aberdeen	996·7	+3	SW's	3	b-	51	85	7	-	-	0	ACu	2	1
Malin Head	997·5	+2	SW	4	bc/p	48	92	7	2500	CuNb	3	ACu	6	4
Renfrew	999·2	0	SW	3	c	50	85	7	-	-	0	ASt	10	•
Edinburgh (Inchkeith)	996·7	+1	SW	3	o	60	85	7	800	St	10	-	10	1
Leuchars	997·9	+3	SW	2	c	49	85	6	4000	StCu	10	-	10	•
Eskdalemuir	999·6	0	SSW	4	c	49	92	6	800	StCu	10	-	10	•
Tynemouth	1001·6	0	SSW	3	o	52	85	7	1500	St	10	-	10	2
Blacksod Point	997·8	-1	W	4	bc	50	76	8	•	Cu	5	-	5	5
Donaghadee	998·6	0	SW	2	bc	49	85	7	4000	StCu	5	ASt	8	2
Birr Castle	1000·7	-1	S	1	cr	48	97	7	4000	CuNb	9	-	9	•
Holyhead	1002·4	-2	S	4	cr.	52	97	6	1500	Nb	6	ASt	10	3
Liverpool (Bidston)	1002·4	-2	SSW	4	odd	50	92	8	2500	Nb	10	-	10	•
Manchester (Sealand)	1003·5	-2	S	3	orr.	50	92	6	800	St	10	-	10	•
Harrogate	1003·9	-1	S'W	5	orr	48	92	5	2500	Nb	10	-	10	•
Spurn Head	1005·9	0	SW's	5	c	51	85	7	4000	StCu	4	ASt	10	4
Birmingham (Edgbaston)	1006·7	-3	S	4	orr	48	97	6	800	Nb	10	-	10	•
Cranwell	1007·4	-2	SSW	4	c	51	76	7	1500	St	10	-	10	•
Gorleston	1011·4	-3	S'W	5	c-	61	75	6	4000	StCu	8	-	8	4
Valentia (Cahirciveen)	1001·4	+1	WSW	3	bc	49	75	8	2500	Cu	4	ACu	7	4
Roches Point	1002·1	-2	W	2	bc	52	92	7	2500	StCu	4	-	4	6
Pembroke (St. Ann's H.)	1002·7	-2	SW	4	orr	53	92	6	450	St	10	-	10	4
Ross-on-Wye	1006·5	-4	S	3	orr	49	92	6	2500	Nb	10	-	10	•
Leafield	1008·3	-4	S	5	o	49	85	8	1500	St	10	-	10	•
Winchester (Worthy Dn.)	1010·5	-4	S	5	c	50	85	8	1500	St	10	-	10	•
S. Farnborough	1011·1	-5	S'W	5	c	60	75	7	1500	StCu	10	-	10	•
London (Kew Obsy.)	1011·5	-4	SSW	4	c-	50	75	7	-	-	0	ACu	8	•
Croydon	1012·3	-3	SW's	2	c	50	75	6	1500	St	9	-	9	•
Shoeburyness	1012·8	-3	SW's	5	bc	49	85	8	2500	StCu	3	ACu	4	•
Clacton-on-Sea	1012·9	-3	S	5	bc	50	85	7	4000	Cu	6	-	6	4
Felixstowe	1013·4	-2	S	4	bc-	50	85	7	1500	StCu	3	-	3	6
Lympne	1013·9	-4	S	4	bc-	47	75	7	2500	StCu	6	-	6	•
Scilly (St. Mary's)	1006·5	-2	S'E	1	cr	52	97	6	2500	Nb	9	-	9	2
Falmouth (Pendennis)	1005·9	-6	SW	8	ORR	51	97	6	2500	Nb	10	-	10	6
Portland Bill	1006·9	-3	SSW	8	orr	51	97	6	450	Nb	10	-	10	6
Southampton (Calshot)	1009·1	-8	SSW	7	c	54	65	8	1500	StCu	10	-	10	7
Dungeness	1012·1	-4	S	6	c	52	75	8	2500	StCu	10	-	10	3
Guernsey (St. Peter Port)	1013·4	-5	SSW	5	bc	50	75	7	2500	StCu	7	-	7	5
	1012·0	-7	S	5	bc	52	75	7	4000	StCu	6	-	6	5

LONDON OBSERVATIONS.

Day 7h-13h., Kew & Croydon.
9h-13h., Kensington.
9h-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 13h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	c	c	com.dr	55	47	46	-	Tr	0·1	•	•	6
Croydon	244	Cm,mz	Cz,cm	cm.	54	46	45	-	-	1·3	•	•	4
Greenwich (Royal Obsy.)	149	c	c	cold	55	46	43	-	Tr	0·4	71	93	6
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·2	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	55	48	45	-	-	0·3	75	92	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0·6	•	•	•
Camden Square	116	oc	c	•	53	47	•	-	Tr	•	•	92	•
Kensington Palace	80	bc.o	bc	•	55	46	46	-	Tr	•	(At 18h.) 77	94	•
Hampstead Observatory	460	•	•	•	52	43	41	Tr	Tr	0·0	•	96	•

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

6th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·0	11·37	16·11
	7·2	11·37	16·10
Greenwich	7·3	11·44	16·23
Wick	7·5	11·49	16·13
	7·41	11·56	16·10
Valentia	7·44	11·56	16·8
	7·41	12·25	17·3
	7·47	12·25	17·1

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0·6	5th 9h	<0·3	6th 6-7h

Kew Observatory

Max.	Time.	Min.	Time.
0·2	5th 20h	<0·1	6th 2h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 5h 17h 15m to 6h 6h 15m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
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 is 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).

BEAUFORT NOTATION OF WEATHER.

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

d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog. „ less than 200 m.
m mist, „ 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
ts sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. 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<c/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	Calm or slight sea.
1	1- 3	
2	4- 7	
3	8-12	Moderate sea.
4	13-18	
5	19-24	
6	25-31	
7	32-38	
8	39-46	
9	47-54	
10	55-63	
11	64-75	
12	Above 75	

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

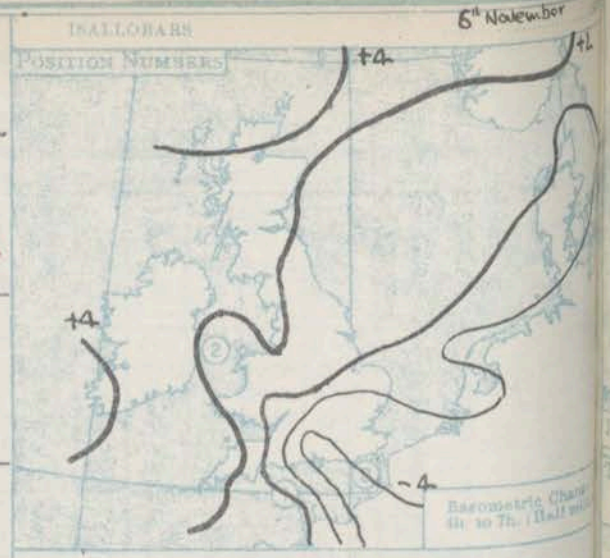
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 5h	WEATHER. 18h.-18h. 5h	WEATHER. 18h. 5h to 1h. 6h	WEATHER. 1h.-7h. 6h	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 5th Hours.
Lerwick	orr.cor.	oir.c	cbc	bc	53	46	*	3	<8.00	-	-	0.2
Stornoway	p	p	p	p	55	44	*	3	<8.00	3	<21.00	2.4
Wick	cp.r	p.r bc	b-bc	b-bc	55	42	*	Tr.	11.00	-	-	*
Tiree	prc	cpr.	bcpR	pr	54	46	38	1	<8.00	2	<21.00	3.8
Nairn	cp.rq	bcq	bcx	bc	56	36	*	1	9.00	-	-	~~1.4~~ 0.6
Aberdeen	cq.cr.	cir.bcb	bbm.	bm.z.	55	39	32	Tr.	12.30	-	-	1.1
Malin Head	cir.b	bbcpr	bc p.r	bcp.r	55	42	*	2	<8.00	0.6	<21.00	3.5
Renfrew	oRRrrq	cm.c	cp.cr	bcbmx	54	33	27	10	<8.00	1	<21.00	0.1
Edinburgh(Inchkeith)	orrir.c	cir.o.	ocbcb	bbc	55	43	39	1	<8.00	-	-	0.0
Leuchars	crrq.cir.	cRq.bcc	cbcm.	bcm.	56	36	30	1	<8.00	-	-	0.1
Eskdalemuir	orrm.	orrmcm	cprm.	cm.cm	50	37	32	33	<8.00	1	<21.00	0.0
Tynemouth	bcoir.	-o	or.r.	or.r.	53	46	41	0.1	11.00	2	<21.00	*
Blacksod Point	pq.bc	cq.bc	pbc	pc	~~53~~	44	*	0.2	*	6	*	*
Donaghadee	oircq	c	b	bw	54	37	*	1	<8.00	-	-	*
Birr Castle	oRc	cir	crbcb	bx	55	37	26	2	<8.00	0.3	<21.00	0.4
Holyhead	rrirmq	kq.Rrr	ir.bc bc	bc	54	50	45	21	<8.00	2	<21.00	0.0
Liverpool (Bidston)	vcp.v	codd	cr.rc	c	53	46	40	1	9.00	1	<21.00	0.0
Chester (Sealand)	c	crr.m.	r.r.cm.	cm.	55	43	40	2	13.30	2	<21.00	0.0
Harrogate	cQ	coqrr	ocrr	rocff	61	43	36	2	14.30	3	<21.00	0.0
Spurn Head	cbcc	c	cpr	cpr	54	46	*	-	-	0.3	24.00	1.3
Birmingham(Edgbaston)	c	corr	orrr.	or.r.r.	52	45	44	3	16.30	9	<21.00	0.0
Cranwell	c	c	cr.m.	cm.	53	45	44	-	-	0.2	22.00	0.9
Gorleston	bccq	cq	cbcbq	bccm.	53	44	41	-	-	-	-	0.0
Valentia(Cahirciveen)	cpcp.	cp.bc	cr.bcpc	bccpr	56	45	40	0.5	<8.00	3	<21.00	1.8
Roches Point	orrcirc	cbc	bcbw	bw	55	43	*	4	<8.00	Tr	-	*
Pembroke(St.Ann's H.)	crrq	orrm.	cir.	bcir.	55	48	*	15	9.00	4	<21.00	0.0
Ross-on-Wye	cbcc	codr	r.oqr	rrm	55	47	47	4	15.30	15	<21.00	1.1
Leafield	cid.c	co	ord	oirR	53	43	43	Tr.	9.00	4	<21.00	0.2
Winchester (Worthy Dn.)	c	cr.c	corr	orrm.	53	44	44	Tr.	16.30	4	22.00	0.3
S. Farnborough	c	cvc	c	orrd.d.	55	46	44	-	-	1	03.30	0.7
London (Kew Obsy.)	c	c	com.	omcd.m.	55	47	46	-	-	Tr	-	0.1
Croydon	cm.mz	cz.	cm.	cm.	54	46	45	-	-	-	-	1.3
Sheerness	bcc	bc	bcc	c	55	45	44	-	-	-	-	1.2
Clacton-on-Sea	cbc	bccbc	bc	bcc	53	46	45	-	-	-	-	1.7
Felixstowe	c	cbc	bcc	co	53	46	45	-	-	-	-	2.3
Lympne	bcc	cbc	bcc	com.	52	44	42	-	-	-	-	4.2
Scilly (St. Mary's)	corr	orrir	crbcp	bcp	54	48	*	11	9.00	2	<21.00	0.0
Falmouth (Pendennis)	crq	coRqm	orqc	cp.	55	48	*	9	11.00	9	<21.00	0.1
Plymouth(Mt.Batten)	cq	coqrm	mqm.rc	cm.rr	55	49	47	7	14.30	11	<21.00	0.0
Portland Bill	c	c	oir m.	oRR	56	51	*	-	-	11	<21.00	*
Southampton(Calshot)	c	c	cr.	cd.d.c.r.	54	46	46	-	-	6	22.00	0.2
Dungeness	c	c	co	c	54	46	*	-	-	-	-	*
Guernsey	cq bc	bccoc	ororr	ororr	54	49	46	-	-	14	<21.00	3.9

† For code see page 1



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	5th 10h	Cambria	S	9	000	54	54
1	5th 12h	St Helier	SW	6	c+	54	56
3	6th 2h	Dieppe	SW	6	b	50	49

GENERAL INFERENCE.

A secondary depression over Southern England will move eastward and be followed by a ridge of relatively high pfessure. Apart from some rain early in Southeastern England weather will be showery with brighter intervals and a fall in temperature generally but conditions on the western seaboard are likely soon to become unsettled again as new disturbances come in from the Atlantic.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 6th November, 1929.

Districts.	Forecasts	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	Moderate westerly or northwesterly winds, cloudy with brighter intervals but occasional showers; rather low day temperature, ground frost at night.	Unsettled.
12. S.W. Scotland & Isle of Man 13. A. W.Scotland B. N.W.Scotland 14. Mid Scotland 15. N.E Scotland	Moderate or fresh westerly or northwesterly winds backing later; showers and brighter intervals today, cloudy with some rain tomorrow; rather low temperature, ground frost inland tonight.	
16. Orkneys and Shetlands	Moderate southwesterly to westerly winds, cloudy with brighter intervals but occasional showers; rather low day temperature, ground frost inland at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh westerly or northwesterly winds backing later; occasional showers with bright intervals at first, cloudy later with some rain; rather low temperature today, with ground frost tonight becoming milder tomorrow.	

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

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

5th November

SYNOPTIC CHART FOR 7h. WEDNESDAY, 6TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

974 972 970 968

42 32 Hail +5

0 36 Low Fine +3

0 37 Fine -1

Barometer

976 978 980 982 984 986 988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020

15 45 Fine +4

Barometric changes rising

5 48 Fine

15 44 Heavy Showers

10 43 Fine

5 41 Fine

Barometer

10 43 Fine

0 35 Fog

2 46 Fog

15 45 Heavy Showers

rising

2 37 Fine

18 50 Cloudy

13 47 Cloudy

rising

21 49 Showers

10 51 Fine

2 45 Rain

1002 1000 L

27 51 Rain

47 5 Drizzle

Barometer slowly

21 50 Fine

10 51 Rain

50 5

HIGH

10 35 Fine

5 52 Cloudy

45 2 Rain

39 5 Cloudy

21 45 Rain

13 45 Drizzle

38 48 Cloudy

2 39 O'cast.

15 46 Rain

15 34 Fog

10 36 Fine

34 2 Fine

falling slowly

36 5 Cloudy

0 36 Fog

2 Fine

0 36 Cloudy

0 32 Fog

HIGH

15 Fine

45 10 Fine

slight

10 Fine

1012 1014 1016

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 that ¾ clouded. ⊗ overcast sky. ≡ rain falling. ▲ hail. ∞ fog. ≈ mist. ≋ snow. ϟ thunder. ⚹ thunderstorm.

SEA DISTURBANCE.—~ Rough. ≈ Very Rough.

In ICELAND barometric change from 3 h. to 7 h. in hall millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. WEDNESDAY. 6th NOVEMBER.....1929. No. 310

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 6th												Observations at 7h. G.M.T. 6th												Sun.
		Baromr. at M.S.L.	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	Baromr. at M.S.L.	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	0-9
		mb.												mb.												
Lerwick	34	991·5	+4	SW	4	bc	49	75	8	1500	StCu	3	-	3	994·2	+4	SSW	2	bc	48	75	8	1500	StCu	4	ASt	6	1
Stornoway	20	994·0	+2	SW	5	c/PR	•	•	6	•	•	•	•	10	995·5	+4	SW	2	c/PR	44	97	7	4000	CuNb	9	-	9	3
Wick	81	994·8	+2	SW	3	bc	47	85	8	2600	StCu	4	CiSt	6	997·1	+4	SW	3	bc	43	92	8	4000	StCu	3	Ci	4	1
Tiree	23	•	•	•	•	•	•	•	•	•	•	•	•	•	997·9	+2	W'S	3	bc	47	85	8	2500	CuNb	5	CiSt	7	3
Nairn	83	•	•	•	•	•	•	•	•	•	•	•	•	•	997·9	•	-	0	bc-	38	85	8	4000	Cu	4	-	4	1
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	999·8	+2	SSW	2	b	41	92	5	2500	Cu	1	CiCu	1	0
Malin Head	81	998·8	0	SW	3	b/p	46	92	8	4000	CuNb	1	-	1	999·3	+2	S	3	bc/p	43	97	8	4000	CuNb	1	CiCu	5	1
Renfrew	35	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·3	+2	-	0	fg	35	97	3	5700	StCu	2	-	2	•
Edinburgh (Inchkeith)	199	998·6	+1	WSW	2	b	48	92	8	1500	St	2	-	2	1000·5	+3	WSW	2	bc	44	92	8	1500	St	2	ASt	7	0
Leuchars	29	•	•	•	•	•	•	•	•	•	•	•	•	•	1000·4	+3	WSW	2	bc	38	97	6	4000	StCu	3	-	3	•
Eskdalemuir	724	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·7	+2	NW	2	mmc	37	97	4	4150	St	3	CiSt	9	•
Tynemouth	67	1001·1	0	WSW	2	or.l.	49	92	6	1500	Nb	10	-	10	1001·7	+1	SW	1	fo	46	97	3	1500	Nb	10	-	10	2
Blacksod Point	18	999·6	+2	W	3	bc	47	75	7	•	CuNb	6	-	6	1002·9	+3	W	4	o/PR	45	97	7	•	Nb	10	-	10	6
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·1	+2	W	1	b+	38	92	8	5700	StCu	2	-	2	1
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·8	+2	S	1	b+	37	97	7	4000	StCu	2	-	2	•
Holyhead	26	1002·1	0	WNW	4	bc	51	85	6	1500	St	4	-	4	1003·0	+1	NW'N	4	c+	50	85	8	2500	St	1	CiSt	9	•
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·0	+2	WSW	2	c	47	92	7	1500	St	10	-	10	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·2	+1	S'E	2	c	44	92	5	1500	St	4	ASt	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·6	+1	-	0	fg	44	97	2	4150	StCu	9	-	9	3
Spurn Head	29	1003·0	-1	SW'S	5	c/pr.	47	97	7	4000	Nb	6	ASt	10	1002·9	0	SW'S	4	c	47	97	6	4000	StCu	6	ASt	10	•
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·3	0	SSE	1	orr	45	97	4	800	Nb	10	-	10	•
Cranwell	336	1003·6	-3	S'E	4	c/r	47	92	6	800	Nb	10	-	10	1003·6	+1	SSE	2	c	45	97	6	800	St	10	-	10	•
Gorleston	14	1007·8	-3	SSW	5	bc	47	92	7	-	-	0	ASt	5	1005·1	-1	S	3	c+	46	85	6	1500	Nb	10	-	10	1
Valentia (Cahirciveen)	30	1002·2	+2	W	3	bc/pr.	49	97	8	•	St	3	-	3	1006·6	+4	NW	5	c/pr.	49	75	8	2500	CuNb	9	-	9	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1005·6	+3	W	2	b	43	92	8	2500	StCu	1	-	1	1
Pembroke (St. Ann's H.)	150	1001·7	-1	WNW	1	cd.	52	85	8	2500	StCu	8	-	8	1002·5	+2	NW	3	bc-	51	85	8	1500	CuNb	3	ACu	6	2
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·4	-1	E'N	1	orr	47	97	5	450	Nb	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·0	-2	SE'S	4	orR	46	97	4	220	Nb	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·9	-4	SE	3	or.r.	47	97	6	800	Nb	10	-	10	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·0	-3	SE'S	2	od.d.	47	97	6	800	Nb	10	-	10	•
London (Kew Obsy.)	18	•	•	•	•	•	48	•	•	•	•	•	•	•	1003·6	-2	SE'S	2	od.	47	92	6	1500	Nb	10	-	10	•
Croydon	244	1007·8	-3	SSW	4	bc-	47	85	6	2500	Cu	6	-	6	1004·2	-3	S'E	4	c	46	92	6	800	St	8	ASt	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1004·8	-4	SSE	4	c	47	92	7	1500	StCu	4	ASt	10	4
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1005·0	-3	SSE	5	c	47	92	7	2500	Cu	10	-	10	3
Felixstowe	13	•	•	•	•	•	•	•	•	•	•	•	•	•	1005·5	-2	SSE	5	o	46	92	6	1500	St	10	-	10	•
Lympne	350	1008·4	-4	S	4	c	45	85	7	1500	StCu	10	-	10	1005·0	-2	SSE	4	o	45	85	6	1500	St	10	-	10	
Scilly (St. Mary's)	163	1003·1	-1	NW'N	3	bc	52	92	8	4000	StCu	7	-	7	1005·2	+3	NNW	5	bc	50	85	8	4000	Cu	5	-	5	A
Falmouth (Pendennis)	100	1003·6	-1	NW'N	1	c	48	92	7	4000	StCu	10	-	10	1004·1	+2	NW	3	c/pr.	50	85	7	4000	StCu	9	-	9	1
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·0	+3	NW	1	cr	49	97	6	800	Nb	5	ASt	10	3
Portland Bill	52	1002·3	-7	S	7	orr	52	92	6	800	St	10	-	10	1000·0	-3	WNW	6	oRR	51	92	7	800	Nb	10	-	10	6
Southampton (Calshot)	10	1006·8	-4	SSE	5	c	48	85	7	1500	St	10	-	10	1002·8	-4	SE'S	3	or.r.	50	92	6	800	Nb	10	-	10	0
Dungeness	30	1007·9	-5	SSW	5	c+	47	85	7	2500	StCu	10	-	10	1004·6	-3	SSW	5	c	48	85	8	1500	StCu	10	-	10	5
Guernsey (St. Peter Port)	173	1005·0	-6	S	3	orr	54	97	6	1500	Nb	10	-	10	1003·0	+1	SW	3	orr	51	92	5	1500	Nb	10	-	10	4

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

STATIONS.	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. to 9h. °F.	TEMPERATURE. Max. 9h.-17h. °F.	RAINFALL† Night 17h.-9h. mm.	RAINFALL† Day 9h.-17h. mm.	SUN-SHINE. Sunrise to Sunset. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cr.	c	45	56	1	Trace	0·1
Douglas (I. o. M.)	o	orq	46	54	4	6	0·0
Llandudno	crr	cr	49	58	-	1	0·9
Colwyn Bay	oro	rorro	44	54	0·3	3	0·0
Rhyl	c	rc	48	56	-	1	0·2
Wallasey	c	cor	46	56	-	1	0·0
Southport	o	orr	*50	54	0·1	6	0·0
Blackpool	o	or	48	53	-	8	0·0
Morecambe	cor	rr	46	53	0·2	24	0·0
Ilkley	c	cgor	45	51	—	0·6	0·0
Cleethorpes	cb	bo	42	65	Trace	-	1·0
Mablethorpe	c	c	43	54	Trace	-	1·5
Skegness	cb	bco	39	53	Trace	-	1·2
Aberystwyth	cuo	rr	43	55	Trace	8	0·0
Bath	c	c	38	55	Trace	-	0·0
Cheltenham	bbc	bco	46	66	-	-	0·7
Leamington Spa	oc	co	42	54	-	-	0·1
Lowestoft	o	o	41	53	-	-	0·9
Harwich & Dovercourt	oc	oc	38	53	-	-	0·0
Maldon	c	c	43	55	-	-	0·1
Ilfracombe	co	rr	47	55	-	8	0·0
Bude	oeco	orr	43	55	-	7	0·8
St. Ives	or	or	42	53	-	10	0·0
Penzance	cor	orr	50	55	-	12	0·0
Paignton	dpocog	op.q	43	56	Trace	Trace	0·8
Torquay	dogcaq	orqp	?	56	Trace	(Trace)	0·6
Jersey	bc	c	44	53	-	-	4·0
Weymouth	c	c	42	55	-	-	0·0
Bournemouth	o	co	43	54	-	-	0·1
Ventnor	pocu	cu	48	55	Trace	-	1·7
Portsmouth (S'thsea)	cbc	c	43	55	Trace	-	1·0
Bognor Regis	cbbc	bcc	41	54	-	-	2·2
Littlehampton	bc	bcc	39	53	-	-	0·6
Worthing	c	c	46	54	-	-	1·4
Brighton	bc	bc	43	53	-	-	1·3
Eastbourne	cbcc	c	51	65	-	-	2·5
Hastings	bcbbc	bcc	49	54	-	-	3·5
Folkestone	bc	bcc	46	55	-	-	5·3
Dover	bc	bcc	48	54	-	-	3·8
Deal	cbc	bcc	43	54	-	-	3·9
Tunbridge Wells	bcc	c	39	52	-	-	0·9
Ramsgate	bbc	bc	43	54	-	-	4·3
Margate	bc	bc	44	55	-	-	4·5
Southend	c	coc	42	53	Trace	-	0·2

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

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

† As 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.24822 Thursday 7th November 1929.

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

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	996.5	0	SW	2	bc	50	75	8	1500	StCu	2	Ast	4	•
Stornoway	997.5	+2	SW	2	c|PR	45	97	6	4000	CuNb	10	-	10	•
Wick	998.2	0	SW	3	bc	49	85	8	4000	StCu	4	CiCu	6	•
Tiree	998.2	0	SW	3	bc	49	85	8	4000	StCu	4	CiCu	6	•
Nairn	1001.0	+3	NW	4	cr	47	85	8	2500	Nb	8	CiSt	9	1
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	1000.2	0	SW	2	bc+	51	65	8	-	-	0	CiSt	3	1
Malin Head	1003.3	+4	W	5	bc|p	49	85	8	2500	CuNb	4	ACu	5	•
Renfrew	1002.6	0	SW	3	bc-	50	85	6	2500	Cu	5	Ci	6	2
Edinburgh (Inchkeith)	1001.3	+1	WSW	2	c	47	85	7	1500	St	4	Ast	9	•
Leuchars	1001.5	+1	SW'W	3	c	47	85	6	1500	St	3	CiSt	9	2
Eskdalemuir	1003.2	+1	SW	3	c	44	85	7	1500	StCu	6	Ast	9	2
Tynemouth	1002.2	0	W	1	fo-	49	85	4	1500	Nb	10	-	10	•
Blacksod Point	1007.0	+3	W	4	bc	51	65	8	•	CuNb	6	-	6	•
Donaghadee	1003.3	+1	W	2	bc+	49	75	8	4000	Cu	4	-	4	•
Birr Castle	1007.7	+3	NW	3	bc	50	75	8	4000	Cu	4	ACu	5	•
Holyhead	1005.7	+2	WNW	4	bc+	51	85	8	1500	Cu	7	CiCu	7	2
Liverpool (Bidston)	1004.2	+1	NW'W	4	c	50	85	8	1500	CuNb	2	Ast	9	•
Chester (Sealand)	1004.1	+1	WNW	4	c-	50	85	6	2600	St	7	Ast	8	1
Harrogate	1003.2	0	SSW	1	or.	48	92	5	2500	St	10	-	10	•
Spurn Head	1003.2	0	SW	2	orr	46	97	6	2500	Nb	10	-	10	•
Birmingham (Edgbaston)	1004.1	+1	NNW	3	cr-	47	97	4	1500	Nb	9	-	9	2
Cranwell	1003.8	0	SSE	1	orr	46	97	4	450	Nb	10	-	10	1
Gorleston	1004.6	-1	S	3	c	47	85	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	1011.8	+4	W'N	4	bc	52	75	8	2500	Cu	4	CiCu	6	2
Roches Point	1010.1	+2	N	3	bc|PR	51	85	8	2500	CuNb	3	-	3	•
Pembroke (St. Ann's H.)	1005.8	+1	NW	3	bc	51	97	8	2500	CuNb	3	ACu	6	•
Ross-on-Wye	1004.5	+1	NW	2	c-	49	92	8	2500	Nb	8	CiCu	9	2
Leafield	1003.7	+2	NNW	4	or.	47	97	8	800	Nb	10	-	10	2
Winchester (Worthy Dn.)	1003.4	+2	NNW	4	cr	48	97	7	800	Nb	8	Ast	10	2
S. Farnborough	1002.6	0	NW	1	or-	50	97	5	450	Nb	10	-	10	2
London (Kew Obsy.)	1002.8	-1	SSE	2	or.r.	49	97	5	1500	Nb	10	-	10	1
Croydon	1003.4	-1	S'E	3	or.r.	48	97	5	800	Nb	10	-	10	1
Shoeburyness	1004.1	-1	S'E	2	c|r	47	97	7	4000	StCu	8	Ast	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1004.9	0	SSE	3	or.r.	46	97	6	800	Nb	10	-	10	1
Scilly (St. Mary's)	1003.9	-2	SSE	3	c	47	85	6	1500	St	10	-	10	1
Falmouth (Pendennis)	1003.0	+3	NNW	6	bc	52	75	8	4000	Cu	5	-	5	•
Plymouth (Mt. Batten)	1008.8	+2	NW'N	4	bc	53	65	8	4000	Cu	4	-	4	•
Portland Bill	1006.7	+3	NNW	4	bc	52	65	8	4000	Cu	7	Ci	7	2
Southampton (Calshot)	1003.7	+3	WNW	5	c	53	85	8	1500	CuNb	7	Ast	8	•
Dungeness	1003.0	+2	NNW	6	c-	51	85	6	1500	StCu	6	ACu	9	1
Guernsey (St. Peter Port)	1003.6	-1	SSW	6	c|p	51	75	8	1600	Nb	10	-	10	•
	1007.0	+4	NW	3	c|pr.	54	85	7	1500	Nb	8	-	8	•

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

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
996.1	-1	SW	1	bc	47	85	8	1500	StCu	4	Ast	6	•
998.9	+2	W	2	bc|pr.	42	85	7	4000	CuNb	4	-	4	0
998.0	0	W	2	c|r.	44	92	8	1500	Nb	8	Ast	10	1
1002.9	+2	W'N	5	bc|PR	47	75	8	4000	CuNb	3	-	3	4
1000.4	•	W	2	bc+	43	85	8	4000	Cu	7	-	7	•
1000.2	0	SW	1	b-	43	85	6	-	-	0	Ast	1	0
1005.4	+2	WNW	5	bc	47	85	8	4000	Cu	3	ACu	4	4
1004.3	+2	WSW	2	b-	42	85	7	2500	Cu	<1	Ci	1	•
1001.3	0	WSW	4	b	46	85	8	-	-	0	ACu	2	2
1001.3	0	SW	1	b-	40	92	6	4000	StCu	2	-	2	•
1003.9	+2	W'N	3	bc-	43	85	7	1600	StCu	6	-	6	•
1003.7	+1	W	2	c	46	92	6	1500	CuNb	8	-	8	1
1007.5	+2	W	4	c	50	65	7	•	Cu	10	-	10	5
1006.6	+1	W	1	b-	43	75	8	4000	StCu	1	-	1	0
1009.9	+2	SW	1	c	44	92	7	-	-	0	CiCu	8	•
1007.4	+3	NW'W	6	bc	50	85	7	1500	Cu	5	CiCu	6	5
1006.4	+3	NW'W	4	c+	46	85	8	2500	Nb	9	-	9	•
1006.5	+3	W'N	4	bc|pr.	47	85	6	2500	Nb	7	-	7	•
1005.1	+1	SW	1	b	43	92	7	-	-	0	ACu	1	•
1003.9	0	W	2	o	46	97	6	2500	Nb	10	-	10	1
1007.4	+4	WNW	2	bc-	46	92	5	2500	Cu	5	-	5	•
1005.5	+4	W	3	od.	47	97	3	220	St	10	-	10	•
1004.6	0	SSW	1	odd.	46	97	5	1500	Nb	10	-	10	0
1012.5	+1	WSW	3	c|pr.	50	85	8	1500	St	5	Ast	8	4
1011.9	+3	N	3	bc	49	85	8	2500	CuNb	2	ACu	5	0
1009.7	+4	NW	3	bc	51	97	8	2500	Cu	4	Ast	6	2
1007.9	+5	W'S	2	b	45	85	8	4000	StCu	1	-	1	•
1007.3	+3	WNW	3	b-	43	92	8	4000	StCu	1	-	1	•
1007.4	+4	WNW	3	b-	45	92	8	2500	StCu	2	-	2	•
1006.7	+5	NW	3	c|pr.	48	85	7	4000	StCu	9	-	9	•
1006.4	+6	WNW	1	o	49	85	5	1500	St	10	-	10	•
1006.4	+4.5	NW	3	o|r	48	92	6	450	St	10	-	10	•
1005.1	+2	S	1	odd	48	97	6	800	Nb	10	-	10	•
1004.7	+1	SSW	2	o|r.	48	97	6	2500	St	10	-	10	3
1005.2	+2	WSW	1	or.r.	48	97	5	800	Nb	10	-	10	0
1004.8	+2	S'W	1	odd	48	97	3	<150	St	10	-	10	•
1013.1	+4	NNW	5	bc	50	75	8	4000	Cu	5	-	5	5
1012.8	+4	NNW	4	bc	49	76	8	4000	CuNb	4	-	4	1
1010.6	+4	NNW	3	bc	49	85	6	4000	CuNb	3	-	3	2
1007.8	+7	NW'W	5	b-	52	75	8	1500	StCu	2	-	2	5
1008.1	+5	W'N	3	bc-	47	75	8	5700	StCu	2	ACu	3	0
1004.2	+1	SSW	4	cd.	51	92	7	1500	StCu	10	-	10	3
1010.7	+5	NW	3	bc	52	75	8	2500	StCu	4	-	4	4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	odo	or.c	om,bm,	50	36	28	2	01	0.0	•	•	5
Croydon	244	cond.r.	om,ddjs	om,cbcb	49	32	33	2	tr.	0.0	•	•	5
City (Bunhill Row)	149	odd	oddfg	odbr.cm	49	36	27	2	tr.	0.0	98	82	4
Westminster (St. James' Pk.)	86	•	•	•	•	•	•	•	•	0.0	•	•	•
Regent's Pk. (Botanic Gdns).	27	•	•	•	50	36	31	3		0.0	94	93	•
Camden Square	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Kensington Palace	110	oro	oro	•	48	37	•	2	-	•	(At 18h)	94	•
Hampstead Observatory	450	or	o|.	•	49	35	28	2	-	•	97..	93	•
					48	34	26	3	03	0.0	•	94	•

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

7th-8th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.2	11.37	16.11
	7.4	11.37	16.10
Greenwich	7.5	11.44	16.22
	7.7	11.44	16.20
Wick	7.44	11.56	16 8
	7.46	11.56	16 6
Valentia	7.47	12.25	17.1
	7.49	12.25	17.0

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1·3	2h. 6m	0·3	4h 7m

Kew Observatory

Max.	Time.	Min.	Time.
0·4	14h 6m	0·1	2h 7m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 6h ..17..h..15..m. to 7th ..6..h..15..m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13·0	9 24	72
δ Ursae Minoris	13·0	8 48	68

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 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).

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

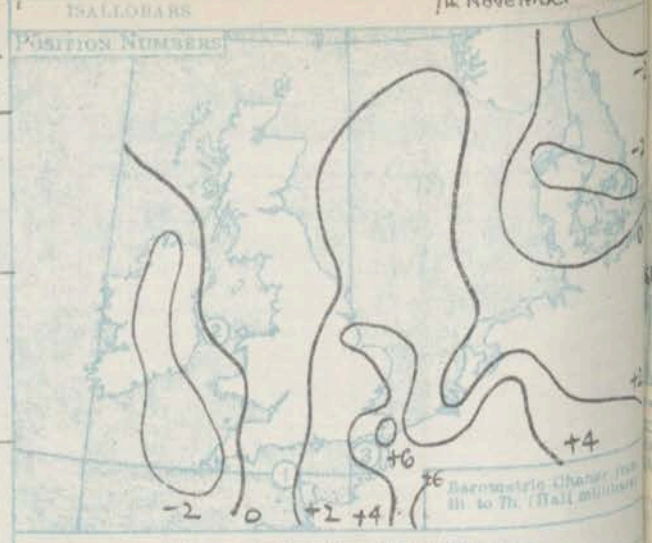
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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. 6H.	WEATHER. 18h.-18h. 6H.	WEATHER. 18h.-6H. to 1h.-7H.	WEATHER. 1h.-7h. 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 6H. Hours.
Lerwick	bc	bc	bcpr5	bcpr5	50	42	•	–	–	4	21·00	5·9
Stornoway	p	p	cprbc	bcprbc	46	38	•	4	<8.00	1	21·00	0·8
Wick	b-bc	cr5r	bbc	b-bc	49	36	•	0.1	16·30	0·3	21·00	•
Tiree	iRir	pr5bc	bc	prcpr	49	42	38	2	<8.00	2	24.00	2·3
Nairn	bcbc	bc	bcr	bc	50	37	•	–	–	–	–	4·3
Aberdeen	b	bcbwz5	bz5w	bz5x	51	32	25	–	–	–	–	1·5
Malin Head	bccir	bc	cirbcpr5	cr5c	50	44	•	3	9.00	1	21·00	2·3
Renfrew	bfxbcc	bcc,p5bcb	bbc	cdz m5	51	36	29	0.2	16.30	Tr.	5·30	4·0
Edinburgh(Inchkeith)	bcc	cbcb	bbf	bbf	49	41	38	–	–	–	–	0·0
Leuchars	bccm5	bccm5w	bbcxm5	bcxm5	47	34	23	Tr.	–	–	–	0·2
Eskdalemuir	cmofcc	cprcc	bcb	bxc×	44	32	26	1	16.30	–	–	0·3
Tynemouth	oir5ff	ommc	cbcb	bbc	51	40	33	0·3	9.00	–	–	•
Blackrod Point ...	pqbc	bcc	pc	cd	52	47	•	0·2	•	01	•	•
Donaghadee	b5bc	p5rb	bbc	bcc	50	37	•	0.6	14.30	–	–	•
Birr Castle	bepbc	bcc	c	cor5o	52	42	32	0·3	3·00	0·5	3·30	4·2
Holyhead	cbc	cbc	bc	c	52	48	45	–	–	Tr.	6·30	4·1
Liverpool (Bidston) ...	c	cp5b	crc	cbc	50	42	40	Tr.	16.30	1	22·00	1·3
Chester (Sealand) ...	cmmdz5	c	prbcb	bccm5	51	38	34	0·2	9.00	1	21·00	1·4
Harrogate	cfcoir5	or5cb	b	bbcc	48	37	31	0.6	9.00	–	–	0·0
Spurn Head	corr	orro	orcbc	bc	48	40	•	7	9.00	1	21·00	0·0
Birmingham (Edgbaston)	orr	or5c	bcprb	bbc	48	39	36	8	<8.00	0·2	21·00	0·0
Cranwell	oddrr	r5rddm	od5fb	bm5w	47	36	34	5	<8.00	0·1	21·00	0·0
Gorleston	cm5	crmod5	od5dc	bcbm5	47	36	35	0.6	14.30	0·5	21·00	0·0
Valentia(Cahirciveen)	becphr	bccp5	cpr	cirod	52	44	46	2	9.00	2	21·00	2·9
Roches Point	bcqPbc	bc	bcco	o1r5c	52	46	•	0·3	12·30	1	3·30	•
Pembroke(St.Ann's H.)	bcq	bc	bc	bcodd	52	49	•	–	–	0·5	4·30	6·5
Ross-on-Wye	rroc	cbcb	b	bwcc	52	39	33	6	<8.00	–	–	1·6
Leafield	ofrr	ir5c	b	bbcc	49	36	32	13	<8.00	–	–	0·2
Winchester (Worthy Dn.)	orrm5	crcbc	b	bbccm5	51	35	30	6	<8.00	–	–	0·4
S. Farnborough ...	oddrrm	or5rc	cpbb	bcx	50	34	22	3	<8.00	Tr.	21·00	0·2
London (Kew Obsy.) ...	od5	or5c	dm5om5	bmzbcx	50	36	28	2	<8.00	0·1	–	0·0
Croydon	comdr	omdaff	om5cbcb	bbcwm5	49	38	33	2	<8.00	Tr.	–	0·0
Shoeburyness	cr5c	oddm5	od5m5cb	bm	48	36	31	1	<8.00	Tr.	21·00	0·0
Clacton-on-Sea ...	com	omrogm	ogmd	cbcb	48	38	34	3	14.30	1	21·00	0·0
Felixstowe	od5rr5	orrm5r5	os5cbcb	bwm5	48	40	36	2	11.00	1	21·00	0·0
Lympne	od5m5m	odfradff	oddzbcm	bwm5x	48	34	28	1	9.00	2	21·00	0·0
Scilly (St. Mary's) ...	bcp5	bcp5	bcc	cor	54	49	•	0.2	9.00	1	5·30	6·5
Falmouth (Pendennis)	cp5bc	bcp5	bcc	cr5	54	48	•	0.6	<8.00	Tr.	3·30	6·7
Plymouth (Mt.Batten)	crmorbc	cpr5bm5	cb	bwor5m5	54	43	40	1	<8.00	Tr.	6·30	4·3
Portland Bill	or5c	cbc	b	bbcc	54	49	•	3	<8.00	–	–	•
Southampton (Calshot)	orr5cdm5	cm5cbc	bw	bwbcc	54	39	35	3	<8.00	Tr.	–	1·3
Dungeness	c	cpred5	cd5cbcmb	bbcbcx	52	37	•	0.2	19.30	1	21·00	•
Guernsey	opocp	cbc	bcbc	bcc	55	49	41	1	<8.00	–	–	1·9



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	6m 10h	Cambria	WNW	4	bc	49	54

GENERAL INFERENCE.

A large depression centred south of Iceland is moving eastward together with associate secondaries. Unsettled conditio with some rain are likely to spread from our western district to become general over the country.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 7th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate southwesterly winds, freshening later; cloudy, some rain; temperature rising somewhat.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Fresh to strong southwesterly winds, stronger at times later; cloudy, rain; rather mild.	
8. N.W. England 9. N. Midlands	Fresh southwesterly winds, strong at times later; cloudy, rain; rather mild.	
10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man 13 A. W.Scotland 13 B. N.W.Scotland 14. Mid-Scotland	As 4 - 7.	
15. N.E. Scotland 16. Orkneys and Shetlands	As 1 - 3.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 7.	

Wnf.

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

† Trace = rain has fallen but amounts less than

† For code see page 1

SYNOPTIC CHART FOR 7h. THURSDAY, 7TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

Cu. Nb 3.

Bar.

Barometer

LOW.

Rising

Falling

Slowly.

Barometric changes slight

H I G H.

1016

1014

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

Cloud: ○ Sky less than ½ clouded. ◐ sky ½ clouded. ● sky more than ½ clouded. ⊗ overcast sky. ≡ fog. ≡ mist. ▽ shower. ▽ rain falling. ▽ ice. ▽ snow. ▽ hail. ϟ thunderstorm.

DISTURBANCE. ~ Rough. ~ Very Rough.

GALE. ⚑ Barometric change from 0 to 7 in half millibars is entered with the wind for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Thursday, 7th November 1929. No. 311

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 7th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 7th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain 0-1
Lerwick	34	29.58	0	SW	1	bcjp	45	75	8	1500	CuNb	3	Ast	5	29.72	+1	WSW	1	bcjp	43	85	8	1500	CuNb	.3	Acu	5	.01
Stornoway	30	1000.8	+1	W	3	bc-	*	*	7	*	*	*	*	4	1000.4	+1	WNW	2	bc	39	92	7	4000	CuNb	4	Acu	5	
Wick	81	29.26	+1	SW	3	bc	39	92	8	2500	Stcu	3	-	3	1000.1	+1	WSW	3	bc	39	92	8	4000	Cu	3	-	3	
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.9	0	SW'S	2	bc-	43	97	7	2500	Stcu	5	CiCu	7	
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.7	*	W	1	bc	40	75	8	4000	Cu	5	-	5	
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.3	+2	SW	1	b	32	92	6	-	-	0	Acu	1	.0
Malin Head	61	1006.1	0	SW	2	Cr.	47	92	7	2500	Nb	4	Ast	10	1004.5	-2	SSW	4	C	45	97	7	2500	Stcu	9	-	9	5
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.9	+1	S	1	C+	39	97	7	4000	Stcu	8	Acu	9	.0
Edinburgh (Inchkeith)	100	1003.8	+3	WSW	3	b	42	97	7	800	St	2	-	2	1005.0	+1	SW	2	bc	44	97	8	-	-	0	Acu	4	.0
Leuchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.3	+2	SW	3	bc	37	97	6	-	-	0	Acu	4	
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.1	+1	-	0	C-	35	97	6	800	Stcu	9	-	9	.1
Tynemouth	67	1006.9	+2	W	3	b	40	85	7	-	-	0	-	0	1007.7	+2	WSW	1	bc	40	92	5	800	St	4	-	4	5
Blacksod Point	18	1006.1	-1	S	3	C	50	85	6	*	-	0	Ast	10	1003.4	-1	W	3	odd	54	92	7	*	Nb	10	-	10	.0
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.8	0	W	1	C	45	85	8	4000	Stcu	8	-	8	.1
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.1	-1	S	1	o	53	97	7	2500	St	10	-	10	
Holyhead	26	1009.7	+1	W'S	4	bc+	49	85	7	2500	Stcu	7	-	7	1008.8	-1	SW'S	4	Cr.	50	92	8	800	Nb	10	-	10	.1
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.6	0	S	3	bc-	43	85	7	2500	St	5	Acu	7	
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.2	0	S'E	3	C	40	92	6	4000	St	9	-	9	
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	+1	SW	3	C+	42	92	7	4000	Nb	7	Acu	9	.1
Spurn Head	29	1006.7	+2	SW	5	bc	44	92	6	800	St	5	-	5	1009.8	+2	W	3	bc	41	97	6	1500	St	3	-	9	.1
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.1	+2	S	2	C+	40	92	6	-	-	0	Ast	9	
Cranwell	250	1009.1	+3	W'S	4	b-	39	92	5	-	-	0	-	0	1011.9	+4	SW'W	3	b	37	92	7	5700	Stcu	1	CiCu	1	.0
Gorleston	14	1006.9	+2	W'N	3	bc-	44	92	6	-	-	0	Ast	4	1010.2	+4	W	3	b	37	92	6	-	-	0	-	0	
Valentia (Cahirciveen)	30	1008.0	-2	SSW	4	odd	50	97	6	*	St	10	-	10	1008.9	-1	W'S	3	od	54	97	4	220	St	10	-	10	.1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.4	-2	W	1	C	51	97	7	1500	CuNb	9	-	9	.2
Pembroke (St. Ann's H.)	150	1011.9	+1	W	3	bc	51	97	8	2500	Cu	3	Ast	7	1010.1	-1	SW	3	odud.	50	97	6	800	St	10	-	10	
Ross-on-Wye	328	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.0	+1	SW	2	C	43	92	7	2500	St	8	Ast	10	
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+2	SW'W	3	C	39	92	7	-	-	0	Acu	9	
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.0	+3	SE	1	C	37	97	6	4000	Stcu	4	CiSt	9	.1
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.9	+3	-	0	bc	35	97	6	-	-	0	Cu	6	
London (Kew Obsy.)	18	*	*	*	*	41	*	*	*	*	*	*	*	*	1013.9	+3	SW'S	1	bc+	37	97	5	-	-	0	CiCu	7	
Croydon	244	1011.3	+4	W'N	3	b-	41	92	6	1500	St	1	-	1	1013.8	+3	SW'W	1	bc+	38	92	6	-	-	0	Acu	9	.1
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.5	+3	SW	2	b	37	97	5	-	-	0	Acu	2	2
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.5	+4	W	3	b	38	92	7	2500	Cu	2	-	2	1
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+4	W'S	3	b	40	97	6	-	-	0	Ci	1	
Lympne	350	1009.7	+5	NW	3	Sbb	41	97	3	-	-	0	-	0	1013.4	+5	NW	3	b	34	97	5	-	-	0	Acu		.1
Scilly (St. Mary's)	163	1014.2	0	WNW	4	C	50	85	7	4000	Stcu	9	-	9	1012.1	-2	SW	5	Cr.Cr.	51	97	6	2500	Nb	10	-	10	.1
Falmouth (Pendennis)	200	1014.8	+1	WSW	3	C	48	85	8	4000	Stcu	9	-	9	1014.1	-2	SWW	4	Cr.	49	92	7	4000	Stcu	10	-	10	.2
Plymouth (Mt. Batten)	98	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.9	0	SW	4	odd.	49	92	5	4150	St	10	-	10	.3
Portland Bill	32	1012.3	+2	WNW	3	b	50	75	8	-	-	0	-	0	1012.6	0	WSW	3	Cr	53	75	8	1500	Stcu	10	-	9	.0
Southampton (Calshot)	10	1012.3	+2	WNW	3	b	41	92	8	-	-	0	-	0	1014.4	+2	W'S	2	C	43	85	7	7200	Stcu	5	Ast	3	.2
Dungeness	20	1010.1	+5	WNW	1	b/m	40	97	6	-	-	0	-	0	1014.0	+6	N	2	bc+	37	97	8	-	-	0	Ast	3	.3
Guernsey (St. Peter Port)	178	1015.0	+4	NW	3	bc	51	85	8	2500	Cu	4	-	4	1016.0	+2	SW	1	bc	49	85	7	4000	Stcu	6	-	6	

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-5th to 6th. °F.	Temperature. Max. 9h.-17th. 6th. °F.	Rainfall† Night 17h.-9h. 5th-6th. mm.	Rainfall† Day 9h.-17h. 6th. mm.	Sunshine. Sunrise to Sunset. 6th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	44	50	-	-	1.7
Douglas (I. o. M.)	cbc	rhpr	41	50	0.3	0.5	4.0
Llandudno	c	becr	48	52	3	1	2.7
Colwyn Bay	ocbc	bbcor	48	53	2	2	1.5
Rhyl	c	c	46	56	2	-	1.8
Wallasey	oc	cbcc	47	52	2	-	1.1
Southport	oco	obccp	46	51	5	0.4	1.3
Blackpool	oc	bc	45	52	9	-	1.3
Morecambe	o	o	45	51	14	-	0.0
Ilkley	omr	c	42	50	4	0.4	0.0
Claethorpes	dor	rod	46	46	Trace	8	0.0
Mablethorpe	admrr	omrr	45	47	Trace	6	0.0
Skegness	or	rom	45	46	0.5	8	0.0
Aberystwyth	rcbc	bcp	43	53	16	0.3	3.1
Bath	rrc	cbcc	48	52	15	2	1.3
Cheltenham	oir	orc	46	52	22	4	0.0
Leamington Spa	or	ro	44	54	13	6	0.0
Lowestoft	c	od.	45	47	-	0.6	0.0
Harwich & Dovercourt	oc	ocr	45	49	-	1	0.0
Maldon	oir	oir	44	47	Trace	2	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	cbc	bcpc	44	54	16	0.1	3.8
Bude	cpqbc	bcpqc	41	53	8	1	4.8
St. Ives	b	c	46	56	15	-	5.1
Penzance	b	b	46	55	13	-	7.1
Paignton	ombc	bcw	49	55	15	-	5.3
Torquay	orrpob	bcm.	49	56	14	Trace	5.6
Jersey	rbcc	cpc	44	55	19	0.3	0.8
Weymouth	rcb	bcb	49	54	17	Trace	4.3
Bournemouth	ro	obcc	49	54	20	1	1.5
Ventnor	o(p)c	cbc	45	52	7	1	1.7
Portsmouth (S'thsea)	orc	cbc	47	54	6	1	0.8
Bognor Regis	rc	rc	48	53	5	2	0.0
Littlehampton	crcr	cbc	48	53	6	2	0.0
Worthing	or.d	crdc	48	53	7	2	0.0
Brighton	r	crd	47	53	6	2	0.0
Eastbourne	r.r.	rr.or.	47	53	0.5	2	0.0
Hastings‖	cpd.o	ordoe	46	51	-	2	0.0
Folkestone	o	odd	44	49	-	0.2	0.0
Dover	co	or.	46	50	-	0.3	0.0
Deal	o	od.	43	48	-	Trace	0.0
Tunbridge Wells	odo	ododm	44	49	0.3	2	0.0
Ramsgate	c	cor	43	50	-	0.4	0.0
Margate	c	cr	44	50	-	0.6	0.0
Southend	omd	orf	46	48	Trace	2	0.0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24.823 Friday 8th November 1929. Page 1.

Observations at 18h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	998.4	0	SW	3	bc	48	66	8	1500	Cu	4	Cist	7	•
Stornoway	996.0	-7	S	4	o|pr	49	92	6	1500	Nb	10	-	10	•
Wick	1000.2	-2	SW	3	c	47	85	8	2500	StCu	6	ASt	9	•
Tiree	997.7	-6	S'W	5	odd	50	97	5	220	St	10	-	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1003.3	-2	SW's	3	c+	46	75	6	-	-	0	ACu	9	1
Malin Head	999.7	-3	S'W	5	c	51	97	7	1500	St	9	ACu	9	•
Renfrew	1003.9	-4	SSW	3	c	50	85	7	1500	StCu	9	ASt	10	2
Edinburgh (Inchkeith)	1004.0	-2	SW	2	c	49	85	8	800	St	2	ASt	10	•
Leuchars	1003.8	-3	SW	3	c	49	85	7	4000	StCu	4	ASt	9	2
Eskdalemuir	1005.1	-4	S'W	5	c	46	92	6	1500	St	10	-	10	2
Tynemouth	1007.2	-1	SW	2	bc|f	48	85	6	800	St	5	ACu	7	•
Blacksod Point	998.7	-2	S	4	od+	55	92	7	•	Nb	10	-	10	•
Donaghadee	1002.5	-5	S	3	c	51	92	8	4000	StCu	9	-	9	•
Birr Castle	1004.4	-3	S	1	orr	55	97	7	2500	St	10	-	10	•
Holyhead	1006.3	-5	S	5	c|d	51	97	6	220	St	9	ASt	10	1
Liverpool (Bidston)	1007.6	-3	SSE	3	c	51	85	9	2500	Nb	9	ACu	10	•
Chester (Sealand)	1007.9	-4	SSE	4	c	51	85	6	2500	St	10	-	10	1
Harrogate	1008.6	-1	S	2	mc	47	85	4	2150	St	3	ASt	9	•
Spurn Head	1010.2	0	SW'W	3	c+	49	85	7	5700	StCu	5	Cist	9	•
Birmingham (Edgbaston)	1010.7	-3	SSW	3	bc	49	85	6	2500	Cu	2	ASt	7	2
Cranwell	1011.3	-3	SSW	3	c	48	85	7	4000	StCu	7	ASt	9	1
Gorleston	1013.4	0	WSW	2	b	50	92	7	-	-	0	Ci	2	•
Valentia (Cahirciveen)	1004.4	-7	SW's	5	orr	57	97	6	450	St	10	-	10	2
Roches Point	1007.6	-4	SW	2	or	55	97	5	800	St	10	-	10	•
Pembroke (St. Ann's H.)	1008.9	-2	WSW	2	c|d	55	97	7	-	-	0	Cist	10	•
Ross-on-Wye	1010.8	-2	S'W	3	o	49	85	7	2500	Nb	10	-	10	2
Leafield	1011.8	-1	SSW	4	c	49	85	8	2600	StCu	7	ACu	9	2
Winchester (Worthy Dn.)	1013.3	-2	S	3	c	51	85	6	6700	StCu	5	ASt	10	1
S. Farnborough	1013.3	-2	S'W	3	c	52	75	7	2500	StCu	5	Cist	9	2
London (Kew Obsy.)	1013.7	-2	SSW	3	c	50	85	6	7200	StCu	7	ASt	9	1
Croydon	1014.1	-1	SSW	3	c	50	85	6	-	-	0	ASt	9	1
Shoeburyness	1014.8	+1	SW	3	bc+	50	85	7	-	-	0	ACu	4	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1014.2	-1	SW's	3	bc	51	85	7	-	-	0	Ci	4	1
Lympne	1014.3	-1	S'W	2	c+	48	75	6	-	-	0	ACu	8	1
Scilly (St. Mary's)	1012.2	-1	W'N	5	ffo	54	97	2	800	St	10	-	10	•
Falmouth (Pendennis)	1012.5	0	WSW	3	odd	55	97	5	1500	St	10	-	10	•
Plymouth (Mt. Batten)	1011.2	-4	WSW	3	o|d	54	97	6	220	St	10	-	10	2
Portland Bill	1012.6	-1	SSW	5	o|p	51	92	6	1500	Nb	10	-	10	•
Southampton (Calshot)	1014.2	-1	SSW	4	c	53	75	7	2500	StCu	6	ASt	10	0
Dungeness	1015.2	-1	W	2	c	52	75	7	2500	StCu	4	ACu	8	•
Guernsey (St. Peter Port)	1015.8	-2	S	3	orr	50	97	6	1500	Nb	10	-	10	•

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	994.5	-7	S	4	c	48	75	8	1500	StCu	5	ASt	9	•
Stornoway	986.3	-11	SSW	7	odd	51	97	6	1500	Nb	10	-	10	6
Wick	993.1	-9	SSW	6	c	49	85	8	1500	St	8	ASt	10	3
Tiree	991.5	-8	S	6	odd	52	97	6	220	St	10	-	10	6
Nairn	992.4	•	WSW	3	c+	51	75	7	2500	StCu	8	-	8	•
Aberdeen	997.7	-7	S	4	cr	49	85	6	1500	Nb	8	ACu	10	0
Malin Head	993.5	-7	S	5	c|d	55	97	7	800	St	8	ASt	10	5
Renfrew	993.6	-4	S	3	cd	52	97	6	1500	St	8	ASt	10	•
Edinburgh (Inchkeith)	994.4	-6	SW	1	c	51	86	8	2500	St	4	ASt	10	0
Leuchars	993.0	-6	SSE	2	c|r	49	85	7	1500	Nb	8	ASt	10	•
Eskdalemuir	1001.1	-5	S	4	odd	46	97	5	450	St	10	-	10	•
Tynemouth	1003.2	-3	W	2	o	48	92	6	800	St	10	-	10	1
Blacksod Point	995.7	-2	S	4	oD-	55	97	7	•	Nb	10	-	10	6
Donaghadee	[illegible]	-5	SW	3	od	53	97	6	1500	St	10	-	10	2
Birr Castle	1000.0	-3	S	1	orr	57	97	7	2500	St	10	-	10	•
Holyhead	1002.8	-5	S'W	4	oDD	54	97	5	450	Nb	10	-	10	4
Liverpool (Bidston)	1004.1	-2	SSE	4	orr	49	92	7	1500	Nb	10	-	10	•
Chester (Sealand)	1005.0	-3	SSE	4	cr	51	92	6	1500	St	8	ASt	10	•
Harrogate	1005.9	-2	S	2	o	48	85	6	2500	St	10	-	10	•
Spurn Head	1008.4	-1	S'W	4	c	47	97	6	4000	CuNb	6	Cist	9	3
Birmingham (Edgbaston)	1008.1	-3	S	4	o|d	48	97	7	1500	Nb	10	-	10	•
Cranwell	1008.6	-2	S	4	c+	48	85	7	2500	StCu	8	ASt	10	•
Gorleston	1012.2	-1	S'W	3	bc-	48	85	6	-	-	0	Ci	4	0
Valentia (Cahirciveen)	1002.2	-1	SW	4	odd	56	97	6	220	St	10	-	10	5
Roches Point	1004.1	-3	SW	2	c	55	97	7	1500	CuNb	9	-	9	4
Pembroke (St. Ann's H.)	1005.6	-3	SW	3	orr	56	97	6	450	St	10	-	10	3
Ross-on-Wye	1007.7	-2	S	2	or	52	97	6	1500	Nb	10	-	10	•
Leafield	1009.0	-2	S'E	4	orr	47	97	6	800	Nb	10	-	10	•
Winchester (Worthy Dn.)	1011.2	-2	S	4	od	49	97	6	220	Nb	10	-	10	•
S. Farnborough	1011.4	-2	SSW	4	or	50	92	7	1500	St	10	-	10	•
London (Kew Obsy.)	1011.8	-1	SSW	2	c	50	86	6	-	-	0	ASt	10	•
Croydon	1012.3	-2	SSW	3	c	50	85	6	4000	StCu	9	-	9	•
Shoeburyness	1013.1	-1	SW	3	c	49	92	8	5700	StCu	3	ACu	8	•
Clacton-on-Sea	1012.6	-1	SSW	4	c	50	92	7	4000	Cu	8	-	8	4
Felixstowe	1013.1	-1	S	4	c+	50	92	6	4000	StCu	7	Ci	9	3
Lympne	1013.6	-1	S'W	2	cr	49	92	7	1500	Nb	8	ASt	10	•
Scilly (St. Mary's)	1009.3	-3	WSW	5	orr	55	97	3	800	St	10	-	10	5
Falmouth (Pendennis)	1010.5	-2	SW'W	4	or+	55	97	6	2500	Nb	10	-	10	1
Plymouth (Mt. Batten)	1009.8	-1	SW	4	orr	56	97	6	2150	Nb	10	-	10	4
Portland Bill	1010.1	-3	SW	5	o	55	92	8	1500	Nb	10	-	10	6
Southampton (Calshot)	1012.4	-2	S'W	4	odd	52	92	6	800	Nb	10	-	10	3
Dungeness	1013.6	-2	SW	3	cr	53	75	8	1500	Nb	10	-	10	3
Guernsey (St. Peter Port)	1013.4	-2	SW	3	odd	55	97	4	1500	Nb	10	-	10	3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility §§
		24 HOURS ENDED 9h.			YESTERDAY.						TO-DAY.		
Kew	18	bc-cm,	com,	pacRd,	53	51	49	Tr	12	0.4	*	*	5
Croydon	244	bcm,	cm Tr	CigRR	52	50	48	-	9	0.3	*	*	6
Greenwich (Royal Obsy.)	149	c	c	cdrRR	52	50	46	-	10	0.1	76	97	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	56	52	47	11		0.0	85	99	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	0.1	*	*	*
Camden Square	110	oc	c	*	50	50	*	-	11	*	*	99	*
Kensington Palace	80	co	om	*	53	51	48	-	12	*	(At 18h.) .83	99	*
Hampstead Observatory	450	*	*	*	51	47	45	-	12	0.1	*	99	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Time.	Min.	Time.
Max. 1.0	11h 7m	0.3	22h 7m

Kew Observatory	Time.	Min.	Time.
Max. 0.5	9h 7m	< 0.1	1h 8m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 7h. 17m. to 8h. 6h 15m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	Nil	Nil
δ Ursae Minoris	13.0	Nil	Nil

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 15h. and 13h. 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, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.4	11.37	16.10
	7.5	11.37	16.8
Greenwich	7.7	11.44	16.20
	7.9	11.44	16.18
Wick	7.46	11.56	16.6
	7.48	11.56	16.3
Valentia	7.49	12.25	17.0
	7.51	12.25	16.58

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

With present weather is combined, whenever possible, the general character of the weather.
A "sandwich" divides actual existing weather from preceding conditions, thus:—bc|r = fair weather after rain; - = has decreased; + = has increased.

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	11¼ "
8. Very good.	33 "
9. Excellent visibility, beyond 21 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. Part

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 7h.	WEATHER. 18h.-19h. 7h.	WEATHER. 18h. 7h. to 1h. 8h.	WEATHER. 1h.-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. mre.	RAINFALL.† Night. 18h.-7h. began.	SUN 7h. Hours.
Lerwick	bc.	bcc	cdir	drrcbcg	48	45	.	-	-	18	21.00	4.1
Stornoway	p	r-dq	r	ORRC	51	42	.	2	11.00	13	21.00	0.0
Wick	c	c	prrr	cr.bc	49	43	.	-	-	04	22.00	.
Tiree	c	cid.	crr	c	52	46	40	0.4	12.30	5	21.00	0.0
Nairn	bcc	cd.	cpr	qprbc	51	45	.	Tr.	14.30	2	22.00	1.9
Aberdeen	b, cz.	cz.cir.	c.rm.	cirrcbcb	49	43	38	Tr.	16.30	3	21.00	3.1
Malin Head	ce	cd.	rmbqrjd	bcRR	56	46	.	0.1	15.30	6	21.00	0.0
Renfrew	cm.c	cm.d.r.	cr.orrd	orbcpr	52	46	40	0.1	16.30	6	21.00	0.3
Edinburgh (Inchkeith)	bcc	c	cpr	cirbcb	51	47	45	-	-	3	21.00	1.8
Leuchars	bcxbbcmc	cir.c	crc	cRC, b	49	42	33	0.1	14.30	4	24.00	2.2
Eskdalemuir	cxcidcmcmodd.rg	addcrr	orro	47	44	36	2	11.00	20	21.00	0.0	
Tynemouth	bcff	bcc	cir.	cir.	49	45	46	-	-	2	22.00	.
Blacksod Point ...	dd	dd	pqc	pc	56	45	.	3	.	3	.	.
Donaghadee	c	oidm.	rr.r.	cbc	53	46	.	1	15.30	4	21.00	.
Birr Castle	cir.	or.r.	or.r.	orr.bc	57	46	39	2	18.00	3	21.00	0.0
Holyhead	d.Ddd	id.r.	rrir.	rm.c	54	52	50	4	18.00	9	21.00	0.0
Liverpool (Bidston) ...	bccv	v p r.	r.r R	or R	51	49	47	0.1	15.30	12	21.00	0.3
Chester (Sealand) ...	cm.	com.	bcR r.	curkqr	51	50	48	Tr.	17.30	7	21.00	0.0
Harrogate	cm	mco	ocrr	ocrrb	48	48	46	-	-	6	21.00	0.0
Spurn Head	bcc	c	corr	orrc	51	46	.	-	-	8	22.00	4.7
Birmingham (Edgbaston)	c bc	bcod.	orr	cur	50	48	47	0.1	1530	7	21.00	0.1
Cranwell	cm.	c	(c,cRRm)	orm.	51	47	47	-	-	13	22.00	0.8
Gorleston	bm.b	bbc	bccqq	orrq	52	46	44	-	-	5	1.30	5.8
Valentia (Cahirciveen)	cdorrcc	orrcdd	od.d.r	cbc	58	50	44	7	18.00	3	21.00	0.0
Roches Point	cor.	cir.c	c.c	bcbc	56	50	.	3	9.00	-	-	.
Pembroke (St. Ann's H.)	c(d.)	crrm	crrfs	curbc	55	54	.	4	18.00	2	1.30	0.0
Ross-on-Wye	co	oco	rrro	urbcc	52	51	50	-	-	7	21.00	0.0
Leafield	c	codr	orr	ORd	50	47	47	1	16.30	7	21.00	0.3
Winchester (Worthy Dn.)	c m.	cmradm	oduirr	orrmir	52	49	48	0.1	15.30	8	21.00	0.0
S. Farnborough ...	bcc fmc	cd.	or.corr	orr	52	50	48	0.1	15.30	6	21.00	0.2
London (Kew Obsy.) ...	bcxcm.	com.	orrc	cRcmgh.	53	50	49	Tr.	-	12	22.00	0.4
Croydon	bccm.	cm.z.	cqddqddrg	orm RR	52	50	48	-	-	9	21.00	0.3
Shoeburyness	bbcm.	bm.c	c	circrr	54	48	47	-	-	9	24.00	3.2
Clacton-on-Sea ...	b bcm	bcmc	co	ORR	52	50	48	-	-	10	2.30	5.2
Felixstowe	bz.	bccz.	cz.o	orrm.	51	49	48	-	-	13	1.30	5.6
Lympne	bbcm.	cpr.r.	ctcodm.	odmrrf	49	46	45	0.1	15.30	9	21.00	3.5
Scilly (St. Mary's) ...	or.ff	offrr	ossrr	orssbc	55	52	.	3	9.00	3	21.00	0.0
Falmouth (Pendennis)	cromd.	om D	om.dy	ojdo	55	54	.	2	18.00	6	21.00	0.0
Plymouth (Mt Batten)	add m.	odrm.	orrm.	orrm.r.	55	54	54	4	18.00	9	21.00	0.0
Portland Bill	cz.	cd.	orrm.	orrc	56	55	.	1	13.30	11	21.00	.
Southampton (Calshot)	cm.fc	cdd m.	oddrrm.	orrdom.	54	51	50	0.2	14.30	10	21.00	0.0
Dungeness	bcc	c r.c	cor.	ocrr r	53	51	.	0.4	15.30	5	24.00	.
Guernsey	orr	oddod	oddod.	orrod	55	50	54	2	9.00	17	21.00	0.0

Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	7th 10h	Camoria	SSW	5	mo+	53	54
1	" 12h	St Helier	SW	6	fo	54	57
3	8th 2h	Dieppe	SW	6	dd	55	54

GENERAL INference

A ridge of comparatively high pressure is spreading from the west over the country but will soon be succeeded by another depression from the Atlantic. After further rain at first in Southeastern England bright intervals will be general with showers locally but unsettled conditions are likely soon to be renewed on the western seaboards of Scotland and Ireland.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 8th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh westerly winds, veering northwesterly and moderating somewhat: some drizzle early, then bright intervals and local showers; moderate temperature; ground frost tonight.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Fresh to moderate northwesterly winds, backing later; bright periods and local showers today, becoming cloudy tomorrow with perhaps some rain later; ground frost inland tonight.	
10. N.E. England 11. S.E. Scotland	Fresh to moderate northwesterly winds, tending to back later; bright periods; local showers; moderate temperature; ground frost inland tonight.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. NW. Scotland 14. Mid-Scotland	Fresh northwesterly winds, backing to southwesterly; bright periods with local showers at first, cloudy with rain later; moderate temperature.	
15. N.E. Scotland 16. Orkneys and Shetlands	As 4 - 9.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 12 - 14.	

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

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

SYNOPTIC CHART FOR 7h. Friday, 8th NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

LOW.

Barometer Falling

Brisky.

Barometer (15) 46 Fine

Rising Rapidly

Barometer Rising

Barometer Falling

Barometer Falling Slowly.

HIGH.

LOW

HIGH.

(39) 45 Cloudy.

(28) 39 Ocast.

(22) 46 Rain

(22) 34 Ocast.

(32) 48 Rain.

(18) 45 Fine

(15) 46 Fine

(28) 44 Cloudy

(15) 44 Fine

(15) 45 Fine

(10) 46 Showers.

(28) 47 Fine

(5) 52 Fine

(15) 47 Cloudy.

(2) 46 Fine

(28) 52 Fine

(15) 53 Cloudy.

(15) 50 Fine

(10) 55 Fine

(10) 54 Cloudy.

(21) 52 Rain

(28) 43 Rain

(10) 41 Fog.

(10) 55 Drizzle

(10) 56 Cloudy

(15) 45 Rain

(2) 41 Ocast.

(21) 57 Fine

(10) 57 Drizzle.

(19) 48 Rain

(11) 48 Rain

(3) 41 Fog.

(2) 43 Fog.

(5) 57 Rain

(16) 43 Cloudy

(2) 41 Cloudy.

(11) 48 Rain

(2) 61 Drizzle

(5) 52 Cloudy.

(2) 43 Cloudy

41 Cloudy.

1001 (21) 45 47 Sea. Fine

1004

1006

1008

1010

1012

1016

1020

1018

1000

998

996

994

992

990

988

986

984

982

980

(15) 51 56 Sea. Fine

(10) 52 51 Sea. Fine

(15) 52 56 Sea. Fine

"MAJESTIC" "LAPLAND"

EXPLANATION.

Isobars are drawn for intervals of two millibars.

Arrows as with the wind. Number of feathers indicates Beaufort Scale. Mean Velocity in miles per hour entered in small circles.

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS.

CLOUD AMT. ○ sky less than ½ clouded. ◐ sky half clouded. ● sky more than ½ clouded. ⊗ overcast sky. ⊜ rain falling. ≡ fog. ≋ mist. ϟ thunder. ϟ thunderstorm.

SEA DISTURBANCE. Very Rough, Rough, Moderate, Slight, Calm.

PRESSURE. Barometric change from 8h. to 7h. in half millibars is entered beneath the word for weather.

H.M. Stationery Office, Little Prue, Ringsway, W.C. 2.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Friday, 8th November, 1929. No. 312.

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

STATIONS.	Height above M.S.L. in feet.	Baromr. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	34	0793	-15	S	9	orr	50	97	7	1500	Nb	10	-	10
Stornoway	30	0850	+7	W	5	orr	*	*	6	*	*	*	*	10
Wick	81	0814	-4	SW	4	c6s6	64	85	8	1500	Nb	8	Fst	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	0931	+4	W	6	bc/p6	51	97	7	2500	CuNb	4	-	4
Renfrew	86	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	0890	-8	SW	4	0/6	56	92	8	1500	St	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	0942	-6	SSW	4	0/r	50	97	6	1500	Nb	10	-	10
Blacksod Point	18	0987	+2	W	4	c	51	75	6	*	CuNb	8	-	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	0983	-3	SW's	5	or-	55	97	5	450	Nb	10	-	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	0990	-3	SW's	5	or+	47	97	6	2500	Nb	10	-	10
Birmingham (Edgbaston)	685	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	336	(1000·9)	(-7)	(S'E)	(4)	(cRR)	(5)	(97)	(6)	(800)	(Nb)	(9)	(BSh)	(10)
Gorleston	14	1006·3	-3	S	6	0	50	97	7	2500	Nb	10	-	10
Valentia (Cahirciveen) P	30	1002·6	+5	SW	4	od6do	60	97	6	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1000·2	-2	W	3	c/s	56	97	7	1500	Stu	10	-	10
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dal.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	53	*	*	*	*	*	*	*
Croydon	244	1006·6	-7	SSW	6	orr	52	97	6	450	Nb	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1008·8	-3	S'E	4	od6	49	97	5	1500	St	10	-	10
Scilly (St. Mary's)	163	1005·8	-4	W'N	5	or6	55	97	2	800	St	10	-	10
Falmouth (Pendennis)	200	1006·2	-4	W's	5	6or	55	97	2	220	St	10	-	10
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1004·7	-5	SW	6	orr	56	97	6	800	St	10	-	10
Southampton (Calshot)	10	1006·9	-6	SSW	5	orr	55	97	6	800	Nb	10	-	10
Dungeness	20	1007·4	-6	SSW	6	or6	51	97	6	1500	Nb	10	-	10
Guernsey (St. Peter Port)	178	1005·6	-5	SW	3	od6	56	97	5	1500	Nb	10	-	10

Observations at 7h. G.M.T. 8th

STATIONS.	Baromr. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	984.6	+10	W	4	bc/p	46	75	8	1500	CuNb	5	-	5
Stornoway	993.4	+9	WNW	6	c	44	66	7	4000	CuNb	8	-	8
Wick	0996	+12	WNW	4	bc	44	75	8	1500	CuNb	4	Fbn	6
Tiree	0983	+7	W	6	c/p	47	66	8	2500	Nb	7	Fst	7
Nairn	0996	*	WSW	4	bc	45	75	8	2500	CuNb	7	-	7
Aberdeen	0993	+11	WNW	4	b	45	76	8	4000	Stu	1	-	1
Malin Head	1001·4	+8	WNW	6	bc/p	47	85	8	2500	CuNb	3	-	3
Renfrew	0988	+7	W	3	bc/p6	46	85	8	4000	CuNb	7	-	7
Edinburgh (Inchkeith)	0996	+7	W	4	b	49	85	8	1500	St	1	-	1
Leuchars	0996	+10	W	3	b	43	85	8	4000	Stu	2	-	2
Eskdalemuir	0988	+11	NNW	1	b+	45	76	7	2500	Stu	2	-	2
Tynemouth	0968	+8	WNW	2	bc/r	52	85	7	4000	CuNb	3	-	3
Blacksod Point	1005·8	+5	W	4	c	47	66	8	*	Stu	8	-	8
Donaghadee	1001·1	+6	WSW	2	bc-	46	85	8	4000	Cu	4	-	4
Birr Castle	1004·0	+6	WNW	1	bc	46	85	8	4000	Stu	4	-	5
Holyhead	1003·1	+8	NW	6	bc-	52	75	8	2500	Stu	5	-	6
Liverpool (Bidston)	1001·0	+5	NWN	5	bc-	50	85	7	2500	Nb	5	-	10
Chester (Sealand)	1000·7	+5	WNW	4	od6	53	92	6	800	St	10	-	10
Harrogate	0998·1	+3	SW	3	b	53	92	8	4000	Nb	1	Fbn	2
Spurn Head	0997·1	0	W	4	c	53	97	7	4000	CuNb	8	Cist	10
Birmingham (Edgbaston)	1001·5	+2	WSW	3	c-	54	97	7	1500	Nb	8	-	8
Cranwell	0999·1	-1	SW'W	4	c/r	55	92	7	800	Nb	9	+	9
Gorleston	1000·6	-5	SSW	6	orr	52	97	6	1500	Nb	10	-	10
Valentia (Cahirciveen) P	1003·7	+5	WNW	4	bc+	50	66	8	2500	Stu	5	-	5
Roches Point	1008·3	+8	N	3	bc	50	85	8	2500	Stu	3	-	3
Pembroke (St. Ann's H.)	1004·2	+4	NW	3	bc-	55	85	7	4000	Cu	2	Fbn	4
Ross-on-Wye	1002·0	+2	WSW	3	bd6	55	97	8	2500	Stu	7	-	7
Leafield	1001·3	0	WSW	3	cdo	54	97	8	450	St	9	-	9
Winchester (Worthy Dal.)	1003·0	-1	WSW	3	0/r	55	97	7	800	St	10	-	10
S. Farnborough	1002·2	-2	SW'W	3	or-	56	97	8	450	Nb	10	-	10
London (Kew Obsy.)	1002·2	-1	SW's	3	odo	55	97	5	1500	Nb	10	-	10
Croydon	1002·8	-3	SW's	4	or6r6	55	97	5	450	Nb	10	-	10
Shoeburyness	1002·2	-5	SSW	3	crr	54	97	7	800	Nb	7	Fst	10
Clacton-on-Sea	1002·3	-4	ESE	5	oRR	51	92	6	2500	St	10	-	10
Felixstowe	1002·6	-4	S	5	orr	51	97	5	220	Nb	10	-	10
Lympne	1004·0	-3	S	5	od	53	97	2	450	Nb	10	-	10
Scilly (St. Mary's)	1006·9	+3	WNW	5	bc	53	97	7	4000	Stu	4	-	4
Falmouth (Pendennis)	1007·0	+2	NW	4	c	54	97	6	4000	Stu	10	-	10
Plymouth (Mt. Batten)	1006·4	+2	NW	4	or6	55	97	7	450	Nb	10	-	10
Portland Bill	1003·2	-2	WSW	3	c/r	56	97	8	1500	Stu	10	-	10
Southampton (Calshot)	1003·7	-2	WSW	3	o	55	97	6	450	Nb	10	-	10
Dungeness	1003·2	-6	SSW	6	or6r6	54	97	6	1500	Nb	10	-	10
Guernsey (St. Peter Port)	1006·8	-2	W	3	od6	57	97	4	1500	Nb	10	-	10

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-6th to 9h.-7th °F.	Temperature. Max. 9h.-17h. 7th °F.	Rainfall† Night 17h.-9h. 6th-7th mm.	Rainfall† Day 9h.-17h. 7th mm.	Sunshine. Sunrise to Sunset. 7th hrs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bcc	37	51	-	-	4.8
Douglas (I. o. M.)	co	cod	42	53	0·3	0.5	0·2
Llandudno	c	cr	46	54	-	0.2	0.9
Colwyn Bay	oc6c	bcco	43	55	-	-	1·0
Rhyl	c	c	38	55	4	-	0·2
Wallasey	m/bcc	co	42	52	0·3	-	0·2
Southport	o	opo	42	51	Trace	Trace	0.0
Blackpool	o	o	44	51	0·5	-	0.0
Morecambe	o	o	43	50	1	-	0.0
Ilkley	c6c	co	36	50	-	-	1·1
Cleethorpes	bo	oco	36	50	0.6	-	3.8
Mablethorpe	bm6	bcm6	35	50	Trace	-	4.9
Skegness	oc6	bc	34	49	1	-	4.6
Aberystwyth	oc	ocr	46	54	-	0.3	0.0
Bath	c	cd	36	52	-	0·3	0.0
Cheltenham	c	co	37	51	Trace	-	0.0
Leamington Spa	o	od	34	52	0·1	Trace	0.0
Lowestoft	b	bbcc	36	52	1	-	6·2
Harwich & Dovercourt	r6c	bc	38	52	1	-	5.6
Walton	bc	c	36	51	0·3	-	2·8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	dd	dd	47	55	1	2	0.0
Bude	oe6d	or rr	48	55	0.5	3	0.0
St. Ives	dd	dd	47	55	1	3	0.0
Penzance	odm	or	48	56	3	1	0.0
Paignton	owr6p	om6r6	44	55	-	0·5	0.0
Torquay	orm6p	or	45	55	-	1	0.0
Jersey	cdc	cd	45	54	1	2	0.0
Weymouth	cod6	id6	39	55	-	0·2	0.0
Bournemouth	o	om	40	64	-	-	0.0
Ventnor	ou	ou	43	63	-	-	0.0
Portsmouth (S'thsea)	o	o	41	54	-	-	0·1
Bognor Regis	c	c bc	38	53	-	-	0·1
Littlehampton	c	c	36	53	-	-	0·1
Worthing	c	cded	38	54	-	0·3	0·5
Brighton	bc	cdc	39	54	-	Trace	0.9
Eastbourne	co	oir6o	40	53	0·1	Trace	1·1
Hastings‖	mbcc	co	37	62	2	-	5·1
Folkestone	bcc	cor	39	62	4	Trace	6.4
Dover	mbcb6c	bccor	41	62	4	Trace	6·2
Deal	°b	bco	39	52	1	-	1·0
Tunbridge Wells	coc	o	34	51	0·3	-	6·1
Ramsgate	bc	bc	40	53	1	-	6·1
Margate	bc	bcc	42	53	1	-	2·4
Southend	cm	cmo	38	63	-	-	

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

* Information not usually received. P The observations at 1h. G.M.T., from an auxiliary station. ‡ For code see page 1. ‡ See footnote page 3.

† 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. 2[illegible]24 Saturday, 7th November, 1929.

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

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direct.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	992.1	+5	W	4	bc/sp	45	48	8	1500	CuNb	4	-	4	*
Stornoway	994.0	+3	WSW	3	bc	44	65	7	4000	CuNb	4	-	4	*
Wick	995.5	+5	WNW	3	bc	43	65	9	2500	CuNb	4	ACu	6	*
Tiree	1853.8	+4	W	4	bc/fH	40	95	6	2500	Nb	6	-	6	2
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1001.6	+6	WNW	5	bcr	44	65	8	2500	CuNb	7	-	7	1
Malin Head	1006.4	+4	W	4	bc/pS	44	97	9	2500	CuNb	5	ACu	6	*
Renfrew	1004.4	+4	W	4	bc	48	65	8	4000	Cu	3	-	3	2
Edinburgh (Inchkeith)	1001.8	+4	WSW	3	b	48	65	8	4000	Cu	1	ACu	2	*
Leuchars	1002.0	+5	WNW	3	b/pS	47	55	8	2500	CuNb	2	ACu	2	2
Eskdalemuir	1004.4	+3	W	4	b	45	65	8	2500	Cu	2	-	2	2
Tynemouth	1003.7	+3	W	2	bc	52	65	8	4000	Cu	2	ACu	3	*
Blacksod Point	1009.0	+3	W	3	bc	48	75	8	*	Cu	4	-	4	*
Donaghadee	1006.2	+3	NW	3	b	48	65	8	4000	Cu	2	-	2	*
Birr Castle	1005.5	+3	SW	2	bc	49	65	8						*
Holyhead	1008.1	+3	NW'W	5	b	50	65	8	2500	Cu	1	ACu	1	1
Liverpool (Bidston)	1006.8	+4	NW'W	5	bc+	50	65	8	1500	CuNb	5	-	5	*
Chester (Sealand)	1007.5	+5	NW'W	4	bc	50	65	7	1500	St	5	-	5	1
Harrogate	1009.8	+3	SW	3	bc/pS	50	65	8	4000	CuNb	6	ACu	7	*
Spurn Head	1008.6	+2	NW'N	5	bc-	52	75	7	4000	Cu	3	-	3	*
Birmingham (Edgbaston)	1007.0	+4	NNW	4	c	51	65	6	2500	Nb	8	-	8	2
Penwell	1005.3	+6	NW'W	4	b-	52	65	6	2500	Cu	2	-	2	1
Carlisle	1002.4	+2	NW	4	o	56	97	6	2500	Nb	10	-	10	*
Valentia (Cahirciveen)	1013.4	+1	NW	4	bc+	50	65	9	1500	Cu	3	-	3	2
Mooltan Point	1012.7	+3	N	3	bc	50	75	9	2500	CuNb	6	-	6	*
Pembroke (St. Ann's H.)	1009.8	+3	NW	3	bc	52	97	7	2500	Cu	3	CiCu	4	*
Ross-on-Wye	1007.4	+6	NW	4	bc	55	55	8	2500	Cu	3	CiCu	4	2
Leafield	1006.7	+5	NNW	4	bc	51	65	8	4000	StCu	6	-	6	2
Strokestown (Worthy Pk.)	1009.2	+4	NW	4	c	58	75	8	2500	StCu	8	-	8	2
S. Farnborough	1008.9	+4	NW'N	3	c	56	75	7	2500	StCu	9	-	9	2
London (Kew Obsy.)	1005.7	+4	NNW	4	c	55	65	6	2500	StCu	9	-	9	2
Croydon	1003.6	+3	N'W	5	c	56	75	6	1500	St	9	-	9	2
Rhoburyness	1004.5	+3	NNW	5	c/r	59	92	8	450	Cu	4	ASt	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1003.7	+2	WNW	3	c/d	57	92	6	1500	StCu	10	-	10	2
Scilly (St. Mary's)	1004.4	+2	WNW	3	c	57	97	5	800	St	8	ASt	10	2
Falmouth (Pendennis)	1012.3	+3	N'W	5	c	53	75	8	4000	StCu	8	-	8	*
Plymouth (Mt. Batten)	1011.1	+3	NNW	4	bc+	54	65	8	4000	Cu	5	Ci	6	*
Portland Hill	1009.6	+4	NNW	4	c	55	65	8	2500	Cu	9	-	9	2
Southampton (Calshot)	1006.6	+5	WNW	4	bc-	57	75	8	1500	CuNb	4	ACu	5	*
Dungeness	1006.3	+2	WNW	4	bc-	60	75	7	2500	StCu	4	ACu	7	2
Guernsey (St. Peter Port)	1004.2	+4	NNW	1	cd	57	97	7	1500	Nb	10	-	10	*
	1010.0	+2	WNW	3	bc-	58	85	6	4000	StCu	2	ACu	4	*

Observations at 18h. G.M.T., 8th.....

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direct.	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	994.9	+3	W'S	4	bc/sp	43	75	8	1500	CuNb	5	-	5	*
Stornoway	997.7	-1	SW	4	bc/PR	41	75	7	4000	CuNb	6	ACu	7	2
Wick	999.8	+2	W	2	bc	37	75	8	1500	CuNb	2	CiSt	4	1
Tiree	1003.2	-1	W'S	6	b	44	85	9	4000	CuNb	2	-	2	6
Nairn	1001.2	*	WNW	2	bc-	39	75	8	4000	Cu	3	-	3	*
Aberdeen	1003.5	+3	WSW	2	b	39	65	7	-	-	0	-	0	0
Malin Head	1006.6	0	SW	4	bc/sp	43	97	7	2500	CuNb	5	-	5	5
Renfrew	1006.8	+1	W	2	b-	38	85	7	2500	StCu	1	-	1	*
Edinburgh (Inchkeith)	1005.0	+3	WSW	4	bc	41	92	8	1500	St	2	ACu	3	1
Leuchars	1004.5	+3	SW	4	b-	38	85	8	-	-	0	-	0	*
Eskdalemuir	1007.4	+3	N	4	b-	37	85	8	-	-	0	-	0	*
Tynemouth	1007.0	+3	W	2	b-	43	86	7	1500	St	2	-	2	2
Blacksod Point	1008.2	-1	W	4	bc	48	65	8	*	Cu	6	-	6	7
Donaghadee	1008.5	+3	WSW	2	b	40	92	8	-	-	0	-	0	1
Birr Castle	1010.1	-1	SW	1	bc	41	85	8	4000	StCu	3	-	3	*
Holyhead	1010.5	+2	W'N	4	bc	49	75	8	2500	Cu	4	-	4	4
Liverpool (Bidston)	1009.6	+3	WNW	5	bc/r	47	65	8	2500	Nb	7	-	7	*
Chester (Sealand)	1010.2	+3	W'S	3	b-	46	65	6	2500	Cu	1	-	1	*
Harrogate	1009.0	+4	SW	1	b	40	92	7	-	-	0	-	0	*
Spurn Head	1007.7	+2	NW	3	bc	47	92	7	4000	Cu	2	ACu	4	3
Birmingham (Edgbaston)	1011.3	+4	NW	3	b-	44	75	7	-	-	0	-	0	*
Penwell	1009.4	+5	W'N	3	b-	44	75	5	4000	StCu	1	CiCu	2	*
Carlisle	1007.0	+4	WNW	2	bc+	49	85	6	-	-	0	ACu	5	1
Valentia (Cahirciveen)	1014.0	0	WSW	3	b	48	65	8	2500	Cu	2	-	2	4
Mooltan Point	1014.5	+3	N	2	b	47	85	8	2500	CuNb	1	-	1	0
Pembroke (St. Ann's H.)	1012.1	+3	NW	3	bc	50	97	8	2500	Cu	3	ACu	4	2
Ross-on-Wye	1011.7	+4	W'N	3	b-	45	65	8	-	-	0	Ci	1	*
Leafield	1010.3	+4	NNW	3	c	46	75	8	4000	StCu	8	-	8	*
Strokestown (Worthy Pk.)	10108	+6	NW'W	3	c	48	85	8	4000	StCu	8	-	8	*
S. Farnborough	1010.4	+6	NW'N	1	c+	47	75	6	5700	St	8	-	8	*
London (Kew Obsy.)	1010.4	+6	NW	1	bc	50	65	6	-	-	0	ASt	5	*
Croydon	1010.1	+6	NNW	3	c+	50	65	5	1500	StCu	7	ASt	9	*
Rhoburyness	1009.0	+4	NNW	1	bc-	50	85	8	4000	StCu	6	-	6	*
Clacton-on-Sea	1008.2	+4	NW	3	bc	50	85	7	2500	Cu	6	ASt	7	2
Felixstowe	1009.7	+6	NW'W	3	bc	50	75	7	4000	StCu	7	-	7	1
Lympne	1009.5	+5	NNW	4	c	50	85	5	4000	StCu	5	ACu	9	*
Scilly (St. Mary's)	1014.9	+2	NNW	4	bc	50	85	8	4000	Cu	3	CiSt	5	4
Falmouth (Pendennis)	1014.4	+3	NW'N	2	bc-	49	75	8	4000	Cu	4	Ci	6	0
Plymouth (Mt. Batten)	1013.3	+4	N	3	b-	50	65	6	4000	StCu	1	Ci	1	0
Portland Hill	1010.8	+8	NW	4	c+	51	65	8	2500	StCu	7	ASt	8	4
Southampton (Calshot)	1011.5	+7	NW	4	c	52	65	7	4000	StCu	8	-	8	0
Dungeness	1008.8	+7	NNW	1	c-	50	92	7	2500	StCu	4	ACu	8	2
Guernsey (St. Peter Port)	1013.4	+5	NW	3	c+	53	85	8	4000	StCu	10	-	10	3

London Observations.

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

	Hours of Sunshine.	Weather. Morning	Weather. Afternoon	Weather. Night	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm. Day.	Rainfall. mm. Night.	Sunshine to Sunset, hrs.	Humidity. 18h. G.M.T. %	Humidity. 9h. G.M.T. %	Sea.
		24 HOURS ENDED 9h.								YESTERDAY.	TO-DAY.		
Kew	18	cm qc	cbc	bm,x	60	36	25	2.3	Tr.	0.3	*	*	5
Croydon	244	cR,qc	cz.	bcbm x	60	36	30	2	-	0.0	*	*	5
Greenwich (Royal Obsy.)	148	c	c	cbzbx	60	34	27	-	Tr.	0.0	70	74	5
City (Bunhill Row)	89	*	*	*	*	*	35	-	*	0.1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	60	36	31	-	-	0.2	76	93	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*		*	*	*
Camden Square	110	oc	cbc	*	57	38	*	-	-	*	*	88	*
Kensington Palace	80	c0	bc	*	59	37	28	-	-	*	(At 18h.) 69	87	*
Hampstead Observatory	460	*	*	*	57	33	26	Tr.	Tr.	0.2	*	83	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. [illegible]

South Kensington

Max.	Time.	Min.	Time.
0.8	8th 9h	0.3	2-6h. 9th

Kew Observatory

Max.	Time.	Min.	Time.
0.4	8th 20h	0.1	9th 5h.

Pole Star Record at Greenwich Obsy.

Exposure from [illegible] 17h 15m. to [illegible] 18h 15m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	12.32	96
δ Ursae Minoris	13.0	12.02	93

Code for State of Ground.

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

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

For 7th NOVEMBER, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.5	1.37	16.8
Greenwich	7.7	11.37	16.6
Wick	7.9	11.44	16.18
Valentia	7.10	11.44	16.17
	7.48	11.56	16.3
	7.51	11.56	16.1
	7.51	12.25	16.58
	7.53	12.25	16.56

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 969—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
ip precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_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:—hail = fair weather after rain; − = has decreased; + = has increased.

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.

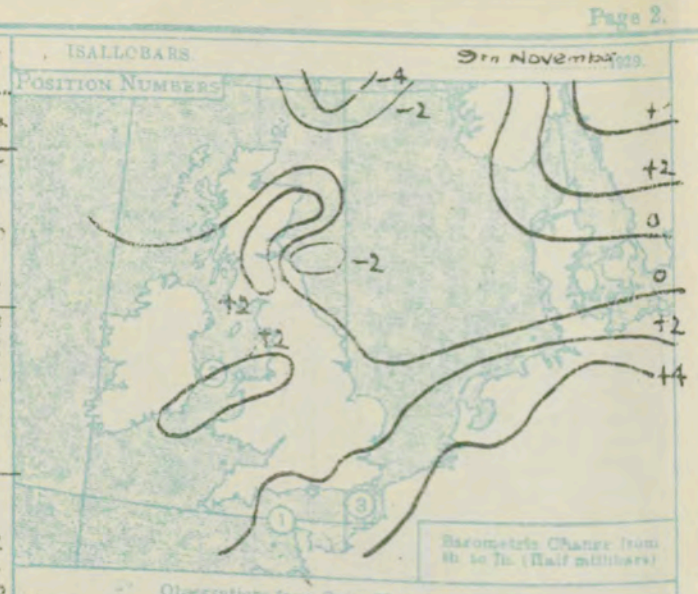
¼ Telegraphic Code for Surface Visibility.

	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. Sta.	18h.-18h. Sta.	18h. Sta. to 1h. Sta.	1h.-7h. Sta.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN Sta. Hours.
Lerwick	bcphr.qy	bcphr.q	bccoir	corrh.	47	37	.	1	<8·00	8	<21.00	3.4
Stornoway	p	p	cPRc	cPRc	46	37	.	3	<8·00	5	<21.00	4.5
Wick	b,bc	b,bc	b-bc	r.r bc	45	36	.	-	-	1	3.30	.
Tiree	PHqr	bcphr	pr er	cpR	52	39	34	1	11·00	5	<21.00	0.0
Nairn	bc.pr	bc	bcxq	qpbc	45	36	.	0·1	11·00	0·3	4.30	2.8
Aberdeen	bbcpr	bcb	bw	bwp.rb	48	35	28	Tr	12.30	Tr.	-	5.7
Malin Head	bcpr.	bcpr.	ber.aqr	belPhr	47	41	.	2	<8·00	7	<21.00	4.3
Renfrew	bcbcbcb	bcbcpqbc	bberbc	cRcpqr	48	37	30	0·5	14.30	5	<21.00	3.8
Edinburgh(Inchkeith)	b,bc	bbc	bcb	bbcpr	49	40	37	-	-	1	4.30	7.2
Lenchars	bbc,pr.	byb	bw	b,cpb	50	35	30	0·1	12.30	0.6	2.30	7.2
Eskdalemuir	bcpr.b	bcprb	b	borrcprc	47	33	27	1·0	5.00	7	1.30	4.6
Tynemouth	bc	bc	b	bbc	52	38	31	-	-	-	-	.
Blackrod Point ...	dbc	pbc	tlpqc	phqbc	49	42	.	1	.	6	.	.
Donaghadee	bcb	b	bbc	ir.bc	49	39	.	-	.	2	4.30	.
Birr Castle	bc	bcr.cb	cxor	cirtl	50	38	26	Tr	<8·00	3	<21.00	6.2
Holyhead	bbc	bbcpr.	bcbbc	r.c	62	45	41	Tr	16.30	0.1	24.00	6.3
Liverpool (Bidston) ...	bcb	bcpRQ	r.c	cr.bc	50	39	36	Tr	17.30	0.4	<21.00	5.5
Chester (Sealand) ...	d.cbc	pr.bc	bm.	bcRRpr	53	36	29	Tr	<8·00	1	2.30	2.4
Harrogate	bbcp.	bcb	b	bcbp	53	35	27	Tr	12.30	0·2	5.30	6.4
Spurn Head	cbc	bc	bc	bc	54	39	.	-	-	-	-	6.1
Birmingham(Edgbaston)	cr.c	bc	b	b	55	35	32	0·2	9.00	-	-	2.4
Cranwell	bcz.	bcz.	bm.w	bw	55	36	32	-	-	Tr.	-	4.7
Carleston	orrcq	ocbcb	bcb	bx	58	35	32	5	<8·00	-	-	0.0
Valentia(Cahirciveen)	bccp.	bcp.bcb	cPRq	cPRq	51	45	38	0·3	1100	4	<21.00	5.0
Roches Point	bcpbcu	bcp.b	bbc p.bc	bcp.bc	53	42	.	0·1	1230	0·1	22.00	.
Pembroke(St.Ann's H.)	bc	bc	bbc	bcq	54	47	.	-	-	-	-	5.4
Ross-on-Wye	bc	bcy	bw	bw	58	37	30	-	-	-	-	6.7
Leafield	cbc	bcc	b	bx	57	34	27	0·1	-	-	-	2.9
Winchester (Worthy Dn.)	oc	c	cbcb	bxm.	61	29	20	-	-	-	-	1.5
S. Farnborough ...	r.ccu	cbcm.	cbw	bx	60	33	21	0·1	<8·00	-	-	1.4
London (Kew Obsy.) ...	om.qc	cbc	bm.	bm.x	60	36	25	0·3	<8·00	Tr.	-	0.3
Croydon	em.Rd.c	cy.	cz.bcbm.	bm.x	60	36	30	2	1100	-	-	0.0
Shoeburyness	crrc	cbc	bcb	bx	60	36	29	0·1	<8·00	-	-	0.3
Clacton-on-Sea ...	orc	cbc	bcb	bbc	59	37	32	4	<8·00	-	-	0.2
Felixstowe	or.mrd.m.	cz.cbc	bcb	bwm.	53	38	34	3	<8·00	-	-	0.2
Lympne	orr.d.fom.	ecpr.cm.	cbc	bm.x	57	34	24	8	<8·00	-	-	0.1
Scilly (St. Mary's) ...	bcc	cbc	bcb	bbc	54	47	.	-	-	-	-	2.6
Falmouth (Pendennis)	cbc	cbcc	bc	bcc	55	46	.	-	-	-	-	3.8
Plymouth(Mt.Batten)	or.bc	cbz.	b	bbcw	57	36	34	Tr	<8·00	Tr.	-	3.9
Portland Bill	cbc	bcc	bbc	bc	59	46	.	-	-	-	-	.
Southampton(Calshot)	cbc	bcc	bw	bw	61	36	30	-	-	Tr.	-	3.0
Dungeness	cRrcd.	cd.c	bcbz.	bz.x	60	35	.	5	<8·00	-	-	.
Guernsey	odcbc	bcco	c	cbc	58	45	36	0·4	9.00	-	-	3.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.	Visibility.
3	8th 10h	Cambria	NW'W.	5	bc	50	54	7

GENERAL DIFFERENCE.

A deep depression centred near Iceland and a secondary off Western Ireland are moving eastward. Weather will be fair in England at first but unsettled conditions are likely to spread slowly from the West to become general later over the British Isles.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 9th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate to fresh southwesterly winds; bright periods today with frost tonight; cloudy and some rain tomorrow; moderate or rather low temperature.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Fresh to strong westerly to southwesterly winds, veering later; cloudy, some rain; moderate temperature.	↓ South Cone hoisted at 09h.08m.G.M.T. today in districts 13A, 13B, 15, 16, 17, 18 and 20.
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13 A. W. Scotland ↓ 13 B. N.W. Scotland ↓ 14. Mid-Scotland	Strong southwesterly winds, stronger at times, veering later; cloudy, showers at first, some rain later; snow on hills; rather low temperature.	
15. N.E. Scotland ↓ 16. Orkneys and Shetlands ↓	Fresh to strong southwesterly winds, stronger at times later; cloudy, showers at first, some rain later; rather low temperature.	
17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland 20. S.W. Ireland ↓	Fresh to strong southwesterly winds, stronger at times, veering later; cloudy, some rain at first; showers later; moderate temperature.	

W.H.P.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 Forecasts issued at 0915 G.M.T. C.C. Saxton, C.B., D.Sc., F.R.S., Ed.

† For code see page 1

* Rain was taken, but amount less than 0·1 mm.

SYNOPTIC CHART FOR 7h. SATURDAY, 9TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

Bar. LOW

968 966 964

(2) 24 Fine to Changes

(0) 28 Fine

(28) 43 Fine

Barometric (10) 41 Fine

L.

(21) 32 Hail Showers.

Changes

Slight.

Barometer

(15) 36 Cloudy.

(42) 41 Hail

(0) 23. Fine

Falling

(10) 38 Rain

(15) 43 Fine

Slight.

(40) 39 Cloudy. (10) 37 Fine

Slowly.

Barometric

(10) 40. Fine

DORIC

(35) 45 50 Sea. Fine

(21) 42 Cloudy.

(15) 42 Thunderstorm

(5) 43 Fine

(10) 50 Fine

(15) 44 Fine

Changes

(2) 43 Rain

(28) 48 Cloudy.

(21) 40. Fine

(15) 46. Fine

(10) 39 Fine

(5) 37. Fine

Barometer

SCYTHIA

(15) 48 56 Sea. Rain

ADRIATIC

(15) 47 Cloudy

(35) 50 54 Sea. Showers.

(15) 52 Fine

(5) 37. Fine

(5) 41 Cloudy.

(10) 46 Cloudy.

(15) 51 Fine

(21) 51 Fine

(2) 48. Fine

Slight.

(5) 48 Cloudy.

(5) 41 Fine

H.M. Ship

(10) 55 55 Sea. Fine

(5) 48 Cloudy.

(5) 46 Fog

46 (5) Rain

(2) 46 Rain

HIGH 1018

(5) 50 Cloudy.

(0) 48. Rain

(2) 52 Oblast.

Rising.

1016

HIGH

LOW

(15) 57 Rain

(10) 54 Rain

(0) 50 Cloudy.

Lower Cloud

TEMPERATURE, WEATHER, SEA.

EXPLANATION.

BAROMETER. – Isobars are drawn at 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. T. thunderstorm.

SEA DISTURBANCE. – Smooth. Rough. Very Rough.

ISOBARS. barometric change from 1 to 7 m. in all millibars is entered beneath the ward for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Saturday 2nd November 1929. No. 312.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 2nd													Observations at 7h. G.M.T. 2nd												Sun.
		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	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	0-1
Lerwick	34	994.8	0	SW	2	c,jp	41	85	7	1800	CuNb	4	ASt	8	990.1	-5	SW	3	orr	38	92	7	1500	Nb	10	-	0	*
Stornoway	30	996.5	-4	W	5	bc	*	*	7	*	*	*	*	7	993.6	-1	WNW	3	c	38	86	7	4000	CuNb	8	-	8	2
Wick	81	997.0	-2	SW	0	bc	40	85	8	2500	StCu	3	*	3	993.7	-1	SW	3	bc	37	89	8	1500	Nb	4	CuSc	6	1
Tiree	25	*	*	*	*	*	*	*	*	*	*	*	*	998.3	~~997.8~~	-1	W	5	b,jp	42	75	8	4000	CuNb	4	CuCu	5	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	995.3	*	WNW	3	bc+	38	85	8	2500	Cu	6	-	6	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	997.3	+2	SW	3	b	40	65	8	-	-	0	11Cu	1	0
Malin Head	51	1002.2	-4	W'N	5	bc,jp	45	85	7	2500	CuNb	4	-	4	1002.9	+1	WSW	4	b,TRW	42	87	7	2500	CuNb	6	-	6	*
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.5	+2	WSW	5	c,jp	42	85	8	1500	CuNb	8	-	8	2
Edinburgh (Inchkeith)	100	1002.3	-4	WSW	5	b	42	85	8	2500	St	1	ACu	2	999.9	-2	WSW	5	bc	41	92	8	2500	StCu	3	-	3	*
Leuchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.4	+2	WSW	3	b	38	92	8	2500	StCu	2	ACu	2	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.9	+3	SW	5	c	35	85	8	1500	StCu	3	+	0	*
Tynemouth	67	1007.3	-1	WSW	2	b	38	85	7	-	-	0	-	0	1006.1	-1	WSW	2	bc	43	85	7	2500	Cu	4	-	4	*
Blacksod Point	18	1006.4	-1	W	6	c	45	75	6	*	CuNb	10	*	10	1006.4	0	W	4	bc	44	75	8	*	CuNb	4	-	4	*
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.3	0	WSW	3	b-	40	85	8	4000	Cu	2	-	2	*
Birr Castle	278	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.3	0	W	1	cr	43	92	7	2500	CuNb	8	-	8	2
Holyhead	26	1010.5	-1	SW	6	cr.	48	65	7	1500	Nb	2	CuSc	10	1010.5	+2	WSW	6	c	48	75	8	1500	St	6	CuSc	8	4
Liverpool (Bidston)	169	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.2	+2	W	5	bc	47	65	6	1500	Nb	3	ACu	7	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.0	+2	SW	2	bc-	44	75	7	2500	St	6	+	6	*
Harrogate	476	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.8	+1	SW	4	b	42	75	7	2500	CuNb	1	-	1	*
Spurn Head	30	1010.1	0	W	3	bc	41	9	b	1500	St	3	-	3	1009.2	0	W'S	5	b	40	92	8	-	-	0	HSt	2	*
Birmingham (Edgbaston)	555	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.5	+1	SW	5	b	39	89	8	-	-	0	-	0	*
Cranwell	296	1012.3	+1	WSW	3	c	37	65	8	-	-	0	-	0	1012.2	0	SW	4	b	39	93	7	-	-	0	AC	1	0
Gorleston	14	1012.2	+3	W	2	c	39	87	6	-	-	0	-	0	1013.7	+2	W'S	2	b	37	85	7	-	-	0	-	0	0
Valentia (Cahirciveen)	30	1012.4	0	W	6	bc	50	87	8	*	St	3	-	3	1013.0	0	SW	4	c	47	75	8	2500	StCu	7	ASt	8	1
Roches Point	27	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.2	+2	W	3	bc	46	83	8	2500	CuNb	5	Ci Cu	6	*
Pembroke (St. Anne's H.)	100	1013.9	0	WSW	4	bc	50	87	8	4000	Cu	3	ACu	6	1013.6	+1	WSW	4	bc	42	92	8	4000	Cu	2	ACu	4	*
Ross-on-Wye	295	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.3	0	SW	2	b	40	92	-	-	-	0	-	0	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.9	0	SW	3	b	35	87	6	4000	StCu	1	-	1	*
Winchester (Worthy Down)	372	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.3	+1	SSE	1	b	31	87	6	*	-	0	-	0	*
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.4	+2	SW	1	b	33	88	8	-	-	0	-	0	*
London (Kew Obsy.)	18	*	*	*	*	*	39	*	*	*	*	*	*	*	1015.9	+1	SW'S	2	b	37	87	6	-	-	0	-	0	*
Croydon	244	1014.4	+3	SW'N	2	c-	37	92	6	-	-	0	-	0	1016.9	+2	SSW	3	b	37	92	6	-	-	0	-	0	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.6	+1	SW	2	b	39	92	7	-	-	0	-	0	0
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.0	+2	WSW	3	bc	38	87	6	2500	-	0	-	0	3
Felixstowe	15	*	*	*	3	*	*	*	*	*	*	*	*	*	1015.4	+3	WSW	3	b	39	87	5	-	-	0	-	0	1
Lympne	350	1014.3	+5	NW	1	b	41	92	8	-	-	0	-	0	1016.4	+3	W'N	3	b	35	87	6	-	-	0	-	0	*
Scilly (St. Mary's)	163	1017.7	+2	NNW	6	b	48	75	8	4000	Cu	1	-	1	1017.6	0	W'N	5	bc,jp	51	35	8	4000	Cu	6	-	6	0
Falmouth (Pendennis)	208	1017.4	+2	W'N	3	bc	47	75	8	4000	Cu	3	CuSc	5	1017.7	0	W	3	c+	46	85	8	4000	StCu	8	-	8	0
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.7	+2	-	0	b	39	92	7	2500	Cu	1	-	1	0
Portland Bill	92	1015.2	+3	NW	3	bc+	49	75	8	2500	StCu	5	-	5	1016.2	+2	WSW	4	bc	61	65	8	2500	StCu	3	-	3	0
Southampton (Oakshot)	10	1015.4	+3	NNW	3	b	40	92	7	-	-	0	-	0	1017.0	+2	SW'N	3	b	39	85	7	-	-	0	-	0	0
Dungeness	20	1013.4	+4	NNW	2	b	40	97	6	-	-	0	-	0	1016.4	+3	NNW	1	b	38	85	6	-	-	0	-	0	2
Guernsey (St. Peter Port)	173	1017.8	+3	NW	1	bc-	48	85	8	4000	StCu	6	-	6	1015.8	+3	WNW	1	bc-	48	75	8	2500	StCu	4	-	4	2

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 24h. NOVEMBER 1ST.

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-7h. to 9h. °F.	Temperature. Max. 9h.-17h. °F.	Rainfall.† Night 17h.-9h. mm.	Rainfall.† Day 9h.-17h. mm.	Sunshine. Sunrise to Sunset. hrs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	b	bbc	42	51	2	-	6.6
Douglas (I. o. M.)	b	b	47	49	10	-	6.9
Llandudno	cbcd	bc	49	53	10	Trace	4.5
Colwyn Bay	cbbc	cb	43	53	10	-	3.2
Rhyl	bc	bc	47	53	11	-	3.3
Wallasey	cbcb	bbc	42	52	13	-	5.5
Southport	obc	bcb	* 49	51	17	-	5.2
Blackpool	rcbc	bc	46	52	15	-	5.9
Morecambe	cbc	bcbbc	44	50	-	-	3.6
Ilkley	b	b	42	53	10	-	5.3
Cleethorpes	b	bcm	44	56	614	-	4.9
Mablethorpe	bcmbc	bbccv	42	58	6	-	4.4
Skegness	rocb	bc	39	57	7	-	4.1
Aberystwyth	rqbc	bc	51	52	11	-	5.5
Bath	cbc	bccb	42	58	7	-	3.8
Cheltenham	bcc	cbc	49	57	6	-	2.0
Leamington Spa	oroc	bcb	44	56	7	0.2	2.4
Lowestoft	orr	odcbc	45	58	11	0.2	0.1
Harwich & Dovercourt	roc	rococ	47	57	15	1	0.0
Maldon	roc	cbcc	49	60	13	-	0.6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	cpd	oc	47	56	16	0.2	1.2
Bude	cbc	oc	48	56	14	Trace	2.5
St. Ives	c	c	50	58	8	-	3.1
Penzance	bc	cbc	52	55	12	-	3.7
Paignton	bc	bc	55	59	5	-	5.0
Torquay	orpbc	bc	50	59	6	-	3.0
Jersey	dcb	cbc	48	58	12	Trace	1.7
Weymouth	bcb	b	51	61	19	-	6.2
Bournemouth	obc	bc	49	59	11	-	3.5
Ventnor	rcu	bcc	50	60	14	-	3.8
Portsmouth (S'thsea)	c	cbc	45	61	8	-	2.0
Bognor Regis	rcbc	bc	44	61	10	0.3	1.7
Littlehampton	cbc	bc	41	63	10	-	2.7
Worthing	oc	bcc	45	63	10	-	2.9
Brighton	cbc	c	45	62	11	-	2.2
Eastbourne	or,oc	cbcc	51	61	12	0.1	2.0
Hastings	ofdoc	cbcc	50	60	8	0.5	1.2
Folkestone	orrmc	c	45	60	15	2	0.1
Dover	ord	obc	49	60	14	1	0.1
Deal	ro	o	43	59	13	1	0.0
Tunbridge Wells	odo	o	41	59	8	-	0.0
Ramsgate	ro	oc	46	58	11	2	0.0
Margate	crc	c	46	56	12	0.6	0.0
Southend	oded	cm	41	59	9	0.1	0.1

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24825 Sunday 10th November 1929.

Observations at 13h. 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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	9826	-1	SW	4	c/p	43	73	7	1500	CuNb	6	Ast	9	•
Stornoway	9825	-1	W	6	c/PR	42	75	7	4000	CuNb	10	-	10	•
Wick	9833	0	WSW	6	bc	39	76	8	1500	CuNb	6	-	6	•
Tiree	9837	0	WS	7	bc/p	44	75	8	4000	CuNb	3	-	3	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Aberdeen	9836	0	SW	4	b	44	65	8	2500	Cu	1	Acu	1	1
Malin Head	1003.1	-1	W	6	c/r	44	97	7	2500	CuNb	8	-	8	•
Renfrew	1003.7	0	WSW	5	c/PR	42	76	8	2500	CuNb	8	-	8	2
Edinburgh (Inchkeith)	~~1005.1~~ 1001.7	-1	WSW	6	~~c/PR~~ c/r	45	75	7	800	Nb	10	-	10	•
Leuchars	1001.4	0	SW	5	bc/pg	41	86	8	2500	CuNb	3	Ci	4	2
Eskdalemuir	1004.7	-1	WSW	7	bc/p	44	65	8	2500	CuNb	6	-	6	2
Tynemouth	1006.2	+1	W	3	bc/pg	49	65	7	2500	Cu	5	-	5	•
Blacksod Point ...	1004.7	0	W	4	bc	47	85	8	*	CuNb	6	-	6	•
Donaghadee	1005.1	0	W	5	bc+	46	75	8	4000	Stu	3	Cist	5	•
Rye Castle	1008.7	-1	SW	2	0	48	75	7	4000	Nb	10	-	10	•
[illegible]head	1010.1	-2	SWW	6	c+	49	75	8	2500	Stu	8	Ci	8	1
Liverpool (Bidston) ...	1010.6	0	WS	4	c/PR	45	95	8	4000	Nb	9	-	9	•
Chester (Sealand) ...	1011.2	0	NE	1	c	48	75	7	4000	Cu	8	-	8	1
Harrogate	1009.9	-1	SW	5	c	46	76	7	2500	Nb	4	Ast	9	•
Spurn Head	1010.8	0	WS	4	c	48	85	7	4000	Stu	6	Acu	8	•
Birmingham (Edgbaston)	1013.3	+1	WSW	4	bc/c	51	65	7	2500	Nb	7	-	7	2
Cranwell	1012.6	-1	SWW	5	c+	48	75	7	4000	Stu	6	Ci	8	1
Gorleston	1014.1	0	SW	3	b	60	86	6	5700	Cu	2	-	2	•
Valentia (Cahirciveen)	1009.7	-5	S	5	cr$_o$	49	92	8	1500	St	10	-	10	2
Roches Point	1013.0	-3	W	3	cr$_o$	50	92	7	1500	Nb	9	-	9	•
Pembroke (St. Ann's H.)	1013.0	+3	SWW	4	c/p	53	92	8	2500	Stu	8	-	8	•
Ross-on-Wye	1014.1	0	WSW	4	bc-	53	65	8	4000	Cu	6	Cist	7	2
Leafield	1014.4	0	SWS	4	b	50	75	8	2500	Cu	1	Acu	1	1
Winchester (Worthy Dn.)	1016.7	-1	SWW	4	bc+	54	65	8	4000	Cu	3	-	3	1
S. Farnborough ...	1016.7	-1	SW	4	b	54	65	8	2500	Cu	1	-	1	1
London (Kew Obsy.) ...	1016.5	-1	SWW	3	b	51	65	7	4000	Cu	1	Acu	2	1
Croydon	1016.7	-1	WS	4	bc	54	65	7	2500	Cu	1	Acu	3	1
Shoeburyness	1017.0	+1	SW	3	b	52	75	7	-	-	0	Ast	1	•
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	1015.7	-1	SW	3	b	52	65	6	-	-	0	Cist	1	1
Lympne	1017.5	0	SWS	3	bc	51	65	8	2500	Cu	1	Ci	3	2
Scilly (St. Mary's) ...	1018.1	+1	WS	4	bc	55	75	7	4000	Cu	5	-	5	•
Falmouth (Pendennis)	1018.4	0	WSW	5	bc+	56	85	8	4000	CuNb	7	-	7	•
Plymouth (Mt. Batten)	1017.7	-2	WSW	4	bc	55	85	8	4000	Cu	3	-	3	2
Portland Bill	1016.8	0	WSW	5	bc	~~54~~ 55	85	8	2500	Cu	3	-	3	•
Southampton (Calshot)	1017.8	-1	WSW	4	bc	56	85	8	4000	Stu	3	-	3	0
Dungeness	1017.7	+2	WSW	3	bc+	53	85	8	2500	Cu	3	Cu	4	•
Guernsey (St. Peter Port)	1020.8	-2	SW	2	bc-	56	85	7	-	-	0	Acu	4	•

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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	9834	-1	SW	4	c/hail	42	75	7	1500	CuNb	5	Ast	10	•
Stornoway	9828	+1	WSW	6	bc	40	65	8	4000	CuNb	4	Ast	5	5
Wick	9843	0	SW	5	bc	37	92	8	1500	CuNb	3	-	3	3
Tiree	9838.4	-1	WS	5	bc-	44	75	8	2500	CuNb	4	Cist	5	6
Nairn	9837.7	*	W	3	c/r	36	92	8	1500	CuNb	9	-	9	•
Aberdeen	9832.6	+1	SW	3	b	38	75	8	-	-	0	Acu	1	0
Malin Head	1001.4	-3	S	3	c r	42	97	7	2500	Nb	6	Ast	9	5
Renfrew	1003.0	-1	SW	3	c/r	43	85	7	2500	CuNb	8	-	8	•
Edinburgh (Inchkeith)	1001.7	0	WSW	4	bc r$_o$	41	92	8	800	St	7	-	7	2
Leuchars	1001.7	+1	SW	4	c+	39	85	8	2500	CuNb	3	Ast	9	•
Eskdalemuir	1004.7	-1	SWS	3	cr$_o$	40	85	7	1500	Nb	7	Ast	10	•
Tynemouth	1004.8	-1	WSW	2	bc	45	75	7	2500	Cu	6	-	6	1
Blacksod Point ...	1001.5	-1	W	3	orr	44	85	7	*	Nb	10	-	10	5
Donaghadee	1003.7	-2	SW	3	dr$_o$	42	85	7	1500	St	10	-	10	3
Rye Castle	1002.8	-6	S	1	orr	44	97	7	2500	Nb	10	-	10	•
[illegible]head	1006.8	-5	SW	5	c/pg	50	85	7	2500	Cu	7	Acu	9	4
Liverpool (Bidston) ...	1008.5	-2	SWW	4	ORR	46	92	8	2500	Nb	10	-	10	•
Chester (Sealand) ...	1005.4	-2	SWS	5	dr-	47	85	6	2500	Nb	10	-	10	•
Harrogate	1008.3	-2	SW	2	c	44	85	5	2500	St	8	-	8	•
Spurn Head	1010.0	0	WSW	4	bc+	45	92	7	-	-	0	Ast	4	2
Birmingham (Edgbaston)	1012.3	-2	SSW	4	bc-	48	75	7	2500	Nb	3	-	3	•
Cranwell	1011.8	-2	SSW	3	b	43	85	6	4000	Stu	1	-	1	•
Gorleston	1015.4	0	SSW	2	b	46	85	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1009.5	-9	SW	6	crr	52	85	7	1500	Nb	8	Ast	10	6
Roches Point	1008.4	-8	W	5	c	53	92	6	1500	CuNb	9	-	9	6
Pembroke (St. Ann's H.)	1010.3	-3	SW	5	c+	53	87	8	1500	CuNb	6	Ast	9	5
Ross-on-Wye	1012.8	-2	SW	4	b	48	66	7	4000	Stu	1	Cist	2	•
Leafield	1014.1	-1	S	3	b	43	85	7	-	-	0	Cist	2	•
Winchester (Worthy Dn.)	1015.8	-1	SSW	2	b+	45	86	8	4000	Stu	2	-	2	•
S. Farnborough ...	1015.8	-1	SW	3	b	45	85	7	-	-	0	-	0	•
London (Kew Obsy.) ...	1015.9	0	SSW	3	b	46	85	7	-	-	0	-	0	•
Croydon	1016.4	0	SSW	3	b	46	85	6	-	-	0	-	0	•
Shoeburyness	1016.7	0	SWS	2	b	46	92	8	-	-	0	-	0	•
Clacton-on-Sea ...	1016.0	0	SSW	3	bc	45	85	7	2500	St	3	-	3	2
Felixstowe	1016.0	0	SSW	4	b	48	85	6	-	-	0	-	0	1
Lympne	1017.8	+1	SSW	3	b-	48	75	7	2500	Stu	1	-	1	•
Scilly (St. Mary's) ...	1014.6	-4	WSW	5	c	52	85	8	4000	Stu	5	Acu	9	4
Falmouth (Pendennis)	1015.5	-3	SW'W	5	bc+	52	75	7	4000	CuNb	7	-	7	1
Plymouth (Mt. Batten)	1015.5	-2	SW	5	c+	53	75	7	2500	CuNb	8	Cist	9	4
Portland Bill	1016.6	-2	SW	5	c+	54	75	8	1500	Stu	9	-	9	4
Southampton (Calshot)	1017.1	-1	SW	4	bc+	52	75	8	2500	CuNb	5	-	5	0
Dungeness	1017.4	0	WSW	4	bc	52	85	8	2500	Stu	5	-	5	3
Guernsey (St. Peter Port)	1019.8	0	SW	2	c	53	76	8	2500	Stu	8	-	8	2

London Observations

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

	Height above M.S.L. in feet.	Weather. Morning. (6 hours ended 7h.)	Weather. Afternoon. (6 hours ended 13h.)	Weather. Night. (6 hours ended 7h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 13h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	bm,b	b	b	53	46	39	-	Tr	7.5	*	*	5
Croydon	244	bm,bc	bc,b$_2$	b,pr	54	44	39	-	01	8.0	"	"	6
Greenwich (Royal Obsy.) ..	149	bc,b	by	b,c,pg	54	46	30	-	03	7.3	57	81	5
City (Bunhill Row)	39	*	*	*	*	*	*	*	*	5.4	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	55	42	41	..	1	7.1	65	96	*
Regent's Pk. (Botanic Gdns).	165	*	*	*	*	*	*	*	*	6.9	*	*	*
Camden Square..	110	b	b	*	52	48	*	-	1	*	*	92	*
Kensington Palace	60	bc	bc	*	54	47	38	-	1	*	(At 18h) 77	92	*
Hampstead Observatory ..	450	*	*	*	53	44	37	Tr	03	7.1	*	91	*

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

10th & 11th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.7	11.37	16.6
	7.9	11.37	16.4
Greenwich	7.10	11.44	16.17
	7.12	11.44	16.15
Wick	7.51	11.56	16.1
	7.53	11.56	15.59
Valentia	7.53	12.15	16.56
	7.55	12.15	16.55

Weathers.

	Morning. (6 hours ended 7h.)	Afternoon. (6 hours ended 13h.)	Night. (6 hours ended 7h.)
Lerwick	bm,b	b	b,bc,w$_f$
Stornoway	bm,bc	bc,b$_{2o}$	b,pr$_o$
Wick	bc,b	by	b,c,pg

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.0	9h	0st	<0.3	24h 9st to 2nd 10h

Kew Observatory

Max.	Time.	Min.	Time.
0.4	16h 3m	<0.1	23h 9th to 7th 10th

Pole Star Record at Greenwich Obsy.

Exposure from 9th 17h 15m to 10th 6h 15m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 0	7 40	59
δ Ursae Minoris	13 0	5 33	43

Code for State of Ground.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 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).

Beaufort Notation of Weather.

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

Symbols.

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

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

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

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

Sea Disturbance.

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

‡ Telegraphic Code for Surface Visibility.

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

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

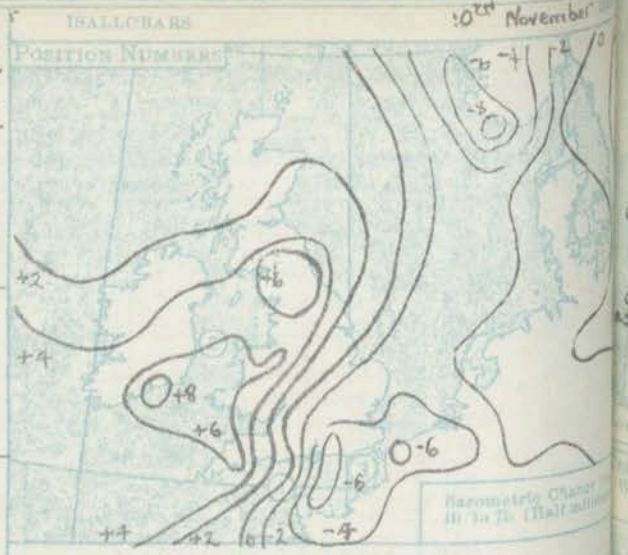
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

SUN 9TH Hours.

STATIONS.	WEATHER. 7h.-13h. 9TH	13h.-18h. 9TH	18h. 9TH to 1h. 10TH	1h.-7h. 10TH	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-18h. m.m.	began.	Night. 18h.-7h. m.m.	began.	Hours.
Lerwick	cpr,rq	cph,rq	cbc lr,	bcpr	44	38	.	2	8.00	8	21.00	0.3
Stornoway	p	cpr bc	bcprb	p	42	37	.	0.5	8.00	1	21.00	3.5
Wick	b-bc	b-bc	bbc	b-bc	+1	35	.	–	–	–	–	.
Tiree	bcqpn	bcqc	bccpr	prpR	46	36	30	1	8.00	1	22.00	2.8
Nairn	bcRx	cbc pr	cpr	bcx	41	33	.	+	11.00	0.2	21.00	2.5
Aberdeen	b	b	bbcc	cbcbx	44	35	25	–	–	–	–	5.9
Malin Head	CTL Rh	cinr	cigcbcpr	bcph,r	45	39	.	10	8.00	1	21.00	1.4
Renfrew	bcoRq	bcbqr	bcr, cp	cr,cP	45	34	29	5	8.00	4	21.00	2.5
Edinburgh (Inchkeith)	bcpRs	opr bc	cpr r, r,	osc,r,cbc	46	38	36	3	8.00	2	21.00	3.3
Leuchars	bcpRsRoqR	bcqpr,c	c cr,c	c, b	43	33	26	3	8.00	1	22.00	4.0
Eskdalemuir	bcpr,	bcqprncr,	orrass	ossbc	45	32	31	3	8.00	15	21.00	4.5
Tynemouth	bcp,q	bcq	bcor,r,	OiR	49	38	34	Tr.	9.00	11	21.00	.
Blacksod Point	phqc	rr	pc	pbc	49	41	.	1	.	2	.	.
Donaghadee	bbcq	cor,	orrc	cbcx	47	35	.	0.5	15.30	7	21.00	.
Birr Castle	cRO	orr	orrc	crbx	48	33	24	11	8.00	8	21.00	0.8
Holyhead	bcqpr,c	bccpr	c,qrRq	r,bc	52	45	42	2	8.00	13	21.00	2.0
Liverpool (Bidston)	cpbc	bcoR	R bcC	q,orR	49	42	39	3	11.00	5	21.00	1.4
Chester (Sealand)	prnqc	bc,r	Rcir	CRqR	53	43	39	2	9.00	13	21.00	3.1
Harrogate	prsrbcq	C	CoiR	CoRqiR	48	39	36	4	9.00	7	21.00	1.5
Spurn Head	bcc	cbc	bcc	cqr	49	45	.	–	–	1	5.30	5.0
Birmingham (Edgbaston)	boc	rlc r,	bc	bcorr	52	42	40	1	13.30	5	4.30	6.9
Cranwell	boc	cb	bc	cor	50	42	39	–	–	3	6.30	6.3
Gorleston	b	b	bbcq	bccq	52	44	39	–	–	–	–	7.2
Valentia (Cahirciveen)	cp	cir,tlic,rr	CRRbc	cprbcy	53	43	39	3	8.00	15	21.00	1.5
Roches Point	bcci,	cir,c	corrRc	c	53	40	.	2	9.00	10	21.00	.
Pembroke (St. Ann's H.)	bc	cbocc	crrq	crrcc	54	45	.	0.1	13.30	14	22.00	3.3
Ross-on-Wye	bbcc	btcb	bbcc	cqRq	54	43	41	–	–	9	3.30	5.5
Leafield	b	bcb	bbcc	coR	50	42	38	Tr.	–	2	5.30	6.1
Winchester (Worthy Dn.)	bcq,bcb	bcb	bccp,tbc	ccrm,	51	44	40	–	–	1	21.00	7.9
S. Farnborough	abi,bc	b	b,cp,	c	55	45	36	–	–	0.2	21.00	8.0
London (Kew Obsy.)	bm,ab	b	bbcw	bcp,c	53	46	39	–	–	Tr.	6.30	7.5
Croydon	bm,bc	bcbz,	bopr,	9	54	44	39	–	–	0.1	22.00	8.0
Shoeburyness	b	b	bbw	bcc	54	44	41	–	–	–	–	7.8
Clacton-on-Sea	bcm	bcmbc	bc	bc	52	47	43	–	–	–	–	7.6
Felixstowe	bz,	bz,	bzw	bcc	52	46	43	–	–	–	–	7.2
Lympne	bm,bc	bbc	bbc	bcc	52	45	40	–	–	–	–	8.0
Scilly (St. Mary's)	bc	bcc	corr	orcP	56	45	..	–	–	8	22.00	6.3
Falmouth (Pendennis)	cbcp,	bc	bccq	cbcrq	55	46	.	2.3	8.00	6	1.30	6.1
Plymouth (Mt. Batten)	bbc	bccpr,	cbcoq	ORqRb	55	46	42	Tr.	16.30	5	2.30	5.8
Portland Bill	bc	bcc	c	orr	55	48	.	–	–	5	5.30	.
Southampton (Calshot)	cc	bcyb	bcprcq	bcqpr,q	56	50	47	–	–	1	22.00	8.0
Dungeness	bc,bc	bc	bcpr,bc	bccq	55	48	.	–	–	–	–	.
Guernsey	cbcbc	coco	cbc	bcor	56	49	44	–	–	2	6.30	4.4

bccPq



Barometric Change in 3 h. (Half millibars)

Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	9th 10h	Cambria	NNW	5	cc	50	54
1	9th 12h	St. Helier	WSW	5	c	56	56
3	10th 2h	Dieppe	WSW	5	bc	52	54

GENERAL INFERENCE

A depression over Iceland has begun to fill up and an associated trough of low pressure over the North Sea is moving away eastwards. A period of mainly fair weather will ensue, apart from some showers of a wintry type in the west and north before unsettled conditions are renewed by another disturbance far out on the Atlantic.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 10th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind westerly, mainly moderate; becoming fine generally; moderate day temperature; ground frost at night.	Unsettled conditions will spread in from the west.
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	Wind westerly, moderate to fresh on the coast; considerable bright periods; some local showers of rain or hail; moderate to rather low day temperature; ground frost at night.	
13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind westerly, moderate to fresh on the coast; cloudy and bright periods; some showers of a wintry type; rather low temperature; local night frost.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 to 10.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1130 G.M.T. C.C. Stimson, O.B.E., D.Sc., F.R.S., Dir.

† For code see page 1

Trace = rain has fallen, but amount less than

SYNOPTIC CHART FOR 7h SUNDAY, 10TH NOVEMBER, 1929

Scale - 1:10,000,000

Nautical Miles

Statute Miles

LOW

Barometer

(0) 30 O'cast +3 rising (10) 32 O'cast +4

slowly

(27) 37 Cloudy

Barometer

"Bergensfjord" (21) 42 Sea 50 Fine

(10) 43 Fine

steady

(15) 39 Showers (10) 37 Fine

(0) 35 Fine "Jupiter" (15) 44 Sea 43 Fine

Barometer

(5) 37 Cloudy

(27) 44 Hail Showers

(10) 38 Cloudy

(21) 44 Fine

(15) 45 Rain

(27) 45 Fine

(2) 36 Fine

(10) 42 Rain

(15) 47 Fine

(27) Sea Mist 40 Sea 54 Fine

(15) 46 Fine

rising

(21) 47 Cloudy

(15) 49 Rain

(15) 49 Cloudy

Barometer (21) 49 Cloudy

falling

(10) 37 Cloudy

(27) "H.M.Ship." 53 Sea 57 Fine

slowly

(2) 43 Drizzle

(35) 43 Cloudy

(24) 32 Cloudy

Bar. falling

(15) 43 Rain briskly

(27) 41 Rain

Bargmeter

rising (15) 43 Fine

slowly

HIGH

(2) 37 1018 O'cast

(27) 48 Showers

Barometer falling

(3) 34 Fine

slowly

HIGH

1018

1012 L

HIGH

(2) 58 Cloudy

Barometer

(0) 48 Cloudy 1016

HIGH

steady 1016

(0) 50 Cloudy

LOW

EXPLANATION.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4 BRITISH SECTION. Sunday, 10th November 1929. No. 314

Observations at 1h. G.M.T. 10th

STATIONS.	Height above M.S.L., in feet.	Baromr. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	54	999.2	-1	SW	3	b,p	42	75	8	1500	CuNb	3	Ac	5
Stornoway	30	994.1	-1	W	4	bc-	*	*	7	*	*	*	*	4
Wick	81	994.0	-1	SW	4	bc	37	85	8	4000	Stcu	3	-	3
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	65	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	83	998.7	-2	WNW	5	b,p	44	75	8	4000	CuNb	1	-	1
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	997.7	-4	SW	2	dr,f	39	97	8	2500	Sc	10	-	10
Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	784	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	995.3	-8	SW	3	dr,f	45	97	7	1500	Nb	10	-	10
Blacksod Point	18	1001.3	0	W	4	bc	44	65	6	*	CuNb	7	-	7
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	30	998.6	-5	NW'N	6	RR	46	97	6	800	Nb	10	-	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1003.8	-4	SSW	6	c+	47	92	7	4000	Nb	8	Ast	10
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	350	1005.4	-6	S	5	bc	47	85	7	2500	Stcu	5	-	5
Gorleston	14	1010.7	-6	SSW	5	bc	46	85	7	4000	Stcu	3	-	8
Valentia/Cahirciveen	30	1000.3	+4	SWN	6	bc/PR	46	97	8	*	Sc	6	-	6
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1000.2	-7	SW	5	RR	53	97	6	800	CuNb	10	-	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	372	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	50	*	*	*	*	*	*	*
Croydon	344	1012.1	-5	SW	4	0	50	75	7	1500	Sc	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1014.0	-5	S	5	bc	49	75	8	-	-	0	Cist	4
Scilly (St. Mary's)	168	1006.5	-5	SW	8	RR	51	97	7	2500	Nb	10	-	10
Falmouth (Pendennis)	300	1008.2	-6	SW	8	c+	53	75	7	4000	Stcu	9	-	9
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1009.9	-6	SSW	6	c	53	75	8	1500	Stcu	8	Ast	9
Southampton (Calshot)	10	1012.3	-5	SSW	6	bc	52	75	7	2500	Stcu	4	-	4
Dungeness	30	1012.4	-4	SW	6	bc+	52	75	8	2500	Cu	5	-	5
Guernsey (St. Peter Port)	178	1013.4	-7	SSW	8	bc-	50	86	8	4000	Stcu	4	-	4

Observations at 7h. G.M.T. 10th

STATIONS.	Baromr. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-8
Lerwick	999.8	0	SW	3	b,p	43	75	8	1500	CuNb	6	-	6	*
Stornoway	999.7	0	SW	4	b,p/RR	39	86	7	4000	CuNb	3	Ac	4	3
Wick	999.1	0	SW	3	bc	37	85	8	2500	Stcu	3	Ast	4	5
Tiree	999.0	+1	W'N	5	bc	42	75	8	2500	CuNb	5	Ast	6	*
Nairn	998.8	*	-	0	bc	35	85	8	2600	Cu	+	-	4	*
Aberdeen	997.1	+3	-	0	b	35	85	8	-	-	0	Ast	1	0
Malin Head	1002.2	+3	WNW	6	b,p/RR	44	75	8	2500	Cu	5	-	5	6
Renfrew	1000.9	+2	SW	2	c/p	37	97	8	2500	CuNb	9	-	9	*
Edinburgh (Inchkeith)	999.0	+3	SW	3	bc	39	92	8	-	-	0	Ast	4	1
Leuchars	998.6	+2	WSW	3	b	34	97	8	4000	Stcu	2	-	2	*
Eskdalemuir	1002.1	+6	WSW	4	bc+	34	92	8	1500	Stcu	3	Ast	5	*
Tynemouth	1000.4	+6	W	3	c/r	38	92	6	1500	Nb	8	-	8	1
Blacksod Point	1006.0	+2	W	5	bc	44	65	8	*	Cu	5	-	5	7
Donaghadee	1002.6	+4	WNW	2	bc-	36	92	8	4000	Stcu	3	Ac	4	2
Birr Castle	1001.3	+4	SW	1	b	30	97	8	4000	Stcu	2	-	2	*
Holyhead	1006.0	+7	NW'W	6	bc+	45	75	8	1500	Cu	6	Ci	6	6
Liverpool (Bidston)	1003.8	+5	NW'W	5	c	45	76	8	1500	CuNb	7	Ci,St	8	*
Chester (Sealand)	1004.3	+6	W	4	c/PR	+3	85	7	2500	Nb	6	Ast	8	*
Harrogate	1003.2	+6	WSW	2	c	39	92	9	2500	Nb	7	Ast	9	*
Spurn Head	1001.7	+1	W	4	crr	45	97	7	4000	Nb	6	Ast	10	*
Birmingham (Edgbaston)	1004.5	+2	NW	3	dr-	42	97	7	1500	Nb	10	-	10	*
Cranwell	1003.4	+1	WSW	3	crr	+3	92	7	800	Nb	6	Ast	10	4
Gorleston	1006.4	-3	SSW	5	c	49	85	6	4000	Stcu	10	-	10	*
Valentia/Cahirciveen	1011.7	+5	W	4	bc	47	65	8	2500	Cu	5	-	5	4
Roches Point	1011.5	+8	W	3	c	41	92	8	2600	CuNb	8	-	8	2
Pembroke (St. Ann's H.)	1007.1	+7	NW	4	bc-	46	65	8	800	CuNb	4	-	4	*
Ross-on-Wye	1006.0	+3	WNW	3	c/r	43	85	8	2600	Nb	7	Ast	10	*
Leafield	1003.1	-2	S'W	4	RR	45	97	6	800	Nb	10	-	10	*
Winchester (Worthy Dn.)	1004.2	-4	SSW	4	cr	48	92	6	800	Nb	9	Ast	10	*
S. Farnborough	1005.3	-6	SSW	4	o	49	85	6	1500	Sc	10	-	10	*
London (Kew Obsy.)	1007.9	-4	SSW	4	c/r	+3	85	8	1500	Stcu	7	Ast	10	*
Croydon	1006.3	-6	SSW	4	o	48	85	7	1500	Sc	10	-	10	*
Shoeburyness	1007.2	-3	SSW	3	c	48	85	8	4000	Stcu	8	Ast	9	5
Clacton-on-Sea	1007.3	-4	SSW	4	bc	49	85	7	4000	Stcu	6	-	6	3
Felixstowe	1007.3	-4	S'W	5	c	49	85	8	-	-	0	Ast	10	*
Lympne	1008.1	-4	S	5	bc-	48	85	8	1500	Stcu	7	-	7	*
Scilly (St. Mary's)	1011.1	+5	NNW	5	c	47	85	8	4000	Cu	8	-	8	1
Falmouth (Pendennis)	1009.6	+5	NW'N	5	bc/pc	46	85	8	4000	CuNb	5	-	5	2
Plymouth (Mt. Batten)	1008.1	+6	NNW	5	b-	46	85	7	2500	CuNb	2	-	2	6
Portland Bill	1005.0	+2	W	4	crr	49	85	7	800	Nb	10	-	10	3
Southampton (Calshot)	1005.8	-7	S'W	6	dr,f	51	86	6	1500	Nb	10	-	10	5
Dungeness	1007.6	-4	SW	6	c	51	75	8	2600	Cu	7	Cist	10	5
Guernsey (St. Peter Port)	1008.4	-3	W	4	DR-	49	97	6	1500	Nb	10	-	10	5

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

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)
Berwick-on-Tweed	b	bc,c	35	47	mm. 2	mm. Trace	hr. 6.8
Douglas (I. o. M.)	cbc	cbc	40	48	1	Trace	2.8
Llandudno	crc	bccr	42	51	1	2	1.5
Colwyn Bay	obcbp	bcoro	42	52	0.3	2	2.3
Rhyl	bcp	bcp	37	52			1.9
Wallasey	bcpc	bbc or	39	51	0.3	1	1.2
Southport	bc	ocr	*41	50	1	2	1.4
Blackpool	c	cop	45	49	1	Trace	0.3
Morecambe	bccp	c	41	50	1	Trace	0.3
Ilkley	blhr	bc	35	48	1	7	1.6
Cleethorpes	bo	b	36	60	-	-	5.0
Mablethorpe	mbxw	bcb	35	51	-	-	6.1
Skegness	b	bc	34	52	-	-	4.4
Aberystwyth	rupt	blrc	45	52	3	2	1.1
Bath	bccb	b	31	56	-	-	6.7
Cheltenham	bbcc	cc	36	53	-	-	7.0
Leamington Spa	b	bbc	32	53	-	-	5.4
Lowestoft	b	b	35	52	-	-	7.2
Harwich & Dovercourt	bc	bc	35	53	-	-	7.5
Yieldon	b	b	34	52	-	-	6.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	b	b	47	55	-	-	4.4
Bude	10bc	bc	48	55	Trace	-	6.0
St. Ives	b	c	48	56	0.5	-	5.3
Penzance	b	b	43	57	-	-	5.9
Paignton	bwzb	bcpb	36	57	-	0.3	7.0
Torquay	wbbcc	orpbc	40	57	-	Trace	7.1
Jersey	bc	bc	42	56	-	-	8.0
Weymouth	b	b	35	57	-	-	7.5
Bournemouth	b	b	47	56	-	-	7.4
Ventnor	bco	bou	40	56	-	-	6.6
Portsmouth (S'thsea)	b	b	38	55	-	-	7.9
Bognor Regis	b	b	38	55	-	-	7.2
Littlehampton	b	b	38	55	-	-	7.8
Worthing	bc	bc	32	55	-	-	7.5
Brighton	bbc	b	37	56	-	-	7.5
Eastbourne	bcb	bc	36	54	-	-	8.0
Hastings	b	b	39	55	Trace	-	8.0
Folkestone	mbbc	bcbbc	37	55	-	-	7.9
Dover	b	bbc	37	54	-	-	8.1
Deal	b	b	37	54	-	-	7.7
Tunbridge Wells	b	b	36	53	-	-	8.0
Ramsgate	b	b	33	53	-	-	8.1
Margate	b	b	38	54	-	-	8.2
Southend	bc	bc	42	54	-	-	7.8
	bm	b	37	55	-	-	

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* Information not usually received. ? The observations at 1h. G.M.T., from an auxiliary station. † For code see page 1. ‡ See footnote page 3

‡ At stations marked thus the maximum temperature is for the period 21h.-9h., the minimum 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. B24826. Monday, 11th November 1929.

Observations at 15h. G.M.T. 10th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	991.3	+1	SW	3	c|p	40	75	8	1500	Cu Nb	4	ASt	8	•
Stornoway	994.2	0	WSW	4	bc	43	65	8	4000	Cu Nb	3	CiSt	5	•
Wick	995.2	+2	W	4	bc	42	75	8	4000	Stcu	2	ACu	3	•
Tiree	1000.2	+1	W'N	5	c|hc	43	75	7	2500	Cu Nb	7	CiSt	9	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	998.7	0	WSW	3	b	45	55	8	2500	Cu	1	CiCu	1	1
Malin Head	1004.3	+2	W	6	c|h(c)	42	85	7	2500	Cu Nb	9	-	9	•
Renfrew	1003.5	+2	WSW	4	bc|r	41	85	8	4000	Cu Nb	6	ACu	7	2
Edinburgh (Inchkeith)	1001.7	+2	SW	4	bc	41	85	7	4000	Nb	1	ASt	5	•
Leuchars	1000.8	+1	W	4	b	44	65	8	4000	Cu Nb	1	ACu	2	2
Eskdalemuir	1004.7	+1	WSW	4	b	39	85	8	2500	Cu	4	Ci	5	7
Tynemouth	1004.2	+2	W	4	bc	46	65	6	1500	Cu Nb	4	-	4	•
Blacksod Point	1008.3	+3	W	5	c	46	65	8	•	Cu Nb	10	-	10	•
Donaghadee	1006.0	+1	W	2	b+	44	75	8	4000	Cu	2	-	2	•
Birr Castle	1011.7	+2	SW	1	c r.	45	75	8	4000	Stcu	4	CiCu	8	•
Holyhead	1009.7	+3	W'N	6	b-	48	55	8	1500	Cu	2	-	2	1
Liverpool (Bidston)	1008.6	+4	NW	6	bc|c	46	65	7	1500	Cu Nb	7	-	7	•
Chester (Sealand)	1009.2	+4	W'N	5	bc|pc	47	65	8	2500	Cu	3	-	3	2
Harrogate	1007.0	+3	SW	3	b	46	65	8	4000	Cu	1	-	1	•
Spurn Head	1006.0	+2	NW'N	5	bc	46	85	7	5700	Stcu	4	-	4	•
Birmingham (Edgbaston)	1010.3	+3	W	4	bc|hc	44	65	8	2500	Cu Nb	3	-	3	2
Cranwell	1008.1	+4	W	4	bc|hc	46	75	7	2500	Cu	5	-	5	1
Gorleston	1005.8	-2	NW	4	o r-	43	92	6	1500	Nb	10	-	10	•
Valentia (Cahiraveen)	1015.5	+1	WSW	4	c|p	47	75	8	2500	Nb	8	ASt	10	2
Rockes Point	1015.7	+3	NW	3	bc	49	65	8	2500	Cu Nb	3	-	3	•
Pembroke (St. Ann's H.)	1012.7	+5	W	4	bc+	49	65	8	2500	Cu	5	-	5	•
Ross-on-Wye	1011.5	+3	WNW	4	bc	48	55	9	4000	Cu	3	-	3	2
Leafield	1010.1	+5	WNW	4	bc|p	48	65	9	4000	Cu	5	-	5	0
Winchester (Worthy Dn.)	1011.5	+5	WNW	5	bc	47	65	8	4000	Cu	4	-	4	2
S. Farnborough	1010.4	+4	NW'W	4	bc	48	55	8	2500	Stcu	4	-	4	2
London (Kew Obsy.)	1010.1	+8	WNW	3	bc	48	65	7	2500	Cu	4	-	4	1
Croydon	1010.2	+9	NW	4	bc-	47	75	5	1500	Stcu	6	-	6	2
Shoeburyness	1009.0	+5	NW	4	bc-	45	75	8	1500	St	2	ACu	6	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1007.7	-4	NW'W	5	c|r	45	85	8	1500	St	8	ACu	9	1
	1009.0	+4	NW	5	c|r	44	85	6	1500	St	9	-	9	2
Scilly (St. Mary's)	1017.2	+6	NW'N	6	bc	50	65	7	4000	Cu	4	-	4	•
Falmouth (Pendennis)	1017.5	+5	NW'N	5	bc	49	55	8	4000	Cu	4	-	4	•
Plymouth (Mt. Hatten)	1015.5	+5	NW	5	bc	46	75	8	4000	Cu Nb	4	-	4	2
Portland Bill	1012.2	+5	WNW	7	bc	51	65	8	1500	Cu Nb	6	-	6	•
Southampton (Calshot)	1012.1	+6	WNW	4	bc	50	55	8	2500	Stcu	3	-	3	2
Dungeness	1008.9	+4	N	6	bc|r	47	85	7	1500	Stcu	4	ASt	7	•
Guernsey (St. Peter Port)	1016.6	+7	NW	4	bc	50	65	9	2500	Stcu	4	-	4	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	992.8	+2	W	2	bc|p	40	85	8	1500	Cu Nb	4	ACu	7	•
Stornoway	995.7	+2	WSW	4	bc	40	75	7	4000	Cu Nb	3	-	3	2
Wick	996.5	+2	WSW	3	bc	37	75	8	4000	Cu	3	-	3	1
Tiree	1001.4	+1	W'S	4	c|PH	41	85	7	2500	Cu Nb	7	ASt	8	5
Nairn	997.6	•	W&W	3	bc+	40	75	8	2600	Cu Nb	7	-	7	•
Aberdeen	1001.1	+2	SW	2	bc+	38	75	6	-	-	0	Ci	3	0
Malin Head	10049	+1	W	6	c|p	43	97	7	2500	Cu Nb	8	-	8	7
Renfrew	10055	+2	W	3	or	39	97	6	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	1002.8	+2	WSW	4	bc	40	92	8	-	-	0	ASt	3	2
Leuchars	1002.6	+2	WSW	4	bc	38	92	8	4000	Stcu	2	Ci	4	•
Eskdalemuir	1006.6	+1	WSW	6	bc|pc	37	85	8	1500	Stcu	4	ASt	6	•
Tynemouth	1006.7	+2	W	2	bc	42	75	6	2500	Cu	3	Ci	5	1
Blacksod Point	1009.3	+5	W	5	bc	46	65	8	•	Cu Nb	7	-	7	7
Donaghadee	1007.1	+1	W	2	bc	41	85	7	4000	Stcu	5	-	5	1
Birr Castle	1012.3	+1	SW	1	c	40	92	7	-	-	0	ASt	10	•
Holyhead	1011.3	+1	WSW	5	c	46	65	7	2500	Stcu	8	ASt	9	4
Liverpool (Bidston)	1011.3	+2	WSW	4	c b	43	65	8	2500	Stcu	4	Ci	6	•
Chester (Sealand)	1011.4	+2	SW'W	3	b	42	75	7	4000	Cu Nb	1	CiSt	2	•
Harrogate	10098	+3	SW	3	b	40	75	7	-	-	0	CiSt	2	•
Spurn Head	10094	+3	W'N	5	bc-	43	92	6	-	-	0	ASt	3	4
Birmingham (Edgbaston)	1014.2	+4	WSW	3	b+	41	75	6	-	-	0	CiSt	2	•
Cranwell	1012.4	+6	SW'W	3	b-	40	75	7	-	-	0	-	0	•
Gorleston	1012.2	+6	W'S	2	b	43	85	6	-	-	0	-	0	0
Valentia (Cahiraveen)	1016.2	+1	W	5	c|p	46	75	8	1500	Nb	6	ASt	9	6
Rockes Point	1017.0	+2	NW	3	c	44	85	8	1500	Cu Nb	6	-	9	4
Pembroke (St. Ann's H.)	1014.7	+2	W	4	c+	49	75	8	2500	Cu	7	ASt	10	2
Ross-on-Wye	1014.9	+3	WSW	3	c+	43	75	9	4000	Cu	1	CiSt	9	•
Leafield	1015.2	+5	WSW	3	b	39	65	9	5700	Stcu	1	Ci	2	•
Winchester (Worthy Dn.)	1016.5	+7	W'S	2	b	40	75	8	4000	Stcu	1	-	1	•
S. Farnborough	1015.8	+6	W	1	b	39	85	7	-	-	0	-	0	•
London (Kew Obsy.)	1016.1	+7	WSW	2	b	43	75	5	-	-	0	-	0	•
Croydon	1015.7	+8	W'N	3	b-	43	75	5	-	-	0	-	0	•
Shoeburyness	1015.4	+6	W	2	b	43	75	7	-	-	0	-	0	•
Clacton-on-Sea	1013.9	+5	NW	3	b	43	85	7	2500	Cu	2	-	2	2
Felixstowe	1014.2	+7	WSW	3	b	43	75	8	-	-	0	-	0	0
Lympne	1015.6	+8	W'S	3	b	41	75	7	-	-	0	ACu	1	•
Scilly (St. Mary's)	1020.7	+3	WNW	6	c|pr	47	75	7	4000	Stcu	9	-	9	5
Falmouth (Pendennis)	1020.6	+3	WNW	4	bc	47	65	8	4000	Cu Nb	3	ASt	5	1
Plymouth (Mt. Hatten)	1019.3	+4	NW	3	b-	47	65	7	4000	Cu Nb	1	Ci	1	1
Portland Bill	1017.0	+6	W'N	6	c+	50	55	8	2500	Stcu	9	-	9	6
Southampton (Calshot)	1017.7	+7	WSW	3	bc	42	75	8	4000	Cu Nb	3	-	3	0
Dungeness	1015.3	+7	NNW	2	bc-	44	85	8	-	-	0	ASt	5	3
Guernsey (St. Peter Port)	1021.4	+8	NW	4	bc|r	48	75	8	2500	Stcu	4	-	4	5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
		24 HOURS ENDED 8h.			YESTERDAY.						YESTERDAY.	TO-DAY.	
Kew	18	cr bc	bc bm.	bc w	50	39	33	1	Tr.	3.4	•	•	7
Croydon	244	cr r bc	bc bz.	b bc b	50	38	34	3	-	2.7	•	•	5
Greenwich (Royal Obsy.)	149	cr d. c	c b bc b	b x c	50	39	30	2	Tr	1.5	57	78	6
City (Bunhill Row)	80	"	"	"	"	"	"	"	"	2.1	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	50	41	33	1		2.0	73	83	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	2.4	•	•	•
Camden Square	110	orc	c b c b	•	49	41	•	1	-	•	•	84	•
Kensington Palace	80	c r b c	bc	•	49	40	30	0.5	-	•	(At 18h) 68	79	•
Hampstead Observatory	460	•	•	•	49	35	28	1	Tr.	3.1	•	86	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	1.0	18h.10m	<0.3	2-4h. 11m

Kew Observatory	Max.	Time.	Min.	Time.
	0.2	18h.10m	<0.1	2h.11m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 10th 12 h 15 m. to 11th 6 h 15 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 0	12 28	96
δ Ursae Minoris	13 0	12 18	95

CODE FOR STATE OF GROUND.

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

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

1929. November

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.9	11.37	16.4
	7.11	11.37	16.2
Greenwich	7.12	11.42	16.15
	7.14	11.44	16.14
Wick	7.53	11.56	15.59
	7.56	11.57	15.57
Valentia	7.55	12.25	16.55
	7.56	12.25	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 saunder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze: the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). { before (for precipitation).
⊕ = solar halo. ☿ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—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
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.

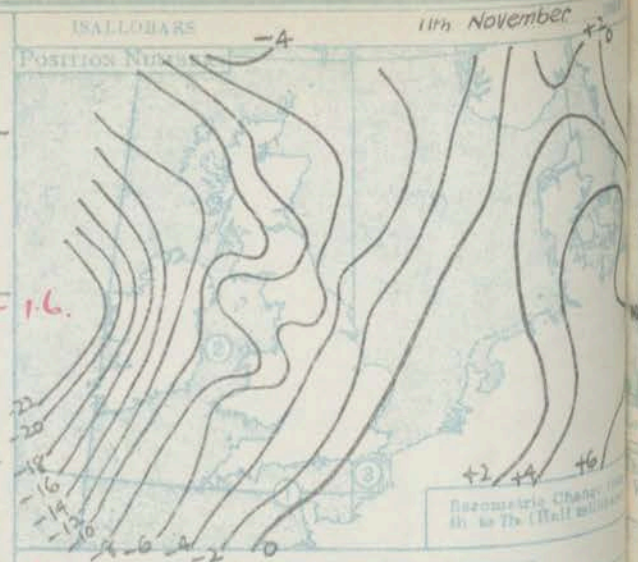
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations	Weather. 7h.-18h.	Weather. 18h.-18h.	Weather. 18h. to 1h.	Weather. 1h.-7h.	Temperature. Max. Day 7h.-18h.	Temperature. Min. Night 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Day. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. began.	Sun. Hours.
Lerwick	bcc PH	cbcphr	bcphr	bcphr	44	38	.	11	<8.00	10	<21.00	1.1
Stornoway	bcprbc	bcprbc	cphc	bcorr	43	36	.	2	<8.00	5	24.00	2.5
Wick	b-bc	b-bc	b-bc	c	42	36	.	–	–	–	–	.
Tiree	phr	cHq	cqH	qHt	46	40	33	6	<8.00	3	<21.00	1.1
Nairn	bcd	qbc	bccpr	cpc	41	36	.	0.1	<8.00	1	<21.00	5.2
Aberdeen	bz.by	bybcz.	bc	c	46	35	26	–	–	–	–	7.1
Malin Head	cqihr	cqihr	[illegible]	cir	44	42	.	3	<8.00	5	<21.00	~~0.6~~ 1.6.
Renfrew	bcPRq	cPqcr.	PHirq	r.orrq	45	36	34	5	<8.00	10	<21.00	2.6
Edinburgh (Inchkeith)	bcpr	bcir.	[illegible]	bccc	44	36	36	0.5	9.00	4	<21.00	5.7
Leuchars	b	bbc	bcbwbc	bccr.	44	35	30	–	–	0.1	6.30	6.5
Eskdalemuir	bcbrs	bcbrscpr	bcpr.	bcprorrq	40	35	32	2	9.00	5	<21.00	3.9
Tynemouth	cbc	bc	bc	bc	46	40	34	–	–	–	–	.
Blacksod Point	bc	bc	crr	rr	47	43	.	2	.	13	.	.
Donaghadee	bcb	bbc	bcpr	cir.	46	37	.	–	–	1	<21.00	.
Birr Castle	bbc	cr.oir	oir	orr	45	39	34	4	12.30	6	<21.00	3.5
Holyhead	bc	bbcc	r.c	r.r.	48	46	43	–	–	3	<21.00	6.8
Liverpool (Bidston)	cbcph	cbcbc	cp.bc	bcc	47	42	38	Tr	11.00	Tr.	<21.00	~~5.2~~ 4.5
Chester (Sealand)	bcpr.	bcb	bbc	bcemr.	47	41	33	Tr	9.00	Tr.	6.30	6.1
Harrogate	cb	b	bbccp	bccp	46	38	34	–	–	0.6	<21.00	4.1
Spurn Head	crcbc	bc	bc	bcc	47	38	.	0.6	<8.00	–	–	2.4
Birmingham (Edgbaston)	or.bc	bcb	bcb	bbcc	47	38	36	Tr	<8.00	Tr.	6.30	6.6
Cranwell	cr.e	bc	bc	bc	47	37	34	1	<8.00	–	–	3.7
Gorleston	corrq	orcbc	b	bx	60	38	33	7	11.00	–	–	1.3
Valentia (Cahirciveen)	bcychhr	cph	cir	Rcorr	48	45	44	4	9.00	21	22.00	1.3
Roches Point	cbcpbc	bccb.c	cw	corr	49	43	.	0.3	11.00	4	3.30	.
Pembroke (St. Ann's H.)	bcq	bccq	cph	crr	50	47	.	–	–	3	<21.00	5.3
Ross-on-Wye	cbbc	bcybv	cbbc	cor.	48	41	33	–	–	0.4	6.30	6.6
Leafield	cRbcv	bcp.bv	bc	bcwc	48	35	30	2	<8.00	Tr.	–	6.0
Winchester (Worthy Da.)	cRHm.rbc	bcb	bbcc	cbcw	50	35	31	4	<8.00	–	–	5.6
S. Farnborough	corrbcy	bcyvb	b	bbc	50	37	27	3	<8.00	–	–	4.3
London (Kew Obsy.)	cr.bc	bcbm.	bc	bcw	50	39	33	1	<8.00	Tr.	–	3.4
Croydon	cm.rrbc	bcbz.	bz.bc	bcb	50	38	34	3	<8.00	–	–	2.7
Shoeburyness	corrcbc	bcb	bbc	bcw	51	39	33	2	9.00	–	–	3.2
Clacton-on-Sea	bccrdbc	bcb	b	bbc	50	40	34	3	9.00	–	–	2.6
Felixstowe	cr.rrq	b	b	bw	51	39	35	2	11.00	–	–	2.2
Lympne	bccrorr	cm.bm	b	b	49	36	31	2	9.00	–	–	1.6
Scilly (St. Mary's)	bc	bccb.	cbcp	bccp	51	45	.	Tr	12.30	1	<21.00	6.4
Falmouth (Pendennis)	bcp.q	bcp.	bcp.	bccr.q	51	46	.	0.1	<8.00	Tr.	<21.00	6.5
Plymouth (Mt. Batten)	bbcqbrr	bqcbr.	bqc	crmq	50	46	43	0.4	9.00	Tr.	6.30	6.8
Portland Bill	oRcbc	bcc	cbc	bcc	53	49	.	Tr	<8.00	–	–	.
Southampton (Calshot)	orccrrqc	bcyb	bcb	bbc	52	41	38	4	<8.00	–	–	5.5
Dungeness	cqcbrbq	bbc	bcb	bbc	54	42	.	1	9.00	–	–	.
Guernsey	bcbcvh	bcPq	cocolp	c	52	43	41	2	<8.00	0.1	22.00	6.0



GENERAL INFERENCE.

An intense depression off Northwest Ireland is moving quickly eastward and growing deeper. Gales from southwest, veering west to northwest, will be experienced generally, with rain followed by an improvement.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 11th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind southwest, strong to gale, veering west later; rainy today, mainly fine tomorrow; mild tonight, somewhat colder tomorrow.	Unsettled.
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	Wind southwest, veering west to northwest, strong to gale; some rain at first, showers and bright intervals later; mild, then somewhat colder.	South Cone hoisted at 2h. today in dists. 1,5,6,7,8, 12, 17, 18, 19 and 20, and at 8h. 20m. today in dists. 2, 10, 11, 13A, 13B, 15 and 16.
13. A. W. Scotland B. NW. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind southerly, veering northwest, strong to gale at times; rainy at first, wintry showers later with brighter intervals; rather mild, then colder.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 12.	

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

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

SYNOPTIC CHART FOR 7h. MONDAY 11TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

986 984 982 980 978

H. Barometric

(8) 21 Show. +1

(2) 28 O'cast. -1

(15) 30. Fine +0

changes slight.

LOW.

(5) 32 Show. +1

(28) 41 Showers.

Bar. Falling slowly

(5) 39 Fine

(5) 36 Cloudy. -4

(35) 41 Hail

(5) 21. Fine

(10) 43. Fine

(21) 43 Showers.

(5) 41 Rain

(21) 42 Cloudy

Barometer

(15) 41 Cloudy

43 Showers (2)

Barometer

(10) 46 Showers.

978

LOW.

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

1032

Bar. Falling very

(28) 50 Rain Rapidly.

(21) 46 Rain

(21) 46 Rain

(10) 42 Cloudy.

Falling

(21) 40 Cloudy.

(10) 48 Rain

(21) 49 Rain

(10) 42 Rain

(28) 48 Cloudy.

37 Fine (15)

(10) 38 Fine

(42) 57 Rain

(42) 58 50 Sea. Obscr.

SAMARIA

(21) 51 Rain

(10) 41 Fine

(35) 59 51 Sea. Obscr.

BERENGARIA

(42) 60 62 Sea. Rain

MAURETANIA

Briskly

(35) 51 Rain

(28) 53 Cloudy

(10) 37 Fine

(2) 41 Fine

Rising

(10) 51 Fine

(24) 54 Cloudy.

(5) 37. Fine

(5) 36 Fine

(6) 36 Fine

(5) 41 Rain

(5) 45 Cloudy.

Slowly

LOW.

(35) 50 Fine

H.M. Ship. (10) 57 59 Sea.

(2) 45 Fine

(10) 41. Fine

H I G H.

EXPLANATION.

BAROMETER. Isobars are drawn for each tenth of an inch.

WIND. Arrows fly with the wind. Number of feathers indicates force. Short lines mean calm. Strength 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 clouded. Sky more than ½ clouded. Overcast sky. Rain falling. Hail. Sleet. Mist. Thunder. Lightning.

STATE OF SEA. Very Rough.

ICE AND ICEBERGS. Barometric change from each half millimetre is entered beside the word for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday 11th. November 1929. No. 315

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

STATIONS.	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Heights Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	54	992.5	0	SW	3	bcjp	42	75	8	1500	CuNb	4	Ci St	5
Stornoway	80	996.7	-2	W	4	bc	*	*	7	*	*	*	*	7
Wick	81	997.0	0	SW	3	bc	36	92	8	2500	St Cu	3	-	3
Tiree	33	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1003.2	-4	S	5	c/r	42	97	7	4000	Nb.	1	Ci St	9
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1003.5	+1	SSW	5	bc	39	92	8	2500	St.	4	-	4
Lenchars	20	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1007.2	+1	W	2	bc	41	75	6	2500	Cu.	3	Ci.	4
Blacksod Point	18	1004.2	-3	W	6	orr	50	85	6	*	Nb.	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	30	1011.4	0	SW/W	5	c	47	75	8	-	-	0	Ci St.	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1011.6	0	WSW	4	bc	40	92	7	-	-	0	A St.	3
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	336	1013.5	+1	SW/S	4	b-	38	85	6	2500	St Cu	1	-	1
Gorleston	14	1015.3	0	SW	3	b	38	85	7	-	-	0	-	0
Valentia (Cahirciveen)	30	1010.8	-8	SW	7	ORR	50	97	8	*	St.	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1013.6	+1	W	5	bc-	50	75	8	1500	Cu Nb	3	A St.	7
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	40	*	*	*	*	*	*	*
Croydon	344	1017.5	0	WS	4	bc	43	75	7	4000	St. Cu.	4	-	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	360	1018.1	+1	SW/W	3	b	39	85	7	-	-	0	Ci.	1
Scilly (St. Mary's)	163	1021.4	+1	NW/W	5	bc	47	75	7	4000	Cu.	4	-	4
Falmouth (Pendennis)	300	1021.4	0	W/N	4	bc	47	85	8	4000	St. Cu	3	-	3
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	33	1018.4	+1	W	6	bc-	50	65	8	1500	St.	6	-	6
Southampton (Calshot)	10	1018.8	+1	W/SW	4	b	43	75	7	-	-	0	A Cu.	1
Dungeness	30	1016.7	+1	W	3	bc+	46	75	8	2500	Cu.	3	-	3
Guernsey (St. Peter Port)	173	1022.4	0	W	4	bc	48	85	8	2500	St. Cu	6	-	6

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility‡ 0-9	Cloud. Low. Heights Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Rain
Lerwick	988.6	-6	SW	3	bcjp	43	75	7	1500	CuNb	3	ACu	6	.
Stornoway	986.5	-11	SW	2	orr	41	97	6	1500	Nb	10	-	10	0
Wick	990.0	-6	SSW	5	c	42	85	8	2500	StCu	4	Ast	10	3
Tiree	988.4	-12	SSW	5	crr	47	97	6	1500	Nb	9	Ast	10	4
Nairn	989.3	*	-	0	c+	38	85	8	1500	CuNb	8	-	8	.
Aberdeen	984.0	-7	SSW	4	c	41	85	7	1500	Nb	7	Ast	10	0
Malin Head	990.5	-12	S	5	crr.	46	97	6	2500	Nb	8	Ast	10	1
Renfrew	995.3	-11	SW	5	orr	46	92	6	800	Nb	10	-	10	.
Edinburgh (Inchkeith)	995.7	-9	SSW	4	o	44	85	8	1500	St	10	-	10	2
Lenchars	995.3	-8	SSW	4	c/r	43	85	8	1500	Nb	5	Ast	9	.
Eskdalemuir	998.3	-10	SW	5	orr	43	97	6	800	Nb	10	-	10	.
Tynemouth	1002.5	-5	SSW	3	c+	42	92	7	1500	Nb	9	-	9	2
Blacksod Point	987.6	-22	S	6	oRR	50	85	6	*	Nb	10	-	10	7
Donaghadee	997.1	-7	SW	3	cr.	46	86	7	4000	Nb	9	-	9	1
Birr Castle	998.1	-3	S	3	orr	48	92	7	2500	Nb	10	-	10	.
Holyhead	1004.3	-8	SW's	5	or.r.	49	85	6	2500	Nb	10	-	9	4
Liverpool (Bidston)	1005.1	-6	SSW	3	c/pr	47	85	7	1500	St	9	-	9	.
Chester (Sealand)	1006.2	-8	S	4	cr.	45	92	6	1500	St	10	-	10	.
Harrogate	1005.6	-7	SSW	6	cr.	41	85	7	2500	Nb	9	-	9	3
Spurn Head	1008.9	-2	SW'W	5	c+	40	97	7	5700	StCu	7	Ci St	10	.
Birmingham (Edgbaston)	1010.8	-4	S	3	cr.	42	92	7	1500	Nb	9	Ast	9	.
Cranwell	1010.3	-3	SSW	5	c+	42	75	7	4000	St	6	Ast	9	.
Gorleston	1015.3	0	SSW	3	bc+	38	85	6	4000	Cu	2	A Cu	4	0
Valentia (Cahirciveen)	998.5	-17	SSW	8	orr	51	97	6	450	Nb	10	-	10	7
Roches Point	1006.6	-11	SW	6	orr	50	92	6	800	Nb	10	-	10	6
Pembroke (St. Ann's H.)	1008.5	-4	W	5	orr	51	97	7	800	St	10	-	10	4
Ross-on-Wye	1011.4	-5	SW's	4	or.	46	92	6	1500	Nb	10	-	10	.
Leafield	1013.1	-3	S'W	4	c+	39	92	9	2600	St Cu	2	Ast	9	.
Winchester (Worthy Dn.)	1016.5	-2	S'W	3	bc	42	92	7	6700	St Cu	4	Ast	7	.
S. Farnborough	1016.6	-2	SW'W	4	bc	43	85	8	5700	St Cu	2	Ci St	5	.
London (Kew Obsy.)	1016.4	-1	SSW	3	bc+	41	92	8	2500	St Cu	1	Ci St	6	.
Croydon	1017.2	0	SSW	4	b+	39	92	6	-	-	0	A Cu	2	.
Shoeburyness	1017.1	0	SSW	3	bc	40	97	7	-	-	0	A Cu	4	3
Clacton-on-Sea	1016.3	0	SSW	4	bc	43	85	7	2600	Cu	4	-	4	3
Felixstowe	1016.8	0	SSW	5	bc	43	85	8	-	-	0	A Cu	2	.
Lympne	1018.3	+1	SSW	2	b+	40	85	8	-	-	0	Ci Cu	2	.
Scilly (St. Mary's)	1015.3	-6	W'S	7	cr.	51	92	7	2500	Nb	9	-	9	6
Falmouth (Pendennis)	1016.6	-6	SW'W	7	cr+	53	85	6	2500	Nb	6	Ast	10	2
Plymouth (Mt. Batten)	1016.7	-5	SW	7	cr.	53	75	7	1500	Nb	7	Ast	10	6
Portland Bill	1015.8	-3	SW	7	c+	53	75	8	1500	Cu	9	Ast	10	6
Southampton (Calshot)	1018.0	-1	SW'W	3	bc+	48	75	8	2500	Cu	3	Ci Cu	6	4
Dungeness	1018.9	+2	W	4	bc+	47	75	8	2500	Cu	3	A St	5	2
Guernsey (St. Peter Port)	1022.0	0	WSW	3	bc	51	85	7	2500	St Cu	6	-	6	.

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	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	bc	bc	34	43	13	-	6.6
Douglas (I. o. M.)	bcb	bcc	40	46	22	-	6.0
Llandudno	bc	bcc	44	48	15	-	6.4
Colwyn Bay	b	bcbb	41	48	17	-	6.7
Rhyl	rbc	bc	43	48	18	0.5	6.4
Wallasey	bcb	bhbc	43	48	14	Trace	4.3
Southport	crbc	bc	* 43	47	12	-	5.7
Blackpool	orrc	bcbhc	44	48	18	0.6	5.0
Morecambe							
Ilkley	bc	bc	36	48	8	-	4.5
Claethorpes	of	b	42	47	1	-	3.1
Mablethorpe	orm	bcbm	42	47	2	-	3.1
Skegness	vro	b	40	48	5	-	1.7
Aberystwyth	rbc	q/pco	45	48	15	-	5.2
Bath	b	b	43	50	4	-	7.0
Cheltenham	bbch	bcbbc	43	51	7	Trace	5.4
Leamington Spa	cbc	bcb	43	48	11	-	?
Lowestoft	bcepr	dc bcb	42	52	-	5	1.8
Harwich & Dovercourt	acd	rbc	36	50	Trace	1	2.4
Maldon	corc	bcb	41	53	-	2	2.9
Ilfracombe	bbc	cbc	47	50	-	-	3.7
Bude	b	b	45	55	6	1	6.5
St. Ives	bcbbc	c	45	50	11	Trace	6.1
Penzance	cb	b	47	53	11	-	6.1
Paignton	Rhbbq	bcbbc	45	52	7	Trace	7.4
Torquay	cRHq	brhbbc	45	51	6	0.2	4.6
Jersey	rc	bbc	46	53	4	Trace	6.9
Weymouth	b	b	45	53	5	-	6.5
Bournemouth	cb	b	45	51	5	0.3	5.5
Ventnor	rob	b	46	50	5	2	5.1
Portsmouth (S'thsea)	orcb	b	46	50	5	0.5	4.8
Bognor Regis	crcbc	bcb	46	50	2	0.1	4.4
Littlehampton	crbc	bc	43	51	1	0.3	4.4
Worthing	orc	bcb	47	50	1	3	3.8
Brighton	rcb	bc	44	53	Trace	4	3.4
Eastbourne	rrccbc	bcb	50	53	Trace	4	1.3
Hastings	corcc	cbcb	49	53	-	2	1.7
Folkestone	orrc	cbcm	47	51	-	2	2.0
Dover	cro	rob	47	53	Trace	Trace	2.6
Deal	ocdo	obc	44	51	-		2.6
Tunbridge Wells	orac	cbc	42	50	Trace	1	1.2
Ramsgate	o	obcc	42	52	-	-	3.1
Margate	c(b)c	bcb	46	51	-	1	3.1
Southend	cor	ocb	45	51	-	1	3.7

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24827. TUESDAY, 12th NOVEMBER, 1929. Page 1.

Observations at 15h. 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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	977.3	-15	S	4	orr_o	45	85	7	1500	Nb	10	-	10	•
Stornoway	969.9	-15	WSW	1	oRR	45	92	6	1500	Nb	10	-	10	•
Wick	974.8	-17	SE	7	orr	46	92	8	1500	Nb	10	-	10	•
Tiree	968.7	-17	W'S	7	oDD	52	97	5	220	St	10	-	10	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	976.5	-21	SSE	6	orr	47	97	6	800	Nb	10	-	10	2
Malin Head	975.1	-4	SW	7	od$_o$	53	97	6	800	St	10	-	10	•
Renfrew	975.2	-24	SSW	7	oR-	51	92	5	800	Nb	10	-	10	2
Edinburgh (Inchkeith)	976.0	-29	SSW	6	orr_o	49	92	7	800	Nb	10	-	10	•
Leuchars	976.0	-25	SSE	6	orr	47	85	6	450	Nb	10	-	10	2
Eskdalemuir	978.5	-24	SSW	8	orr	47	97	5	450	Nb	10	-	10	2
Tynemouth	984.8	-20	S	4	or$_o$	47	92	6	1500	Nb	10	-	10	•
Blacksod Point	985.5	0	W	4	c/PR	52	85	8	•	CuNb	9	-	9	•
Donaghadee	977.0	-18	SW	3	cr$_o$	55	85	7	1500	Nb	9	-	9	•
Birr Castle	987.6	-8	WSW	7	c	56	85	7	2500	~~CuNb~~ 10		A.St	10	•
Holyhead	987.6	-18	SSW	8	od$_o$	54	97	6	800	Nb	10	-	10	2
Liverpool (Bidston)	988.7	-18	SW	7	c	53	75	8	1500	StCu	10	-	10	•
Chester (Sealand)	989.6	-23	SSW	6	c	55	75	7	800	St	8	A.St	9	2
Harrogate	989.9	-19	S	7	cr$_o$r$_o$	46	92	6	2500	Nb	9	A.St	10	•
Spurn Head	995.8	-8	SWS	8	cr$_o$d$_o$	48	97	6	4000	CuNb	8	CuSt	10	•
Birmingham (Edgbaston)	998.5	-15	SSW	7	crr	47	92	6	1500	Nb	9	-	9	2
Pranwell	998.3	-15	S'W	7	crr	48	85	6	800	Nb	8	A.St	10	2
Gorleston	1006.1	-12	SSW	6	orr_o	48	92	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	994.0	-2	SW	5	olr	54	92	7	1500	St	10	-	10	2
Roches Point	994.9	-7	SW	5	cd	57	97	6	1500	CuNb	9	-	9	•
Pembroke (St. Ann's H.)	994.7	-10	SW	11	oDD	54	97	5	450	Nb	10	-	10	•
Ross-on-Wye	998.2	-15	SW	7	or$_o$	49	85	6	2500	Nb	10	-	10	2
Leafield	1003.1	-12	SSW	6	orr	46	92	6	800	Nb	10	-	10	1
Winchester (Worthy Dn.)	1007.4	-11	SSW	7	crr	48	92	6	450	Nb	9	A.St	10	2
S. Farnborough	1007.5	-11	SW'S	6	crr	50	85	7	800	Nb	5	A.St	10	1
London (Kew Obsy.)	1007.1	-11	S'W	6	cr$_o$	51	85	7	800	Nb	9	ASt	10	1
Croydon	1008.9	-11	SW	6	orr_o	51	85	6	450	Nb	10	-	10	2
Shoeburyness	1008.5	-13	SW	7	cr	51	92	8	1500	Nb	8	ASt	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1008.5	-10	S'W	6	crr_o	51	92	8	1500	Nb	6	ASt	10	1
Scilly (St. Mary's)	1011.0	-10	S'W	7	cr$_o$	51	85	6	1500	St	10	-	10	1
Falmouth (Pendennis)	1003.8	-11	WSW	8	orr	53	97	6	2500	Nb	10	-	10	•
Plymouth (Mt. Batten)	1004.9	-12	SW	9	orr	52	97	6	1500	Nb	10	-	10	•
Portland Bill	1005.0	-14	SW	9	orr	51	97	5	220	Nb	10	-	10	2
Southampton (Calshot)	1006.0	-8	SW	9	oRR	52	85	5	800	St	10	-	10	•
Dungeness	1003.8	-10	SW	8	orr	51	85	6	800	Nb	10	-	10	1
Guernsey (St. Peter Port)	1010.6	-11	SW	8	c	53	75	7	1500	StCu	8	CuSt	10	•
	1015.0	-9	SW	5	orr	51	92	5	1500	Nb	10	-	10	•

Observations at 15h. 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. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	981.7	-18	S	3	or$_o$	45	85	7	1500	Nb	10	-	10	•
Stornoway	972.1	+3	NW	4	oR	39	75	6	1500	Nb	10	-	10	3
Wick	966.7	-2	WNW	4	c	42	92	8	1500	CuNb	6	ASt	8	4
Tiree	979.6	+9	NW'W	6	bc-	43	65	7	1500	CuNb	4	CuSt	7	6
Nairn	972.3	•	WNW	3	c	41	85	8	1500	CuNb	7	ACu	8	•
Aberdeen	968.7	-1	W	5	bc	50	75	8	1500	Nb	1	ACu	4	4
Malin Head	983.2	+5	WNW	6	c	48	85	7	4000	Cu	2	ASt	10	7
Renfrew	979.8	+11	~~SSE~~	6	cd$_o$	45	75	8	800	StCu	9	-	9	•
Edinburgh (Inchkeith)	974.4	0	SW	8	c	48	85	8	1500	St	10	-	10	5
Leuchars	974.8	+6	WSW	6	c	48	75	8	1500	Nb	1	ASt	10	•
Eskdalemuir	980.1	+8	WSW	5	or	44	85	6	800	Nb	10	-	10	•
Tynemouth	977.8	-1	W	5	bc/r	55	75	7	2500	Cu	7	-	7	4
Blacksod Point	988.1	+5	W	4	o/PR	46	65	7	•	Nb	10	-	10	7
Donaghadee	984.0	+10	W	3	c	47	85	7	4000	StCu	8	-	8	2
Birr Castle	988.5	-1	SW	2	orr	46	92	6	4000	Nb	10	-	10	•
Holyhead	987.8	+2	W'S	4	cr$_o$	54	75	7	1500	St	6	ASt	10	5
Liverpool (Bidston)	986.1	0	W	6	orr_o	53	75	8	1500	Nb	10	-	10	•
Chester (Sealand)	986.7	-1	W'S	4	cr$_o$	56	75	7	2500	Nb	7	ASt	10	•
Harrogate	988.2	0	SW	8	bcr$_o$	51	92	5	2500	Nb	3	A.St	4	•
Spurn Head	985.2	-4	WSW	6	c	52	97	7	4000	CuNb	6	CuSt	10	5
Birmingham (Edgbaston)	990.5	-7	SSW	5	orr	52	97	7	1500	Nb	10	-	10	•
Pranwell	988.2	-5	SWS	7	cr	54	85	8	800	Nb	8	ASt	10	•
Gorleston	994.4	-10	SSW	8	orr_o	50	92	6	1500	Nb	10	-	10	6
Valentia (Cahirciveen)	990.3	-3	NW	5	oRR	47	92	5	450	Nb	10	-	10	5
Roches Point	989.4	-7	W	4	od	56	97	6	1500	St	10	-	10	6
Pembroke (St. Ann's H.)	989.8	-5	W	7	oDD	~~59~~	97	5	450	St	10	-	10	7
Ross-on-Wye	991.5	-7	SW'W	6	od	56	92	7	1500	Nb	10	-	10	•
Leafield	993.3	-9	~~SSE~~ SSW	6	orr	52	97	6	450	Nb	10	-	10	•
Winchester (Worthy Dn.)	998.3	-10	SSW	6	orr	53	97	6	220	Nb	10	-	10	•
S. Farnborough	997.4	-12	SW'S	6	orr	52	92	5	450	Nb	10	-	10	•
London (Kew Obsy.)	997.7	-11	SSW	6	crr	52	92	7	800	Nb	8	ASt	10	•
Croydon	999.0	-11	SWS	7	orr_o	51	92	5	450	Nb	10	-	10	•
Shoeburyness	999.7	-11	SW	7	cr	50	92	5	1500	CuNb	10	-	10	•
Clacton-on-Sea	999.5	-9	SW	7	o	50	92	7	1500	Nb	10	-	10	5
Felixstowe	997.4	-9	SSW	8	orr_o	50	97	6	800	Nb	10	-	10	7
Lympne	1002.7	-10	S'W	8	orr_o	49	97	6	800	Nb	10	-	10	•
Scilly (St. Mary's)	998.2	-5	W	8	orr	55	97	5	2500	Nb	10	-	10	7
Falmouth (Pendennis)	998.3	-6	WSW	8	oR-	55	97	5	1500	Nb	10	-	10	7
Plymouth (Mt. Batten)	998.1	-7	SW	8	odd	55	97	5	220	St	10	-	10	6
Portland Bill	997.2	-16	SW	9	oRR	55	97	5	800	St	10	-	10	8
Southampton (Calshot)	999.5	-12	W'S	8	orr	53	97	5	450	Nb	10	-	10	7
Dungeness	1000.0	-15	SW	8	crr	51	97	7	1500	Nb	8	CuSt	10	7
Guernsey (St. Peter Port)	1005.8	-12	SW	5	oRR	53	97	4	800	Nb	10	-	10	8

LONDON OBSERVATIONS.

Day 7h-18h., Kew & Croydon.
9h-18h., Kensington.
3h-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility. 0-9
		24 HOURS ENDED 8h.								YESTERDAY.		TO-DAY.	
Kew	18	cr$_o$q	cr$_o$r$_o$q	crr$_o$b	53	42	36	4	11	0.0	*	*	9
Croydon	244	bcrr	orr$_o$r	brrRR	52	41	38	4	15	0.0	*	*	6
Greenwich (Royal Obsy.)	149	crr_o	crr$_o$q	bRr$_o$RR	55	40	25	4	17	0.0	87	78	5
City (Bunhill Row)	59	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	58	41	38	15		0.0	93	85	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	or	or	*	56	42	*	5	14	*	*	90	*
Kensington Palace	80	corq	odr	*	52	42	35	3	13	*	{At 18h. 94}	85	*
Hampstead Observatory	450	*	*	*	56	37	32	8	10	0.0	*	91	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0.6	11th 10h	<0.3	0-6h. 12th

Kew Observatory

Max.	Time.	Min.	Time.
0.2	11th 8h	<0.1	11th 24h

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	0.7	1
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 18h. and 15h. 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 November, 1929.

STATIONS.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.11	11.37	16.3
	7.13	11.37	16.1
Greenwich	7.14	11.44	16.14
Wick	7.16	11.44	16.12
	7.56	11.57	16.57
Valentia	7.58	11.57	16.55
	7.56	12.25	16.53
	7.58	12.25	16.52

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.s
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:—br/r = fair weather after rain; − = has decreased; + = has increased.

SEA DISTURBANCE.

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

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

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

¶ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	½ miles.
5. Poor visibility.	1 „
6. Moderate.	2 „
7. Good.	5 „
8. Very good.	11 „
9. Excellent visibility, beyond	11 „

† 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.

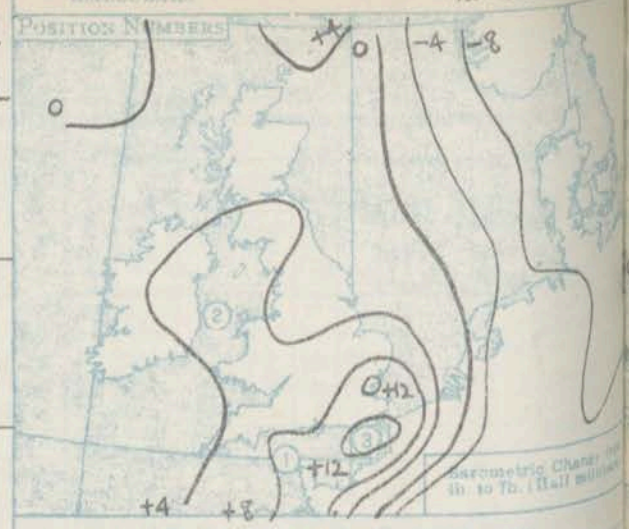
M.O. Form 2370.

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 Th.-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	bcc or q	or r o	orr q	cbcir	46	35	.	18	<8.00	5	<21.00	0.0
Stornoway	r	p	bphb	biephrbe	46	35	.	17	<8.00	3	<21.00	0.0
Wick	orr	orr c	cirh	ps bc	47	33	.	8	<8.00	4	<21.00	.
Tiree	rr D	Dqod	bepr o	pR	52	37	34	9	<8.00	1	<21.00	0.0
Nairn	cqr	rr cq	cq prs	cq	45	33	.	3	11.00	0.1	<21.00	0.0
Aberdeen	corr qm	orr q cir	bcb	b	52	34	27	8	11.00	-	-	0.0
Malin Head	cirom d	od epsc	cbephr	bc p hr	54	37	.	4	<8.00	4	<21.00	0.1
Renfrew	oRRq	orr cq	cir b,c	Pbecp	53	35	26	16	8.00	1	<21.00	0.0
Edinburgh (Inchkeith)	or r rr	oir c	cbcb	b bc	54	36	34	0.3	<8.00	-	-	0.0
Leuchars	cr rrq	orr oc	cbcbx	bx	54	33	24	7	9.00	0.1	-	0.0
Eskdalemuir	orrm	orr oirq	orm o	bcprs bc	51	32	28	41	<8.00	1	<21.00	0.0
Tynemouth	oir	oir q	bco	obc	56	36	31	2	11.00	-	-	.
Blacksod Point	prq	pp	pc	phq	55	37	.	5	.	3	.	.
Donaghadee	cir	cir c	c	cp r	57	36	.	3	<8.00	0.6	3.30	.
Birr Castle	orro	orr	orrc	cp x	58	37	29	6	<8.00	5	<21.00	0.1
Holyhead	rr q	d c q	rr	bcc	67	43	41	11	<8.00	9	<21.00	0.0
Liverpool (Bidston)	cpr	c cqr	orr q	cq ph	58	40	37	1	<8.00	12	<21.00	0.0
Chester (Sealand)	or rm	c vr	rr	rr b	60	41	36	1	<8.00	14	<21.00	0.1
Harrogate	cqr r	cbcqr	bcc ir	bcc ir	55	36	32	2	<8.00	4	<21.00	0.0
Spurn Head	cr r	cr rqc	cd orr	orr cbc	53	37	.	1	11.00	17	<21.00	0.0
Birmingham (Edgbaston)	orr	orr	or R	oRR bc	52	37	34	6	<8.00	24	<21.00	0.0
Cranwall	cr orr	cr cd	corr	orr bc	54	36	36	1	<8.00	21	<21.00	0.0
Gorleston	bcc orr	or r q	oir q	orr q	60	38	37	3	11.00	13	<21.00	0.0
Valentia (Cahirciveen)	orr ddq	cdor oR	a hp	cphrq	57	40	37	13	<8.00	8	<21.00	0.0
Roches Point	orr id	oid	corr	orcpbc	58	40	.	7	<8.00	6	<21.00	.
Pembroke (St. Ann's H.)	odd	cddq	orr q	cph q	56	45	10	+6	<8.00	13	<21.00	0.0
Ross-on-Wye	r q rq	rr q	dqr qR	q r cbc	56	40	36	10	<8.00	15	<21.00	0.0
Leafield	cir orr	oqrr	or R q	orr cbc	52	37	33	6	9.00	12	<21.00	0.0
Winchester (Worthy Dn.)	bcc rq	orr m q	orr m q	orr m tcb	53	41	36	13	9.00	16	<21.00	0.0
S. Farnborough	bcc r	orr	orr m	orr m b	52	40	36	8	9.00	15	<21.00	0.0
London (Kew Obsy.)	cc r q	cr q	orr q	cqr rm	53	42	36	4	11.00	11	<21.00	0.0
Croydon	bcc r	orr m r	orr m	orr RRc	52	41	38	4	11.00	15	<21.00	0.0
Shoeburyness	bcc ir q	cir	oir	orc m	53	39	38	2	12.30	12	<21.00	0.5
Clacton-on-Sea	bcc o	orr o	odp	orrc	50	39	38	2	12.30	11	<21.00	0.9
Felixstowe	cr o	orr m	orr m	bRRorrc	51	38	38	2	11.00	10	<21.00	1.1
Lympne	bbc cq	cr off m	orr m	orr mc	51	40	30	2	12.30	20	<21.00	1.6
Scilly (St. Mary's)	co Rr	orr	orr m	cr bcp	56	44	.	11	<8.00	10	<21.00	0.0
Falmouth (Pendennis)	orr q	om Rq	or m	om rcq	56	46	.	22	<8.00	13	<21.00	0.0
Plymouth (Mt. Batten)	cq rrm	oyrr dm	orRm R	orpr b	56	44	40	15	<8.00	10	<21.00	0.0
Portland Bill	cRRm	oRRm	orr m	oRRc	56	45	.	7	<8.00	8	<21.00	.
Southampton (Calshot)	cq rrm	orr qm	orr qm	orr qm cb	53	41	39	6	<8.00	10	<21.00	0.0
Dungeness	bbc q	cq rr	oq rrr	oq Rr	54	42	.	5	14.30	12+	<21.00	.
Guernsey	orr qor	oq rr q	oq rr	orc bc	54	48	42	6	11.00	24	<21.00	0.0

ISALLOBARS 12th November

POSITION NUMBERS



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	11th 10h	Scotia	SSW	7	od.	61	53
3	12th 2h	Dieppe	SW	8	orr	62	54

GENERAL INFERENCE.

A deep depression near Southern Norway is moving away eastward and there are no indications at present of any further disturbances. Fresh, squally, west to northwest winds will continue with showers of rain and hail in western districts but mainly fine weather in the East.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 12th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind westerly, moderate or fresh; mainly bright; rather cold, ground frost at night.	None issued
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind between west and northwest, fresh or strong, squally, moderating; bright intervals but showers of rain, hail or sleet; rather cold, ground frost at night.	
10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man	As 4 - 9.	
13A. W. Scotland 13B. NW. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind between west and northwest, moderate or fresh; bright intervals but wintry showers, with snow on hills; rather cold, ground frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 9.	

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

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

SYNOPTIC CHART FOR 7h. TUESDAY, 12TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

"SAMARIA"

L O W.

H I G H.

Barometer Rising.

Barometer Falling Generally.

Briskly.

EXPLANATION.

ISOBARS.—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 clouded. ◕ sky more than ½ clouded. ● overcast sky. ▽ rain falling. ≡ snow & hail. ≈ fog or mist. ϟ thunder. ⚡ thunderstorm.

WIND DISTURBANCE.

ISELINES.—Barometric change from 1 to 1.7 in half millibars is entered to indicate the wind for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. TUESDAY, 12th NOVEMBER 1929. No. 316.

Observations at 1h. G.M.T. 12th

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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	34	966.2	+12	W'N	5	cr,c	38	85	7	1500	Nb	10	-	10
Stornoway	30	978.1	+1	NW	4	b-	•	•	8	•	•	•	•	2
Wick	82	973.6	+5	W	4	bc	36	97	8	1500	CuNb	4	-	4
Tiree	33	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	83	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	81	984.1	0	NW	5	bc|ph	43	85	8	2500	CuNb	3	-	3
Renfrew	38	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh(Inchkeith)	100	979.8	0	WSW	6	b	40	86	8	-	-	0	ACu	1
Lenchars	38	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	796	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	981.1	0	W	2	0	42	85	8	1500	St	10	-	10
Blacksod Point	18	989.6	+1	W	6	bc	43	66	8	•	CuNb	7	-	7
Donaghadee	46	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	987.9	+2	WNW	6	c-	46	75	8	1500	St	9	-	9
Liverpool (Bidston)	138	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	39	981.1	-1	N'W	6	or+	43	97	7	2500	Nb	10	-	10
Birmingham(Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	250	982.5	-2	NW	6	oRR	42	92	6	800	Nb	10	-	10
Gorleston	14	982.5	-8	SW'S	7	or	50	97	6	800	Nb	10	-	10
Valentia(Cahirciveen)	30	986.2	+3	NNW	7	bc|R	48	92	8	•	CuNb	7	-	7
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke(St.Ann's H.)	150	983.3	+5	NW	4	cr,r,	46	85	8	800	CuNb	10	-	10
Ross-on-Wye	228	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester(Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	267	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	18	•	•	•	•	•	57	•	•	•	•	•	•	•
Croydon	344	985.7	-12	SW	6	or,r,	57	92	6	450	Nb	10	-	10
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	560	988.6	-10	S'W	8	orr	64	97	6	800	Nb	10	-	10
Scilly (St. Mary's)	163	996.7	+6	NNW	7	cr,r,	47	97	7	2500	Nb	9	-	9
Falmouth (Pendennis)	300	992.5	-4	NW'N	6	oR-	48	92	6	2500	Nb	10	-	10
Plymouth(Mt.Batten)	88	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	983.5	-15	SW	9	ORR	57	97	5	800	St	10	-	10
Southampton(Calshot)	10	986.3	-14	W	8	orr	67	92	5	450	Nb	10	-	10
Dungeness	20	985.9	-15	SW	9	orr	64	97	4	1600	Nb	10	-	10
Guernsey (St.Peter Port)	173	993.0	-14	SW	6	orr	57	97	5	800	Nb	10	-	10

Observations at 7h. 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	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sun 0-1
Lerwick	971.0	+6	WSW	2	bc|p	38	75	8	1500	Cu	6	-	6	•
Stornoway	978.9	+2	NW	3	bc	38	66	7	4000	CuNb	4	ACu	5	2
Wick	977.3	+3	WNW	3	bc	34	92	8	1500	CuNb	4	ACu	6	4
Tiree	983.8	+2	NW	5	c|pr,	42	75	8	2500	CuNb	7	Ci St	8	6
Nairn	980.2	•	W	2	c	36	85	8	1500	CuNb	8	-	8	•
Aberdeen	980.0	+2	WSW	3	b	35	75	8	2500	CuNb	1	Ci	2	1
Malin Head	988.0	+3	WNW	6	bc|ph	42	85	8	2500	CuNb	6	ACu	7	6
Renfrew	986.2	+4	SW	3	cr,	36	85	7	1500	Nb	9	-	9	•
Edinburgh(Inchkeith)	984.3	+4	WSW	5	bc	37	92	7	800	St	2	ACu	3	2
Lenchars	982.6	+4	WSW	3	bc	33	85	8	2500	Cu	1	ACu	3	•
Eskdalemuir	985.6	+5	W'S	3	bc	34	92	7	2500	StCu	4	-	4	•
Tynemouth	984.1	+3	W	2	bc	37	92	7	2500	Cu	4	Ci	5	2
Blacksod Point	993.8	+3	W	5	bc|PH	44	65	8	•	CuNb	6	-	6	7
Donaghadee	988.0	+4	WSW	3	c|pr,	37	85	7	4000	Cu	8	-	8	2
Birr Castle	995.0	+4	W	2	bc|pr,	38	92	7	2500	CuNb	4	-	4	1
Holyhead	991.1	+4	WNW	7	c	44	75	8	1500	Cu	3	-	3	•
Liverpool (Bidston)	988.4	+3	W'N	6	c|ph	40	85	8	800	CuNb	3	-	3	•
Chester (Sealand)	989.0	+4	W	4	b	41	75	8	4000	CuNb	2	-	2	•
Harrogate	987.4	+3	W	3	ber	35	97	9	2500	Nb	3	-	3	4
Spurn Head	987.0	+3	W	4	bc	40	97	7	4000	StCu	3	Ci St	4	•
Birmingham(Edgbaston)	992.1	+4	WSW	4	b	38	85	8	2500	Cu	1	-	1	1
Cranwell	989.6	+4	SW'W	4	bc-	38	92	7	2500	StCu	4	-	4	4
Gorleston	989.3	+6	W	3	o	39	92	7	2500	Nb	10	-	10	•
Valentia(Cahirciveen)	989.9	+3	W'N	5	ch(r)	45	75	8	2500	CuNb	8	-	8	7
Roches Point	988.9	+3	W	3	bc	41	92	8	2500	CuNb	6	-	6	4
Pembroke(St.Ann's H.)	994.1	+4	WNW	4	c|p	45	65	7	800	CuNb	7	Ast	9	•
Ross-on-Wye	993.2	+4	W	3	b	41	75	8	4000	Cu	2	-	2	•
Leafield	992.6	+4	WSW	3	b	38	85	8	4000	StCu	2	-	2	•
Winchester(Worthy Dn.)	994.0	+6	WSW	3	b	41	85	8	4000	StCu	1	-	1	•
S. Farnborough	994.6	+8	WSW	3	b	40	92	8	2500	StCu	1	-	1	•
London (Kew Obsy.)	994.4	+9	SW	2	b-	42	92	5	2500	StCu	2	-	2	•
Croydon	993.9	+8	W'S	4	bc-	41	92	7	2500	StCu	3	Ast	4	•
Shoeburyness	993.2	+11	W	3	bc|r	41	92	6	4000	CuNb	2	ACu	6	3
Clacton-on-Sea	991.7	+13	WNW	4	c	40	92	7	2500	Cu	8	-	8	•
Felixstowe	991.9	+11	W'S	4	c	40	92	7	800	StCu	7	Ast	10	•
Lympne	993.9	+12	W	3	c|r	40	92	8	4000	StCu	6	Ast	9	•
Scilly (St. Mary's)	1000.9	+3	NW	7	bc|PR	45	75	8	4000	CuNb	6	-	6	7
Falmouth (Pendennis)	1000.0	+4	W'N	6	bc|PR	46	65	7	4000	CuNb	7	-	7	3
Plymouth(Mt.Batten)	998.3	+6	W	5	c|p	45	75	8	2500	CuNb	9	-	9	5
Portland Bill	996.5	+9	W	6	o-	47	75	8	800	St	10	-	10	3
Southampton(Calshot)	996.1	+9	W'N	3	b	42	85	8	2500	StCu	2	-	2	1
Dungeness	993.6	+12	NW	3	c|r	43	92	8	4000	StCu	8	-	8	4
Guernsey (St.Peter Port)	1001.0	+8	WNW	4	bc	49	65	8	2500	StCu	4	-	4	1

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 10th to 9h. 11th. °F.	Temperature. Max. 9h. 10th to 9h. 11th. °F.	Rainfall.† Night 17h. 9th. to 9h. 11th. mm.	Rainfall.† Day 9h. 10th to 17h. 11th. mm.	Sunshine. Sunrise to Sunset. 11th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cr,	r,c	37	55	Trace	1	0.0
Douglas (I. o. M.)	oRH	oqiR	41	54	7	9	0.0
Llandudno	rqc	crqo	45	60	4	5	0.0
Colwyn Bay	roror	oco	43	62	2	4	0.0
Rhyl	cr	cq	43	61	1	3	0.0
Wallasey	orro	c	42	59	1	1	0.0
Southport	rro	oro	*42	57	5	7	0.0
Blackpool	orq	orqo	44	55	5	8	0.0
Morecambe	rr	rrc	41	55	10	23	0.0
Ilkley	orc	cro	39	56	3	4	0.0
Claethorpes	oro	o	36	52	-	1	0.0
Mablethorpe	om,	oirm,	38	51	-	3	0.0
Skegness	bcopr	prc	36	51	-	3	0.0
Aberystwyth	rr	rror	46	55	8	6	0.0
Bath	crr	qrr	41	55	2	10	0.0
Cheltenham‡	oqir	dro	41	53	-	2	0.0
Leamington Spa	oq	or	38	53	-	2	0.0
Lowestoft	bccor	odrd	37	50	-	2	0.0
Harwich & Dovercourt	dlc	ocr	36	50	Trace	2	0.0
Maldon	c	crc	37	52	-	2	0.2
Ilfracombe	rr	rr	46	57		16	0.0
Bude	drdr	drdr	44	55		11	0.0
St. Ives	rr	rr	44	58		16	0.0
Penzance	orr	orr	45	57		15	0.0
Paignton	orrq	oRqrr	44	56		8	0.0
Torquay	opr	oRqrr	45	56		9	0.0
Jersey	rqc	rqc	47	54	0.3	3	0.0
Weymouth	cpr	rqpd	45	55	-	7	0.0
Bournemouth	rr	rr	43	53	-	11	0.0
Ventnor	oud	or	42	53	-	8	0.0
Portsmouth (S'thsea)	oir	orr	44	54	-	7	0.0
Bognor Regis	rr	rr	43	54	-	8	0.0
Littlehampton	cer	cr	35	57	-	8	0.1
Worthing	cor	or	39	54	-	8	0.0
Brighton	bcr	r	43	54	-	6	0.0
Eastbourne	bcor,	rorrq	42	54	Trace	4	0.5
Hastings	cbcc	cord	38	54	Trace	3	0.6
Folkestone	ycq	orr	37	54	-	1	1.3
Dover	bcc	cor	42	55	-	2	2.2
Deal	bcq	orr	38	54	-	4	0.2
Tunbridge Wells	coor	oror	37	52	-	1	1.4
Ramsgate	bcc	cod	39	53	-	1	2.0
Margate	bcc	cr	39	54	-	1	0.3
Southend	bcor	or	39	52	Trace	1	0.2

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

* Information not usually received.

† See footnote page 1.

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

§ For code see page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24828. WEDNESDAY, 13th NOVEMBER 1929. Page 1.

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

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	1740	+4	WSW	2	c|p	37	75	8	1500	CuNb	8	-	8	•
Stornoway	1810	+1	W	4	bc|s	38	92	7	4000	CuNb	4	CiSt	6	•
Wick	1799	+3	W	4	c|prs	35	92	8	1500	Nb	7	CiSt	9	•
Tiree	1786	+3	NW'W	6	c|PR	43	75	7	2500	CuNb	8	CiCu	9	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1827	+2	WSW	3	b	44	55	8	2500	CuNb	1	ACu	2	0
Malin Head	1902	+2	WNW	4	ch(r)	40	97	8	2500	CuNb	8	-	8	•
Renfrew	1884	+2	WSW	3	c|ro	42	75	6	2500	CuNb	9	-	9	2
Edinburgh (Inchkeith)	1859	+1	SW	4	bc	42	75	8	800	St	2	ACu	6	•
Leuchars	1849	+2	WSW	5	bc	43	75	8	4000	CuNb	1	ACu	3	2
Eskdalemuir	1886	+1	WSW	5	bc	35	85	8	1500	StCu	3	ASt	6	2
Tynemouth	1881	+2	W	3	bc	43	75	8	2500	Cu	4	-	4	•
Blackpool Point ...	1995	0	W	4	bc|PH	42	65	8	•	CuNb	4	ACu	6	•
Dunaghadee	1990	+2	W	3	bc	42	75	8	4000	Cu	4	-	4	•
Birr Castle	1996	0	WNW	1	bc+	42	75	8	2500	CuNb	5	-	5	•
Holyhead	1982	+3	W'N	6	bc+	45	75	8	2500	Cu	6	Ci	7	1
Liverpool (Bidston) ...	1993	+2	WNW	7	bc|PH	44	65	8	1500	CuNb	6	-	6	•
Chester (Sealand) ...	1993	+3	W	5	bc-	46	65	8	2500	CuNb	3	Ci	4	2
Harrogate	1991	+2	W	4	bc	39	85	8	2500	Nb	4	CiCu	6	•
Spurn Head	1990	+1	W	5	bc	42	92	7	4000	Cu	4	CiCu	5	•
Birmingham (Edgbaston)	1995	+2	W	4	bc|p	44	65	8	2500	Cu	6	-	6	2
Cranwell	1993	+3	W'S	5	bc|r	38	85	7	2500	Nb	2	Ci	7	2
Gorleston	1998	+3	W	4	c	45	85	6	4000	Cu	8	-	8	•
Valentia (Cahirciveen)	1994	-3	SW'W	5	c	45	85	8	1500	St	8	ASt	9	2
Roches Point	1001.2	-1	NW	2	bc	43	85	8	2500	CuNb	2	CiSt	7	•
Pembroke (St. Ann's H.)	1997	+1	WNW	5	c	47	75	7	4000	Cu	8	ACu	9	•
Ross-on-Wye	1996	+3	W'N	4	bc|r	43	65	9	4000	Cu	7	-	7	2
Leafield b|pro	1995	+2	W	5	b|c	44	65	9	5700	CuNb	1	CiSt	2	2
Winchester (Worthy Dn.)	1998	+2	W	4	bc	45	65	8	2500	Cu	2	ASt	3	1
S. Farnborough ...	1999	+1	W'S	4	bc	48	65	8	2500	Cu	6	-	6	2
London (Kew Obsy.) ...	1996	+2	W	4	bc	46	55	7	2500	Cu	6	-	6	2
Croydon	1997	+2	W	5	bc+	45	65	6	2500	Cu	7	-	7	2
Shoeburyness	1996	+1	WSW	3	bc+	45	75	7	5700	StCu	4	-	4	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1995	+2	WSW	5	c	47	55	7	2500	Cu	8	-	8	2
Lympne	1996	+1	SW	5	bc+	47	55	9	2500	Cu	6	-	6	2
Scilly (St. Mary's) ...	1007	0	WNW	7	bc	48	75	8	4000	Cu	4	CiSt	5	•
Falmouth (Pendennis)	1001	0	W'N	6	bc	49	65	8	4000	CuNb	4	Ci	5	•
Plymouth (Mt. Batten)	1000	0	W	5	bc|p	48	55	8	4000	CuNb	5	-	5	2
Portland Bill	1998	+1	WNW	6	c+	48	65	8	1500	CuNb	8	-	8	•
Southampton (Calshot)	1998	0	NW'W	4	bc|pr	45	75	9	2500	CuNb	3	Ci	4	2
Dungeness	1997	+1	NW	4	bc	49	65	8	4000	Cu	4	-	4	•
Guernsey (St. Peter Port)	1003	+1	W	3	c|PH	47	85	7	2500	StCu	8	-	8	•

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

Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	24h.
1752	+1	SW	32	c|p	37	85	8	1500	CuNb	8	-	8	•
1828	+3	W	2	bc-	37	85	7	4000	Cu	3	ASt	4	1
1814	+3	W	4	c	35	92	8	1500	CuNb	5	CiSt	8	4
1874	+2	NW	6	bc|p	42	65	7	4000	CuNb	7	-	7	6
1827	•	WSW	5	bc	37	75	8	1500	CuNb	7	-	7	•
1845	+3	SW	3	b	36	75	6	-	-	0	ACu	1	0
1915	+2	NW	6	ch(r)	42	85	7	2500	CuNb	8	-	8	6
1899	+2	W	3	ors	36	92	6	800	Nb	10	-	10	•
1885	+2	SW	4	bc	37	92	7	800	St	3	-	3	1
1862	+2	WSW	4	b	35	85	8	4000	Cu	1	-	1	•
1908	+3	SW	4	bc	33	97	7	1500	St	6	-	6	•
1896	+2	W	2	bc|r	37	92	7	2500	Cu	6	-	6	2
1957	0	W	4	bc|PR	42	65	8	•	CuNb	6	-	6	7
1920	+3	W	2	bc	38	85	8	4000	StCu	2	ACu	6	1
1964	0	SSW	1	c	38	85	7	4000	StCu	9	-	9	•
1957	+1	W	5	bc	44	75	8	2500	Cu	8	-	8	5
1934	+2	W	5	bc|p	42	65	8	1500	CuNb	6	-	6	•
1944	+2	SW'S	3	bc|r	40	75	6	1500	CuNb	4	-	4	•
1932	+1	SSW	2	b	37	85	7	-	-	0	CiSt	1	•
1932	+2	W	4	bc-	40	92	7	4000	StCu	2	CiCu	3	3
1973	+1	WSW	4	bc	39	85	8	-	-	0	Ci	1	•
1960	+4	SW'W	1	b-	36	85	6	2500	StCu	1	-	1	•
1964	+3	WSW	2	b-	39	85	6	4000	Cu	1	-	1	0
1980	0	W	2	c|pr	44	85	8	1500	St	9	-	9	5
1988	-2	NW	3	bc	44	85	8	2500	CuNb	4	-	4	2
1972	0	WNW	4	bc-	46	85	8	2500	Cu	7	-	7	4
1977	+1	SW	2	b	40	75	8	4000	Cu	1	Ci	1	•
1979	+2	SW	2	b-	36	85	8	5700	StCu	1	-	1	•
1999	+2	SSW	3	bc	37	85	8	2500	Cu	1	Ci	3	•
1989	+3	WSW	2	b	39	85	8	-	-	0	Ci	1	•
1992	+2	SW	2	b	41	85	5	-	-	0	-	0	•
1992	+2	WSW	3	b-	41	75	6	2500	StCu	1	-	1	•
1987	+2	SW	2	b	41	75	7	-	-	0	ASt	2	•
1981	+3	W	3	bc	42	75	7	2500	CuNb	3	-	3	3
1979	+3	SW	3	b	42	75	8	-	-	0	-	0	3
1991	+3	SW	3	b	40	75	6	-	-	0	-	0	•
1002	-2	W'N	5	bc	47	75	8	4000	CuNb	7	-	7	6
1009	-1	WSW	4	bc	44	85	8	4000	CuNb	6	-	6	2
1008	0	WSW	4	cr	45	75	8	2500	CuNb	8	-	8	2
1987	+1	W	5	bc	48	65	8	1500	CuNb	6	-	6	5
1003	+2	W'N	3	b-	42	65	8	4000	CuNb	1	-	1	3
1991	+3	W	3	b-	44	75	8	-	-	0	ASt	2	3
1030	0	W	3	bc|PH	48	75	8	4000	StCu	6	-	6	5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	bbc	bcbm	bwfx	47	30	23	-	-	6.3	*	*	1
Croydon	244	bc2o	bc2o	bnc x	47	32	29	-	-	6.2	*	*	3
Greenwich (Royal Obsy.) ...	149	bbc c	c b	bxc f	48	30	20	-	03	5.5	51	89	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	3.8	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	49	32	29	-	-	4.9	67	96	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	4.7	•	•	•
Camden Square...	110	bc	c	•	46	34	•	-	-	•	98	•	•
Kensington Palace	80	bbc	bc	•	47	32	23	-	-	• (At 18h.) 7.4	96	•	•
Hampstead Observatory ...	460	•	•	•	46	32	32	Tr	all	5.4	•	92	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
Record defective.			

Kew Observatory

Max.	Time.	Min.	Time.
0.4	13h 7h	0.1	12h 10h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 12h 17m 15s to 13h 6m 15s

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	12.3	93
δ Ursae Minoris	13.0	9.48	75

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 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, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.13	11.37	16.1
	7.15	11.38	16.0
Greenwich	7.16	11.44	16.12
Wick	7.17	11.44	16.11
	7.58	11.57	16.55
Valentia	8.0	11.57	15.53
	7.58	12.25	16.52
	8.0	12.25	16.50

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. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). { before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is combined, wherever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—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 } 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.

¼ 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.	13¾ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

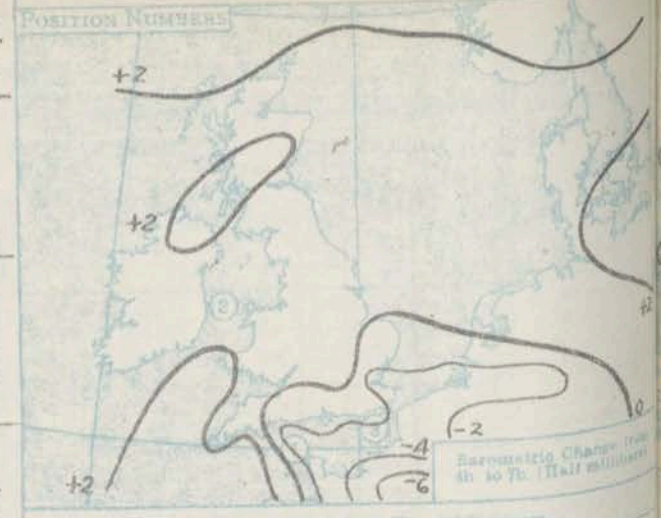
SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h. 18h. 12th	18h.-18h. 12th	18h. 12th to 1h 13th	1h.-7h. 13th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL. Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN 12th Hour.
Lerwick	bccphrs	cpho	cp.hrq	cphr	40	37	.	4	<8.00	16	<21.00	0.7
Stornoway	bcphrs	cprs.bc	cphc	h-rh	40	34	.	1	<8.00	5	<21.00	0.3
Wick	bcprs	cprsc	cpsrs	cprsc	39	34	.	2	11.00	2	<21.00	.
Tiree	cPR	cpr	HRq	pHrq	52	37	32	1	9.00	4	<21.00	2.6
Nairn	cprsbc	bccbc	bcprsx	bcx	38	32	.	0.2	9.00	0.4	<21.00	2.8
Aberdeen	bby	b	bz.	bbcx	46	32	24	-	-	-	-	6.4
Malin Head	hccihr	cihr	bclhr	bclhr	44	39	.	3	<8.00	4	<21.00	1.6
Renfrew	prsprbc	prhprq	csbcHb	bbc.x	44	32	26	4	<8.00	2	<21.00	2.1
Edinburgh (Inchkeith)	bbc	bbc	bcb	b-bc	43	35	33	-	-	-	-	4.8
Leuchars	bcxbc	bc	bx	bx	43	28	20	-	-	-	-	6.5
Eskdalemuir	bcphs	bcps.bc	bccism	cbc	37	30	27	1	9.00	3	<21.00	1.4
Tynemouth	bc	bcoir	bc	bc	46	35	28	0.4	17.30	-	-	.
Blacknod Point	phq	cq	phq.bc	phq	45	38	.	2	.	2	.	.
Donaghadee	probc	bc	bcc	prbc	44	32	.	Tr	<8.00	1	2.30	.
Birr Castle	bcphr.	cp.bc	cr.b	bx	44	30	17	0.3	<8.00	Tr.	<21.00	3.4
Holyhead	cbc	bc	bccbc	bcu	47	42	39	-	-	-	-	4.8
Liverpool (Bidston)	cqprh	cphrl	bcphr	pqhrh	44	36	32	1	<8.00	6	<21.00	1.3
Chester (Sealand)	bcprsPRH	pCbcm.	bcb	cPrh	46	34	25	2	<8.00	1	3.30	4.6
Harrogate	ircbc	bcbp	bcb	bx	41	33	27	0.3	<8.00	-	-	2.6
Spurn Head	cpr.bc	bc	bcc	cbc	43	35	.	Tr	9.00	-	-	2.7
Birmingham (Edgbaston)	bbc	bcpr.	bc	bcbx	45	33	29	0.1	14.30	-	-	6.9
Cranwell	bccipr	bcbc	bcm.	bm.x	43	32	29	0.5	11.00	-	-	3.0
Gorleston	ocq	cbcpr.q	bx	bm.x	46	32	29	0.2	14.30	-	-	6.0
Valentia (Cahirciveen)	cphrqbc	cphcp.	crs PR	cbccPRbc	49	40	35	1	<8.00	4	<21.00	2.2
Roches Point	bcp.bc	bcp.bc	bccw	c	46	38	.	1	<8.00	Tr.	-	.
Pembroke (St. Ann's H.)	cphq	cphq	bcpch	bch	48	41	.	Tr	9.00	0.4	24.00	4.2
Ross-on-Wye	bcbbcp.	bcvb	bm.	bm.x	47	31	23	0.1	12.30	-	-	5.8
Leafield	bcpr.	bcjp	b	bbcx	44	32	21	0.1	9.00	-	-	6.6
Winchester (Worthy Dn.)	bc	bc	bcc	cx	47	29	21	-	-	-	-	6.9
S. Farnborough	bvbc	bcbvb	bbcw	bccx	48	29	20	-	-	-	-	7.5
London (Kew Obsy.)	bbc	bcbm.	bm.w	bmwbfx	47	30	23	-	-	-	-	6.3
Croydon	bcz.	bcz.bz.	b	bm.cx	47	32	29	-	-	-	-	6.2
Shoeburyness	bcrn.	brn.	bm.	cm.	47	29	20	Tr	<8.00	-	-	5.3
Clacton-on-Sea	xbc	bccqrhc	bcbm	bmbcx	46	35	29	0.2	14.30	-	-	5.4
Felixstowe	cbcbz.	cbcpr.b	bwx	bxcm.	47	32	29	Tr	14.30	-	-	6.5
Lympne	cbcbbcy	bcvybbm	b x	bxc	48	34	25	-	-	-	-	7.1
Scilly (St. Mary's)	cpbc	bcp	cPbc	bcp	49	42	.	1	<8.00	4	<21.00	3.6
Falmouth (Pendennis)	bcph.q	bccPq	bccr.	cr.bR	49	39	.	3	<8.00	11	<21.00	4.9
Plymouth (Mt. Batten)	cprqbc	ybccqpr	crb	crprb	50	39	34	0.5	<8.00	0.4	<21.00	3.4
Portland Bill	c	c	c	c	50	41	.	-	-	Tr.	6.30	.
Southampton (Calshot)	bccpr.q	bcb	bwm.	bwbccatm	47	36	30	0.1	12.30	Tr.	6.30	7.1
Dungeness	cbbc	bbcb	blbc	bccprc.	49	38	.	-	-	1	3.30	.
Guernsey	cphrc	cphrc	ophR	phror	50	43	35	6	9.00	17	<21.00	3.0

ISALLOBARS

POSITION NUMBERS

13th November 1929



Observations from Cross Channel Steamers.

Position	Date and Time	Steamship.	Wind. Direc.	Force.	Weather.	Temp. Air	Sea.
2	12th 10h	Scotia	W	5	-	47?	51
1	" 13h	St. Helier	WNW	6	bc-	51	56

GENERAL INFERENCE.

A depression off Western Norway is filling up and a secondary over France is moving eastward. Rain will occur at first near the southeast coast but otherwise there will be bright periods but local wintry showers chiefly in northwest districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 13th November, 1929.	Further Outlook.
1. S.E. England	Wind variable, becoming northwesterly, light or moderate; rain at first near coast, then fine; rather cold, ground frost at night.	None issued.
2. E. England		
3. E. Midlands	Wind west to northwest, light or moderate; mainly fine but a few scattered showers; rather cold, ground frost at night.	
4. W. Midlands		
5. S.W. England		
6. South Wales	Wind northwest, moderate, fresh locally at first; bright intervals and wintry showers, with snow on hills, rather cold, ground frost at night.	
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England	As 2 - 3.	
11. S.E. Scotland		
12. S.W. Scotland & Isle of Man	As 4 - 9.	
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		

Meteorological Office; Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

SYNOPTIC CHART FOR 7h. WEDNESDAY, 13TH NOVEMBER, 1929.

HIGH 1000 Bar. 998
0 30 Fine +3
6 27 Show +3
Rising
0 36 Show. +4
24 27 Fine +1
Slowly.
LOW.
24 37 Ocast. +3
Barometer
15 43 Hail
21 41 Showers.
Barometer
21 39 Fine
Rising
50 43 Showers.
35 Fine
Slowly.
10 37 Hail showers.
15 35 Cloudy.
Steady
10 34 Fine
21 41 Fine
or
5 33 Fine
5 35 Fine
15 42 Hail Showers.
2 33 Fine
21 43 Fine
10 36 Fine
10 34 Fine
5 33 Fine
5 36 Thunderstorm.
HIGH
15 44 Fine
15 43 Fine
Rising
4 33 Fog.
Barometer
996
10 42 Rain
10 36 Cloudy.
24 45 Fine
10 43 Rain
994
15 41 Rain
Falling.
15 36 Cloudy.
10 45 Cloudy.
Slowly.
LOW.
10 O'cast.
0 36 Fog.
HIGH
2 34 Fine
1006
15 46 Fine
15 41 Rain
Briskly.
10 48 Fine
21 50 Rain
10 46 Rain
0 46 Cloudy.

1000 1002 1004 1006

EXPLANATION.
WIND. Letters are drawn for observed two millibars. 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. ≡ fog. ≈ mist. ⚡ thunder. ✕ hail. ▲ rain falling. ∞ thunderstorm.
SEA DISTURBANCE. Smooth. Rough. Very Rough.
ICELAND barometric change from 8 a.m. to 8 p.m. in half millibars is entered beneath the wind for weather.

H I G H.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. WEDNESDAY, 13th NOVEMBER 1929. No. 317.

STATIONS.	Height above M.S.L., in feet.	Observations at 1h. G.M.T. 13th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 13th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	
Lerwick	34	976.0	+1	SW	4	c|p	38	85	8	1500	CuNb	6	ASt	9	977.2	+2	SW	4	ch(r)	43	85	8	1500	CuNb	8	-	8	2
Stornoway	30	988.5	+4	NW	2	c	*	*	7	*	*	*	*	8	989.1	+2	WNW	3	bc|PH	37	75	7	4000	CuNb	5	-	5	4
Wick	81	984.5	+3	W	4	c|prs	36	92	8	1500	CuNb	6	CiSt	8	986.1	+1	W	4	c	35	85	8	1500	CuNb	6	CiSt	9	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	992.6	+1	NNW	5	c|p	41	75	7	1500	Nb	9	ASt	10	
Nairn	22	*	*	*	*	*	*	*	*	*	*	*	*	*	990.5	*	W	1	bc	33	85	8	1500	St	6	-	6	0
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	990.1	+2	WSW	3	bc	34	75	8	2500	CuNb	1	Ci	3	
Malin Head	61	993.9	+2	NW'N	6	bc|hr	42	85	7	2500	CuNb	7	-	7	995.5	+2	NW'W	5	bc|p	41	86	7	2500	CuNb	7	-	7	6
Renfrew	35	*	*	*	*	*	*	*	*	*	*	*	*	*	993.8	+2	WSW	2	bc	33	97	6	4000	StCu	3	-	3	1
Edinburgh (Inchkeith)	100	989.9	+2	WSW	4	bc	37	92	7	-	-	0	ACu	3	990.9	+1	WSW	4	bc	36	92	7	800	St	3	-	3	
Leuchars	59	*	*	*	*	*	*	*	*	*	*	*	*	*	991.7	+2	WSW	3	b	32	92	8	2500	CuNb	<1	ACu	1	
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*	992.8	0	W	4	bc	32	92	7	1500	St	5	-	5	2
Tynemouth	87	991.4	+1	W	2	bc	38	85	7	2500	Cu	4	-	4	992.3	+1	WSW	2	bc	36	97	6	2500	Cu	4	-	4	
Blacksod Point	18	1000.0	+2	W	4	bc	42	65	8	*	CuNb	5	-	8	1000.3	+1	W	4	bc|ph	42	66	8	*	CuNb	5	-	5	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	994.3	0	W	2	bc	36	92	8	4000	CuNb	4	-	4	1
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	999.5	+1	W	1	b	33	97	8	-	-	0	-	0	
Holyhead	23	996.4	0	NW'W	5	bc	44	85	8	2500	Cu	5	-	5	997.4	+1	NW	6	bc	43	75	8	1500	Cu	5	-	5	4
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	996.3	+1	NW	6	c|K|h	40	75	7	1500	CuNb	8	-	8	
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	996.1	+1	W	2	ch(r)	39	86	7	2500	CuNb	8	-		
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	995.7	0	SW	3	b	33	92	8	4000	StCu	1	-	1	2
Spurn Head	29	994.5	0	W'S	4	c-	37	85	6	800	St	6	CiCu	8	994.8	0	W	3	bc	36	97	6	4000	Cu	3	Ci	4	
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	997.8	0	WNW	3	b	34	92	5	-	-	0	Ci	1	3
Cranwell	336	996.3	0	SW	3	b-	34	85	6	-	-	0	-	0	996.2	0	WSW	3	bc+	33	92	6	4000	StCu	3	-	3	
Gorleston	14	997.9	0	SW'W	2	b	35	85	6	-	-	0	-	0	996.8	-1	W'S	2	b	33	85	5	-	-	0	ASt	2	0
Valentia (Cahirciveen)	30	998.9	+2	W'N	5	bc|hr	45	92	9	*	CuNb	4	-	4	1002.0	0	WNW	4	bc	44	75	8	2500	Cu	7	-	7	6
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.9	+1	NW	4	c	39	92	8	2500	CuNb	8	-	8	4
Pembroke (St. Ann's H.)	150	997.0	+1	NNW	2	c|p	44	85	8	450	CuNb	7	ASt	10	998.3	+3	NW	4	bc-	43	85	8	1500	CuNb	5	-	5	1
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*	997.7	0	-	0	b	32	97	5	4000	StCu	<1	ASt	1	4
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	996.7	0	NW	2	bc	33	92	8	6700	StCu	3	CiSt		
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	997.7	0	-	0	c	33	97	8	4000	StCu	9	-	9	
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	996.8	0	-	0	c	31	97	6	6700	St	1	ASt	9	0
London (Kew Obsy.)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	997.1	0	-	0	ffb	33	97	3	-	-	0	-	0	
Croydon	244	998.6	-2	SSW	3	b	34	97	6	-	-	0	Ci	2	997.4	0	-	0	c+	33	97	6	4000	St	4	ASt	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	997.1	-3	NNW	1	c	32	97	5	4000	StCu	5	ASt	9	3
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	996.5	-2	WNW	2	bc	35	92	6	4000	Cu	4	-	4	
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	996.9	-1	WNW	1	c	34	97	5	4000	Cu	2	CiSt	9	0
Lympne	350	998.6	-1	SW	1	b	38	75	7	4000	CuNb	<1	Ci	1	996.0	-1	NW	2	c	39	92	8	6700	StCu	2	ASt	10	
Scilly (St. Mary's)	163	997.4	-2	N'W	6	bc	43	92	8	4000	CuNb	7	-	7	1000.9	+3	N	6	bc	45	75	8	4000	CuNb	6	-	6	
Falmouth (Pendennis)	200	998.0	-2	NW	2	cr.r.	42	92	7	2500	Nb	6	ASt	10	999.3	+1	N	4	bc-	43	75	8	4000	CuNb	6	-	6	1
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	998.4	+2	NNW	3	b	39	85	8	2500	CuNb	2	Ci	2	3
Portland Bill	32	996.6	-3	S'W	2	bc+	46	65	8	1600	StCu	5	ASt	6	996.6	-2	N'E	3	cr.r.	42	85	7	1600	StCu	10	-	10	0
Southampton (Calshot)	10	998.3	-3	SE	2	bc	41	92	6	-	-	0	Ci	2	996.9	-1	N'E	3	od.	39	85	6	1600	St	10	-	10	0
Dungeness	20	999.1	-1	-	0	bc+	42	75	8	2500	Cu	2	ACu	4	996.1	-2	-	0	cr.r.	43	85	8	1500	Nb	10	-	10	5
Guernsey (St. Peter Port)	173	997.2	-7	W	2	c|hr	44	92	6	4000	StCu	10	-	10	996.2	+2	NNW	3	or-	43	92	6	1500	Nb	10			

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. 11th. to 9h. 12th. °F.	Rainfall.† Night 17h. 11th. - 9h. 12th. mm.	Rainfall.† Day 9h. 12th. - 17h. 12th. mm.	Sunshine. Sunrise to Sunset. 12th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bbc	bcc	33	43	-	Trace	5.9
Douglas (I. o. M.)	bc	bc	39	46	3	-	5.4
Llandudno	cpbc	bcc	42	46	20	0.3	4.4
Colwyn Bay	bcpcb	bbcc	41	47	19	0.3	5.0
Rhyl	rbch	bc	41	(49) 47	19	3	4.8
Wallasey	cihr	ihrcq	40	45	16	1	0.8
Southport	ocphr	cbcolr	40	47	12	3	2.0
Blackpool	orc	cphc	41	47	11	2	3.8
Morecambe	rrhrc	bcb	39	45	11	5	2.4
Ilkley	cpc	pc	35	40	11	1	1.7
Claethorpes	c	c	37	42	17	-	1.9
Mablethorpe	od.bc	bc	36	43	20	Trace	3.2
Skegness	rcprb	bc	36	44	16	Trace	4.1
Aberystwyth	rchbc	bc	42	47	28	Trace	4.0
Bath	b	bcbbc	42	49	8	-	5.8
Cheltenham	cbc	cbc	38	52	21	-	4.5
Leamington Spa	bbc	chbc	38	46	22	0.2	6.2
Lowestoft	rcbcb	bbcdb	38	46	14	Trace	6.5
Harwich & Dovercourt	rbc	bc	38	47	11	-	7.3
Maldon	rb	bc	40	48	14	-	6.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	ophc	cph	44	49	8	3	1.3
Bude	pbc	bbc	45	53	6	1	3.2
St. Ives	c	bcpc	43	53	11	1	0.0
Penzance	cbpr	cb	43	52	16	1	0.0
Paignton	orrqb	bcpob	40	51	16	Trace	6.7
Torquay	oRbc	bcpob	41	51	15	Trace	6.5
Jersey	rqcbc	rqbc	46	51	20	2	4.3
Weymouth	cb	bcb	43	50	11	-	5.0
Bournemouth	cb	cb	43	48	17	-	7.2
Ventnor	orb	b	42	48	15	-	8.9
Portsmouth (S'thsea)	b	bbcb	43	47	16	-	7.2
Bognor Regis	b	b	41	48	17	-	7.7
Littlehampton	bc	bc	42	[49]	19	-	7.7
Worthing	b	bc	42	49	20	-	7.5
Brighton	bcb	bc	43	48	20	-	7.2
Eastbourne	b	b	42	56	15	-	7.3
Hastings‡	bbcb	b	40	56	16	-	7.4
Folkestone	b	b	41	50	15	-	7.0
Dover	bbc	bcb	42	49	17	-	7.1
Deal	b	b	41	48	28	-	6.8
Tunbridge Wells	bbc	bbc	39	47	23	-	6.5
Ramsgate	b	bbc	41	48	11	-	6.1
Margate	b	bc	42	49	11	-	6.1
Southend	b	bbcb	40	47	9	-	5.6

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24829 Thursday 14th November 1929.

Observations at 15h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	980.5	+2	SW	4	bc jp	43	65	8	1500	C.Nb	4	Ci St	7	•
Stornoway	991.2	+2	WNW	4	bc	42	55	8	4000	C.Nb	4	A.Cu	6	•
Wick	989.4	+2	WNW	4	c/prs	38	92	8	1500	C.Nb	6	Ci St	9	•
Tiree	995.5	+2	NNW	4	bc jp	45	65	8	2500	C.Nb	6	-	6	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	992.4	+2	W	2	b	44	55	8	-	-	0	Ci	1	0
Malin Head	998.0	+2	NNW	4	c/lr/h	39	92	7	2500	C.Nb	9	-	9	•
Renfrew	996.6	+3	W	3	bc+	42	75	7	2500	Cu	7	-	7	•
Edinburgh (Inchkeith)	993.8	+1	WSW	4	bc	40	85	7	800	St	2	A.St	4	•
Leuchars	993.4	0	W'S	3	b	43	65	8	4000	C.Nb	1	A.Cu	1	•
Eskdalemuir	995.2	+1	WNW	3	bc	37	75	8	2500	St Cu	2	Ci	4	7
Tynemouth	994.5	+1	W	2	bc	40	75	6	2500	Cu	6	-	6	•
Blacksod Point	1001.9	+1	W	3	bc	45	55	8	•	C.Nb	5	-	5	•
Donaghadee	997.5	+1	WNW	3	bc	40	85	8	4000	St Cu	7	-	7	•
Birr Castle	1001.8	0	NW	2	b	44	75	8	4000	St Cu	2	-	2	•
Holyhead	999.0	0	WNW	6	bc	44	75	8	~~4000~~	~~Nb~~	~~6~~	-	6	1
Liverpool (Bidston)	996.8	+1	NW	4	c/ph	43	65	9	800	C.Nb	9	-	9	•
Chester (Sealand)	997.3	0	W'N	3	bc jp	42	75	7	2500	C.Nb	4	-	4	2
Harrogate	996.1	0	SW	3	b	40	75	8	4000	St Cu	2	-	2	•
Spurn Head	996.0	0	WNW	3	bc	43	75	6	1500	St	5	Ci	6	•
Birmingham (Edgbaston)	998.1	0	NW	3	b	43	75	6	2500	Cu	2	-	2	2
Cranwell	997.0	-1	W'S	3	mmbc	42	75	4	-	-	0	Cu	5	1
Gorleston	997.6	0	WNW	3	c+	39	97	5	-	-	0	A.St	10	•
Valentia (Cahirciveen)	1004.4	0	NW	4	bc	46	65	9	2500	Cu	5	-	5	2
Roches Point	1003.7	+1	NW	4	bc	44	75	8	2500	C.Nb	3	Ci Cu	4	•
Pembroke (St. Ann's H.)	~~1001.3~~ 999.7	0	NW	4	bc-	45	85	8	4000	Cu	6	-	6	•
Ross-on-Wye	998.4	+1	WNW	3	bc+	44	65	8	4000	C.Nb	2	Ci	3	2
Leafield	997.7	+1	NNW	35	bc	42	65	8	4000	C.Nb	1	Ci St	3	1
Winchester (Worthy Dn.)	998.2	0	NW'N	4	bc	43	65	8	4000	Cu	1	Ci	7	1
S. Farnborough	997.4	0	NW	1	c	42	75	7	-	-	0	Ci	9	1
London (Kew Obsy.)	997.5	0	N	1	c	41	85	5	-	-	0	A.St	10	1
Croydon	998.2	0	NW'N	2	ff o	39	85	2	220	St	10	-	10	2
Shoeburyness	996.0	-2	NW	1	0	39	92	6	1500	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	997.4	0	NNW	2	c	40	85	5	-	-	0	A.St	9	1
Lympne	995.6	-1	N'W	4	c	41	85	6	2500	St	9	-	9	2
Scilly (St. Mary's)	~~1000.2~~ 1002.2	+1	NW'N	5	bc jp	46	75	8	2500	C.Nb	7	-	7	•
Falmouth (Pendennis)	1002.6	0	W'N	3	bc+	44	75	8	4000	C.Nb	6	-	6	•
Plymouth (Mt. Batten)	1000.4	0	N	5	bc	47	55	9	4000	C.Nb	3	-	3	2
Portland Bill	998.7	0	N'E	4	bc-	47	65	8	2500	Cu	6	-	6	•
Southampton (Calshot)	998.2	+1	NW'N	4	bc-	44	65	7	4000	Cu	1	Ci	7	0
Jungaeus	995.4	-2	N	2	c/r	42	92	7	2500	St C.	10	-	10	•
Guernsey (St. Peter Port)	1000.0	+3	NW	3	bc-	47	65	8	2500	St Cu	6	-	6	•

Observations at 13h. 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. Heights Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-9
Lerwick	984.7	+6	WSW	3	bc jp	43	75	8	1500	C.Nb	4	A Cu	7	•
Stornoway	993.1	+3	WNW	2	bc-	38	75	8	4000	Cu	3	-	3	0
Wick	991.8	+4	WNW	3	c/prs	36	92	8	1500	C.Nb	5	Cu St	8	3
Tiree	997.7	+3	NNW	5	bc	42	75	8	4000	C.Nb	4	-	4	4
Nairn	994.2	•	WSW	1	bc-	35	75	8	4000	Cu	3	-	3	•
Aberdeen	994.8	+3	WSW	2	b	35	75	7	-	-	0	Ci	1	0
Malin Head	999.5	+3	WNW	4	bc jp	43	75	8	2500	C.Nb	3	-	3	5
Renfrew	998.1	+3	W	2	b-	34	92	7	4000	St Cu	1	-	1	•
Edinburgh (Inchkeith)	994.7	+2	W	3	b	39	85	7	800	St	2	-	2	1
Leuchars	996.0	+5	SW	2	b	32	92	7	4000	St Cu	1	-	1	•
Eskdalemuir	998.6	+4	S	1	b	30	85	8	2500	Cu	1	-	1	•
Tynemouth	997.0	+4	W	2	b	35	97	6	-	-	0	-	0	1
Blacksod Point	1002.1	0	W	3	bc	43	65	8	•	C.Nb	4	-	4	5
Donaghadee	999.4	+3	W	2	bc	36	~~97~~	8	4000	Cu	5	-	5	1
Birr Castle	1002.1	+1	S	1	b	36	92	8	4000	St Cu	2	-	2	
Holyhead	1000.7	+3	NW	6	bc	44	75	8	4000	Cu	7	-	7	5
Liverpool (Bidston)	998.2	+2	NW	5	bc/ph	41	75	8	800	C.Nb	7	-	7	•
Chester (Sealand)	998.3	+2	WSW	3	bc/PH	38	92	6	2500	C.Nb	5	-	5	•
Harrogate	998.5	+2	SW	1	b	32	97	7	-	-	0	A.Cu	1	•
Spurn Head	998.8	+2	NW'W	3	bc	40	85	6	800	St	6	-	6	1
Birmingham (Edgbaston)	1000.6	+3	W	2	b	37	85	6	-	-	0	-	0	•
Cranwell	998.9	+4	WSW	3	b	35	85	5	-	-	0	-	0	•
Gorleston	997.8	+1	WNW	2	c-	37	92	5	4000	Cu	5	A Cu	8	0
Valentia (Cahirciveen)	1004.7	+1	W'N	3	bc	45	75	8	2500	Cu	4	A Cu	5	4
Roches Point	1005.1	+2	NW	3	bc	41	85	8	2500	C.Nb	3	Cu Cu	4	1
Pembroke (St. Ann's H.)	1001.9	+3	NW	3	bc	44	85	8	2500	Cu	6	-	6	2
Ross-on-Wye	1000.7	+2	W	2	b	37	75	8	4000	St Cu	1	-	1	•
Leafield	1001.1	+2	NW	2	b-	34	85	8	4000	St Cu	1	Cu St	1	•
Winchester (Worthy Dn.)	1000.7	+4	W'N	2	b	33	85	8	-	-	0	Ci	1	•
S. Farnborough	999.6	+4	WNW	1	b-	36	85	7	-	-	0	Ci	1	•
London (Kew Obsy.)	999.6	+3	-	0	mmc	39	85	4	-	-	0	A.St	9	•
Croydon	999.6	+3	NW'N	1	mmc	37	92	4	-	-	0	Cu St	10	•
Shoeburyness	998.8	+1	NW	1	0	37	92	6	1500	St	10	-	10	•
Clacton-on-Sea	998.0	+2	N	3	c	38	85	6	4000	St C.	8	-	8	1
Felixstowe	998.4	+2	NW	3	c	38	85	6	2500	St Cu	5	A St	10	0
Lympne	997.6	+4	N'W	4	o/r	38	92	5	1500	St	10	-	10	•
Scilly (St. Mary's)	1004.2	+2	N'W	4	bc	44	65	8	4000	Cu	5	-	5	5
Falmouth (Pendennis)	1003.5	0	NW'N	2	bc	43	65	7	4000	C.Nb	5	-	5	0
Plymouth (Mt. Batten)	1002.7	+4	NNW	3	b/pr	41	75	8	2500	C.Nb	2	Ci	2	1
Portland Bill	1000.3	+3	NW	3	b-	42[3]	75	8	2500	St Cu	2	-	2	3
Southampton (Calshot)	1000.4	+3	WNW	3	b	38	75	6	-	-	0	-	0	0
Jungaeus	997.0	+4	N	2	c	39	92	7	1500	St Cu	10	-	10	3
Guernsey (St. Peter Port)	1002.2	+3	NW	3	bc-	46	65	9	2500	St Cu	4	-	4	4

85

LONDON OBSERVATIONS.

Day 7h-19h., Kew & Croydon. 9h-15h., Kensington. 9h-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperatures. Max. Day. °F.	Temperatures. Min. Night. °F.	Temperatures. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
		Hours ended 8a.			Yesterday.					Yesterday.	To-day.		
Kew	18	ofxcm	cm	bfxcm	42	32	21	-	Tr	0.0	•	•	5
Croydon	244	off	cmom	bfxm	41	32	25	-	-	0.0	•	•	5
Greenwich (Royal Obsy.)	149	cff	cfm	cobxcf	41	31	23	-	Tr.	0.0	72	84	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	44	31	27	-	-	0.0	75	91	•
Regent's Pk. (Botanic Gdns).	128	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	ofc	o	•	41	34	•	-	-	•	•	96	•
Kensington Palace	80	fco	o	•	42	32	24	-	-	•	(At 18h) 80.	94	•
Hampstead Observatory	452	•	•	•	40	28	20	Tr.	Tr.	0.0	•	84	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	1.7	13th 20h	<0.3	14th 6h
Kew Observatory	1.3	13th 9h.	0.2	13th 14h

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.0	6.32	50
δ Ursae Minoris	13.0	5.10	40

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Rare ground frozen (but less than 3 ins. deep).
4=Rare ground frozen (but more than 3 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13 h. and 18 h. 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.

Friday November 15, 1929.

Stations	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7 16	11 32	16 0
	7 17	11 32	15 59
Greenwich	7 14	11 44	16 11
	7 13	11 45	16 10
Wick	8 0	11 57	15 53
	8 3	11 57	15 51
Valentia	8 0	12 25	16 50
	8 2	12 26	16 49

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

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

‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

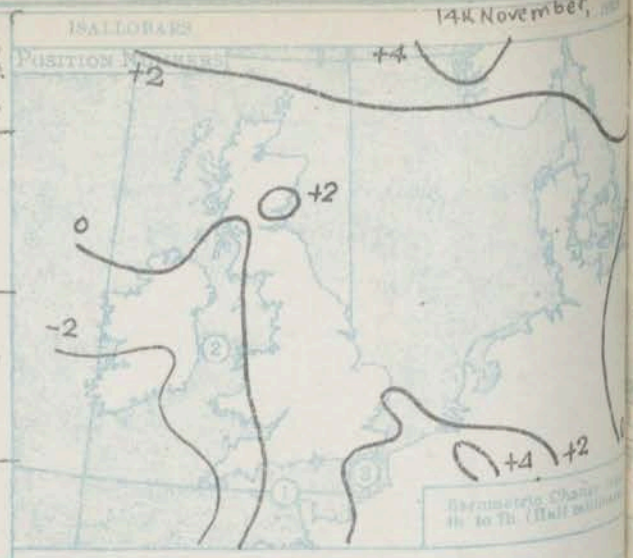
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond	31 m.

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 13th	WEATHER. 18h.-18h. 13th	WEATHER. 18h. 13th to 1h. 14th	WEATHER. 1h.-7h. 14th	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 13th Hours.
Lerwick	cbcphrq	bcphrq	bcphrq	bcephr	44	41	.	5	<8.00	2	<21.00	1.2
Stornoway	bcPH bc	bbc	b-bc	b-bc	42	33	.	1	<8.00	-	-	3.1
Wick	cprs	cprs	c	b-bc	40	33	.	1	9.00	-	-	
Tiree	Hcr	bcPR	bcpr.	bR	45	31	23	4	<8.00	1	22.00	1.9
Nairn	bc	bccbcx	bbcx	bc	39	31	.	-	-	-	-	5.8
Aberdeen	bcbby	b	b	bx	46	28	19	-	-	-	-	6.9
Kalin Head	bccih	ch.bcjp	bcjpchr	bcihr	44	35	.	2	<8.00	4	22.00	2.9
Renfrew	bcxcbc	bcbx	bx	bxorscx	42	27	21	-	-	1	2.30	4.7
Edinburgh(Inchkeith)	bcir.m.	bcb	bcbmm	bcm.m	41	34	32	Tr	<8.00	-	-	6.2
Lenchars	bxb	bbx	bxbx	bx bx	43	26	18	Tr	-	-	-	7.0
Eskdalemuir	bc	bcb	b	bxofx	38	19	15	-	-	-	-	4.8
Tynemouth	bc	bcb	b	bm.	41	31	27	-	-	-	-	.
Blacksod Point	phqbc	phbc	phc	pc	46	36	.	1	.	1	.	.
Donaghadee	pr.bc	bc	bcb	bbcx	41	31	.	0.2	<8.00	-	-	.
Birr Castle	b	bcr.b	bx	bxcr.c	44	29	17	Tr	15.30	0.1	4.30	6.6
Holyhead	bc	bcpr.	bcu	bcu	45	41	36	Tr	16.30	-	-	4.4
Liverpool (Bidston)	qcbcv	vcph.	cppc	cR p.	43	35	31	1	12.30	6	<21.00	2.53
Chester (Sealand)	cPRHq	cpr.cPH	bcPH	bcprhmx	44	31	23	5	<8.00	7	<21.00	2.1
Harrogate	bbc	b	b	bx	42	28	21	-	-	-	-	6.9
Spurn Head	bc	bc	bcx	bcx	44	34	.	-	-	-	-	6.3
Birmingham (Edgbaston)	b	bbcb	b	bx	44	30	21	-	-	-	-	5.8
Cranwell	bcxm.	bcz.bm.	bcbm	bofx	42	29	25	-	-	-	-	6.7
Gorleston	bccm.	cmm	cm.	cmoffx	41	31	30	-	-	-	-	0.0
Valentia(Cahirciveen)	cphbcv	bcvcph.	bccpbc	bccor.	47	37	31	2	9.00	2	<21.00	4.4
Roches Point	cbc	bc	bcbw	bccw	46	38	.	-	-	Tr.	-	.
Pembroke(St.Ann's H.)	bcq	bcq	bc	bccpr	46	40	.	-	-	0.1	3.30	6.6
Ross-on-Wye	b	bcb	b bx	bx	45	27	17	-	-	-	-	6.9
Leafield	bc	bcb	bx	bx	42	28	17	Tr	-	-	-	1.5
Winchester (Worthy Dn.)	c.cm.bc	bcb	b bx	bx	44	25	15	Tr	<8.00	-	-	3.4
S. Farnborough	cxm	cb	bw	bwxm.	42	26	16	-	-	Tr.	-	0.5
London (Kew Obsy.)	ofxcm	cm	bfx	bmxcmx	42	32	21	-	-	Tr.	-	0.0
Croydon	off	~~cmwm~~ ofcmom	bcfbx	bom.x	41	32	25	-	-	-	-	0.0
Shoeburyness	com.	bm.	c	bm.	40	31	27	-	-	-	-	0.0
Clacton-on-Sea	bccoym	oggm	cbcm	bcocm	40	32	28	-	-	-	-	0.0
Felixstowe	cmc.	cz.	cz.	cmw	40	33	31	-	-	-	-	0.0
Lympne	corm.c	crc.m.	ocbcm.	bcom.x	42	29	25	3	<8.00	-	-	0.0
Scilly (St. Mary's)	bcp	bcp	bcp	bcp.	48	41	.	1	9.00	2	<21.00	4.7
Falmouth (Pendennis)	bcp.	bc	cPH	bccp.	47	40	.	0.5	9.00	0.5	<21.00	6.2
Plymouth(Mt Batten)	bbcpcvy	cyvbpr.	bbcx	bxc	48	32	28	Tr	9.00	-	-	6.3
Portland Bill	cf.c.	cbc	bcb	bbc	47	37	.	Tr	<8.00	-	-	.
Southampton(Calshot)	odcm.c	bcb	bmbw	bwbxm.	46	30	24	Tr	<8.00	-	-	2.2
Dungeness	c.corrc	crr	cmcff	cffom	47	30	.	11	<8.00	-	-	.
Guernsey	phroc	oohbc	clorc	bbccp	48	32	28	4	<8.00	0.1	?	3.8



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	13th 10h	Scotia	W	6	bc	42	50
3	14th 2h	Dieppe	NNW	6	bc/r	46	

GENERAL INFERENCE.

A depression off Southern Ireland is moving E.S.E. and growing deeper, and will probably turn E.N.E. later. Rain will occur in the Southwest and probably spread over Southern England by tomorrow. Elsewhere there will be bright periods but local wintry showers. Another depression on the Atlantic will affect Ireland tomorrow.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 14th November, 1929.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind variable, light, finally east to northeast, freshening; fine today, some rain tomorrow; local fog tonight; cold.
5. S.W. England 6. South Wales	Wind S. to S.E., backing to north, fresh at times locally; cloudy, some rain; improving later; cold.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light variable breeze; mainly fine but local wintry showers; local fog; cold, with frost at most places at night.
13. A. W. Scotland B. N.W. Scotland	Light or moderate westerly breeze; wintry showers, bright intervals; cold, frost inland at night.
14. Mid Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	As 7 - 12.
19. S.E. Ireland 20. S.W. Ireland	Wind variable, light, finally S. or S.E. freshening; local rain then fairer; deteriorating again by tomorrow; cold.

Further Outlook

Further rain periods in the South but probably little change in the North.

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

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

SYNOPTIC CHART FOR 7h. Thursday, 14TH NOVEMBER, 1929.

HIGH

Barometer 1004

1006

1002

1000

998

996

994

992

990

988

Rising

LOW

Barometer

Slowly

Bar.

Falling

1000

slowly

LOW

HIGH

Rising

Barometer Steady

1000

998

LOW

or Rising

slowly

1000

LOW

HIGH

Bar.

Falling

1010

1008

1006

1008

1004

H.M.SHIP

15 36 Cloudy

0 30 Fine

2 34 Snow

43 21 Cloudy

41 15 Fine

5 36 Fine

43 Hail Showers 50

21 30 Fine

5 42 Cloudy

21 41 Sleet

2 35 Fine

34 10 Fine

43 5 Fine

2 30 Fine

15 MELITA 45 Sea 50 Cloudy

37 0 Sleet

3 37 Fine

5 31 Fine

37 5 Cloudy

2 38 Showers

35 15 Fine

2 33 Cloudy

5 41 Fine

5 43 Rain

30 2 Fine

10 32 Fog

41 5 Rain

2 42 Cloudy

2 31 Cloudy

10 40 Fine

39 10 Ocast.

37 10 Cloudy

10 44 Fine

5 41 Cloudy

41 0 Fine

5 37 Fine

5 32 Dense Fog

5 52 Sea 46 Drizzle

36 1 Fine

34 0 Cloudy

37 0 Fine

10 55 Drizzle

2 48 Rain

43 10 Cloudy

39 5 Fine

42 1p

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 14th November 1929. No. 318.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. 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. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Observations at 7h. 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. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Rain 0-5
Lerwick	36	987.1	+1	WSW	4	bcjp	43	66	8	1500	CuNb	3	ACu	6	989.7	+3	W'S	2	cjp	42	85	7	1600	CuNb	5	Ast	9	.0
Stornoway	30	995.8	+1	W	2	bc-	•	•	8	•	•	•	•	3	994.9	+1	W	1	bc	35	85	7	4000	CuNb	3	-	3	.0
Wick	81	992.8	+1	W	2	bc	35	85	8	1500	CuNb	2	ACu	3	994.6	+1	SW	3	b	34	92	8	2500	StCu	2	-	2	.1
Tiree	25	•	•	•	•	•	•	•	•	•	•	•	•	•	997.7	0	NW	4	c/o	38	85	8	2500	CuNb	8	-	8	.1
Nairn	89	•	•	•	•	•	•	•	•	•	•	•	•	•	998.1	0	NW	0	bc	32	85	8	1500	St	4	-	4	.0
Aberdeen	87	•	•	•	•	•	•	•	•	•	•	•	•	•	997.4	+1	W	1	b	30	85	7	2500	CuNb	1	-	1	.0
Malin Head	81	999.2	0	SW	3	bchp	39	97	7	2500	CuNb	7	-	7	999.6	0	W	2	bcjp	37	92	8	2500	CuNb	7	-	7	.5
Renfrew	88	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.0	0	-	0	cirs	31	97	6	1600	St	9	Ast	10	.0
Edinburgh (Inchkeith)	100	998.0	+2	WSW	3	b	36	92	5	800	St	2	-	2	998.6	0	WSW	2	c	35	92	8	-	-	0	Ast	9	.0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	998.7	+2	WSW	3	b	27	92	7	4000	StCu	K1	Ci	10	.0
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.1	0	-	0	ffo	23	97	3	<150	St	10	-	10	.2
Tynemouth	87	998.5	+1	W	2	b	32	92	6	-	-	0	-	0	999.1	+1	W	2	b	31	92	6	1500	St	2	-	2	.2
Blacknod Point	43	1000.7	0	W	3	bcjpb	38	85	8	•	CuNb	7	-	7	1000.1	-1	W	1	bcjpr	38	85	8	•	StCu	7	-	7	.5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	998.7	-1	W	1	bc+	33	92	8	4000	Cu	2	ACu	3	.0
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.3	-2	S	1	c	33	97	7	4000	StCu	10	-	10	.0
Holyhead	70	1002.0	+1	W'N	3	bc	44	75	8	4000	Cu	3	-	3	1001.0	-1	W'S	2	bcjp	41	85	8	4000	Cu	4	Ci	7	.0
Liverpool (Bidston)	109	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.3	+1	-	0	bcjr	37	86	7	1500	CuNb	5	-	5	.
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.0	+1	S	2	bc-	31	97	6	2500	Cu	4	-	4	.
Harrogate	670	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.8	0	SW	3	b	30	92	8	4000	StCu	1	-	1	.1
Spurn Head	29	998.4	0	NW	3	bc	37	97	6	800	St	3	-	3	999.2	0	NW'N	4	bc	35	97	6	800	St	3	-	3	.1
Birmingham (Edgbaston)	550	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.2	+1	SW	1	b+	30	86	5	-	-	0	Ci	2	.
Cranwell	256	1000.2	0	WSW	2	mmb	30	92	4	-	-	0	-	0	1001.1	+1	WSW	3	ffo	29	92	2	<150	St	10	-	10	.0
Gorleston	14	998.6	0	WNW	2	cw	35	97	5	-	-	0	c/st	9	999.0	0	WNW	3	ffo	32	97	3	800	St	10	-	10	.4
Valentia/Cahirciveen	19	1003.4	-1	W	2	o	45	97	9	•	St	10	-	10	999.6	-2	ENE	2	orc	41	92	7	1500	St	10	-	10	.0
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.7	-2	N	1	c	41	85	8	4000	StCu	10	-	10	.2
Pembroke (St. Ann's H.)	150	1002.4	-1	WNW	3	bc-	44	85	8	4000	Cu	4	-	4	1001.0	-1	NE	1	c+	42	97	8	1500	CuNb	3	Ast	8	.
Ross-on-Wye	220	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.2	0	E	1	bc+	28	97	8	-	-	0	Ast	3	.
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.4	0	WNW	1	b	29	92	8	4000	StCu	K1	c/st	1	.
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.8	0	NW'N	1	b	27	97	7	-	-	0	ACu	1	.
S. Farnborough	267	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.0	+1	WNW	1	b	26	92	6	-	-	0	c/st	1	.
London (Kew Obsy.)	18	•	•	•	•	32	•	•	•	•	•	•	•	•	1002.3	+1	W	1	c+	34	85	5	2500	St	9	-	9	.
Croydon	244	1001.1	+1	WNW	3	b	32	97	5	-	-	0	-	0	1002.0	+1	NW	2	o	33	92	6	800	St	10	-	10	.
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1001.3	0	NW	2	b	32	97	6	-	-	0	Ast	1	.
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.4	+1	WNW	3	c	33	92	6	2500	St	8	-	8	.
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1000.7	+2	WNW	3	mmc	33	97	4	1500	StCu	8	Ast	10	.
Lympne	350	999.5	+2	NW	4	bc	35	85	5	-	-	0	Ci	6	1001.1	+2	NW	3	o	32	97	5	800	St	10	-	10	.
Scilly (St. Mary's)	162	1006.1	0	NNW	3	bc	43	75	8	4000	Cu	6	-	6	1001.7	-3	W	3	bc	44	75	8	4000	StCu	7	-	7	.1
Falmouth (Pendennis)	280	1005.2	0	NNW	3	bc+	41	75	9	4000	CuNb	4	Ast	7	1002.6	-2	-	0	c+	42	75	7	4000	CuNb	6	Ast	8	.0
Plymouth (Mt. Batten)	62	•	•	•	•	•	•	•	•	•	•	•	•	•	1002.3	-1	ENE	2	c	34	92	8	6700	StCu	9	-	9	.0
Portland Bill	32	1002.0	+1	NW	4	b	44	65	8	1500	Cu	2	-	2	1001.8	0	NW	3	bc+	40	85	8	1500	StCu	2	Ast	5	.0
Southampton (Calshot)	10	1002.2	+1	WNW	3	b	34	85	7	-	-	0	-	0	1002.6	0	NW	2	b+	32	85	6	2500	Cu	K1	Ci	1	.0
Dungeness	30	999.8	+2	NNW	2	ffc	34	92	3	800	St	8	-	8	1001.4	+3	NNW	2	o	32	97	6	1500	St	10	-	10	.2
Guernsey (St. Peter Port)	177	1004.4	+1	NW	2	bcjpc	44	75	9	2500	Cu	6	-	6	1004.0	0	W	2	c/r	41	85	9	2500	StCu	8	-	8	.

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 12th to 9h. 13th. °F.	Temperature. Max. 9h. 13th. °F.	Rainfall.† Night 17h. 12th - 9h. 13th. mm.	Rainfall.† Day 9h. 13th - 17h. 13th. mm.	Sunshine. Sunrise to Sunset. 13th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	32	41	-	-	6.6
Douglas (I. o. M.)	b	pH	37	43	-	2	5.3
Llandudno	crsc	chc	41	46	-	1	2.4
Colwyn Bay	bpb	bpcpc	39	46	-	1	2.7
Rhyl	bch	pbc	40	49	1	1	2.4
Wallasey	bcphc	crbcc	39	45	2	1	1.4
Southport	bcc	cbcshr	*39	44	1	2	5.2
Blackpool	cbc	cp	41	45	0.4	0.1	4.0
Morecambe	cbrr	cbc	34	43	4	1	3.7
Ilkley	rsc	bc	33	40	2	1	0.9
Cleethorpes	xb	bf	32	40	-	-	5.6
Mablethorpe	bxm	bbcm	31	44	-	-	4.2
Skegness	bx	rc2	31	41	0.3	-	2.7
Aberystwyth	rbc	bch	38	45	1	Trace	.5
Bath	bcb	b	35	47	0.3	-	6.1
Cheltenham	b	b	30	44	-	-	6.2
Leamington Spa	bbc	bbc	27	44	-	-	5.5
Lowestoft	bcmbc	bccbc	31	40	-	-	0.5
Harwich & Dovercourt	oc	ocbc	33	45	-	-	0.0
Walton	x+o	o	29	40	-	-	0.0
Ilfracombe	bbcc	coph	41	48	2	0.4	3.8
Bude	bc	bc	38	49	12	-	4.5
St. Ives	c	bapbc	40	53	11	1	4.7
Penzance	b	bpr	42	50	12	1	5.1
Paignton	bw	bpb	36	48	-	Trace	6.2
Torquay	wbbd	bm	39	50	-	-	6.4
Jersey	rqrcrq	bcrqc	41	48	17	3	2.3
Weymouth	cb	b	37	48	Trace	-	6.1
Bournemouth	cbc	b	32	46	1	-	4.8
Ventnor	orv	ob	39	44	6	Trace	1.7
Portsmouth (S'thsea)	o	ocb	36	45	-	-	1.2
Bognor Regis	oc	cbc	35	44	0.3	-	0.8
Littlehampton	or	cbc	31	43	Trace	-	0.2
Worthing	od	oc	33	42	-	Trace	0.0
Brighton	do	ocbc	34	41	4	1	0.0
Eastbourne	rr	om	34	42	11	2	0.0
Hastings	oror	oro	37	42	5	10	0.0
Folkestone	orrm	oir	35	44	2	3	0.3
Dover	orcir	cir	34	44	3	1	0.0
Deal	ror	o	34	45	6	0.3	0.0
Tunbridge Wells	omo	o	33	39	-	-	0.0
Ramsgate	ro	opo	38	44	5	2	0.0
Margate	cr	c	37	45	-	7	0.0
Southend	of	omf	36	40	Trace	-	0.0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,830. FRIDAY 15th NOVEMBER 1929.

Observations at 13h. G.M.T. 14th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	992·8	+2	SW	2	c/p	43	85	7	1500	C.Nb	5	Ac	5	*
Stornoway	996·9	+2	WSW	1	cr	39	92	7	4000	C.Nb	8	-	8	*
Wick	996·7	+2	W	2	bc	40	85	6	1500	C.Nb	5	Ac	7	*
Tiree	996·7	+2	W	2	bc	40	85	6	1500	C.Nb	5	Ac	7	*
Nairn	1000·1	+1	W	2	cr.r.	39	92	9	2500	Nb	9	-	9	2
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	998·6	+1	WSW	1	b	42	65	7	-	-	0	-	0	3
Malin Head	1001·1	+1	S.	2	bc/p	40	92	8	2500	C.Nb	7	Ci	7	*
Renfrew	1001·0	+3	WSW	1	c-	37	92	6	1500	St.C.	9	-	9	2
Edinburgh (Inchkeith)	999·2	+1	W	3	c	37	85	6	800	St	2	As	9	*
Leuchars	999·0	0	WSW	3	b	39	75	6	4000	Cu	1	-	1	2
Eskdalemuir	1000·3	0	SSE	2	o	33	57	6	800	St	10	-	10	3
Tynemouth	999·7	0	W	1	b/f	42	75	6	1500	St	1	Ci	2	*
Blacksod Point	1002·9	+2	-	0	bc	44	65	8	*	C.Nb	4	C	6	*
Donaghadee	1000·2	+1	W	1	b-	40	85	8	5700	C.Nb	1	Cu	2	*
Birr Castle	1001·6	+2	NW	1	c	41	85	7	4000	C.Nb	1	Cu	8	*
Holyhead	1001·4	+1	S	2	c/pR	41	92	8	4000	C.Nb	8	-	8	1
Liverpool (Bidston)	1000·3	0	N	2	c/p	42	75	6	800	C.Nb	3	Ac	9	*
Chester (Sealand)	1000·3	-1	S'W	2	bc+	44	65	6	2500	C.Nb	2	Ac	5	2
Harrogate	1000·3	0	SW	2	b	42	65	8	-	-	0	Cst	2	*
Spurn Head	999·9	0	NNW	3	bc-	40	85	6	1500	St	4	Cu	6	*
Birmingham (Edgbaston)	1001·5	-1	WSW	2	bc	43	75	6	2500	Cu	2	Ci	3	2
Cranwell	1000·7	-2	WSW	2	b/m	39	85	5	-	-	0	ACu	1	1
Gorleston	999·7	0	WNW	2	bc	37	92	5	1500	St	4	-	4	*
Valentia (Cahirciveen)	1002·0	+3	N'E	2	c	45	75	8	1500	St.Cu	9	-	9	2
Roches Point	1001·8	0	N	2	c	43	85	7	4000	St.Cu	10	-	10	*
Pembroke (St. Ann's H.)	1000·0	-1	SE	1	c/pr.	43	97	7	1500	C.Nb	7	As	10	*
Ross-on-Wye	1000·9	-1	W'S	1	bc⊕	44	65	7	4000	Cu	1	Ci	7	2
Leafield	1000·7	0	WNW	1	bc⊕	42	65	8	4000	Cu	1	Ci	4	1
Winchester (Worthy Dn.)	1001·7	-2	WNW	1	bc	42	75	6	-	-	0	Ci	6	1
S. Farnborough	1001·2	-2	WSW	1	bc	46	65	7	-	-	0	Ci	4	1
London (Kew Obsy.)	1001·5	-2	WSW	2	bc	41	75	6	-	-	0	Ci	5	1
Croydon	1002·0	-1	NW'W	2	bc+	44	65	5	2500	Cu	1	Ci	5	2
Shoeburyness	1001·4	0	NW	2	b	40	85	8	-	-	0	Ci	1	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1000·8	-1	W'N	3	b	37	85	5	-	-	0	-	0	1
Lympne	1000·7	-2	W'N	1	b	41	75	5	-	-	0	Ci	2	2
Scilly (St. Mary's)	999·5	-1	SW'S	2	cr.r.	45	85	8	4000	Nb	9	-	9	*
Falmouth (Pendennis)	1000·8	-1	-	0	c	46	75	8	2500	Nb	6	As	10	*
Plymouth (Mt. Batten)	1000·3	-3	E	3	c	45	75	8	4000	Nb	5	As	9	2
Portland Bill	1000·4	-2	NE	2	c+	47	65	8	1500	St.Cu	7	Cu.Sc	8	*
Southampton (Calshot)	1002·0	-3	SE	1	bc⊕	46	65	6	-	-	0	Ci	7	0
Dungeness	1001·3	-2	W	2	bc-	41	75	7	-	-	0	Cu	4	*
Guernsey (St. Peter Port)	1002·0	-2	SE	2	c/r	44	75	8	1500	St.Cu	10	-	10	*

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	995·6	+3	S	2	c/p	m2	92	7	1500	Cu.Nb	5	Ac	8	*
Stornoway	999·4	mm	NW	2	bc/p.	37	85	7	4000	Cu.Nb	7	-	7	*
Wick	998·1	+2	W	2	bc	d6	97	8	1500	Cu.Nb	m	As.St.	6	/
Tiree	998·1	+2	W	2	bc	d6	97	8	1500	Cu.Nb	m	As.St.	6	/
Nairn	1001·7	+3	N	/	bc	m0	85	8	4000	Cu.Nb	3	-	3	/
Aberdeen	999·7	*	WSW	2	bcr	36	85	8	2500	Cu.	m	As.Ac.	7	*
	1000·3	+2	WSW	1	mb	31	85	m	-	-	0	As.Cu.	1	0
Malin Head	1003·0	+2	NW	3	bc/p	m3	75	8	2500	Cu.Nb	3	As.Cu.	3	2
Renfrew	1002·6	+3	W	1	b	31	97	6	-	-	0	-	0	*
Edinburgh (Inchkeith)	1001·3	+2	WSW	3	mbc	36	92	m	450	St.	m	-	m	/
Leuchars	1001·7	+3	WSW	3	0	31	92	6	-	-	0	-	0	*
Eskdalemuir	1003·5	+3	-	0	bc-	31	85	8	2500	St.Cu	3	-	3	*
Tynemouth	1001·2	+2	WNW	2	b	35	92	6	1500	St.	1	As.Cu.	2	2
Blacksod Point	1003·3	+2	W	2	bc	m	75	8	*	Cu.Nb	6	-	6	3
Donaghadee	1002·1	+2	W	1	b	d3	92	8	5700	Cu.Nb	1	-	1	*
Birr Castle	1001·9	+3	NNW	1	b	d4	97	6	-	-	0	-	0	*
Holyhead	1002·9	+3	NW	3	bc	m3	85	8	4000	Cu.	5	-	5	/
Liverpool (Bidston)	1001·9	+2	SW	2	b-	35	97	5	5700	St.Cu.	1	-	1	*
Chester (Sealand)	1001·7	+2	ENE	1	bc	d5	92	6	2500	St.Cu.	7	-	7	*
Harrogate	1002·1	+1	SW	1	bc	d4	92	7	4000	St.Cu.	7	-	7	*
Spurn Head	1001·4	+1	NW	3	bc	m	85	6	1500	St.	3	-	3	0
Birmingham (Edgbaston)	1002·0	+1	WSW	2	b	36	85	6	4000	St.Cu.	1	-	1	*
Cranwell	1001·8	+2	WSW	2	mb	d3	92	m	-	-	0	-	0	*
Gorleston	1000·6	+1	WNW	3	fbcr	d3	92	2	4500	St.	5	-	5	0
Valentia (Cahirciveen)	1003·9	+6	NEN	2	b	d9	85	9	2500	Cu.	1	-	1	m
Roches Point	1003·7	+m	N	3	bc	m2	85	8	2500	Cu.Nb	3	-	3	0
Pembroke (St. Ann's H.)	1001·1	+1	NNE	1	c/p.	d9	97	8	1500	Cu.Nb	6	As.St.	8	/
Ross-on-Wye	1002·3	+2	WSW	1	fbc	d5	92	d	-	-	0	Cu.Cu	1	*
Leafield	1001·8	+1	-	0	b-	d6	85	8	5700	St.Cu.	1	-	1	*
Winchester (Worthy Dn.)	1003·3	+1	-	0	bc	d1	92	7	-	-	0	As.Cu.	3	-
S. Farnborough	1002·8	+1	W'N	1	b-	d3	92	7	-	-	0	As.Cu.	2	-
London (Kew Obsy.)	1002·2	+2	-	0	mb	d5	92	m	-	-	0	-	0	*
Croydon	1002·2	+1	-	0	fb	d4	92	d	-	-	0	Cu.	1	*
Shoeburyness	1002·0	+1	NW	2	b	d2	92	6	-	-	0	-	0	*
Clacton-on-Sea	1001·4	0	NNW	3	b	d4	85	6	2500	Cu.	2	-	2	0
Felixstowe	1002·5	+1	WNW	3	b	d5	92	5	-	-	0	-	0	/
Lympne	1002·7	+2	NW	2	fb	d3	92	d	-	-	0	-	0	*
Scilly (St. Mary's)	1003·3	+3	NNE	3	c/-	m	85	8	4000	St.Cu	8	-	8	/
Falmouth (Pendennis)	1002·7	+3	NNE	2	bc	m3	92	6	4000	Cu.Nb	5	As.Cu	7	0
Plymouth (Mt. Batten)	1002·8	+3	NE	1	c/r	m2	85	7	2500	Nb.	9	-	9	0
Portland Bill	1000·5	+1	E	3	c	m7	65	8	1500	St.Cu	10	-	10	/
Southampton (Calshot)	1002·3	+1	NNW	1	c	d9	92	5	-	-	0	As.Cu.	8	0
Dungeness	1002·8	+2	NW	1	b-	d4	92	6	-	-	0	-	0	2
Guernsey (St. Peter Port)	1002·9	+2	SSE	2	c	m	75	9	2500	St.Cu	8	-	8	2

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	c6bc2.0	bc8m	f6bof4	43	27	19	-	-	5·6	*	*	1
Croydon	266	[illegible]	[illegible]	[illegible]	44	27		-	-	4·9	*	*	0
Greenwich (Royal Obsy.)	149	c6f4	bc6f4	f6bof4	40	26	14	Tr	Tr	0·0	68	97	1
City (Bunhill Row)	89	*	*	*	*	*	*	*	*	0·2	*	*	*
Westminster (St. James' Pk.)	97	*	*	*	43	27	25	-	-	1·0	81	93	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	2·1	*	*	*
Camden Square	110	c6	bcc	*	42	31	*	-	-	*	(At 18h.) 100		*
Kensington Palace	80	bxc0	bc	*	42	29	19	-	-	*	(At 9h.) 83		*
Hampstead Observatory	460	*	*	*	43	25	18	-	-	4·5	*	98	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
2·6	22h 14h	0·6	14h 14h

Kew Observatory

Max.	Time.	Min.	Time.
1·3	12h 14h	0·2	14h 14h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 14h 17m 15s to 15h 06h 15m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13·0	0q25	73
β Ursae Minoris	13·0	0u22	34

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=Sleeting 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-17th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·17	11 38	15 38
	7·18	11 38	16 37
Greenwich	7·19	11 45	15 58
	7·21	11 45	15 57
Wick	8·3	11 57	16 51
	8·5	11 57	15 49
Valentia	8·2	12 24	16 49
	8·3	12 26	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—10000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. s thunder.
u ugly, threatening skys.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

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

With present weather is contrasted, whenever possible, the general character of the weather
A "solidus" [illegible] 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
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.

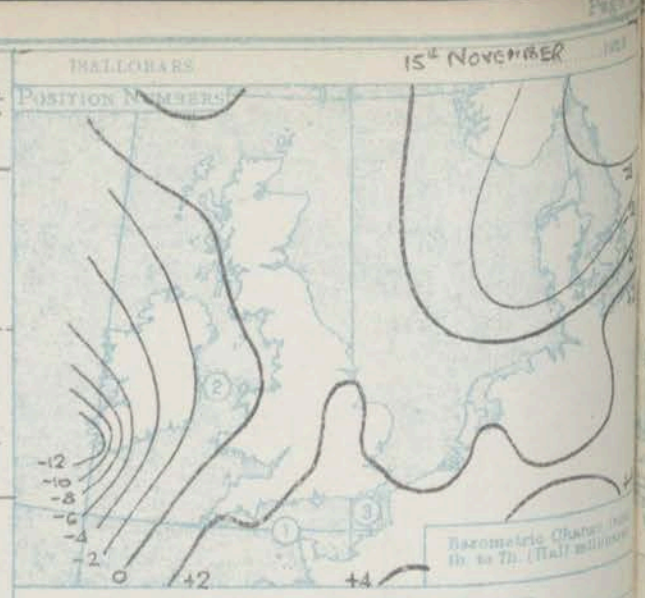
	Objects not visible at 66 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	660 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	11 "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. 15th 14th	WEATHER. 13h.-18h. 14th	WEATHER. 18h. 14th to 1h. 15th	WEATHER. 1h.-7h. 15th	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 14th Hours.
Lerwick	c o ir	c o v r	c b c	b c	44	36	•	10	< 8·00	0·4	< 21·00	0·5
Stornoway	p	p	b b c	b x	42	33	•	4	11·00	-	-	1·8
Wick	b-b c	b-b c	c r r b c	b-b c	41	31	•	-	-	1	< 21·00	
Tiree	p R c r	c p r b c	b c	p R b c	42	30	20	3	< 8·00	1	24·00	2·7
Nairn	b c x	b c	b c c	c b c x	39	30	•	-	-	-	-	5·0
Aberdeen	b x b	b x z	b x z b	b x	43	28	21	-	-	-	-	6·8
Malin Head	c b c h r	b c p h	b c p h	b c p h	44	34	•	0·5	< 8·00	2	< 21·00	3·4
Renfrew	r s c f c m	c b c b m	b x m	b x o F F	39	24	16	0·1	< 8·00	-	-	2·4
Edinburgh (Inchkeith)	c	c b c	b c m m m	b c m r m	38	31	30	-	-	-	-	1·4
Lerwick	b, b m	b x b x m	b m x b z b x	b x	39	26	18	0·1	-	-	-	6·5
Eskdalemuir	a f x c o	a m b c	b c b	b b x o F x	35	17	13	-	-	-	-	0·4
Tynemouth	b f f	b	b i f	b	42	28	25	-	-	-	-	•
Blacksod Point ...	p b c	p b c	b	c	46	38	•	1	-	-	-	•
Donaghadee	b c b	b	b	b b c x	42	31	•	-	-	-	-	•
Birr Castle	c b c	c b c b x	b f b x	b b c x	w	25	15	-	-	-	-	3·6
Holyhead	b c p r	c b c j b	p h b c b	b u b c c	46	36	33	1	11·00	0·1	< 21·00	2·4
Liverpool (Bidston) ...	b b c m	r r r s	b c c p	c p	w2	34	30	w	13·30	0·3	24·00	4·8
Chester (Sealand) ...	b c m f m b	b p R H g p	b o b x m	b c c m	w7	26	19	2	11·30	-	-	5·0
Harrogate	b	b b c	b c b	b x	42	28	23	-	-	-	-	5·1
Spurn Head	b c m	b c	b c z x	b c x	42	33	•	-	-	-	-	7·3
Birmingham (Edgbaston)	b	b - b	b	b m z	w3	29	16	-	-	-	-	6·8
Cranwell	o f x b m	b m x	b m c f x	c f b m x	w	27	23	11	-	-	-	4·5
Gorleston	f f b c b m m	b c m x	f f b c m x	b m x	41	30	28	-	-	-	-	4·8
Valentia (Cahirciveen)	o c r c	b b c v b r	b x	b x b c b r	45	33	27	1	< 8·00	0·2	6·30	2·2
Roches Point	c p o c	c b c	b c c	c	45	33	•	11	9·00	-	-	
Pembroke (St. Ann's H.)	c p r	c p r	b c p	b c	45	36	•	0·1	11·00	T r	< 21·00	0·3
Ross-on-Wye	c w b c	b c b m f	b f x c f b m x	b m x	w6	21	15	-	-	-	-	5·8
Leafield	b x b c	b c	b x	b x	ww	28	13	11	-	-	-	6·1
Winchester (Worthy Dn)	b c m	b c m b c	b c b r e	b m x	w5	24	14	-	-	-	-	5·4
S. Farnborough ...	b m x b c	b c b	p b m x	o m w x	w6	21	15	-	-	-	-	6·7
London (Kew Obsy.) ...	c b c	b c b x m	b m b f x	b f x c f x	w3	27	19	-	-	-	-	5·6
Croydon	o m x m b c	b c x b c z b f	b f b m x	b m m x	ww	27		-	-	-	-	4·9
Shoeburyness	b m b	b m	b m	b c f x	42	28	18	-	-	-	-	3·7
Clacton-on-Sea ...	c b c	b c b m	b m x	b b c m x	37	29	26	-	-	-	-	4·2
Felixstowe	c m b c m	b x	b 2 z	b 2 o x m	37	29	25	-	-	-	-	5·4
Lympne	o m c b c	b m b c b f	b f f x	b b f x	w2	27	21	-	-	-	-	4·1
Scilly (St. Mary's) ...	b c c r	c f	c b c	b c c	47	42	•	1	11·00	-	-	0·0
Falmouth (Pendennis)	c r	c b c	b c m	b c	48	39	•	0·6	8·00	-	-	0·0
Plymouth (Mt. Batten)	c x	c r	c b x	b x c	46	32	27	0·5	11·30	-	-	0·0
Portland Bill, ...	b c c	c	c b c	b c z	47	37	•	-	-	-	-	
Southampton (Calshot)	b c m	b c a m	c b c b m w	b w b x m	46	30	26	-	-	-	-	5·8
Dungeness	o r c b c	b c b z	b f f	b f f o m	44	26	•	-	-	-	-	
Guernsey	r b r o	c o	c c p c o	c	48	37	29	1	12·30	2	< 21·00	0·6



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	14th 10h	Scotia	W	2	bc	43	52
1	- 12h	St. Helier	-	0	cjp	49	55

GENERAL INFERENCE.

A depression off Southwest Ireland is moving eastward. Rain will extend over most of Ireland and England and snow will occur on high ground in Northern Englsnd. Some deterioration is also probable later in the east and extreme south of Scotland.

Gales may be expected on our S.W. coasts and the English Channel.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 15th November, 1929.	Farther Outlook.
1. S.E. England ⚜ 2. E. England 3. E. Midlands 4. W. Midlands	Wind south or southeast, freshening considerably, becoming variable to northerly tomorrow; fair at first apart from local fog; rain later; becoming less cold.	Unsettled.
5. S.W. England ⚜	Wind S., veering W., strong to gale; rain, then fairer; milder.	
6. South Wales ⚜ 7. North Wales	Wind S.E., becoming variable finally northerly, fresh or strong at times; some rain, with snow on the higher hills; improving tomorrow; less cold.	⚜ South cone hoisted at 8h. 40m. today in Districts 1, 5, 6 and 20.
8. N.W. England 9. N. Midlands 10. N.E. England	Wind S.E., backing E., light to fresh; fair at first, some rain or sleet later; with snow on hills; cold.	
11. S.E. Scotland	Wind variable, light then east, freshening; fine today, some showers tomorrow; less cold.	
12. S.W. Scotland & Isle of Man	Wind variable, light, then east, moderate; mainly fair but perhaps local rain or showers later; fog locally; cold.	
13. A. W Scotland B. NW Scotland 14. Mid-Scotland	Wind variable becoming easterly, light; fine; cold, frost at night.	
15. N.E Scotland	As 11.	
16. Orkneys and Shetlands		
17. N.W. Ireland 18. N E. Ireland 19. S.E. Ireland 20. S W. Ireland ⚜	As 6 - 17.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0955 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† For code see page 1 ‡ Trace = rain has fallen, but amount less than 0·1

OVEMBER 1929

	Temp.		
	Air	Sea	
bc	43	52	
cjp	49	55	

Southwest
ward.
most of
nd snow will
in Northern
ration
r in the ea
Scotland.
on our
nglish

nsettled.

outh cone
ted at
40m. today
istricts 1,
and 20.

rther Outlook

D.Sc., F.R.S., Direc

but amounts less than 0

SYNOPTIC CHART FOR 7h. FRIDAY, 15th NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

HIGH

1010 (5) 34 Ocast +1

(5) 25 Ocast. +1

1008

Barometer

(2) 28 Fine +1

1006

(21) 36 Fine 0

1004

1002

1000

998

996

994

992

LOW

Rising

(2) 34 Fine +3

Cloudy

(0) 37 Fine

(0) 34 Fine

(5) 31 Fine

Bar

(2) 27 Thick Fog

(5) 28 Fine

Almost

(15) 34 Fine

(2) 32 Fine

(5) 37 Cloudy

(2) 30 Mist

(10) 30 Thick Fog

(5) 40 Cloudy

Steady

(0) Fog

(10) 38 Fine

(5) 34 Fine

Barometer

(10) 34 Cloudy

(0) 39 Fine

(0) 34 Dense Fog

(0) 41 Fine

(5) 31 Thick Fog

(2) 28 Fine

(2) 27 Ocast

(10) 25 Fine

Rising

(2) 57 Rain

(2) 52 Drizzle

HIGH

1014

1012

1010

1008

1006

1004

1002

1000

(21) 41 Fine

(10) 39 Cloudy

HIGH

Bar

(21) 39 Fine

(0) 28 Cloudy

(0) 37 Fine

Falling

LOW

(10) 43 Cloudy

Steady

994

(10) 39 Drizzle 996

(27) 45 Ocast

998

1000

(10) 34 Cloudy

1004

(21) 45 Rain

Falling Rapidly

OLYMPIC

(42) 56 Sea 35 Fine Squally

HOMERIC

(21) 56 Sea 35 Ocast

(5) 43 Cloudy

(10) 39 Fine

Rising

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. ≡ Fog. ≋ Mist. ▽ Shower. ▲ Hail. ✱ Snow. ϟ Thunderstorm.

SEA DISTURBANCE.

Smooth. Very Rough.

Ice. ICELAND. Barometric change from 7h. to 7h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION.... FRIDAY, 15th NOVEMBER.....1929. No. 319.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 15th												Observations at 7h. G.M.T. 15th											
		Baromr. at M.S.L.	Change in 3 Hours.	Wind. Direc.	Wind. Force	Weather.	Temp.	Humidity.	Visibility.	Cloud. Low. Height	Low. Form	Low. Amt.	Upper Form.	Total Amt.		Baromr. at M.S.L.	Change in 3 Hours.	Wind. Direc.	Wind. Force	Weather.	Temp.	Humidity.	Visibility.	Cloud. Low. Height	Low. Form	Low. Amt.	Upper Form.	Total Amt.	
		mb.			0-12		°F.	%	0-6	Feet		0-10		0-10		mb.			0-12		°F.	%	0-6	Feet		0-10		0-10	
Lerwick	54	998·6	+2	-	0	bc	38	97	8	1500	St Cu	3	-	3		999·4	+1	-	0	bc	37	97	8	1500	St Cu	3	Ast	5	0
Stornoway	89	1002·1	+2	SW	2	b -	*	*	8	*	*	*	*	0		1000·7	0	-	0	b	34	97	7	4000	Cu	2	-	3	1
Wick	81	1000·3	+2	WNW	2	bc	35	92	8	2500	St Cu	4	A Cu	6		1000·7	+1	WNW	2	bc	31	97	8	4000	Cu	2	Ast	3	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*		1001·6	-1	-	0	b	36	85	87	2500	St Cu	1	C St	1	*
Nairn	52	*	*	*	*	*	*	*	*	*	*	*	*	*		1001·6	0	WSW	1	bc-	31	85	8	4000	Cu	5	-	5	*
Aberdeen	27	*	*	*	*	*	*	*	*	*	*	*	*	*		1002·1	+1	WNW	2	b	31	85	8	2500	Cu Nb	1	A Cu	1	0
Malin Head	51	1004·4	0	S	3	bc j p	37	97	8	4000	Cu Nb	3	-	3		1002·2	-1	S	1	b c/h	35	92	8	4000	Cu Nb	1	Ci Cu	5	2
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·9	+1	NNE	1	F F o	27	97	1	< 150	St	10	-	10	*
Edinburgh (Inchkeith)	100	1002·6	+1	W	2	m m b c	34	92	4	800	St	2	A Cu	4		1003·3	0	WSW	2	bc	32	97	5	800	St	2	A Cu	7	0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*		1003·2	0	SW	2	b	27	85	8	4000	St Cu	1	-	1	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*		1005·4	+1	-	0	F F o	20	92	1	< 150	St	10	-	10	*
Tynemouth	67	1003·1	+1	W	2	b l f	30	92	6	1500	St	1	Ci	2		1004·0	+1	W N W	2	b	28	97	6	2500	Cu	2	-	2	0
Blacksod Point ...	18	1004·2	-1	-	0	bc	42	76	7	*	Cu	3	-	3		999·2	-5	SE	3	c	41	75	8	*	St Cu	10	-	10	5
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*		1003·9	-1	WSW	1	bc+	32	92	8	4000	St Cu	3	-	3	0
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*		1002·4	-4	S	1	bc+	32	97	6	4000	St Cu	7	-	7	2
Holyhead	20	1005·1	+1	N W'N	3	b	43	75	8	4000	Cu Nb	2	-	2		1004·5	-1	S'E	2	c	37	97	8	4000	Cu	2	C St	8	*
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·2	0	S W'W	2	c	36	92	8	1500	Cu Nb	2	A St	8	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·6	+1	S S E	2	c+	29	92	6	1500	St	8	-	8	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·6	0	S W	2	b	28	92	8	-	-	0	A Cu	1	*
Spurn Head	30	1002·3	0	N W	3	bc	36	97	5	450	St	4	-	4		1003·4	0	N W	4	bc	34	97	6	1500	St Cu	3	-	3	2
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*		1005·9	+1	S W	1	F b -	30	97	4	-	-	0	Ci -	1	*
Cranwell	256	1003·6	+1	W'N	3	f f c	32	92	2	4000	St Cu	8	-	8		1004·9	+2	W S W	3	F b -	27	92	4	4000	St Cu	1	-	10	0
Gorleston	14	1002·1	+1	W N W	3	b	31	85	6	4000	Cu	1	-	1		1003·4	+1	W	3	F o +	30	92	1	220	St	10	-	10	0
Valentia (Cahirciveen) P	30	1007·1	0	S E	2	c	46	97	9	*	-	0	A Cu	10		996·4	-13	S E	5	c F	45	85	8	1500	Nb	4	Ast	10	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*		1002·2	-4	S	3	c	45	85	8	2500	St Cu	5	-	5	1
Pembroke (St. Ann's H.)	150	1005·6	+2	N E	2	bc-	37	97	8	2500	Cu	3	-	3		1005·7	0	N E	2	c+	40	97	8	2500	Cu	3	Ast	8	*
Ross-on-Wye	233	*	*	*	*	*	*	*	*	*	*	*	*	*		1006·1	0	N W	1	m m b	23	97	4	-	-	0	Ast	1	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*		1005·4	+1	N W	2	b	29	92	7	-	-	0	A Cu		*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*		1006·3	+2	-	0	b+	25	97	5	-	-	0	Ci	2	*
S. Farnborough ...	287	*	*	*	*	*	*	*	*	*	*	*	*	*		1006·3	+2	W	1	m m b	23	85	4	-	-	0	Ci	2	*
London (Kew Obsy.) ...	18	*	*	*	*	*	29	*	*	*	*	*	*	*		1006·3	+3	-	0	f f o	29	97	2	< 150	St	10	-	10	*
Croydon	344	1004·5	+2	-	0	f b -	29	92	4	-	-	0	-	0		1006·2	+2	W'N	2	m m b	29	97	4	-	-	0	Ci	1	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*		1005·7	+1	W	2	F b c -	29	92	1	-	-	0	Ast	3	0
Clacton-on-Sea ...	56	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·2	+1	W N W	3	bc	29	92	6	2500	St	4	-	4	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*		1004·8	+1	W'N	3	f f bc	32	92	3	800	St	6	-	6	*
Lympne	350	1003·6	+2	N W	2	f f b	29	97	2	-	-	0	-	0		1005·2	+2	N W'N	2	F b +	28	97	3	-	-	0	-	0	0
Scilly (St. Mary's) ...	108	1006·2	+1	N'E	3	bc	44	85	8	4000	Cu	4	-	4		1006·0	0	S W	2	c	43	75	8	4000	St Cu	8	-	8	0
Falmouth (Pendennis)	200	1006·3	+1	N N E	1	bc	41	75	8	4000	Cu	3	-	3		1007·4	+2	-	0	bc+	40	85	8	4000	St Cu	7	-	7	0
Plymouth (Mt. Batten)	82	*	*	N N E'N	*	*	*	*	*	*	*	*	*	*		1006·2	0	N E	2	c	32	97	7	4000	Cu	1	A Cu	4	1
Portland Bill	37	1003·9	+3	S W	3	b -	44	65	8	2500	St Cu	2	-	2		1004·7	+2	N W	3	bc	38	85	6	2500	St Cu	3	A Cu	4	0
Southampton (Calshot)	10	[illegible]	+2	N W	2	b	34	92	5	-	-	0	A Cu	1		1006·5	+2	N W'W	2	bc	32	92	5	-	-	0	C St	4	0
Dungeness	20	1003·7	+2	N N W	2	f f b	28	97	2	-	-	0	-	0		1005·3	+3	N W	1	b f	26	92	6	-	-	0	Ci Cu	6	2
Guernsey (St. Peter Port)	179	1005·2	+3	W	1	bc	40	97	8	2500	St Cu	6	-	6		1006·8	+2	-	0	bc	39	97	8	2500	St Cu	6	-		

1005·0

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-13h. to 9h. 14th. °F.	Temperature. Max. 9h.-17h. 14th °F.	Rainfall† Night 17h.-9h. 13-14 mm.	Rainfall† Day 9h.-17h. 14th mm.	Sunshine Sunrise to Sunset. 14th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	29	40	-	-	5·9
Douglas (I. o. M.) ...	b b c	b c p h	33	m m	1	1	m·7
Llandudno ...	b c	c h b c p	35	m 7	2	1	6·0
Colwyn Bay ...	b b c h	h b c p o	34	m 9	2	5	5·6
Rhyl	b c	r	31	m 5	5	6	m·5
Wallasey	f b c c	b c R r s o	35	m 3	8	3	2·5
Southport	c o r	r r c o	33	38	m	m	0·0
Blackpool	r s h c	o c p	33	38	5	2	0·3
Morecambe ...	r h c	c b e r c	26	38	2	1	0·3
Ilkley	x m	c g	26	36	-	-	0·m
Cleethorpes	x f b	b f	29	m 0	-	-	m·1
Mablethorpe. ...	b x m	b m p m	27	m 1	-	-	6·0
Skegness	b x z b	b m	27	m 2	Trace	-	5·2
Aberystwyth ...	r b c	b e r j b	35	m 5	1	0·5	1·5
Bath	b c c b	c b c b	26	m 5	-	-	3·m
Cheltenham ...	b c	b c c	27	m m	-	-	m·8
Leamington Spa ...	b	b b c	26	m 3	-	-	5·6
Lowestoft	b a f	b c b	31	39	-	-	m·6
Harwich & Dovercourt	b c	f p m	31	37	-	-	m·9
Walden	o c	b f	32	m 1	-	-	3·1
Ilfracombe	0	o z	38	m 5	0·2	-	0·0
Bude	b c b c	c b c	35	m 9	3	-	0·0
St. Ives	c	c	m 0	m 6	-	-	0·0
Penzance	c	c	36	m 8	-	-	0·0
Paignton	a m x c m	p c m	30	m m	-	Trace	0·1
Torquay	o m p m	o m	31	m 6	-	Trace	0·3
Jersey	d e f c	c b c c	37	m 8	0·1	-	2·0
Weymouth	x m b v	c b c	30	m 7	-	-	2·1
Bournemouth ...	f o c	c o f	30	m m	-	-	6·6
Ventnor	c b	b b z	31	m 7	-	-	6·5
Portsmouth (S'thsea)	b	b b c	30	m m	-	-	6·3
Bognor Regis ...	b b c b	b b c b	31	m 5	-	-	7·2
Littlehampton ...	b c	b c	29	m 6	-	-	6·7
Worthing	b c	b c	33	m m	-	-	6·9
Brighton	b c b	b e f	32	m 3	-	-	7·6
Eastbourne	b	b b c	32	m m	Trace	-	7·3
Hastings	x c b	b b c -	30	m 3	0·2	-	5·0
Folkestone	b e x o	b c	32	m 3	-	-	6·0
Dover	d b c b	b b c b	33	m 3	-	-	6·3
Deal	b c	b c	33	m 0	0·3	-	5·7
Tunbridge Wells ...	c b c	b b c	29	m m	-	-	6·0
Ramsgate	o c b	b	35	m 1	-	-	m·6
Margate	b c	b c	36	m 0	-	-	m·0
Southend	o c b	c a b p	31	m 5	-	-	

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

* Information not usually received. † The observations at 1h. G.M.T. from an auxiliary station. ‡ At stations marked thus the maximum temper...are for the period 21h.-17h., the minimum for the period 21h. 9h. § For code see page 1. ‖ See footnote page 1. ¶ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION. No. B.2438 SATURDAY 16th NOVEMBER 1929.

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

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	998·4	-3	S	1	b	43	75	9	1500	Cu	2	-	2	•
Stornoway	998·9	-2	SW	1	bc	46	65	8	4000	Cu	2	Ci St	3	•
Wick	999·3	-2	WNW	1	b	39	92	8	4000	Cu	2	-	2	•
Tiree	997·9	-3	SE	3	c	40	85	9	2500	St Cu	2	Cu Cu	8	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	998·4	-4	NW	2	b	41	78	7	2500	Cu Nb	1	AC	1	3
Malin Head	996·6	-4	SE	4	c	32	92	8	4000	Cu	1	Ast	9	•
Renfrew	1000·6	-5	-	0	ffo	30	97	1	220	St	10	-	10	3
Edinburgh (Inchkeith)	1001·2	-3	WSW	2	fo+	34	97	1	450	St	10	-	10	•
Leuchars	1000·0	-4	WSW	1	bc	42	65	7	4000	Cu	1	Ci	2	2
Eskdalemuir	1000·5	-3	SSE	1	b	31	92	6	800	St Cu	1	Ci	2	3
Tynemouth	1000·2	-3	W	2	fbc	38	85	3	1500	Cu	4	-	4	•
Blacksod Point	998·8	-6	SE	6	oRS-	37	92	7	•	Nb	10	-	10	•
Donaghadee	997·0	-4	SSE	3	ci	44	65	8	4000	Cu	8	-	8	•
Birr Castle	999·1	-13	SE	3	or°	40	85	7	4000	Nb	10	-	10	•
Holyhead	998·8	-7	SE	4	c	43	85	9	4000	Cu	1	Ast	9	1
Liverpool (Bidston)	999·7	-5	SE	3	rmmc	37	92	4	-	-	0	AC	9	•
Chester (Sealand)	1000·4	-6	SE	3	c	41	85	6	7200	St Cu	5	AC	8	2
Harrogate	1001·6	-3	S'E	2	b	40	55	7	2500	St	1	Ci	2	•
Spurn Head	1001·2	-1	W'S	1	bc	39	85	6	1500	St	4	Ci	5	•
Birmingham (Edgbaston)	1001·8	-5	SSE	3	bc+	40	75	6	-	-	0	AC	6	2
Cranwell	1002·2	-5	SW'W	3	ffo	31	97	1	450	St	10	-	10	3
Gorleston	1002·6	-2	W'N	2	fo-	32	92	3	800	St	10	-	10	•
Valentia (Cahirciveen)	981·5	-11	S'W	5	cr°	49	92	7	1500	Nb	9	-	9	2
Roches Point	986·3	-18	S	8	orr	48	97	5	800	Nb	10	-	10	•
Pembroke (St. Ann's H.)	995·4	-8	S	6	c/pc°	47	92	7	2500	Cu	7	Ast	10	•
Ross-on-Wye	1000·7	-7	SE	2	c	41	65	6	-	-	0	Ci St	8	2
Leafield	1001·7	-4	SE'S	2	bc	37	85	6	-	-	0	AC	6	1
Winchester (Worthy Dn.)	1001·8	-6	SE	2	bc	42	65	8	-	-	0	AC	7	1
S. Farnborough	1002·9	-5	ESE	2	bc	42	75	6	-	-	0	AC	6	1
London (Kew Obsy.)	1003·7	-5	-	0	ffo	32	97	1	450	St	10	-	10	3
Croydon	1004·4	-4	-	0	ffo	32	97	0	450	St	10	-	10	2
Shoeburyness	1004·2	-3	NW	2	ffo	31	97	0	450	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1004·2	-2	W	2	ffo	31	97	2	450	St	10	-	10	6
Lympne	1003·8	-3	SW'S	1	bc+	41	75	6	-	-	0	Ci	4	2
Scilly (St. Mary's)	992·7	-15	S'W	7	crr	48	92	6	2500	Nb	9	-	9	•
Falmouth (Pendennis)	997·4	-9	S'E	8	ci	49	75	8	4000	St Cu	10	-	10	•
Plymouth (Mt. Batten)	998·6	-11	S	5	cr°	48	65	8	2500	Nb	9	Ast	10	2
Portland Bill	1001·2	-6	SSE	3	ci	47	65	8	2500	St Cu	4	Ast	9	•
Southampton (Calshot)	1003·1	-7	ESE	3	fbc-	46	75	5	-	-	0	AC	5	0
Dungeness	1004·3	-3	W	1	bc+	46	65	7	2500	Cu	1	Ci Ci	4	•
Guernsey (St. Peter Port)	1002·8	-8	S	3	ci	50	65	9	2500	St Cu	8	-	8	•

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

Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
996·8	-2	S	1	b	38	85	8	2500	St Cu	2	-	2	•
997·6	-1	-	0	bc	31	92	7	4000	Cu	3	Ci St	4	0
998·1	-1	WNW	2	b	32	97	8	4000	Cu	2	-	2	0
996·0	-3	E'N	3	bc+	38	85	9	-	-	0	Ci St	7	1
998·2	•	-	0	b-	28	85	8	-	-	0	-	0	•
997·9	-1	NW	2	b	32	92	5	-	-	0	Ac Cu	1	0
993·9	-3	E	4	or°r°	40	97	6	1500	Nb	10	-	10	2
998·1	-2	E	1	Fo-	29	97	1	2150	St	10	-	10	•
998·6	0	N	1	fbc-	36	97	3	2150	St	4	-	4	0
997·9	-2	-	0	b	28	92	6	-	-	0	Ci	2	•
997·6	-2	N	1	bc	28	92	7	-	-	0	Ci St	7	•
997·4	-3	W	1	ffbc	35	92	3	800	St	6	-	6	2
985·6	-2	SE	7	oRS	40	85	7	•	Nb	10	-	10	9
992·6	-3	SSE	4	c/pr°	45	75	8	4000	Cu Nb	8	-	8	3
982·0	-6	ESE	5	or°	41	92	7	4000	Nb	10	-	10	•
992·0	-8	E'S	5	or°	40	97	7	5700	Nb	10	-	10	3
994·2	-4	ESE	4	mmc	37	85	4	1500	St	9	-	9	•
994·8	-6	SE'S	3	c	36	85	5	-	-	0	Ac St	10	•
997·4	-2	S'E	2	FFo	29	97	1	2150	St	10	-	10	•
998·3	-2	S	2	FFo	31	97	1	2150	St	10	-	10	2
996·1	-6	ESE	3	ci	35	92	5	-	-	0	Ac St	10	•
998·0	-5	SE	3	fo-	29	97	2	2150	St	10	-	10	•
1000·1	-3	SW'S	1	FFo	30	92	1	450	St	10	-	10	0
997·3	-5	NE'E	4	cR-	50	97	7	1500	Nb	8	-	8	4
997·9	-9	SW	4	orr	49	97	6	800	Nb	10	-	10	6
983·8	-11	SE	8	oRR	47	97	5	450	Nb	10	-	10	6
993·3	-9	SE	3	oRR	37	85	6	1500	Nb	10	-	10	•
994·9	-9	SE'E	4	or°	33	92	4	2500	Nb	10	-	10	•
995·6	-9	E'S	2	oddd	39	85	6	1500	Nb	10	-	10	•
995·2	-8	SSE	2	or°	36	92	4	2500	Nb	10	-	10	•
996·8	-9	E	4	FFo	36	92	1	2150	St	10	-	10	•
998·0	-8	SE	3	or°r°	39	92	5	1500	Nb	10	-	10	•
998·1	-3	ESE	3	ffc	39	97	2	1500	St	7	Ast	8	•
999·2	-5	ENE	2	Ffo	32	85	1	2150	St	10	-	10	1
999·8	-6	NE	1	fo-	33	97	2	2150	St	10	-	10	0
998·0	-6	S'E	4	c/r	44	75	7	1500	St Cu	6	Ast	10	•
983·6	-5	W	7	c/PR	51	86	7	4000	Cu Nb	8	-	8	7
984·7	-8	WSW	4	oR-	49	97	6	2500	Nb	10	-	10	5
986·3	-13	S	6	c/r	51	92	7	1500	Nb	9	-	9	6
990·6	-14	SSE	8	oRR	47	97	5	800	Nb	10	-	10	7
994·8	-11	S'E	5	or+	47	75	7	1500	Nb	10	-	10	3
998·3	-7	SSW	4	c	47	75	8	2500	St Cu	7	Ci St	10	4
991·4	-16	S	6	oRR	47	97	4	800	Nb	10	-	10	6

LONDON OBSERVATIONS.

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

	Heights above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.
		24 HOURS ENDED 9h.						YESTERDAY.				TO-DAY.	
Kew	18	Ofx	ofrof	ofr.rm	36	36	32	Tr	7	0·0	•	•	5
Croydon	244	bbcmsf	offcm	cvr.rm	39	38	37	Tr	2	0·0	•	•	4
Greenwich (Royal Obsy.)	149	offx	bFbsf	oddff	40	37	29	Tr	8	0·7	83	94	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	43	30	30		8	0·0	91	97	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0·0	•	•	•
Camden Square	119	xf	f	•	36	36	•	-	10	•	(At 18h)	100	•
Kensington Palace	80	bmksf	off	•	35	35	33	-	9	•	98	97	•
Hampstead Observatory	450	•	•	•	37	34	33	5	5	0·0	•	98	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
2·0	15h 15m	0·3	14-4h, 16h

Kew Observatory

Max.	Time.	Min.	Time.
4·8	17h 15m	0·1	1h 16m

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
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.

15-17 NOVEMBER 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·18 / 7·20	11·38 / 11·38	15·57 / 15·55
Greenwich	7·21 / 7·23	11·45 / 11·45	16·08 / 16·07
Wick	8·05 / 8·07	11·57 / 11·57	15·49 / 15·47
Valentia	8·03 / 8·05	12·2 / 12·2	16·4 / 16·4

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. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

SEA DISTURBANCE.

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

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

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

‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

† 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.

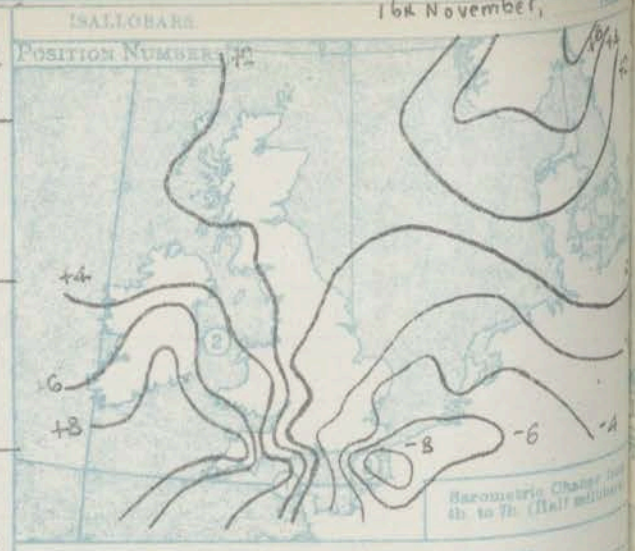
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 15th	WEATHER. 18h.-12h. 15th	WEATHER. 18h. 16th to 1h. 16th	WEATHER. 1h.-7h. 16th	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 15th Hours.
Lerwick	bcb	b	bbeprc	bc	45	37	•	-	-	0·2	24.00	4·7
Stornoway	b-bc	b-bc	b-bc	b-bc	47	30	•	-	-	-	-	6·0
Wick	b-bc	b-bc	b-bc	b-bc	40	30	•	-	-	-	-	•
Tiree	bc	bc	bc	bc	42	34	25	-	-	-	-	1·7
Fairn	bcb	bx	bbcx	bc	34	24	•	-	-	-	-	7·2
Aberdeen	bxcb	bbxm	bm,x	bx	42	27	24	-	-	-	-	6·6
Malin Head	bcc	crr	crrcbc	bc	41	39	•	0·6	1730	2	<21.00	0·0
Renfrew	Ffox	F F ox	Fx	Fbcmx	30	19	15	-	-	-	-	0·0
Edinburgh(Inchkeith)	bcmcft	oFfcff	bcifcmc	c	36	32	24	Tr	-	Tr	-	0·0
Leuchars	bxmb	bbmbxm	bmxbcx	bcxcx	43	23	15	Tr	-	-	-	6·7
Eskdalemuir	ofxbfxbx	bmofbcx	bcxbx	bxbcx	32	24	17	-	-	-	-	2·7
Tynemouth	bbcff	bcff	bcff	bc	39	32	27	-	-	-	-	•
Blacksod Point ...	rs	rs	rsc	rsbc	41	39	•	11	•	1	•	•
Donaghadee	bcc	cpr	prbc	bcq	45	39	•	0·4	1330	0·3	<21.00	•
Birr Castle	coir	orrir	cir	cir	41	36	35	5	11 00	0·3	<21·00	0·0
Holyhead	cmc	cr	irom	ocm	44	38	38	0·1	1630	2	<21 00	0·2
Liverpool (Bidston) ...	bcbim	bcm cm	cmd	dcdcm	38	33	32	-	-	1	22.00	1·1
Chester (Sealand) ...	bccm	com	om,s,s	~~orrm~~ omsm	41	34	32	-	-	3	22.00	1·8
Harrogate	b	bcF	oFF	offscr	42	29	28	-	-	1	2.30	6·1
Spurn Head	bc	bcoff	oFcpr	crcpr	40	30	•	-	-	0·4	24.00	6·8
Birmingham(Edgbaston)	mb	bcc	os,scrs	orcr	40	33	32	-	-	8	<21.00	3·5
Cranwell	bfxof	oFx	ofmrs	crsmc	32	29	29	0·1	-	5	22.00	0·0
Gorleston	fio	ffox	forq	orq	33	29	28	-	-	2	24.00	0·0
Valentia(Cahirciveen)	crccrrc	cr,crreR	errcpr	ccrr	52	41	40	26	<8·00	3	<21.00	0·1
Roches Point	corr	orcorr	orrc	circ	51	40	•	13	9·00	5	<21.00	•
Pembroke(St.Ann's H.)	cq	cqrrr	cqrr	c	47	41	•	9	1330	10	<21.00	3·0 0·3
Ross-on-Wye	fbcbmbc	coR	Rorr	orr	41	37	35	2	1730	14	<21.00	3·5
Leafield	bbc	cfor	RRo	o,rr	37	33	32	02	1730	12	<21.00	4·5
Winchester (Worthy Dn.)	bxbcmbc	cm,orm	orrm	orform	42	39	38	03	17.30	17	<21.00	4·2
S. Farnborough ...	bmxfbcm	bcm,orr	crcrm	orcrf	42	36	34	01	17.30	5	<21.00	4·3
London (Kew Obsy.) ...	ofx	ofx of	ofcrcm	orrcm	36	36	32	Tr	-	7	<21.00	0·0
Croydon	bbcmxofbc	ofcmorr	comrr	orrcmc	39	38	37	Tr	17.30	2	<21.00	0·0
Shoeburyness	bcxofx	oFc	cr	orr	40	38	37	-	-	8	<21.00	0·0
Clacton-on-Sea ...	bcmofx	offx	offcpd	cpr	32	32	31	-	-	2	<21.00	0·0
Felixstowe	cfof	oF	ofcrr	orrcrm	34	33	31	Tr	-	6	<21·00	0·0
Lympne	bfmbcm	bccprc	orrm	orcrrm	44	37	36	01	17.30	13	<21·00	5·4
Scilly (St. Mary's) ...	cr	orrcpf	cirorf	cp	53	48	•	4	11·00	9	<21·00	0·3
Falmouth (Pendennis)	bccrq	omRyf	oRmq	rm q	51	49	•	13	11·00	6	<21·00	0·8
Plymouth(Mt.Batten)	cxbccrq	coyRRm	cbqcoRc	orrrc	52	48	46	9	11·00	8	<21·00	1·0
Portland Bill	bcc	oRRm	o	oprR	50	47	•	3	16 30	17	1·30	•
Southampton(Calshot)	cbcmm	bccmcc	orqRRmf	crRRrm	47	44	43	0·2	17·30	25	<21·00	3·9
Jungeness	bcmbc	bccprc	coRr	orrcrr	48	40	•	Tr	16·30	12	<21.00	•
Guernsey	cbccv	Corcr	orccc	corrq	51	47	44	5	14·30	13	<21·00	2·7

† For code see page 4

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



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	15th 10h	Scotia	SSE	4	C+	45	53
3	16th 3h	Dieppe	SSW	5	r.c.	48	53

GENERAL INFERENCE.

A deep depression over the English Channel will pass away eastward and fill up, and a ridge of high pressure will follow. After some further rain in the southeastern area, bright intervals will spread to all districts with local wintry showers.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 16th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind northeast, becking north or northwest, fresh or strong, moderating; dull, some rain at first; mainly fine later but local wintry showers; cold, ground frost at night.	A fine interval over Great Britain with night frost and local fog
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind northerly, fresh or strong locally at first, moderateing later; bright periods, local wintry showers; cold, ground frost at night.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind northeast, backing north to northwest, moderate, falling light; bright periods; local wintry showers; cold, frost at night.	South Cone still flying in districts 1, 5 and 6. South Cone hoisted at 10h.45m. G.M.T. yesterday in district 2, and at 19h. yesterday in district 10.
12. S.W. Scotland & Isle of Man	Light northerly breeze; fine apart from local fog; cold, frost at night.	
13. A.W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind northwest, light or moderate; sleet or snow showers but bright intervals; cold, frost at night.	A N. Cone hoisted at 10h. 45 m. yesterday in districts 7 and
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind north to northwest, moderate, falling light and variable; fine apart from local wintry showers; local fog night and morning; cold, frost at night, especially inland.	

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

Fc 1468/1295. No.41. 2500B. 14100. 11/29.

SYNOPTIC CHART FOR 7h. SATURDAY, 16TH NOVEMBER, 1929

Scale – 1:10,000,000

Nautical Miles

Statute Miles

HIGH

Bar.

23 Fine +1

12 Fine +3

Rising

1012

23 Fine 0

1010

34 Fine +3 Slowly

1008

Barometer

30 O'cast. 0

Rising

38 Fine

Slowly

37 Fine

34 Fine

30 Fine

23 Mist

41 Fine

Barometer

43 Fine

Barometer

Rising

38 Rain

42 Cloudy

42 Rain

Rising

41 Cloudy

Steady

41 O'cast.

49 LOW Showers

Briskly

49 Showers

52 Cloudy

Backing

48 Rain

52 Showers

50 Cloudy

54 Rain

52 Showers

53 Cloudy

57 Cloudy

52 Cloudy

43 Cloudy

HIGH

43 Rain

LOW

39 Rain

32 Snow

Barometer

41 Fine

42 Fine

Cloudy

Barometer

41 Cloudy

Rising

36 Fog

37 O'cast.

Steady

37 Rain

34 Rain

Backing

28 Cloudy

Briskly

37 Rain

32 Cloudy

992

994

996

998

1000

1002

1004

1006

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 ¼ clouded. ◑ sky ¼ to ½ clouded. ◕ sky more than ½ clouded. ● overcast sky. ⊗ rain falling. ✱ snow. ▲ hail. ≡ fog. ⁼ mist. ⚡ lightning. ⊼ thunderstorm.

SEA DISTURBANCE.—Very Rough.

In ICELAND barometric change from 7h. to 7h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. SATURDAY 16th NOVEMBER 1929. No. 320

STATIONS.	Height above M.S.L. in feet	Observations at 1h. G.M.T. 16th: Barom. at M.S.L. mb.	Change in 3 Hours. mb.	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. 16th: Barom. at M.S.L. mb.	Change in 3 Hours. mb.	Wind: Direc.	Wind: Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud: Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-9
Lerwick	34	995.4	-1	NW	1	bc	38	85	8	1500	StCu	2	A.St	4	995.6	+1	NW	1	bc	38	92	8	1500	StCu	2	Ci.St	3	.
Stornoway	20	999.0	0	N	1	b-	.	.	8	.	.	.	.	0	999.8	+2	N	1	b	37	85	7	4000	Cu	2	-	2	2
Wick	81	996.8	-1	W	2	bc+	31	92	8	4000	Cu	3	Ci	4	996.8	+1	WNW	2	bc	34	97	8	2500	Cu	3	-	3	0
Tiree	33	.	.	.	.	.	.	.	.	.	.	.	.	.	997.6	+1	NE'N	3	b	38	75	9	-	-	0	Ast	1	1
Nairn	81	.	.	.	.	.	.	.	.	.	.	.	.	.	998.0	.	WSW	1	bc+	28	85	8	1500	St	7	-	7	.
Aberdeen	87	.	.	.	.	.	.	.	.	.	.	.	.	.	997.3	+1	WNW	3	b	30	92	7	2500	CuNb	1	-	1	0
Malin Head	51	995.0	+2	ENE	4	bc	41	85	7	4000	Cu	2	A.Cu	7	997.3	+2	NE	4	bc	41	92	8	4000	StCu	2	Cu.Cu	5	4
Renfrew	86	.	.	.	.	.	.	.	.	.	.	.	.	.	998.0	+2	-	0	mmc	23	97	4	4000	StCu	8	Ast	10	.
Edinburgh (Inchkeith)	190	996.3	-1	N	2	c	37	85	8	800	StCu	5	A.St	10	997.1	+1	NE	3	c	37	75	7	4000	StCu	4	Ast	9	0
Leuchars	30	.	.	.	.	.	.	.	.	.	.	.	.	.	997.3	+1	NW	2	c	32	85	7	2500	StCu	7	Ci	8	.
Eskdalemuir	794	.	.	.	.	.	.	.	.	.	.	.	.	.	995.6	+1	NNE	4	bc	32	92	7	2500	StCu	7	-	7	2
Tynemouth	67	995.9	-1	E	2	bc/+	40	75	7	1500	Cu	6	-	6	994.5	0	ENE	2	bc	42	65	7	2500	Cu	4	Ci	6	5
Blacksod Point ...	18	992.8	+3	SE	5	c	41	85	7	.	-	0	A.St	10	997.3	+4	E	3	bc-	43	65	8	.	-	0	ACu	6	4
Donaghadee	40	.	.	.	.	.	.	.	.	.	.	.	.	.	993.7	+3	SE	6	bc	41	75	8	4000	StCu	4	Cu.Cu	7	.
Birr Castle	178	.	.	.	.	.	.	.	.	.	.	.	.	.	993.2	+8	SW	1	or.	38	92	7	2500	Nb	10	-	10	5
Holyhead	26	996.6	-1	E	3	0	40	97	5	1500	St	10	-	10	990.8	+4	E'N	6	c	42	92	6	1500	St	9	-	9	.
Liverpool (Bidston) ...	180	.	.	.	.	.	.	.	.	.	.	.	.	.	989.8	+2	E'N	3	(rec) mmc	39	85	4	1500	St	10	-	10	.
Chester (Sealand) ...	16	.	.	.	.	.	.	.	.	.	.	.	.	.	999.0	+4	ENE	4	0	38	85	5	1500	St	10	-	10	.
Harrogate	478	.	.	.	.	.	.	.	.	.	.	.	.	.	992.1	0	N'E	2	or.r.	34	92	3	1150	St	10	-	10	.
Spurn Head	29	992.1	-2	S'E	5	c	42	92	7	4000	CuNb	5	A.St	10	989.5	-1	SE'E	5	c-	44	85	7	4000	Cu	8	-	9	3
Birmingham (Edgbaston)	536	.	.	.	.	.	.	.	.	.	.	.	.	.	997.3	+2	ENE	5	0	36	97	5	800	Nb	10	A.St	10	.
Cranwell	358	990.8	-7	ESE	4	or.r.r.	35	92	4	800	Nb	10	-	10	988.9	-1	NE'E	3	c	37	92	7	800	StCu	9	Ast	10	6
Gorleston	14	992.6	-7	S'E	7	or.	42	97	7	2500	Nb	10	-	10	988.5	-4	SE	6	or.	42	97	7	1500	Nb	10	-	10	4
Valentia (Cahirciveen)P	50	988.1	+5	NW	3	c	50	97	8	.	CuNb	10	-	10	996.3	+6	N	4	cr.r.	42	85	7	1500	Nb	10	-	10	4
Roches Point	22	.	.	.	.	.	.	.	.	.	.	.	.	.	992.7	+8	N	4	c	41	92	7	1500	CuNb	9	-	9	4
Pembroke (St. Ann's H.)	150	978.7	0	ENE	5	cr.r.	43	97	7	800	StCu	10	-	10	985.4	+6	NNE	3	c-	41	92	7	2500	Cu	6	Cu.Cu	10	.
Ross-on-Wye	225	.	.	.	.	.	.	.	.	.	.	.	.	.	985.5	+4	NE	4	orr	38	92	6	800	Nb	10	-	10	.
Leafield	612	.	.	.	.	.	.	.	.	.	.	.	.	.	983.3	0	NE'E	5	oRR	36	97	6	450	Nb	10	-	10	.
Winchester (Worthy Do.)	272	.	.	.	.	.	.	.	.	.	.	.	.	.	980.0	-2	NNE	4	or.	42	97	6	450	Nb	10	-	10	.
S. Farnborough ...	287	.	.	.	.	.	.	.	.	.	.	.	.	.	980.6	-2	NE	4	od.d.	41	97	3	220	St	10	-	10	.
London (Kew Obsy.) ...	18	.	.	.	.	.	40	.	.	.	.	.	.	.	981.2	-3	ENE	5	0	41	92	5	800	St	10	-	10	.
Croydon	244	987.7	-8	SE	4	or.r.	39	97	5	1500	Nb	10	-	10	981.2	-3	ENE	4	0	40	97	5	450	St	10	-	10	.
Shoeburyness	11	.	.	.	.	.	.	.	.	.	.	.	.	.	983.2	-5	E	4	orr	42	97	7	800	Nb	10	-	10	3
Clacton-on-Sea ...	54	.	.	.	.	.	.	.	.	.	.	.	.	.	985.2	-5	ESE	5	c	42	92	7	2500	Nb	8	-	8	6
Felixstowe	15	.	.	.	.	.	.	.	.	.	.	.	.	.	986.1	-5	E'S	6	or.r.	42	92	6	450	Nb	10	-	10	.
Lympne	350	988.8	-9	SE	6	or.r.	38	97	6	800	Nb	10	-	10	981.6	-8	SE	4	orr	45	97	4	1150	St	10	-	10	.
Scilly (St. Mary's) ...	163	977.4	0	NNW	9	c/r	51	92	7	4000	StCu	9	-	9	986.6	+8	NW'N	7	c/pr.	49	92	7	4000	StCu	9	-	9	2
Falmouth (Pendennis)	200	977.5	-8	W'S	8	oR-	50	76	6	2500	Nb	10	-	10	985.7	+5	NWN	5	or	49	85	7	2500	Nb	10	-	9	1
Plymouth (Mt. Batten)	82	.	.	.	.	.	.	.	.	.	.	.	.	.	982.9	+9	NW	3	cr.	48	85	7	1500	StCu	9	-	10	0
Portland Bill	32	979.6	-9	SW	7	c/pr.	52	85	8	1500	Nb	9	-	9	979.3	+4	NW	4	o/pr.	49	92	7	1500	Nb	10	-	10	0
Southampton (Calshot)	10	983.3	-8	SE'S	4	cr	49	92	7	1500	Nb	7	A.Cu	9	978.3	-4	N	4	crr	48	92	6	1500	Nb	8	Ast	10	6
Dungeness	30	988.0	-12	SSE	6	odd	41	92	6	1500	Nb	10	-	10	980.4	-8	SSW	6	crr	51	97	7	1500	Nb	7	Cu.St	8	6
Guernsey (St. Peter Port)	173	985.0	-6	WSW	4	c	52	85	6	2500	StCu	8	-	8	983.0	+3	W	5	c-	52	92	7	2500	StCu	8	-	9	2

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-14h. to 9h. 15th. °F.	Temperature. Max. 9h.-17h. 15th. °F.	Rainfall† Night 17h.-9h. 14-15th. mm.	Rainfall† Day 9h.-17h. 15th. mm.	Sunshine. Sunrise to Sunset. 15th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bc	27	39	-	-	7.0
Douglas (I. o. M.) ...	co	co	33	43	2	-	0.8
Llandudno ...	c	c	35	43	2	-	1.0
Colwyn Bay ...	cbccb	bcco	35	43	3	-	1.2
Rhyl	bc	c	31	45	1	-	2.2
Wallasey	xF	bcfco	32	39	0.3	-	1.0
Southport	xfobc	bcco	28	36	-	-	0.8
Blackpool	bf	co	25	37	-	-	0.2
Morecambe ...	cbcc	c	26	38	0.2	-	1.0
Ilkley	xmo	ofx	26	31	-	-	0.0
Cleethorpes	xfb	bffx	28	41	-	-	5.0
Mablethorpe. ...	bxm	bxmF	27	39	-	-	5.6
Skegness	bfx	f	26	35	-	-	0.0
Aberystwyth ...	xbco	or	30	42	-	1	0.9
Bath	fbcb	bccr	26	42	-	1	2.9
Cheltenham ...	xbba	co	26	41	-	-	2.4
Leamington Spa ...	bm	bm	24	37	-	-	0.5
Lowestoft	f	f	29	32	-	-	2.2
Harwich & Dovercourt	xocf	ocf	29	35	-	-	0.0
Maldon	xf	oof	26	32	-	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcc	or	36	45	-	8	1.4
Bude	cd	cd	30	47	-	5	0.4
St. Ives	gr	gr	39	49	2	2	0.1
Penzance	cr	crr	37	53	1	8	0.3
Paignton	bcmxbc	orPoR	30	48	-	5	2.2
Torquay	bcmf	bmoroR	34	50	-	3	2.6
Jersey	rbcc	bccr	34	50	2	7	2.6
Weymouth	fbbc	cpr	31	49	-	1	3.8
Bournemouth ...	cbcb	bcor	28	47	-	0.5	4.4
Ventnor	bcb	bou	35	47	-	-	3.1
Portsmouth (S'thsea)	bc	co	29	47	-	-	4.1
Bognor Regis ...	bbcb	bbcc	30	47	-	-	4.3
Littlehampton ...	bc	bcc	26	48	Trace	-	4.0
Worthing	bc	bcc	28	47	Trace	-	4.8
Brighton	bc	bcro	29	47	-	0.3	5.2
Eastbourne	bor	or.o	29	47	0.1	0.5	6.0
Hastings‖	xmbbc	bcco	32	46	0.2	-	6.1
Folkestone	bmb	bbcor	33	48	-	Trace	6.3
Dover	fbbo	or.	32	45	-	Trace	6.3
Deal	xb	bbc	31	43	-	-	5.5
Tunbridge Wells ...	b	bbco	25	45	-	-	5.4
Ramsgate	bx	bbc	32	44	Trace	-	3.4
Margate	cfbc	bcm	34	44	-	-	0.2
Southend	ocff	coffo	28	38	-	Trace	0.2

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

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

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

No. 321

Rainfall

	Day. mm.	Night mm.
		-
		-
		-
		-
		-
		-
		-
		-
		0.2
		-
		-
		-

SWELL.

Code No.	Direc.	Unusual Phenomena.
0	W	-
6	SW	7
0		-
0		-
7	S	-
7	S	-
7	SW	-

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24(30)82 Sunday 17th November 1929. 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	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	997.7	+2	NE	2	c/r	40	85	7	1500	Nb.	5	C.St.	8	•
Stornoway	1000.4	+1	N	1	bc	40	85	8	4000	Cu.	3	C.St.	4	•
Wick	999.9	+2	NW	2	bc	39	85	8	2500	Cu.	3	C.Cu.	5	•
Tiree	1000.7	+3	NE'E	3	bc+	42	65	9	-	-	0	C.St.	7	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Aberdeen	999.0	+1	NW	3	bc+	40	85	8	2500	Cu.	2	C.	3	1
Malin Head	1000.6	+2	N.	2	bc	44	75	9	4000	Cu.	1	C.Cu.	7	•
Renfrew	1000.4	+3	NW	3	b-	39	92	5	-	-	0	C.	1	2
Edinburgh (Inchkeith)	999.6	+2	NNE	3	c	40	65	8	-	-	0	A.St.	8	•
Leuchars	999.8	+1	NW	2	b	40	65	6	4000	Cu.	1	A.Cu.	1	2
Eskdalemuir	998.1	+3	NNE	3	bc	37	85	7	1500	St.Cu.	5	C.	6	3
Tynemouth	996.1	+1	NNE	3	bc+	44	75	7	1500	Cu.Nb.	7	-	7	•
Blacksod Point	1001.2	+2	-	0	c	44	65	8	•	St.Cu.	9	-	9	•
Donaghadee	998.3	+3	E'N	3	bc	43	85	8	4000	Cu.	4	C.Cu.	6	•
Birr Castle	999.7	+4	N.	1	c	40	85	6	-	-	0	C.Cu.	9	•
Holyhead	996.5	+5	NE'E	4	c/o	45	85	6	4000	Nb.	9	A.St.	10	1
Liverpool (Bidston)	994.1	+3	NE'E	4	bc-	43	75	6	2500	St.Cu.	1	C.St.	5	•
Chester (Sealand)	995.6	+4	NNE	3	bc-	43	75	5	4000	St.Cu.	4	A.Cu.	7	2
Harrogate	994.4	+1	N'E	3	c	42	65	7	2500	Nb.	9	A.St.	10	•
Spurn Head	991.1	+1	E'S	6	c	45	85	7	4000	St.Cu.	5	C.Cu.	8	•
Birmingham (Edgbaston)	991.7	+4	NNE	4	o/c	39	92	4	800	Nb.	10	-	10	2
Cranwell	991.2	+3	NE	4	c/o	41	85	7	1500	St.Cu.	10	-	10	2
Gorleston	988.3	-1	E'N	6	o	41	97	7	2500	Nb.	10	-	10	•
Valentia (Cahirciveen)	1001.3	+3	NNW	3	bc	46	65	8	4000	Cu.	3	C.Cu.	5	2
Roches Point	1000.0	+6	N	4	c	40	85	7	1500	Cu.Nb.	8	-	8	•
Pembroke (St. Ann's H.)	994.4	+5	NNE	3	dd/o	42	97	7	4000	St.Cu.	10	-	10	•
Ross-on-Wye	991.3	+5	NNE	4	c	41	75	6	2500	St.	10	-	10	2
Leafield	988.9	+6	N'E	4	o/c	38	92	7	1500	Nb.	10	-	10	2
Winchester (Worthy Dn.)	987.7	+8	NW	5	c/o	41	85	7	4450	St.Cu.	10	-	10	2
S. Farnborough	986.2	+8	NW	3	o/3/3	36	97	6	800	Nb.	10	-	10	2
London (Kew Obsy.)	985.1	+6	NNW	5	o/3o	37	92	6	800	Nb.	10	-	10	2
Croydon	984.0	+6	N	4	o/+	41	97	3	220	Nb.	10	-	10	2
Shoeburyness	984.8	0	NE	6	o/c	43	97	7	1500	Nb.	10	-	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•
Felixstowe	985.2	0	NE'N	6	od	43	92	6	4450	St.	10	-	10	2
Lympne	987.3	-2	E'N	3	c-	52	97	6	1500	Nb.	8	-	8	2
Scilly (St. Mary's)	994.9	+6	NNW	7	c/PR	46	92	7	4000	St.Cu.	9	-	9	•
Falmouth (Pendennis)	992.8	+6	N'W	5	c/o	46	85	7	2500	Nb.	7	A.St.	10	•
Plymouth (Mt. Batten)	991.8	+7	NNW	4	c/o	45	75	7	1500	Nb.	10	-	10	2
Portland Bill	988.2	+9	NW	5	o/+	42	92	6	1500	Nb.	10	-	10	2
Southampton (Calshot)	987.6	+9	NW	5	c	43	85	7	800	St.Cu.	10	-	10	2
Dungeness	987.1	+4	WSW	4	c-	51	92	7	2500	Nb.	8	C.Cu.	9	•
Guernsey (St. Peter Port)	991.0	+6	NW	3	o-	48	92	7	1500	Nb.	10	-	10	•

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	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1001.6	+4	NNE	3	c	40	65	8	1500	St.Cu.	8	-	8	•
Stornoway	1003.3	+4	NNW	5	bc/c	36	92	6	4000	Cu.Nb.	7	-	7	5
Wick	1000.7	+2	WNW	2	bc	33	85	8	2500	Cu.	4	-	4	0
Tiree	1002.9	+2	NNE	3	bc+	42	75	9	4000	St.Cu.	3	Cu.St.	7	1
Nairn	1001.7	•	W	1.	bc	33	85	8	4000	Cu.	4	-	4	•
Aberdeen	1001.6	+3	WNW	3	bc	35	92	8	2500	Cu.Nb.	2	A.Cu.	3	0
Malin Head	1002.7	+3	N	2	c	44	75	9	5700	St.Cu.	3	Cu.St.	9	1
Renfrew	1003.2	+3	-	0	bc	30	85	5	-	-	0	C.	6	•
Edinburgh (Inchkeith)	1002.4	+4	N	2	bc	39	75	8	4000	St.Cu.	5	A.St.	7	0
Leuchars	1001.6	+4	NW	1	c+	34	85	6	4000	St.Cu.	8	-	8	•
Eskdalemuir	1001.2	+3	N	3	bc	34	85	8	-	-	0	C.	6	•
Tynemouth	999.2	+3	NNW	2	bc	38	92	6	1500	Cu.Nb.	6	-	6	2
Blacksod Point	1002.4	+1	E	2	c	42	65	7	•	-	0	A.Cu.	9	3
Donaghadee	1001.0	+4	NE	3	bc+	43	75	8	4000	St.Cu.	2	A.St.	6	3
Birr Castle	1002.7	+4	NW	1	c	36	97	6	-	-	0	A.Cu.	8	•
Holyhead	1000.6	+5	NNE	4	c	46	85	6	4000	St.Cu.	8	Cu.St.	10	1
Liverpool (Bidston)	999.5	+7	N	2	o	40	85	6	4000	Nb.	10	-	10	•
Chester (Sealand)	998.8	+7	N'W	2	mmo	41	85	4	2500	St.	10	-	10	•
Harrogate	999.0	+5	NNW	1	bc	36	92	6	-	-	0	Cu.St.	7	•
Spurn Head	995.0	+3	ENE	5	c	44	85	7	4000	Cu.Nb.	5	Cu.Cu.	8	6
Birmingham (Edgbaston)	996.9	+6	NNE	4	mist	39	85	4	2500	Nb.	3	A.Cu.	6	•
Cranwell	995.9	+7	NW	4	bc-	39	85	7	2500	St.Cu.	6	-	6	•
Gorleston	990.7	+3	NE	6	o/c	43	92	6	1500	Nb.	10	-	10	4
Valentia (Cahirciveen)	1003.2	+2	NE'N	2	bc	39	85	8	4000	St.Cu.	3	-	3	4
Roches Point	1003.8	+6	N	3	bc	39	85	8	2500	Cu.Nb.	3	-	3	4
Pembroke (St. Ann's H.)	999.9	+5	NNE	2	c	43	85	7	4000	St.Cu.	3	A.Cu.	10	2
Ross-on-Wye	997.7	+8	NW/N	2	c	41	85	5	1500	St.	9	-	9	•
Leafield	995.3	+7	N'W	4	c	38	92	7	2500	St.Cu.	10	-	10	•
Winchester (Worthy Dn.)	995.3	+9	NNW	4	c/o	40	85	7	1500	St.Cu.	10	-	10	•
S. Farnborough	993.9	+10	~~NW~~ N	3	o/+	38	92	6	800	Nb.	10	-	10	•
London (Kew Obsy.)	993.0	+11	SW	4	o/+	40	85	5	800	Nb.	10	-	10	•
Croydon	992.8	+10	~~NW~~ N	4	o/c	40	85	4	220	Nb.	10	-	10	•
Shoeburyness	990.2	+7	NNE	6	c	41	97	7	1500	Nb.	10	-	10	•
Clacton-on-Sea	988.4	+6	NE	5	o/+	42	92	6	1500	St.	10	-	10	5
Felixstowe	989.9	+7	N	5	o/c	41	97	5	220	Nb.	10	-	10	6
Lympne	986.4	+9	N	6	o/c	43	97	5	450	Nb.	10	-	10	•
Scilly (St. Mary's)	1001.3	+6	N'W	6	c	47	85	8	4000	St.Cu.	8	-	8	6
Falmouth (Pendennis)	1000.1	+7	N'W	3	c-	45	85	7	4000	St.Cu.	8	-	8	1
Plymouth (Mt. Batten)	999.3	+8	NNW	3	c	43	85	6	800	Nb.	10	-	10	2
Portland Bill	994.7	+11	~~NW~~ N	4	c	44	75	6	1500	St.Cu.	9	A.St.	10	6
Southampton (Calshot)	993.7	+8	NW/N	5	c/o	42	85	6	1500	St.Cu.	10	-	10	0
Dungeness	986.6	+10	WSW	4	od	45	97	7	1500	Nb.	10	-	10	4
Guernsey (St. Peter Port)	998.0	+9	NW	3	o-	45	85	5	1500	Nb.	10	-	10	6

LONDON OBSERVATIONS.

Day 7h.-13h., Kew & Croydon. 9h.-18h., Kensington. 9h.-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning. (Mean hours ended 9h.)	Weather. Afternoon. (Mean hours ended 9h.)	Weather. Night. (Mean hours ended 9h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 7h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.
Kew	18	Rcrs	oscrc	orcm$_o$	42	35	30	21	1	0.0	*	*	4
Croydon	244	0mfrr	offrrm	orcm$_o$	43	35	32	22	2	0.0	*	*	4
Greenwich (Royal Obsy.)	149	orr	orrid	odocf	43	36	28	18	0.3	0.0	95	84	2
City (Bunhill Row)	39	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	43	37	23	23	0.0	0.0	96	92	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	24h /			*	*	*
Camden Square	110	or	or	*	42	37	*	#	#	*	*	94	*
Kensington Palace	80	orr	orr	*	42	37	30	23	1	*	[At 18h] 82	87	*
Hampstead Observatory	460	*	*	*						0.0	*		*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 7h. G.M.T. 17th

South Kensington

Max.	Time.	Min.	Time.
0.6	9h.16m	0.3	24h.16m

Kew Observatory

Max.	Time.	Min.	Time.
0.2	12h17	0.1	12h16

POLE STAR RECORD at Greenwich Obsy.

Exposure from 16th 17 h. 00 m. to 17th 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 30	0.45	6
δ Ursae Minoris	13 30	0.45	6

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-18th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7 20	11 38	15 55
	7 22	11 38	15 54
Greenwich	7 23	11 45	16 7
	7 24	11 45	16 5
Wick	8 7	11 57	15 47
	8 10	11 58	15 45
Valentia	8 5	12 24	16 46
	8 7	12 26	16 45

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 skys
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)=="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain. rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—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 20 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.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

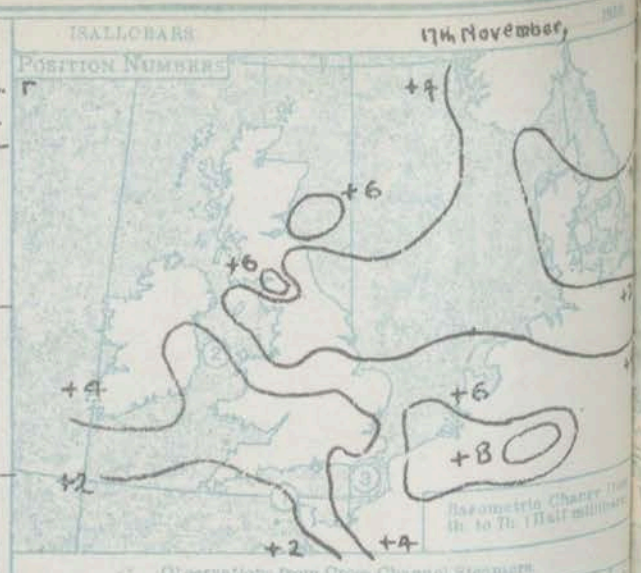
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

SUN 16h. Hours.

STATIONS.	WEATHER. 7h.-13h. 16h.	13h.-18h. 16h.	18h. 16h. to 1h. 17h.	1h.-7h. 17h.	TEMPERATURE. MAX. Day. 7h.-13h.	MIN. Night. 13h.-7h.	MIN. on Grass.	RAINFALL.† Day 7h.-18h. mm	began.	Night 18h.-7h. mm.	began.	Hours.
Lerwick	bcc ir	c	cbc-lil	bc	41	34	•	2	9.00	-	-	1.2
Stornoway	b-bc	b	b-bc	bcc	40	30	•	0.3	16.30	-	-	4.6
Wick	b-bc	b-bc	cirsc	b-bc	41	33	•	-	-	1	<21.00	•
Tiree	bcv	bcv	bc w	bc	42	40	35	-	-	-	-	4.1
Nairn	bc	bcx	bcx	cbpr	35	30	•	-	-	0.3	1.30	4.7
Aberdeen	bxb	bcbrs	bx	bxcirS	40	30	25	0.3	14.30	3	5.30	4.8
Malin Head	bcv	bccv	c.	cbcv	45	43	•	-	-	-	-	4.4
Renfrew	cfgxcm	bbcm, x	bcxm	bcxm	41	20	16	-	-	-	-	4.1
Edinburgh(Inchkeith)	c	cbc	b-bc	bcm m	41	34	29	Tr.	<8.00	-	-	1.3
Leuchars	c bxmcm	bmbc,cxm	cxm, bx	bx	41	26	17	-	-	-	-	4.9
Eskdalemuir	bxbcbr	bcbr bc	bc x	bcx	38	26	19	0.2	11.00	-	-	1.2
Tynemouth	bc	bc	bcp	bcoir	44	35	32	-	-	4	22.00	•
Blacksod Point ...	c	c	cbc	bx	46	35	•	-	•	Tr.	•	•
Donaghadee	bc	bc	b bc	bc	44	36	•	-	-	-	-	•
Birr Castle	oir c	c	c bc	bcbfx	41	24	15	1	<8.00	-	-	0.0
Helyhead	cm, ir	ir m	cm	cm c	46	40	32	0.1	11.00	-	-	0.0
Liverpool (Bidston) ...	cmcm	bccm	bcbm	bcex	43	35	30	-	-	-	-	1.86
Chester (Sealand) ...	omnc	cm omn	omcm	bcimx	44	29	23	-	-	-	-	0.3
Harrogate	ofrc	cir cbc	bc	bcx	42	33	26	1	<8.00	-	-	0.8
Spurn Head	c	cpr c	cphprc	c	46	38	•	Tr.	14.30	1	22.00	2.9
Birmingham(Edgbaston)	oir m	ormr	bcm	bcb	40	32	27	0.3	11.00	-	-	0.0
Cranwell	cir	cprgc	cm pr	cm	42	33	31	1	9.00	0.1	<21.00	0.1
Gorleston	3 r 90	oir 9	or rcq	cgor	43	40	39	2	<8.00	1	<21.00	0.0
Valentia(Cahirciveen)	cir bc	bcp	cr bc	bcbx	48	35	29	0.4	<8.00	1	<21.00	4.1
Roches Point	cir c	cbc	bc bx	bx	43	31	•	1	<8.00	Tr.	-	•
Pembroke(St.Ann's H.)	cdd	c	cir	cid	44	40	•	1	9.00	0.4	<21.00	0.0
Ross-on-Wye	rcco	c	cbcmcm	bcx	41	30	24	0.5	<8.00	-	-	0.0
Leafield	oir o	oir o	cbc	bc	39	31	26	0.1	<8.00	-	-	0.0
Winchester (Worthy Dn.)	ir d	cir	cd c	cbcbm	42	31	20	1	<8.00	0.2	<21.00	0.0
S. Farnborough defers	ir 45	rsrsrm	orr r	obcm x	41	32	24	19	<8.00	2	<21.00	0.0
London (Kew Obsy.) ...	Rcrs	osrc	orom	cm	42	36	30	21	<8.00	1	<21.00	0.0
Croydon	anr inf ir	offrddd	f m	cm om	43	35	32	22	<8.00	2	<21.00	0.0
Shoeburyness	arr rq	ir crpr q	cpr c	c	45	37	36	19	<8.00	Tr.	<21.00	0.0
Clacton-on-Sea ...	cgrr	ogrr	ogd c	c	44	38	37	9	<8.00	Tr.	<21.00	0.0
Felixstowe	arr mm	ad ir m	or rcm	cor z	43	39	38	4	<8.00	0.5	<21.00	0.0
Lympne	arr fcir	cr rm q	or rcm	cm	53	36	35	11	<8.00	2	<21.00	0.3
Scilly (St. Mary's) ...	cp	cp	bbc	bc	49	41	•	3	<8.00	-	-	0.0
Falmouth (Pendennis)	cr c	cr cbc	cbcP	bc	50	40	•	2	<8.00	2	<21.00	0.2
Plymouth(Mt.Batten)	cr m	cr m	cm	bwm	49	36	31	0.1	<8.00	-	-	0.0
Portland Bill	cbir	cr rez	b	bbcz	50	39	•	2	<8.00	-	-	•
Southampton(Calshot)	cr rcm c	cp rcm	cir mc	cm bm	48	33	29	0.3	<8.00	0.1	<21.00	0.6
Dungeness	cr z	cr cor	odc	c	55	38	•	1	<8.00	0.1	<21.00	•
Guernsey	cr	cr cr	cbc	bc	52	41	32	1.2	<8.00	0.1	<21.00	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp.: Air.	Temp.: Sea.
2	16th 10½	Scotia	NE	7	orr	45	53

GENERAL INFERENCE.

A depression over Holland is moving east, while a ridge of relatively high pressure is developing over the British Isles. Bright intervals will be experienced in all districts of the British Isles, with occasional wintry showers, especially in the north and on the east coast. Approaching depressions from the Atlantic, however, will cause unsettled weather in western districts later.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 17th November, 1929.

Districts.	Forecast	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Light variable or northerly winds; bright periods, local mist or fog morning and evening. Rather cold, with frost at night.	Further bright periods in the North and East, unsettled in the West and South.
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 northerly winds; veering; becoming moderate southerly; occasional wintry showers; cold, ground frost at night.	
16. Orkneys and Shetlands	Light or moderate northerly winds, bright periods; local wintry showers; cold; frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable or northeasterly winds, becoming moderate to fresh southerly later, bright periods; local wintry showers; rather cold, with ground frost at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1045 G.M.T — C. C. Dawson, C.B., D.Sc., F.R.S., Dir.

† For code see page 1

Trace = rain has fallen, but amount less than

November,

+6

+8

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

Remarks.

	Temp.:	
	Air.	Sea.
orr	45	53

Holland is
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sure is
British
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Atlantic,
unsettled
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Further Outlook.

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t and South.

SYNOPTIC CHART FOR 7h. SUNDAY, 17TH NOVEMBER, 1929.

Scale – 1:10,000,000

Nautical Miles 0 100 200 300

Statute Miles 0 100 200 300

HIGH
Barometer
3
Fine
+3 rising

LOW

LOW

LOW

HIGH

Barometer
falling
slowly.

Barometer
rising.

Barometer
rising
briskly.

Barometer

Barometer

Barometer

Showers

Cloudy

Fine

Fine
+3
slowly.

Cloudy
+1

Cloudy
+4

Fine
rising.

Showers

Fine

Cloudy

Fine

Sleet

Fine

Cloudy

Fine

Cloudy

Fine

Cloudy

Fog

Fine

Cloudy

Cloudy

Rain

Cloudy

Cloudy

Fine

Cloudy

Fine

Cloudy

Fine
rising

Cloudy

Rain

Cloudy

Cloudy

Drizzle

Ocast

Rain

Cloudy

Cloudy

Rain

Cloudy

Cloudy

Cloudy

Fine

Cloudy

Cloudy

Ocast

Fine

Cloudy

Cloudy

Fine

Fine

Fine

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Sunday, 17th November 1929. No. 321.

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	Rain 0-1
Lerwick	34	1004.4	+3	NW	2	bc	37	85	8	1500	Cu	2	A.Cu	4	1008.1	+5	NW	3	bc	36	85	8	1500	StCu	3	ACu	5	.6
Stornoway	30	1003.4	+5	NNE	1	bc-	*	*	8	*	*	*	*	3	1011.8	+5	N	4	c	36	75	7	2500	Nb	6	ACu	8	3
Wick	81	1004.8	+3	N	4	c	40	76	8	2500	StCu	6	A.St	8	1009.9	+5	N	3	bc	38	85	8	2500	StCu	3	CiSt	5	4
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.7	+4	NE'N	4	bc	41	65	9	2500	StCu	4	ASt	6	.7
Nairn	93	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.2	*	W	1	bc+	37	85	8	2500	Cu	4	ACu	7	.0
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.0	+6	NE	3	crs	37	92	8	1500	Nb	9	ASt	10	
Malin Head	51	1006.4	+4	N	3	cᵛ	44	85	8	5700	StCu	2	CiSt	9	1010.3	+5	NNE	4	bc-	43	85	9	4000	Cu	6	ACu	7	.6
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.6	+5	-	0	bc	20	97	5	-	-	0	Ci	3	.0
Edinburgh (Inchkeith)	100	1005.2	+3	W	2	bc	37	75	7	2500	St	2	A.Cu	3	1007.9	+3	W	2	bc	36	85	6	800	St	2	Ci	2	.0
Lenchars	23	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	+7	-	0	b	27	92	8	4000	Cu	1	Ci	2	.0
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	+6	NNE	2	bc	27	76	7	-	-	0	CiSt	6	.0
Tynemouth	67	1003.1	+2	NW	2	bc|pc	36	97	6	2500	Cu	3	Ci	4	1007.0	+3	WNW	2	cjp	36	97	7	1500	Nb	9	-	9	.2
Blacksod Point	18	1005.8	+2	-	0	bc	37	85	7	*	-	0	A.Cu	4	1010.2	+5	-	0	b	36	86	8	*	Cu	1	-	1	.1
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	+3	N	2	bc+	37	85	8	4000	Cu	4	-	4	.0
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.3	+4	N	1	FFb	26	97	1	-	-	0	-	0	.0
Holyhead	26	1004.7	+4	S'E	1	cᵛ	40	85	6	4000	StCu	6	CiSt	9	1007.7	+4	E	1	c	42	86	8	4000	Cu	2	Ci	8	.0
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	+3	W'N	2	c	37	85	7	-	-	0	CiSt	8	.0
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.2	+6	WNW	1	imbc	29	92	4	4000	St	7	-	7	
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.6	+3	WNW	1	bc	36	92	8	-	-	0	ASt	4	.5
Spurn Head	29	1000.5	+2	NE'N	4	c	43	85	7	4000	Cu Nb	4	A.Cu	8	1004.2	+3	N'W	5	c	39	97	6	2500	Nb	5	CiSt	9	.9
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.9	+4	NW	1	c	33	97	5	-	-	0	CiSt	10	.1
Cranwell	230	1002.5	+4	NW'W	3	c	35	92	6	2500	StCu	6	A.St	10	1006.2	+4	NW	4	c	33	92	6	4000	St	6	ASt	10	
Gorleston	14	997.3	+4	N'E	5	c	45	85	7	4000	StCu	10	-	10	1007.6	+6	NW'W	1	orc	42	92	6	2500	Nb	10	-	10	
Valentia (Cahirciveen)	30	1003.6	+2	E'S	1	bc	41	92	9	*	Cu Nb	3	-	3	1007.4	+4	ENE	1	b	37	65	8	-	-	0	-	0	.0
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.9	+4	N	1	b	33	97	8	-	-	0	-	0	.0
Pembroke (St. Ann's H.)	180	1003.6	+2	N	1	cjp	42	92	7	2500	StCu	10	-	10	1005.9	+3	NE	3	c-	42	85	7	2500	StCu	8	-	8	.3
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.5	+3	NE	1	mmbc	30	97	4	-	-	0	Ci	7	
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.4	+3	NNW	2	bc	32	92	6	-	-	0	ACu	7	
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.0	+3	NW	1	b	31	97	5	-	-	0	Ci	1	.3
S. Farnborough	257	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.5	+5	W	1	bc	32	97	5	-	-	0	Ci	3	.9
London (Kew Obsy.)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	1006.4	+3	SW	2	c	35	97	5	2500	St	2	CiSt	9	
Croydon	244	(1001.5)	(+8)	(NW'N)	(3)	(c)	(40)	(85)	(5)	(2500)	(StCu)	(9)	(-)	(9)	1006.1	+5	WNW	2	mc+	35	97	4	1500	St	10	-	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.6	+4	NW'N	3	c	38	92	8	4000	StCu	5	ACu	9	2
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.8	+4	NNW	3	c	39	85	7	4000	StCu	8	-	8	3
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.0	+6	NNW	4	orc	39	85	6	800	St	10	-	10	.8
Lympne	350	998.5	+8	NW'N	4	c	39	85	6	4000	StCu	7	A.St	10	1004.6	+5	WNW	3	c	36	92	5	5700	StCu	5	ACu	8	
Scilly (St. Mary's)	163	1005.1	+2	NNW	3	bc	44	75	8	4000	StCu	7	-	7	1005.1	0	E'S	3	bc	44	75	7	4000	StCu	7	-	7	.4
Falmouth (Pendennis)	200	1005.3	+2	NW	2	bc	42	97	7	4000	Cu	4	A.Cu	7	1005.4	+1	-	0	bc	40	85	7	4000	StCu	4	-	7	.1
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.3	+2	E	1	b	36	97	6	4000	Cu	1	-	1	.7
Portland Bill	87	1003.0	+9	NW'N	3	b-	42	85	6	-	-	0	-	0	1005.3	+2	NNW	3	bc	41	85	6	2500	StCu	6	ACu	7	.2
Southampton (Calshot)	10	1003.3	+7	NW'W	4	c-	41	85	6	1500	StCu	8	-	8	1006.8	+4	NW'W	2	b	34	92	6	2500	StCu	1	ACu	8	.2
Dungeness	20	999.3	+9	NNW	3	c	42	85	7	4000	StCu	10	-	10	1004.3	+6	NW	3	c-	38	92	7	4000	StCu	5	ASt	8	.4
Guernsey (St. Peter Port)	172	1005.0	+4	NW	2	bc	45	75	5	2500	StCu	6	-	6	1006.8	+2	-	0	bc	41	92	7	4000	StCu	4	-	4	.2

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-15h. to 9h.-16h. °F.	Temperature. Max. 9h.-17h. 16h. °F.	Rainfall† Night 17h.-9h. 15ᵈ-16ᵈ mm.	Rainfall† Day 9h.-17h. 16h. mm.	Sunshine Sunrise to Sunset 16th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	roc	28	mm	-	2	0.8
Douglas (I. o. M.)	od	oc	36	m3	-	-	1.1
Llandudno	c	c	35	m5	2	-	0.0
Colwyn Bay	oco	oco	34	m5	m	-	0.0
Rhyl	c2m	bcm	32	m5	2	-	07.0
Wallasey	c	bcoc	33	m1	1	-	0.7
Southport	ocbc	bcco	*34	m5	-	-	1.1
Blackpool	oc	c	31	m3	-	-	0.m
Morecambe	cbco	c	30	mm	-	-	0.3
Ilkley	oc	c	26	m3	1	-	0.0
Cleethorpes	obc	bcbod	28	m5	7	0.m	3.2
Mablethorpe	orm	cqbccq	29	mm	2	-	1.3
Skegness	opro	o	27	mm	2	-	0.0
Aberystwyth	roc	co	37	mm	2	1 -	0.0
Bath	cpo	cpo	25	m2	15	-	0.0
Cheltenham	o	poo	35	m1	17	0.3	0.0
Leamington Spa	oq	od	28	m3	5	0.2	0.0
Lowestoft	rd	od	30	m2	3	0.2	0.0
Harwich & Dovercourt	roc	roc	29	mm	8	1	0.0
Walton	rr	ro	32	m3	11	2	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	od	odo	m1	m6	6	2	0.0
Bude	odpr	odpr	37	50	14	m	0.0
St. Ives	p	p	m3	52	17	2	0.0
Penrance	c	cir	m7	m8	10	2	0.0
Paignton	orpco	om	mm	m5	27	1	0.0
Torquay	oRpo	bobopo	mm	m5	20	0.5	0.7
Jersey	rqc	rqc	m1	53	15	8	0.0
Weymouth	cp	c	39	m2	17	0.3	0.0
Bournemouth	o	o	33	m2	18	-	1.1
Ventnor	orm	coem	39	mm	20	-	0.0
Portsmouth (S'thsea)	o	o	34	mm	30	-	0.0
Bognor Regis	ro	ro	33	mm	23	1	0.0
Littlehampton	crc	cr	32	m6	29	7	0.0
Worthing	oro	orrsr	36	m5	29	18	0.0
Brighton	cr	r	35	150	34	24	0.5
Eastbourne	oroo	rdd	37	53	m6	6	
Hastings	oroc	orod	39	55	25	m	0.0
Folkestone	orr	rm	38	52	8	7	0.0
Dover	orr	ord	39	50	6	12	0.0
Deal	orro	orr	33	50	10	18	0.0
Tunbridge Wells	orr	orr	31	m6	29	22	0.0
Ramsgate	or	r	38	m8	6	m	0.0
Margate	cr	cd	36	m8	10	15	0.0
Southend	orr	orr	29	m5	12	m	0.0

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* Information not usually received. ‡ See footnote page 1.

† The observations at 1h. G.M.T., from an auxiliary station. § For code see page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24(3)33. MONDAY, 18th NOVEMBER, 1929.

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rate of ground.
Lerwick	1011·7	+4	N	3	bc	39	75	8	1500	Stcu	3	Acu	5	•
Stornoway	1013·9	+4	N	2	c	38	75	7	2500	Nb	9	-	9	•
Wick	1013·8	+4	N	4	c	40	65	8	2500	Stcu	8	-	8	•
Tiree	1014·3	+4	NE	3	b-	43	75	9	4000	Stcu	1	-	1	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1013·3	+3	NW	3	bc	40	85	8	2500	Cu	2	Acu	4	3
Malin Head	1013·5	+3	ENE	4	bc	44	85	9	4000	Cu	5	Acu	6	•
Renfrew	1013·8	+2	-	0	ffc	33	97	2	4000	Stcu	9	-	9	4
Edinburgh (Inchkeith)	1012·7	+4	N	2	c	40	85	7	800	St	5	Acu	9	•
Leuchars	1012·6	+2	NE	3	bc	41	75	8	2500	Stcu	3	Acu	6	2
Eskdalemuir	1012·5	+3	NNE	3	bc	35	75	8	1500	Cu	3	Ci	5	3
Tynemouth	1010·2	+1	WNW	2	bc/r	42	85	7	2500	Cu	2	Ci	3	•
Blackrod Point	1013·5	+2	-	0	bc	46	65	9	•	Cu	3	-	3	•
Dunaghadoe	1011·6	+3	NE	2	b-	43	65	8	4000	Cu Nb	1	-	1	•
Birr Castle	1013·3	+2	WNW	1	ffbc	31	97	2	2500	St	7	-	7	•
Holyhead	1010·7	+2	NE'N	3	bc	46	75	8	4000	Cu	6	-	6	1
Liverpool (Bidston)	1011·1	+2	NNE	2	(mb)c(r)	40	75	4	1500	St	4	Cu Cu	6	•
Chester (Sealand)	1010·1	+2	N	2	b-	41	75	5	-	-	0	-	0	2
Harrogate	1010·6	+2	NW	2	bc	41	75	7	4000	Stcu	7	-	7	•
Spurn Head	1008·7	+2	N	4	bc	44	85	7	4000	Cu	3	Ci	7	•
Birmingham (Edgbaston)	1010·4	+1	NNW	2	fbc(r)	40	85	3	-	-	0	Ci St	5	2
Cranwell	1009·8	+2	NW'N	3	c⊕	40	85	6	5700	Stcu	1	Ci St	9	2
Gorleston	1006·4	+3	N	4	c	44	92	6	4000	Stcu	8	-	8	•
Valentia (Cahirciveen)	1012·7	+4	ENE	2	b	45	65	8	-	-	0	-	0	1
Roches Point	1011·6	+3	N	2	b	43	85	8	-	-	0	-	0	•
Pembroke (St. Ann's H.)	1009·7	+3	NE	2	bc-	45	85	7	2500	St	3	Acu	4	2
Ross-on-Wye	1010·1	+2	NNW	2	bc	41	75	6	-	-	0	Ci	3	2
Leafield	1009·6	+3	NNW	2	bc	37	85	6	-	-	0	Ci St	7	2
Winchester (Worthy Dn.)	1009·2	+2	N	3	b	43	75	6	-	-	0	Ci	2	2
S. Farnborough	1008·6	+1	NW	1	bc	45	75	6	-	-	0	Ci	4	2
London (Kew Obsy.)	1009·4	+2	N'E	3	bc	45	65	5	-	-	0	Ci St	7	1
Croydon	1008·8	+2	NW	1	mmbc	42	75	4	-	-	0	Ci	5	2
Shoeburyness	1007·9	+2	NNW	3	c+	42	85	8	4000	Stcu	5	Acu	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1007·5	+3	NW'N	4	c	43	85	6	4000	Stcu	3	Ci	9	1
Lympne	1007·0	+2	NNW	4	bc	43	75	5	-	-	0	Ci	3	2
Hollly (St. Mary's)	1007·9	+3	E	3	bc	48	75	7	4000	Cu	2	Acu	4	•
Falmouth (Pendennis)	1009·7	+4	E'N	4	bc-	47	85	7	4000	Cu	4	-	4	•
Plymouth (Mt. Batten)	1008·6	+2	ENE	4	b	47	75	7	4000	Cu	1	-	1	2
Portland Bill	1008·1	+2	NE	3	b-	46	75	16	-	-	0	-	0	•
Southampton (Calshot)	1010·1	+2	N	3	b	45	75	5	-	-	0	Acu	1	0
Dungeness	1007·7	+4	NW	3	bc-	46	75	7	-	-	0	Cu Cu	6	•
Guernsey (St. Peter Port)	1008·4	+1	E	2	bc-	48	75	7	2500	Stcu	4	Acu	6	•

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1015·3	+4	N	3	bc	36	85	8	1500	Stcu	2	Acu	4	•
Stornoway	1018·1	+4	NE	5	c	36	85	7	2500	Nb	9	-	9	4
Wick	1016·6	+4	NNW	3	c	37	65	8	2500	Stcu	6	Ast	8	3
Tiree	1017·0	+3	ENE	3	b+	39	75	9	2500	Stcu	2	-	2	1
Nairn	1017·0	•	NNW	3	c	35	75	8	1500	Cu Nb	8	-	8	•
Aberdeen	1016·2	+4	NW	4	b-	37	66	8	-	-	0	Acu	2	0
Malin Head	1016·5	+4	ENE	3	bc	43	85	8	4000	Cu	4	-	4	1
Renfrew	1017·1	+3	-	0	b/f	30	92	5	5700	Stcu	1	Acu	1	•
Edinburgh (Inchkeith)	1016·5	+4	N	2	c	39	65	8	4000	Stcu	9	-	9	0
Leuchars	1015·9	+4	N	1	c	37	75	8	2500	Stcu	8	-	8	•
Eskdalemuir	1015·9	+4	NNE	2	bcd	34	92	7	1500	St	7	-	7	•
Tynemouth	1013·5	+3	NW	2	or	40	92	7	1500	Nb	10	-	10	2
Blackrod Point	1015·8	+2	E	1	b	42	75	8	•	Cu	2	-	2	2
Dunaghadoe	1014·7	+4	NE	2	bc+	43	65	8	4000	Cu	3	-	3	2
Birr Castle	1015·9	+3	SE	1	FFb	29	97	1	-	-	0	-	0	•
Holyhead	1014·1	+5	N	3	bc+	43	85	7	4000	Stcu	7	-	7	0
Liverpool (Bidston)	1014·2	+6	N'E	2	bc+	39	85	7	1500	St	2	Acu	5	2
Chester (Sealand)	1013·8	+5	NW	2	ffc	34	92	3	1500	St	9	-	9	•
Harrogate	1014·1	+3	W	1	b	34	92	7	-	-	0	Acu	1	•
Spurn Head	1011·5	+2	N'W	4	c(p)c	41	92	7	4000	Cu Nb	5	Cu St	8	4
Birmingham (Edgbaston)	1013·5	+4	NW	2	ffb	36	92	6	-	-	0	-	0	•
Cranwell	1012·9	+5	NNW	3	mb	35	97	4	-	-	0	Ci	0	•
Gorleston	1010·5	+4	NW'N	2	c(r	41	85	6	2500	Stcu	8	-	8	1
Valentia (Cahirciveen)	1015·3	+3	ESE	1	b	37	85	8	4000	Stcu	1	Cu Cu	2	0
Roches Point	1015·1	+4	N	2	b	42	75	8	-	-	0	-	0	0
Pembroke (St. Ann's H.)	1013·1	+5	NE	1	b-	39	92	8	-	-	0	Cu St	1	•
Ross-on-Wye	1013·5	+5	W	1	mb	36	85	4	-	-	0	-	0	•
Leafield	1012·8	+3	N'W	1	b	34	92	5	-	-	0	-	0	•
Winchester (Worthy Dn.)	1012·7	+5	NNW	2	b-	33	92	5	-	-	0	-	0	•
S. Farnborough	1011·7	+4	N	2	mmb	38	85	4	-	-	0	-	0	•
London (Kew Obsy.)	1012·1	+4	N'W	2	b	39	92	5	-	-	0	Acu	0	•
Croydon	1012·2	+5	NNW	1	ffc	38	92	3	-	-	0	Cu St	8	•
Shoeburyness	1010·7	+2	NNW	2	bc	38	92	8	-	-	0	Ast	7	•
Clacton-on-Sea	1010·4	+4	NNW	3	c	41	85	7	-	-	0	Ast	8	1
Felixstowe	1010·8	+4	NW'N	3	c	39	92	7	-	-	0	Ast	9	1
Lympne	1010·2	+4	N'W	3	bc	38	85	5	-	-	0	Acu	6	•
Hollly (St. Mary's)	1012·1	+4	ENE	3	bc	45	75	8	4000	Cu	3	-	3	1
Falmouth (Pendennis)	1012·6	+3	NEE	4	bc	45	75	7	4000	Cu Nb	5	-	5	1
Plymouth (Mt. Batten)	1012·7	+5	N	1	b	42	85	6	4000	Cu	1	-	1	0
Portland Bill	1011·2	+5	NE	3	b+	43	75	6	2500	St	2	-	2	3
Southampton (Calshot)	1012·9	+4	NW'N	3	b	37	85	5	-	-	0	-	0	0
Dungeness	1010·8	+5	NNW	3	c+	41	92	7	-	-	0	Acu	8	2
Guernsey (St. Peter Port)	1011·8	+6	NE	2	bc	48	65	7	2500	Stcu	6	-	6	2

LONDON OBSERVATIONS.

Day: 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 21h.-21h., 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.	Rain-fall mm. Day.	Rain-fall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility §§
		24 HOURS ENDED 9h.			YESTERDAY.						TO-DAY.		
Kew	18	obscur	bcc, bm	10mFx	45	29	-	-	-	4·9	*	*	1
Croydon	264	c+mpsbc	c cmf	cffc d,	42	30	28	-	Tr.	1·2	8	*	1
Greenwich (Royal Obsy.)	149	cf.	Cm	cmpbc	44	31	24	-	Tr.	0·2	91	98	0
City (Bunhill Row)	80	"	"	"	35	"	"	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	35	32	25	-	-	0·3	98	96	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	2·5	*	*	*
Camden Square	110	bcbbc	cbc	*	43	32	*	-	-	*	*	97	*
Kensington Palace	80	c/cc	c	c	42	31	23	-	-	*	(At 18h.) 84	92	*
Hampstead Observatory	450	"	"	"	42	26	21	Tr.	0·3	4·3	*	97	*

† 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.

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time	Min.	Time.
	1·3	12h 17m	0·3	4h 18m

Kew Observatory	Max.	Time.	Min.	Time.
	0·7	10h 17m	0·2	(day 18th)

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13·30	6·18	47
β Ursæ Minoris	13·30	5·10	38

CODE FOR STATE OF GROUND.

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

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

18th-19th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·22	11·38	16.54
Greenwich	7·24	11·38	15.53
	7·24	11·45	16·5
Wick	7·26	11.45	16.4
	8·10	11.58	15.45
Valentia	8·12	11.58	15.43
	8.7	12.26	16.45
	8.9	12.24	16.43

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 c 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.
L "solidus" divides actual existing weather from preceding conditions, thus r—b/f = 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

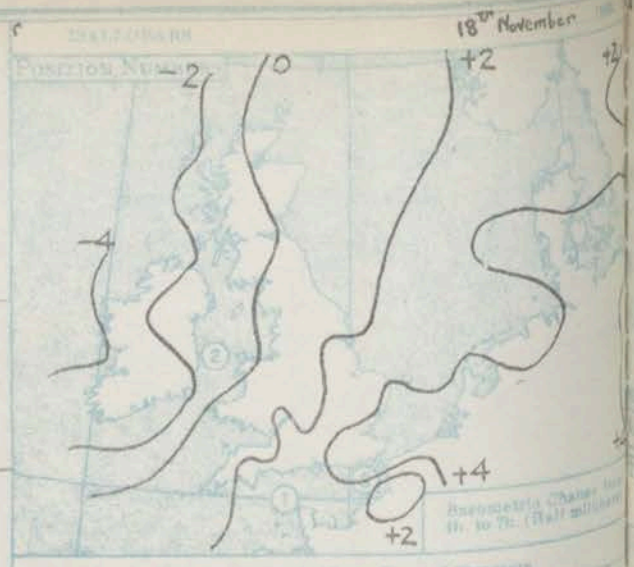
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	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.	5½ "
7. Good.	11½ "
8. Very good.	22 "
9. Excellent visibility, beyond 31 m.	

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 17th	WEATHER. 18h.-18h. 17th	WEATHER. 18h. 17th to 1h 18th	WEATHER. 1h.-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	bc	bc	bcpS	bcb	39	32	•	–	–	Tr.	12.00	3.0
Stornoway	c	c	cpS c	c	38	30	•	–	–	01	24.00	0.0
Wick	c	c	b-bc	b-bc	40	27	•	–	–	–	–	•
Tiree	bc bv	b	bc	bc	43	32	24	–	–	–	–	6.6
Nairn	bcc	c	cbcx	bc	40	24	•	–	–	–	–	0.0
Aberdeen	bc	bc	b	b	40	28	23	–	–	–	–	2.8
Malin Head	bcv	bcv	bcjpbccz	czbc	45	34	•	–	–	–	–	4.0
Renfrew	mxpS fx	cffx bx	bbxm	bcjpsjpim	35	28	20	Tr.	–	Tr.	5.30	0.0
Edinburgh (Inchkeith)	bccir	c	c	c	41	36	32	Tr.	9.00	–	–	0.2
Leuchars	bxcidbc	bcc	c	c cx	41	289	22	0.1	9.00	–	–	3.0
Eskdalemuir	bcxbc	bccid	bcdbccS	cSc	36	31	28	0.2	14.30	0.6	21.00	2.9
Tynemouth	oir	bc oir	orr	orr	43	37	34	1	18.00	15	21.00	•
Blacksod Point	b	b	bc	c	47	39	•	–	•	–	•	•
Donaghadee	bcb	b bc	bcc	cprc	43	36	•	–	–	3	1.30	•
Birr Castle	bbcff	bcbffx	bgfx	bgxc	34	25	17	–	–	–	–	0.0
Holyhead	cbc	bcpr	bcmw	Cbmx	47	34	27	0.1	15.30	–	–	5.5
Liverpool (Bidston)	cbcbm	bcmbc	bcbmx	bbcmx	A1	30	26	–	–	–	–	3.6
Chester (Sealand)	bcmbz	bcmcmff	cbgfx	bcbgfx	A1	23	19	–	–	–	–	2.7
Harrogate	bc	bcb	bcb	bcbx	A1	33	26	–	–	–	–	1.8
Spurn Head	cbc	bccpr	cprbc	bc	45	37	•	Tr.	17.30	Tr.	21.00	4.0
Birmingham (Edgbaston)	cbcm	fb	fmb	bbcc	A0	31	20	–	–	–	–	2.4
Cranwell	bccm	cmbm	bmfx	bgxofex	A2	31	28	–	–	0.3	–	4.3
Gorleston	orrcph	coirq	crbcq	bbcc	46	33	30	6	18.00	0.5	21.00	0.0
Valentia (Cahirciveen)	bxb	b	bbcxcxc	c cr	46	34	26	Tr.	–	1	6.30	7.1
Roches Point	b	b	bxbccw	c	45	35	•	–	–	Tr.	–	•
Pembroke (St. Ann's H.)	cbcm	b	b	bbc	46	37	•	–	–	–	–	5.8
Ross-on-Wye	cm bcm	b	bmgx	bFx	A3	23	18	–	–	–	–	5.0
Leafield	bc	bc	bx	bxbc	A1	29	23	Tr.	–	–	–	3.5
Winchester (Worthy Dn.)	bm	bmbcm	bmxgfx	bgfxoffx	A4	31	20	–	–	0.2	21.00	6.4
S. Farnborough	bcxm	bcmbm	bmx	bmofefe	45	28	19	Tr.	–	Tr.	–	5.8
London (Kew Obsy.)	cmbcmbc	bczbm	bmOFx	OFx	45	29	–	–	–	–	–	4.9
Croydon	cmombcm	c cmf	cbffcmx	cmxOFdo	A2	30	25	–	–	Tr.	6.30	1.2
Shoeburyness	cbcc	cbc	bcm	OF	44	31	31	–	–	–	–	2.3
Clacton-on-Sea	cbc	bccz	czbcm	bcmgfx	43	31	30	–	–	–	–	0.0
Felixstowe	orcz	czc	cbc b	OFe	44	32	31	0.1	18.00	–	–	1.6
Lympne	cmbc	b cm	bcmbmx	bmogfx	A3	32	30	–	–	Tr.	24.00	3.8
Scilly (St. Mary's)	bc	bc	bc	bc	48	44	•	–	–	–	–	3.8
Falmouth (Pendennis)	bc	bc	bc	bc	48	37	•	–	–	–	–	3.6
Plymouth (Mt. Batten)	bwmb	bm	bm	bmx	48	32	27	–	–	–	–	7.1
Portland Bill	bcbz	bbcz	bm	bfg	46	35	•	–	–	–	–	6.•
Southampton (Calshot)	bmm	bm	bwm	bwmofejc	45	31	31	–	–	–	–	8.8
Dungeness	cbc	bcc	cbbmm	bmoS	46	31	•	–	–	–	–	•
Guernsey	bccbc	bccbc	bc	bcbc	50	35	27	–	–	–	–	1.9



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
3	18th 2h	Dieppe	N	3	b/r	46	52

GENERAL INFERENCE.

A belt of relatively high opressure extending from north to south over England and Scotland will recede before the advance of a depression off Ireland. Apart from fog in the Southeast weather will be mainly fair and cold at first in eastern districts, but freshening southerly winds and unsettled weather with some rain will spread from the West.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 18th November, 1929.
1. S.E. England 2. E. England 3. E. Midlands	Wind light and variable, becoming moderate or fresh southerly; fog at first; becoming fair, but cloud probably increasing; cold at first, but temperature probably rising somewhat.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind southeast or south, moderate or fresh, probably strong locally, becoming southwest; cloudy; some rain probable; moderate temperature.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind variable, becoming southeast or south, moderate or fresh; becoming cloudy; cold at first, but temperature probably rising somewhat.
12. S.W. Scotland & Isle of Man 13A. W. Scotland ▼ 13B. N.W. Scotland ▼	Wind southeast or south, fresh, or strong locally; mainly cloudy; some rain or sleet later; cold at first, then moderate temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind variable, becoming southeast or east and freshening; becoming cloudy; perhaps precipitation later; low or moderate temperature.
17. N.W. Ireland ▼ 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland ▼	Wind southeast or south, fresh or stronger locally, becoming westerly later; cloudy, rain, probably improving later; moderate temperature, then temporarily mild.

Further Outlook.

Unsettled.

▼ South Cone hoisted at 8h. 55m. in districts 13A., 13B., 17 and 20.

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

(2 140/2255 m.4c. 2/6008 14/100. 11/29.

‡ For code see page 1

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

18th November

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Further Outlook

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H.W.L.W.

., D.Sc., F.R.S. Director

but amount less than 0

SYNOPTIC CHART FOR 7h. MONDAY, 18TH NOVEMBER, 1929

Scale - 1:10,000,000

Nautical Miles
Statute Miles

Barometer falling slowly.

Barometer falling.

Barometer steady.

Barometer rising slowly.

Barometer rising.

HIGH

LOW

HIGH

LOW

'Scythia' 27 Sea 55 Rain

Aquitania 59 Sea 57 O'cast

EXPLANATION.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. MONDAY, 18th NOVEMBER 1929. No. 322.

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

STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-6
Lerwick	54	1017.0	+2	NW	2	bc	34	83	8	1500	StCu	2	A.Cu	3	
Stornoway	30	1018.9	+1	NE	1	c	*	*	7	*	*	*	*	8	
Wick	81	1018.8	+1	WNW	2	bc	32	85	8	4000	Cu	2	Cist	4	
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	
Malin Head	61	1017.5	0	SSE	3	c	39	92	6	2500	StCu	9	-	9	
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	
Edinburgh (Inchkeith)	100	1018.5	+2	NNE	2	c	37	65	8	4000	Cu	5	A.Cu	8	
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	
Eskdalemuir	794	*	*	*	*	o	*	*	*	*	*	*	*	*	
Tynemouth	67	1017.0	+2	NW	2	o6c	38	97	7	1500	Nb	10	-	10	
Blacksod Point	18	1015.4	-1	E	3	c	40	85	7	*	StCu	9	-	9	
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	
Holyhead	26	1016.2	+1	SE	1	c	36	97	6	4000	StCu	1	Cist	8	
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	
Spurn Head	26	1015.4	+2	NW'N	3	bc-	37	97	6	4000	CuNb	3	-	3	
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	
Cranwell	256	1016.4	+4	NW	3	fb+	32	92	3	-	-	0	-	0	
Gorleston	14	1014.3	+3	NW	2	b-	36	85	6	1500	CuNb	2	-	2	
Valentia (Cahirciveen)‖	30	1015.3	0	SE	2	bc	41	85	8	*	-	0	CiCu	7	
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	
Pembroke (St. Ann's H.)	150	1016.3	+2	NE	1	b	38	92	8	-	-	0	Cist	1	
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	
Winchester (Worthy Dn.)	372	*	*	*	*	*	*	*	*	*	*	*	*	*	
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*	
London (Kew Obsy.)	18	*	*	*	*	*	33	*	*	*	*	*	*	*	
Croydon	244	1016.2	+2	W'N	2	fc-	33	97	4	1500	StCu	8	-	8	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	
Lympne	350	1014.6	+3	NNW	4	mmb	34	97	4	-	-	0	-	0	
Scilly (St. Mary's)	163	1016.6	+2	SE	2	bc	43	85	7	4000	Cu	4	A.Cu	7	
Falmouth (Pendennis)	200	1017.7	+2	NNE	2	bc+	38	85	7	4000	StCu	7	-	7	
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	
Portland Bill	32	1015.3	+3	NE'N	3	b	38	85	5	-	-	0	-	0	
Southampton (Calshot)	10	1016.7	+4	NNW	4	b	38	92	6	-	-	0	-	0	
Dungeness	20	1015.0	+4	N	1	mmb	32	97	4	-	-	0	-	0	
Guernsey (St. Peter Port)	173	1017.0	+4	NNE	1	bc	44	75	6	2500	StCu	6	-	6	

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-6
Lerwick	1017.2	0	NW	1	b	33	85	8	1500	Stm	2	-	2	
Stornoway	1016.7	-2	ESE	1	bc	35	85	7	4000	Cu	4	-	4	2
Wick	1018.4	0	WNW	3	bc	29	85	8	4000	Stm	3	Cist	4	1
Tiree	1015.5	-2	SE	4	c	37	75	8	4000	Stm	1	Cicu	8	4
Nairn	1018.1	*	-	0	bc-	24	85	8	4000	Cu	3	-	3	*
Aberdeen	1018.7	0	NW	3	b	29	92	8	2500	CuNb	1	Cicu	2	0
Malin Head	1013.7	-3	ESE	3	bc	38	92	8	4000	Stm	1	Ptcu	3	1
Renfrew	1018.6	-1	-	0	oso	31	92	4	1500	Nb	10	-	10	*
Edinburgh (Inchkeith)	1018.4	0	NNE	3	c	36	75	8	1500	Stm	6	Ptcu	9	1
Leuchars	1018.8	0	WNW	1	c	30	85	7	4000	Stm	7	Ptcu	9	*
Eskdalemuir	1018.6	0	-	0	c	33	92	8	2500	Stm	10	-	10	*
Tynemouth	1017.7	+1	NW	2	bjp	37	97	7	1500	Nb	10	-	10	2
Blacksod Point	1010.3	-4	S	4	c	41	75	8	*	Stm	10	-	10	5
Donaghadee	1015.5	-1	SSE	3	c	42	85	8	4000	CuNb	8	-	8	2
Birr Castle	1013.0	-2	S	1	0	33	85	7	4000	St	10	-	10	*
Holyhead	1016.4	-1	SE'S	3	bc+	36	97	5	2500	St	1	Ci	5	0
Liverpool (Bidston)	1018.1	0	SSE	4	mmbc	31	85	4	1500	St	3	Cist	5	*
Chester (Sealand)	1017.8	+1	SE'S	2	Sbc	23	92	3	-	-	0	Ci	4	*
Harrogate	1018.3	0	W	1	bc	33	97	7	2500	St	2	Ci	3	*
Spurn Head	1016.9	+2	NNW	2	bc	39	97	7	2500	Nb	6	-	6	3
Birmingham (Edgbaston)	1019.4	+1	SSW	1	c+	35	97	5	2500	Stm	9	-	9	*
Cranwell	1018.4	+3	NW'N	2	Fo+	33	97	1	4150	St	10	-	10	*
Gorleston	1017.5	+4	WNW	3	Fo	33	97	1	220	St	10	-	10	0
Valentia (Cahirciveen)‖	1010.4	-3	SSE	5	crr	46	85	7	1500	Nb	6	Ast	10	1
Roches Point	1014.4	-3	SW	4	c	49	75	7	2500	CuNb	8	-	8	4
Pembroke (St. Ann's H.)	1016.5	0	S	3	c+	46	85	7	2500	Stm	9	-	9	1
Ross-on-Wye	1018.9	+2	ESE	2	FFb	23	97	1	-	-	0	-	0	*
Leafield	1018.9	+1	SE'S	1	FFb	30	97	1	-	-	0	-	0	*
Winchester (Worthy Dn.)	1019.2	+2	NNW	2	FFo	31	97	1	4160	St	10	-	10	*
S. Farnborough	1019.0	+3	-	0	FFo	31	97	1	4150	St	10	-	10	*
London (Kew Obsy.)	1019.7	+4	NW'W	1	FFo	31	97	1	4150	St	10	-	10	*
Croydon	1019.3	+6	NW	1	Ddo	31	97	1	4150	St	10	-	10	*
Shoeburyness	1018.8	+5	WNW	1	FFo	32	97	1	4150	St	10	-	10	*
Clacton-on-Sea	1017.4	+3	NNW	3	SSc	32	85	3	4000	Stm	8	-	8	1
Felixstowe	1018.3	+6	NW'N	3	FFo	33	97	1	4150	St	10	-	10	0
Lympne	1018.2	+5	NNW	3	FFo	32	97	1	4150	St	10	-	10	*
Scilly (St. Mary's)	1017.0	0	S	3	bc	46	85	7	4000	Cu	7	-	7	1
Falmouth (Pendennis)	1018.5	+1	-	0	bc	38	92	7	4000	Stm	6	-	6	0
Plymouth (Mt. Batten)	1019.2	+2	-	0	b	34	97	6	1500	St	2	Ci	2	0
Portland Bill	1018.2	+2	NE'N	3	(b)	38	85	3	-	-	0	-	0	3
Southampton (Calshot)	1019.7	+3	NW	2	FFo	32	97	1	4150	St	10	-	10	0
Dungeness	1018.1	+5	N	2	FFo	34	97	1	4150	St	10	-	10	2
Guernsey (St. Peter Port)	1019.8	+4	-	0	bc	35	97	6	4000	Stm	4	-	4	2

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 16th to 9h. 17th. °F.	Temperature. Max. 9h. 17th. to 17h. 17th. °F.	Rainfall.† Night 17h. 16th. to 9h. 17th. mm.	Rainfall.† Day 9h. 17th. to 17h. 17th. mm.	Sunshine. Sunrise to Sunset. 17th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	cr$_o$	cr$_o$	29	44	3	2	2.2
Douglas (I. o. M.)	cb	cb	34	44	0.5	-	6.3
Llandudno	cbc	bcc	32	45	-	-	4.6
Colwyn Bay							
Rhyl	bc	bc	31	45	-	-	2.8
Wallasey	xfbc	b	31	41	-	-	3.5
Southport	xbc	bcb	*30	41	-	-	3.4
Blackpool	cbc	bc	31	43	-	-	4.7
Morecambe	bc	bcb	33	42	-	-	3.1
Ilkley	c	c	31	41	-	-	0.0
Cleethorpes	cb	bc	36	45	Trace	-	4.0
Mablethorpe	orc	bcjpbcm	35	45	1	Trace	1.8
Skegness	oprbc	bprbc	36	44	-	1	2.0
Aberystwyth	bcb	b	33	46	-	-	6.4
Bath	b	b	29	44	-	-	4.5
Cheltenham	xco	of	31	42	-	-	1.2
Leamington Spa	c	cbm	30	42	-	-	1.5
Lowestoft	oprd	copro	40	45	2	2	0.1
Harwich & Dovercourt	oc	oc	29	44	0.6	-	0.0
Maldon	cbc	c	37	42	Trace	-	0.6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	b	b	39	46	-	-	7.0
Bude	b	b	35	47	3	-	7.2
St. Ives	c	b	40	49	3	-	5.0
Penzance	b	bz	?	49	8	-	5.4
Paignton	bmfbm	bm	35	46	-	-	5.2
Torquay	wbm	bm	38	48	-	-	6.3
Jersey	bcz	bc	38	51	0.3	-	4.3
Weymouth	mb	bz	35	46	-	-	6.0
Bournemouth	b	b	32	45	-	-	7.2
Ventnor	bz	bz	35	45	Trace	-	6.8
Portsmouth (S'thsea)	b	b	34	46	-	-	6.5
Bognor Regis	b	b	34	46	.2	-	7.0
Littlehampton	bc	bc	33	46	2	-	6.7
Worthing	b	b	34	45	2	-	6.7
Brighton	cb	bc	35	45	3	-	5.9
Eastbourne	b	bbcm	37	46	0.3	-	6.4
Hastings‖	mbbc	bcc	36	46	1	-	7.4
Folkestone	bcz	bcc	38	46	3	-	2.1
Dover	mcbc	bccm	40	45	3	-	1.5
Deal	cbco	coc	38	45	2	-	1.3
Tunbridge Wells	mbc	bc	33	44	4	-	4.8
Ramsgate	oc	c	39	45	1	-	0.0
Margate	bc	bc	41	45	0.3	-	0.0
Southend	bcm	bcm	37	43	0.3	-	2.2

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

* Information not usually received.

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

‡ For code see page 1.

† See footnote page 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 24834 Tuesday 13th November 1929.

Observations at 15h. 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.	Sun. 0-9
Lerwick	1015·9	-2	NW	1	b	38	85	9	1500	St.Cu.	2	-	2	•	•
Stornoway	1012·3	-6	ESE	3	c+	39	75	8	4000	Nb.	3	A.Cu.	8	•	•
Wick	1016·0	-3	W	2	c	34	85	8	2500	St.Cu.	3	A.Cu.	9	•	•
Tiree	1009·4	-7	SE	7	c+	41	85	6	2500	St.Cu.	2	A.St.	10	0	•
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•	•
Aberdeen	1016·7	-3	WNW	2	c+	33	85	5	2500	Cu.	1	A.Cu.	9	3	•
Malin Head	1023·0	-9	SSE	4	0/c	41	97	7	1500	Nb.	10	-	10	•	•
Renfrew	1015·2	-4	E	2	c/c	35	92	3	2500	St.	8	A.St.	10	6	•
Edinburgh (Inchkeith)	1016·4	-3	SSE	1	c	39	92	8	800	St.	2	A.Cu.	9	•	•
Leuchars	1016·3	-4	NW	1	c/s	34	85	7	1500	St.Cu.	4	A.St.	9	2	•
Rakdalemuir	1015·7	-4	NE	2	c	35	85	8	1500	St.Cu.	10	-	10	3	•
Tynemouth	1016·8	-1	SSW	2	c/f	41	85	5	1500	Cu.Nb	8	-	8	•	•
Blacksod Point	999·2	-5	S	5	c	46	85	8	•	Cu.Nb.	10	-	10	•	•
Donaghadee	1011·2	-6	SE	3	c/p	45	75	7	4000	St.Cu.	9	-	9	•	•
Birr Castle	1005·9	-6	S	3	0/c	43	92	6	2500	Nb.	10	-	10	•	•
Holyhead	1013·1	-5	SSE	5	c	44	85	6	2500	St.	1	A.St.	9	1	•
Liverpool (Bidston)	1015·9	-3	SSE	4	0	36	85	5	2500	St.	10	-	10	•	•
Chester (Sealand)	1016·1	-3	SE	3	nmc	35	92	4	-	-	0	A.St.	10	2	•
Harrogate	1017·4	-1	S	1	c	38	92	5	2500	St.	5	A.St.	10	•	•
Spurn Head	1018·4	0	W	1	Ffo	35	97	1	220	St.	10	-	10	•	•
Birmingham (Edgbaston)	1018·5	-1	SSW	2	ffdc	37	92	3	-	-	0	A.St.	5	2	•
Cranwell	1018·9	0	S	2	ffo	35	97	2	220	St.	10	-	10	1	•
Gorleston	1019·0	+1	WNW	3	Ffo	35	97	1	220	St.	10	-	10	•	•
Valentia (Cahirciveen)	1000·5	-10	SE/S	7	c/r	49	92	6	1500	Nb.	7	A.St.	10	2	•
Roches Point	1009·1	-9	SW	6	c/r	48	92	7	1500	Nb.	9	-	9	•	•
Pembroke (St.Ann's H.)	1013·8	-3	S	5	c/r	47	97	7	1500	St.Cu.	10	-	10	•	•
Ross-on-Wye	1017·7	-3	S/W	1	ffo	35	75	3	800	St.	10	-	10	2	•
Leafield	1018·9	0	SE/S	2	Ffo	31	97	1	1450	St.	10	-	10	2	•
Winchester (Worthy Dn.)	1019·5	-1	SE	1	Ffo	33	97	1	1450	St.	10	-	10	1	•
S. Farnborough	1019·6	0	SSE	1	fo-	34	92	2	1450	St.	10	-	10	1	•
London (Kew Obsy.)	1020·4	0	SW	1	Ffo	34	97	1	1450	St.	10	-	10	1	•
Croydon	1020·1	0	-	0	Ffo	34	97	1	1450	St.	10	-	10	2	•
Shoeburyness	1020·3	0	-	0	Ffo	36	97	1	1450	St.	10	-	10	•	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	•	•
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	•	•
Lympne	1020·4	+2	W/S	2	FFo	35	97	1	-	-	0	-	0	5	•
Sandwich	1019·8	+1	NNW	2	FFo	36	97	1	-	-	0	-	0	2	•
Scilly (St. Mary's)	1013·9	-6	SSW	5	c/r	48	85	6	4000	Nb.	9	-	9	•	•
Falmouth (Pendennis)	1017·2	-3	SSW	6	c/r	48	75	7	2500	Nb.	7	A.St.	10	•	•
Plymouth (Mt. Batten)	1016·8	-4	SSW	5	c/r	46	97	6	1500	Nb.	7	A.St.	10	2	•
Portland Bill	1018·0	-1	S	3	o+	48	65	6	800	St.	10	-	10	2	•
Southampton (Calshot)	1020·6	-1	-	0	fo-	35	97	3	1450	St.	10	-	10	5	•
Dungeness	1020·4	+2	NNW	2	FFo	37	97	1	1450	St.	10	-	10	•	•
Guernsey (St.Peter Port)	1020·8	+2	SSW	2	c+	47	85	5	2500	St.Cu	10	-	10	•	•

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	State of ground.	Sun. 0-9
Lerwick	1013·9	-2	NW	1	c/p	37	85	8	1500	Cu.Nb	8	-	8	•	•
Stornoway	1013·3	-10	SE	6	0	39	65	6	2500	St.	10	-	10	•	•
Wick	1010·7	-6	SE	4	c	40	85	8	4000	St.Cu	6	A.St.	9	•	•
Tiree	999·3	-11	SE/E	8	c/r+	40	97	6	2500	Nb.	8	A.St.	10	•	•
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•	•
Aberdeen	1011·2	-7	SE/E	4	c/o	40	85	7	2500	Nb.	8	A.Cu.	10	0	•
Malin Head	993·6	-11	SSE	7	c/r	43	97	6	1500	Nb.	8	A.St.	10	4	•
Renfrew	1013·0	-5	E	4	o/(r)	38	85	6	2500	Nb.	10	-	10	•	•
Edinburgh (Inchkeith)	1009·8	-7	SE	2	0	39	85	8	1500	St.	10	-	10	0	•
Leuchars	1010·1	-7	SE	3	c	38	85	7	1500	St.Cu	8	A.St.	10	•	•
Rakdalemuir	1009·5	-8	SE	3	o/c	36	85	6	1500	St.	10	-	10	•	•
Tynemouth	1012·0	-4	S	2	o/m	40	85	5	800	St.	10	-	10	2	•
Blacksod Point	992·1	-3	S	5	ok	51	85	7	*	Nb	10	-	10	7	•
Donaghadee	1001·3	-8	S/E	5	or	46	92	7	2500	Nb.	10	-	10	4	•
Birr Castle	996·2	-9	S	5	c/r+	48	92	6	2500	Nb.	10	-	10	•	•
Holyhead	1005·6	-8	SSE	6	c/r	45	97	5	1500	Nb.	7	A.St.	10	5	•
Liverpool (Bidston)	1010·3	-5	SE	4	o/r+	47	85	5	2500	Nb.	10	-	10	•	•
Chester (Sealand)	1011·2	-7	SSE	4	or	46	85	4	2500	St.	10	-	10	•	•
Harrogate	1013·0	-3	S/E	3	f/fo	45	97	3	1450	St.	10	-	10	•	•
Spurn Head	1016·0	-7	SSW	3	fo-	45	97	3	2220	St.	10	-	10	3	•
Birmingham (Edgbaston)	1014·0	-4	SSE	3	or-	46	97	5	1500	Nb.	10	-	10	•	•
Cranwell	1016·2	-4	S/E	4	fo-	44	97	3	1450	St.	10	-	10	•	•
Gorleston	1018·3	0	SW	2	fo-	42	97	2	2220	St.	10	-	10	0	•
Valentia (Cahirciveen)	996·1	0	S/W	3	c	43	92	8	1500	St.	7	-	9	4	•
Roches Point	999·3	-6	SW	5	c/r	41	97	6	1500	Nb.	9	-	9	•	•
Pembroke (St.Ann's H.)	1007·0	-5	S	6	or-	49	97	6	800	Nb.	10	-	10	4	•
Ross-on-Wye	1013·2	-5	S	3	od/o	40	85	5	800	St.	10	-	10	•	•
Leafield	1015·7	-4	SE	3	or+	44	92	5	800	Nb.	10	-	10	•	•
Winchester (Worthy Dn.)	1016·9	-3	S/W	3	o/c+	42	92	6	800	Nb.	10	-	10	•	•
S. Farnborough	1017·2	-5	SE/S	3	fc-	35	97	4	4000	St.Cu	1	A.St.	10	•	•
London (Kew Obsy.)	1018·2	-3	-	0	FFo	34	97	1	1450	St.	10	-	10	•	•
Croydon	1018·2	-2	S/E	3	mmc	37	92	4	-	-	0	A.St.	10	•	•
Shoeburyness	1019·7	-1	-	0	fo-	37	97	3	1500	St.	10	-	10	•	•
Clacton-on-Sea	1019·3	-1	SSW	2	FFo	36	97	1	1450	St.	10	-	10	0	•
Felixstowe	1018·9	-1	SSW	1	FFo	35	97	1	1450	St.	10	-	10	0	•
Lympne	1018·9	-2	SSE	2	b c+	39	92	5	4000	St.Cu	2	A.St.	6	•	•
Sandwich	1018·5	-5	SSW	8	o/r	50	97	5	2500	Nb.	10	-	10	6	•
Scilly (St. Mary's)	1011·9	-5	SSW	8	c/r	50	92	6	2500	Nb.	6	A.St.	10	2	•
Falmouth (Pendennis)	1012·9	-5	S	7	o/c/o	50	85	6	800	Nb.	10	-	10	5	•
Plymouth (Mt. Batten)	1015·3	-3	S/W	5	o/r	49	85	7	1500	Nb.	10	-	10	4	•
Portland Bill	1018·1	-3	SSE	4	c/o	46	85	7	800	Nb	10	-	10	0	•
Southampton (Calshot)	1019·4	-1	WSW	2	c/f	39	85	7	800	Cu.	4	Cu.St.	9	2	•
Dungeness	1019·0	-1	S	3	ORR	46	85	5	2500	Nb.	10	-	10	3	•

LONDON OBSERVATIONS.

Height above M.S.L. in feet.

Day 7h.-18h., Kew & Croydon.
9h.-16h., Kensington.
9h.-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperatures. Max. Day. °F.	Temperatures. Min. Night. °F.	Temperatures. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility
		24 HOURS ENDED 9h.			YESTERDAY.						TO-DAY.		
Kew	18	0f+	0f	f(mmc)	34	34	32	Tr.	6	2·2	*	*	6
Croydon	244	d(f)fe	fe(bank)	f(mmc)	37	37	36	0·1	6	0·4	*	*	6
Greenwich (Royal Obsy.)	149	dfe.fe	dfe.fe	f(mmc)	42	42	31	Tr.	6	0·0	99	92	6
City (Bunhill Row)	80	dfe.fe	dfe.fe	c(f)d	42	42	31	Tr.	6	0·0	99	92	6
Westminster (St. James' Pk.)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Regent's Pk. (Botanic Gdns.)	37	o	*	*	51	34	31	Tr.	5	0·0	92	91	6
Camden Square	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Kensington Palace	110	s/f	f	*	42	42	*	-	6	*	*	94	*
Hampstead Observatory	480	0f	0f	*	36	36	35	-	6	*	(At 18h.) 96	97	*
		*	*	*	42	38	34	0·3	6	0·0	*	95	*

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

12th.-13th. November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·24	11·38	15·53
	7·25	11·39	15·51
Greenwich	7·26	11·45	16·4
	7·28	11·46	16·3
Wick	8·12	11·58	15·43
	8·14	11·58	15·41
Valentia	8·9	12·26	16·43
	8·10	12·27	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 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.

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
2·0	18h. 18th	0·3	1-4h. 13th

Kew Observatory

Max.	Time.	Min.	Time.
1·1	12h. 18th	0·1	5h. 13th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 18th. 17h. 0m. to 19th. 6h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
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).

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 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.	4½ "
7. Good.	13½ "
8. Very good.	27 "
9. Excellent visibility, beyond 27 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.

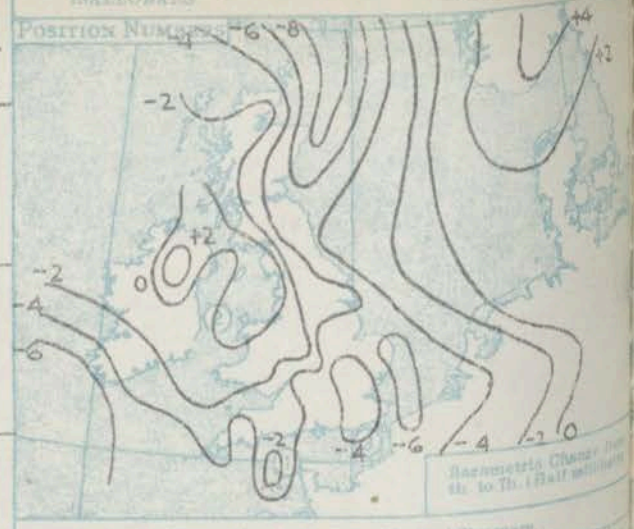
SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h.	18h.-18h.	18h.(18½h. to 1h.)2½h.	1h.-7h.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN (18h. ... Hours.
Lerwick	b	bbcaprs	occq	coirsq	40	36	•	Tr.	16·30	2	+30	3·9
Stornoway	c	o	r-d	r	39	36	•	-	-	11	21·00	1·5
Wick	c	c	oRr	oRr	41	39	•	-	-	9	21·00	•
Tiree	cm	cmrr	Rr	rRr	41	38	37	tr	14·30	15	21·00	0·2
Nairn	bc	bcc	cprq	orr	36	36	•	-	-	3	24·00	0·0
Aberdeen	bxbccx	cxcrir	cirorrq	orrm	40	39	36	01	17·30	19	21·00	1·2
Malin Head	bcc	cirrm	cirrcrc	ccbcbc	43	42	•	7	12·30	5	21·00	0·0
Renfrew	cff	rfffo	orsrsm	orrcm	38	33	31	1	12·30	11	21·00	0·0
Edinburgh (Inchkeith)	cirr	c	orrm	orrrr	39	37	35	0·3	9·00	10	21·00	0·0
Leuchars	cbmcxcx	cmc	cRoRRr	orrrrc	38	36	32	2	11·00	21	21·00	0·5
Eskdalemuir	c	cirr	crorsrdd	cddc	36	33	32	Tr.	17·30	12	21·00	0·0
Tynemouth	off	comm	oirq	oirq	42	38	32	-	-	5	21·00	•
Blacksod Point ...	rc	RR	r	rc	52	44	•	11	7-	7	•	•
Donaghadee	c	cor	oRr	c	47	46	•	5	13·30	12	21·00	•
Birr Castle	oir	oir	ORrc	crocx	48	42	30	2	9·00	2	21·00	0·0
Holyhead	bcm	oirm	rrDDq	rro	45	43	43	2	13·30	11	21·00	0·0
Liverpool (Bidston) ...	bcm	com	morr	c	37	36	33	Tr.	17·30	5	21·00	0·4
Chester (Sealand) ...	bcofm	omnr	orrm	rc	36	36	35	02	17·30	2	21·00	0·0
Harrogate	bbcc	comf	ofocRrr	ocqir	40	34	32	-	-	9	21·00	1·5
Spurn Head	bcpf	ofq	ofmorr	qrrq	40	34	•	-	-	11	22·00	3·1
Birmingham (Edgbaston)	bcm	fbcor	orr	orrr	37	35	35	06	17·30	12	21·00	0·4
Cranwell	ofc	ofc	OFRcr	ORRcrm	36	33	33	Tr.	-	9	21·00	0·0
Gorleston	ffo	ffocx	focc	coRrrq	35	31	31	Tr.	23·00	10	1·30	0·0
Valentia (Cahirciveen)	crrrcrr	coirc	cprc	c	55	47	40	28	23·00	0·3	21·00	0·0
Roches Point	crr	crr	crrcir	circ	52	50	•	15	9·00	5	21·00	•
Pembroke (St. Ann's H.)	crr	crrq	crrqm	oddmo	50	48	•	10	11·00	23	21·00	0·0
Ross-on-Wye	bfofbfcf	ofomfo	dmRorrq	rrorr	40	40	39	01	17·30	23	21·00	0·1
Leafield	FFo	FFor	Or RRo	ORR	34	33	33	03	17·30	20	21·00	0·0
Winchester (Worthy Dn.)	ofofc	offmor	orrm	ocorrrq	42	41	40	02	17·30	14	21·00	0·0
S. Farnborough ...	ofxofc	ofocm	cmorro	orr	35	35	33	01	-	8	21·00	0·0
London (Kew Obsy.) ...	ofx	of	Ofomfor	omorrm	34	34	32	Tr.	-	6	21·00	22 0·0
Croydon	ofofofc	ofobcmcf	cmmirm	cmorrd	37	37	36	01	18·00	6	21·00	0·4
Shoeburyness	off	offoff	ofecr	orrq	37	36	35	Tr.	-	7	1·30	0·0
Clacton-on-Sea ...	offo	off	offcbcc	corr	36	36	36	-	-	4	3·30	0·0
Felixstowe	ofofc	bfofc	ofeom	omrr	35	35	35	Tr.	-	6	24·00	0·0
Lympne	obf	bfbcm	bccorr	orrddd	39	38	33	-	-	3	24·00	0·5
Scilly (St. Mary's) ...	bccrr	orrm	orrm	orrm	51	48	•	5	11·00	12	21·00	0·0
Falmouth (Pendennis)	crq	crqm	oRq	ORqm	51	50	•	6	11·00	25	21·00	0·3
Plymouth (Mt. Batten)	bmxcrq	corrqm	omrrq	omRRq	50	49	47	9	11·00	17	21·00	0·3
Portland Bill	bfbcc	ocfcfo	oirc	ocRRRc	56	44	•	06	14·30	9	21·00	•
Southampton (Calshot)	ofofc	ofcmcf	orrqc	cqrrrrq	46	44	42	Tr.	17·30	5	21·00	0·0
Dungeness	off	offc	ccrr	cqr	40	37	•	-	-	2	22·00	•
Guernsey	bccno	or	cocco	oqbro	47	46	46	1	17·30	3	21·00	3·3

ISALLOBARS

19th NOVEMBER 1929

POSITION NUMBERS



Barometric Change in 6h. to 7h. (Half millibars)

Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
C	18th 10h	Cambria	SSE	4	fr.	46	53

GENERAL INFERENCE.

A large low-pressure system westward of Ireland is moving gradually east and secondaries are likely to pass in a north-easterly direction across the British Isles. Weather will be unsettled generally with moderate or rather high temperature.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 19th November, 1929.	Further Outlook.
1. S.E. England ⚜ 2. E. England ⚜ 3. E. Midlands 4. W. Midlands 5. S.W. England ⚜	Wind southerly, fresh or strong locally, veering later; cloudy or dull; rain or drizzle at times; perhaps fairer intervals later; mild.	Unsettled.
6. South Wales ⚜ 7. North Wales 8. N.W. England	Wind southerly, fresh; cloudy; some fairer intervals; further rain later; rather high or moderate temperature.	
9. N. Midlands 10. N.E. England ⚜	As 1 - 5.	
11. S.E. Scotland ⚜ 12. S.W. Scotland & Isle of Man 13 (A. W. Scotland, B. N.W. Scotland)	Wind between southeast and southwest, moderate or fresh; cloudy; perhaps occasional rain or showers; some fairer intervals; moderate temperature.	
14. Mid-Scotland 15. N.E. Scotland ⚜ 16. Orkneys and Shetlands ⚜	Wind between southeast and southwest, moderate or fresh; cloudy; some rain; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland	As 11 - 13.	
19. S.E. Ireland 20. S.W. Ireland ⚜	Wind southerly, fresh, or strong locally, veering later; cloudy; further rain probable; rather high or moderate temperature.	

⚜ South Cone still flying in District 20.
⚜ South Cone hoisted today; at 11h. 25 m. in Districts 5 and 19h. in Districts 15 and at 20h. in District 1.
⚜ South Cone hoisted today at 2h. in Districts 2, 10 and 11.

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

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

‡ For code see page 1

Pt 140/1935 50,41 2/2008. 14/100. 4/29.

SYNOPTIC CHART FOR 7h. TUESDAY, 19th. NOVEMBER, 1929

Scale - 1:10,000,000

Nautical Miles

Statute Miles

LOW

HIGH

1029

Bar changes slight

Barometer Falling Rapidly

Bar falling slight

Briskly changes

Barometer Falling

Bar

"Megantic"

Doric

H.M.S.

32 Fine +1

28 Fine -2

37 Snow -1

37 Showers -0

39 Ocast -7

42 Rain

44 Heavy Rain

42 Rain

44 Rain

43 Fine

38 Drizzle

45 Ocast

45 Rain

43 Fine

53 Cloudy

51 Cloudy

54 Drizzle

51 Rain

45 Rain

49 Rain

54 Rain

54 Heavy Rain

53 Heavy Showers

37 Rain

36 Cloudy

36 Mist

34 Fine

38 Fine

30 Fine

28 Cloudy

32 Thick Fog

32 Fog

30 Fog

32 Snow Showers

5 Fine

34 Cloudy

50 Sea 50 Showers

47 Sea 50 Cloudy

60 Sea 59 Cloudy

996

998

1000

1002

1004

1006

1008

1010

1012

1014

1016

1018

1020

1022

1024

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 ⅞ clouded. ● Sky more than ⅞ clouded. ⊜ Overcast sky. ▲ hail. ● rain falling. ≡ fog. ≋ mist. ϟ thunder. ϟ F thunderstorm.

SEA DISTURBANCE. Rough. Very Rough.

In ICELAND barometric changes from ½ to ½ in. to half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Tuesday 18th November 1929. No. 323

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

STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	34	1007.8	-5	S	4	c	40	65	8	1500	StCu	4	A.Cu	8
Stornoway	30	995.4	-6	[illegible]	5	o/r	*	*	6	*	*	*		10
Wick	61	1001.5	-10	SSE	9	ORR	42	92	8	1500	Nb	10	-	10
Tiree	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	991.4	-2	S	4	c	47	97	8	4000	StCu	8	A.St	10
Renfrew	56	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	998.7	-11	E	3	o/r	38	92	7	800	Nb	10	-	10
Leuchars	80	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	97	1001.8	-6	S	4	o/r	41	97	7	1500	Nb	10	-	10
Blacksod Point ...	18	990.7	-1	S	5	R	47	85	7	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	996.1	-6	S	6	ODD	51	97	5	1500	Nb	10	-	10
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1006.0	-4	S'W	7	o/r	40	97	6	2500	Nb	10	-	10
Birmingham (Edgbaston)	585	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	350	1006.9	-10	S'W	6	c.d.	39	92	6	800	Nb	8	A.St	10
Gorleston	14	1013.0	-5	S'W	5	c	43	92	6	4000	Nb	5	A.St	10
Valentia (Cahirciveen)	30	994.0	-4	SW	5	o/p	53	92	8	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	160	997.5	-5	SW	8	oRR	53	97	6	800	Nb	10	-	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Do.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	43	*	*	*	*	*	*	*
Croydon	244	1012.1	-6	SSW	4	c/r	43	85	6	800	Nb	6	A.St	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1014.3	-5	S	5	o.c.	43	85	5	1500	St	10	-	10
Scilly (St. Mary's) ...	168	1001.4	-4	SW'S	8	oR-	53	97	5	2500	Nb	10	-	10
Falmouth (Pendennis)	200	1005.3	-6	SW'S	9	oRR	52	97	6	1500	Nb	10	-	10
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1007.7	-8	S	8	or	52	85	7	1500	Nb	10	-	10
Southampton (Calshot)	10	1011.6	-6	S	6	o/r	49	78	7	800	St	10	-	10
Dungeness	30	1014.1	-5	SW	5	crr	46	97	7	1500	Nb	6	CuSt	10
Guernsey (St. Peter Port)	173	1011.0	-6	S	6	c/r	51	85	6	2500	StCu	10	-	10

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	1000.6	-9	SE	5	o/r	42	92	7	1500	Nb	10	-	10
Stornoway	988.5	-3	SE	3	o/r	42	97	6	2500	Nb	10	-	10
Wick	991.1	-11	SSE	5	ORR	44	97	7	1500	Nb	10	-	10
Tiree	988.5	0	SW	2	c/r	43	97	7	2500	St	8	Cicu	10
Nairn	990.0	*	-	0	o/r	37	92	7	800	Nb	10	-	10
Aberdeen	991.4	-8	SSE	3	o/r	44	92	6	800	Nb	10	-	10
Malin Head	990.6	0	SSW	3	b	43	97	8	4000	StCu	1	-	1
Renfrew	991.6	-2	-	0	0d.d.	38	97	4	800	Nb	10	-	10
Edinburgh (Inchkeith)	991.8	-6	ESE	2	C	42	97	8	1500	St	8	-	8
Leuchars	991.2	-6	-	0	c/r	40	92	7	1500	Nb	8	-	8
Eskdalemuir	992.4	0	SSW	4	0	47	97	6	220	St	10	-	10
Tynemouth	992.8	-4	S	3	c/p	45	97	6	1500	Nb	10	-	10
Blacksod Point ...	989.7	0	S	3	o/r	48	85	8	*	StCu	10	-	8
Donaghadee	990.7	-1	S'W	2	C	49	85	7	4000	Stu	8	-	6
Birr Castle	992.2	-1	S	1	bc-	43	97	7	4000	StCu	4	CiCu	8
Holyhead	995.7	+1	SSW	4	C-	53	97	6	2500	St	6	Alst	10
Liverpool (Bidston) ...	993.4	+1	S'E	4	C	52	92	8	1500	Nb	10	-	10
Chester (Sealand) ...	993.4	-1	SE	1	C	51	92	7	1500	St	8	Alst	10
Harrogate	995.0	-3	S	5	c r.	50	92	5	2500	Nb	3	Alst	10
Spurn Head	998.9	-3	SW'S	7	c r.	45	97	6	4000	Nb	6	Alst	10
Birmingham (Edgbaston)	1000.3	-1	S	4	o/r.	51	97	7	800	Nb	10	-	10
Cranwell	1000.7	-5	S	5	c.d.	48	92	6	450	Nb	9	Alst	10
Gorleston	1006.6	-7	SSW	7	o/r	45	97	5	1600	Nb	10	-	10
Valentia (Cahirciveen)	998.5	-7	SSE	3	c	51	85	8	1500	St	10	-	9
Roches Point	999.4	-3	SW	2	c	61	97	7	1500	Cu Nb	9	-	10
Pembroke (St. Ann's H.)	999.4	-1	SW	6	c.d.	54	97	6	800	Nb	10	-	10
Ross-on-Wye	1000.0	-2	S	4	o/r	53	92	6	1500	Nb	10	-	10
Leafield	1001.6	-5	S	6	o/r	49	97	5	220	Nb	10	-	10
Winchester (Worthy Do.)	1005.2	-3	S'W	6	o.d.	50	97	6	220	Nb	10	-	10
S. Farnborough ...	1006.1	-5	SSW	6	o/r	49	97	6	450	Nb	10	-	10
London (Kew Obsy.) ...	1006.5	-4	S'W	4	o/r	49	97	6	800	Nb	10	-	10
Croydon	1006.7	-5	SSW	6	o.d.	49	92	5	450	Nb	10	-	10
Shoeburyness	1007.8	-3	SSW	6	o	46	97	8	450	St	10	-	10
Clacton-on-Sea ...	1007.7	-4	SSW	5	o/r	45	92	6	2500	St	10	-	10
Felixstowe	1008.4	-4	S'W	6	o/r	44	97	6	450	Nb	10	-	10
Lympne	1009.7	-4	S'E	6	o.d.	45	92	6	800	St	10	-	10
Scilly (St. Mary's) ...	1008.9	-5	SW	7	o/r	54	97	6	2500	Nb	10	-	10
Falmouth (Pendennis)	1000.1	-3	SW	8	OR	55	97	6	2500	Nb	10	-	10
Plymouth (Mt. Batten)	1000.7	-4	SW	8	o/r	54	97	7	450	Nb	10	-	10
Portland Bill	1003.3	-3	S'W	8	ORR	54	92	6	800	Nb	10	-	10
Southampton (Calshot)	1006.5	-5	S'W	7	o/r	51	85	7	800	Nb	10	-	10
Dungeness	1008.5	-4	SSW	7	c r	47	97	7	2500	Nb	10	-	10
Guernsey (St. Peter Port)	1007.8	-2	S	5	c/pR	53	92	6	1500	Stu	10	-	10

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 17th to 9h. 18th. °F.	Temperature. Max. 9h. 17th. to 18th. °F.	Rainfall.† Night 17h.-9h. 17th.-18th. mm.	Rainfall.† Day 9h.-17h. 18th. mm.	Sunshine. Sunrise to Sunset. 18th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	o	30	41	-	-	0.0
Douglas (I. o. M.) ...	co	op	32	45	-	1	0.0
Llandudno ...	ao	od	31	43	-	-	0.3
Colwyn Bay ...	cbc	cbcc	32	43	-	-	0.7
Rhyl	bxm.	fbm.	29	43	-	-	0.0
Wallasey	fo	o	29	38	-	-	0.0
Southport	xfm	mo	*27	37	-	-	0.0
Blackpool	om	co	28	37	-	-	0.0
Morecambe ...	c	c	24	38	-	-	0.0
Ilkley	xm	omo	27	35	-	-	0.0
Cleethorpes	bff	bff	31	41	-	-	2.6
Mablethorpe. ...	bxmo	bff	32	40	-	-	3.7
Skegness	bscf	fe	27	34	-	-	0.0
Aberystwyth ...	xmc	mcpb	32	44	-	-	0.3
Bath	ff	fmc.	27	38	-	0.3	0.0
Cheltenham ...	xbc	bo	28	37	-	-	1.2
Leamington Spa ...	om	obcm	25	37	-	-	0.0
Lowestoft	ff	ff	30	36	0.2	-	0.0
Harwich & Dovercourt	oif	oif	31	38	-	-	0.0
Maldon	ffo	ffo	31	35	-	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	op	orr	36	45	-	12	0.0
Bude	xbcc	corr	29	46	-	5	0.0
St. Ives	bcor	r	38	50	-	10	0.0
Penzance	cr	crr	36	52	-	7	0.0
Paignton	bmefor	porrq	28	47	-	5	4.0
Torquay	efxof	orporq	33	49	-	-	1.3
Jersey	bfbc	bcc	34	51	-	-	0.0
Weymouth	bfm	obo	30	50	-	-	0.0
Bournemouth ...	f	o	26	47	-	-	3.0
Ventnor ...	xbz	ou	31	47	-	-	0.4
Portsmouth (S'thsea)	f	bcf	30	43	-	-	3.1
Bognor Regis ...	cbcb	bc	30	43	-	-	0.0
Littlehampton ...	bcm	bcc	30	42	-	-	0.0
Worthing	bcb	bbcf	30	46	-	-	0.0
Brighton	bcb	bc	31	46	-	-	0.0
Eastbourne	mb	bf	32	43	-	-	0.0
Hastings	xmbcc	bccm	32	46	0.3	-	0.0
Folkestone	wbz	bc	34	50	-	-	0.0
Dover	fcbc	fbcm	34	48	-	-	0.0
Deal	fff	fff	34	37	-	-	0.0
Tunbridge Wells ...	of	of	30	35	-	-	0.0
Ramsgate	cbmf	bf	36	38	-	-	0.0
Margate	c	cf	36	38	-	-	0.0
Southend	offe	offe	31	36	-	-	0.0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24835 Wednesday 20th November 1929.

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

STATIONS. (For heights see p. 4).	Baromr. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	994·0	-12	SE	8	orr	42	92	7	1500	Nb	10	-	10	*
Stornoway	988·6	0	SW	1	bc-	37	85	7	4000	CuNb	4	ACu	6	*
Wick	989·6	+1	WSW	4	bc	43	92	7	1500	Nb	4	ACu	6	*
Tiree	989·4	0	SSW	3	c	47	85	8	2500	StCu	8	CCu	9	1
Nairn														
Aberdeen														
	991·8	+1	SSE	3	b	46	92	5	1500	Nb	1	CSt	2	1
Malin Head	983·4	-3	SE	2	c	45	92	8	2500	StCu	9	-	9	*
Renfrew	992·8	+2	SSW	3	c	47	85	6	1500	St	2	ASt	3	2
Edinburgh (Inchkeith)	992·8	0	WSW	2	c	48	85	7	1500	St	2	ASt	8	*
Leuchars	992·0	+1	W	1	c+	46	85	6	1500	St	5	CSt	9	2
Eskdalemuir	992·2	-2	SW	4	o	48	91	6	450	St	10	-	10	2
Tynemouth	994·3	0	SW	2	o	52	92	5	1500	Nb	10	-	10	*
Blacksod Point	986·2	-2	S	3	c	48	85	8	*	-	0	ASt	9	*
Donaghadee	990·2	-2	SSE	2	cr	49	85	7	2500	Nb	9	-	9	*
Birr Castle	985·3	-6	SSE	1	or$_r$	52	97	7	2500	Nb	10	-	10	*
Holyhead	991·8	-7	S'E	4	c/r	53	97	7	450	St	9	ASt	10	2
Liverpool (Bidston)	993·1	-4	SSE	4	orr	53	92	6	1500	Nb	10	-	10	*
Chester (Sealand)	993·5	-4	SSE	4	or$_r$	54	92	6	1500	Nb	10	-	10	2
Harrogate	996·0	-1	S	3	orr	52	97	5	2500	St	10	-	10	*
Spurn Head	997·7	-1	SW'S	6	orr	50	97	6	2500	Nb	10	-	10	8
Birmingham (Edgbaston)	998·1	-3	SSW	5	orr	53	97	6	800	Nb	10	-	10	2
Cranwell	999·1	-3	S'W	5	crr	53	92	6	450	Nb	9	ASt	10	2
Gorleston	1004·6	-2	SSW	7	or-	47	97	6	1500	Nb	10	-	10	*
Valentia (Cahirciveen)	982·7	-5	S	3	c	53	92	8	1500	St	9	-	9	2
Roches Point	987·4	-5	SW	3	orr	53	97	6	800	Nb	10	-	10	*
Pembroke (St. Ann's H.)	992·8	-3	SW	6	orr	55	97	5	450	St	10	-	10	*
Ross-on-Wye	997·4	-3	SSW	6	orr	55	92	7	2500	Nb	10	-	10	2
Leafield	1000·2	-2	S	6	oRR	52	97	8	450	Nb	10	-	10	2
Winchester (Worthy Dn.)	1003·5	-2	SSW	6	ODD	52	97	6	220	Nb	10	-	10	2
S. Farnborough	1003·7	-2	SSW	5	odd	51	97	6	450	Nb	10	-	10	2
London (Kew Obsy.)	1004·2	-1	SSW	4	cr$_r$o$_r$	51	92	6	800	Nb	9	ASt	10	2
Croydon	1005·1	-2	SSW	6	od.d$_o$	51	92	6	220	Nb	10	-	10	2
Shoeburyness	1006·2	-1	SSW	6	c/d	49	92	8	1500	StCu	7	ASt	9	*
Clacton-on-Sea														
Felixstowe														
Lympne	1006·0	-3	S'W	6	d/r	48	92	7	800	St	10	-	10	2
	1008·1	-2	S'E	45	od.$_o$	48	85	6	800	St	10	-	10	2
Scilly (St. Mary's)	993·9	-3	SSW	7	or$_o$	55	97	6	2500	Nb	10	-	10	*
Falmouth (Pendennis)	996·3	-5	SW	9	oR	55	97	6	2500	Nb	10	-	10	*
Plymouth (Mt. Batten)	999·1	-2	SW	7	orr	54	97	6	450	Nb	10	-	10	2
Portland Bill	1000·8	-1	S'W	8	oRR	56	85	6	800	Nb	10	-	10	*
Southampton (Calshot)	1004·7	-2	S'W	7	c/r	53	85	6	800	Nb	8	ASt	10	2
Dungeness	1007·3	-2	SW	7	cR	51	92	7	1500	Nb	5	CSt	10	*
Guernsey (St. Peter Port)	1005·6	-3	S	6	c	56	85	6	2500	StCu	10	-	10	*

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

Baromr. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	°F.	Humidity. %	Visibility. 0-9	Cloud. Low. Heights Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
992·5	+3	SE	3	c	47	85	8	1500	StCu	5	(1st)	5	*
987·1	-3	SSE	2	c-	44	92	7	4000	Nb	8	-	8	
990·2	-1	SW	3	c	44	92	8	1500	StCu	6	(1st)	9	3
983·6	-8	SE'E	4	c/pG	47	85	8	2500	StCu	8	(1st)	10	3
989·1	*	-	0	c	39	85	7	1500	St	8	-	8	*
991·6	-2	SSW	1	mc+	43	92	4	1500	St	1	(1st)	9	1
981·6	-9	SE	4	cr	50	97	7	2500	Nb	4	(1st)	10	5
985·0	-5	E	4	oRR	46	97	6	1500	Nb	10	-	10	*
990·1	-3	SE	2	orr	47	97	7	800	Nb	10	-	10	8
990·4	-3	E	1	orr	45	97	6	800	Nb	10	-	10	*
988·6	-5	S'E	4	orr	51	97	6	450	Nb	10	-	10	*
992·2	-1	SSW	2	o/r	53	92	6	1500	Nb	10	-	10	2
979·9	-2	S	4	oR	48	85	7	*	Nb	10	-	10	5
984·6	-4	SSE	3	orr	54	97	7	1500	St	10	-	10	2
982·3	-1	SSE	3	or$_o$	53	97	7	2500	Nb	10	-	10	*
990·2	-1	S	6	od$_o$	55	97	6	450	Nb	10	-	10	4
992·0	0	SSE	4	or-	54	97	7	1500	Nb	10	-	10	*
992·8	0	SSE	4	orr	54	92	7	800	Nb	10	-	10	*
994·4	0	S	4	or$_o$	54	92	5	2500	St	10	-	10	*
996·7	0	SW'W	7	c	51	92	7	2500	Nb	7	(1st)	10	5
997·4	0	S	5	o	55	92	8	7000	Nb	10	-	10	*
998·6	+1	S'W	6	c	53	85	7	800	Nb	7	(1st)	10	*
1003·4	-1	SSW	6	o	50	85	6	2500	Nb	10	-	10	5
982·0	+1	SW	4	c/r	50	92	7	800	St	8	(1st)	10	5
985·2	+1	SW	3	c	52	97	7	1500	CuNb	9	-	9	6
980·9	-2	SW	6	odd	54	97	5	450	St	10	-	10	6
996·8	0	SSW	6	od$_o$	55	85	6	1500	Nb	10	-	10	*
999·3	0	S	6	od$_o$	52	97	8	450	Nb	10	-	10	*
1002·5	0	SSW	6	o	53	92	7	800	St	10	-	10	*
1002·6	0	S'W	5	o/d	52	92	7	800	Nb	10	-	10	*
1003·4	0	SSW	4	cr$_r$o$_r$	52	85	5	800	Nb	8	(1st)	10	*
1004·4	-1	SSW	5	cr$_o$	52	85	6	450	St	9	(1st)	10	*
1005·6	-1	SSW	5	c	50	85	8	1500	StCu	8	(1st)	10	*
1005·2	0	S	6	c	49	85	7	2500	St	8	-	8	4
1005·8	+1	S'W	6	c	49	75	7	1500	StCu	10	-	10	6
1006·9	0	SSE	6	o	49	65	7	1500	St	10	-	10	*
992·2	-1	SSW	8	or	54	97	5	2500	Nb	10	-	10	7
996·2	0	SW	9	oR	54	97	6	2500	Nb	10	-	10	6
998·2	0	SW	8	od.d$_o$	53	97	5	450	Nb	10	-	10	7
1000·8	+1	S	7	o/r	56	85	7	800	Nb	10	-	10	8
1004·1	+1	S'W	6	c	54	85	7	1500	StCu	9	(1st)	10	6
1005·7	-1	SSW	7	c	51	85	7	1500	StCu	10	-	10	6
1005·0	0	SSW	4	c	55	85	6	2500	StCu	10	-	10	6

LONDON OBSERVATIONS

Day 7h-18h., Kew & Croydon.
9h-18h., Kensington.
3h-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 HOURS ENDED 9h.						YESTERDAY.			TO-DAY.		
Kew	18	ocm$_r$r	cm$_r$r	cm$_r$r$_o$c	52	43	43	2	Tr.	0·0	*	*	7
Croydon	244	om$_r$d$_r$r	om$_r$d$_r$p	cm$_r$om	53	47	43	3	-	0·0	*	*	6
Greenwich (Royal Obsy.)	149	cd.d	cd.c	c$_r$o$_r$c	53	46	37	0·5	-	0·0	85	70	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	-
Westminster (St. James' Pk.)	27	*	*	*	54	48	39	1		0·0	93	87	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	oro	oro	*	52	48	*	2	-	*	*	78	*
Kensington Palace	80	or	o	*	54	45	39	1	-	*	(At 18h) 72	74	*
Hampstead Observatory	460	*	*	*	52	46	37	2	0·3	0·0	*	85	*

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

20th & 21st November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·25	11·39	15·51
	7·27	11·39	15·50
Greenwich	7·25	11·46	16·3
	7·29	11·46	16·2
Wick	8·14	11·58	16·41
	8·17	11·58	15·39
Valentia	8·19	12·27	16·42
	8·43	12·27	16·41

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 20th

South Kensington

Max.	Time.	Min.	Time.
0·6	10h 19th	<0·3	1-6h 20th

Kew Observatory

Max.	Time.	Min.	Time.
0·1	13h 13th	<0·1	3h 20th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 12th 17 h. 0 m. to 20th 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13·30	8·13	61
δ Ursae Minoris	13·30	6·44	50

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).

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; sumx o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

SEA DISTURBANCE.

0=no swell } Calm or
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.

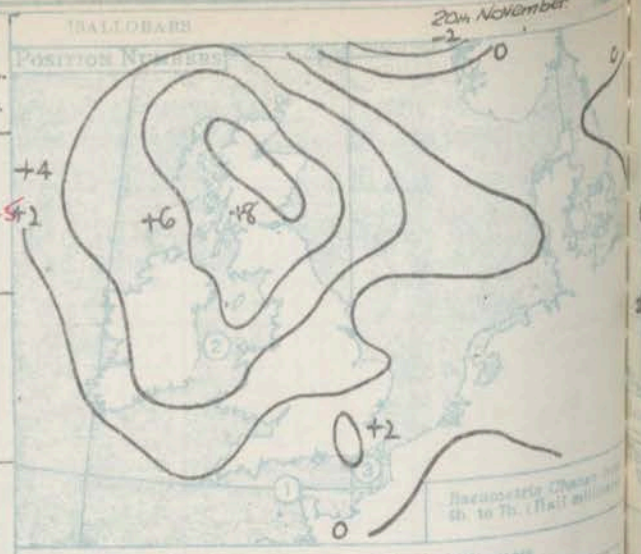
	Objects not visible at 65 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	½ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. (12 hrs.)	WEATHER. 18h.-18h. (24 hrs.)	WEATHER. 18h. (20th) to 18h. (20th)	WEATHER. 18h.-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 (20th) Hours.
Lerwick	orr	orrc	cour		47	47	*	8	<8·00	7	<21·00	0·0
Stornoway					47	43	*	1	<8·00	12	<21·00	1·0
Wick					45	44	*	0·5	<8·00	4	<21·00	
Tiree					47	44	39	0·2	<8·00	8	<21·00	0·0
Nairn					39	38	*	1	<8·00	4	<21·00	1·4
Aberdeen					46	42	39	0·3	<8·00	6	<21·00	3·1
Malin Head					50	42	*	3	15·30	3	<21·00	0·0
Renfrew					48	44	42	8	15·30	11	<21·00	0·5
Edinburgh (Inchkeith)					48	45	44	2	15·30	2	<21·00	1·7
Leuchars					47	44	43	3	~~15·30~~ 18·00	5	<21·00	2·8
Eskdalemuir					50	44	44	5	9·00	19	<21·00	0·0
Tynemouth					53	~~45~~ 49	43	0·3	14·30	01	<21·00	*
Blacksod Point					52	45	*	2	*	6		*
Donaghadee					54	43	*	8	12·30	1	<21·00	*
Birr Castle					54	40	29	2	<8·00	Tr.	<21·00	0·0
Holyhead					55	49	46	3	9·00	7	<21·00	0·0
Liverpool (Bidston)					55	50	46	4	9·00	1	<21·00	0·0
Chester (Sealand)					56	49	44	4	11·00	0·2	<21·00	0·0
Harrogate					54	50	47	5	<8·00	Tr.	<21·00	0·0
Spurn Head					51	46	*	3	11·00	01	22·00	0·0
Birmingham (Edgbaston)					55	50	49	11	<8·00	0·5	<21·00	0·0
Cranwell					54	45	42	5	9·00	0·2	22·00	0·0
Gorleston					50	47	42	3	<8·00	–	–	0·0
Valentia (Cahirciveen)					54	43	40	10	<8·00	3	<21·00	0·0
Roches Point					54	46	*	5	9·00	3	22·00	*
Pembroke (St. Ann's H.)					55	51	*	9	<8·00	2	<21·00	0·0
Ross-on-Wye					55	51	49	6	<8·00	4	<21·00	0·0
Leafield					52	47	46	13	<8·00	01	<21·00	0·0
Winchester (Worthy Dn.)					53	47	43	8	<8·00	–	–	0·0
S. Farnborough					52	48	42	6	<8·00	–	–	0·0
London (Kew Obsy.)					52	49	43	2	<8·00	Tr.	<21·00	0·0
Croydon					53	47	43	3	<8·00	–	–	0·0
Shoeburyness					51	44	42	0·1	<8·00	–	–	0·0
Clacton-on-Sea					49	46	42	0·5	<8·00	–	–	0·0
Felixstowe					50	47	43	0·1	<8·00	–	–	0·0
Lympne					50	44	38	2	<8·00	–	–	0·0
Scilly (St. Mary's)					55	48	*	5	<8·00	2	<21·00	0·0
Falmouth (Pendennis)					56	49	*	7	<8·00	4	21·00	0·0
Plymouth (Mt. Batten)					55	50	50	11	<8·00	11	<21·00	0·0
Portland Bill					57	52	*	5	<8·00	–	–	*
Southampton (Calshot)					54	50	48	1	<8·00	–	–	0·0
Dungeness					53	48	*	2	<8·00	–	–	*
Guernsey					56	51	45	1	<8·00	–	–	0·0



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	19th 16h	Cambria	S	3	r	54	53
1	" 13h	St. Helier	SSW	8	c	57	66
3	20th 2h	Dieppe	SSW	6	bc	61	63

GENERAL INFERENCE.

A large low-pressure system westward of the British Isles is moving slowly northeast and a secondary depression off Western Spain is likely to move in a northeasterly direction causing strong southerly or southeasterly winds in southern and eastern districts of England. Weather will be rather unsettled generally; though bright intervals are probable, especially in the West and North.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 20th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind southerly or southeasterly, moderate or fresh, perhaps becoming strong; cloudy; some rain; mild.	Unsettled; some bright periods.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind southerly, moderate; some bright periods; perhaps occasional rain; moderate or relatively high temperature.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland, B. N.W. Scotland) 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind south or southwest, moderate or fresh, perhaps veering later; some bright periods; occasional rain or showers; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind south or southwest, moderate or fresh; some bright periods; occasional rain or showers; moderate temperature.	

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

† For code see page 1. Trace = rain has fallen, but amount too small to measure.

SYNOPTIC CHART FOR 7h. WEDNESDAY, 20TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles

Statute Miles

HIGH.

Barometer 1004 1002

Falling Slowly

Bar. Falling Rapidly.

LOW.

Barometer

Falling Slowly

Barometric Changes

HIGH.

Slight.

LOW.

MAJESTIC

"H.M. ship"

Rain

Showers

Fine

Cloudy

Overcast

Fog

Snow.

Sea.

976 978 980 982 984 986 988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020

EXPLANATION.

PRESSURE. Isobars are drawn for intervals of two millibars.

WIND. Arrows fly with the wind. Long feathers indicate Beaufort force. Mean velocity in miles per hour entered in small circle.

TEMPERATURE is given in degrees F.

CLOUDS. Clear. Only less than ½ clouded. ◐ sky more than ½ clouded. ● rain falling. ≡ fog. ≈ mist. ∞ thunder. ≋ showers. ≈ drizzle.

STATE OF SEA. Very Rough. Moderate. Slight.

WEATHER. Intermediate changes from hour to hour are entered in half millibars. The word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday 20th November 1929. No. 324

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

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	34	980.1	-5	SE	5	orr	48	97	7	1500	Nb	10	-	10
Stornoway	30	979.8	-7	E	4	ORR	*	*	5	*	*	*	*	10
Wick	81	982.8	-8	S	6	C	61	97	7	1500	Nb	5	Acu	8
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	982.0	+3	S	5	b/p	47	92	8	2500	CuNb	2	Acu	4
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	987.7	0	SW	3	0	64	65	8	1500	St	10	-	10
Lenchars	20	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	992.0	+1	SSW	2	0	55	86	6	1600	Nb	10	-	10
Blacksod Point	48	983.3	+1	S	4	C	48	75	7	*	CuNb	10	-	10
Donaghadee	46	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	991.7	+3	SW	5	C/PR	51	85	7	4000	St	9	Fst	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	987.9	0	SW'S	6	C	51	92	7	4000	Stm	10	-	10
Birmingham (Edgbaston)	538	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	229	992.2	0	S	6	C	52	86	6	800	Stm	10	-	10
Gorleston	14	1004.0	0	S'W	6	C/D	49	85	6	-	-	0	Ci St	8
Valentia (Cahirciveen)	30	983.4	+4	SW	2	Ocr	47	92	9	*	Stm	4	-	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	156	993.4	+2	SW	5	O/r	51	92	7	800	Nb	10	-	10
Ross-on-Wye	295	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Do.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	49	*	*	*	*	*	*	*
Croydon	244	1005.8	0	SW	4	Oc-	49	75	6	-	-	0	Ci	7
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	56	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	359	1006.7	-1	SEE	4	C	47	76	6	-	-	0	Ci St	8
Scilly (St. Mary's)	163	996.7	+4	WSW	45	C-	51	92	7	4000	Stm	6	Ci St	8
Falmouth (Pendennis)	200	997.3	+2	WSW	6	OR-	53	97	6	2500	Nb	10	-	10
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	82	1000.6	-1	S	7	C	54	75	7	1500	Stm	10	-	10
Southampton (Calshot)	10	1003.8	-1	S'E	4	C	52	66	7	2500	Stm	3	Fst	8
Dungeness	30	1005.4	0	S	5	Oc-	51	75	7	-	-	0	Fst	6
Guernsey (St. Peter Port)	173	1004.0	0	S	3	Oc-	51	75	7	4000	Stm	4	Acu	6

Observations at 7h. 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
Lerwick	1000.0	-2	S	4	O	61	92	6	1500	Nb	10	-	10
Stornoway	984.4	+8	S	5	C	46	85	7	2500	Stm	8	-	8
Wick	985.7	+6	SSW	5	bc	49	85	8	1500	Nb	4	Ci St	6
Tiree	986.8	+6	SW	7	bc	47	85	8	1500	Stm	6	-	6
Nairn	988.4	*	-	0	bc-	43	95	8	2600	Cu	4	-	4
Aberdeen	992.4	+6	SSW	3	bc	50	75	8	1500	Nb	7	-	7
Malin Head	990.1	+6	S	5	b	43	97	8	4000	Stm	1	Acu	1
Renfrew	994.6	+3	SW	4	C/r	47	85	8	2500	Cu	8	-	8
Edinburgh (Inchkeith)	993.2	+7	SW	3	bc	48	75	8	4000	St Cu	2	Ci	3
Lenchars	993.3	+3	SW	4	bc-	48	75	8	2500	Stm	2	Ci	3
Eskdalemuir	995.2	+7	SW	4	bc	45	85	6	1500	Stm	7	-	7
Tynemouth	996.2	+6	SW	2	C	61	75	7	1500	Nb	8	-	8
Blacksod Point	988.2	+3	S	4	C	48	75	7	*	CuNb	10	-	10
Donaghadee	993.2	+6	S	2	b	44	85	8	4000	Cu	2	Ci	2
Birr Castle	993.6	+4	SSW	1	C	41	85	8	-	-	10	Ci St	10
Holyhead	997.8	+6	SW'S	4	C/D	49	85	7	4000	St	2	-	8
Liverpool (Bidston)	998.2	+4	S'W	3	C	50	75	8	2500	Nb	8	-	8
Chester (Sealand)	998.2	+5	S'E	2	C	49	75	7	5700	Stm	8	-	8
Harrogate	999.5	+5	SSW	1	C	50	92	7	4000	Nb	7	Fst	9
Spurn Head	1002	+2	SSW	5	C	47	85	7	4000	Stm	8	Ci St	10
Birmingham (Edgbaston)	1001.4	+3	SSE	3	Or	61	97	8	800	Nb	10	-	10
Cranwell	1002.1	+4	S'E	3	C	46	85	6	4000	Stm	6	Acu	9
Gorleston	1005.8	+2	S'W	4	bc	48	85	6	4000	Cu	3	Acu	5
Valentia (Cahirciveen)	998.7	+2	S'E	2	C/pc	46	92	8	2500	Stm	2	Fst	10
Roches Point	999.9	+4	SW	4	bc	50	85	7	2500	CuNb	6	-	6
Pembroke (St. Ann's H.)	998.7	+4	S	2	bc-	52	75	7	4000	Cu	4	Acu	6
Ross-on-Wye	1001.1	+2	W'S	2	C/C	51	92	7	2500	Nb	9	Fst	10
Leafield	1001.2	+2	SSE	4	C	47	85	8	1500	St	9	-	9
Winchester (Worthy Do.)	1003.3	+1	S'E	3	O+	49	75	8	2500	St	10	-	10
S. Farnborough	1003.3	+1	SSE	2	C	49	75	6	4000	Stm	10	-	10
London (Kew Obsy.)	1004.5	+2	S'E	3	C	49	75	7	1500	St	7	Acu	7
Croydon	1005.1	+1	S'E	4	bc-	47	75	6	1500	St	2	Ci St	2
Shoeburyness	1006.2	0	NEE	2	bc	45	85	7	-	-	0	Acu	6
Clacton-on-Sea	1005.7	0	S	3	bc	46	85	7	-	-	0	Acu	5
Felixstowe	1006.3	0	S'W	4	C	47	85	7	-	-	0	Acu	8
Lympne	1006.4	+1	ESE	3	bc-	45	85	6	-	-	0	Ci	7
Scilly (St. Mary's)	999.0	+2	SWW	3	C	51	92	7	4000	Stm	8	-	8
Falmouth (Pendennis)	1000.2	+1	SWS	4	C	52	92	7	4000	Stm	10	-	10
Plymouth (Mt. Batten)	1000.2	+2	SSW	3	Orr	51	97	7	450	Nb	10	-	10
Portland Bill	1001.6	+1	S	6	C	53	85	7	1500	Stm	10	-	8
Southampton (Calshot)	1003.8	0	SE	4	C	51	75	7	2500	Stm	4	Fst	6
Dungeness	1005.3	+2	S	3	bc	49	85	7	-	-	0	Acu	8
Guernsey (St. Peter Port)	1003.8	0	S	3	C	52	85	7	4000	Stm	8	-	-

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19th November.

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-8h. to 9h. (8h.) °F.	Temperature. Max. 9h.-17h. (1pm.) °F.	Rainfall† Night 17h.-9h. (1 March) mm.	Rainfall† Day 9h.-17h. (1pm.) mm.	Sunshine Sunrise to Sunset. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	or	34	51	4	Trace	0.0
Douglas (I. o. M.)	or	of	42	54	8	11	0.0
Llandudno	cor	cr	36	59	1	1	0.0
Colwyn Bay	orro	orro	38	58	3	3	0.0
Rhyl	Oro	or	33	58	1	2	0.0
Wallasey	oforr	oroR	34	57	7	4	0.0
Southport	orr	rr	37	54	7	8	0.0
Blackpool	or	or	33	54	7	4	0.0
Morecambe	9c	9rrcr	30	55	10	6	0.0
Ilkley	or	oro	28	56	15	5	0.0
Claethorpes	or	od	32	53	13	3	0.0
Mablethorpe	orq	oirq	32	52	10	6	0.0
Skegness	ropr	opr	29	51	8	4	0.0
Aberystwyth	mro	roq	40	57	13	9	0.0
Bath	irir	irir	27	56	14	6	0.0
Cheltenham	or	or	36	56	22	7	0.0
Leamington Spa	or	od	31	55	18	4	0.0
Lowestoft	coir	roco	31	50	12	0.6	0.0
Harwich & Dovercourt	roc	rocd	31	49	5	1	0.0
Yeldon	ro	ro	34	51	6	1	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	rr	rr	41	57	25	8	0.0
Bude	odqp	odq	34	58	12	4	0.0
St. Ives	r	r	46	57	41	12	0.0
Penzance	orr	orrd	49	51	24	3	0.0
Paignton	odQold	qodrq	44	55	29	20	0.0
Torquay	ofqodqm	oldqorrq	45	57	13	14	0.1
Jersey	pc	c	38	56	1	-	0.0
Weymouth	rqr	droe	33	55	16	6	0.0
Bournemouth	r	r	28	54	16	8	0.0
Ventnor	oro	oue	42	53	4	Trace	0.0
Portsmouth (S'thsea)	o	o	30	54	6	-	0.0
Bognor Regis	ro	ro	40	53	8	0.3	0.0
Littlehampton	cre	c	30	53	7	0.3	0.0
Worthing	odc	oc	34	54	8	0.3	0.0
Brighton	re	cbc	32	54	6	Trace	0.0
Eastbourne	oro	oco	32	53	5	0.4	0.0
Hastings	opoc	co	45	53	5	0.6	0.0
Folkestone	orrm	ormo	36	51	2	1	0.0
Dover	orr	orc	36	52	2	2	0.0
Deal	rroc	o	35	51	2	2	0.0
Tunbridge Wells	or	o	31	51	8	2	0.1
Ramsgate	oc	c	37	51	1	-	0.0
Margate	c	occ	34	51	2	2	0.0
Southend	or	o	31	50	5	Trace	0.0

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

* Information not usually received.

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

‡ For code see page 3.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24836 Thursday 21st November 1929.

Observations at 15h. G.M.T. 20th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.	Sea. 0-9
Lerwick	994.8	+10	SW	3	c	49	75	7	1500	St.Cu.	5	A.St.	8	.	.
Stornoway	997.5	+6	SSW	6	bc/fq	48	85	7	4000	Cu+Nb.	6	A.Cu.	7	.	.
Wick	998.9	+6	SSW	6	c	48	75	8	2500	St.Cu.	6	A.St.	8	.	.
Tiree	999.1	+3	SSW	6	bc	48	85	7	2500	St.Cu.	2	Cu.St.	4	0	.
Nairn															
Aberdeen	998.9	+5	SSW	3	bc+	48	75	7	1500	Cu.	1	A.Cu.	4	1	.
Malin Head	993.7	+3	S	6	c	48	92	8	4000	Cu.	1	Cu.Cu.	9	.	.
Renfrew	999.1	+5	S	4	c	49	75	8	2500	Cu.	1	Cu.St.	9	2	.
Edinburgh (Inchkeith)	999.8	+5	SSW	2	bc+	50	65	8	4000	Cu.	2	A.Cu.	7	.	.
Leuchars	999.5	+3	SSW	3	bc	50	65	8	4000	Cu.	1	A.Cu.	7	2	.
Eskdalemuir	1000.6	+3	SW	4	c	47	85	8	1500	St.Cu.	8	-	8	2	.
Tynemouth	1002.8	+2	SSW	2	c+	52	85	7	2500	St.Cu.	8	-	8	.	.
Blackrod Point	999.1	+2	S	4	c	50	75	8	.	Cu+Nb.	8	-	8	.	.
Donaghadee	997.9	+3	SW	2	bc	50	75	8	4000	St.Cu.	3	A.Cu.	7	.	.
Birr Castle	996.7	+2	SSE	2	c	48	85	8	4000	Nb.	3	A.St.	9	.	.
Holyhead	1001.2	+3	SSE	4	c	51	85	7	1500	St.	5	A.Cu.	9	1	.
Liverpool (Bidston)	1001.9	+2	SSE	3	o+	52	75	7	2500	Nb.	10	-	10	.	.
Chester (Sealand)	1001.7	+2	SE'S	3	c	53	75	7	4000	St.	7	A.St.	9	2	.
Harrogate	1002.3	+1	S	3	fc	51	92	3	450	St.	7	A.Cu.	9	.	.
Spurn Head	1003.9	+1	SW'S	3	c	50	85	6	4000	St.Cu.	4	Cu.Cu.	9	.	.
Birmingham (Edgbaston)	1003.2	+1	SSE	2	mno	51	92	4	800	St.	10	-	10	2	.
Cranwell	1003.6	-2	S	3	c	52	75	6	4000	St.Cu.	6	A.Cu.	9	1	.
Gorleston	1006.4	0	SSE	3	c	48	92	6	-	-	0	Cu.	8	.	.
Valentia (Cahiroiveen)	995.3	+2	SE	4	c r	49	85	8	1500	Nb.	6	A.St.	8	2	.
Roches Point	998.3	+2	SW	3	c	51	92	7	1500	Cu+Nb.	9	-	9	.	.
Pembroke (St. Ann's H.)	1000.0	+1	SW'S	3	c+	53	85	7	2500	St.Cu.	6	A.Cu.	10	.	.
Ross-on-Wye	1002.4	+1	SE	2	odd	52	97	4	800	Nb.	10	-	10	2	.
Loudfield	1003.3	0	SE'S	3	c-	50	92	7	4000	St.Cu.	8	Cu.St.	9	2	.
Winchester (Worthy Dn.)	1004.3	0	SSE	3	c	54	75	7	2500	St.	6	A.St.	9	1	.
St. Faraborough	1004.3	-1	SSE	3	bc	56	75	7	-	-	0	Cu.	7	1	.
London (Kew Obsy.)	1004.9	-1	SSE	3	bc	55	65	7	-	-	0	Cu.	7	1	.
Croydon	1005.2	-1	S	4	c	55	65	6	-	-	0	Cu.	8	2	.
Shoeburyness	1006.0	-1	SE	2	bc-	53	75	8	-	-	0	A.Cu.	6	.	.
Clacton-on-Sea															
Felixstowe															
Lympne	1006.8	-1	SSE	3	c	49	85	7	-	-	0	A.Cu.	8	1	.
Scilly (St. Mary's)	1004.4	0	SW	3	c	52	97	7	4000	St.Cu.	9	-	9	.	.
Falmouth (Pendennis)	1002.0	0	S'W	3	c r	52	92	7	2500	Nb.	7	A.St.	10	.	.
Plymouth (Mt. Batten)	1001.8	0	SSE	1	c r	53	97	6	220	Nb.	9	A.St.	10	2	.
Portland Bill	1002.2	0	S	4	c-	54	85	8	1500	St.Cu.	7	A.Cu.	8	.	.
Southampton (Calshot)	1004.8	-1	SE'S	3	bc-	54	85	7	2500	St.Cu.	1	Cu.	6	0	.
Ringmer															
Guernsey (St. Peter Port)	1006.5	-2	SSE	3	bc+	52	75	7	2500	Cu.	1	Cu.Cu.	7	.	.
	1004.2	-2	SSE	3	bc-	53	75	6	4000	St.Cu.	2	A.Cu.	4	.	.

Observations at 15h. G.M.T. 20th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	999.0	+3	S	4	c	49	85	7	1500	St.Cu.	4	A.St.	8	.
Stornoway	998.4	+4	SSW	6	bc	49	75	7	4000	Cu+Nb.	5	A.Cu.	7	.
Wick	996.7	+3	SSW	6	c	48	75	8	4000	St.Cu.	5	Cu.St.	8	6
Tiree	995.3	+3	SSW	6	c	49	85	8	2500	St.Cu.	8	A.St.	10	6
Nairn	996.6	.	SW'S	3	bc	47	75	8	2500	Cu.	5	-	5	.
Aberdeen	1000.7	+2	SSW	3	bc	47	85	6	-	-	0	A.Cu.	4	1
Malin Head	996.3	+4	S	5	b	47	92	8	5700	St.Cu.	2	-	2	3
Renfrew	1000.7	+2	N	1	c	46	85	7	2500	St.Cu.	9	-	9	.
Edinburgh (Inchkeith)	1001.6	+2	S	1	o	49	75	8	1500	St.	10	-	10	0
Leuchars	1001.3	+2	SSE	3	c	46	85	6	4000	St.Cu.	4	A.St.	10	.
Eskdalemuir	1002.5	+3	SSW	2	c	46	85	7	1500	St.Cu.	10	-	10	.
Tynemouth	1003.5	+1	S	2	o/f	50	92	6	1500	St.	10	-	10	2
Blackrod Point	999.3	+1	S	4	c	50	75	7	.	Cu+Nb.	10	-	10	6
Donaghadee	999.3	+2	SW	2	bc-	49	85	8	4000	St.Cu.	3	A.Cu.	6	1
Birr Castle	998.0	+2	S	1	bc	47	85	7	4000	St.Cu.	7	-	7	.
Holyhead	1001.9	+1	SSE	3	c	50	92	6	2500	St.	8	A.St.	10	0
Liverpool (Bidston)	1003.0	+1	SSE	3	o r o	49	92	7	2500	Nb.	10	-	10	.
Chester (Sealand)	1002.6	+1	SE'S	1	o r o	49	92	6	2500	Nb.	10	-	10	.
Harrogate	1001.1	+1	S	1	f f o	49	97	3	450	St.	10	-	10	.
Spurn Head	1001.8	0	S	3	c	47	92	6	4000	St.Cu.	10	-	10	2
Birmingham (Edgbaston)	1003.9	+1	SSE	2	c-	51	97	6	1500	Nb.	9	-	9	.
Cranwell	1005.1	+1	S'E	3	bc-	53	92	6	2500	St.Cu.	3	-	3	.
Gorleston	1007.0	+2	S'E	4	b-	47	85	6	-	-	0	-	0	4
Valentia (Cahiroiveen)	996.3	+1	SSE	4	c	50	85	8	1500	St.	6	A.St.	10	4
Roches Point	999.2	+1	SW	3	c	51	92	7	1500	Cu+Nb.	9	-	9	6
Pembroke (St. Ann's H.)	1000.4	+1	SSE	3	o r o	51	97	7	800	Nb.	10	-	10	3
Ross-on-Wye	1002.9	0	SE	3	o	52	92	5	800	St.	10	-	10	.
Loudfield	1004.0	+1	SE	3	b-	48	92	8	4000	St.Cu.	2	-	2	.
Winchester (Worthy Dn.)	1005.5	+2	SE	3	c	49	85	8	5700	St.Cu.	4	A.St.	9	.
St. Faraborough	1005.2	+1	SE	2	bc-	47	85	5	-	-	0	Cu.	3	.
London (Kew Obsy.)	1005.8	+2	SSE	1	b	46	85	5	-	-	0	-	0	.
Croydon	1006.0	+2	S	1	bc-	47	85	6	-	-	0	Cu.St.	3	.
Shoeburyness	1005.9	+1	ESE	1	b	43	97	7	-	-	0	Cu.	2	.
Clacton-on-Sea	1007.0	+1	SSE	3	bc	47	85	6	-	-	0	Cu.	4	3
Felixstowe	1007.3	+1	SSE	3	bc	47	85	6	-	-	0	Cu.	3	0
Lympne	1007.0	+1	SSE	3	b	48	75	6	-	-	0	Cu.	1	.
Scilly (St. Mary's)	999.9	-1	ESE	2	o r o	50	97	7	2500	Nb.	10	-	10	2
Falmouth (Pendennis)	1001.2	-1	S	3	c r o+	53	97	7	2500	Nb.	8	A.St.	10	1
Plymouth (Mt. Batten)	1001.7	0	SE	3	o r o	53	92	6	220	Nb.	10	-	10	2
Portland Bill	1002.4	0	SSE	5	bc-	53	75	7	2500	St.Cu.	3	-	3	5
Southampton (Calshot)	1005.3	0	ESE	4	c+	51	85	7	4000	St.Cu.	6	A.St.	10	0
Ringmer	1006.5	0	S	3	bc-	51	85	7	4000	Cu.	2	A.Cu.	4	2
Guernsey (St. Peter Port)	1004.2	0	SSE	3	bc	53	85	6	4000	St.Cu.	6	-	6	4

London Observations

	Height above M.S.L. in feet	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day °F.	Temperature. Min. Night °F.	Temperature. Min. on Grass °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Pastility as
Day 7h-15h., Kew & Croydon. 9h-18h., Kensington. 8h-21h., other stations.		24 HOURS ENDED 9h.						YESTERDAY.			TO-DAY.		
Kew	16	C	bc	bc n,o	56	44	33	-	Tr	4.1	*	*	5
Croydon	244	bc c2 o	c bc2 o	bc2 n,o	55	44	40	-	-	5.5	*	*	6
City (Bunhill Row)	149	c	c bc c	c bc n bc	58	39	26	-	Tr	4.8	72	88	6
Westminster (St. James' Pk.)	89	*	*	*	*	*	*	*	*	1.2	*	*	*
Regent's Pk. (Botanic Gdns).	27	*	*	*	55	45	35	-	-	3.2	81	87	*
Camden Square	138	*	*	*	*	*	*	*	*	2.6	*	*	*
Kensington Palace	110	c bc	bc	*	55	45	*	-	-	*	*	89	*
Hampstead Observatory	450	bc	bc b	*	56	45	33	-	-	*	(At 18h) .79	83	*
		*	*	*	55	43	33	Tr	-	2.8	*	90	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.0	20h 20th	0.3	1-2h 21st

Kew Observatory

Max.	Time.	Min.	Time.
0.4	18-21hr 20th	0.1	4h 21st

Pole Star Record at Greenwich Obsy.

Exposure from 20th 17h.8m. to 21st 6h.30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.30	12.39	94
δ Ursae Minoris	13.30	11.59	89

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.

1929. 22nd November

Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7.27	11.39	15.50
Greenwich	7.29	11.39	15.49
Wick	7.31	11.46	16.2
	8.17	11.46	16.1
Valentia	8.19	11.58	15.39
	8.42	11.58	15.37
	8.14	12.27	16.41
		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 taunder.
u ugly, threatening sky.e
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, wherever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; - = has decreased; + = has increased.

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

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

Sea Disturbance.

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

Telegraphic Code for Surface Visibility.

	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	11½ "
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.

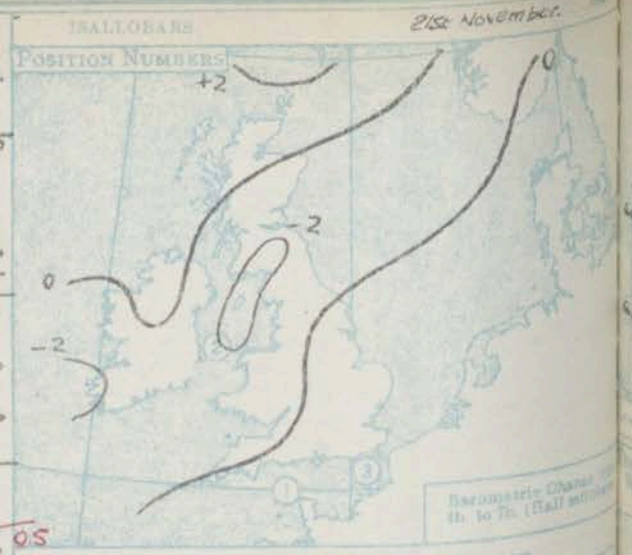
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h.	WEATHER. 13h.-18h.	WEATHER. 18h. to 1h.	WEATHER. 1h.-7h.	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on Grass	RAINFALL† Day, 7h.-18h. mm	RAINFALL† Day, 7h.-18h. began.	RAINFALL† Night, 18h.-7h. mm.	RAINFALL† Night, 18h.-7h. began.	SUN Hours.
Lerwick	c	c	cbc	bccm	51	48		–	–	–	–	0.0
Stornoway	pq	bapr bc	cRb	bcc	49	43		2	18.00	14	21.00	0.8
Wick	c	c	c	c	49	48		–	–	–	–	
Tiree	bc	bcc	bc	c	49	46	42	–	–	–	–	2.5
Nairn	bcc	cbcq	bcdc	bc	47	44		–	–	Tr	22.00	0.6
Aberdeen	bc	bcebcH	bcc	coirm	50	43	41	–	–	0.2	04.30	3.4
Malin Head	bbcca	cbcbc	bbcebcce	ce	48	44		–	–	–	–	0.3
Renfrew	cbcqc	c	c	com r	50	43	37	–	–	Tr	05.30	2.1
Edinburgh (Inchkeith)	bbc	bcco	o	orc	51	45	41	–	–	1	02.30	3.6
Leuchars	bccbc	bccm	cm	ccrir	50	43	39	–	–	1	03.30	3.7
Eskdalemuir	bcc	c	c	crrc	48	42	40	–	–	2	01.30	2.6
Tynemouth	cbc	coif	orm	o	53	47	42	–	–	–	–	
Blacksod Point	pc	pqc	pqo	pbc	51	45		5		6		
Donaghadee	bbc	bc	c	cir	51	46		–	–	2	03.30	
Birr Castle	bcrc	cbc	c	cr	49	43	34	0.4	18.00	Tr	03.30	0.0 0.5
Holyhead	cjpc	cm	pr or r	r r	53	47	46	–	–	3	21.00	0.8
Liverpool (Bidston)	cm	mor	opd	debc	52	45	43	1	15.30	0.6	21.00	0.4
Chester (Sealand)	cm	cmdo	oddm	cm	53	45	41	0.3	15.30	0.4	21.00	0.1
Harrogate	cf	coff	off	oFF	51	40	40	–	–	–	–	0.0
Spurn Head	bbc	cbcc	cbcc	cbcw	51	42		–	–	Tr	21.00	0.5
Birmingham (Edgbaston)	or m	odo	cbc	bcc	51	42	38	1	18.00	–	–	0.0
Cranwell	c	cbc	bcm fe	bcfebm	55	36	31	–	–	–	–	0.6
Gorleston	bcc	cbc	bbcm w	bcbW	52	43	3[illegible]	–	–	0.2	–	1.4
Valentia (Cahirciveen)	cirpci	cpc	cpc	cbc	51	48	42	2	18.00	0.1	21.00	0.8
Roches Point	bcc	c	cbcc	c	52	49		–	–	–	–	
Pembroke (St. Ann's H.)	bcc	crr	orrm	oddcm	54	50		1	14.30	14	21.00	0.0
Ross-on-Wye	rdm	dmom	omc	c	53	47	40	2	18.00	–	–	0.0
Leafield	c	c	bc	bcw	51	40	35	–	–	Tr	–	0.1
Winchester (Worthy Dn.)	oc	cbcc	c	cbcbw	54	43	32	–	–	0.1	–	0.7
S. Farnborough	cm	cbcm	bcm	bcbm	56	41	29	–	–	–	–	3.8
London (Kew Obsy.)	c	bc	bcmw	bmw	56	44	33	–	–	Tr	–	4.1
Croydon	bccz	cbcz	bcz mw	bcbinw	55	45 39		–	–	–	–	5.5
Shoeburyness	bc	bcb	bbc	bcb	55	41	34	–	–	–	–	3.5
Clacton-on-Sea	bcz	bcz	bcz	bczb	50	45	37	–	–	–	–	2.2
Felixstowe	c	cbcz	bczb	bw	50	43	41	–	–	–	–	2.5
Lympne	bccm	bcbz	bc m	bcbm	50	45	41 40	–	–	–	–	3.2
Scilly (St. Mary's)	c	cmor	orrc	c	53	45		2	14.00	3	21.00	0.0
Falmouth (Pendennis)	cr	crr	crm	crmo	53	53		1	11.00	2	21.00	0.0
Plymouth (Mt. Batten)	arrr	cmr	omrc	cr	53	52	51	3	18.00	0.1	21.00	0.0
Portland Bill	oc	cbc	cbc	bc	55	52		–	–	–	–	
Southampton (Calshot)	cmbcm	bcmc	bcw	bcwbw	54	47	45	–	–	–	–	3.1
Dungeness	bcbc	bbc	bc	bcbw	55	50		–	–	–	–	
Guernsey	cbc	bccc	cbcbc	bc	53	50	44	–	–	–	–	2.4

† For code see page 1

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



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	20h 10h	Cambria	SW	4	C+	52	53

GENERAL INFERENCE.

There is a low-pressure area south of Iceland. Secondary depressions coming from the South or Southwest will maintain unsettled conditions in our Western and Northern districts but mainly fair weather will be experienced in Eastern and South eastern districts of England. Temperature will be relatively high generally.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 21st November, 1929.

Districts.	Forecasts	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands	Wind southerly, moderate; mainly fair; perhaps slight ground frost and mist or fog locally inland tonight and early tomorrow; rather mild by day.	Unsettled in Ireland and Scotland; probably mainly fair in East and Southeast England.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind southerly, moderate or perhaps variable; cloudy; some rain; mild.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind southerly, moderate; cloudy; perhaps some rain later; rather mild.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland / R. N. W. Scotland) 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind southerly, moderate; mainly cloudy; some rain or showers; rather mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind south or southwest, moderate, perhaps freshening later; mainly cloudy; some rain or showers; rather mild.	

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

Pr. 140/935 m.4l. 2.6209. 14/00. 11/29.

SYNOPTIC CHART FOR 7h. Thursday, 21st NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

HIGH

994 992 990 988 986 984 982 980

35 32 Sleet +1

Barometer

15 36 O'cast +0

LOW

10 39 Cloudy +0

Steady

Barometric

41 Cloudy

39 Heavy Rain

Changes

Bar. Rising

21 46 Cloudy +7

Briskly

48 Cloudy

LOW

Barometric

49 Cloudy

10 48 Cloudy

5 48 Cloudy

21 46 Cloudy

Slight

47 Rain

44 Drizzle

10 45 Cloudy

5 47 O'cast

15 47 Fine

39 Fine

34 Mist

2 44 Rain

52 Cloudy

43 Fine

36 Fine

15 49 Cloudy

10 53 Drizzle

10 44 Cloudy

5 46 Fine

5 45 Fine

41 Fine

53 Fine

30 Mist

48 Cloudy

H.M. SHIP

50 Fine

41 Mist

2 998

56 Sea 54 O'cast

15 Rain

39 Fine

30 Fog

27 Thick Fog

LOW

28 Thick Fog

H.M. SHIP

56 Sea 57 Fine

45 Fine

HIGH

HIGH

52 Fine

59 Cloudy

54 Cloudy

43 Fine

1002 1004 1006 1008 1010 1012 1014 1016 1018

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 more than ½ clouded. ● overcast sky. ≡ rain falling. ∞ snow. ▲ hail. ≈ fog. ≋ mist. ℞ thunder. ⌇ is for thunderstorm.

SEA DISTURBANCE.

Calm. Very Rough.

BAROMETRIC TENDENCY. Barometric change from 7 a.m. to 7 p.m. in half millibars is entered against the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Thursday, 21st. November.....1929. No. 325....

Observations at 1h. G.M.T. 21st.

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	34	1000.2	+1	S	3	bc	49	88	7	1500	StCu	4	ACu	7
Stornoway	80	997.2	+2	SSW	5	b-	*	*	8	*	*	*	*	2
Wick	81	999.1	+3	SSW	5	c	49	85	8	2500	StCu	8	CiSt	10
Tiree	35	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	69	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	61	9984	~~+3~~ 0	S	4	c ⓦ	47	92	7	5700	~~Sc~~ StCu	3	CiSt	9
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	199	1002.7	0	S	2	0	~~49~~ 47	92	7	1500	St	10	-	10
Lonchars	59	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1003.8	0	S	2	0	49	97	6	1500	St	10	-	10
Blacksod Point ...	18	995.6	+1	S	4	C	50	75	7	*	CuNb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1001.7	-1	-	0	Cr$_o$	49	92	6	2500	Nb	9	ASt	10
Liverpool (Bidston) ...	180	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	30	1004.6	0	SW'S	3	C	43	97	6	1600	St	4	ACu	8
Birmingham (Edgbaston)	575	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	338	1005.0	0	SE'S	2	fbc+	39	97	2	-	-	0	CiSt	6
Gorleston	14	1007.0	0	S	1	bc	45	97	6	1500	St	3	Ci	4
Valentia (Cahirciveen)P	30	997.5	-1	S	2	b-	49	85	9	*	-	0	CCu	2
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	999.5	-1	S	2	ooo	53	97	5	450	St	10	-	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	257	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	46	*	*	*	*	*	*	*
Croydon	244	1005.9	-1	S'E	3	bc ⓓ	45	85	6	-	-	0	Ci	7
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1006.7	-1	SSE	3	bc	48	85	6	-	-	0	Ci	5
Scilly (St. Mary's) ...	163	998.9	0	NNW	3	c	50	97	7	4000	StCu	8	-	8
Falmouth (Pendennis)	200	1001.1	-1	S	4	Cr$_o$+	53	97	6	2500	Nb	7	ASt	10
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1002.4	-1	SSE	4	bc +	53	85	8	2500	StCu	2	AC	6
Southampton (Calshot)	10	1004.9	-1	SE'S	3	bc	51	85	8	-	-	0	Q	4
Dungeness	30	1006.2	-1	S	3	bc-	52	85	7	2500	StCu	2	CiCu	4
Guernsey (St. Peter Port)	173	1004.2	0	S	4	bc	52	85	7	-	-	0	CiSt	4

Observations at 7h. G.M.T. 21st.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form.	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain. 0-8
Lerwick	1001.2	+2	S	2	c|p	48	97	6	1500	CuNb	4	ASt	10	.2
Stornoway	997.0	+1	SSE	4	C	49	85	7	4000	CuNb	8	-	8	.4
Wick	1000.9	+1	S	3	c	48	85	8	2500	StCu	8	ASt	10	.4
Tiree	997.6	0	S	4	c	49	92	8	2500	StCu	1	ASt	10	.*
Nairn	999.5	*	-	0	bc+	46	85	8	2500	CuNb	7	-	7	.*
Aberdeen	1001.4	-1	S	2	or$_o$	47	97	4	1500	Nb	10	-	10	0
Malin Head	998.4	0	S	3	c	45	92	6	4000	StCu	3	CuCu	8	.1
Renfrew	1000.6	-1	E	2	od$_d$e	44	97	5	800	Nb	10	-	10	.*
Edinburgh (Inchkeith)	1002.1	-2	E	1	C	45	97	8	4000	StCu	5	ASt	9	.0
Lonchars	1001.2	-1	E	1	c/r	44	97	6	2500	StCu	4	ASt	10	.*
Eskdalemuir	1000.6	-3	NW	1	C	46	97	6	1500	StCu	10	-	10	.*
Tynemouth	1002.4	-1	S	2	O	47	97	6	800	St	10	-	10	.2
Blacksod Point ...	998.8	0	S	4	bc	47	85	8	*	CuNb	4	-	4	.5
Donaghadee	998.7	-1	S'W	2	or$_o$	47	92	7	1500	Nb	10	-	10	.1
Birr Castle	996.6	0	S	1	C 8/8	44	92	8	-	-	0	CuCu	8	.*
Holyhead	999.3	-2	SSE	4	C-	52	85	6	800	St	9	-	9	.*
Liverpool (Bidston) ...	1000.3	-1	SE	4	bc	46	92	7	1500	Nb	5	ASt	7	.*
Chester (Sealand) ...	1001.1	-1	SE	2	c ⓘ	45	92	6	1500	St	3	CiSt	8	.*
Harrogate	1003.5	0	SE	2	FFo	40	97	1	4150	St	10	-	10	.4
Spurn Head	1004.2	0	S'W	4	bc	43	97	6	1500	St	4	-	10	.*
Birmingham (Edgbaston)	1003.8	0	SSE	3	c+	44	97	6	2500	StCu	10	Ci	10	1
Cranwell	1004.4	0	S'E	3	fb-	37	97	4	-	-	0	-	0	.0
Gorleston	1006.8	0	S'W	2	b	46	92	6	-	-	0	-	0	.*
Valentia (Cahirciveen)P	994.4	-2	SSE	4	c+	49	85	8	2500	Cu	8	-	8	.*
Roches Point	998.2	-1	SW	2	C	50	85	7	4000	StCu	8	-	8	.*
Pembroke (St. Ann's H.)	997.9	-1	SSW	3	od$_o$	53	97	6	800	St	10	-	10	.*
Ross-on-Wye	1002.5	-1	SSE	3	C	49	85	7	1500	StCu	10	CiSt	23	.*
Leafield	1003.3	0	SE'S	4	b‖	42	97	7	5700	StCu	1	CiSt	23	.*
Winchester (Worthy Dn.)	1004.7	0	SE	2	b	44	92	7	-	-	0	-	0	.*
S. Farnborough ...	1004.4	+1	SE	2	b	43	97	6	-	-	0	-	0	.*
London (Kew Obsy.) ...	1005.4	0	SSE	2	b	45	92	6	-	-	0	-	0	.*
Croydon	1005.7	0	S'E	3	b	45	92	6	-	-	0	-	0	.*
Shoeburyness	1006.6	0	S	2	b	43	97	7	-	-	0	-	0	.2
Clacton-on-Sea ...	1006.6	0	SSE	3	b	45	92	7	2500	St	2	-	0	.*
Felixstowe	1006.2	0	SSE	3	b	47	92	7	-	-	0	-	0	.*
Lympne	1007.0	0	SE	3	b	46	85	6	-	-	0	-	0	.*
Scilly (St. Mary's) ...	999.3	0	NNW	2	c	48	92	8	4000	StCu	8	-	8	.2
Falmouth (Pendennis)	999.8	0	S'W	4	c	53	97	7	4000	StCu	8	-	10	.3
Plymouth (Mt. Batten)	1000.8	0	S	4	cr$_o$	53	92	7	800	Nb	10	-	10	.3
Portland Bill	1001.2	0	SSE	4	bc	53	92	8	2500	StCu	9	ASt	9	.4
Southampton (Calshot)	1004.4	+1	SE'S	2	b+	50	85	8	-	-	2	ASt	4	.1
Dungeness	1006.0	0	S	2	b+	51	92	7	-	-	0	AC	1	.0
Guernsey (St. Peter Port)	1003.9	+1	SSE	3	bc+	50	92	7	4000	StCu	4	AC	6	.*

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperatures. Min. 9h.-9h. to 9h. 21st. °F.	Temperatures. Max. 9h.-17h. 20th. °F.	Rainfall.† Night 17h.-9h. mm.	Rainfall.† Day 9h.-17h. mm.	Sunshine. Sunrise to Sunset, 21st. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	48	52	/	-	0.3
Douglas (I. o. M.) ...	co	od	46	51	2	Trace	2.4
Llandudno ...	c	coc	48	53	/	-	0.3
Colwyn Bay ...	cbcb	bcc	49	53	5	-	0.3
Rhyl	bc	o	(46)	53	2	-	0.2
Wallasey	c	cor$_o$	50	54	2	0.5	0.1
Southport	co	oro	49	52	/	0.5	0.0
Blackpool	o	o	48	52	5	-	0.0
Morecambe ...	c	c	46	52	6	-	0.0
Ilkley	c	c	50	53	/	-	0.0
Cleethorpes	c	o	46	52	0.1	-	0.8
Mablethorpe. ...	orbcm	bcm	45	52	Trace	-	2.8
Skegness	oc	cbc	46	51	0.3	-	2.7
Aberystwyth ...	rc	mor	49	53	4	/	0.0
Bath	c	cbc	53	54	0.3	-	0.0
Cheltenham ...	90	o	51	53	2	-	0.0
Leamington Spa ...	c	com	49	54	0.4	-	0.1
Lowestoft	bc	bc	46	51	-	-	2.5
Harwich & Dovercourt	bc	bc	45	50	-	-	2.8
Maldon	bc	bcb	45	52	-	-	1.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	or	rr	50	54	6	2	0.0
Bude	odpq	odd	49	53	4	5	0.0
St. Ives	dd	dd	50	53	10	2	0.0
Penzance	cdc	cr	51	54	4	1	0.0
Paignton	qrpw	ordpo	52	54	4	1	0.0
Torquay	rpo	odpwo	52	55	3	-	1.1
Jersey	bc	bc	47	54	-	-	0.7
Weymouth	ocbc	cb	52	55	0.3	-	0.1
Bournemouth ...	o	oc	50	54	-	-	0.1
Ventnor ...	cub	bbc	50	57	-	-	0.1
Portsmouth (S'thsea)	bcb	bm	51	56	~~1~~	-	0.0
Bognor Regis ...	cbc	bc	48	54	-	-	0.0
Littlehampton ...	bc	bc	50	54	-	-	0.0
Worthing	cbc	bc	51	55	-	-	0.2
Brighton	bcb	bc	50	54	-	-	0.0
Eastbourne	bc	bc	51	54	-	-	0.0
Hastings‖	bcbc	bcbbc	49	54	-	-	0.3
Folkestone	cbc	bc	46	53	-	-	0.1
Dover	bc	bc	47	52	-	-	0.8
Deal	cbc	bc	44	52	-	-	0.2
Tunbridge Wells ...	bc	bc	46	53	-	-	0.0
Ramsgate	bc	bc	46	52	-	-	0.0
Margate	bc	bc	46	53	-	-	0.0
Southend	cbc	bc	46	55	-	-	0.0

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

* Information not usually received.

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

‡ For code see page 1.

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

: See footnote page 1

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24837 FRIDAY, 22nd NOVEMBER, 1929.

Observations at 18h. G.M.T. 21st.

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun in last hr.
Lerwick	1001·5	-1	SE	1	drizzle	44	97	7	1500	Nb.	10	-	10	*
Stornoway	997·6	0	SSW	1	—	49	95	7	4000	St.Cu.	10	-	10	*
Wick	999·9	-1	S	2	drizzle	49	92	6	800	St.	6	As.	10	*
Tiree	997·2	-1	SSE	3	—	48	95	8	4000	St.Cu.	4	As.	9	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1000·1	-2	SE	3	mist	48	97	4	1500	Nb.	10	-	10	1
Malin Head	997·6	-1	SE	3	—	46	92	8	5700	St.Cu.	3	As.Cu.	8	*
Renfrew	999·8	0	SSE	2	rr	48	97	6	2500	Nb.	6	As.St.	10	2
Edinburgh (Inchkeith)	1000·1	-2	S	1	—	51	95	6	4500	Sc.	3	As.St.	10	*
Leuchars	999·7	-1	SW	2	—	50	95	6	800	St.	7	As.	9	2
Baldoyle	999·7	-2	S	4	—	47	95	6	1500	St.Cu.	8	C.St.	9	2
Aberdaunair	1000·1	-2	S	2	mist	45	97	4	800	St.	6	As.Cu.	8	*
Tynemouth	999·2	-2	S	3	—	45	95	8	*	Cu.Nb.	4	-	4	*
Blacknod Point	998·2	0	S	3	bc	50	75	8	*	Cu.	2	-	2	5
Donaghadee	997·5	-1	SW	1	0	47	92	6	1500	St.	10	-	10	*
Birr Castle	996·0	-1	S	1	—	50	85	7	4000	St.Cu.	8	-	8	*
Holyhead	999·4	0	S	4	rr	51	92	6	2500	Nb.	9	As.	10	2
Liverpool (Bidston)	1000·3	-1	SE	4	be	51	85	5	-	-	0	As.	6	*
Chester (Sealand)	1000·6	-2	SE'S	3	—	55	75	6	1500	St.	3	C.	8	2
[illegible]gate	1003·1	-1	SSE	2	fbc	46	92	3	1450	St.	3	-	3	*
[illegible]n Head	1004·1	0	SE	3	bc	47	92	6	2500	St.	4	-	4	*
Birmingham (Edgbaston)	1005·6	-1	SSE	3	—	49	85	5	2500	St.Cu.	9	-	9	1
Cranwell	1004·3	-1	SE'S	2	b	49	85	5	-	-	0	-	0	1
Gorleston	1006·5	0	SE	4	bc	49	92	6	-	-	0	C.Cu.	4	*
Valentia (Cahirciveen)	992·3	-3	SSE	5	bc	53	75	8	1500	Cu.	5	C.Cu.	6	2
Roches Point	996·4	-2	SW	3	—	52	92	8	2500	Cu.Nb.	8	-	8	*
Pembroke (St. Ann's H.)	998·6	0	S	2	cir	52	97	7	1500	Cu.Nb.	3	As.	10	*
Ross-on-Wye	1001·9	-1	SSE	3	0	51	95	6	1500	St.	10	-	10	2
Leafield	1002·9	-1	SE	4	rr	50	95	8	2500	St.Cu.	9	-	9	2
Winchester (Worthy Dn.)	1004·0	-1	SSE	3	b	53	95	7	1500	St.Cu.	9	-	9	1
S. Feinborough	1004·4	-1	SSE	4	—	53	95	7	1500	St.Cu.	9	-	9	1
London (Kew Obsy.)	1004·9	-1	SE	3	bc	52	95	7	1500	St.	4	As.Cu.	5	1
Croydon	1004·9	-1	SSE	3	b	54	75	6	1500	Cu.	2	-	2	1
Shoeburyness	1005·7	-1	SW	4	b	54	75	6	-	-	0	As.Cu.	1	2
Clacton-on-Sea	1006·1	-1	SSE	3	b	53	95	8	-	-	0	-	0	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1007·1	-1	SE'S	4	b	51	95	8	-	-	0	Cu.	1	0
Scilly (St. Mary's)	1006·5	-1	SE	4	b	52	75	6	-	-	0	-	0	2
Falmouth (Pendennis)	999·3	-1	S	3	bc	51	92	8	4000	St.Cu.	7	-	7	*
Plymouth (Mt. Batten)	1000·2	+1	SSE	4	cir	53	97	6	2500	Nb.	7	As.St.	10	*
Mount Bill	1000·6	-1	SSE	4	cir	53	92	6	800	Nb.	9	As.St.	10	2
Southampton (Calshot)	1001·2	0	S	5	bc	53	95	8	2500	St.Cu.	6	As.Cu.	7	*
Dungeness	1004·6	-1	SSE	3	b	54	75	7	2500	Cu.	1	Cu.	2	0
Guernsey (St. Peter Port)	1006·2	0	S	3	b	53	75	8	-	-	0	C.St.	2	*
	1003·6	-2	SSE	3	bc	54	95	6	-	-	0	Cu.Cu.	6	*

Observations at 18h. G.M.T. 21st.

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun.
Lerwick	1000·5	-2	SE	3	cir	48	97	7	1500	Cu.Nb.	5	As.	10	*
Stornoway	997·6	0	S	1	—	45	92	7	4000	St.Cu.	10	-	10	*
Wick	998·9	0	S	3	rr	48	97	6	1500	Nb.	10	-	10	1
Tiree	999·1	+1	SE	3	b-	45	97	8	4000	St.Cu.	1	As.	1	1
Nairn	998·6	-	-	0	—	44	92	6	800	Nb.	10	-	10	*
Aberdeen	1001·3	+2	S	2	cir	48	92	4	1500	Nb.	8	As.	10	0
Malin Head	997·2	0	SE	3	b	45	92	8	-	-	0	-	0	2
Renfrew	1000·1	+1	E	2	—	49	92	5	2500	St.	10	-	10	*
Edinburgh (Inchkeith)	1001·7	+1	SSE	2	drizzle	50	92	6	800	Nb.	10	-	10	*
Leuchars	1000·7	+2	-	0	drizzle	47	92	6	800	St.	10	-	10	*
Baldoyle	1000·7	+1	SSW	2	rr	47	97	5	800	Nb.	10	-	10	*
Aberdaunair	1001·3	-1	SSW	2	fbc	47	92	4	800	St.	5	-	5	2
Tynemouth	999·6	-1	SE	3	b	48	85	8	*	Cu.	2	-	2	5
Blacknod Point	997·5	0	-	0	be	46	97	7	4000	St.Cu.	7	-	7	0
Donaghadee	996·4	0	SE	1	—	46	85	7	-	-	0	As.Cu.	1	*
Birr Castle	999·3	0	SE	1	drizzle	50	97	6	2500	Nb.	10	-	10	0
Holyhead	1000·1	0	ESE	4	cir	50	85	6	2500	Nb.	9	-	9	*
Liverpool (Bidston)	1000·6	0	SE	4	—	50	85	6	1500	St.	9	-	9	*
Chester (Sealand)	1003·2	0	SSE	1	0	46	97	5	2500	St.	10	-	10	*
[illegible]gate	1003·9	0	S	3	be	46	92	6	-	-	0	As.St.	3	2
[illegible]n Head	1003·0	0	SSE	3	—	50	92	5	2500	St.Cu.	10	-	10	*
Birmingham (Edgbaston)	1004·4	+2	SE'S	2	fb	42	97	3	4000	St.Cu.	2	-	2	*
Cranwell	1005·3	-1	S	4	b	47	97	6	-	-	0	-	0	1
Gorleston	1006·6	+1	S	2	b	46	92	8	-	-	0	C.St.	1	*
Valentia (Cahirciveen)	998·8	-2	SE'S	5	—	52	75	8	1500	St.	7	As.St.	9	3
Roches Point	996·6	-2	SE	4	—	51	92	8	1500	Cu.Nb.	8	-	8	6
Pembroke (St. Ann's H.)	996·9	-2	SE	4	rr	52	97	6	800	Nb.	8	As.St.	10	2
Ross-on-Wye	1001·7	0	SSE	2	0	51	95	5	800	St.	10	-	10	*
Leafield	1003·4	+1	SE'S	3	bc	46	97	8	4000	St.Cu.	3	-	3	*
Winchester (Worthy Dn.)	1004·2	0	SSE	3	—	51	95	8	5700	St.Cu.	10	-	10	*
S. Feinborough	1004·5	+1	SE	2	b	48	85	6	-	-	0	As.Cu.	1	*
London (Kew Obsy.)	1004·6	+1	SE	2	b	49	85	6	-	-	0	Cu.	1	*
Croydon	1005·3	+2	SE	2	b-	49	85	6	-	-	0	Cu.	1	*
Shoeburyness	1005·3	+1	SE	4	bc	50	85	6	-	-	0	Cu.	5	*
Clacton-on-Sea	1006·6	+1	S	2	b	46	92	8	-	-	0	C.St.	1	*
Felixstowe	1006·6	+1	SSE	3	bc	49	85	7	-	-	0	As.Cu.	3	2
Lympne	1007·3	+1	SSE	3	b	49	97	7	-	-	0	-	0	0
Scilly (St. Mary's)	1006·3	+1	SE	4	b	50	85	6	-	-	0	Cu.	1	*
Falmouth (Pendennis)	996·7	-2	SSE	4	b	50	92	8	4000	Cu.	2	-	2	1
Plymouth (Mt. Batten)	998·7	0	S	4	cir	53	97	6	4000	St.Cu.	10	-	10	1
Mount Bill	999·3	-1	SSE	5	—	54	85	7	800	Nb.	10	-	10	1
Southampton (Calshot)	1001·0	-1	SE	5	bc	55	85	8	2500	St.Cu.	7	-	7	2
Dungeness	1004·2	0	SE'S	4	—	53	75	6	2500	St.Cu.	8	-	8	0
Guernsey (St. Peter Port)	1005·9	0	S	3	b-	52	92	7	-	-	0	C.Cu.	1	4
	1003·0	0	SE	4	—	55	85	7	2500	St.Cu.	10	-	10	5

LONDON OBSERVATIONS.

Day 7h.-18h., Kew & Croydon.
21-18h., Kensington.
22-7h., other stations.

	Height above M.S.L. in Feet	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm. Day.	Rainfall. mm. Night.	Sunshine to Sunset. hrs.	Humidity. 18h. G.M.T. %	Humidity. 8h. G.M.T. %	Visibility
		Hours ended 8h.			Yesterday.			Yesterday.		Yesterday.	Yesterday.	To-day.	To-day.
Kew	18	bm w	cz bm	bcm	55	49	42	-	tr	5·8	*	*	6
Croydon	244	bm bdz	b bcz	bz bcc	55	49	43	-	-	6·6	*	*	6
Greenwich (Royal Obsy.)	148	b	bcb	bcw	55	46	34	-	tr	6·6	73	75	6
City (Sunhill Row)	89	*	*	*	*	*	*	*	*	3·1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	54	51	40	-	-	5·3	76	80	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	4·5	*	*	*
Camden Square	110	b	bbc	*	55	46	*	-	-	*	*	81	*
Kensington Palace	80	bc	bc	*	56	49	37	-	tr	*	(At 18h.) 73	73	*
Hampstead Observatory	450	*	*	*	54	47	29	-	-	4·8	*	85	-

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

22nd & 23rd NOVEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·29	11·35	15·49
	7·31	11·39	15·48
Greenwich	7·31	11·46	16·1
	7·33	11·44	16·0
Wick	8·19	11·58	15·37
	8·21	11·59	15·36
Valentia	8·14	12·27	16·40
	8·15	12·27	16·39

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 HR. ended 7h. G.M.T. 22nd

South Kensington

Max.	Time.	Min.	Time.
1·3	21st 21h	0·3	22nd 3h

Kew Observatory

Max.	Time.	Min.	Time.
0·3	21st 18h	0·1	22nd 1h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 21st 17 h. 0 m. to 22nd 6 h. 32 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris & Ursae Minoris	13 30	8·47	63
	13 30	6·14	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=Sleeting to-day in 18h. 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).

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 tornado.
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, wherever possible, the general character of the weather.
| "solidus" divides actual existing weather from preceding conditions, thus:—be/r = fair weather after rain; - = has decreased; + = has increased.

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.

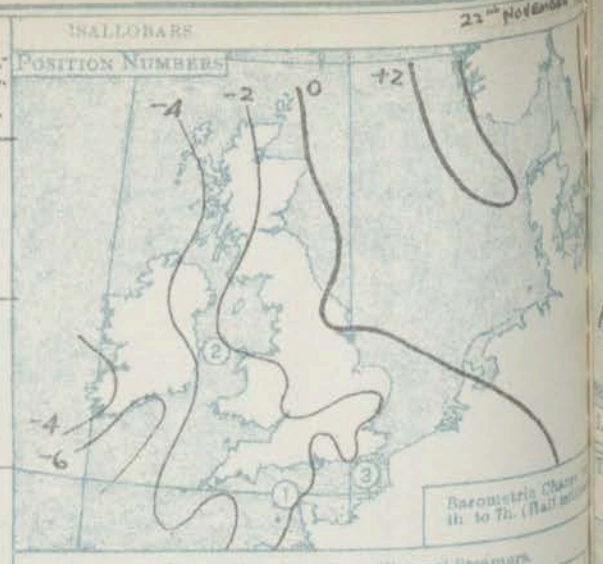
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 21st	WEATHER. 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	cor$_c$ r$_o$	or$_o$r$_o$c	cir$_o$m$_o$	oir$_o$	49	48	*	5	9.00	1	2100	0.0
Stornoway	c	c	b-bc	bcc	49	36	*	-	-	-	-	0.0
Wick	cm$_o$d$_o$	r-d	wmr$_o$c	comm	49	47	*	4	9.00	2	2100	*
Tiree	c	cpc	b	ir	49	45	40	-	-	1	2.30	0.0
Nairn	bccr	orr	rc	c	46	41	*	4	11.00	02	2100	0.0
Aberdeen	or$_o$fcom	omcmr$_o$	m om$_o$	om$_o$ir$_o$	49	48	44	01	8.00	Tr	6.30	0.0
Malin Head	ca	cbcba	bbcce	cc	47	43	*	-	-	-	-	1.8
Renfrew	orrf	rrcom$_o$	orr$_o$m$_o$	cp$_o$m$_o$	49	47	45	9	8.00	1	2100	0.0
Edinburgh (Inchkeith)	cm$_o$	coir$_o$	or$_o$r$_o$	om$_o$	53	46	43	1	11.30	1	2100	0.0
Leuchars	cir$_o$omcm$_o$	cm$_o$om$_o$	cir$_o$cr$_o$	cm$_o$	50	44	40	01	8.00	1	2100	0.0
Eskdalemuir	cm$_o$	cidcir	crrir$_o$c	c	47	46	43	5	11.30	3	2100	0.0
Tynemouth	cmm	cbcm$_o$	bcmmo	oc	47	46	40	-	-	-	-	*
Blacksod Point ...	pbc	bcb	pqvc	c	50	49	*	01		Tr		*
Donaghadee	cir$_o$c	ocbc	cp$_o$r$_o$	qpr$_o$c	48	44	*	04	8.00	1	2200	*
Birr Castle	bc	cbcb	bbc	bccr$_o$	51	44	34	-	-	Tr	6.30	4.8
Holyhead	cm$_o$ir	ror$_o$	ir$_o$c	prc	52	50	48	6	9.00	04	2100	0.0
Liverpool (Bidston) ...	bcm$_o$	bcm$_o$	r$_o$cbc	bcm$_o$	51	48	46	11	11.30	Tr	2100	0.6
Chester (Sealand) ...	cm$_o$	cm$_o$	cm$_o$	cbc	55	50	45	-	-	-	-	0.8
Harrogate	acbcff	fbcco	oc	c	47	42	39	-	-	-	-	0.0
Spurn Head	bc	bc	bccw	cw	46	43	*	-	-	Tr	-	6.7
Birmingham (Edgbaston)	c	c	cbc	bcc	50	47	45	-	-	-	-	0.1
Cranwell	bfbm	bm$_o$	bfcm$_o$	cm$_o$	49	41	36	-	-	-	-	5.3
Gorleston	bwbc	bcbw	bw	bbcw	51	45	38	11	-	Tr	-	6.7
Valentia (Cahirciveen)	cpbc	bcc	c cr	orrc	53	50	46	1	9.00	9	2200	3.3
Roches Point	c	c	cbcc	cirbc	55	50	*	-	-	1	4.30	*
Pembroke (St. Ann's H.)	cr$_o$dd	cirm$_o$	cr$_o$	orbcc	54	52	*	9	9.00	3	2100	0.0
Ross-on-Wye	co	co	om$_o$co	c	52	51	48	-	-	-	-	0.0
Leafield	bc	cbc	cbcc	c	51	45	43	01	-	-	-	2.9
Winchester (Worthy Dn.)	bmbm$_o$	cbcc	c	cpr$_o$c	53	50	47	-	-	01	2.30	5.1
S. Farnborough ...	bcm$_o$	bcb	bwc	cp$_o$bc	53	48	42	-	-	Tr	4.30	5.7
London (Kew Obsy.) ...	bm$_o$w	cr$_o$bm$_o$	bcm$_o$	bcm$_o$	55	49	42	-	-	Tr	-	5.8
Croydon	bm$_o$bcbz$_o$	b$_o$cbcz$_o$	bcz$_o$m$_o$	bcoocm$_o$	55	49 50	43	-	-	-	-	6.6
Shoeburyness	b	b	bbc	cp$_o$	54	44	40	-	-	Tr	4.30	7.1
Clacton-on-Sea ...	bbc	bc	bce	bcc	51	48	43	-	-	-	-	6.4
Felixstowe	b	bbc	bbc	bccw	51	47	43	-	-	Tr	-	6.9
Lympne	bm$_o$	bbcz$_o$bm$_o$	bbccwm$_o$	c cr$_o$m$_o$	52	49	44	-	-	01	5.30	7.1
Scilly (St. Mary's) ...	cbc	bcb	bbcc	circ	53	48	*	-	-	2	3.30	1.5
Falmouth (Pendennis)	corm$_o$	crm$_o$d$_o$	crq	bccrrq	53	50	*	10	8.00	5	2100	0.0
Plymouth (Mt. Batten)	cir$_o$m$_o$	cor$_o$m$_o$	cr$_o$q	cr$_o$q	55	53	52	03	8.00	04	2200	0.0
Portland Bill	bcc	c	bc	bcc	55	53	*	-	-	-	-	
Southampton (Calshot)	bcbc	bbccm$_o$	cbbcc	cbc	54	52	49	-	-	-	-	6.8
Dungeness	b	bbc	bbcc	ccr$_o$c	54	50	*	-	-	01	4.30	*
Guernsey	bc	bcco	ccco	ccco	55	53	48	-	-	-	-	



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force	Weather.	Temp. Air	Temp. Sea
2	21st 10h	Cambria	SSE.	3	RR	50	53
1	" 12h	St Helier	S	5	bc-	55	56
1	22nd 2h	Dieppe	S	3	c+	53	52

GENERAL INFERENCE.

A deep depression off South Ireland will probably follow a northerly track, giving rise first to strong southerly winds along our west and southwest coasts. Weather will be unsettled in the West and North, but probably mainly fair in the Southeast. Temperature will continue to be rather high in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 22nd. November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southeast or south, moderate or fresh; mainly fair; mild.	Unsettled in the West and North, uncertain, but probably with bright periods in the East and Southeast England.
4. W. Midlands 5. S.W. England ▼ 6. South Wales ▼ 7. North Wales	Wind southeast or south, fresh, or strong locally, probably veering later; mainly cloudy; some rain; mild.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind southeast or south, moderate or fresh; mainly cloudy; perhaps some rain; mild.	
12. S.W. Scotland & Isle of Man 13. A W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind southeast or south, moderate or fresh; mainly cloudy; some rain at times; rather mild.	▼ South Cone hoisted at 19h. 10m. G.M.T. yesterday.
17. N.W. Ireland ▼ 18. N.E. Ireland 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	Wind southeast or south, fresh, or strong locally, probably veering; cloudy, some rain or showers; moderate or rather high temperature.	

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

† For code see page 1

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

SYNOPTIC CHART FOR 7h. FRIDAY, 22ND NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

Lower Cloud

TEMPERATURE, WEATHER, SEA.

Barometer Falling

Barometric Changes Slight

Barometer Rising

Barometric Changes Slight

Generally Falling

LOW

HIGH

1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020

998 996 994 992 990 988 986 984 982 980 978 976 974 972

20° 15° 5°E 60° 65°

43 Cloudy

28 O'cast +4

23 Fine +5

24 Fine +3

41 Cloudy +0

43 Cloudy +1

49 Rain

46 Fine

30 O'cast

45 Fine

47 Cloudy

48 O'cast

49 Rain

48 Cloudy

45 Cloudy

51 Cloudy

48 Cloudy

34 Mist

50 Cloudy

50 Rain

53 Cloudy

47 Cloudy

32 Fog

39 Fine

51 Cloudy

49 Cloudy

47 Fine

54 Cloudy

52 Fine

46 Fine

52 Fine

54 Cloudy

26 Fog

1016

53 Fine

52 Mist

54 Cloudy

50 Cloudy

34 Cloudy

27 Thick Fog

54 Cloudy

30 Fog

52 Cloudy

50 Fine

57 Cloudy

55 Cloudy

CENTRIFUGAL 34 21 49 55 Rain

CENTRIPETAL 50 27 Sea 52 Fine

EXPLANATION.

BAROMETER. Isobars are drawn for intervals of two millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS.

○ clear sky. ◔ sky less than ½ clouded. ◑ sky ½ to ¾ clouded. ◕ sky more than ¾ clouded. ● overcast sky. ▲ rain falling. ✱ snow. ≡ fog. ≈ mist. ϟ thunder. ϟ̈ thunderstorm.

SEA DISTURBANCE. Rough. Very Rough.

TO ICELAND barometric change from 1h. to 7h. in half millibars is entered beneath the word for weather.

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

M.O. Form 2370

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. FRIDAY 22ND NOVEMBER 1929. No. 326.

Observations at 1h. G.M.T. 22nd

STATIONS.	Height Above M.S.L. in feet	Barom. at M.S.L. mn.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Larwick	54	1001·6	+1	S	2	cr₀	49	92	7	1500	C-Nb	5	Ast	10
Stornoway	30	998·8	0	-	0	b	*	*	8	*	*	*	*	0
Wick	92	999·7	+1	SSW	3	c	49	97	7	1500	St	5	C-St	8
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	65	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	87	*	*	-	*	*	*	*	*	*	*	*	*	*
Malin Head	83	994·5	-3	SE	2	c+	47	97	7	4000	St-Cu	3	A-Cu	8
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1000·5	-1	SE	2	o	48	92	7	800	St	10	-	10
Lenchars	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	706	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1002·2	0	S	2	o	48	92	6	1500	Nb	10	-	10
Blacksod Point ...	18	999·9	-2	S'E	5	c	47	85	7	*	C-Nb	8	-	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	996·7	-3	SE	5	c	53	85	7	2500	St-Cu	9	-	9
Liverpool (Bidston) ...	169	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	1003·2	-1	S	A	c	45	97	6	4000	St-Cu	8	-	8
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	238	1003·3	-1	SSE	A	c/m	43	97	5	-	-	0	A-St	8
Gorleston	14	1006·4	-1	S'E	3	b	47	97	6	-	-	0	C-u	2
Valentia (Cahirciveen)	30	984·3	-6	SE	6	o-RR	50	97	8	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	993·5	-1	SE	5	o/PR	53	97	6	1500	Nb	10	-	10
Ross-on-Wye	222	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dal.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	52	*	*	*	*	*	*	*
Croydon	244	1005·8	0	SE	3	bc-	50	85	6	-	-	0	A-Cu	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1005·6	-1	SE	3	c+	51	85	6	-	-	0	A-Cu	8
Scilly (St. Mary's) ...	165	990·2	-3	SSE	7	c	49	85	8	4000	Cu	6	C-Cu	8
Falmouth (Pendennis)	200	995·3	-4	S	6	bc-	51	92	7	4000	St-Cu	8	-	8
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	998·7	-2	SSE	5	bc-	55	85	8	2500	St-Cu	2	A-St	4
Southampton (Calshot)	10	1002·5	-2	SE'S	5	c+	53	85	7	2500	St-Cu	7	A-St	10
Dungeness	20	1005·6	-2	S	3	c+	53	85	7	-	-	0	A-Cu	8
Guernsey (St. Peter Port)	173	1001·0	-2	SSE	3	c+	54	85	6	2500	St-Cu	10	-	10

Observations at 7h. 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 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sun 0-6
Larwick	1002·2	+1	SE	3	or₀	49	92	7	1500	Nb	10	-	10	0
Stornoway	995·4	-3	-	0	c	47	92	7	2500	St-Cu	9	-	9	2
Wick	999·2	-1	SSW	4	[illegible]	48	97	54	800	St	10	-	10	3
Tiree	993·0	-3	SE	5	cr₀	50	92	6	2500	St	9	A-St	9	4
Nairn	997·2	*	-	0	c	45	85	6	1500	St	8	-	8	0
Aberdeen	1000·8	0	SSE	3	or₀	49	92	6	1500	Nb	10	-	10	0
Malin Head	990·1	-3	SSE	5	c	51	97	7	2500	St-Cu	3	A-Cu	8	4
Renfrew	997·3	-2	SE	3	c/r	49	85	5	4000	St-Cu	10	-	10	1
Edinburgh (Inchkeith)	999·2	-1	SE	3	o	48	92	7	800	St	10	-	10	0
Lenchars	999·4	0	E	3	c	47	92	5	1500	St	8	A-St	8	0
Eskdalemuir	998·3	-1	SSE	3	c	48	85	6	2500	St-Cu	6	A-Cu	8	1
Tynemouth	1001·0	-1	S	2	c	48	92	6	1500	Nb	8	-	8	0
Blacksod Point ...	984·6	-5	SE	5	c	50	75	8	*	St-Cu	8	-	8	6
Donaghadee	992·6	-2	S'E	6	c	52	85	7	4000	St-Cu	8	-	10	3
Birr Castle	985·7	-5	SE	4	or₀	50	85	7	2500	St	10	-	8	4
Holyhead	994·4	-2	SE	4	c	53	85	7	2500	St-Cu	8	-	9	0
Liverpool (Bidston) ...	996·6	-1	ESE	4	c+	48	85	6	2500	St	9	Ci	9	0
Chester (Sealand) ...	997·0	-2	SE	3	bc	50	85	8	1500	St	5	Ci	6	0
Harrogate	1001·2	0	SE	3	c	43	97	5	2500	St	9	-	9	0
Spurn Head	1002·0	0	SSE	4	c	47	97	7	5700	St-Cu	6	Ci-Cu	9	0
Birmingham (Edgbaston)	999·7	-1	SE	3	c	49	92	7	800	St	7	A-St	10	0
Cranwell	1002·0	-1	SE'S	4	c+	45	92	5	4000	St-Cu	9	-	9	1
Gorleston	1005·4	-1	S'E	4	bc	47	97	6	4000	St-Cu	5	-	8	1
Valentia (Cahirciveen)	977·7	-3	SSE	5	c	51	85	8	2500	Cu	8	-	8	3
Roches Point	983·7	-6	SE	6	bc	51	92	7	1500	Cu-Nb	4	A-St	10	4
Pembroke (St. Ann's H.)	990·1	-3	SE	5	c	54	92	8	1500	Cu-Nb	4	-	10	0
Ross-on-Wye	997·3	-2	SE	4	c	52	85	7	2500	St-Cu	10	-	8	0
Leafield	998·7	-2	SE'E	4	c	48	92	8	4000	St-Cu	8	-	8	0
Winchester (Worthy Dal.)	999·9	-2	SSE	5	bc-	52	85	8	4000	St-Cu	6	-	5	0
S. Farnborough ...	1001·0	-1	SSE	3	bc	51	85	7	1500	St	1	A-Cu	7	0
London (Kew Obsy.) ...	1001·8	-2	SE'S	4	bc	52	85	5	2500	St-Cu	4	Cu-St	7	0
Croydon	1002·4	-3	S'E	4	bc	52	85	6	2500	St-Cu	4	Cu-St	7	0
Shoeburyness	1003·9	0	SE'S	4	c	51	85	8	1500	St-Cu	9	-	9	3
Clacton-on-Sea ...	1004·3	-1	SE	4	c	50	85	7	5700	St-Cu	8	-	9	1
Felixstowe	1004·9	-2	SE	4	c	49	92	7	2500	St	4	A-St	9	0
Lympne	1004·2	0	SE	5	cr₀	51	85	6	2500	Nb	8	A-St	10	0
Scilly (St. Mary's) ...	987·2	-2	S'E	7	bc	51	92	8	4000	Cu	5	-	7	6
Falmouth (Pendennis)	991·3	-4	S	7	cr	52	85	7	2500	St-Cu	6	A-St	10	5
Plymouth (Mt. Batten)	993·6	-3	SE	6	cr₀	53	85	7	800	Nb	8	A-St	10	5
Portland Bill	996·3	-3	SE	7	c+	54	85	8	1500	St-Cu	8	-	8	6
Southampton (Calshot)	1000·1	-3	SE'S	6	bc-	53	85	7	2500	St-Cu	6	-	8	6
Dungeness	1003·7	-3	SSE	6	c/r	54	92	8	2500	St-Cu	10	-	10	6
Guernsey (St. Peter Port)	997·4	-3	S	6	bc	53	85	7	2500	St-Cu	6	-	8	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21ST NOVEMBER

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 20th to 9h. 21st °F.	Temperature. Max. 9h. 17th. to 21st °F.	Rainfall† Night 17h.-9h. 20th-21st mm.	Rainfall† Day 9h.-17h. 20th mm.	Sunshine. Sunrise to Sunset 21st hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	c	47	50	-	-	3·2
Douglas (I. o. M.) ...	drr	drr	45	51	1	10	0·0
Llandudno ...	c	cr	48	56	5	0·3	0·0
Colwyn Bay ...	c-bc-c	c-o-p-o	47	55	3	0·3	0·4
Rhyl	c	c	48	55	2	-	0·2
Wallasey ...	c-bc	bc-c-bc	46	53	1	-	0·2
Southport ...	c	c-o	46	53	2	-	0·1
Blackpool ...	c	c	46	52	3	-	0·0
Morecambe ...	c	c	46	53	5	-	0·0
Ilkley	om	go	41	50	-	-	0·0
Claethorpes ...	b	b	36	51	0·1	-	6·3
Mablethorpe. ...	b-m₀	b-m₀	39	51	-	-	6·7
Skegness	bw	b	43	50	Trace	-	6·2
Aberystwyth ...	rc	c	52	57	6	-	0·1
Bath	c	c	46	53	-	-	0·0
Cheltenham ...	c	o	43	54	-	-	0·0
Leamington Spa ...	c-bc	b-m	39	53	-	-	1·6
Lowestoft	b	b	44	52	-	-	7·0
Harwich & Dovercourt	b	bc	43	51	Trace	-	6·9
Maldon	b	b	40	54	-	-	6·0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	o	o-d-o	51	55	0·4	0·1	0·0
Bude	d-o-c	d-o-c	50	57	2	3	0·0
St. Ives	p	p	50	53	6	1	0·0
Penzance	or₀c	c-i-r-d	51	54	6	0·3	0·1
Paignton	o-z-w	o-c-o-p₀	50	54	-	Trace	0·0
Torquay	o-p	o-p₀	52	56	-	-	0·0
Jersey	bc	c	47	55	-	-	0·1
Weymouth	c	c	52	55	-	-	0·2
Bournemouth ...	c-bc	c-o	49	55	-	-	0·2
Ventnor ...	b-z	b-c-u	48	56	-	-	0·4
Portsmouth (S'thsea)	b	b-bc	48	56	-	-	0·0
Bognor Regis ...	b	b	49	54	-	-	0·2
Littlehampton ...	bc	bc	49	54	-	-	0·3
Worthing	b	b-bc	50	56	-	-	0·3
Brighton	b-c-b	b-bc	50	54	-	-	0·2
Eastbourne	b	b	49	54	Trace	-	0·2
Hastings	b-bc-b	b	49	55	0·2	-	0·7
Folkestone	w-b	b	48	55	-	-	0·3
Dover	b	b	49	55	-	-	0·9
Deal	b	b	46	54	-	-	0·4
Tunbridge Wells ...	b	b-bc	44	54	Trace	-	0·9
Ramsgate	b	b-bc	48	54	-	-	0·9
Margate	bc	bc	44	53	-	-	0·9
Southend	b	b	44	54	Trace	-	0·9

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. from an auxiliary station.

‡ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‖ For code see page 1. ‡ See footnote ‡ on page 1.

§ 17h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24838 Saturday, 23rd November 1929.

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1002.1	-2	SE	4	c	49	92	7	1500	St.Cu.	5	A.Cu.	5	•
Stornoway	992.6	-3	SE	3	bc-	51	85	7	4000	Cu.Nb.	5	A.Cu.	7	•
Wick	9950	-2	S	4	0	49	97	6	1500	St.	10	-	10	7
Tiree	9947	-4	SE's	6	c	51	92	6	2500	St.Cu.	7	Ci.Cu.	8	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	995.5	-3	SSE	4	bc/0	50	92	6	800	Nb.	3	A.Cu.	6	1
Malin Head	987.2	-2	SE.	6	c	52	97	6	2500	St.Cu.	4	A.Cu.	9	•
Renfrew	994.7	-4	ESE	4	c	53	75	5	5700	St.Cu.	9	-	9	2
Edinburgh (Inchkeith)	997.1	-2	SE	3	c	51	85	6	800	St.	2	A.Cu.	9	•
Lenchars	997.4	-3	E's	3	c	49	92	6	800	St.	8	A.Cu.	9	2
Eskdalemuir	994.9	-5	SE	4	bc	50	75	6	2500	St.Cu.	5	-	5	2
Tynemouth	995.1	-3	SSE	3	c/jp	49	92	6	1500	Nb	8	-	8	•
Blacksod Point	980.0	-2	ESE	5	c+	52	85	8	•	Cu.	9	-	9	•
Dunaghadee	989.4	-3	SE	6	c	53	85	7	4000	St.Cu.	8	-	8	•
Birr Castle	987.7	-4	S	5	bc/p$_o$	53	85	6	2500	Cu.Nb.	7	-	7	•
Holyhead	991.2	-5	SE	5	c/r$_o$	52	85	7	2500	Nb.	5	A.St.	10	2
Liverpool (Bidston)	993.2	-5	SE	5	c	53	75	7	1500	Nb.	8	A.Cu.	9	•
Chester (Sealand)	993.4	-3	SE's	6	cr$_o$	54	75	7	1500	St.	7	Ci.	9	1
Harrogate	998.0	-3	SE	3	c	50	92	5	2500	Nb.	9	-	9	•
Spurn Head	999.3	-2	SE	5	c	49	92	7	4000	Cu.	9	-	9	•
Birmingham (Edgbaston)	996.8	-4	SSE	5	ci.	53	75	7	1500	Nb	9	-	9	2
Cranwell	999.1	-3	SE's	5	c+	54	75	8	2500	Cu.	7	A.Cu.	8	1
Gorleston	1001.3	-2	SSE	5	bc	49	97	6	-	-	0	A.Cu.	6	•
Valentia (Cahirciveen)	974.7	-2	SSE	6	c/p$_o$	52	85	8	1500	Cu.	8	-	8	2
Roches Point	981.2	-3	S	6	c	53	92	7	1500	Cu.Nb.	9	-	9	•
Pembroke (St. Ann's H.)	983.1	-2	SSE	5	c/r	53	92	7	1500	Cu.Nb.	8	A.St.	10	•
Ross-on-Wye	994.5	-3	SSE	4	c/d	52	85	7	2500	Nb.	9	A.St.	10	2
Leafield	996.6	-3	SSE	6	c/p$_o$	52	85	8	4000	St.Cu.	9	-	9	2
Winchester (Worthy Da.)	998.4	-2	SSE	5	c	54	75	7	4000	St.	6	A.Cu.	9	1
S. Farnborough	998.7	-3	SE	5	c/p$_o$	55	75	7	1500	St.Cu.	8	-	8	1
London (Kew Obsy.)	999.7	-2	SE	5	c+	57	65	8	2500	St.Cu.	9	-	9	1
Croydon	1000.9	-2	S	5	bc	58	65	7	2500	Cu.	5	Ci.	6	2
Shoeburyness	1002.4	-2	S	4	bc/	54	85	8	4000	Cu.	5	A.St.	7	•
Gleston-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1003.3	-3	SE	4	c	51	85	7	5700	St.Cu.	9	-	9	1
Lympne	1002.4	-3	SE's	5	bc-	53	75	6	7200	St.Cu.	1	Ci.	7	1
Scilly (St. Mary's)	986.2	-1	S	6	bc	53	92	6	4000	St.Cu.	4	A.Cu.	6	•
Falmouth (Pendennis)	989.1	-4	S'W	8	cr	54	85	7	2500	Nb.	6	A.St.	10	•
Plymouth (Mt. Batten)	991.8	-2	S	6	c/jp	55	85	8	2500	Nb.	9	A.St.	10	2
Portland Bill	994.3	-3	SSE	7	c	55	85	8	1500	St.Cu.	9	A.St.	10	2
Southampton (Calshot)	993.5	-2	SE's	6	c	55	75	7	2500	St.Cu.	3	A.Cu.	8	0
Dungeness	1002.5	-4	SSE	4	bc-	56	75	7	4000	St.Cu.	3	Ci.Cu.	7	•
Guernsey (St. Peter Port)	996.8	-2	SSE	5	c/p$_o$	55	80	6	2500	St.Cu.	10	-	10	•

Observations at 18h. 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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1001.2	-1	SE	4	c	49	92	7	1500	St.Cu.	5	A.St.	10	•
Stornoway	989.0	-3	SE	6	c	50	85	7	4000	St.Cu.	6	Ci.	8	4
Wick	995.1	-3	SSE	8	c/m	50	97	6	1500	St.	10	-	10	7
Tiree	986.4	-3	SSE	6	bc	50	97	7	2500	St.Cu.	7	-	7	6
Nairn	993.2	•	SSE	2	bc	50	85	7	2500	Cu.	5	-	5	•
Aberdeen	996.3	-3	SSE	5	c	50	92	7	800	Nb.	6	A.Cu.	9	1
Malin Head	983.6	-3	SE	6	bc	51	75	7	4000	St.Cu.	3	-	3	6
Renfrew	992.0	-2	SE	4	c/m	52	75	5	2500	St.Cu.	10	-	10	0
Edinburgh (Inchkeith)	994.8	-2	E	1	0	49	92	7	1500	St.	10	-	10	0
Lenchars	995.3	-1	ESE	3	c+	48	92	6	800	St.	9	-	9	•
Eskdalemuir	993.3	-2	SE	4	c	50	75	6	1500	St.Cu.	10	-	10	•
Tynemouth	996.2	-1	SSE	3	bc	50	85	6	2500	Cu.	3	-	3	2
Blacksod Point	975.8	-4	SE	5	c/PR	52	85	7	•	Nb.	8	-	8	7
Dunaghadee	986.5	-2	SE	6	c	53	85	7	4000	St.Cu.	8	-	8	4
Birr Castle	979.9	-2	SE	4	c/p$_o$	51	85	7	2500	Cu.Nb.	8	-	8	4
Holyhead	989.0	-3	SSE	6	bc-	53	85	7	2500	St.	4	-	4	4
Liverpool (Bidston)	991.1	-2	ESE	5	bc+	51	85	6	1500	Nb.	7	-	7	4
Chester (Sealand)	991.5	-2	SE	6	bc-	53	75	7	1500	St.	7	-	7	4
Harrogate	996.3	0	SE	4	0	50	85	5	2500	St.	10	-	10	4
Spurn Head	997.9	-1	SE	6	bc-	48	92	6	-	-	0	A.St.	4	4
Birmingham (Edgbaston)	995.3	-1	SE	5	0r	50	92	7	1500	Nb.	10	-	10	4
Cranwell	997.8	-2	SSE	5	b-	49	85	5	5700	St.Cu.	1	Ci.	2	4
Gorleston	1001.7	-2	SSE	5	bc-	50	92	6	4000	St.Cu.	3	-	3	4
Valentia (Cahirciveen)	975.8	+3	S	5	c/p$_o$	51	92	7	1500	Nb.	8	A.St.	10	4
Roches Point	980.7	+1	SW	6	c	52	92	7	1500	Cu.Nb.	9	-	9	6
Pembroke (St. Ann's H.)	986.6	-1	S	4	cr$_o$	53	97	7	1500	Cu.Nb.	7	A.St.	10	3
Ross-on-Wye	993.1	-2	SE	4	cd	52	85	6	1500	Nb.	10	-	10	4
Leafield	995.0	-2	SE	5	0.5+	49	92	7	2500	Nb.	10	-	10	4
Winchester (Worthy Da.)	997.3	-1	SSE	5	bc/-	50	92	8	1500	Nb.	4	-	4	•
S. Farnborough	997.8	-1	SSE	4	c/p$_o$	50	92	7	1500	Nb.	9	-	9	•
London (Kew Obsy.)	998.8	-1	SSE	5	0r	51	85	6	800	Nb.	10	-	10	•
Croydon	999.6	-2	S	6	0/r$_o$	51	85	5	1500	Nb.	10	-	10	•
Shoeburyness	1000.9	-1	SSE	4	c+	52	85	8	4000	Nb.	9	-	9	•
Gleston-on-Sea	1000.9	-2	SE	6	bc	51	85	7	5700	St.Cu.	4	-	4	5
Felixstowe	1002.3	-2	SE	5	bc-	50	92	7	5700	St.Cu.	3	Ci.	5	6
Lympne	1001.0	-1	SE's	5	c/o	52	85	7	4000	St.Cu.	9	A.St.	10	•
Scilly (St. Mary's)	987.7	+2	SSW	5	bc/p$_o$	50	92	7	4000	Cu.	6	-	6	5
Falmouth (Pendennis)	990.1	+1	SW's	6	bc	52	85	8	4000	Cu.	5	A.St.	7	4
Plymouth (Mt. Batten)	990.9	+1	SSW	6	0r	51	85	7	1500	Nb.	10	-	10	5
Portland Bill	992.2	-3	SSE	7	c/p$_o$	54	85	8	1500	St.Cu.	8	-	8	7
Dungeness	996.7	-3	SSE	6	c/-	53	85	7	2500	St.Cu.	9	-	9	6
Guernsey (St. Peter Port)	1000.4	-4	SSE	4	c/o	54	85	7	2500	Nb.	9	-	9	5
	996.2	+2	SSW	4	bc/p$_o$	54	85	6	2500	St.Cu.	6	-	6	6

LONDON OBSERVATIONS.

Day. 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 3h.-21h., other stations.

	Height above M.S.L. in feet.	Weather. Morning. 24 HOURS ENDED 9h.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs. YESTERDAY.	Humidity. 15h. G.M.T. % YESTERDAY.	Humidity. 9h. G.M.T. % TO-DAY.	Visibility.
Kew	18	bc ni,c	c fm,	c fm, bc	57	50	45	1	1	3.3	*	*	6
Croydon	244	cbc ni,2	bc m,c	o fr, bc	58	49	45	4	5	4.0	*	*	6
Greenwich (Royal Obsy.)	149	c	cr Rdd	cir	60	49	41	1	2	4.4	70	84	6
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	2.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	58	50	44	4		3.6	81	87	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	3.2	•	•	•
Camden Square	110	cb	bc cor	•	58	50	•	3	2	•	•	88	•
Kensington Palace	80	bc o	0r	•	58	50	44	2	2	•	(At 18h.) 91	83	•
Hampstead Observatory	450	•	•	•	58	46	39	3	1	3.6	•	88	•

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

23rd-24th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.31	11.39	15.48
	7.32	11.40	15.47
Greenwich	7.33	11.46	16.0
Wick	7.44	11.47	15.59
	8.21	11.53	15.34
Valentia	8.23	11.59	15.33
	8.17	12.28	16.38
	8.19	12.29	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.s
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. rz = continuous rain.

SYMBOLS.

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

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0.6	22nd 17h.	<0.3	23rd 1 to 2h.

Kew Observatory

Max.	Time.	Min.	Time.
0.2	22nd 8h.	<0.1	23rd 0-6h.

POLE STAR RECORD at Greenwich Obsy.

Exposur- from 22nd 17 h. 00 m. to 25rd 6 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.30	5.18	39
δ Ursae Minoris	13.30	3.52	29

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).

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

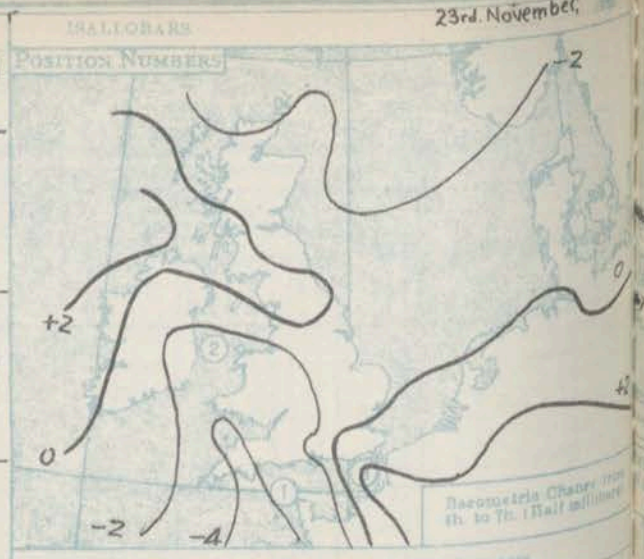
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	11 "
8. Very good.	22 "
9. Excellent visibility, beyond 22 m.	

† 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. 22nd	WEATHER. 18h.-18h. 22nd	WEATHER. 18h. 22nd to 1h. 23rd	WEATHER. 1h.-7h. 23rd.	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on Grass	RAINFALL† Day, 7h.-18h. mm.	RAINFALL† Day, 7h.-18h. began.	RAINFALL† Night, 18h.-7h. mm.	RAINFALL† Night, 18h.-7h. began.	SUN 22nd Hours.
Lerwick					49	48						0.0
Stornoway					53	48						2.7
Wick					50	49						
Tiree					52	48	45			5	22.00	0.7
Nairn					51	50						0.8
Aberdeen					51	49	47	0.1	18.00			0.0
Malin Head					53	44						0.6
Renfrew					54	47	44			0.5	1.30	0.9
Edinburgh (Inchkeith)					52	48	43			Tr	22.00	0.0
Leuchars					50	47	44			0.2	22.00	0.8
Eskdalemuir					51	44	43			3	22.00	2.3
Tynemouth					50	49	45	Tr	9.00			
Blacknod Point					52	45				10		
Donaghadee					53	46		2	9.00	10	<21.00	
Birr Castle					53	42	35		18.00	0.2	<21.00	1.0
Holyhead					54	47	45		9.00	5	<21.00	0.0
Liverpool (Bidston)					53	45	42	Tr	15.30	0.1	24.00	0.4
Chester (Sealand)					55	46	42	Tr	11.30	0.4	22.00	0.3
Harrogate					51	44	39	Tr	9.00	1	22.00	0.0
Spurn Head					50	46				0.4	03.30	1.7
Birmingham (Edgbaston)					53	45	42	0.1	12.30	2	<21.00	0.6
Cranwell					55	43	40	0.3	18.00	2	03.30	3.8 3.9
Gorleston					50	49	46	Tr	11.00	0.3	<21.00	0.0
Valentia (Cahirciveen)					53	43	38		18.00	3	<21.00	0.5
Roches Point					53	46		1	19.45 23.30	1	22.00	
Pembroke (St. Ann's H.)					54	47		3	18.00	8	<21.00	0.2
Ross-on-Wye					54	47	43	0.1	9.00	6	<21.00	0.0
Leafield					53	45	43	0.1	15.30 11.00	4	<21.00	0.4
Winchester (Worthy Dn.)					56	47	45	3	11.00	9	24.00	2.6
S. Farnborough					56	47	45		12.30	6	03.30	2.7
London (Kew Obsy.)					57	50	45		16.30	1	<21.00	3.3
Croydon					58	49	45		16.30	5	24.00	4.0
Shoeburyness					57	48	45	0.1	18.00	0.5	04.30	2.9
Clacton-on-Sea					52	49	46			0.2	<21.00	1.5
Felixstowe					51	48	43	Tr	18.00	1	<21.00	2.1
Lympne					54	49	46	0.2	18.00	1	05.30	2.1
Scilly (St. Mary's)					54	45		0.3	11.00	8	<21.00	2.3
Falmouth (Pendennis)					55	47		4	18.00	3	02.30	0.3
Plymouth (Mt. Batten)					56	48	47	6	18.00	8	<21.00	0.2
Portland Bill					56	52		Tr	16.30	2	<21.00	
Southampton (Calshot)					55	50	47	0.1	11.00	4	24.00	1.6
Dungeness					56	51		Tr	16.30	0.1	<21.00	
Guernsey					56	51	45	0.3	12.30	0.4	<21.00	1.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.	
2	22nd 10h.	Cambria	SE	6	C	54	54	7

GENERAL INFERENCE.

A deep depression off West Ireland will move slowly northwards and small secondary disturbances are likely to pass in a northerly or northeasterly direction over the British Isles. Bright periods will occur in most districts, but there will be showers which are likely to be of a wintry type in the West and North. Temperature will be relatively high in southeastern districts and mainly moderate elsewhere.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 23rd. November, 1929.	Further Outlook.
1. S.E. England ▼ 2. E. England 3. E. Midlands	Wind southerly, fresh or strong, becoming southwesterly; showery; some bright periods; relatively high temperature.	Unsettled showers and some bright intervals; moderate temperature.
4. W. Midlands 5. S.W. England ▼ 6. South Wales 7. North Wales	Wind south or southwest, fresh, or strong locally; showers, perhaps with hail; some bright intervals; moderate temperature.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind southerly, moderate or fresh, becoming southwesterly; showers, perhaps of a wintry type; some bright intervals; moderate temperature.	
12. S.W. Scotland & Isle of Man 13. (A) W. Scotland (B) N.W. Scotland 14. Midd[illegible]	Wind south or southwest, moderate or fresh; variable sky; showers, perhaps of a wintry type; some bright intervals; moderate temperature.	▼ South Cone hoisted at 8h. 45m. G.M.T. today.
15. N.E. Scotland 16. Orkneys and Shetlands	Wind southeast or south, fresh, or strong at times, probably becoming southwest; variable sky; showers; bright intervals; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwesterly, moderate or fresh, but stronger locally at times; probably veering; showers, perhaps of a wintry type; moderate temperature.	

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

P.C. 148/675 M.O. 2900a. 14/100. 11/29.

† For code see page 1

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

SYNOPTIC CHART FOR 7h. SATURDAY, 23RD NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

LOW.

Barometer

Falling

Slowly

HIGH.

Rising

Slightly

LACONIA 21 48 Sea ? Fine

LANCASTRIA 21 49 Sea 53 Heavy Hail Showers

H.M. SHIP 42 53 Sea 53 Heavy Showers

H.M. SHIP 27 57 Sea 59 Thunderstorm

41 Cloudy 15

41 O'cast -3 27

37 O'cast -4 0

37 Rain -4 5

45 O'cast -5 27

39 Fine 21

48 O'cast -3 27

50 Fine 21

19 O'cast 0

48 Cloudy 42

45 Fine 21

50 Cloudy 15

50 O'cast 42

50 Cloudy 21

47 Rain 15

45 Fine 10

49 Cloudy 10

48 Cloudy 21

45 Cloudy 15

47 Showers 21

47 Fine 21

44 Heavy Showers 10

47 Cloudy 10

48 Cloudy 15

50 Cloudy 27

46 Fine 21

50 Fine 15

54 Heavy Showers 35

48 Cloudy 27

53 Cloudy 15

54 Cloudy 35

48 Fine 15

34 Fog 5

32 Thick Fog 0

48 Fine 5

46 Fine 5

45 Cloudy 10

34 Fine 2

32 Cloudy 2

50 Cloudy 21

41 Fine 0

43 Fine 5

57 Fine 21

48 Thick Fog 5

55 Cloudy 10

1016

1014

1018

EXPLANATION

BAROMETER. Isobars are drawn for every tenth 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 clouded. Sky more than ½ clouded.

Overcast sky. ● rain falling.

≡ fog. ≡ mist.

△ hail. ℞ thunderstorm.

DISTURBANCE.

CALM. Very Rough.

In 24 hr. barometric change from 1 to 10 millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Saturday, 23rd November 1929. No. 327.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 23rd												Observations at 7h. G.M.T. 23rd											
		Baromr. at M.S.L.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Baromr. at M.S.L.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
		mb.												mb.											
Lerwick	34	9986	-2	SE	6	c	49	92	7	1500	Stcu	5	Ast	5	995·9	-2	SE	8	c	48	92	7	1500	StCu	5	Ast	10
Stornoway	30	988·1	-3	SE	4	c	*	*	6	*	*	*	*	10	982·3	-2	SE	4	c	50	85	7	4000	Cu	8	-	10
Wick	83	9926	-2	SSE	8	o	49	97	7	1500	St	10	-	10	988·9	-2	SSE	8	o	50	92	7	1500	St	10	-	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	981·1	0	S	6	bc	48	85	8	2500	StCu	3	Ast	5
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	986·8	*	-	0	bc	50	75	8	2500	Cu	3	ACu	10
Aberdeen	77	*	*	*	*	*	*	*	*	*	*	*	*	*	989·9	-2	SSE	6	c	50	92	6	1500	Nb	8	Ast	
Malin Head	81	9929	-3	SE'S	6	bcr	50	85	7	4000	Stcu	7	-	7	981·3	+2	SSE	3	bc	45	75	8	5700	StCu	1	CiCu	6
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	987·1	0	SSE	4	or	47	85	8	1500	Nb	10	-	10
Edinburgh (Inchkeith)	106	9906	-4	ESE	4	c	60	85	7	2500	Stcu	9	-	9	988·5	-1	SE	3	c	50	85	8	2500	StCu	10	-	9
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	986·9	-1	ESE	3	c	48	85	6	2500	StCu	6	ACu	10
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	988·6	0	S'E	4	cr	45	92	7	1500	Nb	8	Ast	8
Tynemouth	67	9926	-2	SSE	3	c	50	85	6	1500	Nb	8	-	8	990·9	0	S	3	c	49	92	7	1500	Nb	8	-	10
Blacksod Point ...	18	9941	-1	SE	6	o	50	75	6	*	Nb	10	-	10	977·0	+1	S	5	c	48	75	7	*	CuNb	10	-	8
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	984·2	0	S'E	2	cr	47	92	7	2500	Nb	8	-	9
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	980·1	-2	SE	3	c	45	92	7	4000	StCu	9	-	9
Holyhead	28	9877	-1	SSW	6	cr	49	97	6	800	Nb	9	-	9	986·5	-3	SSE	5	c/pr	47	92	7	1500	St	2	CiSt	7
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	988·1	-2	SE'E	5	bc	45	92	5	2500	Nb	4	Ast	8
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	988·9	-3	SE'S	4	c+	46	85	8	1500	St	1	CiSt	
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	992·7	0	SE	3	c	44	92	6	2500	Nb	7	ACu	8
Spurn Head	20	9919	-1	S	5	c+	48	92	7	4000	Stcu	3	Acu	8	994·3	0	S'W	5	bc-	47	92	7	4000	CuNb	6	-	8
Birmingham (Edgbaston)	636	*	*	*	*	*	*	*	*	*	*	*	*	*	992·4	-2	SSE	3	c	47	92	8	800	Nb	7	Ast	1
Cranwell	336	9960	-2	SSE	4	bc+	48	92	6	2500	Stcu	6	Acu	7	995·1	0	SSE	4	b-	43	97	7	4000	StCu	1	-	8
Gorleston	14	9997	-3	S	6	b-	50	92	7	-	-	0	CiCu	2	999·2	0	S'W	6	c+	50	92	6	2500	Cu	8	-	
Valentia (Cahirciveen)P	30	9797	+3	SW	3	oR	46	92	8	*	St	10	-	10	978·6	0	SW'S	3	c/PR	44	92	8	1500	CuNb	7	CiCu	9
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	981·8	-1	SW	3	c	48	85	7	1500	CuNb	9	-	8
Pembroke (St. Ann's H.)	180	9873	+2	S	4	c/PR	50	92	8	1500	CuNb	8	-	8	983·7	-4	SW	4	c/r	48	97	8	1500	CuNb	6	Ast	10
Ross-on-Wye	223	*	*	SSW	*	*	*	*	*	*	*	*	*	*	990·8	-3	SSE	4	or	48	92	6	2500	Nb	10	-	7
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*	993·0	-3	SSE	5	bc+	46	92	7	2500	StCu	7	-	
Winchester (Worthy Dn.)	212	*	*	*	*	*	*	*	*	*	*	*	*	*	995·5	-2	S'E	5	c-	49	85	7	800	StCu	9	ACu	9
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	996·1	-2	SSE	4	c	49	85	7	800	St	9	ACu	10
London (Kew Obsy.) ...	18	*	*	*	*	*	52	*	*	*	*	*	*	*	996·9	0	S	4	b+	50	85	8	450	Cu	1	ACu	2
Croydon	244	9952	0	S	4	orr	50	92	6	800	Nb	10	-	10	998·5	0	S'W	4	bc/r	51	85	6	1500	St	3	-	3
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	999·4	0	S	4	b	49	92	8	4000	CuNb	1	-	1
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	999·6	0	SSW	5	bc	50	85	7	4000	Cu	7	-	7
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	999·3	0	S	5	bc	50	85	7	1500	St	7	-	10
Lympne	350	10001	+1	S	5	C+	51	85	7	1500	St	9	-	9	1000·5	+1	S	6	c+	50	85	8	1500	StCu	10	-	5
Scilly (St. Mary's) ...	163	9810	-1	SSW	6	C/PR	48	92	7	4000	CuNb	9	-	9	986·0	-2	SSW	6	c/p	48	92	7	4000	CuNb	8	-	8
Falmouth (Pendennis)	200	9916	-1	SW	6	tc	52	85	7	4000	Cu	3	Acu	5	987·0	-3	SW'S	8	bc	53	85	7	4000	StCu	5	-	9
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	988·2	-4	S	7	c/p	53	85	7	2500	CuNb	9	-	10
Portland Bill	37	9940	+1	SSW	6	tr/c	53	85	8	1500	Stcu	7	-	7	991·3	-3	SSE	7	c/PR	54	85	7	1500	Nb	8	Ast	7
Southampton (Calshot)	10	9946	0	SW	6	c/pr	51	92	8	2500	CuNb	4	Ast	8	996·5	-3	S'W	6	bc	52	85	8	1500	StCu	5	ACu	8
Dungeness	20	9992	0	SSW	5	bc+	53	92	8	2500	Stcu	6	-	6	999·6	+2	SSW	6	c+	52	85	8	2500	StCu	8	-	10
Guernsey (St. Peter Port)	172	9982	+3	SW	4	bc	51	85	8	2500	Stcu	6	-	6	998·2	-3	SSE	4	c	53	92	7	2500	StCu	10	-	

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 21st to 9h. 22nd.	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	c	c	‡43	50	-	-	0·6
Douglas (I. o. M.) ...	c	cl	‡48	52	2	Trace	0·7
Llandudno ...	c	cbc	51	56	0·2	0·2	0·3
Colwyn Bay ...	cbc	cocbo	51	54	-	0·3	0·3
Rhyl	c	cb	50	55	-	0·3	0·0
Wallasey	bc	cocbc	‡47	54	-	-	0·3
Southport	bco	cbc	‡48	54	0·1	-	1·6
Blackpool	c	c	‡49	54	0·3	-	1·7
Morecambe ...	cbc	cbc	‡49	55	-	-	1·3
Ilkley	omo	go	‡41	52	-	-	0·0
Cleethorpes	oc	b	‡41	54	Trace	-	2·7
Mablethorpe ...	orbcm	bbbcm	‡43	50	Trace	Trace	2·0
Skegness	bopr	cbc	‡45	52	0·2	-	1·9
Aberystwyth ...	rcbc	cr	52	55	0·5	Trace	2·3
Bath	cir	cir	51	55	Trace	Trace	0·0
Cheltenham ...	or	obc	‡49	54	-	0·5	0·4
Leamington Spa ...	ocbc	cor	‡46	55	Trace	Trace	0·7
Lowestoft	obc	bc	‡47	51	-	-	0·9
Harwich & Dovercourt	doc	bc	‡47	51	Trace	-	2·3
Maldon	cbc	bc	‡42	57	-	-	3·0
Ilfracombe	ro	orc	53	55			3
Bude	cpbc	bcp	50	54			4
St. Ives	c	p	50	55			6
Penzance	cpir	cpir	51	55			4
Paignton	orpcp	orp	54	55			2
Torquay	orpcpr	orp	53	56			1
Jersey	cbcc	c	50	57			-
Weymouth	o	cbcpc	52	56			0·5
Bournemouth ...	co	coro	51	55			0·5
Ventnor ...	cwo	oor	51	56			1
Portsmouth (S'thsea)	bbc	cor	52	56			1
Bognor Regis ...	bbcc	oir	52	55			1
Littlehampton ...	bc	bcr	51	55			1
Worthing	bc	cor	52	56			1
Brighton	bcb	bcr	52	56			2
Eastbourne	bcc	orr	53	56			1
Hastings	bccbc	bccor	52	56	0·1	0·1	-
Folkestone	rocbc	bc	50	56	0·2	Trace	Trace
Dover	cir	cbcc	52	56	Trace	-	-
Deal	oc	co	‡49	56			-
Tunbridge Wells ...	bc	bcc	‡48	57			-
Ramsgate	cbc	bcc	50	55			-
Margate	bc	bc	‡48	56			-
Southend	c	cbcc	‡47	55			-

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24.839 Sunday 24th November 1929.

Observations at 13h. G.M.T. 23rd

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	993.4	-4	SE	7	c/p	48	92	7	1500	C.Nb	4	A.St	10	•
Stornoway	992.1	-2	S	2	bc+	51	75	8	4000	Cu	6	A.Cu	7	•
Wick	987.5	-2	SSE	6	c	49	92	7	1500	Nb	7	A.Cu	9	•
Tiree	979.2	-3	SSE	6	c r r	46	97	6	2500	Nb	9	A.St	10	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	988.2	-3	SSE	5	c	49	85	6	800	Nb	9	-	9	1
Malin Head	979.6	-3	S	2	c r$_o$	45	85	7	2500	C.Nb	5	A.Cu	8	•
Renfrew	984.7	-4	ESE	4	c r$_o$	47	85	7	1500	St Cu	10	-	10	2
Edinburgh (Inchkeith)	986.2	-3	SE	4	o	48	85	8	800	St	10	-	10	•
Leuchars	987.0	-3	ESE	3	c	49	85	6	1500	St	8	A.St	9	2
Eskdalemuir	984.3	-6	SE'S	5	bc	46	85	7	1500	St Cu	7	-	7	2
Tynemouth	987.7	-5	SSE	4	or$_o$	49	92	7	1500	Nb	10	-	10	•
Blackpool Point	976.7	0	S	4	c	48	75	8	•	C.Nb	8	-	8	•
Donaghadee	979.9	-4	SW	2	c R-	48	85	7	2500	Nb	9	-	9	•
Birr Castle	980.0	0	S	2	bc	50	65	8	4000	Cu	9	Ci	5	•
Holyhead	983.3	-3	SW'S	4	c r$_o$	47	97	6	1500	St	9	A.St	10	2
Liverpool (Bidston)	983.6	-5	SSE	3	or r	48	92	7	1500	Nb	10	-	10	•
Chester (Sealand)	984.0	-5	SSE	4	c/r	50	92	7	800	Nb	7	A.St	8	2
Harrogate	986.9	-5	SE	4	c r	47	97	5	2500	Nb	9	A.St	10	•
Spurn Head	989.7	-3	S'E	6	c	48	92	7	4000	Nb	5	A.St	10	•
Birmingham (Edgbaston)	987.5	-6	SSW	4	c r r	49	92	8	1500	Nb	9	-	9	2
Cranwell	988.8	-11	SSE	6	or r	49	92	6	800	Nb	10	-	10	2
Gorleston	995.5	-7	S	8	o	50	92	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	980.0	+1	SW'S	4	c/p r$_o$	46	92	8	1500	St	7	A.St	9	2
Roches Point	982.8	+2	W	3	c	49	85	8	1500	C.Nb	8	-	8	•
Pembroke (St. Ann's H.)	983.8	0	SW	5	c r r	48	92	7	1500	C.Nb	7	A.Cu	9	•
Ross-on-Wye	986.9	-3	SSW	3	c+	51	75	7	4000	St Cu	9	-	9	2
Leafield	988.1	-5	S'W	6	c/p	51	85	8	1500	C.Nb	7	A.St	9	2
Winchester (Worthy Dn.)	991.1	-4	S	6	or r	51	97	7	450	Nb	10	-	10	2
S. Farnborough	991.2	-5	S	5	or-	51	92	7	800	Nb	10	-	10	2
London (Kew Obsy.)	991.9	-4	S	6	c R	52	85	6	800	Nb	8	A.St	10	2
Croydon	993.4	-6	SSW	6	or r$_o$	50	97	5	450	Nb	10	-	10	2
Shoeburyness	995.1	-4	S	7	c r$_o$	51	92	8	800	Nb	7	A St	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	996.2	-7	SSE	8	c r$_o$ r$_o$	50	97	7	1500	Nb	8	A St	9	2
	996.6	-5	S'E	7	c/r	50	85	7	1500	St	9	A St	10	2
Scilly (St. Mary's)	988.2	+3	WSW	7	c/P R	51	75	7	4000	C.Nb	8	-	8	•
Falmouth (Pendennis)	989.7	+4	WSW	6	bc-	50	75	7	4000	C.Nb	5	A St	7	•
Plymouth (Mt. Batten)	989.2	+4	SSW	8	c/p r$_o$	51	75	7	2500	C.Nb	9	-	9	2
Portland Bill	988.4	-2	SSW	8	bc-	54	85	7	1500	C.Nb	4	A St	7	•
Southampton (Calshot)	991.7	-3	SSW	7	c/r	53	85	6	800	Nb	5	Ci	8	2
Dungeness	995.9	-4	SSW	7	c r	53	85	8	1500	St Cu	10	-	10	•
Guernsey (St. Peter Port)	995.4	+5	SW	5	c/P H	54	75	7	1500	St Cu	10	-	10	•

Observations at 18h. G.M.T. 23rd

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	991.7	-2	SE	6	c	49	92	7	1500	St Cu	5	A. St	5	•
Stornoway	979.3	-3	E SE	5	c	49	75	7	2500	St Cu	9	-	9	4
Wick	984.8	-3	S S E	7	or r$_o$ r$_o$	49	97	7	1500	Nb	10	-	10	7
Tiree	978.5	0	SW'S	4	c	46	85	8	2500	St Cu	6	A St	9	4
Nairn	981.2	•	SE'S	2	c+	49	75	7	1500	St	8	-	8	-
Aberdeen	983.2	-7	S'E	6	o r r	49	97	6	800	Nb	10	-	10	7
Malin Head	979.2	0	S	4	b	45	75	8	5700	St Cu	2	-	2	1
Renfrew	983.8	0	SE	3	c/r	44	92	7	1500	Nb	6	A St	10	•
Edinburgh (Inchkeith)	982.2	-4	SE	3	or$_o$	47	85	8	2500	St	10	-	10	1
Leuchars	981.6	-6	SE	3	c/r	48	92	7	800	Nb	8	A. St	8	•
Eskdalemuir	983.2	+1	SSW	5	o r r	42	92	6	800	Nb	10	-	10	•
Tynemouth	984.9	-2	S	3	bc/r	49	85	7	2500	C.Nb	3	-	3	4
Blackpool Point	976.0	-1	S	6	c	49	75	7	•	C.Nb	10	-	10	7
Donaghadee	982.0	+3	SW	2	b-	44	97	7	4000	Cu	1	-	1	1
Birr Castle	982.1	+2	S S E	2	b	44	75	7	4000	St Cu	2	-	2	•
Holyhead	986.9	+5	SW	4	b c r	46	97	6	2500	C.Nb	5	-	5	1
Liverpool (Bidston)	988.0	+5	SW	4	c/p r$_o$	45	85	8	1500	Nb	9	-	9	•
Chester (Sealand)	988.4	+6	S SW	4	o r	46	85	7	1500	Nb	10	-	10	•
Harrogate	988.3	+5	SSW	3	bc/r	46	85	7	2500	Nb	5	-	5	•
Spurn Head	990.1	+1	SW'S	5	bc-	48	92	7	4000	Nb	4	-	4	5
Birmingham (Edgbaston)	992.9	+7	S S W	4	bc-	45	85	8	2500	Nb	4	-	4	•
Cranwell	991.7	+7	SW S	5	b	47	75	7	2500	St Cu	1	-	1	•
Gorleston	996.4	+4	S'W	5	or$_o$ r$_o$	52	87	6	1500	Nb	10	-	10	5
Valentia (Cahirciveen)	981.1	+2	S	5	bc/p r$_o$	46	75	8	2500	C.Nb	2	A.St	4	4
Roches Point	985.0	+3	W	3	bc	48	85	8	2500	C.Nb	3	-	3	6
Pembroke (St. Ann's H.)	988.0	+4	WSW	5	bc/r	48	97	8	1500	C.Nb	4	A. Cu	6	4
Ross-on-Wye	992.0	+6	SW	4	b	47	75	8	4000	C.Nb	1	-	1	•
Leafield	993.7	+7	S'W	4	b-	48	75	8	4000	St Cu	2	-	2	•
Winchester (Worthy Dn.)	997.0	+6	SSW	3	c R	46	85	7	1500	Nb	8	-	8	•
S. Farnborough	995.7	+6	S S W	4	b	47	85	8	-	-	0	C St	1	•
London (Kew Obsy.)	996.8	+7	SSW	4	bc/r	49	75	6	2500	St Cu	4	-	4	•
Croydon	997.2	+7	SW	4	bc-	48	75	7	1500	St	3	-	3	•
Shoeburyness	998.1	+7	SW'S	6	b	49	85	8	-	-	0	-	0	•
Clacton-on-Sea	996.9	+2	SSW	6	bc r	49	85	7	4000	C.Nb	7	-	7	5
Felixstowe	998.1	+5	S	6	bc	49	85	7	2500	St Cu	5	-	5	7
Lympne	998.7	+4	SSW	6	bc-	50	85	8	1500	St Cu	3	-	3	•
Scilly (St. Mary's)	999.4	+5	SWW	7	c/P R	50	85	7	4000	C.Nb	8	-	8	7
Falmouth (Pendennis)	998.5	+3	WSW	6	c/P R	49	75	7	4000	C.Nb	7	A St	9	7
Plymouth (Mt. Batten)	999.0	+6	WSW	7	b-	51	65	8	4000	C.Nb	2	-	2	5
Portland Bill	999.0	+8	SW	7	bc-	51	85	8	1500	St Cu	6	-	6	7
Southampton (Calshot)	997.3	+7	WSW	6	bc/p r$_o$	49	75	7	1500	C.Nb	4	Ci	5	7
Dungeness	998.7	+4	SW	7	bc-	52	85	7	2500	C.Nb	5	-	5	7
Guernsey (St. Peter Port)	1000.4	+5	WSW	4	bc/p r$_o$	50	85	7	800	St Cu	6	-	6	6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.§
		24 HOURS ENDED 9h.						YESTERDAY.			TO-DAY.		
Kew	18	c r R$_m$	R a bc	bcm s R r$_o$	54	46	42	5	5	0·5	*	*	5
Croydon	244	bc r r$_o$	or R bc	bcb or r	54	45	41	7	1	0·3	*	*	6
Greenwich (Royal Obsy.)	149	c r	c R i d r bc	bc R r c	53	44	37	4	4	0·4			4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·3	*	*	•
Westminster (St. James' Pk.)	27	*	*	*	56	46	40	9		0·3	85	90	•
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0·1	*	*	•
Camden Square	110	o r c	o r c b	*	53	46	*	4	4	*	*	92	•
Kensington Palace	80	o p r q	o r	*	54	45	40	5	4	*	{At 18h. .78	87	•
Hampstead Observatory	460	*	*	*						0·1	*		•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0·5	20h. 23m	<0·3	2-7h. 24th

Kew Observatory

Max.	Time.	Min.	Time.
0·1	19h. 23m	<0·1	1-6h. 24th

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 30	08 15	62
δ Ursae Minoris	13 30	07 02	52

CODE FOR STATE OF GROUND.

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

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

24th-25th November....., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·32	11·40	15·47
	7·34	11·40	15·46
Greenwich	7·34	11·47	15·59
	7·36	11·47	15·58
Wick	8·23	11·59	15·34
	8·26	11·59	15·33
Valentia	8·17	12·28	16·39
	8·19	12·28	16·37

BEAUFORT NOTATION OF WEATHER.

b bine 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 taunder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r$_o$ = slight rain. rr = continuous rain.

SYMBOLS.

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

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

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	5½ "
7. Good.	13¾ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

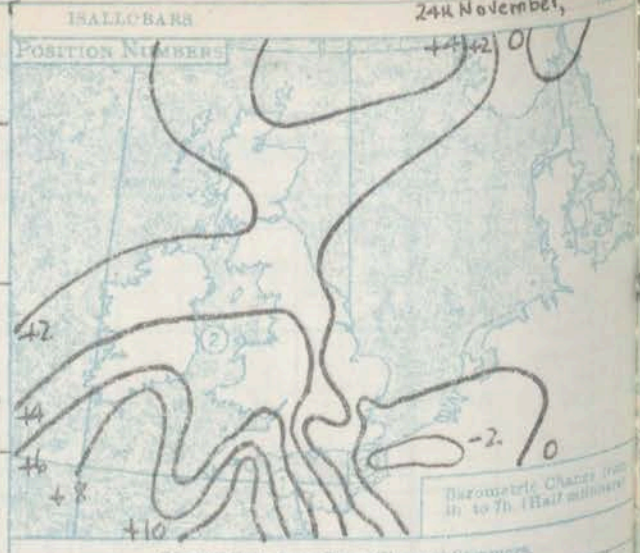
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

SUN 23rd Hours 24th

STATIONS.	WEATHER. 7h.-18h. 23rd	18h.-18h. 23rd	18h. 23rd to 18h. 24th	18h.-7h. 24th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL. Day. 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	SUN Hours
Lerwick	cpr	cpr	coir	cpr	49	48	.	Tr	11.00	1	<21.00	0.0
Stornoway	c	bcc	crc	bccq	52	45	.	-	-	3	<21.00	1.9
Wick	cprc	cor	iRir	b-bc	50	46	.	0.4	11.00	4	<2100	.
Tiree	cr	rRC	bc	cr	49	44	40	11	11.00	0.3	04.30	0.0
Nairn	bc	bcc	cr bc	cbc	51	41	.	-	-	0.6	<21.00	1.3
Aberdeen	corrmcz	czirorr	orrm.oc	cz.c	50	45	42	8	<8.00	2	<21.00	0.4
Malin Head	bccir	cbc	bbc	bcc	46	43	.	2	9.00	Tr	06.30	1.1
Renfrew	rc.r	cor.r	cbc	bc,orbcb	49	40	34	1	<8.00	1	02.30	0.7
Edinburgh(Inchkeith)	c	oir	ocbc	b-bc	50	44	35	0.4	15.30	Tr	<21.00	0.7
Leuchars	cmcem	circirc	cirr.cbc	bccbc	49	39	30	1	13.30	0.3	<21.00	1.3
Eskdalemuir	cprbc	bccor	crrbcpRh	bcr.r.bc	47	39	37	11	<8.00	7	<21.00	0.0
Tynemouth	coir	oiRq	bcb	bco	49	43	38	5	12.30	-	-	.
Blacksod Point	pqc	phqc	phqc	pqc	51	48	.	8	.	6	.	.
Donaghadee	ciR	cpr.b	b	bbc	50	42	.	5	<8.00	-	-	.
Birr Castle	cr.cbc	bcb	bcr.b	bcr.c	50	40	32	Tr	<8.00	4	<21.00	4.4
Holyhead	~~qprcKqRH~~	ir.bc	Rrqrkq.R	Rr.b	53	45	42	7	9.00	11	<21.00	0.1
Liverpool (Bidston)	bccp.	PRp.	bbccr	r.cbc	49	41	38	5	9.00	1	24.00	0.2
Chester (Sealand)	cr.irv	cRqr	orq	crq	50	39	33	6	9.00	2	<21.00	0.4
Harrogate	cir	circbc	bc cp	bcc	48	41	34	4	9.00	0.1	22.00	0.0
Spurn Head	bccpr.	cqRcbc	bc	cpr	50	44	.	2	9.00	0.4	02.30	1.3
Birmingham (Edgbaston)	orr	orcpr.	bcor	orc	50	42	39	15	<8.00	2	24.00	0.1
Cranwell	mrorr	orrcb	b-c	cr	51	41	38	5	11.00	1	04.30	0.0
Gorleston	cbccoqu	or.rq	or.bcbq	bccirq	53	45	43	0.4	14.30	1	<21.00	0.2
Valentia(Cahirciveen)	cpbcp.	bccRR	prq	Prhq	50	45	40	2	<8.00	7	<21.00	1.6
Roches Point	cpc	cbcp.bc	bcp.b	b	50	45	.	1	9.00	0.3	<21.00	.
Pembroke(St.Ann's H.)	orcq	cirq	cbcRL	bcr.q	52	48	.	3	<8.00	2	<21.00	0.8
Ross-on-Wye	RorRrc	Pcpbcb	bcbcbcr	orcor.	52	43	39	15	<8.00	5	<21.00	1.3
Leafield	cirR	bcjp	bbccP	cpcir.	52	40	37	5	<8.00	5	24.00	0.8
Winchester (Worthy Dn)	crqoR	orrcr.	cir	bccRorr	52	42	30	9	<8.00	17	<21.00	0.1
S. Farnborough	corrRR	orrqhbc	b,cPbccP	ccRqr	53	43	39	9	<8.00	9	<21.00	0.2
London (Kew Obsy.)	crRm.	Rqbc	bcm.qR	bcm.crm	54	46	42	5	9.00	5	<21.00	0.5
Croydon	bccror.r	or.Rbc	bcb-c	crr	54	45	41	7	9.00	1	05.30	0.3
Shoeburyness	bcqcr.	cqrrlrh	crbc	bccrr	53	42	39	9	9.00	2	<21.00	0.8
Clacton-on-Sea	bcc	cqrbc	cbbc	bccpbcc	51	46	41	3	13.30	1	<21.00	0.2
Felixstowe	cr.	cRRq	bcor	orr	52	45	43	5	<8.00	0.6	<21.00	1.7
Lympne	ccrrm.	cr.mprbc	bc lb	bcorrm.	53	46	40	3	11.00	4	<21.00	0.5
Scilly (St. Mary's)	cbcP	cp	cbccp	crbcp	51	44	.	7	<8.00	6	<21.00	1.9
Falmouth (Pendennis)	bccPq	bccPq	cPlbcq	bcq	54	45	.	2	<8.00	4	<21.00	1.5
Plymouth(Mt.Batten)	cqRm.pc	cqRrb	bqcrpr	cpr.bq	55	46	44	3	<8.00	2	<21.00	1.8
Portland Bill	ciPc	cip.c	c1ip.	ciPc	55	47	.	5	<8.00	45	<21.00	.
Southampton(Calshot)	bccpqr	cqrmpRc	bcqPr	bcPr.r.	54	46	43	3	<8.00	7	<21.00	0.5
Dungeness	cerrer	crcqrh	bcqbcrb	bcorr	55	48	.	5	11.00	5	<21.00	.
Guernsey	ophro	ophrc	bcprc	cp	54	47	45	8	<8.00	2	01.30	1.5



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
1	23rd 12h	St Helier	SW	8	b-	53	55
3	24th 2h	Dieppe	SW	5	b/r	51	52

GENERAL INFERENCE.

A depression off our Northwest Coasts is moving slowly northward and is decreasing in intensity. Showers are still probable generally, but there will be considerable bright periods. Conditions continue favourable for the early approach of further depressions from the Atlantic.

Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 24th November, 1929.

Districts.	Forecasts	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate southwest to west winds, variable sky, showers at first, becoming brighter temporarily, mild or moderate temperature.	Unsettled.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate or fresh southwest winds backing again towards south later and freshening; bright at first apart from local showers, cloudy with rain probable again tomorrow, mild or moderate temperature.	
10. N.E. England 11. S.E. Scotland	Moderate or fresh south to southwest winds, variable sky, showers, mild or moderate temperature.	
12. S.W. Scotland & Isle of Man 13. (A) W. Scotland (B) NW. Scotland	As 5 - 9.	South Cone still flying.
14. Mid-Scotland	As 10 - 11.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate to strong southerly winds, some rain or showers, mild or moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Southerly winds, moderate to fresh, becoming strong, bright at first, apart from local showers, cloudy with rain later, mild or moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2 — Forecasts issued at 1130 G.M.T.

† For code see page 1

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

SYNOPTIC CHART FOR 7h. SUNDAY, 24TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

LOW

LOW

Barometer rising.

Baromet r ic changes slight.

Bar. rising slowly.

Bar. rising briskly.

Bar. rising

HIGH

45 (27) O'cast -1

41 (0) Cloudy +4

39 (21) Rain +1

45 (35) Cloudy -0

45 (15) Rain +3

48 (15) Cloudy

49 (42) Cloudy

47 (35) Cloudy

47 (15) Cloudy

41 (10) Fine

45 (27) Rain

50 (27) Cloudy

45 (5) O'cast

14 (2) Rain

49 (21) Cloudy

46 (21) Cloudy

46 (21) Fine

43 (10) Rain

49 (21) Cloudy

51 (15) Fine

46 (5) Rain

50 (27) Cloudy

50 (27) Fine

48 (15) Showers

54 (42) Cloudy

55 (21) Sea 37 Cloudy

45 (5) Fine

736 (?) O'cast

57 (0) Cloudy

50 (5) Showers

41 (21) Drizzle

32 (15) O'cast

46 (21) Fine

41 (10) Fine

45 (10) Cloudy

43 (10) Cloudy

43 (5) Fine

46 (10) Drizzle

50 (15) Cloudy

37 (15) Rain

52 (10) Cloudy

34 (0) Fog

43 (20) Cloudy

46 (2) Cloudy

57 (10) Cloudy

EXPLANATION

Isobars are drawn at intervals of two millibars.

Arrows fly with the wind. Number of feathers with the wind. Force. Mean velocity in miles per hour entered in adjacent circle.

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. Rain. Snow. Fog. Thunderstorm.

WIND. Very Rough.

PRESSURE. Barometer changing rapidly. Barometer changing slowly. Barometer steady.

Isobars are drawn at intervals of two millibars.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 24th November 1929. No. 328.

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 24th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 24th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain. 0-6
Lerwick	34	986·8	-4	SE	8	c	49	92	7	1500	StCu	5	ASt	9	990·8	+5	3E'E	4	c|p	48	85	7	1500	CuNb	3	ASt	9	·
Stornoway	30	980·4	+1	SW	5	bc-	•	•	7	•	•	•	•	7	980·1	+3	SSW	8	c	49	75	7	4000	StCu	9	-	9	5
Wick	81	983·0	+5	S	6	b-	47	86	8	-	-	0	ACu	2	986·8	+4	SSW	7	c	47	85	8	2500	StCu	8	-	8	7
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	980·3	+2	S'W	6	cr₀+	47	85	7	2500	Nb	8	ASt	10	6
Nairn	89	•	•	•	•	•	•	•	•	•	•	•	•	•	986·1	•	SW	2	bc	46	75	8	2500	Cu	5	-	5	·
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	990·9	+3	SSE	4	c	47	85	7	1500	Cu	3	ACu	8	4
Malin Head	51	979·9	+1	SSE	6	bc+	45	75	8	5700	StCu	1	CSt	7	982·2	+3	S	6	cr₀	45	85	7	4000	StCu	9	-	9	3
Renfrew	89	•	•	•	•	•	•	•	•	•	•	•	•	•	989·6	+2	ESE	3	bc+	41	92	8	2500	StCu	3	Ci	4	·
Edinburgh (Inchkeith)	100	987·7	+5	SW	2	bc	45	85	8	-	-	0	ACu	3	990·8	+3	SW	3	bc	45	85	8	4000	StCu	5	ACu	6	·
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	990·8	+2	-	0	bc	42	92	7	2500	StCu	6	Ci	7	·
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	991·0	+3	S'W	4	bc	41	92	8	1500	Cu	7	-	10	2
Tynemouth	67	991·7	+3	S	2	b	44	92	7	1500	St	2	-	2	992·2	+1	S	2	o	45	85	7	1500	Nb	10	-	10	8
Blacksod Point	18	976·8	+1	S	7	c	50	75	6	•	CuNb	10	-	10	984·2	+3	W	6	c	50	75	7	•	CuNb	10	-	10	4
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	987·6	+3	SW	2	bc	45	85	8	4000	Cu	4	-	8	2
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	989·3	+5	SW	1	cr₀	44	92	7	4000	StCu	8	-	8	·
Holyhead	20	989·2	+1	SSW	5	01+	45	97	6	1500	Nb	10	-	10	992·8	+4	SW	5	C+	49	85	8	2500	StCu	8	-	8	4
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	994·1	+5	S'E	3	bc	42	85	8	2500	Nb	2	CSt	6	·
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	995·1	+5	SSE	3	C	41	92	7	1500	St	8	-	8	·
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	995·8	+3	S	2	c	43	92	6	2500	Nb	4	ASt	8	4
Spurn Head	39	995·7	+1	SW'S	4	bc+	45	92	7	-	-	0	ASt	4	996·7	+1	S'W	5	c	46	92	6	2500	CuNb	6	CSt	10	·
Birmingham (Edgbaston)	585	•	•	•	•	•	•	•	•	•	•	•	•	•	997·9	+4	SSW	3	cr₀	43	97	8	2500	Nb	3	ASt	9	·
Cranwell	238	996·5	+2	S'E	4	c+	42	92	7	4000	StCu	2	CSt	8	997·6	+1	S'E	3	bc-	41	97	7	4000	StCu	5	Ci	8	4
Gorleston	14	1001·5	+2	SSW	5	b	47	92	7	-	-	0	-	0	1001·1	0	S'E	5	c	49	92	6	2500	Nb	3	ASt	8	·
Valentia (Cahirciveen)	30	983·7	+2	SW	3	bc/RR+	47	92	8	•	St	5	-	5	992·4	+6	SW	5	bc	48	75	8	2500	Cu	4	-	4	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	994·1	+8	W	3	b	46	85	8	1500	CuNb	2	-	2	4
Pembroke (St. Ann's H.)	150	988·4	-1	SW	6	bc-	50	97	8	1500	StCu	5	-	5	995·1	+5	WSW	4	bc|b	51	92	8	1500	CuNb	4	ACu	6	·
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	997·7	+6	SW'W	2	o|r	44	85	8	2500	Nb	10	-	10	·
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	997·8	+4	S	3	cr₀	42	97	9	2500	Nb	9	-	9	·
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	999·3	+1	S	2	cr₀	44	97	8	1500	Nb	8	-	8	·
S. Farnborough	257	•	•	•	•	•	•	•	•	•	•	•	•	•	998·8	+1	S	1	c|r	44	97	8	2500	StCu	6	ASt	9	·
London (Kew Obsy.)	18	•	•	•	•	•	49	•	•	•	•	•	•	•	999·6	+3	SW'W	2	c r-	46	92	6	2500	Nb	7	ASt	10	·
Croydon	244	999·8	0	SSW	4	C+	48	85	7	1500	St	6	ASt	8	999·6	0	WSW	4	cr-	48	92	7	800	Nb	10	-	10	·
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1000·1	-1	S	4	c|r	48	97	8	800	Nb	6	ASt	9	4
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1000·0	-1	S	5	bc	49	92	7	4000	St	7	-	7	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1000·7	0	S'E	5	orr	49	97	7	800	Nb	10	-	10	·
Lympne	359	1002·0	0	S'W	4	b	47	85	7	1600	St	1	-	1	1000·5	-1	S	2	or+	47	97	6	800	Nb	10	-	10	·
Scilly (St. Mary's)	163	992·4	+3	SW'W	6	cr₀	47	85	7	2500	Nb	9	-	9	999·2	+5	W'S	6	bc	50	85	7	4000	Cu	3	-	3	7
Falmouth (Pendennis)	200	992·4	-1	SW'W	7	bc+	51	75	7	4000	CuNb	5	-	6	1000·5	+7	W	5	bc+	48	75	7	4000	CuNb	6	-	6	4
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1000·6	+10	WSW	5	bc+	50	65	7	4000	CuNb	6	-	8	5
Portland Bill	37	995·0	-1	SSW	7	c/PR+	50	85	7	1500	StCu	8	-	8	999·1	+6	W	6	c-	50	85	8	1500	StCu	8	-	10	5
Southampton (Calshot)	10	998·4	-1	S'W	6	bc	52	75	7	1500	Cu	2	ACu	3	999·2	+2	SW	3	cr₀r₀	47	85	7	1500	Nb	7	ASt	10	5
Dungeness	30	1001·8	+4	SSW	4	b-	51	85	8	-	-	0	-	0	1000·9	-2	SSW	3	orr	48	97	7	1500	Nb	10	-	8	6
Guernsey (St. Peter Port)	173	999·8	-2	SSW	4	c+	52	85	7	2500	StCu	8	-	8	1003·8	+8	WNW	4	c|pr₀	48	85	7	2500	StCu	8	-	8	·

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 22nd to 9h. 23rd °F.	Temperature. Max. 9h.-17h. 23rd °F.	Rainfall.† Night 17h.-9h. 22nd-23rd mm.	Rainfall.† Day 9h.-17h. 23rd mm.	Sunshine. Sunrise to Sunset, 23rd hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	or₀	47	48	—	1	0.7
Douglas (I. o. M.)	oR	oPR	46	49	4	13	0.0
Llandudno	cr	rc	47	51	3	1	0.2
Colwyn Bay	roc.	corro	43	51	3	4	0.2
Rhyl	c	cr	47	53	1	3	0.0
Wallasey	cr₀	iRHc	46	50	Trace	4	0.2
Southport	cor	oro	*45	50	-	2	0.0
Blackpool	op	oor	46	50	0.2	3	0.0
Morecambe	cerc	cerrc	46	52	-	1	0.0
Ilkley	om	oro	44	50	0.4	7	0.0
Cleethorpes	bo	oro	45	51	1	6	1.0
Mablethorpe	berbc	becrv	46	52	1	2	0.0
Skegness	ocb	oprb	46	51	-	1	0.5
Aberystwyth	bc	bccro	48	51	6	2	0.3
Bath	irc	ircbc	48	54	10	6	1.5
Cheltenham‡	or	orbc	47	52	8	5	0.8
Leamington Spa	or	orbc	46	53	9	3	0.5
Lowestoft	cbcc	rid	49	53	0.2	1	1.8
Harwich & Dovercourt	dbc	ocr	47	52	1	5	1.8
Maldon	cir	crc	48	53	0.3	5	0.0
Ilfracombe	opc	P	48	53	9	7	0.3
Bude	cpr	cpr	47	54	3	2	1.6
St. Ives	pr	pr	46	51	11	2	0.7
Penzance	cir	cir	49	53	8	1	1.6
Paignton	bcaRr	oprbcb	48	54	21	9	2.9
Torquay	oRq	Rph₀bc	49	55	23	5	2.7
Jersey	rqc	bcrq	50	55	3	7	1.6
Weymouth	pc	bcbP	52	55	2	4	
Bournemouth	odor	rbcr	49	55	3	6	1.1
Ventnor	or	orbou	49	54	1	4	0.8
Portsmouth (S'thsea)	or	opbc	51	55	4	4	1.3
Bognor Regis	cir	bciR	50	54	1	5	0.8
Littlehampton	ccp	bcp	51	55	1	5	0.4
Worthing	cor	orcrc	51	54	1	5	0.6
Brighton	cr	rbrhc	51	55	1	7	0.0
Eastbourne	qcro	qcros	52	55	1	19	0.1
Hastings‡	coror	orcopc	50	55	2	3	0.0
Folkestone	bccor	oirhc	51	54	-	4	0.1
Dover	bccor	ropcl	52	54	1	5	0.4
Deal	cbcor	oro	51	56	-	5	0.8
Tunbridge Wells	orr	orrlh	48	53	5	18	0.0
Ramsgate	bcor	rorlrbc	50	55	1	7	0.6
Margate	bccr	cprc	50	55	1	3	0.7
Southend	cor₀	qRrl	48	52	0.4	9	0.0

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

* Information not usually received.

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

‡ For code see page 1.

§ See footnote page 3.

‖ 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.24840 MONDAY, 25th NOVEMBER 1929.

Observations at 13h. G.M.T. 24th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Larwick	994.6	+3	SE	3	cp	49	85	7	1500	CuNb	5	Ast	9	•
Stornoway	995.5	+6	S	5	c-	49	92	6	4000	CuNb	9	-	9	•
Wick	990.9	+4	S	5	c	47	85	7	1500	StCu	6	CiSt	8	•
Tiree	992.2	+10	WSW	6	c-	50	78	7	2500	CuNb	6	CiSt	8	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	994.1	+4	SSE	5	bc	48	75	7	1500	Cu	1	Ci	4	•
Malin Head	993.2	+9	SSW	6	b	49	65	7	4000	Cu	1	ACu	2	•
Renfrew	993.3	+7	SW	6	c-	48	82	6	1500	Nb	3	Ast	9	•
Edinburgh (Inchkeith)	993.4	+5	SSW	5	c-	47	88	8	1500	St	10	-	10	•
Lenchars	994.8	+5	SSW	3	c-	48	88	8	1500	Nb	7	Ast	10	•
Eskdalemuir	997.2	+7	SW'S	3	c-	44	92	6	1500	Nb	8	Ast	10	•
Tynemouth	998.9	+5	SSW	3	c-	48	85	6	1500	CuNb	8	-	8	•
Blackrod Point	991.0	+5	S	5	c	49	68	8	•	CuNb	8	-	8	•
Donaghadee	995.5	+8	SW	5	b	50	68	8	-	-	0	-	0	•
Birr Castle	996.0	+2	SW	4	c	49	75	8	-	-	0	CiSt	9	•
Holyhead	1000.8	+7	SW	6	bc⊕	51	75	8	2500	Cu	1	Ast	2	•
Liverpool (Bidston) ...	1001.1	+6	SW	6	b	50	65	7	2500	StCu	2	-	2	•
Chester (Sealand) ...	1001.1	+6	SW	4	bc-	53	65	7	2500	StCu	3	-	3	•
Harrogate	1001.0	+5	SSW	3	bc	50	65	6	2500	Nb	6	ACu	7	•
Spurn Head	1002.0	+3	WSW	3	bc	50	65	7	4000	StCu	4	Cu	7	•
Birmingham (Edgbaston)	1004.6	+5	SW	3	bc	49	75	8	1500	StCu	5	-	5	•
Cranwell	1003.7	+6	SSW	4	bc	50	75	7	5700	StCu	5	Ci	7	•
Gorleston	1003.6	+2	SSW	3	bc	50	82	6	5700	Cu	5	Ci	7	•
Valentia (Cahriveen)	999.7	0	S	4	bc	52	75	8	1500	Cu	3	CiSt	7	2
Roches Point	999.0	+3	SW	5	CH(⊕)	51	82	7	1500	CuNb	3	-	9	•
Pembroke (St. Ann's H.)	1002.1	+5	SSW	4	c+	54	97	7	4000	Cu	4	CiSt	10	•
Ross-on-Wye	1004.8	+6	SSW	3	c⊕	50	96	7	4000	Cu	4	CiSt	8	•
Leafield	1005.4	+8	SSW	4	bc/p	45	75	8	5700	CuNb	6	CiSt	7	2
Winchester (Worthy Dn.)	1007.2	+6	WSW	4	bc	53	65	8	2500	Cu	3	CiSt	7	2
S. Farnborough ...	1007.0	+7	WSW	4	bc+	53	65	8	4000	Cu	1	Ast	3	2
London (Kew Obsy.) ...	1007.3	+9	WSW	4	b	51	65	6	-	Cu	4	CiSt	1	2
Croydon	1007.3	+7	W'S	4	b-	53	65	6	2500	Cu	1	Ci	2	2
Shoeburyness	1006.6	+9	WSW	4	bc	51	75	6	-	-	0	CiSt	5	•
Cleaton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1006.1	+7	SW'W	4	bc/c	51	75	6	-	-	0	ACu	4	2
Lympne	1007.1	+9	WSW	4	b-	51	75	8	1500	Cu	1	Ci	2	2
Scilly (St. Mary's) ...	1004.0	+2	SSW	6	c	53	85	7	4000	Cu	3	CiSt	8	•
Falmouth (Pendennis)	1005.9	+4	SW'W	6	c+	54	78	7	4000	Cu	2	CiSt	9	•
Plymouth (Mt. Batten)	1006.4	+3	SW	6	c+	53	85	7	2500	Nb	1	CiSt	9	•
Portland Bill	1006.1	+4	WSW	7	bc/c	55	78	8	2500	CuNb	7	-	7	•
Southampton (Calshot)	1008.5	+7	WSW	4	bc/p	53	85	8	2500	CuNb	7	CiSt	7	0
Dungeness	1007.5	+6	WSW	4	bc	52	78	8	-	-	0	Ci	4	•
Guernsey (St. Peter Port)	1011.0	+4	SW	4	bc+	55	78	6	4000	StCu	4	ACu	6	•

Observations at 18h. G.M.T. 24th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Larwick	996.6	+2	SE	3	c	49	85	7	1500	StCu	4	Ast	8	•
Stornoway	995.5	+6	SW	4	c-	45	85	7	-	-	0	-	0	4
Wick	995.3	+6	SSW	3	c	46	92	8	1500	Nb	6	CiSt	8	4
Tiree	992.8	+2	SW	6	c	47	85	8	2500	StCu	3	-	3	6
Nairn	997.0	•	WSW	1	bc	43	85	8	2500	Cu	4	-	4	1
Aberdeen	998.6	+7	SSW	3	b	46	85	6	-	-	0	ACu	1	1
Malin Head	997.2	-1	SSE	5	b	45	85	7	5700	StCu	1	-	1	4
Renfrew	999.1	+3	SE	2	b	41	92	8	-	-	0	-	0	•
Edinburgh (Inchkeith)	1000.0	+5	SSW	4	bc	46	85	7	1500	St	3	-	3	0
Lenchars	999.2	+6	SSW	1	b-	43	85	8	2500	St	2	-	2	1
Eskdalemuir	1001.6	+4	SSE	1	b	38	92	7	4000	StCu	1	-	1	4
Tynemouth	1003.2	+5	SW	2	bc	46	85	6	2500	Cu	4	-	4	2
Blackrod Point	989.8	-1	S	4	c	50	75	7	•	CuNb	10	-	10	6
Donaghadee	996.3	+1	SW	2	b+	48	85	8	-	-	0	-	0	1
Birr Castle	992.4	-4	S	2	b+	48	85	7	2500	Nb	10	-	10	•
Holyhead	1000.5	0	SSE	4	b/p	50	92	7	2500	CuNb	1	-	1	3
Liverpool (Bidston) ...	1002.2	+1	SSE	4	b/p	46	85	8	2500	StCu	2	-	2	•
Chester (Sealand) ...	1002.8	0	SSE	3	bc-	43	92	7	1500	St	3	-	3	•
Harrogate	1004.4	+3	SSW	2	b	43	85	7	-	-	0	-	0	•
Spurn Head	1006.0	+2	SW	3	bc-	44	92	7	5700	StCu	3	-	3	2
Birmingham (Edgbaston)	1006.0	+1	SSE	3	b	46	85	7	1500	Cu	2	-	2	•
Cranwell	1007.1	+4	S'W	3	b	42	85	7	-	-	0	ACu	1	•
Gorleston	1008.9	+6	SSW	3	b	47	92	6	-	-	0	-	0	0
Valentia (Cahriveen)	983.6	-18	ESE	5	oRR	49	85	5	1500	Nb	10	-	10	4
Roches Point	992.2	-7	S	5	orr	51	92	7	900	Nb	10	-	10	6
Pembroke (St. Ann's H.)	993.3	-3	SSW	6	c	53	92	7	1500	StCu	8	ACu	10	5
Ross-on-Wye	1005.1	0	S	4	b	49	75	7	-	-	0	Ast	2	•
Leafield	1006.8	+1	SSE	4	b	43	92	7	-	-	0	CiSt	2	•
Winchester (Worthy Dn.)	1008.5	+1	S	3	bc-	48	92	7	-	-	0	Ast	4	•
S. Farnborough ...	1008.6	+1	SSE	2	c+	47	85	6	2500	StCu	3	Ast	9	•
London (Kew Obsy.) ...	1008.7	+2	S	2	b-	47	85	5	-	-	0	Ast	9	•
Croydon	1010.0	+3	SSW	4	bc-	47	85	5	2500	StCu	4	-	4	•
Shoeburyness	1010.8	+5	SSW	2	b	43	92	7	-	-	0	-	0	•
Cleaton-on-Sea	1010.0	+5	SW	3	bc	47	85	7	4000	St	3	Ci	5	3
Felixstowe	1010.9	+5	SSW	2	b	46	92	7	-	-	0	-	0	•
Lympne	1011.3	+4	SW	3	b	45	85	7	-	-	0	Ci	1	3
Scilly (St. Mary's) ...	998.7	-5	SE'S	7	oRR	52	97	7	2500	Nb	10	-	10	7
Falmouth (Pendennis)	1001.9	-4	S	7	oR	53	92	5	2500	Nb	10	-	10	5
Plymouth (Mt. Batten)	1004.5	-2	S	6	⊕	53	97	6	500	Nb	10	-	10	5
Portland Bill	1006.4	+1	S	5	c+	54	85	8	1500	StCu	10	-	10	5
Southampton (Calshot)	1005.4	+1	S	4	bc-	52	85	7	2500	StCu	3	Ast	5	5
Dungeness	1011.3	+5	SSW	3	bc+	52	85	8	2500	StCu	5	-	5	3
Guernsey (St. Peter Port)	1010.0	-2	SW	4	oc	55	85	5	2500	Nb	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. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 HOURS ENDED 9h.			YESTERDAY.						TO-DAY.		
Kew	18	cmr b	bcbm.	bcrrm	52	47	43	0.3	6	4.0	*	*	6
Croydon	244	crr b	bbcm.	bcrr	53	47	44	0.2	15	3.7	*	*	6
Greenwich (Royal Obsy.)	149	cpb	bc	dfrrdf	51	50	33	0.3	6	3.3	65	90	6
City (Bunhill Row) ...	86	*	*	*	*	*	*	*	*	1.7	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	56	47	39	5		3.2	40	83	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	3.2	*	*	*
Camden Square	116	c	c	*	51	50	*	0.5	5	*	*	93	*
Kensington Palace ...	80	obc	cbc	*	53	49	42	-	5	*	(At 18h.) T.T.	92	*
Hampstead Observatory ..	450	*	*	*	51	47	42	0.5	6	3.7	*	96	*

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

25th & 26th NOVEMBER, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.34	11.40	15.46
	7.36	11.40	15.45
Greenwich	7.36	11.42	15.48
	7.37	11.42	15.47
Wick	8.26	11.59	15.33
	8.28	12.00	15.31
Valentia	8.19	12.28	(6.37
	8.20	12.29	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 tstounder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r) = "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

SYMBOLS.

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

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.0	16h. 24th	<0.3	1-5h 25th

Kew Observatory

Max.	Time.	Min.	Time.
0.3	17h. 24th	<0.1	23h. 24th to 7h. 25th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 24th 17h. 0m. to 25th 6h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.30	2.3	15
δ Ursae Minoris	13.20	1.51	14

CODE FOR STATE OF GROUND.

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

SEA DISTURBANCE.

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

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

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

‡ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

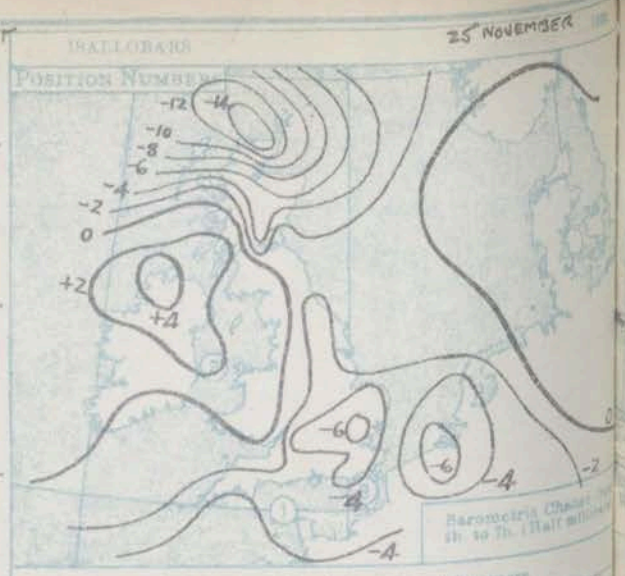
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 24th	18h.-18h. 24th	18h. 24th to 1h. 25th	1h.-7h. 25th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. 18h. 24th-7h.	MIN. on Grass	RAINFALL.† Day. 7h.-19h. am	began.	Night. 18h.-7h. mm.	began.	SUN 24th Hours.
Lerwick	cbr	cbr	cbcbr	becbr	49	~~47~~ 47	•	Tr.	<8.00	Tr.	<21.00	0.0
Stornoway	rd	cbrbc	crc	p	49	44	•	6	<8.00	1	<21.00	0.0
Wick	c	obrc	bbc	cprc	48	45	•	0.2	17.30	0.2	5.30	•
Tiree	rc	bc	bc	rRc	51	47	42	3	<8.00	3	1.30	1.8
Nairn	becbc	bcpr	bcw	bc	48	40	•	0.2	14.30	-	-	0.0
Aberdeen	cbc	cbrbcb3	bz	beeireq	49	41	36	Tr.	14.30	1	3.30	1.8
Kalin Head	crRbc	b	bbccir	cirbc	49	45	•	3	<8.00	1	22.00	4.1
Renfrew	bcciirrq	cbcb	bbc	bbcipb	49	40	36	2	9.00	0.1	5.30	0.3
Edinburgh(Inchkeith)	bcc	oirebc	bcco	ocbc	50	43	36	Tr.	17.30	-	-	2.8
Leuchars	bcebe	cbcbcb	bbc	bcc	49	38	35	Tr.	17.30	-	-	2.1
Eskdalemuir	bccrr	crrcbw	bwc	coddoidc	45	37	32	9	9.00	3	2.30	0.0
Tynemouth	ocq	cbc	bcoq	oir	49	43	39	4	-	1	2.30	•
Blacksod Point ...	bc	btlc	bcqbc	bqbc	51	47	•	2	•	5	•	•
Donaghadee	irbc	b	irbc	bcb	60	47	•	1	9.00	3	22.00	•
Birr Castle	crbcc	cbcc	Rqc	cbc	51	42	33	04	<8.00	8	<21.00	3.4
Holyhead	brbcb	cbcbr	rr	c	52	50	46	Tr.	<8.00	2	<21.00	2.6
Liverpool (Bidston)...	bcb	b	bcorr	c	50	45	41	-	-	2	22.00	3.2
Chester (Sealand) ...	bcprm	bc3m	bccRr	rreqrm	53	40	36	02	9.00	6	22.00	2.9
Harrogate	cbc	bcb	bbecw	corre	50	40	35	-	-	4	?	2.6
Spurn Head	cbc	bc	ccorr	ORqor	50	43	•	-	-	6	24.00	3.1
Birmingham(Edgbaston)	cb	bcb	borr	orr	50	44	40	-	-	17	22.00	3.1
Cranwell	bc	bcb	borm	orm	51	38	34	-	-	4	24.00	4.1
Gorleston	cqbc	bcb	bbcoq	orrq	51	43	39	1	<8.00	6	24.00	2.3
Valentia(Cahirciveen)	bccbc	coRr	RRbcb	bec	52	46	41	5	16.30	9	<21.00	0.1
Roches Point	bccirH	cirerr	orrep	cpe	52	49	•	4	9.00	12	<21.00	•
Pembroke(St.Ann's H.)	becm	cmq	ORq	cm	55	51	•	-	-	18	<21.00	1.3
Ross-on-Wye	bbcbbc	cbccb	bccoRR	rrorc	51	49	45	0.3	9.00	27	<21.00	2.7
Leafield	bir bcb	bc	bcoRR	oRir	49	42	40	0.3	<8.00	17	22.00	2.9
Winchester (Wortly Dn.)	crbc	bcebc	~~bccoRR~~	~~oRRrc bccoRR~~	53	47	43	Tr.	<8.00	31	<21.00	4.5
S. Farnborough ...	ircevb	bc	cbcorR	orr	53	47	41	0.1	<8.00	18	22.00	4.3
London (Kew Obsy.)...	cmr3b	bcbm	bmcqr	cqrrm	52	47	43	0.3	<8.00	6	22.00	4.0
Croydon	crr3b	bbc3m	bmcorr	orrcr	53	47	44	02	<8.00	15	22.00	3.7
Shoeburyness	cpbc	bcb	bcodd	odd	52	42	40	04	<8.00	2	22.00	3.7
Clacton-on-Sea ...	bccpbc3	bc3	bc	bccpc	51	46	41	2	<8.00	4	2.30	2.8
Felixstowe	rrcpbc3	bc3b	borrm	orrm	51	46	42	3	<8.00	4	24.00	3.5
Lympne	oRcrbc	b	crorrm	oRrrm	51	44	36	2	<8.00	3	<21.00	3.7
Scilly (St. Mary's) ...	bcbc	corr	orrc	c	54	49	•	3	<8.00	12	<21.00	0.8
Falmouth (Pendennis)	bccq	coRq	oRrqm	oRrmq	54	52	•	2	16.30	37	<21.00	3.3
Plymouth(Mt.Batten)	cpRhbq	cqm	ORRq	pRRqm	55	52	50	1	<8.00	32	<21.00	2.4
Portland Bill	ciPc	c	orrz	oRRz	55	52	•	2	11.00	20	<21.00	•
Southampton(Calshot)	crrcbc	bcyjbcbc	pG Rq	oRrrrq	64	51	49	0.1	<9.00	18	<21.00	4.0
Dungeness	orrcbc	bcrbc	crorr	corror	53	51	•	2	<8.00	7	<21.00	•
Guernsey	bcbc	bccor	cpcor	orror	55	53	62	1	<8.00	16	<21.00	4.0

† Trace = rain has fallen, but amount less than 0.05 in.



Observations from Cross Channel Steamers.

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

GENERAL INFERENCE.

A deep depression off Western Scotland is moving northeastwards while a secondary at the mouth of the Channel is moving eastward. Weather will be unsettled generally with rain in the eastern half of the country first and showers and bright intervals spreading from the West later.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 25th November, 1929.	Further Outlook.
1. S.E. England ▼ 2. E. England ▼ 3. E. Midlands	Strong southerly or southeasterly winds, reaching gale force at times, veering later; dull, rainy at first, brighter intervals, occasional showers, later; mild today, a little cooler tomorrow.	Brighter intervals with occasional showers and temperature falling a little.
4. W. Midlands 5. S.W. England ▼ 6. South Wales ▼	Fresh southwesterly winds, strong at times, veering later; cloudy with bright intervals but occasional showers; moderate temperature.	▼ South Cone flying all coasts. Hoisted at 8h.45m. 23/11/29 in districts 1 and 2; at 14h.35m. yesterday in districts 6,7,19 and 20; and at 18h.45m. yesterday in remainder of districts.
7. North Wales ▼ 8. N.W. England ▼ 9. N. Midlands	Fresh southerly winds, veering later; cloudy with bright intervals but occasional showers; moderate temperature.	
10. N.E. England ▼ 11. S.E. Scotland ▼	Fresh or strong southerly or southeasterly winds; cloudy, some rain at first, brighter intervals; occasional showers, later; mild.	
12. S.W. Scotland & Isle of Man	As 7 - 9.	
13. N.W. Scotland ▼ 14. Mid-Scotland 15. N.E. Scotland ▼	Strong southerly winds, reaching gale force at times, veering later; cloudy with bright intervals but occasional rain or showers; mild at first, a little cooler tomorrow.	
16. Orkneys and Shetlands ▼	Strong to gale southerly to southwesterly winds; cloudy, occasional rain or showers; mild.	
17. N.W. Ireland 18. N.E. Ireland ▼ 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	As 4 - 6.	

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

Pc 148/998 m.41 3/2008. 14100. 11/29.

† For code see page 1

SYNOPTIC CHART FOR 7h. MONDAY, 25TH NOVEMBER, 1929.

Scale – 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022

35 43 Drizzle +0

0 41 Cloudy +1

15 39 Rain +0

42 43 Showers +5

Barometer Rising

LOW

15 45 O'cast E 3

Barometer Falling Rapidly

21 50 Showers

42 49 Cloudy

27 50 Cloudy

35 46 Fine

15 48 Fine

15 48 Cloudy

10 51 Cloudy

Rising Slowly

TUSCANIA 15 47 Sea 52 Cloudy

CEDRIC 21 50 Sea 48 Fine

10 47 Cloudy

5 43 Fine

10 51 Cloudy

5 52 Cloudy

Barometer Steady

15 54 Rain

35 51 Rain

21 54 Rain

35 58 Heavy Rain

15 55 Heavy Rain

42 54 Cloudy

10 51 Cloudy

27 55 Heavy Rain

Barometric Changes

21 45 Cloudy

0 34 O'cast

46 Fine 5

46 O'cast 10

Slight

21 46 O'cast

21 50 Cloudy

2 54 Cloudy

10 55 Cloudy

21 55 Cloudy

21 55 Cloudy

21 55 Cloudy

21 66 Fine

Falling

36 0 Cloudy

34 Thick Fog 2

2 37 Fine

42 52 Fine

HIGH

21 54 Cloudy

48 Cloudy 10

15 48 Cloudy

39 10 Fine

EXPLANATION.

ISOBARS. 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. ≡ mist. ≈ fog. ∴ rain falling. ⚡ thunder. ℞ thunderstorm. ∞ drizzle.

SEA DISTURBANCE. 0 Calm. 1 Smooth. 2 Slight. 3 Moderate. 4 Rough. 5 Very Rough.

ICELAND barometric change from 8 a.m. to 7 p.m. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. MONDAY 25th NOVEMBER 1929. No. 329.

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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	34	9980	+2	S'E	2	K/p	47	92	7	1500	Cu Nb	4	-	4
Stornoway	20	9918	-3	S	4	C	*	*	6	*	*	*	*	10
Wick	81	9962	-2	S	4	b-	46	85	8	2500	St	2	-	2
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	33	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	27	*	*	-	*	*	*	*	*	*	*	*	*	*
Malin Head	81	9779	-12	SE	7	cr	49	85	6	2500	Nb	6	Fst	10
Renfrew	39	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	9957	-6	SE	3	0	45	85	7	2500	St	10	-	10
Leuchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	704	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	9989	-4	S	3	0	47	92	7	1500	Nb	10	-	10
Blacksod Point	18	9961	-16	S	8	bc	51	76	7	*	Cu	4	-	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	23	9870	-18	SSE	7	c/r	53	92	6	2500	St	8	Fst	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	20	1004·8	-3	S'W	7	orr	47	97	6	4000	Nb	10	-	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	226	1005	-6	SSE	4	Or+	46	97	5	450	Nb	10	-	10
Gorleston	14	1007·3	-4	S	6	Or6	47	92	6	1500	Nb	10	-	10
Valentia (Cahirciveen)	30	9901	+4	SW	5	bc/p6	49	75	8	*	St	6	-	5
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	9936	-1	SW	5	c/r	54	85	7	1500	Cu Nb	6	Fst	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	52	*	*	*	*	*	*	*
Croydon	344	1003·7	-5	S	7	orr	50	97	7	450	Nb	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1007·6	-5	SSE	5	Or+	50	92	6	800	Nb	10	-	10
Scilly (St. Mary's)	163	9918	+3	SW'S	6	C	53	97	7	4000	Sc	9	-	9
Falmouth (Pendennis)	220	9929	-3	SW'S	9	ORR	54	97	6	2500	Nb	10	-	10
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	9917	-9	SSE	9	ORR	54	92	6	1500	Nb	10	-	10
Southampton (Calshot)	10	1001·2	-8	S'E	7	OR-	52	97	6	800	Nb	10	-	10
Dungeness	20	1007·2	-4	S	5	Orr	52	85	7	1500	Nb	10	-	10
Guernsey (St. Peter Port)	172	1002·2	-6	S	5	clr	55	85	6	2500	Sc	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	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	995.1	-4	SE	4	c/p	48	85	7	1500	Cu Nb	4	Ast	9
Stornoway	978·3	-11	S	5	bc/pc	50	85	7	4000	Cu Nb	4	-	7
Wick	985·5	-14	SSE	8	c	49	85	7	1500	Nb	6	Ast	10
Tiree	977.5	0	S'W	8	bc	48	76	8	2500	St Cu	3	Ast	4
Nairn	983.1	*	-	0	bc	50	76	8	4000	Cu	4	-	4
Aberdeen	989.1	-6	SE'S	6	c	50	85	7	1500	Nb	9	Ast	10
Malin Head	979·7	+5	S	7	b	46	65	8	4000	St Cu	2	-	2
Renfrew	988·3	+3	SSW	4	b	48	85	8	4000	St Cu	1	Ci	2
Edinburgh (Inchkeith)	978.7	-7	SW	4	bc	52	85	8	4000	Cu	5	-	5
Leuchars	988·2	-2	SSE	4	c	49	85	7	4000	St Cu	7	ACu	9
Eskdalemuir	989.7	+1	SSW	5	c	47	85	6	1600	St Cu	5	Ast	8
Tynemouth	990.9	-2	S	3	c/p	51	92	6	1500	Nb	8	-	4
Blacksod Point	979.3	+6	NNW	5	bc	48	75	8	*	Cu Nb	4	-	2
Donaghadee	986·4	+2	SW	4	b	47	75	8	4000	Cu	2	-	6
Birr Castle	985·4	+1	S	2	bc+	43	85	7	4000	St Cu	6	-	10
Holyhead	990.8	+2	SW'S	3	c	51	85	7	-	-	0	Cist	8
Liverpool (Bidston)	991·4	+1	S'E	3	c	51	85	8	2500	Nb	8	-	8
Chester (Sealand)	991.8	+1	S'E	3	c	51	85	6	2500	St	4	Ast	8
Harrogate	992·7	-1	S	2	c	50	97	5	2500	Nb	7	Ast	9
Spurn Head	994·4	0	SSW	6	c/r	50	97	7	4000	Nb	7	Ast	10
Birmingham (Edgbaston)	994·0	-1	S	4	or-	54	97	7	800	Nb	10	-	10
Cranwell	995·1	-2	S'E	5	c	52	92	8	800	Nb	10	-	10
Gorleston	1000.5	-5	S	7	or.r.	51	92	6	800	Nb	10	-	10
Valentia (Cahirciveen)	984.5	+1	S	3	c	47	85	8	2500	St Cu	3	Ast	10
Roches Point	987.2	-1	SW	4	c	51	85	7	1500	Cu Nb	9	-	9
Pembroke (St. Ann's H.)	989.7	-1	SSW	2	c	52	85	7	2500	St Cu	10	-	10
Ross-on-Wye	993·3	0	SW	2	or.r.	52	97	6	1500	Nb	10	-	10
Leafield	994.6	-4	S'E	6	or.	53	97	8	800	Nb	10	-	10
Winchester (Worthy Dn.)	997.9	-2	S	6	orr	54	97	7	800	Nb	10	-	10
S. Farnborough	997.3	-3	S	5	orr	54	92	6	460	Nb	10	-	10
London (Kew Obsy.)	998·3	-4	SSW	5	or.r.	54	92	6	800	Nb	8	Ast	10
Croydon	999.4	-3	SW'S	5	or.r.	54	92	7	800	Nb	9	Ast	10
Shoeburyness	1001·2	-4	SSW	6	odd	52	92	7	800	Nb	10	-	10
Clacton-on-Sea	1001·1	-6	S	6	cr	51	92	7	4000	Nb	8	-	8
Felixstowe	1001.6	-2	S'E	6	orr	51	92	6	460	Nb	10	-	10
Lympne	1001.5	-4	S	6	or.r.	52	92	6	800	Nb	10	-	10
Scilly (St. Mary's)	990·1	-2	S	3	c	51	97	7	4000	St Cu	9	-	9
Falmouth (Pendennis)	991·1	-4	S	4	or.r.	52	97	6	1500	Nb	10	-	10
Plymouth (Mt. Batten)	991.8	-4	SSW	5	ORR	53	97	6	220	Nb	10	-	10
Portland Bill	994.8	-3	S	7	OR-	56	92	6	1500	Nb	10	-	10
Southampton (Calshot)	998·0	-3	S	7	or.r.	54	86	6	460	Nb	10	-	10
Dungeness	1000.5	-6	S	6	or.r.	54	92	7	1500	Nb	10	-	10
Guernsey (St. Peter Port)	999.0	-4	S	4	OR-	55	92	6	1500	Nb	10	-	10

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h.-23 to 9h. 24th. °F.	Temperature. Max. 9h.-17h. 24th. °F.	Rainfall.† Night 17h.-9h. 23rd-24th. mm.	Rainfall.† Day 9h.-17h. 24th. mm.	Sunshine. Sunrise to Sunset. 24th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bbc	bc	42	47	0.2	-	3.6
Douglas (I. o. M.)	cb	bcb	44	51	5	2	2.4
Llandudno	c	bcpbc	45	52	2	0.1	2.0
Colwyn Bay	cbcc	cbcbc	44	54	4	0.3	1.9
Rhyl	bc	pb	42	54	1	0.2	3.0
Wallasey	bcb,b	bbc	43	53	1	Trace	2.8
Southport	cotc	cbcb	*41	52	1	0.3	2.3
Blackpool	cb	bc	41	51	3	0.1	1.9
Morecambe	cbcb	cbbc	41	48	2	-	1.8
Ilkley	c	c	42	49	0.3	+	1.1
Claethorpes	co	b	42	52	1	-	3.7
Mablethorpe	cbcb	bcb	43	51	Trace	-	4.5
Skegness	oc	b	45	51	0.5	-	3.7
Aberystwyth	rcbc	dbcq	44	52	5	Trace	1.8
Bath	b	bpcc	44	54	4	-	4.8
Cheltenham	p,bc	bcc	44	51	4	Trace	3.0
Leamington Spa	bc	bc	43	52	2	-	3.2
Lowestoft	cor	rpbcb	45	51	3	1	3.2
Harwich & Dovercourt	rbc	bbc	45	51	5	Trace	3.4
Maldon	rc	b	43	51	6	-	2.8

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Ilfracombe	bcc	co	46	54	4	-
Bude	cbc	o	43	54	5	-
St. Ives	c	beegr	44	55	10	0.3
Penzance	cbc	cor	45	55	11	0.5
Paignton	b	bcpco	45	56	9	Trace
Torquay	crptt	bcrpbc	45	56	9	0.1
Jersey	bc	c	48	56	6	-
Weymouth	bcpcb	bcc	42	55	6	-
Bournemouth	bcb	bbco	44	55	11	-
Ventnor	rbchr	rbc	45	54	9	0.1
Portsmouth (S'thsea)	bcp	bcr.	47	54	5	0.5
Bognor Regis	cbc	rbcbc	46	54	4	0.5
Littlehampton	bc	bcp bc	47	54	11	0.3
Worthing	cbc	bccrc	47	55	5	0.3
Brighton	rcb	bbc	47	53	3	-
Eastbourne	irobc	bcpcbc	47	54	3	-
Hastings	prcbc	bcopc	46	53	2	-
Folkestone	ocip	cbc	47	53	6	0.1
Dover	cr.oc	cb	46	55	9	Trace
Deal	rocr.	cb	46	52	8	Trace
Tunbridge Wells	ocbc	bc	43	53	4	-
Ramsgate	cbc	bcb	47	50	3	-
Margate	bc	bc	46	53	4	-
Southend	c	cb	44	52	3	-

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

† 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.24841. TUESDAY, 26th NOVEMBER, 1929.

Observations at 13h. G.M.T. 25th

STATIONS (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	990.7	-5	SE	6	or$_o$	49	92	7	1500	Nb	10	-	10	*
Stornoway	980.2	+2	S	7	bc-	50	65	8	5700	Cu	3	-	3	*
Wick	986.2	0	SSE	4	bc	50	85	7	2500	StCu	4	CiSt	7	*
Tiree	980.8	+2	S'W	6	c+	47	85	7	4000	StCu	6	CiSt	9	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	987.3	-2	S	3	bc	51	85	6	-	-	0	ACu	4	1
Malin Head	983.0	0	S	5	c	47	75	8	5700	StCu	9	CiCu	9	*
Renfrew	987.3	-3	ESE	3	bc+	51	75	6	2500	Cu	7	ACu	7	2
Edinburgh (Inchkeith)	988.0	-1	S	2	c+	51	75	7	800	StCu	7	ACu	9	*
Leuchars	987.2	-3	S	2	bc-	51	75	7	4000	St	2	Ci	6	2
Eskdalemuir	986.9	-5	SSE	1	c	47	85	7	1500	StCu	8	ASt	10	2
Tynemouth	987.4	-4	SE	1	or$_o$r$_o$	50	97	5	1500	Nb	10	-	10	*
Blackrod Point	981.0	+1	S	3	bc	50	65	8	*	CuNb	5	-	5	*
Donaghadee	983.4	-4	SW	2	bc+	50	75	8	4000	StCu	4	ACu	6	*
Birr Castle	982.7	-5	S	1	orr	47	92	6	2500	Nb	10	-	10	*
Holyhead	984.0	-12	E	4	cr$_o$	49	97	6	2500	Nb	9	ASt	9	1
Liverpool (Bidston)	985.5	-8	SE'E	4	od$_o$	50	85	4	2500	Nb	10	-	10	*
Chester (Seeland)	985.8	-9	SE'S	2	c	52	97	5	1500	St	9	-	9	2
Harrogate	988.2	-5	S	3	c	54	92	5	2500	Nb	8	ASt	9	*
Spurn Head	990.8	-2	SSW	5	cr$_o$	51	97	6	4000	CuNb	8	ASt	10	*
Birmingham (Edgbaston)	989.2	-6	S	5	9pr$_o$	54	82	7	1500	Nb	9	-	9	2
Cranwell	991.4	-5	S'W	4	d/r$_o$p$_o$	55	85	8	800	StCu	9	-	9	2
Gurleston	996.6	-4	S'W	7	o	53	92	6	1500	Nb	10	-	10	*
Valentia (Cahireiveen)	982.1	-2	SE'S	3	c	45	85	8	1500	St	8	ASt	10	2
Roches Point	981.6	-10	NE	3	orr	46	92	7	800	Nb	10	-	10	*
Pembroke (St. Ann's H.)	980.8	-10	SSW	7	c$_l$p$_R$	53	92	7	1500	CuNb	9	-	9	2
Ross-on-Wye	988.0	-6	S'W	5	cr	55	85	7	2500	Nb	9	-	9	2
Leafield	990.9	-3	S	6	or+	53	92	8	800	Nb	10	-	10	2
Winchester (Worthy Du.)	994.6	-2	SSW	7	.cr$_o$	54	97	7	450	Nb	9	ASt	10	2
S. Farnborough	994.3	-4	S'W	6	od$_o$d$_o$	55	92	6	450	Nb	10	-	10	2
London (Kew Obsy.)	994.9	-4	S'W	5	cr$_o$	56	85	6	800	Nb	9	ASt	10	2
Croydon	996.7	-2	SSW	5	or$_o$r$_o$	55	86	6	450	Nb	10	-	10	2
Shoeburyness	996.3	-4	SSW	6	c/d	55	85	8	2500	StCu	7	ACu	8	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	998.1	-4	SSE	6	d/r	52	92	7	1500	St	10	-	10	1
	998.6	-2	S	5	c	54	85	7	1500	StCu	9	-	9	2
Scilly (St. Mary's)	985.6	-4	WSW	10	c	50	75	7	4000	CuNb	8	-	8	*
Falmouth (Pendennis)	987.4	0	SW	9	bc-	53	65	6	4000	CuNb	7	-	7	*
Plymouth (Mt. Batten)	989.5	-1	SW	9[10]	b-	53	85	7	450	Nb	2	-	2	2
Portland Bill	992.0	-3	S	7	c-	56	85	7	1500	Nb	9	-	9	*
Southampton (Calshot)	993.5	-1	S'W	7	or$_o$	56	85	6	450	Nb	10	-	10	2
Dungeness	997.9	-3	S	6	c	55	86	8	2500	StCu	4	CuCu	10	*
Guernsey (St. Peter Port)	997.2	-1	SSW	4	c	58	85	7	1500	StCu	10	-	10	*

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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-9
Lerwick	986.1	-5	SE	5	or$_o$	49	97	7	1500	Nb	10	-	10	*
Stornoway	978.0	-2	S	6	c+	48	75	7	5700	Cu	8	-	8	4
Wick	982.2	-5	SSE	3	c	49	92	7	1500	CuNb	7	ASt	10	6
Tiree	979.4	-2	SW'S	3	bc-	44	85	8	4000	StCu	2	ASt	3	4
Nairn	980.9	*	W	1	c+	44	85	7	1500	St	8	-	8	*
Aberdeen	980.7	-10	E	3	or$_o$	48	97	4	1500	Nb	10	-	10	1
Malin Head	981.0	-1	S	1	bc	43	85	8	5700	StCu	2	ACu	3	1
Renfrew	981.8	-4	NNE	3	orr	44	97	5	800	Nb	10	-	10	*
Edinburgh (Inchkeith)	981.4	-6	E	2	orr	46	97	6	800	Nb	10	-	10	0
Leuchars	980.5	-8	E	1	orr	45	97	6	800	Nb	10	-	10	*
Eskdalemuir	978.5	-9	W	3	bc$_l$r	42	92	6	2500	CuNb	3	ASt	4	*
Tynemouth	981.1	-8	SW	4	bc$_l$r	53	75	6	2500	Cu	4	-	4	2
Blackrod Point	981.4	0	W	4	bc	47	75	8	*	Cu	4	-	4	5
Donaghadee	979.7	-2	W	2	pRR	44	85	7	1500	Nb	10	-	10	1
Birr Castle	983.6	+4	S	1	bc-	41	97	7	4000	StCu	5	ASt	7	*
Holyhead	979.4	-2	W	9	bcr$_o$	48	97	7	1500	Nb	6	-	6	6
Liverpool (Bidston)	980.3	-3	SW	7	c$_l$pr$_o$	47	75	8	1500	CuNb	9	-	9	*
Chester (Seeland)	981.8	-2	SSW	7	bcr	48	75	7	1500	Nb	5	-	5	*
Harrogate	984.4	-2	S'W	6	b-	50	65	7	-	-	0	-	0	*
Spurn Head	987.8	-1	SW	7	bc	53	75	7	2500	Nb	6	-	6	5
Birmingham (Edgbaston)	990.4	+4	S	6	b$_l$pr$_o$	48	75	8	1500	Cu	1	-	1	*
Cranwell	989.7	+3	SW'S	6	bc-	52	65	8	2500	StCu	4	-	4	*
Gurleston	995.3	+2	S'W	7	c	55	85	6	5700	Cu	3	ASt	10	4
Valentia (Cahireiveen)	981.9	+1	NE'E	2	bc	42	92	8	2500	St	2	CiSt	4	2
Roches Point	984.7	-1	SW	3	bc	47	97	7	1500	CuNb	7	-	7	6
Pembroke (St. Ann's H.)	986.8	+16	SW'W	9	cR	51	92	6	800	CuNb	10	-	10	8
Ross-on-Wye	990.9	+3	SW	6	b$_l$r	49	85	7	2500	CuNb	1	-	1	*
Leafield	992.9	+4	SSW	5	bc	48	75	8	2500	Cu	4	-	4	*
Winchester (Worthy Du.)	994.8	+5	SW'S	5	b$_l$pR	47	85	7	1500	Nb	2	-	2	*
S. Farnborough	994.4	+5	SW	6	cKQ	48	85	7	800	Nb	10	-	10	*
London (Kew Obsy.)	994.1	+4	SSW	5	bc$_l$r	53	75	7	800	St	3	ASt	6	*
Croydon	996.9	+4	SW'W	5	cr$_o$	53	75	6	800	Nb	6	ASt	8	*
Shoeburyness	997.3	+1	SSW	6	cr	54	85	8	1500	StCu	8	ASt	9	*
Clacton-on-Sea	996.5	-2	SSW	6	c	53	85	7	4000	CuNb	8	-	8	5
Felixstowe	997.2	+1	S'E	5	c	52	97	7	1500	StCu	10	-	10	4
Lympne	998.5	+1	SSW	6	c	54	85	7	800	St	5	ASt	10	*
Scilly (St. Mary's)	991.3	+3	SW	8	bc	51	85	7	4000	Cu	5	-	5	8
Falmouth (Pendennis)	992.5	+3	SW	8	cr$_o$	50	85	6	4000	CuNb	8	-	8	6
Plymouth (Mt. Batten)	993.7	+4	SW	8	c$_l$p$_R$	53	75	7	2500	CuNb	9	-	9	6
Portland Bill	995.2	+4	SW	7	bc-	52	85	8	1500	StCu	5	-	5	8
Southampton (Calshot)	997.4	+5	SW	6	b/PH	52	65	7	-	-	0	-	0	6
Dungeness	997.5	-2	SW	7	cr	55	92	7	1500	Nb	10	-	10	6
Guernsey (St. Peter Port)	1000.0	+6	SW	4	b	53	75	7	2500	Cu	2	-	2	6

LONDON OBSERVATIONS.

Day: 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 3h.-21h., other stations.

	Heights above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Sea.
		24 HOURS ENDED 9h.			YESTERDAY.						TO-DAY.		
Kew	18	cicm	cpqbc	bcpb	57	47	42	2	0.5	0.0	*	*	6
Croydon	244	crrom	or$_o$r$_o$c	cr$_o$krbc	56	46	40	3	6	0.0	*	*	6
Greenwich (Royal Obsy.)	149	cddc	cidpq	cbcpbb	57	46	35	0.5	Tr.	0.0	82	79	6
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	49	41	2		0.0	88	91	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	oro	ocorc	*	56	49	*	1	-	*	*	80	*
Kensington Palace	80	orc	cr.	*	57	48	40	1	0.3	*	(At 18h.) 63	79	*
Hampstead Observatory	450	*	*	*	55	44	36	2	0.5	0.0	*	86	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

9 HR. ended Th. G.M.T. 26h.

South Kensington			
Max.	Time.	Min.	Time.
0.6	11h. 25m.	<0.3	1h.-6h. 26th.

Kew Observatory			
Max.	Time.	Min.	Time.
0.1	9h. 25m.	<0.1	0h.-6h. 25th.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 25th 17h. 0m. to 26th 2h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.30	8.10	60
β Ursae Minoris	13.30	7.03	52

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (1/4 or more 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.

26th-27th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.36	11.40	16.45
	7.37	11.41	15.44
Greenwich	7.37	11.47	16.57
	7.39	11.48	15.56
Wick	8.28	12.0	16.31
	8.30	12.0	15.30
Valentia	8.20	12.28	16.36
	8.22	12.29	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.
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 tamder.
u ugly, threatening skys
v unusual visibility. w dew.
x hour 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 continued, 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.

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 }
4=mod. swell } Moderate
5=heavy swell } sea.
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

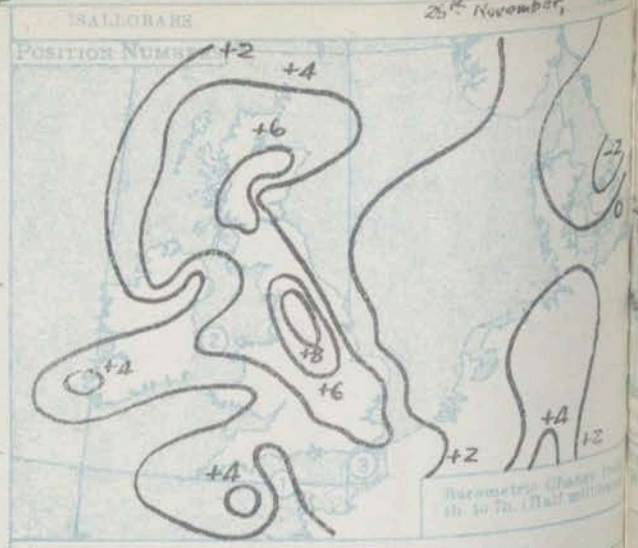
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	13 „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† Trace = rain has fallen, but amounts less than 0·1 m.m. * 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. 25th	18h.-18h. 25th	18h. 25th to 1h. 26th	1h.-7h. 26th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	SUN 25th Hours.
Lerwick	coir.	oir.	COIR.	coir	49	46	.	2	<9.00	9	<21.00	0.0
Stornoway	c	c	cprbcq	prbcq	51	45	.	Tr	-	2	1.30	2.2
Wick	bbc	c	r. Rr	prbc	50	40	.	-	-	18	<21.00	.
Tiree	bcc	cbc	pR bc	°ir.	48	44	39	-	-	2	<21.00	0.C
Nairn	bcq	bbc	cpr	pr bc	50	40	.	-	-	2	<21.00	4.2
Aberdeen	cbcz.	commer.	ororrm.	ocbc	51	40	38	Tr	17.30	11	<21.00	0.1
Kalin Head	bbcc	cbc	bcb	bbc	47	41	.	-	-	-	-	1.1
Renfrew	b,c	bcorrm.	rc, rc	c	52	42	39	6	16.30	3	<21.00	2.5
Edinburgh (Inchkeith)	bcc	bccoir.	Or rrcbc	bcc	53	41	40	3	15.30	8	<21.00	0.0
Leuchars	ccbc	bccr.rm.	oRRcrrc	cm.c	53	41	39	1	14.30	7	<21.00	0.9
Eskdalemuir	cm.c	cRqbc	bcorrc	cprc	48	37	36	10	13.30	6	<21.00	0.0
Tynemouth	coir	oir	bcOQqbc	bc	64	44	39	3	11.00	3	<21.00	.
Blacksod Point	pbc	bc	cp	pcq	50	44	.	1	.	6	.	.
Donaghadee	bc	coRr	iRb	bbc	53	39	.	12	15.30	4	<21.00	.
Birr Castle	cor.r	orr.ac	bcb	bxcr.c	47	36	26	1	<9.00	Tr.	5.30	0.0
Holyhead	cm.	iR, pr.q	bcc bc	r.cbc	52	45	42	8	12.30	9	<21.00	0.1
Liverpool (Bidston)	corF	rbcp.	bccR	r.q bc	53	44	40	5	11.00	3	<21.00	0.2
Chester (Sealand)	rDm.	cirKq	bcirq	rc(r)m.	55	46	40	5	9.00	2	<21.00	0.1
Harrogate	cir.	circbq	bQ	cbrb	54	43	38	4	9.00	1	4.30	0.0
Spurn Head	cpr	cprbcq	bcq	bc	54	46	.	0.3	11.00	-	-	0.0
Birmingham (Edgbaston)	opr	cbcpr.	bc pr	bc.o	55	44	41	3	<9.00	2	<21.00	0.0
Cranwell	cdcrc	cd.bc	bcb	bbc	56	45	42	0.2	11.00	-	-	0.0
Gorleston	or.ro	ocq	bbccq	cq	56	43	45	0.2	<9.00	-	-	0.0
Valentia (Cahirciveen)	cr.irr.	cpbccPRbc	bccpr	cpr	48	42	39	7	3.00	3	<21.00	0.2
Roches Point	corr	orrbc	cprhbc	bcpbc	52	43	.	14	11.00	4	22.00	.
Pembroke (St. Ann's H.)	cPRf	ciRq	cprqlr	bcqrlr	54	47	.	5	9.00	3	22.00	0.1
Ross-on-Wye	omrrq	rbccpq	p.qcirq	cq.cr	55	46	42	7	<9.00	5	<21.00	0.5
Leafield	oid.ir	orqc	bcprb	b bc	54	43	39	1	<9.00	0.5	<21.00	0.0
Winchester (Worthy Dn.)	orrm.r.	crqcPR	bbcp.rb	bcc	55	44	39	5	<9.00	Tr.	<21.00	0.0
S. Farnborough	orrq.	od.d.rrc	cbbcpbc	bcb	55	46	41	5	<9.00	0.2	22.00	0.0
London (Kew Obsy.)	cirm	cpqbc	bcpbbcp	bcb	57	47	42	2	<9.00	0.5	<21.00	0.0
Croydon	crro.r.om	or.rcm.	cr.bPRc	cRRbc	56	46	40	3	<9.00	6	<21.00	0.0
Shoeburyness	od.dcq	cqir	cqir.	bcb	56	45	42	0.2	<9.00	Tr.	<21.00	0.0
Clacton-on-Sea	cpc	c	cpbc	bc	53	48	44	0.2	<9.00	0.4	<21.00	0.0
Felixstowe	orrm.r.r.c	c	cpr.bc	bc	54	49	45	1	<9.00	Tr.	<21.00	0.0
Lympne	orrm.c	cr.rc	cprborq	or.cprbc	54	46	44	3	<9.00	1	<21.00	0.4
Scilly (St. Mary's)	cp	cbcp	bcbp	bbcp	53	47	.	1	<9.00	1	<21.00	3.6
Falmouth (Pendennis)	or.Rm.bcq	bccp.q	bcpq	bcp.q	55	50	.	3	<9.00	0.1	<21.00	2.8
Plymouth (Mt. Batten)	or.m.bcq	bcqcq	qcq.prbc	bqcPRc	56	49	47	1	<9.00	2	22.00	0.7
Portland Bill	oRr.z.	cPc	bccP	cP	57	49	.	1	<9.00	2	<21.00	.
Southampton (Calshot)	or.rm.c.ir	cqqprPRQ	bcprcbc	bcprcbc	56	49	46	33	<9.00	0.5	<21.00	0.0
Dungeness	orrc	cr	crccr	croRq	56	49	.	24	<9.00	6	<21.00	.
Guernsey	opro	cobc	clbca	bccpo	58	48	44	3	<9.00	6	2.30	0.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	25th 18h.	Scotia	S	5	C+	52	53
3	24th 21h.	Dieppe	WSW	6	bc-	53	52

GENERAL INFERENCE.

A deep depression centred north of Scotland is almost stationary while a secondary indicated to the northwest of Ireland is likely to move east-south-east. Bright intervals are probable in the eastern half of the British Isles at first but rain is likely to spread from the West to reach most districts later.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday 26th November, 1929.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands	Fresh or strong southwesterly or westerly winds, backing; showers at first, cloudy, some rain later; moderate temperature.	Very unsettled for two or three days.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Strong westerly or southwesterly winds, reaching gale force at times; backing later; cloudy, some rain; moderate temperature.	South Cone still flying all coasts.
8. N.W. England 9. N. Midlands	Fresh to strong southwesterly winds, backing; cloudy, some rain; moderate temperature.	
10. N.E. England 11. S.E. Scotland	As 1 - 3.	
12. S.W. Scotland & Isle of Man 13A. W. Scotland 13B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Strong southwesterly winds, backing later; bright intervals with showers at first, some rain later; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Strong southwesterly winds, reaching gale force at times, probably backing; cloudy, some rain; moderate temperature.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

SYNOPTIC CHART FOR 7h. TUESDAY, 26TH NOVEMBER, 1929.

Scale - 1/10,000,000

Nautical Miles

Statute Miles

Bar. (15) 41 Rain rising +3

(10) 39 Rain +3

slowly

Bar

(21) 46 O'cast

LOW.

falling

(10) 45 Rain

Barometer

(21) 47 Fine

(21) 45 Fine

(10) 43 Fine

(15) 45 Cloudy

(21) 44 Fine

(15) 48 Showers

rising

(21) 47 Fine

(2) 43 Rain

(15) 48 Fine

(27) 48 Heavy Rain

(42) 52 Cloudy

(15) Heavy Showers 45

(21) 50 Fine

(10) 47 Fine

(35) 52 Heavy Showers

(27) 49 Fine

(5) 50 Heavy Showers

(27) 52 Showers

(5) 52 Cloudy

generally.

(10) 48 Fine

(15) 54 Fine

(2) 46 Fine

(5) 59 Fine

HIGH.

(5) 50 Fine

(5) 50 Rain

LOW (10) 57 Rain

1018

1020

1022

(21) 41 Fine

Bar

falling

(35) 50 Cloudy

(39) 34 O'cast

slowly.

(27) 46 Cloudy

(15) 46 Heavy Rain

(10) 46 Fine

(27) 48 Cloudy

(15) 50 Cloudy

(5) 46 Cloudy

(5) 50 Cloudy

(5) 50 Rain

HIGH

1020

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 clouded. ◕ Sky more than ½ clouded. ● Overcast sky. ⊗ Snow & hail. • rain fallipe. ≡ fog. ≋ mist. ⚡ thunderstorm.

SEA CONDITIONS.

Very Rough.

ISOBARS. Barometric changes from hour to hour, in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. TUESDAY, 26th NOVEMBER, 1929. No. 330.

Observations at 1h. G.M.T. 26th

STATIONS.	Ht. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	34	977.6	-4	SE	4	c	50	92	7	1500	Stcu	5	Ast	8
Stornoway	30	977.7	-2	W	4	dr&s.	*	*	6	*	*	*	*	10
Wick	81	977.4	+4	WSW	2	c/r	41	97	7	1500	Nb	6	Ast	10
Tiree	23	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	27	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	83	984.4	+1	S	4	b	43	85	8	5700	Stcu	1	-	1
Renfrew	35	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	199	986.0	+4	WSW	4	dbc	45	85	8	2600	St	7/3	-	7/3
Lenchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	985.5	+1.5	SSW	3	bc/r	46	85	6	2500	Cu	4	-	4
Blacksod Point	18	986.7	+1	S	5	o/PR	46	75	7	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	987.2	+3	W	3	cr-	46	97	6	1500	Nb	9	Ast	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	992.2	+1	SW	5	bc	47	92	7	4000	Stcu	3	-	3
Birmingham (Edgbaston)	525	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	238	993.4	+1	SSW	6	b+	48	85	8	4000	Stcu	2	-	2
Gorleston	14	993.2	0	S'W	6	c	51	85	6	-	-	0	Ast	10
Valentia/Cahirciveen	30	991.2	+4	S	2	or+	47	97	8	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	992.3	+9	W	8	bc	50	92	7	4000	Stcu	4	-	4
Ross-on-Wye	229	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	257	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	52	*	*	*	*	*	*	*
Croydon	244	10000	+2	SW'S	5	c	51	85	6	800	Sc	9	-	9
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	10019	+1	SSW	6	or&s	51	85	6	800	Nb	10	-	10
Scilly (St. Mary's)	163	9991	+4	WSW	7	b	50	75	7	4000	Cu	2	-	2
Falmouth (Pendennis)	200	9992	+2	WS	6	bc-	51	85	7	4000	CuNb	4	-	4
Plymouth (Mt. Batten)	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	9991	+5	WSW	7	bc/PR	53	75	8	1500	Stcu	6	-	6
Southampton (Calshot)	10	10000	+3	SW	6	bc/pc	53	85	7	1500	CuNb	7	-	7
Dungeness	20	10014	+3	SW	7	cr	53	85	7	1500	Nb	10	-	10
Guernsey (St. Peter Port)	178	10040	+2	WSW	4	bc	54	86	7	4000	Stcu	4	-	4

Observations at 7h. G.M.T. 26th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Rain 0-1
Lerwick	979.4	+3	S	3	or	45	97	7	1500	Nb	10	-	10	*
Stornoway	979.4	+5	SW	5	bc	47	75	7	4000	Cu	7	-	7	4
Wick	981.5	+6	SSW	5	bc	45	85	8	2500	Stcu	3	Cist	4	4
Tiree	986.5	+4	WSW	5	c	47	85	7	4000	St	7	Cicu	8	*
Nairn	984.7	*	-	0	bc/r	43	85	8	2500	CuNb	6	-	6	*
Aberdeen	987.6	+7	SSW	3	bc-	43	85	6	2500	Nb	4	Ast	7	1
Malin Head	989.1	+4	SSW	5	bc+	44	85	7	4000	Stcu	4	Cicu	6	*
Renfrew	990.9	+6	SW	4	c	45	85	7	2500	Stcu	8	Ast	9	1
Edinburgh (Inchkeith)	989.6	+6	SW	3	c	44	75	8	1500	St	9	-	9	*
Lenchars	988.6	+4	SSW	4	c	43	85	7	4000	Stcu	5	Cist	9	*
Eskdalemuir	992.1	+5	SW	4	c	41	92	7	1500	Stcu	9	-	9	*
Tynemouth	992.4	+4	WSW	2	bc	45	85	7	1500	St	3	Acu	5	2
Blacksod Point	989.6	+1	S	4	c/pr	48	75	8	*	CuNb	8	-	8	6
Donaghadee	991.0	+2	SW	2	bc+	41	85	7	4000	Stcu	4	-	4	1
Birr Castle	991.9	+2	SW	1	c	43	92	7	4000	Stcu	8	-	8	*
Holyhead	993.4	+4	SW	4	bc	48	85	8	1500	St	6	-	6	2
Liverpool (Bidston)	996.3	+5	SW	4	bc	46	75	8	2500	Nb	7	-	7	*
Chester (Sealand)	996.3	+4	S'E	3	c+	46	75	6	1500	St	8	-	8	*
Harrogate	995.5	+5	SSW	4	b	43	85	7	4000	CuNb	1	-	1	*
Spurn Head	996.3	+3	W'S	5	bc	47	85	7	4000	Stcu	4	-	4	4
Birmingham (Edgbaston)	999.9	+4	S	4	o/PR	45	97	8	2500	Nb	10	-	10	*
Cranwell	998.7	+8	SW'W	4	bc	45	85	7	2500	St	3/3	-	3/3	*
Gorleston	1000.9	+2	SW'S	5	bc-	50	75	6	4000	Cu	3	Ci	5	1
Valentia/Cahirciveen	994.8	+4	WSW	6	oR	48	85	6	1500	Nb	10	-	10	*
Roches Point	996.2	+3	W	4	bc	49	92	7	1500	CuNb	4	-	4	6
Pembroke (St. Ann's H.)	996.3	+2	WSW	8	c+	52	92	8	1500	CuNb	6	Ast	9	7
Ross-on-Wye	999.7	+2	SW'S	3	cr	47	86	6	1500	Nb	9	-	9	*
Leafield	1000.8	+3	S'W	4	bc	44	85	8	4000	Stcu	3	-	3	*
Winchester (Worthy Dn.)	1003.3	+3	S	3	c	46	85	7	1500	St	8	-	8	*
S. Farnborough	1003.5	+3	SW	3	b+	47	85	7	1500	Stcu	2	-	2	*
London (Kew Obsy.)	1003.8	+5	SW'S	3	b	47	85	7	2500	Stcu	2	-	2	*
Croydon	1004.0	+5	SW	3	bc-	46	85	6	1500	Stcu	6	-	6	*
Shoeburyness	1004.5	+5	SSW	3	b-	46	92	7	-	-	0	Acu	2	3
Clacton-on-Sea	1003.3	+5	SSW	4	bc-	49	85	7	4000	St	3	Acu	4	4
Felixstowe	1003.9	+6	SSW	5	bc	50	85	7	-	-	0	Acu	3	*
Lympne	1004.9	+4	SSW	4	c+	48	97	6	1500	St	8	-	8	*
Scilly (St. Mary's)	1002.2	+3	WSW	6	bc	49	92	7	4000	Cu	5	-	5	4
Falmouth (Pendennis)	1002.1	+3	W'N	6	bc/pr	51	86	7	4000	CuNb	6	-	9	*
Plymouth (Mt. Batten)	1002.1	+3	SW	6	c/pr	50	85	8	2500	CuNb	9	-	9	*
Portland Bill	1002.1	+1	SW	7	bc/PR	52	85	8	1500	Stcu	6	-	6	7
Southampton (Calshot)	1003.7	+4	SW'W	5	bc+	52	75	7	2500	CuNb	6	-	6	6
Dungeness	1004.6	+3	SW	4	c/r	52	85	8	2500	Stcu	6	Cicu	10	6
Guernsey (St. Peter Port)	1006.9	+4	WSW	2	bc/PR	50	92	7	4000	Stcu	6	-	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.-17h. 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	cR	ro	41	49	0.5	1	0.0
Douglas (I. o. M.)	co	oR	45	51	5	12	0.2
Llandudno	crr	cr	47	55	6	6	0.1
Colwyn Bay	corr	ocoro	46	54	3	7	0.1
Rhyl	cr	re	42	54	5	7	0.0
Wallasey	oRo	crbcc	45	55	3	5	0.2
Southport	orro	rocopqo	44	53	3	6	0.1
Blackpool	or	oreq	43	53	2	7	0.0
Morecambe	cre	rrcr	43	55	1	6	0.0
Ilkley	orc	rc	42	55	5	4	0.0
Claethorpes	od	o	41	55	6	0.5	0.0
Mablethorpe	opq	qpq	41	55	7	0.3	0.0
Skegness	opr	opr	43	52	4	0.5	0.0
Aberystwyth	quorme	orqu	48	56	7	5	0.0
Bath	cir.	circo	46	58	23	0.3	0.2
Cheltenham	or	orbcc	48	51	21	2	0.0
Leamington Spa	oc	or	45	57	9	0.3	0.3
Lowestoft	bcoir	ocbcc	43	54	5	Trace	0.0
Harwich & Dovercourt	roc	oc	44	54	5	-	0.0
Maldon	rcd	c	40	57	4	Trace	0.0
Ilfracombe	op	op	51	57	29	2	0.1
Bude	dpc	pcbcc	42	56	19	1	1.6
St. Ives	cpr	cpr	51	55	51	4	1.1
Penzance	c	cbcpr	51	55	36	0.2	2.0
Paignton	oRcopq	ocrpbq	53	56	39	5	1.1
Torquay	olqbqd	rpbcbq	53	57	34	3	1.0
Jersey	crc	c	50	57	14	-	0.0
Weymouth	pcqpc	cpoc	49	56	21	1	0.1
Bournemouth	dor	ror	47	56	24	2	0.0
Ventnor	rou	ourc	48	56	10	0.3	0.0
Portsmouth (S'thsea)	o	opo	48	57	23	1	0.0
Bognor Regis	ro	o	47	56	15	1	0.0
Littlehampton	crc	c	47	56	13	0.2	0.0
Worthing	cidc	c	48	56	13	Trace	0.0
Brighton	coc	cpc	47	56	10	Trace	0.0
Eastbourne	ro	opo	51	57	12	0.5	0.2
Hastings	oroc	coro	50	57	13	1	0.1
Folkestone	orroc	cor	47	56	8	2	0.0
Dover	orc	coir	48	55	7	2	0.1
Deal	rro	cor	44	56	19	2	0.0
Tunbridge Wells	oro	oro	45	56	16	1	0.5
Ramsgate	doc	cor	48	56	3	1	0.6
Margate	crbc	bccr	46	56	2	0.3	0.0
Southend	or.	or.	45	55	3	0.2	0.0

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

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

‖ 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.24842. WEDNESDAY, 27th NOVEMBER 1929.

Observations at 15h. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Rate of ground.
Lerwick	986·1	+6	S'W	3	bc	49	75	8	1500	StCu	3	ACu	5	•
Stornoway	983·7	+4	SW	4	c/pc	49	75	7	4000	CuNb	5	Cu Cu	8	•
Wick	987·4	+4	SSW	5	c	46	85	8	1500	CuNb	7	ASt	10	•
Tiree	988·5	+2	SW'W	5	bc	50	92	7	4000	Cu	4	CiSt	7	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	991·3	+3	SW	4	c	46	75	7	1500	St	1	RCu	8	1
Malin Head	991·8	+4	SSW	5	c/p	48	85	7	2500	CuNb	4	CuCu	8	•
Renfrew	994·3	+2	SW'S	4	bc-	47	85	6	2500	Cu	4	Ci	6	2
Edinburgh (Inchkeith)	993·4	+4	WSW	4	cfo	45	75	8	4000	StCu	7	ASt	9	•
Leuchars	993·3	+3	SW	3	c/pc	45	85	7	1500	St	8	Ci	9	2
Eskdalemuir	995·2	+2	SSW	4	cfo	43	85	7	1500	StCu	9	-	9	2
Tynemouth	996·5	+2	SSW	2	bc	48	85	1	2500	Cu	4		4	•
Blackrod Point	994·4	+4	W	4	c	49	75	8	•	CuNb	8	-	8	•
Donaghadee	994·4	+1	WSW	2	b	48	15	8	-	-	0	CuCu	2	•
Birr Castle	991·6	+4	SW	3	orr	46	92	7	2500	Nb	10		10	•
Holyhead	997·7	+2	WSW	5	cfo	50	85	7	1500	St	9	-	9	1
Liverpool (Bidston)	997·9	+1	SW	4	c/pc	47	85	7	1500	Nb	9	-	9	•
Chester (Sealand)	998·1	0	S'E	2	c/pc	50	75	7	1500	CuNb	7	Ci	8	2
Harrogate	998·1	+1	S'W	1	c+	47	85	5	2500	Nb	8	ACu	9	•
Spurn Head	999·0	0	WSW	5	c+	50	85	7	5700	StCu	5	Ci	8	•
Birmingham (Edgbaston)	1001·7	+1	SSW	4	bc-	48	85	6	2500	Nb	5	-	5	2
Cranwall	1000·9	+1	SW'W	4	bc	52	75	7	5700	StCu	3	ACu	6	1
Gorleston	1004·0	0	SW	4	cfo	50	92	6	2500	Nb	10	-	10	•
Valentia (Cahfreiveen)	1001·7	+5	SW'W	6	bc/pc	49	65	8	2500	Nb	3	ASt	4	2
Roches Point	1002·2	+9	W	4	c	48	85	7	1500	CuNb	8	-	8	•
Pembroke (St. Ann's H.)	999·5	0	W	8	c/PR	48	92	7	1500	CuNb	6	ASt	8	•
Ross-on-Wye	1002·0	+1	SW	4	c	48	85	6	2500	CuNb	6	Ci	8	2
Leafield	1003·3	+3	SW	5	c/PR-	47	75	8	1500	StCu	9	-	9	2
Winchester (Worthy Da.)	1005·3	+2	SW'S	4	cfo+	48	85	7	1500	Nb	6	ASt	8	2
S. Farnborough	1005·0	+2	SW	3	c	49	85	8	4000	StCu	7	Ci	9	2
London (Kew Obsy.)	1004·9	0	SW'S	4	c	49	85	6	4000	StCu	1	ASt	9	2
Croydon	1005·5	0	SW	3	c/r	47	85	6	1500	Nb	8	ASt	9	2
Shoeburyness	1005·5	-1	SSW	3	c/r	49	92	8	4000	StCu	4	ASt	8	•
Clacton-on-Sea	•	"	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1005·3	0	S	4	c	48	92	7	4000	StCu	9	-	9	2
Lympne	1006·1	+1	SW'S	4	cr	48	92	7	1500	Nb	8	ASt	10	2
Scilly (St. Mary's)	1006·7	+8	W'S	7	bc	51	75	7	4000	Cu	3	Ci	4	•
Falmouth (Pendennis)	1007·9	+2	W	6	bc/PR	51	75	8	4000	CuNb	5	ACu	7	•
Plymouth (Mt. Batten)	1006·8	+4	W	6	b/pc	50	75	8	1600	CuNb	2	ACu	2	2
Portland Bill	1005·0	+3	SW	7	bc/PR	53	75	8	1500	Nb	7	-	7	•
Southampton (Calshot)	1006·7	+2	W	3	c/r	48	85	8	2500	CuNb	4	ASt	8	1
Pungeness	1006·4	+2	SW	4	cr	51	92	8	2500	Nb	9	-	9	•
Guernsey (St. Peter Port)	1011·0	+4	W	5	bc-	52	75	7	4000	StCu	4	-	4	•

Observations at 15h. 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	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sea. 0-9
Lerwick	989·4	+4	S	3	b	48	85	7	1500	StCu	1	-	1	•
Stornoway	988·4	+7	SW	4	bc	47	85	7	4000	CuNb	4	ACu	6	3
Wick	990·1	+3	SW	4	bc	46	92	8	1500	Cu	3	ACu	7	4
Tiree	993·5	+6	W'N	5	b-	48	75	8	4000	StCu	1	-	1	4
Nairn	991·0	•	WSW	2	bc+	46	85	8	2500	Cu	7	-	7	•
Aberdeen	994·3	+4	S	3	bc	44	85	6	-	-	0	ASt	3	1
Malin Head	996·9	+6	WSW	6	bc/p	48	75	7	2500	CuNb	3	-	3	4
Renfrew	996·5	+4	SW'S	4	cfo	47	92	6	1500	Nb	9	-	9	•
Edinburgh (Inchkeith)	995·7	+4	SW	3	bc	45	75	85	1500	St	1	ACu	3	1
Leuchars	995·4	+3	WSW	3	bc-	44	85	7	2500	StCu	4	-	4	•
Eskdalemuir	998·0	+4	SSW	2	c+	42	97	7	1500	StCu	9	-	9	•
Tynemouth	998·2	+2	SSW	1	bc	45	55	6	1500	St	3	-	3	1
Blackrod Point	999·1	+3	W	4	bc	47	65	8	•	CuNb	6	-	5	5
Donaghadee	997·4	+4	SW	2	c/p	45	85	7	4000	StCu	8	-	8	•
Birr Castle	1002·6	+5	WSW	1	bc/pc	43	92	7	4000	CuNb	6	-	6	•
Holyhead	1001·9	+6	W'N	7	oR-	47	85	6	1500	Nb	10	-	10	6
Liverpool (Bidston)	1000·3	+4	SW	3	c-	46	85	8	2500	Nb	8	-	8	•
Chester (Sealand)	1000·9	+5	WSW	3	cfo	47	85	6	1500	Nb	8	-	8	•
Harrogate	1000·1	+2	SSW	2	b/r	44	92	7	-	-	0	-	0	•
Spurn Head	1000·7	+1	SW'W	5	bc-	46	92	7	4000	StCu	5	-	5	4
Birmingham (Edgbaston)	1004·7	+3	SSW	3	c	45	92	8	2500	Nb	8	-	8	•
Cranwall	1003·2	+3	WSW	5	bc	46	85	6	2500	StCu	2	Ci	3	•
Gorleston	1005·2	+2	SW'S	4	b-	48	85	7	-	-	0	-	0	0
Valentia (Cahfreiveen)	1005·5	+4	SW'W	4	bc	47	65	8	2500	St	2	ACu	3	4
Roches Point	1006·3	+6	W	3	b	45	85	8	2500	CuNb	1	-	1	6
Pembroke (St. Ann's H.)	1004·3	+5	W	8	c/pc	50	92	7	1500	CuNb	8	-	8	7
Ross-on-Wye	1005·5	+4	WSW	3	c/pc	47	75	6	2500	CuNb	9	-	9	•
Leafield	1005·8	+3	SW	4	bc/pc	44	85	8	4000	Cu	5	-	5	•
Winchester (Worthy Da.)	1008·2	+4	SW	3	b	45	85	8	2500	StCu	2	-	2	•
S. Farnborough	1008·0	+4	W	3	cfo	46	85	7	1500	Nb	7	ASt	9	•
London (Kew Obsy.)	1007·8	+4	SW	4	bc+	47	85	6	-	-	0	ACu	3	•
Croydon	1008·0	+3	WSW	4	b-	47	85	5	2500	CuNb	2	-	2	•
Shoeburyness	1008·1	+4	SW'W	4	b	47	85	8	-	-	0	-	0	•
Clacton-on-Sea	1006·8	+3	SW	4	bc	47	92	7	2500	Cu	3	-	3	3
Felixstowe	1007·3	+3	SSW	3	b-	47	85	7	-	-	0	-	0	3
Lympne	1008·8	+2	SW'W	4	b-	44	85	7	-	-	0	-	0	•
Scilly (St. Mary's)	1010·4	+4	W	7	bc	49	75	7	4000	Cu	3	-	3	6
Falmouth (Pendennis)	1011·3	+2	W	6	bc/pc	48	65	8	4000	CuNb	5	-	5	2
Plymouth (Mt. Batten)	1010·4	+4	W	6	bc/PR-	48	75	8	4000	CuNb	3	-	3	4
Portland Bill	1008·0	+4	WSW	6	bc-	51	75	8	2500	StCu	4	-	4	7
Southampton (Calshot)	1009·8	+5	W'S	4	b-	48	75	8	2500	CuNb	1	-	1	3
Pungeness	1008·2	+3	W	5	bc-	50	85	8	2500	StCu	4	-	4	5
Guernsey (St. Peter Port)	1013·6	+4	W	3	bc/h	47	85	8	4000	StCu	4	-	4	4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Afternoon.	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. %	Humidity. 9h. G.M.T. %	Visibility. 0-9
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	cq pc	bcbm.	bm. w	51	39	29	3	Tr	1·1	"	"	3
Croydon	244	bc rr	cbcm.	bcz. b	49	42	37	2	-	0.4	"	"	6
Greenwich (Royal Obsy.)	149	crc	crcb	cpbm	51	39	29	3	Tr	0·8	78	84	4
City (Bunhill Row)	20	"	"	"	"	"	"	"	"	0.0	"	"	"
Westminster (St. James' Pk.)	27	"	"	"	52	38	30	6		0.4	86	95	"
Regent's Pk. (Botanic Gdns.)	168	"	"	"	"	"	"	"	"	0·5	"	"	"
Camden Square	110	bcorc	c	"	50	41	"	4	-	"	"	92	"
Kensington Palace	80	bcor	bc	"	51	40	30	5	-	"	(At 18h.) 79	88	"
Hampstead Observatory	450	"	"	"	49	35	29	4	Tr	0.5	"	93	"

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1·0	13h. 26th	<0·3	1h.-6h. 27th

Kew Observatory

Max.	Time.	Min.	Time.
0·2	12h. 26th	<0·1	1h. 27th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 26th 17h 00m. to 27th 06h 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 30	12 28	92
δ Ursae Minoris	13 30	11 52	88

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.

27th to 28th November, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·37	11·41	15·44
Greenwich	7·39	11·41	15·43
Wick	7·39	11·48	15·56
	7·40	11·48	15·55
Valentia	8·30	12·0	15·30
	8·32	12·0	15·28
	8·22	12·29	16·36
	8·23	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 500—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_o = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

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

SEA DISTURBANCE.

0=no swell } Calm or
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.

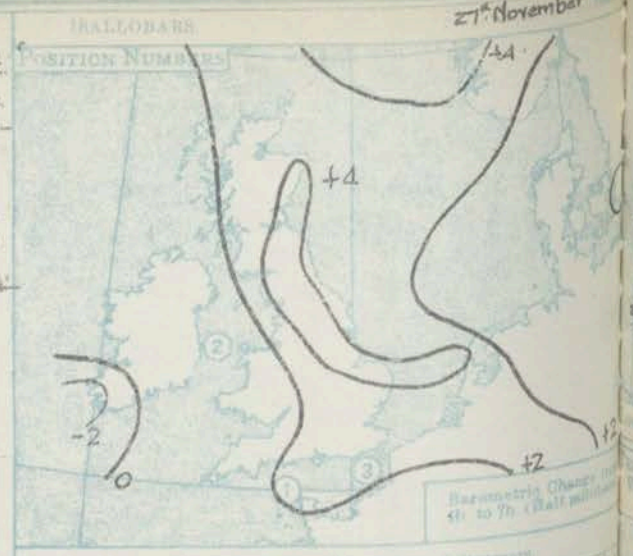
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13 "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. 26th	WEATHER. 13h.-18h. 26th	WEATHER. 18h.26th to 1h.27th	WEATHER. 1h.-7h. 27th	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 26h. Hours.
Lerwick	oircbc	bcb	bc	bcb	49	46	*	1	<8.00	-	-	1.0
Stornoway	p	c	cprb	c	49	43	*	2	9.00	0.4	<21.00	1.3
Wick	c	b.bc	b.bc	b.bc	46	40	*	-	-	-	-	*
Tiree	cpr.	bcpr.	bc	cpR	50	44	39	Tr	11.00	0.3	4.30	0.4
Nairn	bccbc	bc	bcx	bc	46	40	*	-	-	-	-	0.0
Aberdeen	bccz.	cbcz.	bccz.	cbcz.	46	38	31	-	-	-	-	0.1
Malin Head	bcc	cpr.	bcpr	bbcp.r	48	39	*	0.6	13.30	2	<21.00	1.5
Renfrew	ccbcq	bccpr.	ir.bc,r	cb	48	41	35	0.1	16.30	1	<21.00	1.7
Edinburgh(Inchkeith)	cr.	cbc	oir.cbc	cir.bcb	47	41	38	Tr	12.30	Tr.	<21.00	0.0
Leuchars	cp.	cbcbc	bcbcw	bcwbw	46	38	31	0.1	11.00	-	-	1.0
Eskdalemuir	ccir	c	corrc	c	44	34	29	2	9.00	3	<21.00	0.0
Tynemouth	bc	bc	bcb	bc	49	42	32	-	-	-	-	*
Blacksod Point ...	pqc	pqbc	pq.bc	pc	50	43	*	2	*	3	*	*
Donaghadee	bcb	bbcc	pr.bc	b	49	36	*	-	-	0.1	<21.00	*
Birr Castle	cir	orrcp	bcb	bcr.bx	47	36	27	6	<8.00	Tr.	2.30	0.9
Holyhead	bccprcbc	cbccr.R	r.cbc	b	52	44	39	3	9.00	1	<21.00	2.0
Liverpool (Bidston) ...	cpom	cprp.	prr.c	cbcb	49	40	35	3	11.00	2	<21.00	0.2
Chester (Sealand) ...	cirmm	pr	cpmrbcmm	bcbmm	51	34	27	2	9.00	0.3	<21.00	0.3
Harrogate	bbcc	crcb	crr.	cb	48	37	30	2	16.30	3	<21.00	0.9
Spurn Head	bcc	cbc	cbc	cpr.bc	51	40	*	-	-	Tr.	2.30	0.8
Birmingham(Edgbaston)	cpr.	cpr	cp.r	cbc	48	37	34	3	<8.00	0.4	<21.00	1.3
Cranwell	cbc	bc	bcprb	b	52	37	35	-	-	0.1	<21.00	2.6
Gorleston	bccq	r.cbcb	b	b	52	38	35	0.1	12.30	-	-	0.7
Valentia(Cahirciveen)	circpcup	bc	bcprbcPHbc	bc	49	39	33	3	<8.00	2	<21.00	2.6
Roches Point	bcpoc	cp.b	bw	bw	50	39	*	1	9.00	Tr.	-	*
Pembroke(St.Ann's H.)	cpoq	cpq	bcpq	bcprh	52	47	*	2	11.00	1	<21.00	1.6
Ross-on-Wye	Rcir.	pbcpc	pc.bcb	b	50	39	31	5	<8.00	0.1	<21.00	0.5
Leafield	bcprc	cprbc	bw	bw	49	37	33	1	11.00	0.1	-	1.9
Winchester (Worthy Dn.)	cPRqbc	cprbcb	b	b	51	36	27	3	9.00	-	-	1.4
S. Farnborough ...	cqpcpc	bcpb	bw	bwx	50	36	25	5	9.00	-	-	0.7
London (Kew Obsy.) ...	cqpc	bcbm.	bm.w	bm.w	51	39	29	3	9.00	Tr.	-	1.1
Croydon	bccm.r.rr	cbcz.m.	bcz.b	b	49	42	37	2	9.00	-	-	0.4
Shoeburyness	boirc	oircbcb	b	bm.	51	40	35	6	9.00	-	-	1.2
Clacton-on-Sea ...	bcpbc	bccpbc	bcb	bbc	50	40	35	3	9.00	-	-	1.4
Felixstowe	bcbcqr	cr.rrbc	b	bw	51	39	35	1	11.00	-	-	1.8
Lympne	tcrcrr	cprbc	b	b	52	39	33	4	11.00	-	-	0.5
Scilly (St. Mary's) ...	bcp	bcp	bc p.	bc	51	44	*	2	<8.00	0.1	<21.00	4.7
Falmouth (Pendennis)	bcPq	bcPq	bc p.	bc p.	52	45	*	3	9.00	1	<21.00	4.1
Plymouth(Mt.Batten)	cqPRb	cprqb	bcqprb	bcprbw	53	39	36	1	<8.00	0.5	<21.00	3.6
Portland Bill	bcP	bcPbc	b	pbc	54	48	*	1	<8.00	-	-	*
Southampton(Calshot)	bcpq	cPRhqcbcpr	bbc	bcbw	53	41	33	6	9.00	-	-	1.2
Dungeness	corcler	crcbc	bcb	bbcl	53	46	*	5	<8.00	-	-	*
Guernsey	phrbc	bccph	cphtl	bcprc	53	45	39	9	<8.00	5	<21.00	3.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	26th 10h	Scotia	S	5	bc	50	53
1	- 13h	St Helier	WSW	8	bc	54	55
3	27th 2h	Arundel	WSW	5	bctl	52	51

GENERAL INFERENCE.

A ridge of high pressure is over the British Isles but is giving way before depressions off Western Ireland and in the Bay of Biscay moving respectively eastward and northeastward. Weather will be fair generally at first but unsettled conditions are likely to be renewed later in Ireland and the southern half of England and Wales.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 27th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate southwesterly winds, becoming fresh south-easterly; bright at first; cloudy with some rain tomorrow; moderate temperature.	Unsettled.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate to fresh southerly to southeasterly winds; cloudy, some rain later; moderate temperature, rising a little.	
10. N.E. England 11. S.E. Scotland	Moderate southwesterly winds, backing; bright, becoming cloudy; moderate temperature.	
12. S.W. Scotland & Isle of Man 13. (A W Scotland / B N W Scotland) 14. Mid-Scotland	Moderate or fresh southerly winds; bright periods at first; cloudy later with perhaps some rain; moderate temperature.	
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	Moderate to fresh southerly winds, becoming strong at times later; cloud increasing, some rain later; moderate temperature, rising somewhat.	

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

† For code see page 1

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

SYNOPTIC CHART FOR 7h. WEDNESDAY, 27th. NOVEMBER, 1929.

HIGH

Bar

LOW

Rising

Barometer

Slowly

Rising

Bar. Falling

Slowly

Barometer

Rising

Slowly

Bar.

Falling

HIGH

LOW

1006 1004 1002 1000 998 996 994 992 990 988 986 984 982 980 978 976 974 972 970 968 966 964 962 960 958 956 954 952 950 948 946 944 942 940 938 936 934 932 930 928 926 924 922 920 918 916 914 912 910 908 906 904 902 900 898 896 894 892 890 888 886 884 882 880 878 876 874 872 870 868 866 864 862 860 858 856 854 852 850 848 846 844 842 840 838 836 834 832 830 828 826 824 822 820 818 816 814 812 810 808 806 804 802 800 798 796 794 792 790 788 786 784 782 780 778 776 774 772 770 768 766 764 762 760 758 756 754 752 750 748 746 744 742 740 738 736 734 732 730 728 726 724 722 720 718 716 714 712 710 708 706 704 702 700 698 696 694 692 690 688 686 684 682 680 678 676 674 672 670 668 666 664 662 660 658 656 654 652 650 648 646 644 642 640 638 636 634 632 630 628 626 624 622 620 618 616 614 612 610 608 606 604 602 600 598 596 594 592 590 588 586 584 582 580 578 576 574 572 570 568 566 564 562 560 558 556 554 552 550 548 546 544 542 540 538 536 534 532 530 528 526 524 522 520 518 516 514 512 510 508 506 504 502 500 498 496 494 492 490 488 486 484 482 480 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

27 36 Rain +1

10 37 Rain +4

5 37 Rain +1

5 45 Cloudy +3

27 46 Rain +4

21 45 Rain

5 45 Cloudy

27 45 Rain

10 36 Cloudy

2 46 Fine

15 45 Cloudy

15 45 Fine

5 41 Fine

46 Coast. 10

5 39 Fine

5 41 Fine

15 41 Fine

10 48 Fine

2 43 Fine

15 48 Cloudy

10 40 Fine

15 45 Cloudy

2 39 Fine

10 45 Fine

21 46 Cloudy

39 5 Fine

10 38 Fine

10 39 Fine

15 49 Fine

10 40 Fine

48 Fine 10

15 49 Fine

10 41 Cloudy

21 43 Fine

47 Fine

2 45 Cloudy

15 52 Cloudy

5 45 Cloudy

10 43 Fine

10 43 Fine

39 2 Fine

41 Fine

37 Fine

31 Fine

10 56 Coast.

54 Fine 10

1018 1020 1022 1024

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 ⅞ clouded. Sky more than ⅞ clouded. Overcast sky. Rain falling. Snow. Hail. Thunder. Fog. Mist. Cirrus. Cumulus. Stratus.

SEA DISTURBANCE. Very Rough.

ISOBARS. Barometric Change from 0 to 8 in half millibars is entered beneath the wind or weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....WEDNESDAY, 27th NOVEMBER 1929. No. 331...

STATIONS	Height above M.S.L., in feet	Observations at 1h. G.M.T. 27th: Barom. at M.S.L. mb.	Change in 3 Hours†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 27th: Barom. at M.S.L. mb.	Change in 3 Hours†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain 0-1
Lerwick	54	994.2	+5	S'W	2	bc	47	85	8	1600	StCu	3	-	3	997.8	+5	S'W	1	b	46	85	8	1500	StCu	2	-	2	.
Stornoway	30	995.2	+4	WSW	3	b-	*	*	*	*	*	*	*	2	996.2	+2	SSW	4	b	45	86	7	4000	Cu	2	-	2	3
Wick	81	996.5	+6	SW	3	bc	42	92	8	2500	StCu	3	-	3	999.5	+2	SW	2	b	41	85	8	2500	StCu	2	-	2	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.3	+1	SWW	6	bcjp	47	85	7	2500	CuNb	6	-	6	4
Nairn	39	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.8	0	SW	1	bc	40	85	8	2500	Cu	6	-	5	.
Aberdeen	97	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.3	+4	SW	2	b	39	85	6	-	-	0	ACu	2	1
Malin Head	81	1002.1	+6	~~SSE~~ (W)	5	bjp	43	85	8	2500	CuNb	2	-	2	1002.9	+1	S	4	bcjp	41	85	8	2500	CuNb	1	ACu	3	4
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.6	+3	SW	2	b	41	92	7	2500	StCu	1	-	1	.
Edinburgh (Inchkeith)	100	999.8	+4	WSW	4	bc	45	85	7	1500	St	4	-	4	1005.0	+5	WSW	4	bc	41	85	8	-	-	0	ACu	3	1
Leuchars	38	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.5	+5	SW	1	b	38	92	8	4000	StCu	2	-	2	.
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.3	+5	S'W	3	c	36	92	7	1500	StCu	9	-	9	.
Tynemouth	67	1002.7	+3	W	2	bc+	46	92	8	1500	St	6	-	6	1006.4	+3	WSW	1	bc	43	85	6	2500	Cu	4	-	4	1
Blacksod Point	18	1002.2	+2	WSW	4	bc	47	75	7	*	CuNb	6	-	6	1003.7	+1	WSW	4	c	48	85	7	*	CuNb	8	-	8	5
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.1	+1	W	2	b+	37	85	8	-	-	0	CiSt	1	1
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.1	+1	SW	1	b	39	86	8	-	-	0	-	1	.
Holyhead	23	1007.4	+5	WSW	5	b-	45	76	7	2500	St	1	-	1	1009.0	+1	SW'W	3	b	45	75	8	2500	Cu	1	-	2	.
Liverpool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+2	SW	3	b	40	86	8	2500	StCu	2	-	2	0
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	+2	SE'S	2	b	34	92	6	-	-	0	-	.	.
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.4	+5	SW	2	b	38	92	8	2500	CuNb	1	-	1	.
Spurn Head	29	1004.8	+2	WNW	5	bc-	45	92	7	6700	StCu	2	ASt	4	1005.6	+3	W	3	bc	40	97	7	6700	StCu	3	-	3	3
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.3	+2	SW	3	b	38	92	8	-	-	0	-	0	.
Cranwell	236	1007.6	+4	W'S	4	b	42	85	7	4000	StCu	1	-	1	1011.3	+4	WSW	3	b	38	92	7	-	-	0	ACu	1	0
Gorleston	14	1008.7	+3	SW'W	3	b	43	92	7	-	-	0	-	0	1012.1	+4	WSW	3	b	39	86	7	-	-	0	ACu	.	.
Valentia/Cahirciveen	30	1008.4	+3	W'N	4	bc	46	97	9	*	CuNb	3	-	3	1008.2	-2	S	2	bc	39	85	8	2500	StCu	3	-	3	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.3	0	N	2	b	40	92	8	2500	CuNb	2	-	2	4
Pembroke (St. Ann's H.)	180	1008.8	+2	W	5	bc-	49	92	8	1500	CuNb	3	-	3	1010.8	+1	W	4	bc	49	92	8	1500	CuNb	3	-	3	.
Ross-on-Wye	238	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.5	+1	SW'S	2	b	39	92	7	-	-	0	ASt	1	.
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+2	SW	3	b	37	92	8	5700	StCu	1	-	.	.
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.0	+2	WSW	2	b	37	92	8	-	-	0	ASt	1	.
S. Farnborough	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.6	+2	WSW	2	b	37	97	8	2500	CuNb	<1	Ci	1	.
London (Kew Obsy.)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	1014.2	+2	SW	3	b	40	92	6	-	-	0	ACu	1	.
Croydon	344	1011.6	+3	W'S	4	b	44	75	7	-	-	0	-	0	1013.7	+2	W'S	3	b+	42	86	6	4000	StCu	1	-	.	.
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.2	+3	SW	1	b	40	92	6	-	-	0	ACu	1	2
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.8	+2	NW	3	bc	40	92	7	-	-	0	ACu	3	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.4	+2	SW	2	b	40	92	6	-	-	0	ASt	2	.
Lympne	350	1012.2	+2	WSW	3	b	41	85	7	-	-	0	-	0	1014.5	+2	SW'W	2	b	40	92	7	4000	CuNb	1	-	.	.
Scilly (St. Mary's)	165	1012.2	+1	W'S	6	bc	48	85	8	4000	Cu	3	-	3	1013.8	+1	SW'S	3	bc	48	86	8	4000	Cu	3	Ci	4	2
Falmouth (Pendennis)	200	1013.1	+1	W'S	4	bc/pr	48	75	8	4000	CuNb	3	-	3	1014.8	0	W	1	bc	45	86	8	4000	CuNb	3	-	3	0
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.4	+1	-	0	b	40	92	8	2500	CuNb	<1	Ci	3	0
Portland Bill	37	1011.4	0	WSW	6	b-	50	75	8	-	-	0	-	0	1013.2	+3	W	4	bc+	49	75	8	1500	StCu	3	-	3	0
Southampton (Calshot)	10	1012.8	+2	W'S	3	bc+	45	85	8	4000	StCu	1	ASt	3	1014.9	+3	NW	2	b	41	85	8	2500	CuNb	1	-	1	0
Dungeness	30	1011.9	+2	W	4	b	48	75	8	-	-	0	-	0	1014.2	+2	W	3	bc+	45	86	8	4000	CuNb	3	ASt	4	3
Guernsey (St. Peter Port)	172	1015.4	+2	WSW	3	bc	48	85	8	4000	StCu	4	-	4	1017.0	+2	-	0	bc	47	85	7	2500	StCu	6	-	6	5

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

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 25th to 9h. 26th. °F.	Temperature. Max. 9h. -17h. 26th. °F.	Rainfall† Night 17h.-9h. 25th-26th. mm.	Rainfall† Day 9h.-17h. 26th. mm.	Sunshine. Sunrise to Sunset. 26th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	41	46	2	-	1.7
Douglas (I. o. M.)	cbc	rpr	43	50	14	1	2.0
Llandudno	cre	rere	45	52	7	1	0.3
Colwyn Bay	ccrer	crec	43	50	9	2	0.1
Rhyl	c	rc	42	54	8	2	0.3
Wallasey	core	crire	44	50	5	4	0.0
Southport	ored	reoro	* 44	47	7	6	0.0
Blackpool	ore	ep	44	47	9	1	0.0
Morecambe	ecber	cbec	43	48	14	2	0.2
Ilkley	ep	oro	40	49	3	1	0.0
Cleethorpes	cbc	b	45	51	-	-	0.7
Mablethorpe	crnbc	bc	44	53	-	-	2.9
Skegness	bec	cb	43	51	-	-	3.6
Aberystwyth	qrebc	reqo	50	50	8	3	1.6
Bath	cebc	becir	49	52	0.3	1	2.1
Cheltenham	orbc	orbcc	47	53	0.5	2	2.1
Leamington Spa	c	cr	44	52	5	1	1.2
Lowestoft	bbcod	bc	43	52	-	Trace	3.1
Harwich & Dovercourt	wb	rbc	47	51	Trace	1	1.6
Maldon	bcrc	rc	46	50	-	3	1.1
Ilfracombe	coph	op	49	53	2	2	0.1
Bude	bcp	bcq	49	52	1	0.3	2.4
St. Ives	pr	pr	48	52	3	Trace	3.3
Penzance	bpr	bepr	48	52	4	1	4.0
Paignton	berhpqo	berhpbv	46	54	3	0.3	3.8
Torquay	phbcp	bcpb	46	53	5	0.3	3.7
Jersey	bcrqc	bcrqc	48	54	1	4	4.0
Weymouth	pcpbc	cb	48	54	1	0.6	2.8
Bournemouth	roc	rbcb	47	52	3	2	1.8
Ventnor	tlrcp	cpubc	48	52	3	0.5	1.9
Portsmouth (S'thsea)	cph	bcpc	49	55	3	3	1.0
Bognor Regis	bcPR	bcPR	48	52	6	2	1.2
Littlehampton	crbcp	bcp	49	53	3	3	1.0
Worthing	cp	cpbc	49	53	4	2	1.8
Brighton	rcrbc	cbc	49	52	4	2	0.7
Eastbourne	cirq	opocbc	48	55	5	6	0.6
Hastings	corhr	prcbc	49	54	2	8	0.3
Folkestone	corrh	pirbc	50	55	3	7	1.0
Dover	bcor	rob	51	55	2	4	4.9
Deal	bcorh	ro	49	54	4	10	0.5
Tunbridge Wells	oroc	cbc	47	51	1	2	1.0
Ramsgate	bctlr	qc	49	53	1	3	1.2
Margate	bctlr	cbc	48	54	0.2	4	1.4
Southend	bbcop	opbcb	47	50	0.2	3	0.9

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24843 Thursday, 28th November 1929.

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. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1000.1	+3	SW	1	bc	48	85	8	1500	St.Cu.	2	Ci.	3	•
Stornoway	997.7	+1	SSW	3	bc	48	86	7	4000	Cu.Nb.	5	A.Cu.	7	•
Wick	1001.2	+1	SW	2	b	45	85	8	2500	Cu.	2	-	2	•
Tiree	1001.8	+1	WSW	5	bc	49	85	7	4000	St.Cu.	4	A.Cu.	6	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1001.1	0	SSW	2	b	45	75	6	2500	Cu.	1	A.Cu.	1	1
Malin Head	1001.3	+1	SSW	5	bc/r	45	92	8	2500	Cu.	3	A.Cu.	4	•
Renfrew	1006.1	0	SW	4	c/b	46	92	5	1500	Cu.Nb.	8	-	8	2
Edinburgh (Inchkeith)	1006.3	-1	SW	3	bc	46	75	7	4000	Cu.	1	A.St.	7	•
Leuchars	1005.5	0	SW	3	b	45	75	6	1500	St.Cu.	2	Ci.	2	2
Eskdalemuir	1007.4	0	SSW	4	c/bc	43	92	7	1500	St.Cu.	9	-	9	2
Tynemouth	1007.6	+2	WSW	2	bc/f	47	75	6	2500	Cu.	6	-	6	•
Blacksod Point	1002.7	0	S	4	bc	49	75	8	*	-	0	Ci.	6	•
Dunaghadee	1006.3	-1	SW	2	b+	47	75	8	4000	Cu.	2	-	2	•
Birr Castle	1006.0	-3	SSE	1	bc	46	75	8	-	-	0	A.Cu.	5	•
Holyhead	1009.1	-2	SSW	4	c+	49	65	8	2500	Cu.	2	Ci.St.	9	1
Liverpool (Bidston)	1010.4	0	SW'S	3	bc+	46	75	8	2500	St.Cu.	1	A.Cu.	3	•
Chester (Sealand)	1010.4	-1	SE'S	3	bc+	45	85	7	2500	St.Cu.	3	Ci.	7	2
Harrogate	1010.2	+1	SW	1	b	45	75	5	2500	St.	1	-	1	•
Spurn Head	1011.9	+1	WSW	2	bc	46	85	6	1500	St.	4	-	4	•
Birmingham (Edgbaston)	1012.8	-1	SSW	3	bc+	45	75	6	-	-	0	Ci.	5	2
Cranwell	1012.4	0	WSW	3	b	48	75	6	-	-	0	Ci.	1	1
Gorleston	1013.7	+1	WSW	2	b	48	85	6	-	-	0	-	0	•
Valentia (Cahirciveen)	1000.4	-10	SE'E	6	cr$_o$	50	85	8	1500	St.	6	A.St.	10	2
Roches Point	1006.3	-9	S	4	c	50	92	7	1500	Cu.Nb.	9	-	9	•
Pembroke (St. Ann's H.)	1009.2	-2	S	2	c+	50	97	8	2500	Cu.	4	A.St.	8	•
Ross-on-Wye	1012.2	0	SSW	2	c	47	75	7	-	-	0	Ci.St.	8	2
Leafield	1013.4	0	SW	3	bc+	45	85	7	-	-	0	Ci.St	7	2
Winchester (Worthy Dn.)	1014.3	-2	SW	2	bc+	49	75	6	-	-	0	A.Cu.	7	1
S. Farnborough	1014.5	-1	SW	2	c	49	65	7	-	-	0	Ci.	8	2
London (Kew Obsy.)	1015.0	-1	SW'W	3	bc+	47	75	6	-	-	0	Ci.	7	2
Croydon	1014.9	-1	SW'S	3	bc+	49	75	6	-	-	0	Ci.	3	2
Shoeburyness	1015.6	0	SW	2	b	49	75	6	-	-	0	A.Cu.	1	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1015.0	+1	SSW	2	b	49	75	5	-	-	0	-	0	0
Scilly (St. Mary's)	1015.5	0	SW	2	b+	49	65	8	-	-	0	Ci.	2	2
Falmouth (Pendennis)	1008.3	-7	SSE	6	cr	51	97	6	2500	Nb.	9	-	9	•
Plymouth (Mt. Batten)	1011.1	-4	S	6	cr$_o$	52	85	7	4000	St.Cu.	10	-	10	•
Portland Bill	1012.1	-5	S	3	c	51	85	8	2500	Nb.	9	A.St.	10	2
Southampton (Calshot)	1012.8	-2	SSW	4	c+	52	75	8	1500	Cu.Nb.	7	A.St.	8	•
Dungeness	1014.2	-2	S	1	bc+	52	75	8	4000	Cu.	2	A.Cu.	7	5
Guernsey (St. Peter Port)	1015.8	+1	WSW	2	bc+	51	85	8	2500	Cu.	1	C.Cu.	6	•

Observations at 18h. G.M.T. 27th.

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1000.9	+1	S	2	bc	47	85	8	1500	Cu.	4	-	4	•
Stornoway	998.6	+2	SW	2	b-	43	92	7	4000	Cu.Nb.	2	-	2	0
Wick	1001.4	+1	SW	2	b	44	85	8	2500	St.Cu.	2	-	2	1
Tiree	1001.8	0	SW'S	4	c	46	92	7	2500	St.Cu.	8	-	8	4
Nairn	1002.1	•	SSW	1	bc-	42	85	8	1500	St.	3	-	3	•
Aberdeen	1002.9	+1	SSW	2	b	41	92	6	-	-	0	-	0	0
Malin Head	1003.0	-1	SSE	2	b	44	75	7	4000	St.Cu.	2	A.Cu.	2	1
Renfrew	1006.2	0	S	3	bc-	43	92	7	4000	St.Cu.	5	-	5	•
Edinburgh (Inchkeith)	1006.1	0	WSW	2	bc	44	85	7	800	St.	1	A.Cu.	3	0
Leuchars	1005.7	+1	SW	3	b-	42	92	6	2500	St.Cu.	1	-	1	•
Eskdalemuir	1007.3	0	S'W	3	bc-	40	92	6	1500	St.Cu.	6	-	6	•
Tynemouth	1007.5	0	SSW	2	bc-	43	85	6	2500	Cu.	4	Cu.Cu.	4	1
Blacksod Point	998.4	-2	S	4	drr	46	86	7	*	Nb.	10	-	10	5
Dunaghadee	1000.3	-3	SW	2	b	44	85	7	4000	Cu.	2	-	2	1
Birr Castle	1000.0	-7	SSE	1	drr	47	92	7	2500	Nb.	10	-	10	•
Holyhead	1006.6	-2	SSE	4	cr$_o$	48	85	6	1500	Nb.	5	A.St.	10	1
Liverpool (Bidston)	1008.4	-1	SE'S	3	c	43	85	6	-	-	0	A.St.	9	•
Chester (Sealand)	1008.6	-2	SSE	3	bc	42	85	6	-	-	0	A.St.	5	•
Harrogate	1010.2	0	S	1	b	40	85	5	2500	St.	1	-	1	•
Spurn Head	1010.9	0	SSW	3	bc+	42	97	6	1500	St.	5	-	5	1
Birmingham (Edgbaston)	1010.6	-1	SE	2	c+	43	85	6	-	-	0	A.St.	10	•
Cranwell	1011.7	-1	S	3	c	40	92	6	5700	St.Cu.	5	A.St.	9	•
Gorleston	1013.0	0	SSW	3	bc	43	85	6	-	-	0	Ci.St.	5	0
Valentia (Cahirciveen)	992.3	-9	SE'E	6	c	52	85	8	1500	St.	8?	-	8?	4
Roches Point	998.1	-8	SE	5	crr	50	97	6	800	Nb.	9	-	9	6
Pembroke (St. Ann's H.)	1001.2	-4	SE	3	drr	50	97	6	800	Nb.	10	-	10	4
Ross-on-Wye	1009.5	-2	SSE	3	drr	47	92	6	1500	Nb.	10	-	10	•
Leafield	1010.7	-3	SE	3	dr$_o$	43	85	7	5700	Nb.	10	-	10	•
Winchester (Worthy Dn.)	1011.5	-3	S'E	3	dr	47	92	7	1500	Nb.	10	-	10	•
S. Farnborough	1011.9	-3	SE	2	c	47	85	6	1500	St.	7	A.St.	10	•
London (Kew Obsy.)	1012.7	-3	SSE	3	c	47	85	5	-	-	0	A.St.	9	•
Croydon	1013.3	-2	SSE	3	c	46	85	5	4000	St.Cu.	2	A.St.	10	•
Shoeburyness	1013.9	-1	S	2	bc	44	92	8	-	-	0	A.Cu.	5	•
Clacton-on-Sea	1013.7	-1	S	3	bc+	46	92	7	2500	St.	7	-	7	2
Felixstowe	1014.3	-1	SSE	3	b	46	85	6	-	-	0	-	0	0
Lympne	1014.3	0	S	3	c+	47	85	8	-	-	0	A.St.	10	•
Scilly (St. Mary's)	1000.4	-7	S'E	7	drr	51	97	5	2500	Nb.	10	-	10	7
Falmouth (Pendennis)	1004.6	-4	S	8	dR-	50	97	5	1500	Nb.	10	-	10	6
Plymouth (Mt. Batten)	1007.4	-5	SSE	6	drr	51	97	5	4000	Nb.	10	-	10	5
Portland Bill	1009.6	-4	S	5	dr$_o$	51	86	7	1500	Nb.	10	-	10	5
Southampton (Calshot)	1012.4	-2	S'E	5	dr$_o$	51	85	7	1500	Nb.	10	-	10	0
Dungeness	1014.0	-3	SW	3	c+	51	92	8	4000	St.Cu.	8	-	8	4
Guernsey (St. Peter Port)	1011.0	-4	S	4	drr	52	92	6	1500	Nb.	10	-	10	6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Probability as to Sunshine
		24 HOURS ENDED 9h.						YESTERDAY.				TO-DAY.	
Kew	18	bfwb	bcc	orrm$_o$	49	47	45	Tr	15	4.6	*	*	S
Croydon	244	bbcz$_o$	bccz$_o$	cm$_o$rr$_o$	50	46	41	-	13	5.2	*	*	S
Greenwich (Royal Obsy.)	149	b	bc e c	cddrr	50	46	31	-	15	4.6	73	93	S
City (Bunhill Row)	89	*	*	*	*	*	*	*	*	0.8	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	47	41		17	3.6	70	87	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	3.8	*	*	*
Camden Square	110	b	bc	*	49	47	*	-	19	*	*	99	*
Kensington Palace	80	bbcm	bccm	*	50	47	44	-	17	*	(At 18h. .19)	96	*
Hampstead Observatory	460	"	"	*	47	44	40	1	20	3.9	*	97	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
1.3	18h 27m	0.3	14h 5h 28th

Kew Observatory

Max.	Time.	Min.	Time.
0.7	9h 27m	0.1	6h 28

POLE STAR RECORD at Greenwich Obsy.

Exposure from 2h 17m to 2h 6h 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
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.

28th. and 29th. NOV., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.39	11.41	15.43
	7.40	11.41	15.42
Greenwich	7.40	11.48	15.55
Wick	7.42	11.48	15.54
	8.32	12.0	15.28
Valentia	8.34	12.1	15.27
	8.23	12.29	16.34
	8.25	12.29	16.33

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

M.O. Form 2370.

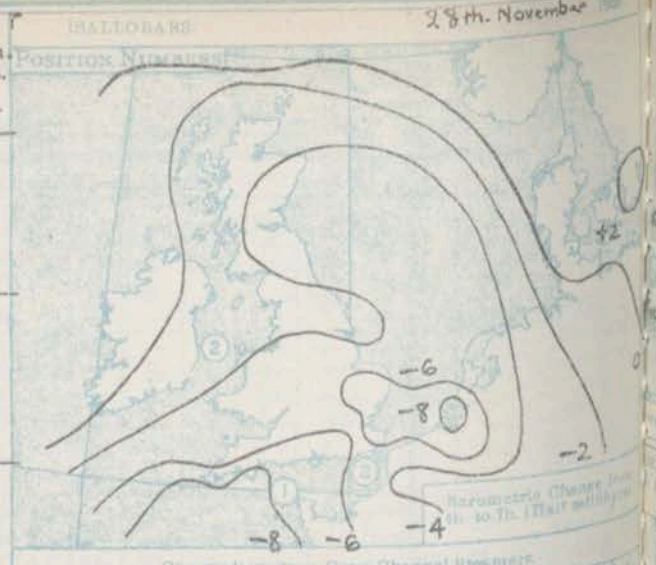
SUMMARIES FOR THE PAST 24 HOURS.

SUN 27th. Hours.

STATIONS.	WEATHER. 7h.-13h. 27th.	13h.-18h. 27th	18h. 27th to 1h. 28th.	1h.-7h. 28th.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on Grass	RAINFALL† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Hours.
Lerwick	bbc	bc	bc	bc	48	45	.	-	-	-	-	3·6
Stornoway	bc p bc	bc p b	b pr b	b[p] bc	48	42	.	·3	9·00	2	21100	0·9
Wick	b-bc	b-bc	b-bc	b[p] bc	46	42	.	-	-	-	-	.
Tiree	pr bc	bc	cr r	r c	50	43	38	·03	8·00	3	2400	3·3
Nairn	bc	bc	bcx	bc	47	36	.	-	-	-	-	4·9
Aberdeen	bzz	bz	brm	bbcorrm	45	39	31	-	-	0·6	6.30	4·3
Malin Head	bapr	bcc b	cd d	cd c	46	40	.	0·2	8·00	1	2200	2·6
Renfrew	bzm p	cp cbc	bcb, c	r r, r	46	34	28	0·2	11·00	1	2400	0·9
Edinburgh (Inchkeith)	b-bc	b-bc	bcc	oir	46	41	32	-	-	Tr	2·30	0·0
Lenchars	bwbcb	bc bm	bm bcm	bcm crrm	45	35	27	-	-	0·5	4·30	3·0
Eskdalemuir	cpr	cpr bc	bco or	orr rd d	44	36	32	/	8·00	2	2400	0·2
Tynemouth	bfff	bc	bcoir	oir	48	40	35	-	-	1	1·30	.
Blacksod Point	pbc	bcr	rr	bc	50	45	.	01	.	0·3	.	.
Donaghadee	b	b	orrir	ir off	48	41	.	-	-	5	21100	.
Birr Castle	bbc	bcorr	cr bc	bcco	47	47	38	/	15·30	Tr	21100	2·2
Holyhead	bbc	cm	r r c	cm d	51	46	45	Tr.	17·30	2	21100	3·4
Liverpool (Bidston)	bbcb	bcm	cr rc	c	46	42	40	-	-	0·5	21100	4·6
Chester (Sealand)	bm	bc	cirr m	cm	48	42	40	-	-	0·6	21100	4·3
Harrogate	b	b	borf	offrd d	45	39	36	-	-	3	21100	3·6
Spurn Head	bc	bc	cpr	c	47	41	.	-	-	Tr	2200	5·6
Birmingham (Edgbaston)	b	bcc	or r	or r	46	42	41	-	-	3	21100	4·1
Cranwell	b	bz m	cm r	orm	49	37	34	-	-	1	21100	5·1
Gorleston	b	b	bcc	coq	48	42	36	-	-	0·2	6.30	5·5
Valentia (Cahirciveen)	bccir	cirqurir	bccp o	o	53	50	45	-	12·30	0·1	21100	0·0
Roches Point	bbcc	c, crr	crr ado	offe	51	50	.	-	13·30	5	21100	.
Pembroke (St. Ann's H.)	bcc	bcorr	orrff	offdd	52	49	.	-	11·30	7	21100	0·9
Ross-on-Wye	bbcc	cbccor	rr r r	r r	49	47	45	/	17·30	6	21100	4·0
Leafield	bbc	bccr	orr	or RRff	47	42	42	Tr.	17·30	10	21100	4·7
Winchester (Worthy Dn)	bm bm	bcm cr or	orr R	oRR m	51	46	45	·03	16·30	22	21100	4·0
S. Farnborough	bxc	c	orr	orr	50	46	44	-	-	14	21100	4·9
London (Kew Obsy.)	bfwb	bcc	orr	orrm	49	47	45	Tr.	8·00	15	21100	4·6
Croydon	bbcz	bccz	cm rr	om rro	50	46	41	-	-	13	21100	5·2
Shoeburyness	bm	bc	bccr	orr	50	44	42	-	-	12	2200	5·7
Clacton-on-Sea	bcz	bczbc	bc cor	orr	49	45	41	-	-	7	21100	5·4
Felixstowe	bwm z	bbccz	bz cr	corr	49	45	38	Tr.	-	5	2200	5·5
Lympne	b	bbcc	corr r	orrm m	49	46	35	-	-	11	21100	6·0
Scilly (St. Mary's)	bccir	corrf	orffe	ofrrm	52	49	.	9	12·30	15	21100	0·0
Falmouth (Pendennis)	bacq	amRqf	forfdq	ofry	52	50	.	11	13·30	20	21100	0·6
Plymouth (Mt. Batten)	bwcm	corrrm	oRRm	orrm	52	49	49	6	14·30	26	21100	0·8
Portland Bill	bcb	oRR	oRRm	oRRm	54	50	.	·3	16·30	21	21100	.
Southampton (Calshot)	b-bc	bcngrr	orrm	or r m	52	48	46	01	17·30	17	21100	4·0
Dungeness	bcbbc	bcc	cr circ	cr orr	52	48	.	-	-	10	21100	.
Guernsey	cbro	corr	o rrf	orrfr	54	51	50	·3	9·00	23	21100	1·0

† For code see page 1

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



Depressions crossing the British Isles from the West will maintain very unsettled weather generally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 28th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Winds from a southerly point, mainly strong, reaching gale force at times; cloudy, some rain; mild.	Unsettled.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Strong southeasterly winds, reaching gale force at times in exposed places; cloudy, some rain; mild.	
13. 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	Strong southerly winds, reaching gale force at times in exposed places; cloudy, some rain; mild.	

South Cone hoisted yesterday at 13h.50m in districts 5, 6, 19 and 20; at 17h.20m in districts 1,2,7, 8, 12, 17 and 18; and at 22h.35m. in districts 10, 11, 13A, 13B, 15 and 16.

W.A.P.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

SYNOPTIC CHART FOR 7h. THURSDAY, 28TH NOVEMBER, 1929.

Scale – 1:10,000,000

Nautical Miles. 100 0 100 200

Statute Miles. 100 0 100 200

H. 1004

1006 Bar.

1004

1002

1000

998

32 Snow +1

34 O'cast. +0

39 Fine -1

Changes

39 Showers. +1

Slight.

45 Rain +3

Barometer

47 Fine

43 Cloudy.

46 Cloudy.

46 Rain

42 Drizzle.

47 Cloudy.

48 Fine

50 O'cast.

Bar.

50 O'cast.

51 Cloudy

53 Drizzle.

Falling

53 Rain

53 Heavy rain

53 Rain

55 Cloudy

54 Rain

50 Cloudy

52 Cloudy.

61 Cloudy 1012

50 Cloudy. 1014

46 Cloudy. 1016

63 Fine 1010

LOW

"OLYMPIC"

52 54 Sea. Fine

LOW.

988

990

992

994

996

998

1000

1002

1004

1006

1008

1010

43 Rain

Barometer

39 Fine

Steady or HIGH.

45 Showers

30 Cloudy. 1012

Rising

43 Fine

43 Cloudy.

Slowly

41 O'cast.

39 Fog.

46 Rain

48 Rain

51 Rain

46 Rain

41 O'cast.

46 Rain

41 O'cast.

50 Cloudy

39 Mist

39 O'cast.

54 Rain

41 Cloudy.

46 Cloudy.

HIGH.

50 Cloudy.

45 Fine 1018

Slowly

Rising

Falling

Briskly.

Steady

Cs 5

Cu 6 Sc 6 Cu 6 Nblo. Sc 6 Sc 7 Sc 10 Sc 9 Sc 10 Nblo Sc 10 Sc 10 Sc 6 Sc 10 Sc 8 (St) Sc 6 Nblo Nblo Sc 10 Sc 10 Nblo Nblo Sc 10 Nblo Nblo Nblo Nblo Nblo Nblo Nblo.

47 46 38 46 44 42 odad. 46 jf 47 ffo 44 odad. 46 47 ffo 49 orr 46 orr 49 ororo 52 ororo 51 46 orr odad. ororo 52 orr 53 53 53 orr orr 52 orr ororo orr orr ORR. 53 orr

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 28th November 1929. No. 332.

STATIONS.	Height above M.S.L. in feet	Observations at 1h. G.M.T. 28th. Barom. at M.S.L. mb.	Change in 3 Hours	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 28th. Barom. at M.S.L. mb.	Change in 3 Hours	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain 0-1
Lerwick	56	1001·3	0	S	2	bc	47	85	8	1500	StCu	3	ASt	5	1001·1	0	S	2	bc	47	85	8	1500	Cu	5	ASt	7	0
Stornoway	80	1000·0	0	SW	2	b-	•	•	8	•	•	•	•	2	9954	-2	-	0	c/r	43	92	7	2500	CuNb	8	-	8	0·3
Wick	81	1001·6	0	SW	3	b	44	85	8	2500	StCu	1	-	1	9985	-3	S	5	c	46	85	8	1500	StCu	6	ASt	10	4
Tiree	23	•	•	•	•	•	•	•	•	•	•	•	•	•	9940	-3	SSE	5	c	46	92	7	4000	StCu	6	ASt	10	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	9968	•	-	0	bc+	38	85	8	2500	CuNb	7	-	7	1
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	9994	-4	SE'S	4	orr	46	92	6	1500	Nb	10	-	10	
Malin Head	81	995·8	-6	SE'S	5	cd$_o$d$_o$	47	92	6	1500	Nb	4	ASt	10	9926	-2	SSE	1	c	47	97	7	1500	StCu	9	-	9	1
Renfrew	89	•	•	•	•	•	•	•	•	•	•	•	•	•	9969	-4	NE	4	cd$_o$	42	97	6	2500	St	7	ASt	10	0
Edinburgh (Inchkeith)	160	1003·8	-3	ESE	1	o	42	85	8	1500	St	10	-	10	9986	-5	E	1	o	44	92	7	1500	St	10	-	10	•
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	9975	-7	SE	3	c/r	45	92	6	800	St	10	-	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	9968	-4	N	1	od$_o$f$_o$	42	97	5	450	St	10	-	10	2
Tynemouth	67	1004·6	-3	S	2	or$_o$	43	97	6	1500	Nb	10	-	10	9977	-4	SSE	3	ojp	46	97	6	1500	Nb	10	-		
Blacksod Point	18	992·4	-4	S	3	or	48	92	6	•	Nb	10	-	10	9913	-1	W	1	bc	48	92	7	•	-	0	ACu	4	1
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	9929	-2	SW	1	ffo	47	97	3	1500	St	10	-	10	•
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	9919	-2	S	1	o	50	97	6	2500	St	10	-	10	1
Holyhead	28	997·8	-7	S'E	6	c	51	85	6	1500	St	7	ASt	10	9949	-3	S'E	3	c/d	51	92	8	800	St	8	ASt	8	•
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	9951	-4	SSE	4	c	48	92	7	2500	StCu	8	-	9	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	9956	-4	SE'S	3	c	48	92	6	1500	St	9	-		
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	9986	-3	SE	2	od$_o$d$_o$	44	97	3	2150	St	10	-	10	4
Spurn Head	29	1006·0	-3	S'W	5	o	45	97	6	4000	Nb	10	-	10	9990	-3	S'E	5	c	46	97	7	4000	StCu	6	ASt	10	
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	9972	-5	SE	3	or$_o$r	48	97	7	1500	Nb	10	-	10	
Cranwell	336	1006·2	-7	SSE	4	or$_o$	43	97	5	450	St	10	-	10	9993	-5	SSE	4	or$_o$r$_o$	46	97	6	450	Nb	10	-	10	4
Gorleston	14	1009·9	-5	S'W	4	c	45	92	7	-	-	0	ASt	10	1002·6	-5	S'E	6	or$_o$r$_o$	48	92	6	800	Nb	10	-		
Valentia (Cahirciveen)	30	992·8	0	SE	2	o	53	97	6	•	St	10	-	10	9919	-1	S	1	o	50	97	6	800	St	10	-	10	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	9924	-3	SW	1	ffo	51	97	3	450	St	10	-	10	2
Pembroke (St. Ann's H.)	150	996·9	-3	S	3	od$_o$d$_o$	52	97	2	450	St	10	-	10	9929	-5	SSE	1	od$_o$d$_o$	53	97	0	2150	St	10	-	10	•
Ross-on-Wye	252	•	•	•	•	•	•	•	•	•	•	•	•	•	9952	-4	SE	2	cr$_o$r$_o$	52	97	6	800	Nb	5	ASt	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	9969	-5	SE'S	3	oRR	48	97	2	2150	St	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	9987	-6	S	4	oRR	51	97	6	450	Nb	10	-	10	•
S. Farnborough	287	•	•	•	•	•	•	•	•	•	•	•	•	•	9989	-6	S	4	orr	52	97	6	800	Nb	10	-	10	•
London (Kew Obsy.)	18	•	•	•	•	•	48	•	•	•	•	•	•	•	9994	-5	S'E	3	orr	51	97	5	1500	Nb	10	-	10	•
Croydon	264	1007·3	-7	S	4	crr	48	92	6	1500	Nb	8	ASt	10	10005	-7	SSW	4	orr	51	92	6	450	Nb	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·3	-6	SSW	3	oRR	49	97	6	450	Nb	10	-	10	4
Clacton-on-Sea	56	•	•	•	•	•	•	•	•	•	•	•	•	•	1002·4	-6	SSE	4	orr	48	92	6	2500	St	10	-	10	5
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	10023	-7	SSE	5	orr	48	92	7	800	Nb	10	-	10	•
Lympne	350	1008·9	-7	SE'S	4	or$_o$r$_o$	48	92	6	800	Nb	10	-	10	10023	-7	S	4	orr	50	97	3	2150	Nb	10	-	10	2
Scilly (St. Mary's)	163	997·2	-3	S	4	ffo	54	97	2	800	St	10	-	10	9907	-9	-	0	or$_o$r$_o$	53	97	4	2500	Nb	10	-	10	2
Falmouth (Pendennis)	200	1000·1	-1	SW	5	for	54	97	2	220	St	10	-	10	9918	-6	S'W	4	orr	53	97	6	2500	Nb	10	-	10	4
Plymouth (Mt. Batten)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	9922	-9	SSE	5	orr	53	97	7	800	Nb	10	-	10	6
Portland Bill	57	1001·0	-7	S'E	6	oRR	52	92	5	800	Nb	10	-	10	9953	-6	S'E	6	oRR	53	92	5	800	Nb	10	-	10	6
Southampton (Calshot)	19	1005·9	-7	SE'S	5	or$_o$r$_o$	50	92	6	800	Nb	10	-	10	9991	-7	S'W	6	or$_o$r$_o$	53	92	6	800	Nb	10	-	10	
Dungeness	20	1008·5	-7	SSE	4	cr$_o$	51	85	8	2500	CuNb	8	-	8	1001·9	-5	SSW	4	orr	52	97	7	2500	Nb	10	-	10	
Guernsey (St. Peter Port)	173	1004·6	-5	SSW	3	oRR	53	97	3	800	Nb	10	-	10	9972	-7	SSW	4	orr	53	97	6	1500	Nb	10	-		

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperatures. Min. 9h.-24h. to 9h. 27th	Temperatures. Max. 9h.-17h. 27th	Rainfall.† Night 17h.-9h. 26th-27th	Rainfall.† Day 9h.-17h. 27th	Sunshine. Sunrise to Sunset. 27th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bc	bcc	37	47	-	-	6·0
Douglas (I. o. M.)	c	bcp	41	50	3	0·5	2·0
Llandudno	b	cbcc	44	50	2	-	4·0
Colwyn Bay	bbc	cbbcc	40	49	3	-	4·0
Rhyl	bc	bc	39	51	1	-	4·3
Wallasey	bbc	bc	38	49	5	-	4·4
Southport	b	bbcc	41	48	9	-	4·1
Blackpool	c	c	44	48	14	-	2·8
Morecambe	cbc	bbc	44	49	5	-	3·8
Ilkley	bc	bcc	40	47	17	-	2·7
Cleethorpes	b	b	37	48	-	-	5·2
Mablethorpe	bm$_o$w	bbm$_o$w	37	47	-	-	5·6
Skegness	bwb	bbc	36	48	Trace	-	5·2
Aberystwyth	rcbc	cojp	48	50	1	-	3·8
Bath	bbc	cpo	37	50	4	0·3	2·9
Cheltenham	bcb	bco	39	50	-	-	4·1
Leamington Spa	bc	bc	35	49	0·3	-	3·0
Lowestoft	b	b	37	48	-	-	6·5
Harwich & Dovercourt	bn	bcm	37	47	-	-	2·8
Maldon	b	b	35	49	-	-	4·4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	bcco	orr	44	50	1	tr	1·7
Bude	bcc	corr	40	50	2	3	1·1
St. Ives	c	rr	43	55	1	11	0·0
Penzance	c	corr	43	53	2	6	1·6
Paignton	bcwn	cqpqrq	38	52	-	3	1·9
Torquay	bcm	bcomq	41	53	-	1	2·1
Jersey	rcbc	pc	47	52	2	1	3·2
Weymouth	bcrb	cr	43	55	-	-	3·0
Bournemouth	bbc	or	36	53	-	Trace	3·7
Ventnor	ohrbc	coc	43	55	3	-	4·7
Portsmouth (S'thsea)	b	co	42	53	-	-	4·6
Bognor Regis	b	bcc	40	53	0·5	-	4·7
Littlehampton	bc	bcc	37	52	0·5	-	4·6
Worthing	b	bcc	39	53	0·3	-	4·3
Brighton	bcb	bc	41	51	0·5	0·1	3·3
Eastbourne	bbcc	pbc	43	52	/	-	3·7
Hastings	b	bbcco	41	52	/	-	3·7
Folkestone	wbzbc	bc	39	50	-	-	3·8
Dover	b	b bc	42	51	-	-	3·5
Deal	b	b	40	49	-	-	3·5
Tunbridge Wells	b	bbc	38	50	-	-	3·7
Ramsgate	b	bbc	41	51	-	-	3·9
Margate	bc	bc	40	51	-	-	3·4
Southend	b	b	39	52	Trace	-	3·4

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

* Information not usually received.

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

‡ For code see page 1.

§ See footnote page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24844 Friday, 29th November, 1929.

Observations at 18h. 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	1000.0	-2	SE	3	orr	47	85	6	1500	Nb	10	-	10	•
Stornoway	993.0	-4	E	1	c	47	85	6	4000	StCu	7	A.Cu	8	•
Wick	994.9	-4	SSE	5	o	47	97	8	1500	Nb	10	-	10	•
Tiree	992.1	-1	SSE	4	c	48	92	6	4000	St	9	A.St	10	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	995.4	-4	SSE	3	odd	47	97	4	1500	Nb	10	-	10	2
Malin Head	992.3	0	S	1	c	50	92	7	1500	StCu	9	-	9	•
Renfrew	994.4	-2	E	3	mmo	45	97	4	1500	St	10	-	10	2
Edinburgh (Inchkeith)	995.1	-3	E	2	o/r	45	97	7	800	St	10	-	10	•
Leuchars	994.7	-2	SE	2	cr$_o$	47	92	6	2500	St	9	-	9	2
Eskdalemuir	993.1	-4	NNE	3	o/r	45	92	7	800	St	10	-	10	2
Tynemouth	993.6	-5	SSE	2	o/p	47	97	6	1500	Nb	10	-	10	2
Blacksod Point	991.6	0	-	0	bc	50	88	7	•	-	0	A.Cu	6	•
Donaghadee	991.6	-2	SSE	1	c	50	97	6	4000	StCu	6	A.Cu	8	•
Birr Castle	991.0	-1	SW	1	c	53	92	6	2500	St	8	A.Cu	9	•
Holyhead	991.6	-4	N'E	3	c/r	50	97	6	2500	St	6	A.St	10	1
Liverpool (Bidston)	989.9	-6	SE'E	3	or$_o$r$_o$	49	97	4	1500	St	10	-	10	•
Chester (Sealand)	990.2	-7	SE'E	1.	od-	50	97	4	800	St	10	-	10	2
Harrogate	993.0	-5	SE	1	od$_o$d	46	97	1	2150	St	10	-	10	•
[illegible]n Head	992.0	-4	SSE	5	orr	47	97	6	2500	Nb	10	-	10	•
Birmingham (Edgbaston)	989.7	-9	SE	2	or-	51	92	3	1500	Nb	10	-	10	2
Cranwell	991.7	-10	SE'S	4	or$_o$r$_o$	50	97	3	450	Nb	10	-	10	•
Gorleston	995.8	-6	S	6	or$_o$r$_o$	50	97	6	800	Nb	10	-	10	•
Valentia (Cahiriveen)	991.1	0	S	1	c	52	92	7	800	St	8	ASt	10	2
Roches Point	991.8	-1	SW	2	ff$_o$	51	97	2	220	St	10	-	10	•
Pembroke (St. Ann's H.)	989.7	-1	W	2	od$_o$d$_o$	53	97	6	450	St	10	-	10	2
Ross-on-Wye	987.8	-9	SE	1	orr	52	97	3	450	Nb	10	-	10	2
Leafield	988.8	-9	S'E	5	oRR	52	97	6	220	St	10	-	10	2
Winchester (Worthy Dn.)	992.1	-8	SSW	5	odd	54	97	5	220	Nb	10	-	10	2
T. Farnborough	991.9	-8	SSW	4	od$_o$d$_o$	52	97	6	450	Nb	10	-	10	2
London (Kew Obsy.)	992.2	-9	S'W	4	cdd	53	97	5	800	Nb	9	A.St	10	2
Croydon	993.3	-9	SSW	4	or$_o$r$_o$	52	97	4	450	Nb	10	-	10	2
Shoeburyness	995.2	-7	SSW	4	or$_o$r$_o$	50	97	7	800	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	995.6	-9	SE'S	6	orr	50	97	6	220	Nb	10	-	10	2
Selly (St. Mary's)	996.0	-9	S	5	orr	50	97	5	220	Nb	10	-	10	2
Falmouth (Pendennis)	993.6	+3	W'S	5	or$_o$	52	97	6	2500	Nb	10	-	10	•
Plymouth (Mt. Batten)	993.1	+4	WSW	6	orr	54	97	6	1500	Nb	10	-	10	•
Portland Bill	993.9	+3	SW	5	od$_o$d$_o$	53	97	6	2150	St	10	-	10	2
Thampton (Calshot)	995.5	-4	SW	7	orr	55	92	5	800	Nb	10	-	10	1
Igeness	993.4	-7	SSW	7	cjp	54	92	6	450	StC	10	-	10	•
Guernsey (St. Peter Port)	995.6	-8	SSW	5	orr	52	92	7	1200	Nb	10	-	10	•
	996.6	0	WSW	5	or	56	97	5	1500	Nb	10	-	10	•

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	997.7	-3	SE	4	or$_o$r$_o$	47	85	7	1500	Nb	10	-	10	•
Stornoway	993.0	0	-	0	o+	44	97	6	2500	St	10	-	10	0
Wick	993.7	-1	SSE	4	c	47	97	7	1500	St	5	CSt	8	3
Tiree	992.1	0	SE'S	2	o	47	97	6	4000	St	10	-	10	1
Nairn	993.4	•	-	0	c+	42	85	6	1500	St	8	-	8	•
Aberdeen	994.3	-1	SSE	3	oDD	48	97	4	1500	Nb	10	-	10	1
Malin Head	992.4	0	-	0	c	48	97	7	1500	StCu	9	-	9	0
Renfrew	994.1	+1	ENE	2	od$_o$d$_o$	45	97	4	800	St	10	-	10	•
Edinburgh (Inchkeith)	993.4	-1	NE	2	mo+	45	97	4	450	St	10	-	10	0
Leuchars	993.2	0	E	2	or$_o$r$_o$	47	97	5	450	Nb	10	-	10	•
Eskdalemuir	992.3	0	NE	3	od$_o$	44	92	5	800	St	10	-	10	•
Tynemouth	991.0	-2	N	1	od$_o$d$_o$	48	97	2	1500	Nb	10	-	10	2
Blacksod Point	991.9	0	-	0	c	48	92	6	•	-	0	ASt	10	2
Donaghadee	991.8	0	S'E	1	ff$_o$	50	92	3	1500	St	10	-	10	0
Birr Castle	991.9	+1	S	1	or$_o$r$_o$	48	97	6	2500	Nb	10	-	10	•
Holyhead	992.7	+3	-	0	o	50	97	5	1500	St	10	-	10	0
Liverpool (Bidston)	991.0	+2	NW	2	orr	47	97	3	1500	Nb	10	-	10	•
Chester (Sealand)	990.2	+4	NW	4	orr	47	97	3	450	Nb	10	-	10	•
Harrogate	989.9	-1	NW	2	orr	46	97	5	2500	Nb	10	-	10	•
[illegible]n Head	987.6	-2	SE'S	4	orr	48	97	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	988.6	+6	W	4	or$_o$r$_o$	49	97	5	1500	Nb	10	-	10	•
Cranwell	986.4	-5	S	2	or$_o$r$_o$	51	97	4	450	Nb	10	-	10	•
Gorleston	990.0	-6	S'W	5	o/r	51	97	6	1500	Nb	10	-	10	4
Valentia (Cahiriveen)	992.3	+2	S	3	c	51	92	8	800	St	9	-	9	5
Roches Point	991.0	+2	SW	2	c	51	97	6	1500	StCu	10	-	10	5
Pembroke (St. Ann's H.)	993.6	+4	W	4	c/r	53	85	6	1500	StCu	3	ASt	10	
Ross-on-Wye	992.5	+8	WSW	4	or$_o$	53	85	6	1500	Nb	10	-	10	•
Leafield	991.9	+7	W'S	5	or	51	92	8	800	Nb	10	-	10	•
Winchester (Worthy Dn.)	994.7	+6	W'S	4	c/r	52	92	7	1500	StCu	7	ASt	9	•
T. Farnborough	993.6	+5	WSW	5	o/r	54	85	7	450	Nb	10	-	10	•
London (Kew Obsy.)	992.5	+4	WSW	5	bc-	55	85	8	2500	StCu	7	-	7	•
Croydon	992.7	+3	W'S	7	c-	55	85	6	1500	StCu	6	ASt	8	•
Shoeburyness	991.9	-4	SWW	6	c	56	85	8	1500	StCu	9	-	9	•
Clacton-on-Sea	991.2	-5	SSW	5	cd	51	92	7	2500	Nb	8	-	8	5
Felixstowe	991.8	-4	S	6	o/r	52	97	6	800	St	10	-	10	6
Lympne	994.5	+2	SW	6	od$_o$	53	92	7	220	St	10	-	10	•
Selly (St. Mary's)	997.0	+3	W'S	5	c	52	97	7	4000	CuNb	8	-	8	5
Falmouth (Pendennis)	997.4	+1	WSW	6	c-	53	92	7	2500	Nb	8	-	8	4
Plymouth (Mt. Batten)	997.5	+6	WSW	5	c	53	92	7	1500	Nb	7	ASt	8	5
Portland Bill	995.7	+8	W'S	6	bc/r	53	85	8	1500	StCu	4	-	4	7
Thampton (Calshot)	995.9	+8	WSW	5	bc-	54	85	7	1500	St	5	-	5	6
Igeness	993.5	-2	SW	6	bc/r	54	97	7	2500	StCu	6	-	6	5
Guernsey (St. Peter Port)	1002.0	+9	WSW	4	cr	54	92	7	2500	StCu	10	-	10	6

LONDON OBSERVATIONS.

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

	Sunshine hours.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility as
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	crrm$_o$	cdm$_o$c	becpcm	56	49	45	9	0.2	0.0	*	*	A
Croydon	244	orrr$_o$m	mmcrd$_o$m	cmbcm$_o$	55	50	45	14	-	0.0	*	*	S
Greenwich (Royal Obsy.)	149	crr	crd d$_o$	cld$_o$cr	55	50	41	6	2	0.0	94	98	S
City (Bunhill Row)	80	'	"	"	"	"	"	"	"	0.0	"	"	"
Westminster (St. James' Pk.)	27	•	•	•	56	50	45	7	•	0.0	87	87	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	or	orc	•	54	50	•	7	1	•	•	93	•
Kensington Palace	80	orr	orr	•	55	50	43	7	1	•	(At 18h.) 98		•
Hampstead Observatory	460	"	"	•	54	46	38	8	1	0.0	"	98	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
0.6	12h 28m	20.3	24h 28m to 5h 29m

Kew Observatory

Max.	Time.	Min.	Time.
0.1	12h 28m & 29d	20.1	21h 28m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 28th 17h. 0m. to 29th 6h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 30	4. 15	31
δ Ursae Minoris	13 30	3. 15	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 (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.

28th to 30th Nov., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.40	11.41	15.42
	7.42	11.42	15.41
Greenwich	7.42	11.48	15.54
	7.43	11.49	15.53
Wick	8.34	12.1	15.27
	8.36	12.1	15.26
Valentia	8.25	12.29	16.33
	8.26	12.30	16.32

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
be sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
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, wherever possible, the general character of the weather.
A "sandus" divides actual existing weather from preceding conditions, thus :—le/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 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

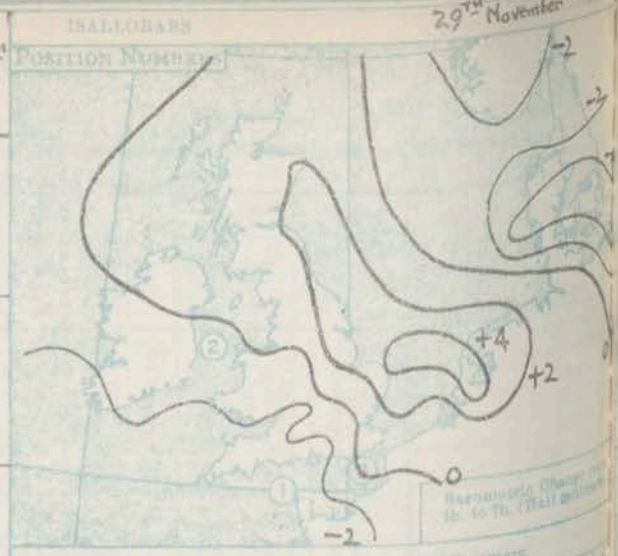
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 28th	WEATHER. 18h.-18h. 28th	WEATHER. 18h. 28th to 1h. 29th	WEATHER. 1h.-7h. 29th	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 28th Hours.
Lerwick	becorr	or,r,o	or,r,o	cr,r,c	48	46	.	2	11.00	9	<2100	0.0
Stornoway	c	c	c	p	48	41	.	–	–	0.2	4.30	0.4
Wick	cir,o	od,dc	copro	oid,c	48	46	.	0.6	9.00	0.2	24.00	.
Tiree	id,z,o	id,z,o	od,m,o	d,m,o	48	47	45	0.1	<8.00	0.2	<2100	0.0
Nairn	bccbc	bcc	cd,o	c	42	39	.	–	–	0.2	<2100	0.4
Aberdeen	orrddm	oDDmm	oDDr,r,m	oDDr,r,m	48	46	45	4	<8.00	2	<2100	0.0
Malin Head	cd,c	ce	ce	ce	51	46	.	0.1	9.00	Tr	6.30	0.9
Renfrew	od,omm	ommod,o	oddmom	omm	46	41	35	0.9	<8.00	1	<2100	0.0
Edinburgh(Inchkeith)	oir,o	oir,m,o	offr,r,o	or,r,ff	45	44	45	Tr	11.00	1	<2100	0.0
Leuchars	cm,o	coor,m,o	oir,m,o	or,d,o	47	45	45	0.6	16.30	4	<2100	0.0
Eskdalemuir	od,d,oid,o	oid,m,o	oid,c	cor,r,o	45	41	36	2	<8.00	1	<2100	0.0
Tynemouth	oid,o	od,d,ff	od,d,m	oid,o	48	46	43	0.3	<8.00	2	<2100	.
Blacksod Point ...	bbc	cfo	do	pbc	51	45	.	–	.	1	.	.
Donaghadee	cm,o	id,ff	ir,m,o	ir,ff	51	48	.	0.2	13.30	0.1	1.30	.
Birr Castle	oc	cor,o	od,d,ex	bcorr	53	42	30	Tr	17.30	2	<2100	0.1
Holyhead	c,dm,o	com,o	ir,m,o	bccm,o	52	49	46	0.3	11.00	2	<2100	0.0
Liverpool (Bidston) ...	omrr,o	ogrrf	fr,r,m	cbc	49	46	42	6	12.30	3	<2100	0.0
Chester (Sealand) ...	odRdm	rrfF	or,r,o	bcbm,o	50	46	38	8	9.00	3	<2100	0.0
Harrogate	ofFd,d,o	oFrr	orr	ocir	46	45	44	7	<8.00	12	<2100	0.0
Spurn Head	codorr	orrodorr	ormorr	orrcprbc	48	45	.	10	11.00	11	<2100	0.0
Birmingham(Edgbaston)	orr	orrr,o	or,r,c	c	51	45	43	18	<8.00	3	<2100	0.0
Cranwell	orrm	orr,dm	orrm	om bc	51	45	43	18	<8.00	4	<2100	0.0
Gorleston	or,rq	orrq	ocq	cbcq	52	48	41	14	<8.00	–	–	0.0
Valentia(Cahirciveen)	ocpbyc	cp,cpc	bc	cRbccir	62	50	46	1	9.00	3	1.30	0.0
Roches Point	FFoffoc	foep,c	c cid,c	co	53	50	.	0.1	16.30	0.1	<2100	.
Pembroke(St.Ann's H.)	oFrrm,o	orrcm,o	cr,bc	bcd,o	53	51	.	10	9.00	4	4.30	0.0
Ross-on-Wye	rr	Rrrr,o	q c	cor,o	53	48	44	18	<8.00	0.4	6.30	0.0
Leafield	offRR	oir	or cbc	bc	53	43	41	18	<8.00	0.1	<2100	0.0
Winchester (Worthy Dn)	oRRddm	oddedm,o	cbcb	bbcorr	54	49	45	14	<8.00	1	3.30	0.0
S. Farnborough ...	orrdd	odr,d,o,o	cbcp,o,b	bodr,r,o	55	48	39	13	<8.00	0.3	<2100	0.0
London (Kew Obsy.) ...	crrm,o	cdm,o,c	bccpc	cm,o	56	49	45	9	<8.00	0.2	22.00	0.0
Croydon	orr,m	omc,r,d,m	cm,o,bc	bcwcm,o	55	50	45	14	<8.00	–	–	0.0
Shoeburyness	oRro,r	orodcdc	cr,o,bc	cm,o	56	48	45	6	<8.00	0.3	<2100	0.0
Clacton-on-Sea ...	orr	orrcd	cdc	cbc	51	47	44	12	<8.00	0.5	<2100	0.0
Felixstowe	orrm,o	orrm,r,o	om,o ir,o	om,o c	52	46	44	11	<8.00	Tr	<2100	0.0
Lympne	orrfm,o	orrddfm,o	od,o bbc	bccom,o	53	50	47	16	<8.00	Tr	<2100	0.0
Scilly (St. Mary's) ...	ofr	oirc	bcp	bccp,o	53	50	.	7	<8.00	0.6	<2100	0.1
Falmouth (Pendennis)	ofm,rr	om,rc	cbccd,m,o	cd,m,R	54	53	.	10	<8.00	4	2.00	0.0
Plymouth(Mt.Batten)	orrddmq	oddrrmq	cq/b	bco,R,Rm,o	54	50	50	7	<8.00	2.0	2.30	0.0
Portland Bill	oqrorr	orrr,o	bc	bcc	56	53	.	6	<8.00	–	–	.
Southampton(Calshot)	o,r,rrmq	cicqmc	cbcpr	bccd,o	55	51	49	11	<8.00	0.3	2.00	0.0
Dungeness	orr	orrc,o,bc	bcb	bbccd,o	55	52	.	11	<8.00	Tr	3.30	.
Guernsey	oror	orore	bccpr	orprc	56	52	50	4	<8.00	4	2.00	0.0

† For code see page 1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
1	28th 13h	St Helier	SW	8	d,o	54	54
3	29th 2h	Arundel	WSW	5	c	51	50

GENERAL INFERENCE.

Depressions over the North Sea and off Western Ireland are moving eastward. Weather will continue mild and unsettled generally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 29th November, 1929.	Further Outlook.
1. S.E. England	ALL DISTRICTS.	None issued.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Moderate southerly winds, fresh at times; cloudy,	
6. South Wales	some rain; mild.	
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		

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0910 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

Trace = rain has fallen, but amount less than 0.05 in.

SYNOPTIC CHART FOR 7h. FRIDAY, 29TH NOVEMBER, 1929.

Scale - 1/10,000,000

Nautical Miles

Statute Miles

H. 1010 Bar. 1008 1006 1004 1002

15 32 Snow +0.

10 34 O'cast +3

Rising

2 39 Cloudy. +3

0 36 Fine +0.

slowly.

0 34. Fine -1

42 Rain 1

5 47 Cloudy.

5 47 O'cast.

44 Mist.

5 48. Drizzle.

2 47 Rain

Barometer

51 Rain 5

5 51 Cloudy.

2 47 O'cast.

Barometer 996 994 992.

LOW. 45 Rain 10

X 1h. 29th

Rising

46 Fine 10

52 O'cast. 15

18h. 28th

5 46 Cloudy.

49 Fine 10

28 52 O'cast.

10 52 Heavy rain 13h. 28th

10 51 Cloudy.

slowly.

10 50 O'cast.

10 50 Cloudy.

15 53 Cloudy.

10 54 Fine

Falling 7h. 28th

21 52 Cloudy

28 54 Cloudy.

5 50 Rain

5 50 R'ain

2 43 Fine

43 5 Fine

21 52 Cloudy.

2 43 Cloudy

HIGH

2 48 Cloudy

10 50 Rain

1 61 Fine

28 59 Cloudy.

15 54 Cloudy. 1010

0 Cloudy. 1014

1012

1008

1006

1004

1002

1000

998

996

994

992

990

988

986

984

982

980

978

976

LOW. "MAJESTIC" 15 53 54 Seq. Cloudy.

43 10 Cloudy. Barometer

5 36 Fine

Falling HIGH.

0 27 Cloudy.

45 15 Fine

0 47 Cloudy.

43 10 Cloudy.

1008

1006 slowly.

53 15 Cloudy 1004

1002

EXPLANATION.

BAROMETER. Isobars are drawn for intervals of two millibars.

WIND. Arrows fly with the wind. Position 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 ¼ to ½ clouded. Sky less than ½ clouded.

Overcast sky. Sky more than ½ clouded.

Thunder. Rain falling.

Fog. Mist.

Thunderstorm.

SEA DISTURBANCE.

Rough. Very Rough.

ISOBARS. Barometric changes from hour to hour are entered alongside the words for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Friday, 29th November 1929. No. 333

STATIONS.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 29th: Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Observations at 7h. G.M.T. 29th: Barom. at M.S.L. mb.	Change in 3 Hours.*	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility† 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Rain 0-1
Lerwick	34	997·9	0	SE	4	or,c	47	92	7	1500	Nb	10	-	10	998·3	+1	SE	3	c	47	85	7	1500	StCu	5	ASt	9	·0
Stornoway	30	995·5	+1	-	0	c	*	*	6	*	*	*	*	10	994·7	+1	-	0	cr,	42	92	7	4000	CuNb	8	-	8	·3
Wick	81	994·7	+1	S	3	o|r	48	97	7	1500	Nb	10	-	10	996·2	+1	S	2	c	47	97	7	1500	St	6	ASt	10	·1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	994·4	0	S'E	1	c	48	97	6	4000	St	9	ASt	10	·
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	995·4	0	-	0	c	40	92	6	1500	St	9	-	9	·1
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	996·4	+2	SE	2	o	47	97	6	1500	Nb	10	-	10	
Malin Head	51	994·0	+1	S	1	c	48	92	7	2500	StCu	9	-	9	994·2	0	S	2	cd,	48	92	7	2500	StCu	9	-	9	2
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*	996·6	+1	-	0	mmo	44	97	4	800	St	10	-	10	·0
Edinburgh (Inchkeith)	100	994·8	+2	NW	1	fog	45	97	2	220	Nb	10	-	10	995·5	+1	WSW	1	fog	45	97	2	220	Nb	10	-	10	·0
Leuchars	50	*	*	*	*	*	*	*	*	*	*	*	*	*	995·6	+1	-	0	cdo	45	97	5	800	Nb	10	-	10	·
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	996·3	+1	SSW	1	or,r,	43	97	6	450	Nb	10	-	10	·1
Tynemouth	67	993·2	+4	WNW	2	od,d,	47	97	6	1500	Nb	10	-	10	996·1	+2	W	1	o|d	47	97	6	1500	Nb	10	-	10	
Blacksod Point	18	992·6	0	-	0	c	47	85	7	*	-	0	ASt	10	992·6	0	N	1	bc	46	92	8	*	Cu	5	-	5	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	994·3	0	-	0	ffo	48	97	3	1500	St	10	-	10	·0
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	993·6	-1	S	1	crr	47	97	7	2500	Nb	8	ACu	9	
Holyhead	28	996·1	+3	SW'S	3	bc-	50	92	6	4000	St	4	-	4	996·6	-1	SSE	2	c	51	97	6	1500	St	9	-	9	·0
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	996·6	0	S	3	bc	47	92	7	2500	Nb	2	ACu	6	·
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	996·5	0	S'E	2	bc+	47	85	6	2500	St	5	CuSt	6	
Harrogate	478	*	*	*	*	*	*	*	*	1500	*	*	*	*	996·8	+1	SW	2	c	48	92	7	2500	Nb	9	ASt	10	
Spurn Head	29	993·0	+3	NW'W	5	orr	47	97	6	5700	Nb	10	-	10	996·7	+2	W'N	3	bc	46	97	7	4000	Nb	6	-	6	
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	999·0	-1	SSW	2	c	46	97	5	2500	Nb	7	ASt	9	
Cranwell	236	995·5	+5	W	4	mmo	49	92	4	450	Nb	10	-	10	998·3	+2	W'S	2	bc-	45	97	7	4000	StCu	2	Ci	5	1
Gorleston	14	995·5	+5	WSW	4	c	51	92	8	4000	StCu	10	-	10	999·8	+4	SW	3	bc	49	85	7	5700	Cu	3	ACu	5	
Valentia (Cahirciveen)P	20	993·0	0	SE	1	b	52	92	9	*	CuNb	1	-	1	991·0	-2	SE	2	cr	51	92	8	1500	St	8	-	8	
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	993·7	-1	SW	1	o	51	97	6	1500	St	10	-	10	3
Pembroke (St. Ann's H.)	150	997·7	+2	SW	3	bc|p	52	97	6	1500	CuNb	4	-	4	994·9	-2	S	3	oR	52	97	6	1500	Nb	10	-	10	
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	998·4	-1	SSW	1	or,+	48	92	6	1500	Nb	10	-	9	
Leafield	812	*	*	*	*	*	*	*	*	*	*	*	*	*	998·6	-2	SSE	2	ct	45	97	7	4000	StCu	9	-	10	
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1000·2	-1	S	3	or,r,	51	97	6	800	Nb	10	-	10	
S. Farnborough	257	*	*	*	*	*	*	*	*	*	*	*	*	*	1000·0	-1	SSE	2	or,r,	52	97	6	800	Nb	10	-	10	
London (Kew Obsy.)	18	*	*	*	*	*	53	*	*	*	*	*	*	*	1000·5	-1	S'W	3	c	51	97	6	800	St	5	ASt	10	
Croydon	344	1000·6	+4	W'S	5	bc	53	75	7	1500	StCu	2	ASt	5	1000·8	-1	SSW	4	c	52	92	6	1500	St	6	ASt	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1001·1	0	SSW	1	c	49	97	6	4000	StCu	6	ACu	8	3
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1001·0	0	SW	3	bc	48	92	7	2500	St	7	-	7	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1001·4	+2	S'W	1	c	46	97	6	4000	StCu	3	ASt	8	
Lympne	350	1001·1	+3	SW'W	5	bc+	51	92	7	1500	St	6	-	6	1002·0	0	SSW	3	o	51	97	5	450	St	10	-	10	
Scilly (St. Mary's)	163	998·2	0	SSW	4	bc	52	97	7	4000	StCu	5	-	5	995·6	-2	SW'S	5	c	52	97	7	4000	StCu	9	-	9	4
Falmouth (Pendennis)	200	1000·0	0	SSW	5	cd,	54	97	6	1500	St	8	-	8	996·8	-2	SW	5	o|r	53	97	7	2500	Nb	8	ASt	10	4
Plymouth (Mt. Batten)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	997·5	-3	SSW	4	oR	53	97	6	800	Nb	10	-	10	5
Portland Bill	32	1000·4	+2	SW	4	bc-	54	92	7	1500	StCu	3	-	3	998·0	-3	S	4	c,p	53	92	7	1500	StCu	10	-	8	3
Southampton (Calshot)	10	1001·7	+3	W'S	3	bc-	53	85	7	1500	Cu	3	-	3	1000·5	-2	SSW	4	cd,	53	85	7	1500	St	8	-	10	
Dungeness	20	1001·3	+5	WSW	6	b	52	97	8	-	-	0	-	0	1001·8	0	SW	4	cu,	53	97	7	2500	StCu	10	-	6	5
Guernsey (St. Peter Port)	173	1003·5	-1	SW	2	c|pc	53	92	7	2500	StCu	10	-	10	1000·8	-3	SSW	3	bc-	54	92	7	2500	StCu	6	-		

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28th November 1929

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-27h. to 9h. 29th. °F.	Temperature. Max. 9h.-17h. 28th. °F.	Rainfall† Night 17h.-9h. 27th-28th. mm.	Rainfall† Day 9h.-17h. 28th. mm.	Sunshine. Sunrise to Sunset, 28th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	fog	38	48	0·3	Trace	0·0
Douglas (I. o. M.)	of	od	43	50	6	0·3	0·0
Llandudno	co	ormr	45	52	0·2	8	0·0
Colwyn Bay	ocro	ororr	44	51	0·3	4	0·0
Rhyl	om,	ddq	44	52	0·5	7	0·0
Wallasey	of,or,	ouf,Rr	41	50	2	5	0·0
Southport	od,	orr	43	49	1	4	0·0
Blackpool	o	or	41	50	2	0·3	0·0
Morecambe	c	cor	42	50	2	Trace	0·0
Ilkley	omr	or	39	47	3	5	0·0
Claethorpes	dord	dr	37	48	0·1	6	0·0
Mablethorpe	om,r	orr	39	47	Trace	8	0·0
Skegness	opr	rop	37	48	0·5	13	0·0
Aberystwyth	rom	orm	46	53	1	3	0·0
Bath	rrdd	der	41	56	20	4	0·0
Cheltenham	orr	or	46	55	13	7	0·0
Leamington Spa	or	or	43	54	11	9	0·0
Lowestoft	cor	rod	40	51	2	12	0·0
Harwich & Dovercourt	roc	roc	45	51	10	2	0·0
Maldon	r	r	39	55	18	7	0·0
Ilfracombe	r	r	44	55	11	14	0·0
Bude	r	r	41	54	17	10	0·0
St. Ives	p	p	44	54	41	9	0·0
Penzance	cor	orc	50	58	27	6	0·0
Paignton	odqm	ord,pcbc	60	55	37	2	0·0
Torquay	orq,m	od,r,pcb	50	56	17	1	0·3
Jersey	rc|bc	rc	50	57	12	1	0·0
Weymouth	r|r	pcb	50	55	34	2	
Bournemouth	r	r	39	55	26	4	0·0
Ventnor	orm	orou	48	54	23	1	0·0
Portsmouth (S'thsea)	orr	orbc	45	56	26	5	0·0
Bognor Regis	r	ro	44	54	25	5	0·0
Littlehampton	or	orc|c	42	54	22	6	0·0
Worthing	orc	orc	44	55	19	5	0·0
Brighton	rer	bc	43	55	22	5	0·0
Eastbourne	ro	org	49	56	21	8	0·0
Hastings‖	or,c	ordc	48	55	17	9	0·0
Folkestone	or	r	44	55	14	10	0·0
Dover	or	oer,	47	55	12	8	0·0
Deal	r	ro	42	56	9	13	0·0
Tunbridge Wells	orr	orr	41	55	14	14	0·0
Ramsgate	r	ro	45	56	9	6	0·0
Margate	cr	cr	44	56	9	9	0·0
Southend	orr	orr	43	54	16	4	0·0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24845 Saturday, 30th November 1929.

Observations at 13h. G.M.T. 29th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.* 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	999.4	0	SE	3	c	46	85	7	1500	StCu	5	A.St	8	*
Stornoway	999.4	0	E	1	c-	46	97	6	2500	StCu	9	-	9	*
Wick	997.1	+1	S	2	c	47	97	7	1500	Nb	5	A.St	10	*
Tiree	994.5	0	SE'S	3	c do	48	97	6	2500	St	8	A.Cu	9	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	997.2	0	ESE	2	c/r	47	97	6	1500	Nb	8	A.St	10	2
Malin Head	994.3	0	S	2	bc	47	92	7	4000	StCu	1	C.C	6	*
Renfrew	996.9	-1	NE	1	od$_o$d$_o$	46	97	3	800	St	10	-	10	2
Edinburgh (Inchkeith)	996.5	0	-	0	F$_o$+	46	97	1	<150	St	10	-	10	*
Lanchars	996.2	-1	E	2	o/r	47	97	6	450	St	10	-	10	2
Baldalemuir	996.3	0	-	0	o/r	45	97	6	450	St	10	-	10	2
Tynemouth	996.6	-1	-	0	ff o	48	97	3	1500	Nb	10	-	10	*
Blacksod Point	991.8	0	SE	3	bc+	48	92	8	*	Cu	4	Ci	8	*
Donaghadee	994.4	0	-	0	ff o	46	97	3	1500	St	10	-	10	*
Birr Castle	992.7	-1	S	1	c+	50	97	7	2500	StCu	8	A.Cu	9	*
Holyhead	995.8	-1	SSE	4	c r$_o$	51	92	6	1500	Nb	9	A.St	10	2
Liverpool (Bidston)	995.5	-2	SE'S	3	c/r	49	92	6	2500	Nb	9	A.Cu	10	*
Chester (Sealand)	996.1	-1	SE'S	3	c r$_o$	50	92	5	4000	St	9	-	9	2
Hacroqate	997.4	0	S	1	ffc	48	92	3	<150	St	8	A.St	10	*
Spurn Head	997.3	0	SSW	1	c+	47	97	6	800	St	9	-	9	*
Birmingham (Edgbaston)	998.3	-1	SSW	3	orr	49	92	5	1500	Nb	10	-	10	2
Cranwell	998.2	-3	S	2	o r$_o$	47	97	4	450	St	10	-	10	2
Gorleston	999.4	-2	SW'S	3	o r$_o$ r$_o$	51	97	6	2500	Nb	10	-	10	*
Aberporth (Cahirciveen)	990.6	-1	S'E	3	bc	55	85	8	1500	Cu	7	-	7	2
Roches Point	992.3	-1	SW	2	c	52	97	7	1500	CuNb	4	CiCu	8	*
Pembroke (St. Ann's H.)	994.9	-1	SSW	3	c-	54	97	7	2500	StCu	6	CiSt	8	*
Ross-on-Wye	997.5	-1	SSW	2	o r$_o$	51	97	6	1500	Nb	10	-	10	2
Leafield	997.3	-1	S'E	2	c/r	50	97	6	220	St	9	-	9	2
Winchester (Worthy Dn.)	998.9	-1	SW	3	c/r	53	92	7	1500	Nb	7	Ci	8	2
S. Farnborough	998.5	-3	SW	3	c-	54	92	7	1500	St	8	-	8	2
London (Kew Obsy.)	998.7	-2	SSW	2	c/r	53	97	5	800	Nb	8	A.Cu	9	2
Croydon	999.7	-2	SW	3	c/r	53	92	5	450	St	9	-	9	2
Shoeburyness	999.6	-3	S'E	1	c/r	52	97	8	2500	StCu	8	ACu	9	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1000.1	-2	SE	3	c d$_o$d$_o$	50	97	5	1500	Nb	8	A.Cu	9	2
Lympne	1000.1	-3	SSW	5	c/r	53	97	6	220	St	9	-	9	2
Scilly (St. Mary's)	995.5	-1	S'W	4	c	53	97	6	4000	StCu	8	-	8	*
Falmouth (Pendennis)	997.0	+1	SSW	4	bc+	55	92	7	4000	CuNb	7	-	7	*
Plymouth (Mt. Batten)	997.5	-1	SW	3	b-	55	92	7	1500	Nb	2	Ci	2	2
Portland Bill	998.1	+2.0	SW	4	o	54	85	7	1500	St	10	-	10	*
Southampton (Oakhot)	999.6	0	SW'W	4	c	55	85	7	800	St	7	CuCu	8	2
Pengness	999.9	-3	SW	4	c+	55	97	7	2500	StCu	7	A.St	9	*
Larnaca (St. Peter Port)	1001.0	-2	S	3	c	56	85	7	2500	StCu	8	-	8	*

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	999.1	0	S'E	3	or$_o$	46	85	7	1500	Nb	10	-	10	*
Stornoway	995.5	0	-	0	mbc	38	97	4	2500	StCu	6	CiSt	7	0
Wick	997.1	0	S	3	od$_o$	47	92	8	1500	Nb	10	-	10	4
Tiree	994.3	0	SSE'S	3	c	48	97	6	4000	St	8	ASt	10	1
Nairn	995.7	*	-	0	FFo	42	92	1	800	St	10	-	10	*
Aberdeen	996.8	0	SE'E	3	c/r	47	97	6	1500	Nb	8	A.St	10	1
Malin Head	994.0	0	ENE	3	bc+	47	92	7	4000	StCu	7	-	7	2
Renfrew	996.3	0	E	1	fc-	46	97	4	2500	St	5	ASt	10	*
Edinburgh (Inchkeith)	996.1	0	NE	1	FF$_o$	45	97	1	<150	St	10	-	10	0
Lanchars	996.0	0	E	2	od$_o$d$_o$	47	97	5	220	St	10	-	10	*
Baldalemuir	996.1	+1	-	0	c	44	97	6	1500	StCu	10	-	10	*
Tynemouth	996.2	-1	SW	1	bc/f	47	97	6	1500	St	6	-	6	1
Blacksod Point	991.6	0	E	2	bc	47	92	7	*	Nb	6	-	6	2
Donaghadee	990.0	-1	S'E	1	orr	50	92	6	1500	Nb	10	-	10	0
Birr Castle	991.4	-1	SE	1	bc	47	92	6	4000	StCu	6	-	6	*
Holyhead	994.2	-1	SE'S	3	bc+	50	92	6	2500	St	7	-	7	0
Liverpool (Bidston)	994.8	0	SSE	3	c	48	92	5	1500	Nb	8	-	8	*
Chester (Sealand)	995.0	-1	SE'S	3	bc-	47	92	6	2500	St	5	A.St	7	*
Hacroqate	997.0	0	-	0	i fb	42	97	2	<150	St	2	-	2	*
Spurn Head	996.8	0	SSE	2	ff o	47	97	3	<150	St	10	-	10	1
Birmingham (Edgbaston)	997.1	-1	S	2	fbc+	47	97	3	2500	StCu	3	-	3	*
Cranwell	997.2	0	SSW	1	c	46	97	4	800	St	10	-	10	*
Gorleston	998.0	-1	S'W	2	b-	50	97	6	-	-	0	-	0	1
Aberporth (Cahirciveen)	998.1	-1	E'N	3	bc	51	92	8	1500	St	6	-	6	4
Roches Point	997.2	-1	SW	3	orr	51	97	6	800	Nb	10	-	10	5
Pembroke (St. Ann's H.)	997.5	-2	SE	3	o+	52	97	7	800	St	10	-	10	2
Ross-on-Wye	996.4	-2	S'W	2	c	49	92	5	1500	St	6	ASt	9	*
Leafield	996.9	-1	SSE	3	bc+	46	97	7	-	-	0	ASt	4	*
Winchester (Worthy Dn.)	998.7	0	SE'S	1	c r$_o$	50	97	6	1500	StCu	9	-	9	*
S. Farnborough	998.8	0	S	2	b	50	92	6	-	-	0	-	0	*
London (Kew Obsy.)	998.8	+1	S'W	1	b-	50	92	7	-	-	0	ACu	1	*
Croydon	999.7	+1	SW'S	3	bc+	51	92	6	1500	StCu	4	-	4	*
Shoeburyness	999.2	0	SW	2	b	50	97	8	-	-	0	ASt	1	0
Clacton-on-Sea	999.0	0	SSW	3	b	49	92	7	2500	St	2	-	2	2
Felixstowe	999.3	+1	S	3	b	48	97	7	-	-	0	-	0	0
Lympne	1000.1	0	SSW	3	o+	52	97	6	220	St	10	-	10	*
Scilly (St. Mary's)	992.0	-2	SSW	4	bc	50	97	8	4000	StCu	5	-	5	5
Falmouth (Pendennis)	993.5	-3	SW'S	5	bc+	52	92	7	4000	CuNb	6	-	6	4
Plymouth (Mt. Batten)	994.2	-4	SSW	5	b-	53	85	7	2500	CuNb	2	-	2	4
Portland Bill	995.8	-3	S'E	4	o/p r$_o$	53	92	7	1500	Nb	10	-	10	5
Southampton (Oakhot)	995.3	-2	S	4	bc	53	85	7	1500	StCu	7	-	7	0
Pengness	1000.2	0	WSW	3	bc-	53	97	7	2500	StCu	4	-	4	4
Larnaca (St. Peter Port)	997.8	+2	SW	3	bc	54	92	7	2500	StCu	6	-	6	4

LONDON OBSERVATIONS. Height above M.S.L. in feet.

Obs. 7h-18h., Kew & Croydon.
Obs. 9h-18h., Kensington.
Obs. 7h-21h., 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 to Sunset. hrs.	Humidity. 7h. G.M.T. %	Humidity. 9h. G.M.T. %	Sea.
		24 HOURS ENDED 9h.						YESTERDAY.			TO-DAY.		
Kew	18	od$_o$ er	cm$_o$ b	bc$_o$ c$_o$ b	55	50	42	2	3	0.4	*	*	5
Croydon	246	c$_o$ c$_o$ rr	cer$_o$ bc	or$_o$ br$_o$ bc	56	51	47	2	8	0.9	*	*	6
Greenwich (Royal Obsy.)	142	cr$_o$ pc	cbc	crc Rrc	56	49	43	Tr	6	1.2	83	91	5
City (Bunhill Row)	80				*	*	*	*		0.1	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	51	45	3	*	0.7	77	70	*
Regent's Pk. (Botanic Gdns.)	165	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	orc	cer cbc	*	54	52	*	1	2	*	*	93	*
Kensington Palace	80	or	or cbc	*	55	48	45	0.5	3	*	(At 18h.) 91	94	*
Hampstead Observatory	450	*	*	*	53	47	42	3	2	0.1	*	94	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time
1.3	29th 20h	0.3	30th 3h to 6h

Kew Observatory

Max.	Time	Min.	Time
0.3	29th 17h to 20h	0.1	30th 3½

POLE STAR RECORD at Greenwich Obsy.

Exposure from 29th W 17h 0m. to 30th 6h 3½m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.30	2.49	21
δ Ursae Minoris	13.30	2.23	18

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Rare ground frozen (but less than 2 ins. deep).
4=Rare 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.

For Nov. 30th to Dec., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.42	11.42	15.41
Greenwich	7.43	11.42	15.40
Wick	7.43	11.49	15.53
Valentia	7.45	11.49	15.53
	8.36	12.1	15.26
	8.38	12.1	15.25
	8.26	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. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening skys
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r$_o$ = slight rain.
rr = continuous rain.

SYMBOLS.

< = { less than (for cloud height). before (for precipitation).
⊕ = solar halo. ☽ = lunar halo.
With present weather is continued, wherever possible, the general character of the weather.
Δ "sandus" divides actual existing weather from preceding conditions, thus:—heff = 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 }
4=mod. swell } Moderate
5=heavy swell } 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.	5½ „
7. Good.	11 „
8. Very good.	22 „
9. Excellent visibility, beyond 22 m.	

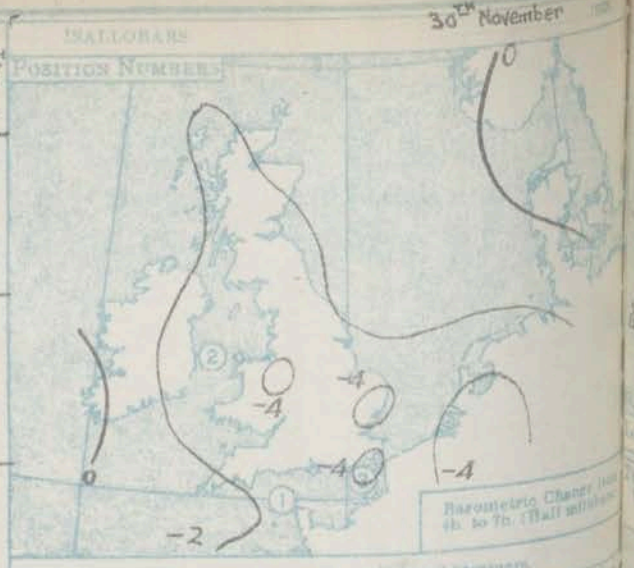
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 29TH	WEATHER. 18h.-18h. 29TH	WEATHER. 18h. 29TH to 1h. 30TH	WEATHER. 1h.-7h. 30TH	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 29TH Hours.
Lerwick	cir.	coir.	oir.	oir.c	47	44	•	1	<8.00	0.4	<2100	0.0
Stornoway	od.d.c	c	c	c	46	37	•	0.2	<8.00	-	-	0.0
Wick	cd.d.c	cido	id.ir	oir	48	46	•	1	<8.00	18	<2100	•
Tiree	oidz.	cm.	cr	or r.	49	46	42	0.4	9.00	2	24.00	0.0
Nairn	c.e.o	FO	Feo	off	43	38	•	0.3	<8.00	0.2	<2100	0.0
Aberdeen	od.cid.m.	cid.m.	coid.orr	oid.o	48	47	46	Tr	<8.00	5	<2100	0.0
Malin Head	cbce	bce	bccbczz.	bccd.m.m.	48	47	•	-	-	0.3	5.30	3.0
Renfrew	or.d.ff	cd.ff	cm cm.	c.cr.r.	47	42	40	0.4	<8.00	1	4.30	0.0
Edinburgh (Inchkeith)	of.r.r.	oF.fe	off.bem.	oiF.mmr.	46	43	40	0.3	<8.00	1	4.30	0.0
Leuchars	od.d.ff.m.	d.d.m.d.	od.d.	od.d.om.	47	46	45	1	<8.00	0.2	<2100	0.0
Eskdalemuir	od.d.ff.m.	od.d.ff	cbcc	coir.	45	42	39	1	<8.00	0.3	3.30	0.0
Tynemouth	oof	off	beboff	off	48	43	38	-	-	Tr 3	6.30	•
Blacksod Point	bc	be	pbe	c	49	41	•	-	•	0.4	•	•
Donaghadee	ff	forr	ir. ff	ff ir.	50	48	•	6	13.30	1	<2100	•
Birr Castle	cr.bce	tr.bc	bc	bcr. o	52	41	32	.1	<8.00	0.3	3.30	2.3
Holyhead	opr.bcc	r.e.bc	beeir.	ir. c	52	47	45	0.3	9.00	3	22.00	0.3
Liverpool (Bidston)	e.n.r.m.	c.bem.	c.empm	cr. om	49	43	43	0.4	11.00	1	22.00	0.0
Chester (Sealand)	bec.i.m.	f.m.bc	cr.r.m.	ir. o.m.	50	44	38	0.2	11.00	1	22.00	0.0
Harrogate	c.ff	c.bif	bo FF	oFFr.dr	48	41	35	-	-	3	3.30	0.0
Spurn Head	bcc	oroff	oroff	off or	47	43	•	2	14.30	2	<2100	0.0
Birmingham (Edgbaston)	orr	orcm	mbcor	o PRe	48	46	44	6	<8.00	5	<2100	0.0
Cranwell	cm.r.r	or.m.r.d.	c.bmoff	ofr	49	40	35	6	11.00	2	22.00	0.0
Gorleston	beq or.	or.c.b.	bmor.c.	of. cq	52	47	45	1	11.00	4	24.00	0.0
Valentia (Cahirciveen)	c.p.b.c.	bc	ir.c.bc	cir.	(55)	44	40	2	<8.00	0.4	<2100	2.5
Roches Point	cir.c	corr	orrc	cir.c	54	47	•	3	2.00	7	<2100	•
Pembroke (St. Ann's H.)	c.r.r.m.	c.m.	c.pr	cr.r.bc	54	49	•	12	<8.00	7	<2100	0.3
Ross-on-Wye	r.r.oir	r.b.c.bcc	cof.oc	c.o.r.c.	51	47	41	7	<8.00	5	<2100	0.1
Leafield	ciRif	c.p.o.bc	bc.e.p	c.p	51	45	42	13	<8.00	6	<2100	1.3
Winchester (Worthy Dn.)	c.r.r.m.e.r.	c.b.e.m.	circ	oiriRc	56	49	45	3	<8.00	8	<2100	0.7
S. Farnborough	or.r.c	c.p.o.bc	bc.p.c.Pc	c.rRc	55	49	42	2	<8.00	4	<2100	1.5
London (Kew Obsy.)	od.c.r	c.m.o.b	ber.m.em.	c.c.r.m.b.c.	55	50	42	2	<8.00	3	<2100	0.4
Croydon	cr.o.r.r.m.	c.p.r.bc	or.r.m.bc	bec.o.r.c.	56	51	47	2	<8.00	8	4.30	0.9
Sheeburyness	c.r.c.e	c.r.b.e.b	b.c.i.r	c.r.c	55	45	42	2	<8.00	2	<2100	0.3
Clacton-on-Sea	bec.r.d	c.b.e.b	b.b.c	bc.q.bc	50	48	42	10	<8.00	5	1.30	1.0
Felixstowe	co.r.e.d.	c.d.c.m.	b.b.c.c.r.r.	c.i.t.bc	54	47	43	1	9.00	4	22.00	0.5
Lympne	or.r.fod.	od.com.	or rrm	oRmc	53	51	~~48~~ 47	4	<8.00	5	<2100	0.0
Scilly (St. Mary's)	c.m.	c.o.r.l.t	c.o.r.bc	bcp	54	49	•	7	13.30	3	22.00	2.7
Falmouth (Pendennis)	c.R.q.b.c.	b.c.c.r.q	bc.p.q	c.p.o.bc	55	49	•	5	<8.00	5	<2100	3.1
Plymouth (Mt. Batten)	o.Rm.p.r.b.	b.o.r.Rm.b.	b.o.R.c.	c.r.Rbc	55	48	47	12	<8.00	10	22.00	1.9
Portland Bill	o.P.o	o.p.o.o	bc.p.c	c.r.o	55	50	•	5	<8.00	3	22.00	•
Southampton (Calshot)	c.d.i.c.m.c.	c.j.p.b.c.m.	b.c.c.r.i.r.	c.r.m.	55	51	49	1	<8.00	5	<2100	0.8
Dungeness	c.d.c.r.r.b.c.	c.b.c.	b.c.c.r.o.R.r.	o.r.c.b.c.	55	52	•	4	<8.00	7	<2100	•
Guernsey	c	c.o.p.r.c.	c.p.r.b.c.	o.p.r.c.	56	52	50	2	15.30	3	22.00	1.1

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



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.
2	29TH 10h	Scotia	ESE	5	F-	53	53
3	30TH 2h	Dieppe	SW	5	FR	55	53

GENERAL INFERENCE.

A depression over Ireland is drifting slowly eastward and filling up. Weather will be quiet and cloudy generally with occasional rain locally and widespread fog at night and in the early morning.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 30th November, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate southerly winds becoming light variable; cloudy, occasional local rain; mild; fog this evening, tonight and early tomorrow morning.	Quiet, cloudy and foggy with occasional rain.
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, R. N.W. Scotland) 14. Mid-Scotland	Light variable winds, cloudy, occasional rain; mild; fog this evening, tonight and early tomorrow morning.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate southeasterly winds; cloudy, occasional rain; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds; cloudy, occasional local rain; mild; fog this evening, tonight and early tomorrow morning.	

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

Fc 148/893 m.4/ 3.8008. 14/00. 11/29.

† For code see page 4

SYNOPTIC CHART FOR 7h SATURDAY, 30TH NOVEMBER, 1929.

Scale - 1:10,000,000

Nautical Miles 100 0 100 200

Statute Miles 100 0 100 200

HIGH

1006 (10) 32 O'cast -1

Barometric

1004 (0) 34 O'cast -1

1002

Changes

(0) 37 Cloudy +0

1000 (21) 39 O'cast -1

Slight

998

(0) 37 Cloudy -1

(2) 45 Cloudy

Barometer

(0) 42 Cloudy

(15) 47 Fair

(15) 47 O'cast

994

992

(19) 45 Rain

49 (5) Drizzle

47 (5) Rain

990 (0) 43 Cloudy

988

Barometer

Falling

(10) 47 Rain

(5) 48 Cloudy

(2) 43 O'cast

LOW

(15) 50 Rain

(5) 48 Cloudy

(18) 51 Cloudy

988 45 (2) Cloudy

Steady

LOW

(10) 50 Fine

(10) 51 Fine

(15) 51 Rain

(10) 43 Fine

(10) 53 Fine

SLOWLY

(15) 50 Cloudy

(5) 46 Fine

1008

(5) 52 Rain

(27) 52 Showers

(10) 52 Cloudy

1010

41 (24) Thick Fog

41 (2) Thick Fog

(10) 52 Cloudy

Generally HIGH

(5) 54 O'cast

59 (21) Cloudy

SAMARIA (15) 53 (5) 54 Fine

1004

39 (5) Cloudy

Barometric

(5) 37 Fine

HIGH

Changes

39 (15) Fine

(0) 27 Cloudy

41 (3) Cloudy

Slight

43 (12) Cloudy

LOW

998

1000

1002

1004

1006

(5) 37 Fine

(1) 45 JP

42 47 38 47 47 45 45 49 45 47 43 48 48 47 50 51 51 50 51 51 50 51 51 50 51 50 49 51 50 51 50 51 50

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 1. BRITISH SECTION. Saturday, 30th November 1929. No. 334.

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. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	34	999·4	0	S'E	3	or$_o$	45	85	7	1500	Nb	10	-	10
Stornoway	30	996·5	0	N	1	c	"	"	6	"	"	"	"	10
Wick	82	996·5	0	SE	3	or	47	97	8	1500	Nb	10	-	10
Tiree	22	"	"	"	"	"	"	"	"	"	"	"	"	"
Nairn	52	"	"	"	"	"	"	"	"	"	"	"	"	"
Aberdeen	87	"	"	"	"	"	"	"	"	"	"	"	"	"
Malin Head	81	997·6	-1	NE	1	bc	48	92	6	4000	StCu	4	-	4
Renfrew	26	"	"	"	"	"	"	"	"	"	"	"	"	"
Edinburgh (Inchkeith)	199	995·7	0	NE	1	(fbc)	43	97	5	450	St	4	-	4
Leuchars	38	"	"	"	"	"	"	"	"	"	"	"	"	"
Eskdalemuir	784	"	"	"	"	"	"	"	"	"	"	"	"	"
Tynemouth	87	995·8	-1	SSW	1	ffo	46	97	3	1500	St	10	-	10
Blacksod Point ...	18	999·4	0	-	0	bc	46	97	7	"	Cu	6	-	6
Donaghadee	40	"	"	"	"	"	"	"	"	"	"	"	"	"
Birr Castle	178	"	"	"	"	"	"	"	"	"	"	"	"	"
Holyhead	38	992·6	-2	ESE	1	c r$_o$	49	97	6	2500	Nb	8	ASt	10
Liverpool (Bidston) ...	189	"	"	"	"	"	"	"	"	"	"	"	"	"
Chester (Sealand) ...	14	"	"	"	"	"	"	"	"	"	"	"	"	"
Harrogate	476	"	"	"	"	"	"	"	"	"	"	"	"	"
Spurn Head	20	995·3	-1	SE'S	2	ffo	45	97	3	<150	St	10	-	10
Birmingham (Edgbaston)	535	"	"	"	"	"	"	"	"	"	"	"	"	"
Cranwell	298	996·2	-3	SE'E	2	o|pr$_o$	43	97	2	<150	St	10	-	10
Gorleston	14	997·1	-2	SSW	4	or r$_o$	50	97	6	1500	Nb	10	-	10
Valentia Cahirciveen	30	988·5	-1	ESE	2	c+	48	86	8	"	"	0	ACu	9
Roches Point	22	"	"	"	"	"	"	"	"	"	"	"	"	"
Pembroke (St. Ann's H.)	180	989·5	-3	S	3	cd$_o$	52	92	7	1500	StCu	8	ASt	10
Ross-on-Wye	293	"	"	"	"	"	"	"	"	"	"	"	"	"
Leafield	813	"	"	"	"	"	"	"	"	"	"	"	"	"
Winchester (Worthy Dn.)	272	"	"	"	"	"	"	"	"	"	"	"	"	"
S. Farnborough ...	357	"	"	"	"	"	"	"	"	"	"	"	"	"
London (Kew Obsy.) ...	12	"	"	"	"	"	53	"	"	"	"	"	"	"
Croydon	344	996·5	-3	SSW	3	bc	53	92	7	1500	St	6	-	6
Shoeburyness	11	"	"	"	"	"	"	"	"	"	"	"	"	"
Clacton-on-Sea ...	54	"	"	"	"	"	"	"	"	"	"	"	"	"
Felixstowe	15	"	"	"	"	"	"	"	"	"	"	"	"	"
Lympne	350	997·4	-3	S	4	orr	52	97	4	<150	Nb	10	-	10
Scilly (St. Mary's) ...	163	999·9	-1	SW	3	bc	52	92	7	4000	StCu	4	-	4
Falmouth (Pendennis)	200	997·4	-3	SW'S	4	c|pr	50	92	7	4000	CuSt	6	ASt	8
Plymouth (Mt. Batten)	82	"	"	"	"	"	"	"	"	"	"	"	"	"
Portland Bill	32	992·3	-4	S	4	c+	53	92	8	1500	StCu	8	-	8
Southampton (Calshot)	10	995·6	-3	S	5	cr$_o$+	53	85	7	800	Nb	10	-	10
Dungeness	20	996·6	-3	S	4	or-	53	97	7	1500	Nb	10	-	10
Guernsey (St. Peter Port)	172	995·8	-3	S	3	bc-	53	92	7	4000	StCu	4	-	4

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. 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	998·3	-1	SSE	1	c|pr	45	85	8	1500	CuNb	3	A Cu	9	·0
Stornoway	997·8	-2	-	0	c	42	97	7	2500	St	9	-	9	0·4
Wick	997·9	-4	SE	4	or	47	92	8	1500	Nb	10	-	10	1·0
Tiree	999·5	-2	ESE	1	o	47	92	7	2500	St	10	-	10	·0
Nairn	999·1	"	-	0	ffo	38	97	2	800	St	10	-	10	·1
Aberdeen	999·5	-1	SE'E	4	o	47	92	6	1500	Nb	10	-	10	·1
Malin Head	999·8	-1	E	2	cd$_o$	49	92	5	800	St	9	ASt	10	1·0
Renfrew	999·7	-3	NE	3	cr r$_o$	45	97	6	2500	Nb	6	ASt	10	·0
Edinburgh (Inchkeith)	999·4	-3	ENE	1	mist	45	97	4	450	St	10	-	10	·0
Leuchars	999·2	-3	E	2	o	47	97	6	1500	St	10	-	10	·0
Eskdalemuir	999·5	-2	ENE	4	or$_o$	45	85	6	800	Nb	10	-	10	·2
Tynemouth	999·1	-3	E	2	or$_o$	47	97	7	1500	Nb	10	-	10	·2
Blacksod Point ...	999·6	0	-	0	c	43	92	7	"	StCu	8	-	8	2
Donaghadee	998·8	-2	SSE	3	or$_o$	49	92	5	1500	Nb	10	-	10	2·0
Birr Castle	998·9	-2	S	1	o	43	97	7	2500	St	10	-	10	·0
Holyhead	998·2	-3	SE'E	2	c	48	97	6	2500	St	8	Cu	8	·0
Liverpool (Bidston) ...	998·8	-2	SE	3	fo-	48	97	4	1500	St	10	-	10	·0
Chester (Sealand) ...	998·4	-4	SE'E	1	o	47	97	5	800	St	10	-	10	·0
Harrogate	999·3	-2	SE	1	or+	44	97	1	1150	St	10	-	10	·1
Spurn Head	999·5	-2	S'E	3	or r$_o$	47	97	6	1500	Nb	10	-	10	·1
Birmingham (Edgbaston)	999·3	-3	SSE	2	c	48	97	8	1500	Nb	9	-	9	·0
Cranwell	999·3	-3	SE'S	3	or$_o$	47	97	3	450	St	10	-	10	·0
Gorleston	999·8	-4	SSW	4	c	51	97	6	1500	Nb	10	-	10	·0
Valentia Cahirciveen	988·5	0	SE'S	1	c	45	97	8	1500	StCu	8	-	8	1·0
Roches Point	988·3	-2	SW	2	c	47	97	7	2500	CuNb	5	CuCu	8	2·0
Pembroke (St. Ann's H.)	987·3	-3	SSW	3	bc-	50	97	8	1500	CuNb	3	CuSt	5	·0
Ross-on-Wye	990·0	-3	S	1	c	48	97	7	2500	Nb	9	-	9	·0
Leafield	990·0	-3	SE'S	3	c|pr$_o$	47	97	8	450	St	6	ASt	8	·0
Winchester (Worthy Dn.)	992·8	-2	SSW	2	c|r	49	92	7	800	St	10	-	10	·0
S. Farnborough ...	991·9	-3	S	3	c	51	92	6	800	St	9	-	9	·0
London (Kew Obsy.) ...	992·2	-3	S'W	3	bc	51	92	6	1500	Nb	7	-	7	·0
Croydon	993·6	-2	SSW	3	c|r	51	92	6	800	St	9	-	8	·0
Shoeburyness	993·6	-3	S'W	2	c|r	51	97	7	800	Nb	9	-	9	·0
Clacton-on-Sea ...	993·9	-4	S	4	bc	50	97	7	4000	Cu	4	-	4	3
Felixstowe	993·8	-5	S'E	4	bc	50	97	7	1500	StCu	3	ACu	4	3
Lympne	994·2	-4	S	4	c	51	97	6	1500	StCu	9	-	9	·0
Scilly (St. Mary's) ...	988·5	-1	SW'W	3	bc	49	85	8	4000	StCu	5	-	5	4
Falmouth (Pendennis)	989·9	-2	SW	4	bc|r	50	85	7	4000	CuNb	7	-	7	3
Plymouth (Mt. Batten)	990·3	-3	SSW	4	cr	50	85	8	1500	Nb	9	-	9	4
Portland Bill	991·4	-2	SSW	4	cr$_o$	51	85	8	1500	StCu	7	ASt	9	3
Southampton (Calshot)	991·9	-3	S'W	4	c|r	53	85	6	800	Nb	9	-	8	4
Dungeness	993·7	-3	SW	3	c	54	92	8	2500	StCu	6	CuCu	6	4
Guernsey (St. Peter Port)	993·4	-2	SW	3	bc-	53	85	7	4000	StCu	4	-	4	·0

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29th November 1929

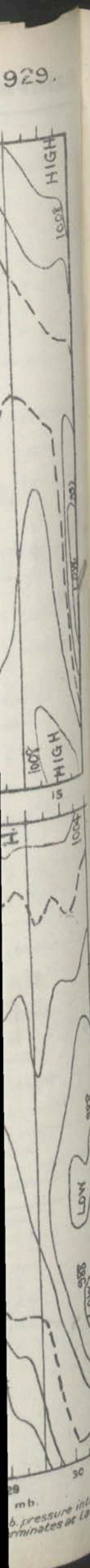
STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.-29th. to 9h. 30th. °F.	Temperature. Max. 9h.-17h. 29th. °F.	Rainfall.† Night 17h.-9h. 29th.-30th. mm.	Rainfall.† Day 9h.-17h. 29th. mm.	Sunshine. Sunrise to Sunset. 29th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	o	o	45	47	1	-	0.0
Douglas (I. of M.) ...	c	c or r	45	50	3	3	0.0
Llandudno ...	c	r c	46	53	3	1	0.5
Colwyn Bay ...	c p c p	c b c p c	47	54	4	1	0.4
Rhyl	o	r c	44	52	4	0.3	0.0
Wallasey	f or c	c o	45	50	6	1	0.0
Southport	o c o	o r c o	44	49	5	1	0.0
Blackpool	o c	o o d	44	49	5	0.3	0.1
Morecambe ...	c b c b	c b c	46	54	7	-	0.8
Ilkley	c	c o m o	44	49	13	-	0.0
Clethorpes	c o	o d	44	48	14	1	0.0
Mablethorpe. ...	r m$_o$	o r r	43	49	8	3	0.0
Skegness	o c o	o p r	44	49	9	3	0.0
Aberystwyth ...	o r c	r c m	47	53	4	8	0.9
Bath	r r c	c b c	47	56	8	4	1.4
Cheltenham ...	o r o	b c c	47	52	10	5	0.0
Leamington Spa ...	o r	c	44	51	8	2	0.0
Lowestoft	c r o c	b c c m	48	51	0.2	1	0.0
Harwich & Dovercourt	r o c	r o c b c	40	52	9	2	0.0
Maldon	o i r c	b c c	46	54	1	1	0.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Ilfracombe	r r	o r	51	56	5	4	0.0
Bude	o r b c	b c o r	49	58	5	1	3.6
St. Ives	c	p r	52	53	3	4	0.0
Penzance	b	b c r	52	56	1	4	3.3
Paignton	p r c p r	o r r m	53	57	5	8	2.0
Torquay	c b c p r c	o r	52	57	3	5	3.0
Jersey	r b c	c r q	50	56	11	1	1.1
Weymouth	p c b c	c e p	51	55	4	1	0.5
Bournemouth ...	o	o	50	54	4	-	0.1
Ventnor	o r m c	b c o c w	51	55	3	1	2.1
Portsmouth (S'thsea)	o r c	b c c	52	56	1	1	1.3
Bognor Regis ...	r r	c b c c	51	54	2	4	1.5
Littlehampton ...	c r b c	b c c	51	55	2	4	2.0
Worthing	r o c	c b c c	52	55	5	2	1.4
Brighton	r c b c	b c	52	54	2	1	1.0
Eastbourne	f o r r	o c	51	55	3	2	0.5
Hastings	o r r c	o p c o e	51	54	2	2	0.2
Folkestone	o r r m$_o$	o i r c o	50	55	1	3	0.3
Dover	o r c	c i r	51	54	1	2	0.3
Deal	o r r	r o c	49	55	2	3	0.6
Tunbridge Wells ...	o r o	o p b c	50	55	1	1	0.2
Ramsgate	d o p c	c p b c	50	55	1	0.3	0.2
Margate	c r b c	b e p	49	56	3	1	0.7
Southend	o r r	o r b e b	48	52	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., from an auxiliary station. † For code see page 1. ‡ See footnote page —

§ At stations marked thus the maximum temperature is for the period 21h.-17h. the minimum for the period 21h. 29th. to 17h. 30th.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, November 1929.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
15th.	Roches Pt.	18h. Temp. 53°F. Hum. 85%
"	Lympne	" Vis. 7.
"	Guernsey	" Wthr. C. Stcu 10 - 10
"	Eskdalemuir	7h Bar. 1028.7
"	Lympne	Bar. tend. +1
"	St. Ives	Mx 56°F
2nd	Edinburgh	13h Wthr. O. Vis 6
"	Birmingham	" Ground 2
"	Leafield	" " 0
"	Lerwick	18h Bar. 1021.3 m.
"	Renfrew	" Wthr. od. do
"	Blacksod Pt.	" Temp 51
"	Holyhead	" Wind S
"	Harrogate	" Bar. 1028.0
"	Falmouth	" Cld. ht 4000'
"	Edinburgh	1h Wthr. Oc
"	Croydon	7h Total Cld. 5
"	Clacton	" Cld ht. 4000'
3rd	Chester	13h Wthr. C. St 5-5
"	Ross-on-Wye	" Cld. ht 2500'
"	Westminster	Mx 50 Min 38. G.Min 33 Rain
"	"	Hum. 15h 65% 21h 79%
"	S. Kensington	At Pollution Mx 2.3 10h 2nd
"	"	" " Min 0.3 3h 3rd
"	"	" " Mx 1.6
"	Kew	
"	Greenwich	Pole Star 2nd 17.15 - 3rd 6.15.
"	"	Polaris 13.h.0 : 3h 21 26
"	"	δ Ursae Min. 13.h.0 : 2h 45 21
"	Blacksod	7h Wind WNW
"	Birr	" Bar. tend +3
"	Valentia	" Wind WNW
"	Pembroke	" Wthr. bc+
"	Dungeness	" Hum 97%
4th	Birr	18h Bar. 1031.8. Wind SW/l. Wthr b
"	"	" Temp 44°F. Hum 85% Vis 7.
"	"	" Stcu 2 - 2
"	Spurn	1h. Hum. 97% 800 Stcu 6 - 6 bc+
"	"	
"	Birr	7h Bar. tend. -3
5th	Gorleston	13h Temp. 48°F
"	Croydon	" Bar. 1031.0
"	Scilly	" Hum 75%
"	Gorleston	1h Bar. tend. -3
"	"	Clouds - - 0 Ast 7
"	Littlehampton	Min 31°F
6th	Birr	13h Wthr. C
"	Donaghadee	18h " C Total cld. 8
"	Portland	" Temp 55°F
"	Ilkley	C: Cgor. 45: 51: - 0.6 0.0
"	Barh	Min 35°F
7th	Holyhead	13h Ground 1
"	Croydon	18h Bar. tend. +5
"	Valentia	13h Hum. 66%
"	Birr	7h Bar 1006.5
"	Holyhead	" Wind W S/3
"	Croydon	" Bar. tend. +3
"	Calshot	" Cld. ht 7200'
8th	Donaghadee	18h Bar. 997.5.
"	Clacton	" Wind S
"	Hampstead	Sun 0.1
"	Spurn	1h Temp. 49°F
"	Guernsey	" " 56°F
"	Birr	7h Bar. 1004.5. Bar. tend. +5
"	Scilly	" " 1006.0
9th	Wick	13h Cu
"	Birr	" Bar. tend. +3. clouds 4000 Stcu 5-5
"	Regents Pk	Sun 0.4
"	Kew	1h Temp 39°F
"	Lympne	" Wind force 3
"	Tiree	7h Bar. 998.3. Bar. tend. -1
"	Birmingham	" Temp 39°F.
"	Valentia	" High Cld. Ast Total 5
"	Roches Pt.	" " " Cu Cu " 6
10th	Pembroke	7h High Cloud Acu. Total 4
"	S. Farnboro	" Hum. 97%
"	Lympne	" Bar. 1016.4
"	Cleethorpes	Nt. rain 6 mm.
10th	Edinburgh	8h Bar. 1001.7 Wthr. Or
"	Tynemouth	" Wthr. bc/pr.
"	Portland	" Temp 56°F.
"	Westminster	56: 42: 41 (Rain 1) 7.1 65% 96%
"	City	Sun 5.4
"	Camden Sq.	b: b: 52: 48 Rain 1 92%
"	Hampstead	Sun 7.0
"	S. Kensington	At. Pollution Mx 1.0 7h 2h min 0.3 24h 7th - 2h 10th
"	"	
"	Greenwich	Pole Star 9th 17.15 - 3rd 6.15
"	"	Polaris 13h.0 : 7h 40. 52%
"	"	δ Ursae Min. 13h.0 : 5.33. 43%
"	Cranwell	7h Wthr Cr. C
11th	Spurn	18h Hum. 85%
"	Greenwich	crd.c: cbbdb: bic: 50:39:30 2: Tr. 1.5 57% 78% : 6.
"	"	
"	Regents Pk	Sun 2.4
"	Greenwich	Pole Star. 10th 17.15: - 11th 6.15.
"	"	Polaris 13h.0: 12.28: 96%
"	"	δ Ursae Min 13h.0. 12.18. 95%
"	Tynemouth	1h Hum. 86%
"	Falmouth	" " 75%
"	Leuchars	7h Wind SW
12th	"	13h " force 6
"	Birr	" low cld. St. 5
"	Birmingham	" Wthr orr. Nb 10 - 10
"	Pembroke	" St 10 - 10
"	Ross-on-Wye	" Wind force 7.
"	Lympne	" Ground 1
"	Renfrew	18h Wind W
"	Roches Pt.	" Temp 54°F
"	Pembroke	" " 56°F
"	Leafield	" Wind SSW.
"	Greenwich	G. Min. 35°F
"	Dungeness	1h Wind SSW
"	"	7h Bar. tend. +12
"	Aberystwyth	Sun. 0.0
"	Ramsgate	" 1.4
13th	Renfrew	13h Bar. tend. 0
"	Leuchars	" Hum 75% Vis 8.
"	Leafield	" Wthr. b/pr.
"	Portland	" Temp 49°F
"	Lerwick	18h Wind force 2.
"	Kew	" Bar. 999.0
"	Regents Pk.	Sun 4.7.
"	Spurn	1h Hum. 97%
"	Calshot	" Wthr. b. Total cld 2.
"	Donaghadee	7h Bar. 994.9
"	Rhyl	Mx 54°F.
"	Littlehampton	" 49°F.
14th	Holyhead	13h Clds. 4000: Cu 6 - 6
"	Gorleston	" Bar. 996.6 Wind force 1
"	Pembroke	" " 997.7
"	Leafield	" Wind force 3
"	Scilly	" Bar. 1007.2
"	Donaghadee	18h Hum. 85%
"	Portland	" Temp 43°F
"	Falmouth	1h Cld. ht 4000'
"	Birmingham	7h Hum 92%
"	St Ives	Wthr. afternoon bc+bc.
15th	Tiree	13h Cld. ht 2500'
"	Birr	" Low Cld. Cu
"	Renfrew	18h Bar. 1002.6
"	Greenwich	Pole Star. 14th 17.15 - 15th 6.15.
"	"	Polaris 13h.0 9h.29. 73%
"	"	δ Ursae Min. 13h.0 4h.22. 34%
"	Portland	1h Wind NW/N. Temp 45°F
"	Calshot	" Bar. 1005.0
"	Tiree	7h Vis 9
"	Hastings	Mx 43°F
16th	—	Report No. 24831.16m 24837. 18m 24833
"	Malin Hd.	13h Temp. 39°F
"	Leuchars	" Wthr. b Total cld. 2. Ground 2.
"	Croydon	" Hum. 97%
"	Winchester	18h Wthr. Or.
"	Holyhead	1h Wind force 8.
"	Portland	" Hum. 85%
"	Liverpool	7h Wthr. mmo
"	Harrogate	" Bar. 992.2
"	Paignton	Sun. 2.3
17th	Ross-on-Wye	13h Bar. 991.3
"	Edinburgh	18h Wthr. bc Total cld. 7.
"	S. Farnboro	" Wind N.
"	Croydon	" " N.
"	Portland	" " NW N
"	City	Sun 0.0
"	Westminster	43: 37: 23: (Rain 33) 0.0 96% 92%
"	Camden Sq.	Rain 21 : 1
"	Hampstead	Sun 0.0
"	S. Kensington	At Pollution Mx 0.6 7h 16th
"	"	" Min 0.3 24h 16th
"	Kew	" Mx 0.3 7h 17th
"	Greenwich	Pole Star 16th 17.00 - 17th 6.30
"	"	Polaris 13.30 0.48 6%
"	"	δ Ursae Min 13.30 0.45 6%
"	Ross-on-Wye	7h Hum 92%
"	Wick	" cloud ht 2600'
"	Rhyl	Wthr: Cz.: bcm. Sun 0.0
"	Ventnor	Sun 1.1
18th	Portland	13h Hum. 75% Vis 6.
"	Greenwich	Hum. 15h 81%
"	"	Pole Star. 17th 17.00 - 18th 0630
"	"	Polaris 13.30 : 6.18 : 47%
"	"	δ Ursae Min 13.30 : 5.10 : 38%
"	S. Farnboro	7h Bar. 1018.2
"	Portland	" Wthr ff b.
19th	Westminster	51: 42: 31 (Rain 5) 92% 91%
"	Donaghadee	18h Cld. ht 2500'
"	Falmouth	1h Wind force 2.
"	Portland	" Temp 53°F
"	Liverpool	7h Wind force 4.
"	Croydon	" Temp 42°F.
"	Rhyl	Wthr. bcm.: bm.
"	St Ives	Rain day 5.
20th	Edinburgh	13h Hum 86%
"	Lympne	" Wind force 5.
"	Birmingham	18h Cld. ht 800'
"	Holyhead	1h Bar. 991.0. Wind S'W
"	Scilly	" Wind force 5.
"	Edinburgh	7h Low Cld. Stcu.
"	Birr	" Wthr C. Clds - - 0 Cu 10
"	Kew	" Bar. 1004.5.
"	Morecambe	Wthr. C: rrcrr
"	Paignton	Min 45°F.
"	Torquay	" 44°F.
21st	Blacksod	13h Temp 51°F.
"	Roches Pt.	18h Low Cld. Cu Nb.
"	Scilly	" Bar. 999.9.
"	Westminster	Mx 65°F.
"	Hampstead	Sun 2.8.
"	Malin Hd.	1h Bar. tend 0. Low cld. Stcu.
"	Edinburgh	" Temp 47°F.
"	Birr	7h Wthr. C
"	Leafield	" " b Clouds Stcu 4: Cu St 2
"	Portsmouth	Nt. rain 1
22nd	Birr	13h Bar. 999.0 Cld ht 4000
"	Lerwick	" Temp. 49°F.
"	Westminster	Mx 58: Min 51
"	Falmouth	1h Clds. Stcu 8 - 8. Wthr. C-
"	Wick	7h Wthr. fo- Vis. 4.
23rd	Leuchars	18h Bar. 997.4 cld. ht. 800'.
"	Blacksod	18h Temp 51°F.
"	Westminster	Mx 53
"	Greenwich	Wthr. afternoon crRdd. Vis 7h 6

; The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, November 1925.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
23rd	Greenwich	Pole Star. 22nd 17.00 - 23rd 06.30.
"	"	Polaris 13.30: 5.18: 39%
"	"	♭ Ursae Min 13.30: 3.62: 29%
"	Pembroke	1h Wind SSW
"	Birr	7h " force 3.
"	Cranwell	" " " 4.
"	Tiree	" Total Cloud 4.
24th	Leafield	13h Wind force 6.
"	Portland	" Hum. 75%
"	Westminster	56: 46: 40 (Rain) 85% 20%
"	Camden Sq.	00: 00 b: 53: 46: 4: 4 Rain 92%
"	Greenwich	Pole Star. 23rd 17.00 - 24th 06.30
"	"	Polaris 13.30: 8.25: 62%
"	"	♭ Ursae Min 13.30: 7.02: 52%
"	Chester	7h Bar. 29.51
25th	Edinburgh	" " 29.84
26th	Birmingham	13h Wthr. C/pr.
"	Cranwell	" " C/r
"	Plymouth	" Wind force 5.
"	Edinburgh	1h Wthr. bc St. 3 - 3
"	Cranwell	" Wind SSW: 7h Wthr bc: Sea 3-3
"	Tynemouth	" Bar. red. +15. Wind SSW
"	Birr	7h Wthr C
"	Gorleston	" Bar. 1000.5.
"	Paignton	Min 63°F
"	Torquay	" 63°F
27th	Edinburgh	18h Vis 8.
"	Greenwich	Cro: Cr cb: c pb sm 51: 39: 29 Rain 3.7c
"	"	0.8 78% 84% Vis 4.
"	"	Pole Star. 26th 17.00 - 27th 6.30
"	"	Polaris 13.30: 12.28: 92%
"	"	♭ Ursae Min 13.30: 11.52: 88%
"	Malin	1h Wind SSE.
"	Jersey	Wthr. bc nc: bc nc:
28th	Calshot	13h Bar. 1015.2: 18h Wthr. Or ro Bar. 1015.0
"	Valentia	18h St 7 - 7 Wthr. bc: 7h
"	Tiree	" Bar. 1001.5.
"	Leuchars	7h Hum 92%
29th	Birmingham	13h " 97%
"	Shoeburyness	15h " 85%
"	Kew	Air Pollution Mx 01 12h 28th - 4h 29th.
"	Edinburgh	1h Wthr. or ro: 7h or ro
"	Spurn	" Cloud ht 1500'
"	Cranwell	" Wthr mmo.
"	Berwick-on-Tweed	Wthr: 0: r 0.0: Nt. rain 0.3

Report for	STATION.	CORRECTION.
30th	Portland	13h Bar. 29.82
"	Tiree	18h Wind SES.
"	Ross-on-Wye	18h Bar. 29.62
"	Edinburgh	1h Wthr. bc: 7h or
"	Malin	7h Bar. 29.08.
"	Birmingham	" Vis 6.
"	Pembroke	1h " 7

Summaries for Past 24 hours.

	Station	Correction.		Station.	Correction.
1st	Stornoway	Day rain 01	10th	Renfrew	Wthr 13-18h bcc P
"	Renfrew	Wthr 7-13h bc ts	"	S. Farnboro	" 18-1h b, c
"	Holyhead	" bbcb	"	Dungeness	Mi 48
"	Roches	Mi 52	11th	Malin	Sun 1.6
"	Leafield	Wthr 18-1h b	"	Liverpool	" 4.5
2nd	Liverpool	Sun 6.5	12th	Aberdeen	Mx 52
"	Valentia	Wthr 1-7h or, rid.	"	Pembroke	" 56
"	Ross-on-Wye	" 13-18h bmbz	"	"	Day Rain 10
3rd	Eskdalemuir	Day rain 10	"	W'chester	" 13
"	Birr	Mi 37	"	O'ness	Nt Rain 12
"	Cranwell	Sun 0.4	13th	Tiree	Mx 44
"	Felixstowe	Mi 44 Mx 43	"	Liverpool	Sun 1.3
4th	Blacksod	" 40	"	Clacton	Day Rain 0.2
"	Liverpool	Sun 5.8	"	O'ness	Nt Rain 1
"	Plymouth	bc/b b bswc	14th	Liverpool	Sun 2.3
5th	Chester	Wthr 18-1h bcc	"	Croydon	Wthr 13-18h ofc mom
"	Harrogate	Mx 47	15th	Pembroke	Mx 46
"	Cranwell	Wthr 18-18 mbc	16th	Chester	Wthr 1-7h ors rs m.
"	Gorleston	Mx 48	"	Birr	Nt Rain 0.3
6th	Nairn	Sun 1.6	"	Shoeburyness	Mx 40
"	Blacksod	Mx 55	"	Pembroke	Sun 0.3
"	Holyhead	Wthr 18-1h ic rc b	17th	Liverpool	" 1.6
"	Calshot	Min 47	"	Leafield	Day Rain 1
7th	Aberdeen	Mx 51	18th	Renfrew	" " Tr.
"	Edinburgh	18th b 1-7h b	"	Leuchars	Min 29
"	Valentia	Min 45	"	Cranwell	Wthr 7-13h bccm.
"	Roches	Wthr 1-7h 0,c,r	"	Calshot	Sun 6.8
"	Ross	" 18-1h b	19th	Kew	" 0.0
"	W'chester	" 7-13h rimi,r	20th	Tiree	Wthr 13-18 c R
"	Lympne	G. Min 28	"	"	Sun 0.5
8th	Liverpool	Sun 0.3	"	Leuchars	Wthr 7-13h 0 c bwc f bcc
"	Kew	Min 50	"	Tynemouth	Min 5.1
"	Guernsey	" 5.0	21st	Birr	Sun 0.5
9th	Tiree	Mx 47: Sun 3.6	"	Croydon	Min 3, Min 25 25
"	Eskdalemuir	Day Rain 1	"	Lympne	G. Min 40
"	Pembroke	Mx 55	22nd	Croydon	Min 5.0
"	Shoeburyness	" 5.9	"	Clacton	Sun 6.4

Report for	STATION. Summary cont'd	CORRECTION.
23rd	Tiree	Day rain 1
"	Cranwell	Sun 3.9
"	Ross-on-Wye	Wthr 1-7h 0c0; Day rain 1.
"	Leafield	" 18-1h bcPR
24th	Holyhead	" 7-13h q brc K Q PR t c t r.
"	Birmingham	Sun 0.4
"	Pembroke	Min 4.8
"	Portland	Nt. rain 5.
"	Calshot	Wthr 1-7h bct t c p r c.
"	Ross	" 7-13h Ror Rc
25th	Lerwick	Min 4.7
"	Eskdalemuir	Day rain 4.
"	Harrogate	Wthr 18-1h bbc c r r
"	Pembroke	Mx 5.4
"	Winchester	Wthr 18-1h bcc o RR: 1-7h O RR r r
"	Plymouth	Sun 2.4
26th	Holyhead	Wthr 18-1h r c i r
"	Gorleston	Mx 56.
"	Calshot	Day rain 3.
"	Dungeness	" " 2.
27th	S. Farnboro	Wthr 7-13h co P c p c
28th	Portland	Day rain 3
29th	S. Farnboro	Wthr 1-7h bod, d, r, c
"	"	Min 4.9
"	Clacton	Nt. rain 0.1
30th	Wick	" " 8
"	Cranwell	Wthr 18-1h O b m a f r
"	Valentia	Mx 55
"	Clacton	Day rain 1
"	Lympne	G. Min 4.7

II.—ADDITIONS.

Report for	STATION.	Barom. at M.S.L. m.b.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9	WEATHER. 7h.-13h.	13h.-18h.	18h.-1h.	1h.-7h.	TEMPERATURE. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass.	RAINFALL. Day. 7h.-18h.	Night. 18h.-7h.	Precipitation began.	Sun. Hours.
8th	Cranwell 1h	(1008.0)	(-7)	(S.E)	(4)	(Cr R)	(51)	(97)	(6)	(800)	(Nb)	(9)	(As E)	(10)	*			(C R R)								
14th	Tiree 7h	29.11	0	NW	4	Cr o	38	85	8	2500	Cu Nb	8	-	8	1			bc pr o	p R	45	31	"		1	22.00	1.9
17th	Croydon 1h	(1001.8)	(+8)	(NWN)	(3)	Cc	(40)	(85)	(5)	(2500)	Cs Cu	(9)	(-)	(9)	*			5-m								
19th	Blacksod 18h	29.21	-3	S	5	R	61	85	7	"	Nb	10	-	10	7		rr	rr	rc	52	41	"	11	7	"	
"	" 1h	29.07	-1	S	4	R	47	85	7	"	Nb	10	-	10	"											
"	" 7h	29.07	0	S	3	C/r	48	85	8	"	Stu	10	-	10	6											
25th	" 18h	29.08	-1	S	4	C	60	76	7	"	Cu Nb	10	-	10	6		pr c	p c p b c	b p b c	51	47	"	2	5	"	
"	" 1h	29.64	-16	S	8	bc	61	75	7	"	Cu	4	-	4	*											
"	" 7h	29.73	+6	WNW	5	bc	48	75	8	"	Cu Nb	4	-	4	7											
29th	" 18h	29.19	0	-	0	C	48	92	C	"	-	0	As E	10	2		C/o	do	p b c	51	45	"	-	1	"	
"	" 1h	29.26	0	-	0	C	47	85	7	"	-	0	As E	10	"											
"	" 7h	29.20	0	N	1	bc	46	92	8	"	Cu	5	-	5	2											

‡ The barometric change is expressed in half millibars.