M.O FORM 2373

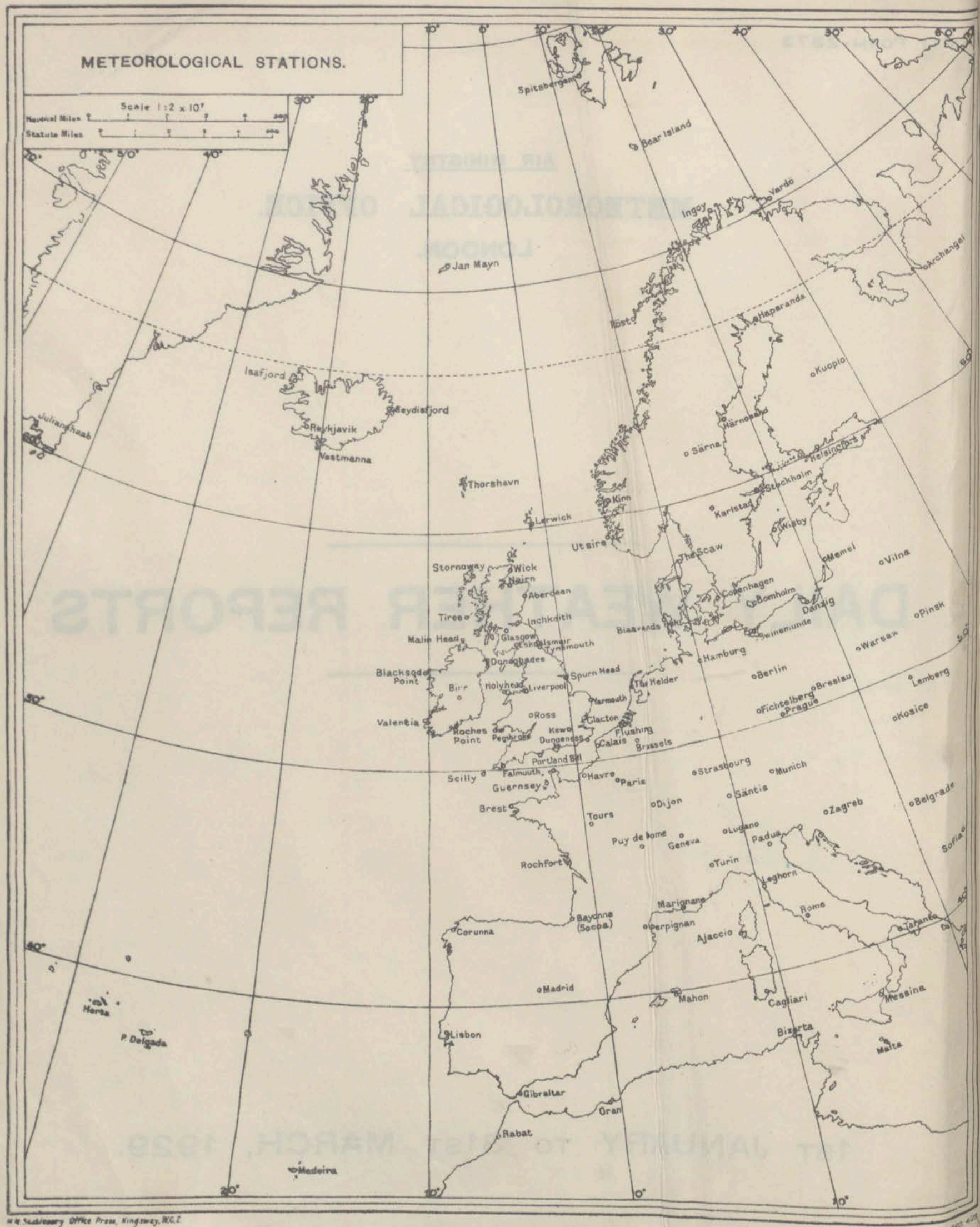
AIR MINISTRY.

METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

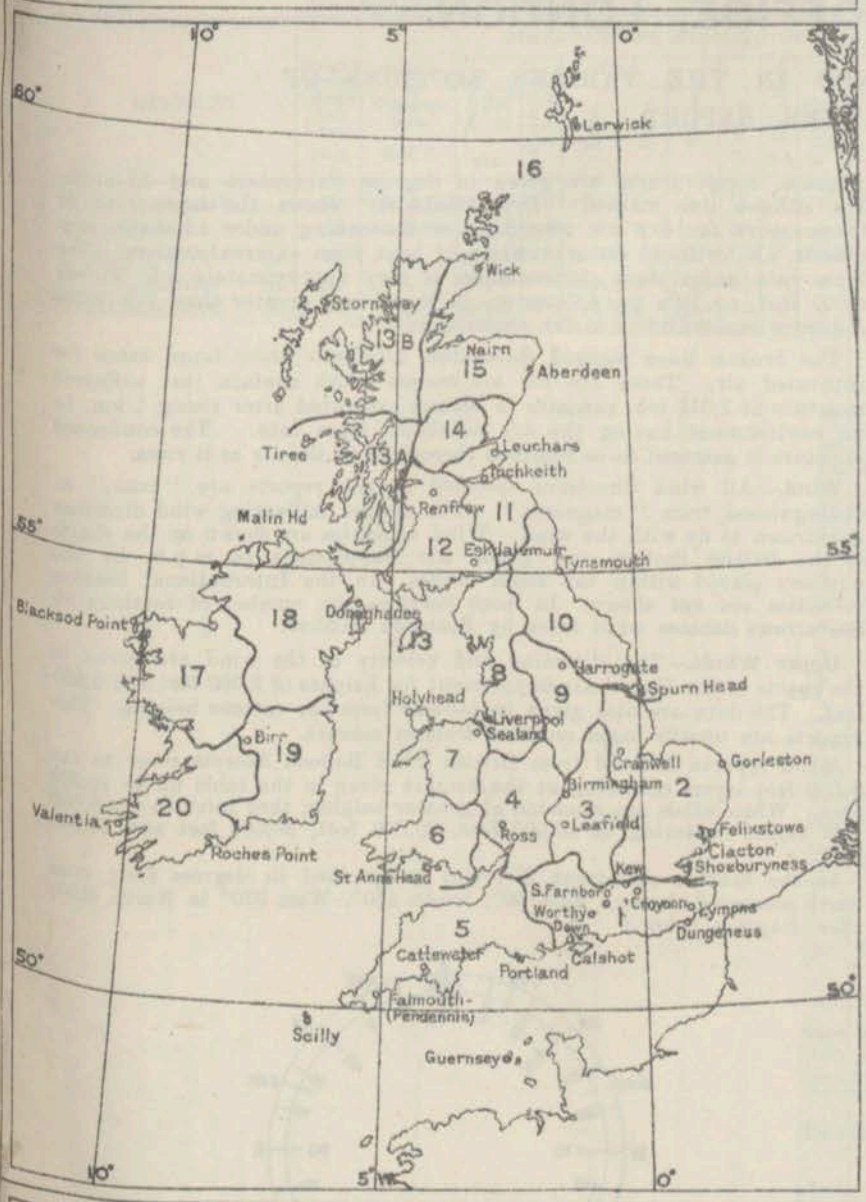
1ST JANUARY TO 31ST MARCH, 1929.



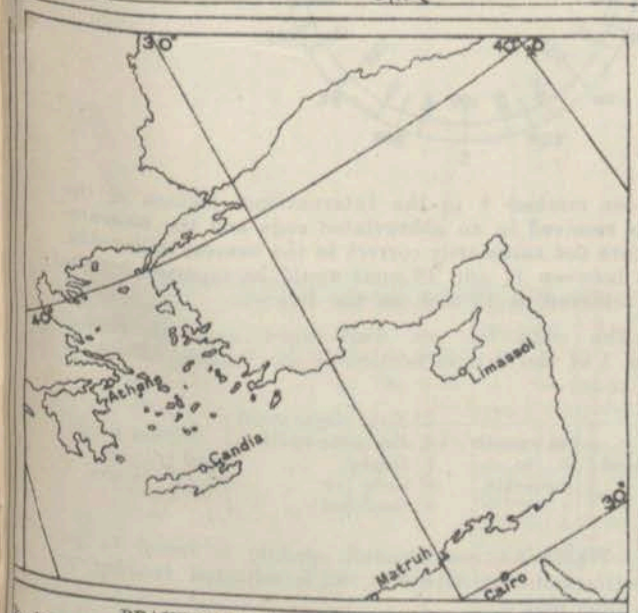
H.M. Stationery Office Press, Kingsway, W.C.2.

Pg. 1148/1873. No. 42. D.6006. 863. 4/29

FORECAST DISTRICTS AND BRITISH STATIONS.



STATIONS USED FOR UPPER AIR SUPPLEMENT.



BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy. d drizzle.
e wet air. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
g thick fog " less than 200 m.
y gloomy. p 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.

THE BEAUFORT SCALE OF WIND FORCE.

Beaufort Number.	Admiral Beaufort's General Description of Wind.	Specification for use on Land, based on observations made at Land Stations.	Limits of Mean Velocities Statute Miles per Hour.
0	Calm	Calm; smoke rising vertically	Less than 1
1	Light air ...	Direction of wind shown by smoke drift	1–3
2	Slight breeze ...	Wind felt on face; leaves rustle	4–7
3	Gentle breeze ...	Leaves and small twigs in constant motion; wind extends light flag	8–12
4	Moderate breeze	Raises dust and loose paper; small branches are moved ...	13–18
5	Fresh breeze ...	Small trees in leaf begin to sway; crested wavelets on inland waters...	19–24
6	Strong breeze ...	Large branches in motion; whistling heard in telegraph wires	25–31
7	Moderate gale ...	Whole trees in motion; inconvenience felt when walking against wind	32–38
8	Fresh gale ...	Breaks twigs off trees; generally impedes progress	39–46
9	Strong gale ..	Slight structural damage occurs (chimney pots and slates removed)	47–54
10	Whole gale ...	Seldom experienced inland; trees uprooted	55–63
11	Storm	Very rarely experienced; accompanied by widespread damage	64–75
12	Hurricane ...	... ...	Above 75

GALE WARNINGS.

The Meteorological Office issues warnings to ports and fishing stations of gales on or near the coasts of the British Isles. When one of these notices has been received at a station a black canvas cone is hoisted.

The *South Cone* (point downwards) is hoisted for gales from S.E., veering to S.W., W. or N.W.
" S.W., veering to W. or N.W.
" W., veering to N.W.
" E., veering to S. or S.W.

The *North Cone* (point upwards) is hoisted for gales from S.E., E. or N.E., backing to N.
" N.W., veering to N., N.E. or E.
" N., veering to N.E. or E.
" N.E., veering to E.

The Signals remain hoisted after the receipt of a warning telegram until danger of a gale is passed.

The Districts to which warnings are sent are shown in the British Section of the Daily Weather Report by the following symbols:—

▼ South Cone hoisted.
▲ North " "

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

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

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

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

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

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

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

GEOSTROPHIC WIND SCALE FOR

4 mb isobars on $1 : 2 \times 10^7$ Charts.
or 2 mb " " $1 : 10^7$ "
or 1 mb " " $1 : 5 \times 10^6$ "

Miles per hour.

This scale applies under the following conditions:—

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

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

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

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

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

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

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

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

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

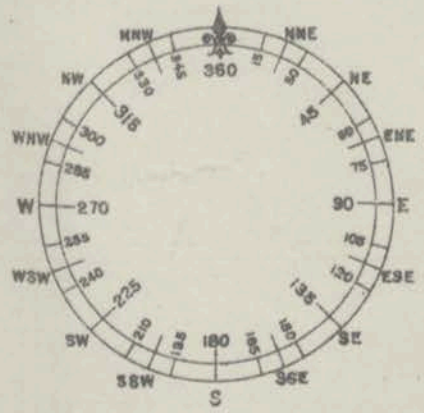
The broken lines marked Saturated Adiabatic show lapse rates for saturated air. These are for air masses which contain just sufficient moisture at 1,015 mb. pressure to become saturated after rising 1 km, in an environment having the dry adiabatic lapse rate. The condensed moisture is assumed to be retained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

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

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

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

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



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

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

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

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

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

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

Times of Sunrise, Noon and Sunset.—From January 1st, 1926, the times of Sunrise, Noon and Sunset published in the British Section of the Report for certain stations have been recalculated from (1) the figures for the duration of sunshine contained in the International Meteorological Tables and (2) the value of the sun's declination and the equation of time published in the Nautical Almanac. The change of declination of the sun on the same day from year to year over a cycle of four years is now taken into account. This change was formerly neglected.

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

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

Notes on the Weather of JANUARY, 1929.

The weather of January was on the whole, quiet and very cold with much fog at times, and many days with frost and snow. At Kew Observatory it was the coldest January since 1895.

During the first five days conditions were anticyclonic with little precipitation and varying amounts of cloud. At Renfrew temperature remained below freezing point night and day and fog persisted continuously for the first four days. Snow and sleet were recorded locally at this time and became more general round the 5th. and 6th. as a low developed over the Bay of Biscay. From the 5th. to 9th. temperature was very low in the more southerly districts of England, day temperatures not exceeding 32°F. for several days at some stations and remaining below or just touching freezing point at Leafield for as many as five consecutive days. Widespread fog occurred from 8th. to 10th. A depression off the Northwest coasts caused fairly heavy rain locally in the Northwest on the 8th. and later in other districts also.

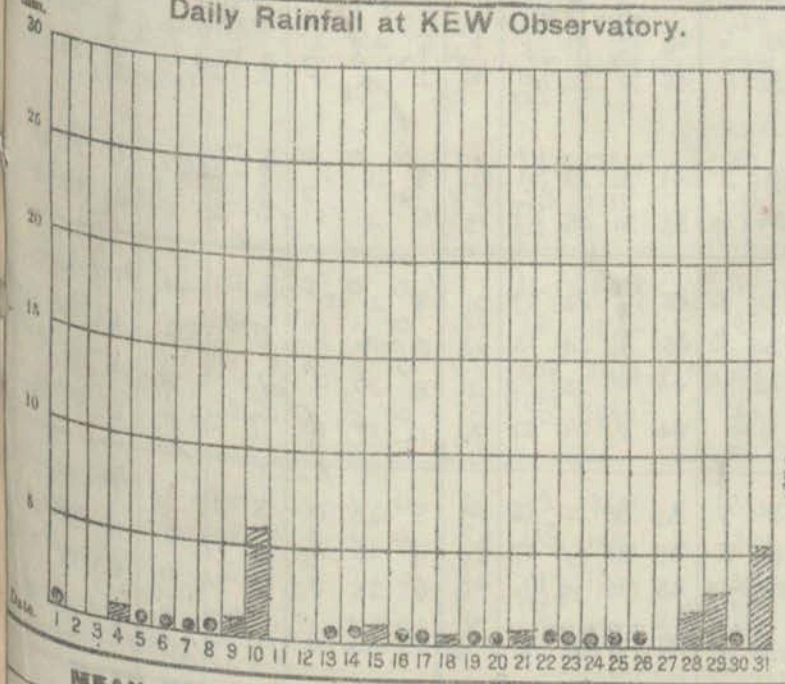
By the 12th, anticyclonic conditions were re-established but depressions moving southward over North Russia pushed the anticyclone to the westward of the British Isles occasioning northerly winds and wintry showers over this country until about the 16th. when pressure became very uniform.

A temporary rise in temperature occurred around the 18th. to 20th. with the advance of a depression from the Atlantic. Fog was again widespread from the 20th. to 23rd. and heavy rain occurred in the Southwest on the 22nd. Subsequently pressure became high in Arctic regions and relatively high over the British Isles, with a renewal of mainly northerly winds. Some wintry precipitation occurred in most districts but there were days with good local sunshine records.

A deep depression on the Atlantic brought warm southerly winds and a very marked rise in temperature on the 29th. and 30th.

The mean pressure for the month was abnormally high; at Aberdeen the mean pressure at 7 a.m. constituted a record for January since 1866. The month was mainly dry and in many places sunshine totals were also below normal.

Daily Rainfall at KEW Observatory.



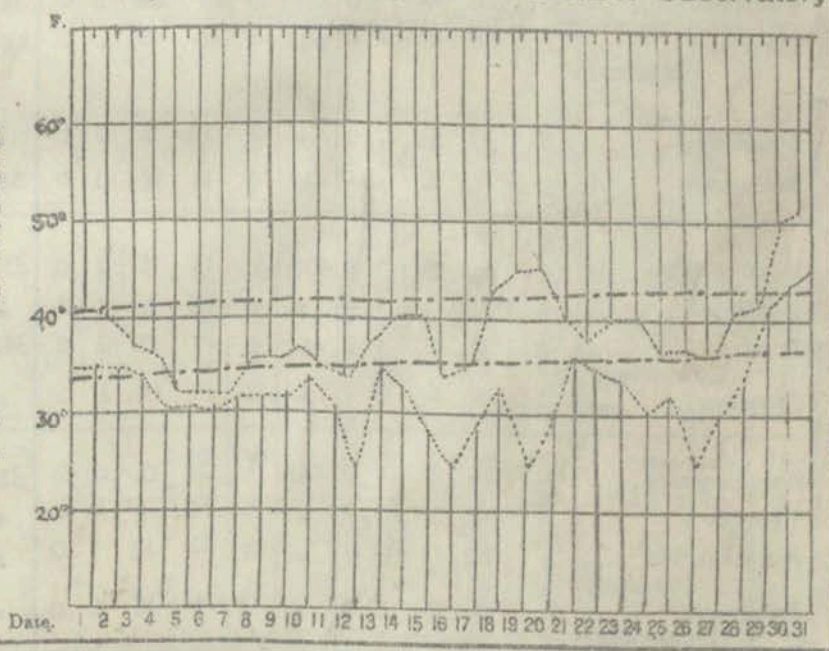
TEMPERATURE.

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 mm.

Daily Range of Temperature at KEW Observatory.

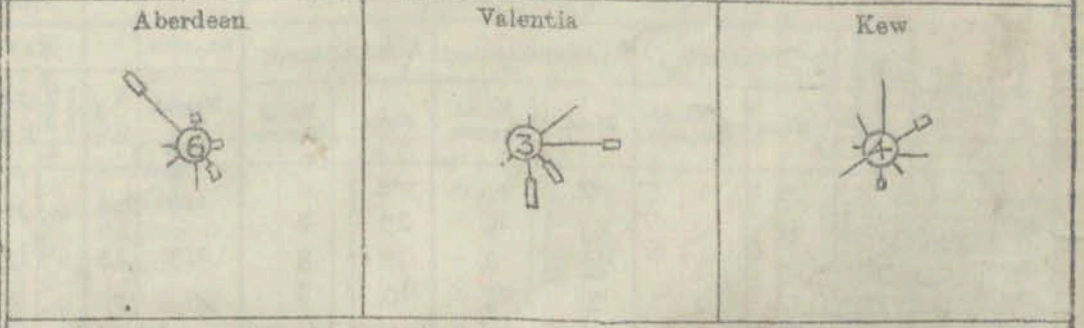


MEAN VALUES FOR THE MONTH.*

	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
	mb.	mb.	°F.	°F.
Aberdeen	1025·7	+14·5	35·7	−2·4
Valentia	1022·8	+7·8	42·3	−2·[illegible]
Kew	1025·6	+8·0	35·5	−3·5

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

WIND FREQUENCIES AT 7h.



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

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

Ps.1158/1844. W. 37. 0.6005. 950. 2/29.

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE,

	TEMPERATURE.																						LOW CLOUD.								
	Number of daily readings within fixed limits.											Extremes—Warmest and Coldest.									Number of observations within fixed limits.								
												Days.				Nights.					7H.			13H.			18H.		
	† Maximum.						† Minimum.																								
	32 or below	33 — 41	42 — 50	51 — 59	60 — 68	Normal Max.	23 or below	24 — 32	33 — 41	42 — 50	51 — 59	Normal Min.	Highest Max.	Date.	Lowest Max.	Date.	Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.	Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.
						°F.						°F.	°F.		°F.		°F.		°F.											
Stornoway ...	0	18	12	1	0	43·7	1	13	14	3	0	34·9	53	31	35	12, 28	47	31	22	29	*	0	28	0	0	28	0	0	30	0
Aberdeen ...	1	22	7	1	0	42·3	2	11	17	1	0	33·2	52	30	32	16	44	31	17	18	21	0	29	0	1	27	0	0	25	0
Edinburgh ... (Inchkeith)	1	25	3	2	0	*	0	10	19	2	0	*	53	30, 31	32	28	43	31	28	28	19	13	17	0	16	13	0	18	10	0
Renfrew	5	18	6	2	0	*	7	12	9	3	0	*	52	31	24	4	45	20	17	2, 28	19	6	17	3	10	13	3	7	17	0
Eskdalemuir ...	4	23	4	0	0	*	5	20	6	0	0	*	49	30, 31	27	28	39	20, 31	13	1	24	11	16	0	7	18	0	10	16	0
Dublin ... ... (Phœnix Park)	0	15	10	5	1	45·7	4	9	14	3	1	34·6	61	30	35	7	51	30	21	17	13	*	*	*	*	*	*	*	*	*
Birr Castle ...	0	18	9	4	0	45·2	3	11	11	5	1	34·3	56	30	33	6	52	30	20	25	18	8	22	0	5	24	0	6	24	0
Valentia ... ... (Cahirciveen)	0	6	17	8	0	48·5	0	8	12	10	1	40·2	55	30	37	6	52	30	25	2	9	4	25	0	9	20	0	8	23	0
Tynemouth ...	0	25	6	0	0	43·5	0	7	23	1	0	33·6	50	30	33	17, 21	45	31	28	18	13	1	30	0	5	26	0	5	26	0
Holyhead ...	0	14	16	1	0	45·2	0	0	26	5	0	38·4	55	30	35	6	48	30, 31	33	7, 8	5	5	20	2	5	19	2	4	20	0
Liverpool ... (Ridston)	1	25	4	1	0	43·3	0	10	19	2	0	35·3	56	30	32	6	46	31	30	21, 27	16	2	28	0	2	27	0	5	20	0
Cranwell	5	19	6	1	0	*	2	24	5	0	0	*	52	30	30	21	41	31	23	17, 21	21	8	20	1	7	22	1	5	22	1
Gorleston ...	0	26	5	0	0	41·8	0	13	18	0	0	33·7	46	19	34	17, 25, 27	38	31	25	18, 27	13	5	21	1	6	20	0	6	18	1
Ross-on-Wye ...	2	22	5	2	0	43·8	1	13	15	2	0	33·2	58	30	30	6	48	30, 31	22	27	21	3	21	0	9	19	1	12	16	0
Leafield	6	22	2	1	0	*	0	27	3	1	0	*	53	30	30	9	43	31	24	13	23	9	16	1	11	15	2	8	15	3
London ... ... (Kew Obsy.)	3	22	5	1	0	43·1	0	17	12	2	0	34·6	51	31	32	5, 6, 7	44	31	25	13, 17, 20, 27	21	8	20	0	7	18	2	8	15	0
Croydon	3	22	6	0	0	*	2	14	14	1	0	*	50	30	31	5, 6	44	31	22	27	20	12	17	0	7	20	1	8	17	0
Shoeburyness ...	0	26	5	0	0	42·9	1	21	9	0	0	33·7	47	19, 30	34	7	39	31	20	18	19	5	23	0	5	19	3	1	18	1
Lympne	5	23	3	0	0	*	2	19	10	0	0	*	44	19	30	5	39	31	21	17	20	8	13	2	9	17	3	11	15	0
Southampton ... (Calshot)	0	20	11	0	0	*	0	12	18	1	0	*	45	18, 30	33	6, 7, 9	43	30	25	17, 27	16	6	23	0	5	24	0	6	18	1
Falmouth ... (Pendennis)	0	13	13	5	0	*	0	4	18	9	0	*	52	21, 29, 30	35	4	49	30, 31	28	8	*	0	30	0	0	31	0	0	31	0

UPPER AIR TEMPERATURE.

Pressure.	Normal Height.	Normal Temperature.	Duxford. Mean.	Duxford. No. of Reports.	S. Farnborough. Mean.	S. Farnborough. No. of Reports.	Aldergrove. Mean.	Aldergrove. No. of Reports.
mb.	feet.	°F.	°F.		°F.		°F.	
950	1800	33	35	2	32	8	29	3
850	4,690	26	27	2	22	9	19	3
750	7,910	18	17	2	13	8	10	3
650	11,510	7	11	2	4	5	1	1
550	15,620	−6	–	–	−10	3	–	–

UPPER WINDS.

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

Station.	Renfrew.							Cattewater.							Lympne.						
Height. Feet.	No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.		No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.		No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	26–45 m.p.h.	46–75 m.p.h.	Above 75 m.p.h.
2,000	33	6	21	6	–	–		49	3	37	9	–	–		53	6	27	18	2	–
5,000	22	6	12	3	1	–		14	1	8	4	1	–		14	5	7	2	–	–
10,000	17	1	8	6	2	–		3	–	3	–	–	–		1	1	–	–	–	–
15,000	11	1	3	2	5	–		–	–	–	–	–	–		–	–	–	–	–	–

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

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

	SUNSHINE.											RAINFALL.													
	Number of Days with duration.					Maximum Duration.		Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.	Number of days with amount.‡						Maximum fall in 24 hrs.		Total for past 12 months.	Difference from Average.	Total for Month‡	Difference from Average.	Days with Thunder.	Days with Snow or Sleet.
	Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Hours.	Date.					0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	mm.	Date.						
								hours.	hours.	hours.	hours.									mm.	mm.	mm.	mm.		
Stornoway ...	14	9	8	0	0	5·2	22	1262	+3	48	+20	11	7	11	2	0	0	9	20	1116	−150	47	−84	0	1
Aberdeen ...	14	11	6	0	0	5·4	17, 28	1210	−177	37	−11	15	3	11	2	0	0	10	29	765	+17	47	−8	0	11
♮Edinburgh (Inchkeith) ...	14	12	4	1	0	6.4	21	1399	*	38	*	21	6	3	1	0	0	5	9	605	+51	17	−17	0	6
♮Renfrew	20	7	2	2	0	6·2	25	1152	*	30	*	22	4	2	2	1	0	17	29	1107	+182	42	−46	0	7
♮Eskdalemuir ...	13	11	5	2	0	7·0	25	1164	*	48	*	18	5	3	4	1	0	19	29	1884	+455	56	−81	0	14
Dublin ... ... (Phœnix Park)	16	13	2	0	0	5·3	24	1469	−38	29	−28	21	4	6	0	0	0	5	29	743	+38	23	−35	0	*
Birr Castle ...	15	12	4	0	0	5·6	16	1370	+27	36	−13	17	7	4	3	0	0	11	29	953	+124	37	−35	0	2
Valentia ... ... (Cahirciveen)	14	9	5	3	0	6·3	1, 25	1404	−41	52	+4	18	1	7	3	2	0	20	28	1663	+249	90	−49	0	1
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	9	6	12	4	0	0	12	9, 15	645	+24	75	+34	0	8
Holyhead ...	14	8	6	3	0	7·1	21, 22	1579	*	60	*	17	4	5	5	0	0	15	9	941	+53	61	−13	0	3
♮Liverpool (Bidston) ...	17	8	5	1	0	6·2	25	?1415	−41	?37	−18	19	4	6	2	0	0	14	27	663	−46	39	−15	0	8
♮Cranwell	17	8	6	0	0	5·8	16	1562	*	37	*	13	8	9	1	0	0	7	28	537	−53	31	−13	0	15
♮Gorleston ...	19	6	5	1	0	6·6	20	1715	*	38	*	13	10	6	2	0	0	9	29	548	−74	34	−10	0	13
Ross-on-Wye ...	15	9	7	0	0	5·7	16	1481	*	37	*	20	7	2	2	0	0	13	31	648	−70	25	−37	0	5
♮Leafield	15	9	6	1	0	6·3	16	1564	*	42	*	18	6	6	1	0	0	9	31	656	−38	29	−24	0	15
London ... ... (Kew Obsy.)	17	9	4	1	0	6·6	19	1623	+148	32	−11	20	5	4	2	0	0	6	10	583	−23	22	−23	0	11
♮Croydon	22	5	2	2	0	7·7	20	1627	*	27	*	21	4	4	2	0	0	8	10, 31	696	+17	29	−23	0	15
Shoeburyness ...	16	11	1	3	0	7·3	19	1831	*	38	*	17	8	5	1	0	0	9	31	531	+51	24	−9	0	11
♮Lympne	13	14	1	3	0	7·8	19, 20	1883	*	39	*	15	9	5	2	0	0	9	31	719	−5	30	−26	0	15
♮Southampton (Calshot) ...	15	7	7	2	0	7·6	19, 20	1833	*	56	*	20	4	6	1	0	0	9	31	626	−20	24	−28	0	7
Falmouth ... Observatory	12	10	7	2	0	7·5	20	1726	−33	63	+5	14	8	4	2	2	1	26	28	1124	+17	91	−16	0	2

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	4	20	5	0	0	0	0
Renfrew... ...	4	3	8	11	2	3	0	0	0
Eskdalemuir ...	2	2	10	9	6	2	0	0	0
Valentia... ...	0	1	7	7	13	3	0	0	0
Ross on Wye ...	2	7	7	5	6	2	2	0	0
London ... ... (Kew Obsy.)...	0	2	7	10	7	4	1	0	0
Falmouth ...	2	4	3	9	11	2	0	0	0

STATE OF GROUND AT 13 h.

No. of Days each type was recorded.

Station.	0	1	2	3	4	5	6	7	8	9
Aberdeen ...	0	9	10	5	0	0	1	5	0	1
Renfrew... ...	0	6	5	4	0	0	4	3	0	9
Eskdalemuir ...	0	0	3	7	0	0	0	20	1	0
Valentia... ...	0	18	11	2	0	0	0	0	0	0
Ross on Wye ...	1	12	16	2	0	0	0	0	0	0
London ... ... (Kew Obsy.)...	0	10	7	11	0	0	0	3	0	0

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (not less than 2 ins. deep).
4 = Bare ground frozen (not 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).

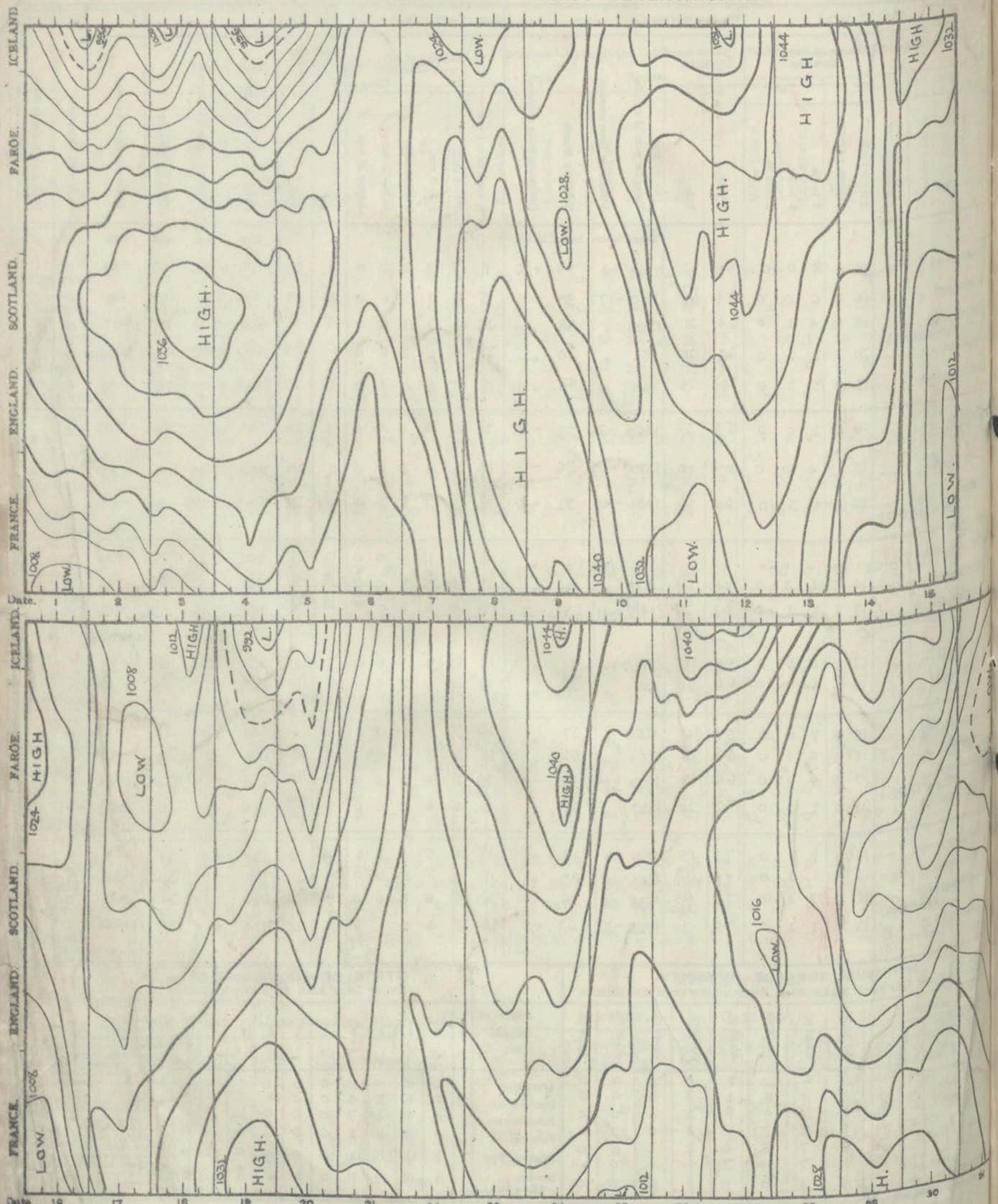
♮ The average sunshine for Liverpool and the average rainfall for the other stations marked ♮ have been computed from the records available for these several stations by reference to the nearest stations with long records.

‡ 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 JANUARY, 1929

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



——— = 1,020 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 Marseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 18h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 65°N., Long. 18° W. in the north, at Lat. 44½° N., Long. 4° E. in the south.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24,512 Tuesday 1st January 1929.

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

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1019.2	+1	NW	1	c	39	75	8	1500	StCu	5	ASt	9	·
Stornoway	1022.0	+2	-	0	bc-	40	85	7	4000	Cu	2	ACu	5	·
Wick	1021.3	+4	NE	2	c	41	75	8	1500	CuNb	6	ASt	8	·
Tiree	1021.8	+4	ENE	4	b	42	75	9	-	-	0	CiCu	2	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1020.2	+2	NNW	2	bc	39	65	8	2500	StCu	2	CiSt	5	1
Malin Head	1021.4	+4	NE'E	4	c	42	75	9	5700	StCu	2	ACu	8	·
Renfrew	1020.4	+4	NE	3	c	37	65	8	4000	Cu	9	-	9	9
Edinburgh (Inchkeith)	1018.6	+4	NE	5	c	38	75	8	4000	Cu	2	ASt	9	·
Leuchars	1019.7	+3	NNE	2	c	36	76	8	4000	StCu	7	ACu	9	2
Eskdalemuir	1018.3	+5	NNE	4	c+	33	65	9	2500	St	9	-	9	7
Tynemouth	1015.1	+5	NE	3	bc/s	40	75	8	1500	CuNb	6	-	6	·
Blacksod Point	1022.6	+4	E	5	bc	41	55	9	*	StCu	5	-	5	·
Donaghadee	1019.4	+4	ENE	6	b	40	55	8	4000	Cu	1	-	1	·
Birr Castle	1016.9	·	NNE	3	b-	37	65	7	-	-	0	CiCu	1	·
Holyhead	1014.2	+5	NE	6	c+	42	76	7	2500	StCu	8	-	8	1
Liverpool (Bidston)	1013.6	+5	NE	5	c+	38	65	6	2500	CuNb	9	-	9	·
Chester (Sealand)	1012.6	+5	N'E	3	c+	39	75	5	2500	St	8	-	8	1
Harrogate	1013.7	+3	ENE	4	b-	37	75	8	4000	CuNb	1	-	1	·
Spurn Head	1009.5	+4	NE'N	6	bc	39	76	7	4000	CuNb	6	-	6	·
Birmingham (Edgbaston)	1009.8	+6	NE	5	bcrs-	35	92	4	1500	Nb	6	-	6	2
Cranwell	1010.0	+6	NE	6	cr₀	38	85	7	800	StCu	8	ACu	9	2
Gorleston	1006.7	+7	ENE	7	oh(r)	39	97	6	800	Nb	10	-	10	·
Valentia (Cahirciveen)	1017.6	+3	NE'E	5	b	39	65	8	2500	Cu	1	-	1	0
Roches Point	1015.2	+3	N	3	b	39	75	8	-	-	0	CiCu	1	·
Pembroke (St. Ann's H.)	1009.9	+6	NE	2	bc-	4[illegible]	85	7	1500	Cu	3	Ci	6	·
Ross-on-Wye	1008.4	+5	NE	6	bc-	39	76	6	4000	Cu	4	ACu	5	2
Leafield	1006.6	+5	NE'N	5	crs₀	36	85	7	4000	StCu	7	ASt	9	2
Winchester (Worthy Dn.)	1003.4	+5	N'E	4	cr₀	39	75	8	450	Nb	10	-	10	2
S. Farnborough	1003.7	+6	NE	4	o	38	85	7	1500	Nb	10	-	10	2
London (Kew Obsy.)	1004.0	+5	NE'E	5	c	39	75	6	800	St	8	ACu	9	2
Croydon	1003.3	+4	NE	5	or₀r₀	37	92	4	450	Nb	10	-	10	2
Shoeburyness	1003.1	+7	NNE	5	orr	38	87	7	1500	Nb	10	-	10	·
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1004.2	+6	NE'N	6	cr₀r₀	39	85	7	1500	Nb	8	ASt	10	2
Lympne	1000.9	+2	NE	4	cr₀r₀	39	75	6	1500	StCu	8	ASt	9	1
Scilly (St. Mary's)	1006.4	+4	N'E	7	c+	44	75	8	4000	Cu	8	-	8	·
Falmouth (Pendennis)	1005.7	+3	NE'N	5	c+	42	85	8	4000	Cu	6	Ci	8	·
Plymouth (Cattewater)	1004.2	+4	NNE	7	c	42	76	7	2500	Nb	9	-	9	2
Portland Bill	1002.1	+6	NE	5	c	41	75	8	1500	StCu	9	-	9	·
Southampton (Calshot)	1003.0	+6	NNE	6	c	40	85	7	1500	StCu	9	-	9	1
Dungeness	1000.0	+4	E	4	c	42	75	8	2600	Cu	8	CiCu	9	·
Guernsey (Fort George)	999.9	+3	NE	6	cr	42	85	7	1500	CuNb	8	-	8	·

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

STATIONS.	Barom. M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1017.0	-2	WNW	3	cr₀	40	85	8	1500	CuNb	5	ASt	10	·
Stornoway	1023.5	+1	-	0	c+	37	97	9	4000	StCu	10	·	10	0
Wick	1021.7	+1	W	2	bc	33	97	8	2500	StCu	3	CiSt	7	1
Tiree	1023.9	+2	-	0	b-	34	85	9	-	-	0	-	0	1
Nairn	1022.2	·	ENE	1	bc	33	85	8	2500	Cu	5	-	5	·
Aberdeen	1022.0	+2	NWW	3	bc	34	86	7	2500	StCu	2	CiSt	3	1
Malin Head	1024.8	+5	NE	3	b	40	75	9	-	-	0	ACu	1	1
Renfrew	1024.0	+5	NNW	2	b-	30	75	7	-	-	0	-	0	·
Edinburgh (Inchkeith)	1023.3	+4	NE	4	bc	36	75	7	2500	St	3	-	3	1
Leuchars	1022.4	+3	NW	2	b-	35	65	8	4000	StCu	1	-	1	·
Eskdalemuir	1023.0	+6	N'W	4	b-	29	75	8	4000	StCu	1	Ci	2	·
Tynemouth	1021.2	+5	NNE	4	c	39	55	8	1500	Cu	9	-	9	6
Blacksod Point	1024.9	+2	E	3	bc	40	65	7	·	StCu	5	-	5	4
Donaghadee	1022.3	+4	E	4	bc	40	[illegible]	8	4000	Cu	3	-	3	5
Birr Castle	1022.4	·	NNE	3	b	33	75	7	800	St	2	-	2	·
Holyhead	1019.5	+6	NE'E	5	bc	41	75	7	2500	StCu	7	-	7	5
Liverpool (Bidston)	1019.8	+7	NE'N	4	c	36	75	7	4000	StCu	9	-	9	·
Chester (Sealand)	1019.0	+8	N	3	b-	36	85	6	4000	StCu	2	-	2	·
Harrogate	1019.8	+5	NNE	3	c	35	85	7	4000	Nb	9	ASt	10	·
Spurn Head	1015.9	+4	NE'N	6	c	39	65	7	4000	CuNb	8	-	8	5
Birmingham (Edgbaston)	1017.1	+8	NNE	4	c	36	75	6	2500	StCu	9	-	9	·
Cranwell	1016.5	+8	NE'N	4	b	34	86	7	1500	Nb	2	-	2	·
Gorleston	1012.7	+8	NE'E	7	c	39	86	7	1500	Nb	9	-	9	6
Valentia (Cahirciveen)	1022.9	+6	E'S	3	b	37	55	8	2500	Cu	1	-	1	3
Roches Point	1020.2	+7	N	3	b	37	85	8	-	-	0	CiCu	2	0
Pembroke (St. Ann's H.)	1015.7	+12	NE	3	bc	38	85	7	1500	Cu	3	Ci	5	3
Ross-on-Wye	1015.0	+7	NNE	6	bc-	37	66	6	2500	St	4	-	4	·
Leafield	1013.7	+9	NNE	5	c	35	85	7	4000	StCu	9	-	9	·
Winchester (Worthy Dn.)	1010.7	+10	N'E	4	c	38	75	8	1500	St	8	ASt	10	·
S. Farnborough	1010.8	+8	NE	4	c	38	75	7	1500	St	8	ASt	10	·
London (Kew Obsy.)	1011.6	+6	NE'E	5	c/r	38	85	6	2500	StCu	6	ACu	9	·
Croydon	1010.7	+9	NE'N	4	mmo	38	85	4	800	St	10	-	10	·
Shoeburyness	1011.3	+9	NE	5	c	35	85	7	1500	CuNb	10	-	10	·
Clacton-on-Sea	1010.3	+9	NE	6	o	40	75	7	2500	Nb	10	-	10	4
Felixstowe	1011.7	+9	NNE	5	cr	37	85	7	1500	Nb	8	ASt	10	6
Lympne	1008.3	+9	NNE	6	crs	38	86	6	800	Nb	7	ASt	10	·
Scilly (St. Mary's)	1011.9	+6	NNE	7	c	43	75	6	4000	Cu	8	-	8	6
Falmouth (Pendennis)	1012.2	+5	NE	5	bc	40	85	7	4000	Cu	7	-	7	1
Plymouth (Cattewater)	1011.2	+8	NE	6	b	40	85	7	2500	StCu	1	-	1	3
Portland Bill	1009.1	+5	NNE	6	c	40	75	8	2500	StCu	10	-	10	6
Southampton (Calshot)	1010.0	+9	NE'N	5	c	40	75	7	2500	StCu	9	-	9	3
Dungeness	1007.2	+6	E	5	oda	41	85	7	1500	Nb	10	-	10	5
Guernsey (Fort George)	1015.9	+8	NE	7	c/r	43	75	7	1500	CuNb	8	-	8	7

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	Temp. Max. Day °F.	Temp. Min. Night °F.	Temp. Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h.
Kew	18	cr₀r₀c	c₀c₀c	cr₀bcc	40	35	32	[illegible]	[illegible]	0.0	*	*	5
Croydon	244	[illegible]	[illegible]	[illegible]	39	35	31	[illegible]	0.1	0.0	*	*	4
Greenwich (Royal Obsy.)	149	cr₀r₀	cp₀d₀	cid₀bc	39	35	29	0.3	Tr	0.0	81	81	4
City (Bunhill Row)	80						*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	41	36	33	0.2		0.0	80	75	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	odoc	oc	*	37	37	*	T		*	*	84	*
Kensington Palace	80	cor	bc	*	39	36	-	0.4	0.2	*	(At 18h)	80	*
Hampstead Observatory	450	*	*	*	38	31	-	1	Tr	0.1	*	96	*

24 HOURS ENDED 9h.

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
[illegible]		[illegible]	

Kew Observatory Max.	Time.	Min.	Time.
0·3	4h 31m	<0·1	4h 1m

POLE STAR RECORD at Greenwich Obsy.

Exposure from 31st 17 h. 15 m. to 1st 7 h. 00 m.

Stars	Exposure h. m.	Record h. m.	%
Polaris	13.45	2 58	22
δ Ursae Minoris	13.45	2 40	19

CODE FOR STATE OF GROUND.
0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, 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 January, 1929

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·7 8·7	11·57 11·57	15·46 15·47
Greenwich	8·8 8·8	12·4 12·4	15·59 16·0
Wick	9·5 9·5	12·16 12·16	15·27 15·27
Valentia	9·52 9·51	12·45 12·45	16·38 16·39

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

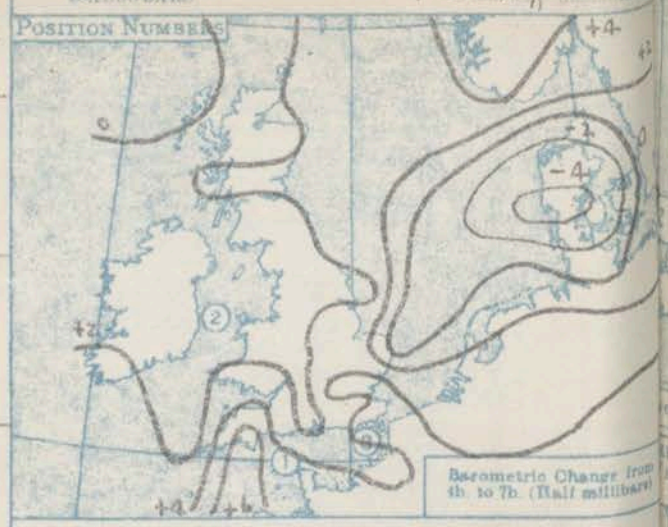
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 31st	13h.-18h. 31st	18h. 31st to 1h. 1st	1h.-7h. 1st	TEMPERATURE. MAX. Day 7h.-18h.	MIN. Night 18h.-7h.	MIN on Grass	RAINFALL.† Day 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	SUN 31st Hours.
Lerwick	c	c.r.	c.pr.	c.pr.	41	36	*	Tr.	17.30	3	<21.00	0.0
Stornoway	c	c	bbc	c	42	34	*	-	-	-	-	1.8
Wick	c.r.c	b.bc	bbc	bc.pr.c	43	33	*	0.4	11.00	1	1.30	*
Tiree	c.bc	bc b	bbc	cbc	43	31	19	-	-	(Tr.)	?	5.1
Nairn	c.prs	c.bc.x	bc.x.c	cq	40	32	*	0.2	11.00	-	-	0.3
Aberdeen	bc	bc.bc	bc	bc	39	33	28	-	-	-	-	1.8
Malin Head	bbc.cy	c.bc.bv	bbc	bc.c.e	43	31	*	-	-	-	-	3.1
Renfrew	c	c.bc	bm.x	bm.x	37	20	13	-	-	(Tr.)	-	2.3
Edinburgh (Inchkeith)	c	c.bc	bc.bbc	bc.m.m.n	41	30	27	-	-	-	-	0.8
Leuchars	c	c.bc	b.x.bc.x	bbc.x	37	29	24	-	-	-	-	1.1
Eskdalemuir	bc.jpc	c.bc	b	b	34	13	10	-	-	-	-	1.6
Tynemouth	c.p.s.q	bc.c	c.bc	c.o	41	33	29	0.6	<8.00	-	-	*
Blacksod Point ...	bc	bc	b	b.c.c	42	32	*	-	*	-	*	*
Donaghadee	b	b.bc	bbc	bc.x.c	40	31	*	-	-	-	-	*
Birr Castle	bc.b	b	b.x	b.x	38	21	8	-	-	-	-	3.8
Holyhead	pr.c.bc	pr.c.bc	bc.bbc	bc.b	42	39	36	Tr.	<8.00	-	-	3.7
Liverpool (Bidston) ...	c.b.3.c	c.3.b	c.c.b.c.b	b.b.x	38	33	28	-	-	-	-	2.3
Chester (Sealand) ...	bc.c.m.	c.bc.m.	b.m.x	b.m.x	39	31	26	-	-	-	-	1.1
Harrogate	c.p.s.b.c.b	bbc.c.p.s	c.p.s.b.c.b	b.c.b.x	38	31	26	0.1	<8.00	Tr	<21.00	2.9
Spurn Head	c.bc	c.r.p.r.c	c.p.r.c.p.r.s	c.p.r.bc	41	35	*	Tr.	16.30	0.3	<21.00	1.7
Birmingham (Edgbaston)	c.p.r.s	c.p.r.s	c.bbc	bc	37	32	29	1	9.00	-	-	0.2
Cranwell	or.c.p.r.s.c	c.p.bc	bbc	c.b.b.c	39	31	29	0.2	<8.00	-	-	1.0
Gorleston	o.i.r.q	o.h.r.c.q	c.r.q	c.p.h.	41	35	33	2	<8.00	0.5	<21.00	0.0
Valentia (Cahirciveen)	c.bc.b	b.y	b.y.b.x	b.x	39	31	24	-	-	Tr	-	5.8
Roches Point	bc.b	b	b.x.bc.x	bc.x.b.x	40	32	*	-	-	-	-	*
Pembroke (St. Ann's H.)	bc.bc	bc.m	bbc	bc	41	34	*	-	-	-	-	2.3
Ross-on-Wye	i.d.q.c.q	bc.q.c.q	bc.q.bbc	bc.b.b.c.c	39	33	28	0.1	9.00	-	-	1.3
Leafield	o.r.s.r.c	c.p.r.	c.b	b.c	37	31	28	3	<8.00	0.1	-	1.0
Winchester (Worthy Dn.)	c.p.r.c.i.r.	c.r.c	c.b.c.b	b.b.c.c	39	33	28	0.3	<8.00	-	-	0.0
S. Farnborough ...	o.r.r.o	o.r.r.s.c	c.o.r.s.c	c	38	34	29	0.6	<8.00	Tr	<21.00	0.0
London (Kew Obsy.) ...	c.r.s.r.c	c.r.c	c.p.bc	b.c.c	40	35	32	1	<8.00	0.1	<21.00	0.0
Croydon	o.m.r.s.	o.m.r.r.c.r.	o.m.r.c	c.b.c.c	39	35	31	2	<8.00	0.1	<21.00	0.0
Shoeburyness	o.r.r	o.i.r	o.i.r	o	39	32	31	5	<8.00	1	<21.00	0.0
Clacton-on-Sea ...	c.o.p.r	o.p.r.o	o	o.p.r.s.c	40	35	31	5	<8.00	1	<21.00	0.0
Felixstowe	c.r.s.	c.m.r	c.r.r.r.s.	c	40	34	31	3	<8.00	0.1	<21.00	0.0
Lympne	c.d.d.m.c.r	c.m.o.r.s.m	o.r.s.p.s.	o.p.s.c	40	34	31	2	<8.00	0.2	<21.00	0.0
Scilly (St. Mary's) ...	b.c.c.p.	c.p.	c.b.c	b.c	44	39	*	0.1	<8.00	-	-	0.0
Falmouth (Pendennis)	b.c.q	c.b.c.q	b.c.b.q	b.q	42	34	*	-	-	-	-	1.4
Plymouth (Cattewater)	c.q.s.	c.b.q	b.b.c.q	b.b.c	43	35	31	Tr.	11.00	-	-	1.6
Portland Bill	c	c	c.b.c	b.c.c	42	35	*	-	-	-	-	*
Southampton (Calshot)	c.d.i.r.c	c.m.d.c.q	c.q.b.c	b.c.b.c	41	35	31	0.1	9.00	Tr	<21.00	0.0
Dungeness	c	c.r.d.d	c.d.r.s.	c.p.k.c	42	-	*	1	15.30	1	<21.00	*
Guernsey	c.r.q.b.c.k.r.h.q.t		c.r.q	c.q.v	44	40	*	1	<8.00	Tr	<21.00	2.0

ISALLOBARS — 1st January, 1929



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Probability.
2	31st 10h	Scotia	NE'N	7	C	50	41	7
3	1st 2h	Dieppe	ENE	6	C	48	41	7

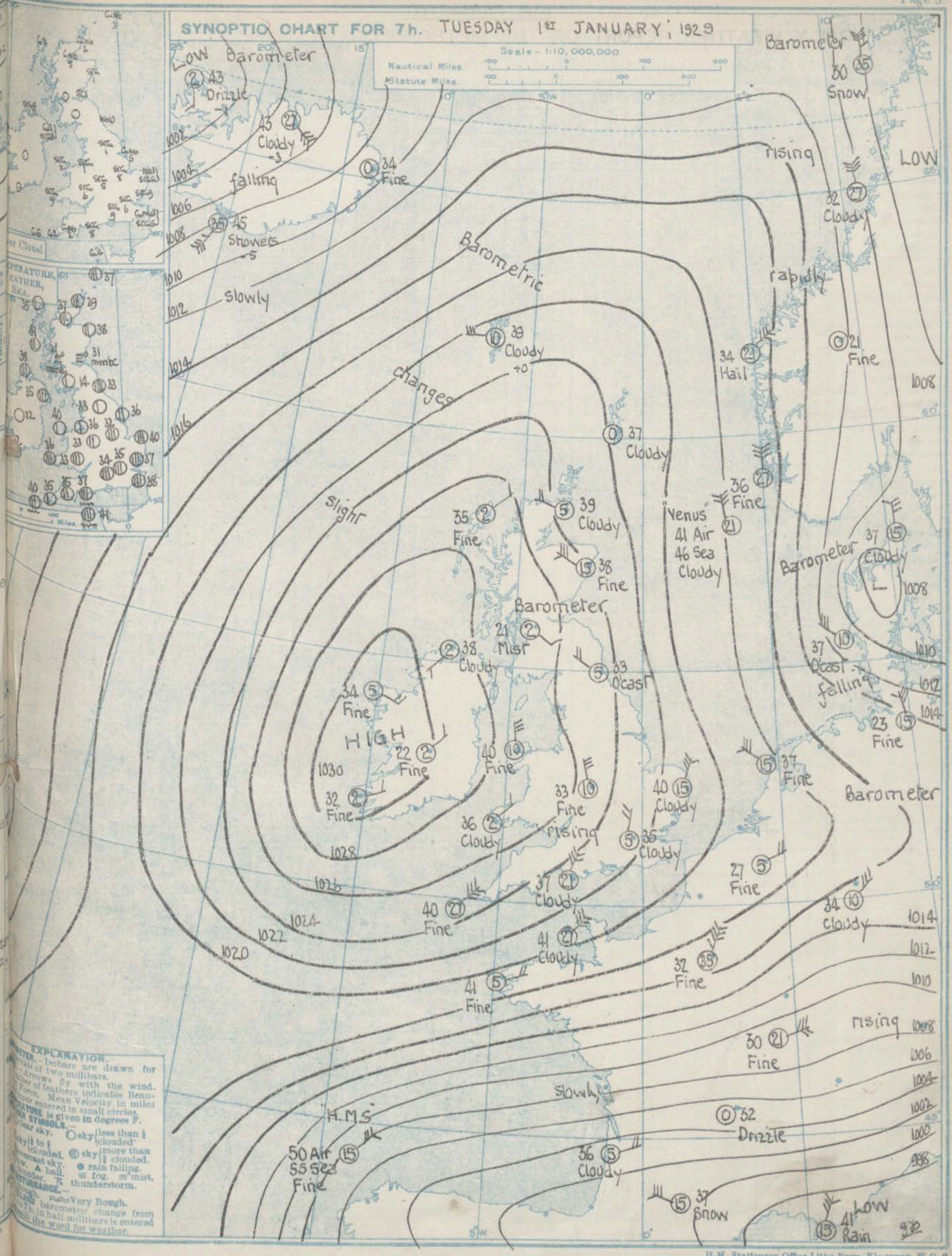
GENERAL INFERENCE.

An anticyclone is almost stationary over Ireland while a shallow depression is moving southeastward across Denmark. A new depression south of Greenland is moving northeast. Weather will be fine and cold in most districts but temperature will rise and cloud increase in western and northern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 1st January, 1929.	Farther Outlook.
1. S.E. England ‡ 2. E. England	Fresh north to northeast wind, moderating; local showers on coast, fair elsewhere; cold, sharp frost inland at night.	Rather unsettled in Scotland little change elsewhere.
3. E. Midlands 4. W. Midlands	Light northerly wind; fine; cold, sharp frost at night.	
5. S.W. England ‡	Fresh northeast wind, moderating; fair; cold sharp ground frost at night.	
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	As 3 - 4.	A North Cone hoisted in districts 1 and 5 at 14h.50m. yesterday and lowered at 9h. today.
13. A. W. Scotland B. N.W. Scotland	Light northerly winds backing to northwest and becoming moderate; fair at first, slight local rain later; moderate temperature.	
14. Mid-Scotland 15. N.E. Scotland	Light northwest wind; fair; moderate temperature.	
16. Orkneys and Shetlands	Light westerly wind, becoming moderate; cloudy, slight rain later; moderate temperature.	
17. N.W. Ireland		
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable wind; fine at first, cloudy later; rather cold with frost inland at night.	

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

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



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 1st January, 1929. No. 1

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

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity %	Visibility ‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	54	1018.6	+2	WNW	1	cjp	39	85	8	1500	CuNb	2	ASt	8
Stornoway	30	1025.6	+1	NW	1	c+	•	•	7	•	•	•	•	9
Wick	81	1011.4	0	WNW	2	bc	39	85	8	2500	StCu	3	ASt	5
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1028.1	+2	S	2	bc+	34	97	8	5700	StCu	3	ACu	7
Renfrew	26	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	190	1024.8	+2	NW	3	bc	32	85	7	1500	St	2	ACu	3
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1023.8	+3	NW	2	c+	35	85	7	1500	St	9	-	9
Blacksod Point	18	1028.8	+4	E	2	c	37	75	8	•	-	0	CuSt	10
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	20	1015.0	+4	NE'E	4	bc+	39	75	7	4000	StCu	6	-	6
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1020.9	+2	N	4	c/pc	38	85	7	4000	CuNb	9	-	9
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	236	1022.2	+3	N	3	c+	34	85	7	2500	StCu	8	-	8
Gorleston	14	1019.2	+4	NE	4	c	38	92	7	1500	Nb	9	-	9
Valentia (Cahirciveen) ‖	30	1026.6	+3	NE	2	b	35	97	8	-	-	0	-	0
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	160	1022.6	+4	NE	4	b	36	85	7	-	-	0	-	0
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	18	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1018.7	+6	NNE	4	c	37	75	6	2500	StCu	8	-	9
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	350	1016.7	+7	NNE	5	c/ps	36	75	7	1500	Nb	10		10
Scilly (St. Mary's)	163	1019.6	+5	NNE	7	bc	4	75	8	4000	Cu	5	-	5
Falmouth (Pendennis)	300	1015.0	+6	NE'E	5	b-	38	85	7	4000	Cu	2	-	2
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1016.9	+4	NNE	6	bc-	37	65	8	4000	StCu	4	-	4
Southampton (Calshot)	10	1018.6	+6	NE'N	4	bc-	37	65	7	4000	StCu	3	-	3
Dungeness	20	1015.7	+7	NE	6	c	40	65	8	2500	Cu	8	ACu	10
Guernsey (Fort George) ‖	205	1015.2	+6	NE	7	c	42	85	6	4000	StCu	8	-	8

Observations at 7h. G.M.T. 1st

Stations	Barom. at M.S.L. mb.	Change in 3 Hours	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity %	Visibility ‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	1020.9	+3	–	0	cjp	37	85	8	1500	CuNb	3	ASt	8
Stornoway	1026.2	0	NE	1	b-	35	92	7	4000	Cu	2	-	2
Wick	1023.4	+2	WNW	2	c	39	92	8	2500	CuNb	2	ACu	8
Tiree	1017.9	+2	N	2	bc	41	92	9	4000	Cu	2	CiCu	3
Nairn	1025.2	•	–	0	c+	37	85	8	1500	CuNb	8	-	8
Aberdeen	1014.1	+2	NW	4	bc	38	85	8	2500	StCu	1	CiSt	7
Malin Head	1029.2	+1	SW	1	c	38	97	7	2500	StCu	9	-	9
Renfrew	1027.5	+2	SE	1	mmb	21	97	4	-	-	0	-	0
Edinburgh (Inchkeith)	1025.5	+1	WNW	2	mmbc	31	85	4	800	St	3	ACu	5
Leuchars	1025.5	+1	W	3	bc⊕	34	75	8	-	-	0	ACu	7
Eskdalemuir	1029.2	+1	–	0	b	14	85	8	-	-	0	Cu	2
Tynemouth	1024.9	+2	NW	2	o	33	65	7	1500	Nb	10	-	10
Blacksod Point	1030.4	+1	SE'E	2	bc	34	85	8	•	-	0	ACu	6
Donaghadee	1027.4	+1	NE	2	c-	35	85	8	4000	StCu	8	-	8
Birr Castle	1020.3	•	NE	1	b-	22	85	7	-	-	0	-	0
Holyhead	1027.7	+1	N	3	b	40	75	8	2500	StCu	2	-	2
Liverpool (Bidston)	1027.1	+1	N'E	3	b	36	85	7	4000	StCu	1	-	1
Chester (Sealand)	1025.9	0	NNW	3	b	33	85	6	4000	StCu	1	-	1
Harrogate	1024.9	+1	W	2	b	33	75	8	4000	StCu	1	-	1
Spurn Head	1022.5	+1	NNW	5	bc-	36	97	6	4000	CuNb	5	ACu	6
Birmingham (Edgbaston)	1016.1	+1	NNW	3	bc	33	75	5	4000	StCu	5	-	5
Cranwell	1024.1	+3	NW	4	c+	32	92	7	4000	StCu	8	-	8
Gorleston	1021.8	0	N'E	4	c-	40	65	7	1500	StCu	8	-	8
Valentia (Cahirciveen) ‖	1030.1	+3	ENE	1	b	32	85	8	4000	StCu	1	-	1
Roches Point	1028.8	+3	N	2	b	32	85	8	-	-	0	-	0
Pembroke (St. Ann's H.)	1026.8	+3	NE	1	c+	36	85	7	2500	StCu	9	-	9
Ross-on-Wye	1025.1	+2	N'W	2	c	33	65	6	4000	StCu	6	ACu	8
Leafield	1024.1	+2	N'W	4	c⊕	32	92	7	4000	StCu	2	ACu	9
Winchester (Worthy Dn.)	1022.5	+4	N'W	3	c	34	75	8	5700	StCu	4	ACu	9
S. Farnborough	1022.4	+3	N'W	2	c+	34	75	8	4000	StCu	9	-	9
London (Kew Obsy.)	1023.4	+4	NNW	2	c	35	85	6	2500	StCu	10	-	10
Croydon	1021.4	+3	N'E	3	c+	35	75	7	2500	StCu	9	-	9
Shoeburyness	1022.0	+3	N	3	c	35	85	7	4500	StCu	8	ACu	10
Clacton-on-Sea	1023.6	+2	NNE	4	c	37	75	7	5700	StCu	8	-	8
Felixstowe	1022.1	+3	N'W	3	c	36	85	7	2500	StCu	3	-	5
Lympne	1020.3	+4	N'W	5	o+	36	75	8	1800	Nb	10	-	10
Scilly (St. Mary's)	1022.5	+2	NNE	6	bc	40	85	7	4000	Cu	5	-	5
Falmouth (Pendennis)	1025.9	+5	NE	4	b	35	92	7	4000	Cu	2	-	2
Plymouth (Cattewater)	1024.5	+7	N	4	bc	35	85	7	2500	CuNb	2	ACu	3
Portland Bill	1022.4	+2	ENE	5	c	37	75	8	2500	StCu	8	CiSt	9
Southampton (Calshot)	1023.4	+5	NNE	3	c	36	75	7	4000	StCu	4	ACu	8
Dungeness	1021.0	+5	NNE	6	c-	38	85	8	2500	StCu	8	-	8
Guernsey (Fort George) ‖	1019.2	+5	NE	6	c	41	85	8	1500	Cu	4	ACu	8

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 30th to 9h. 31st °F.	Temperature. Max. 9h. 30th-17h. 31st °F.	Rainfall.† Night 17h. 30th-9h. 31st mm.	Rainfall.† Day 9h. 31st-17h. 31st mm.	Sunshine. Sunrise to Sunset. 31st hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	bc	32	40	2	-	0.0
Douglas (I. o. M.)	b	b	35	39	-	-	5.7
Llandudno	bc	bc	35	40	Trace	-	0.6
Colwyn Bay	c	c	35	40	-	-	0.0
Rhyl	bc	bc	35	40	-	-	1.7
Wallasey	bbcc	cbc	33	39	Trace	-	3.0
Southport	bbcc	cbcc	*35	39	-	-	4.5
Blackpool	cbc	bbcc	35	39	-	-	4.6
Ilkley	bcrs	c	32	37	9	0.6	1.8
Cleethorpes	oc	c	36	41	2	-	0.9
Skegness	orpho	obprhoo	35	41	0.5	1	0.7
Aberystwyth	zcbc	cz	36	40	1	-	0.7
Bath	c	c	33	40	4	-	0.0
Cheltenham	oc	co	33	39	8	-	0.1
Leamington Spa	cor	co	33	39	10	Trace	0.0
Lowestoft	crc	cphc	37	41	12	0.2	0.0
Harwich & Dovercourt	ocr	oc	32	42	4	2	0.0
Maldon	srs	rc	32	40	9	1	0.0
Southend	or	or	32	39	6	5	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	rc	crc	37	46	6	Trace	0.0
Penzance	cbq	bc	39	45	2	-	3.5
Paignton	rpo	opc	35	42	1	Trace	0.0
Torquay	cqsc	bcb	35	42	1	-	0.0
Jersey	cqrc	rqc	37	42	3	5	0.0
Weymouth	c	c	35	41	1	-	0.0
Bournemouth	o	o	33	40	1	-	0.0
Ventnor	rcrs	orc	35	39	1	-	0.0
Portsmouth (S'thses.)	o	o	34	40	11	-	0.0
Bognor	corr	rorc	34	38	1	2	0.0
Littlehampton	crc	crc	34	39	0.5	2	0.2
Worthing	crs	crsc	34	38	Trace	1	0.4
Brighton	occrr	rcr	35	39	-	3	0.1
Eastbourne	oors	rcos	35	40	-	1	0.0
Hastings‖	cocrs	orsro	34	40	0.5	1	0.1
Folkestone	co	omrhc	33	4	-	1	0.3
Dover	c	cqphi	35	43	1	0.2	0.0
Tunbridge Wells	ocsoi	rsc	34	3	2	9	0.0
Ramsgate	crc	o	34	41	5	0.6	0.0
Margate	chr	c	35	42	5	1	0.0
Deal	o	ohco	34	42	5	0.3	0.0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24.513 Wednesday 2nd January 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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1022.6	0	-	0	bc	39	~~88~~	7	1500	Cu	2	ASt	5	•
Stornoway	1027.7	0	-	0	c	41	92	7	4000	StCu	8	-	8	•
Wick	1026.6	+3	WNW	1	c	42	92	8	1500	CuNb	6	ASt	8	•
Tiree	1029.0	+1	NW	2	bc	44	85	9	4000	CuNb	5	aCu	7	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1026.5	+2	NW	4	bc|pc	40	86	8	1500	Cu	2	CiCu	4	1
Malin Head	1029.7	+1	W	2	cdo	41	97	8	4000	CuNb	8	-	8	•
Renfrew	1028.6	0	WNW	1	ffc	27	92	2	-	-	0	Ci	8	9
Edinburgh (Inchkeith)	1027.2	0	W	2	mmbc	35	85	4	1500	St	2	Ci	7	•
Leuchars	1027.3	+1	NW	3	c	40	76	8	4000	StCu	5	ACu	9	2
Eskdalemuir	1028.8	0	-	0	bc	23	85	7	-	-	0	Ci	7	7
Tynemouth	1025.3	+1	WNW	2	bc-	38	85	7	1500	CuNb	7	-	7	•
Blacksod Point	1030.2	0	SE'E	2	bc	41	75	9	•	Cu	3	-	3	•
Donaghadee	1028.4	+1	NW	3	bc	41	85	8	4000	Cu	6	-	6	•
Kirr Castle	1030.7	•	SW	1	bc+	34	65	7	2500	Cu	2	CiCu	4	•
Holyhead	1027.8	-1	N'E	3	c+	44	76	9	2500	StCu	7	Ci	8	1
Liverpool (Bidston)	1027.7	0	N'E	2	bc	38	85	7	-	-	0	Ci	7	•
Chester (Sealand)	1026.9	-1	N'W	3	bc+	40	76	6	4000	StCu	1	Ci	7	1
Harrogate	1026.0	0	N'W	3	c+	40	75	8	-	-	0	ASt	9	•
Spurn Head	1023.6	0	NW	4	bc-	38	85	6	4000	StCu	4	ACu	5	•
Birmingham (Edgbaston)	1026.6	0	NNW	4	c+	36	65	5	4000	StCu	8	-	8	3
Cranwell	1025.0	0	NW	4	c	36	85	5	1500	St	10	-	10	2
Gorleston	1021.4	0	NNW	4	or	42	97	6	1500	Nb	10	-	10	•
Valentia (Cahirciveen)	1030.7	-1	-	0	b	37	65	8	2500	Cu	1	-	1	3
Roches Point	1030.7	+1	N	2	b	37	85	8	1500	StCu	1	-	1	•
Pembroke (St. Ann's H.)	1027.4	+1	NE'N	1	bc-	40	75	7	1500	Cu	3	CiSt	5	•
Ross-on-Wye	1026.0	0	N'E	2	bc	37	65	6	-	-	0	Ci	3	1
Leafield	1024.5	-1	N'W	4	b	36	75	6	-	-	0	CiSt	1	2
Winchester (Worthy Dn.)	1023.3	-1	N'W	4	bc	38	65	7	4000	StCu	7	-	7	2
S. Farnborough	1023.4	-1	N'W	4	bc-	39	75	6	4000	StCu	4	-	4	2
London (Kew Obsy.)	1023.6	-1	N'E	3	b-	39	85	6	2500	Cu	1	-	1	2
Croydon	1023.2	-1	N'E	3	mmc	39	75	4	2500	St	10	-	10	2
Shoeburyness	1022.5	0	N'W	3	c+	39	92	8	4000	StCu	5	ACu	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1022.4	-1	NW	4	c|r	40	85	7	1500	St	5	ACu	8	2
Lympne	1020.9	-1	NNW	5	c+	38	85	7	4000	StCu	9	-	9	1
Scilly (St. Mary's)	1026.5	+2	N'E	5	c	40	75	7	4000	Cu	8	-	8	•
Falmouth (Pendennis)	1026.1	+1	NE'N	4	bc	39	85	7	4000	Cu	8	-	3	•
Plymouth (Cattewater)	1025.8	0	N	5	b	38	75	7	2500	Cu	1	ACu	2	2
Portland Bill	1023.9	0	NNE	4	bc-	39	65	6	2500	StCu	6	-	6	•
Southampton (Calshot)	1023.2	-2	N	4	bc	39	65	6	2500	StCu	7	-	7	0
Dungeness	1021.3	-1	NNE	5	bc-	41	75	8	2500	Cu	4	ACu	6	•
Guernsey (Fort George)	1022.4	0	NE	6	c	48	65	9	4000	StCu	9	-	9	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	1024.5	+1	-	0	bc|p	41	92	6	1500	CuNb	3	ASt	6	•
Stornoway	1027.2	+1	WNW	1	bc	39	92	7	4000	StCu	7	-	7	0
Wick	1027.0	+2	WNW	2	bc	39	92	8	1500	CuNb	4	-	4	0
Tiree	1030.0	+2	NW	2	cdo	40	97	8	1500	Nb	9	-	9	1
Nairn	1027.4	•	-	0	bc-	34	85	8	2500	StCu	4	-	4	•
Aberdeen	1028.6	+3	WNW	3	b-	37	85	7	2500	StCu	1	-	1	0
Malin Head	1030.3	+1	S	1	bcr	39	97	8	6700	StCu	6	-	6	0
Renfrew	1030.0	+2	-	0	ffb	27	92	3	-	-	0	-	0	•
Edinburgh (Inchkeith)	1028.9	+1	W	2	mmbc	35	85	4	800	St	3	-	3	0
Leuchars	1028.7	+1	W	2	b	37	75	8	4000	StCu	1	-	1	•
Eskdalemuir	1029.6	+1	NNW	3	b-	34	76	8	-	-	0	ACu	1	•
Tynemouth	1027.2	+2	NW	2	bc|r	39	85	7	1500	Cu	5	-	5	4
Blacksod Point	1031.4	+1	ESE	2	(b)c	37	75	8	•	CiSt	(10)	-	(10)	2
Donaghadee	1028.9	+1	NNE	3	bc	43	75	8	4000	Cu	5	-	5	3
Kirr Castle	1031.0	•	N	1	bc-	29	85	6	4000	StCu	4	CiCu	7	•
Holyhead	1028.8	+2	NNE	1	b-	40	92	7	2500	Cu	<1	Ci	1	1
Liverpool (Bidston)	1028.6	+1	WNW	1	b	36	85	8	-	-	0	CiSt	2	•
Chester (Sealand)	1027.7	+1	WNW	2	b-	35	92	6	4000	StCu	1	-	1	•
Harrogate	1027.3	+1	N'W	2	b	37	85	7	-	-	0	ACu	1	•
Spurn Head	1024.3	+1	N'E	4	bc	41	85	7	4000	CuNb	5	-	5	4
Birmingham (Edgbaston)	1026.9	+1	NNE	4	bc	36	75	6	4000	StCu	4	-	4	•
Cranwell	1026.7	+1	NNW	3	b-	34	97	6	2500	StCu	1	-	1	•
Gorleston	1022.1	+1	NE'N	6	bc	41	85	7	2500	Cu	4	-	4	1
Valentia (Cahirciveen)	1031.0	+1	ENE	1	b	31	75	8	4000	Cu	1	ACu	2	1
Roches Point	1031.0	+1	N	2	b	34	92	8	-	-	0	-	0	0
Pembroke (St. Ann's H.)	1027.2	+1	NE	1	bc	39	92	7	2500	Cu	3	CiSt	4	1
Ross-on-Wye	1026.4	+1	N	2	o	37	75	6	2500	St	10	-	10	•
Leafield	1025.0	+1	N'W	3	c+	35	92	6	2500	StCu	8	-	8	•
Winchester (Worthy Dn.)	1024.2	+1	NW'N	3	cdo	37	85	6	2500	StCu	9	-	9	•
S. Farnborough	1023.5	0	N	2	bc|d	37	85	6	2500	StCu	6	-	6	•
London (Kew Obsy.)	1024.1	+1	N	4	bc-	39	85	7	4000	StCu	4	-	4	•
Croydon	1023.0	-1	NNE	4	mmc	39	86	4	2500	StCu	8	-	8	•
Shoeburyness	1022.8	+1	NNW	3	bc	36	97	8	4000	StCu	4	-	4	•
Clacton-on-Sea	1022.4	+2	N	4	bc	38	85	6	4000	St	3	-	3	2
Felixstowe	1022.5	+2	N	4	bc|pr	39	92	7	1500	StCu	5	-	5	3
Lympne	1020.9	0	NNW	6	c	38	92	5	1500	St	10	-	10	•
Scilly (St. Mary's)	1027.0	+1	N'E	5	bc-	41	75	8	4000	StCu	6	-	5	4
Falmouth (Pendennis)	1026.3	+1	NNE	3	bc-	37	92	7	4000	StCu	3	-	3	1
Plymouth (Cattewater)	1027.0	+2	N	1	b-	37	85	7	4000	Cu	1	-	1	0
Portland Bill	1024.7	+1	NNE	3	b-	38	75	6	1500	St	1	-	1	4
Southampton (Calshot)	1024.1	+1	N	4	c+	38	75	6	1500	StCu	9	-	9	0
Dungeness	1026.0	+2	NNE	4	bc-	40	92	8	2500	Cu	6	ACu	7	4
Guernsey (Fort George)	1023.5	+1	NE	5	bc-	42	65	8	2500	StCu	6	-	6	6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (YESTERDAY.)	Humidity. 13h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility §.
Kew	18	cbc	bec	bcwbx	41	35	30	Tr	-	2.6	•	•	5
Croydon	244	cm	cm	cmigca	40	38	31	-	Tr	0.0	•	•	4
Greenwich (Royal Obsy.)	149	c	c	cbx	40	34	27	-	Tr	1.1	77	81	
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	1.1	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	41	35	29	-	-	0.9	77	84	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	1.8	•	•	•
Camden Square	110	c	bbc	•	37	34	-x	-	0.3	•	•	84	•
Kensington Palace	80	bc	bc	•	40	35	-x	-	0.3	•	(At 18h.) 72	80	•
Hampstead Observatory	450	•	•	•	37	30	24	Tr	-	2.8	•	84	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time	Min.	Time
South Kensington	0.6	10hrs 1st	<0.3	5hrs 2nd
Kew Observatory	0.3	9hrs 1st	<0.1	4hrs 2nd

POLE STAR RECORD at Greenwich Obsy.

Exposure from
1st ..... 17 h. 15 m.
to 2nd ..... 7 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 45	6 35	48
δ Ursae Minoris	13 45	5 09	37

CODE FOR STATE OF GROUND.

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

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

1st, 2nd January, 1929

STATIONS.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.7	11.57	15.47
	8.7	11.58	15.49
Greenwich	8.8	12.4	16.0
	8.8	12.5	16.1
Wick	9.5	12.16	15.28
	9.4	12.17	15.30
Valentia	8.51	12.45	16.39
	8.51	12.46	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.
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 u indicates slight; repetition of letters indicates continuity.
R = heavy rain. r0 = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

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

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

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

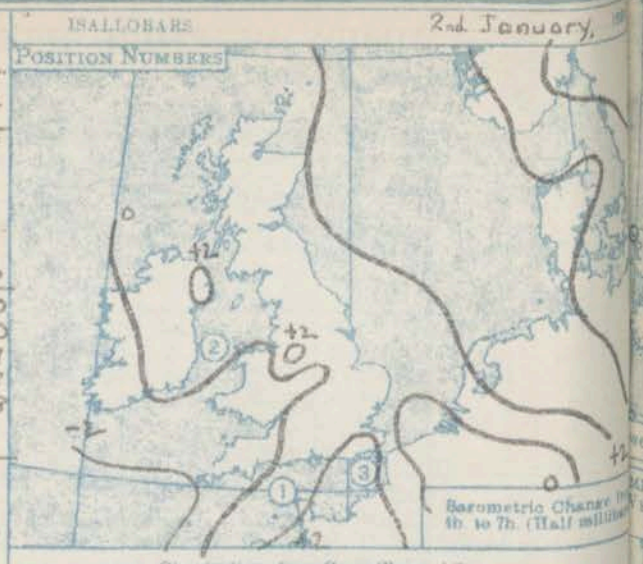
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6½ „
7. Good.	13½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

† 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.-12h. 1st	Weather. 12h.-18h. 1st	Weather. 18h. 1st 2nd to 18h.	Weather. 18h.-7h. 2nd	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	cpr bc	bcpr bcm	bcc ipr c	c i pr	41	39	•	Tr	<8.00	0.2	<21.00	0.0
Stornoway	bbcc	c bc	b-bc	b bcc	41	34	•	-	-	-	-	0.2
Wick	cprc	cprbc	b-bc	b-bc	43	29	•	3	<8.00	-	-	•
Tiree	pr bcc	prcpa	pa o	pa c	44	33	26	0.5	9.00	0.6	<21.00	0.0
Nairn	cbc	bcx	bcx b	bx	39	26	•	-	-	-	-	1.6
Aberdeen	bcbcpr	bebw	bx	bx	40	30	25	Tr	12.30	-	-	0.6
Malin Head	cd	cr	bcccbc	bcc	43	34	•	1	9.00	-	-	0.0
Renfrew	bmcffx	beffx	bff x	o FFx	31	17	14	-	-	-	-	0.0
Edinburgh (Inchkeith)	bcmm	bcmm	bccmm	omacbc	37	30	27	-	-	-	-	0.7
Leuchars	bccxc	cbcb	bx	bx	41	26	18	-	-	-	-	0.8
Eskdalemuir	bcx	bcb	bcbx	bxbcx	35	27	17	-	-	-	-	0.8
Tynemouth	oc	bcp	bcoir	oir	41	37	32	Tr	16.30	5	<21.00	•
Blacksod Point ...	b	b	b	bbc	42	35	•	-	•	-	•	•
Donaghadee	cbc	bc	bx	bbc	43	33	•	-	-	-	-	•
Birr Castle	bbc	bcm	bccx	cx	36	25	13	-	-	-	-	2.6
Holyhead	pbc	cybc	bw	bwm c	44	36	29	-	-	-	-	2.8
Liverpool (Bidston) ...	pbc	bcb	bbcc	cm	39	35	26	-	-	-	-	5.5
Chester (Sealand) ...	bbcm	cbcm	bbcmx	cid	41	32	27	-	-	Tr	6.30	5.6
Harrogate	bbcc	cb	bbcc	bbccodd	40	35	32	-	-	0.1	5.30	1.9
Spurn Head	cbc	bccrbc	cprbccpr	cprc	42	37	•	0.6	14.30	0.4	<21.00	1.1
Birmingham (Edgbaston)	bcb	bcb	bcod	oac	37	34	31	-	-	0.5	12.00	1.9
Cranwell	cbbcc	cbccp	cir	c	37	33	30	Tr	16.30	0.4	<21.00	2.5
Gorleston	cir	orcq	bcpqr	bcq	43	37	35	0.6	11.00	0.1	<21.00	0.0
Valentia (Cahirciveen)	bx	bbcb	bx	bx	42	25	22	0.1	-	-	-	6.3
Roches Point	b	b bx	bx	bx	40	31	•	-	-	-	-	•
Pembroke (St. Ann's H.)	bc	bc	b	b-bc	43	35	•	-	-	-	-	6.5
Ross-on-Wye	bcbbc	bcco	ocbcc	coc	39	35	31	-	-	-	-	5.3
Leafield	bcb	bcbcc	c	bcc	36	34	32	-	-	-	-	5.1
Winchester (Worthy Dn.)	cbc	bcbm	cdmbcb	b	38	34	30	Tr	17.30	Tr	<21.00	3.7
S. Farnborough ...	cbc	bccdcm	cbccipr	cbcm	39	33	29	Tr	17.30	Tr	<21.00	2.8
London (Kew Obsy.) ...	cbcz	bcr	bcw	bx	41	35	30	Tr	16.30	-	-	2.6
Croydon	cmm	cm	cmr	cm	40	35	31	-	-	Tr	<21.00	0.0
Shoeburyness	oc	cbc	bcr	bcx	40	33	31	-	-	0.5	<21.00	1.6
Clacton-on-Sea ...	cbcz	bcbcz	bcx	bc	41	36	32	-	-	-	-	3.3
Felixstowe	cr	ocrpr	bcpr b	bcz	41	35	31	Tr	12.30	Tr	<21.00	1.0
Lympne	oc	cprcm	cmorcc	oprscrc	39	34	31	0.1	13.30	2	<21.00	1.9
Scilly (St. Mary's) ...	bcc	cbc	bcb	bbc	42	39	•	-	-	-	-	2.1
Falmouth (Pendennis)	bbc	bc	bbc	bc	41	36	•	-	-	-	-	6.5
Plymouth (Cattewater)	bcbq	bcb	bbc	bmc	40	36	30	-	-	-	-	4.9
Portland Bill	cz	bcz	bosbc	cbz	41	36	•	-	-	Tr	22.00	•
Southampton (Calshot)	cbcm	bcm	cpre	cbw	40	33	31	-	-	Tr	<21.00	2.2
Dungeness	cbc	c	cpors	cir	41	•	•	-	-	1	<21.00	•
Guernsey	cqv	cbcqv	bccq	cq	42	41	•	-	-	-	-	0.1



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	1st 10h	S[illegible]tin	NNW	5	C+	41	50
1	1st 12h	St Helier	NE	7	C+	42	52
3	2nd 2h	Brighton	ENE	5	b-	41	48

GENERAL INFERENCE.

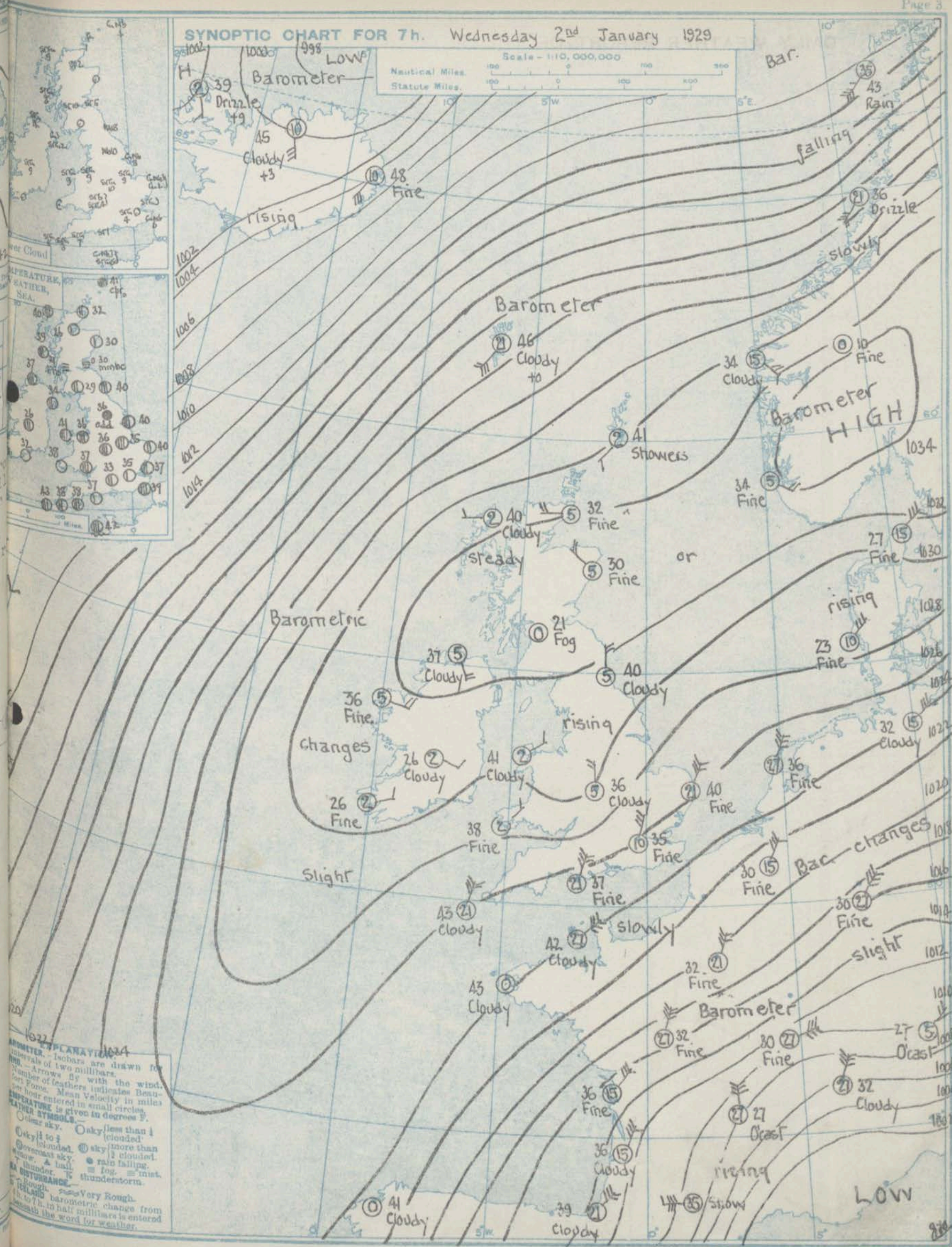
A belt of high pressure fr[illegible] North Ireland to Scandinavia wi[illegible] maintain fair and quiet weather [illegible] most districts but occasional precipitation of wintry type is likely along the eastern seaboa[illegible] of England. Conditions will continue cold and sharp ground frost be widespread at night.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 2nd. January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Fresh northeasterly winds, falling lighter; cloudy, occasional rain or sleet at first, brighter intervals later; cold, sharp ground frost locally at night.	No important change is indicated.
4. W. Midlands 5. S.W. England	Moderate northeasterly winds, falling light; fair; cold, sharp ground frost locally at night.	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13 {A. W. Scotland B. N.W. Scotland} 14. Mid-Scotland 15. N.E Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds; fair; cold, sharp ground frost inland at night and fog locally.	

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

‡ For code see page 1

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



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday, 2nd January, 1928. No. 2

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	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10
Lerwick	64	1025·9	+2	W	1	c/p	41	75	8	1500	CuNb	4	a St	8
Stornoway	20	1030·2	+1	W	1	b-	*	*	8	*	*	*	*	2
Wick	81	1030·2	+2	WNW	2	bc	33	85	8	4000	StCu	2	Ci St	5
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	61	1031·6	+1	WSW	x2 (red)	bc-	39	85	8	5700	StCu	2	ACu	6
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	160	1032·1	+2	W	2	mmo	33	85	4	450	St	10	–	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1030·7	+2	NW	2	o/p	38	92	7	1500	Nb	10	–	10
Blacksod Point	18	1031·5	0	ESE	2	b	38	75	7	*	–	0	–	0
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1030·4	0	NE'N	1	b	40	92	6	2500	StCu	1	Ci	1
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1027·3	+1	NNE	4	c	41	75	8	4000	CuNb	5	a Cu	8
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1028·3	+2	N'E	3	c	35	92	6	2500	StCu	10	–	10
Gorleston	14	1025·7	+3	NE	4	bc	40	85	7	2500	CuNb	5	–	5
Valentia (Cahirciveen) P	30	1030·7	0	NE	2	b	35	92	8	–	–	0	–	0
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1029·7	+1	NE	1	b	36	92	8	–	–	0	–	0
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Wortly Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	38	*	*	*	*	*	*	*
Croydon	244	1025.0	+2	N'E	4	c	37	75	6	2500	StCu	9	–	9
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1022·9	+2	N'E	4	c/pr0	37	75	7	800	Nb	9	–	9
Scilly (St. Mary's)	163	1027·4	0	NE	3	b	40	85	7	4000	Cu	1	–	1
Falmouth (Pendennis)	200	1027·1	0	NNE	3	bc+	37	92	7	4000	StCu	5	–	5
Plymouth (Cattewater)	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1024·7	0	NNE	5	c+	39	75	5	1500	St	10	–	10
Southampton (Calshot)	10	1025·5	+1	N'E	3	c	37	85	7	2500	StCu	9	–	9
Dungeness	20	1023·2	+2	NE	5	crs0	42	75	8	1500	Cu	8	–	8
Guernsey (Fort George) P	293	1023·8	0	N'E	4	c+	43	75	6	4000	StCu	10	–	10

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	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	0-9
Lerwick	1029·6	+2	SW	1	c/pr0	41	85	7	1500	CuNb	4	a St	8	*
Stornoway	1030·1	+1	W	1	c	40	92	7	4000	StCu	9	–	9	0
Wick	1031·6	+1	W	2	bc	32	85	8	2500	Cu	1	Ci St	5	0
Tiree	1031·2	0	S'E	2	c	39	85	5	1500	StCu	8	–	8	1
Nairn	1033·0	*	–	0	b-	26	85	8	1500	St	2	–	2	*
Aberdeen	1033·3	+3	NW	2	b	30	85	7	–	–	0	a Cu	1	0
Malin Head	1032·8	+1	SSE	2	c	37	92	8	5700	StCu	4	a Cu	9	0
Renfrew	1034·1	+1	–	0	FFo	21	97	1	<150	St	10	–	10	*
Edinburgh (Inchkeith)	1032·5	+1	W	2	mmbc	30	97	4	800	St	5	–	5	0
Leuchars	1033·3	+1	–	0	b	27	97	8	–	–	0	–	0	*
Eskdalemuir	1033·9	+1	–	0	bc	29	97	8	–	–	0	a Cu	7	*
Tynemouth	1031·7	+1	N	2	c/p	40	92	6	1500	Nb	8	–	8	2
Blacksod Point	1031·4	-0	SE'E	2	bc+	36 (7 red)	75	8	*	–	0	a Cu	3	2
Donaghadee	1031·7	+1	NNW	2	bc	34	97	8	4000	Cu	5	–	5	2
Birr Castle	1031·6	*	ESE	1	c+	26	92	7	4000	StCu	9	–	9	*
Holyhead	1031·1	0	NE'E	1	c	41	92	7	2500	StCu	9	–	9	0
Liverpool (Bidston)	1031·3	+0	NNE	2	c	36	85	6	4000	StCu	9	–	9	*
Chester (Sealand)	1030·3	+2	N	2	c/r	37	85	5	1500	St	9	–	9	*
Harrogate	1031·6	+1	N	2	odd	36	97	5	2500	Nb	10	–	10	*
Spurn Head	1028·6	+1	NE'N	3	c	40	75	7	4000	CuNb	8	–	8	4
Birmingham (Edgbaston)	1030·3	+0	N	3 (2 red)	c	36	85	5	2500	StCu	10	–	10	*
Cranwell	1029·5	0	N	2	c	35	92	6	2500	StCu	9	–	9	*
Gorleston	1026·4	+1	NE'N	5	bc+	40	85	7	2500	CuNb	5	–	5	4
Valentia (Cahirciveen) P	1031·0	-1	ENE	1	b	26	92	8	–	–	0	–	0	2
Roches Point	1030·3	0	N	2	b	32	92	8	–	–	0	–	0	0
Pembroke (St. Ann's H.)	1029·3	0	NE	1	b	38	85	8	–	–	0	–	0	0
Ross-on-Wye	1028·9	0	NNE	3	c	37	85	6	2500	St	10	–	10	*
Leafield	1027·9	+1	N'E	4	c+	35	92	6	4000	StCu	9	–	9	*
Winchester (Wortly Dn.)	1026·6	+1	N'W	4	b	34	85	7	4000	StCu	1	–	1	*
S. Farnborough	1026·7	+2	N	2	bc	33	92	6	4000	StCu	4	a Cu	5	*
London (Kew Obsy.)	1027·3	+1	N'E	3	b	35	85	5	–	–	0	a Cu	2	*
Croydon	1026·4	+2	N'E	3	c-	35	85	6	4000	StCu	8	–	8	*
Shoeburyness	1025·9	+1	N'W	3	bc	34	92	7	4000	Cu	4	–	4	*
Clacton-on-Sea	1025·7	0	NNE	4	bc	37	75	7	5700	Cu	5	–	5	2
Felixstowe	1025·9	0	N'W	3	bc	35	85	6	5700	StCu	3	–	3	1
Lympne	1024·5	+1	NNE	3	cr0r0	35	92	7	2500	Nb	8	–	8	*
Scilly (St. Mary's)	1026·6	-2	NNE	5	c+	43	75	8	4000	StCu	8	–	8	5
Falmouth (Pendennis)	1027·0	0	NE	3	bc-	38	85	7	4000	StCu	3	–	3	1
Plymouth (Cattewater)	1027·5	0	N	4	c	38	92	6	5700	StCu	7	a Cu	9	0
Portland Bill	1025·3	0	NNE	5	b	37	85	6	1500	St	1	–	1	4
Southampton (Calshot)	1026·4	+2	N	4	b	35	85	7	4000	StCu	1	–	1	0
Dungeness	1024·1	+1	NE	5	o/s	39	85	8	2500	CuNb	6	a Cu	9	5
Guernsey (Fort George) P	1024·3	+2	NE	6	c	42	75	8	1500	StCu	8	–	8	6

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

Stations (1)	Weather Fore-noon (2)	Weather After-noon (3)	Temperature Min. 9h. 31st to 9h. 1st (4) °F	Temperature Max. 9h.-17h. 1st (5) °F	Rainfall Night 17h.-9h. 31st-1st (6) mm.	Rainfall Day 9h.-17h. 1st (7) mm.	Sunshine Sunrise to Sunset 1st (8) hr.
Berwick-on-Tweed	c	c	30	42	–	–	0·0
Douglas (I. o. M.)	bc	bc	30	42	–	–	5·2
Llandudno	b	bcb	36	42	–	–	5·1
Colwyn Bay	b	b bcb	33	42	–	–	5·7
Rhyl	b	b	39	42	–	–	3·9
Wallasey	b	b bcb	31	40	–	–	5·1
Southport	bbc	b	*29	38	–	–	4·5
Blackpool	cbc	bbc	28	38	–	–	4·3
Ilkley	bcc	bc	30	39	0·5	–	0·7
Cleethorpes	op	c	35	41	0·2	1	0·6
Skegness	bcbbco	opro	34	40	0·4	0·4	1·8
Aberystwyth	xzbbc	b'bc	28	41	–	–	6·9
Bath	bccb	bbcc	34	39	–	–	3·9
Cheltenham‡	bc	bcco	32	38	–	–	4·1
Leamington Spa	bc	cbm	33	39	1	–	2·9
Lowestoft	cbcpr	cprcr	36	42	0·1	0·3	0·7
Harwich & Dovercourt	bcrs0	bcrs0	35	41	Trace	Trace	1·5
Maldon	cbc	bco	34	40	–	–	1·5
Southend	oc	cbc	33	42	7	–	1·7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xbcb	b	34	42	–	–	6·6
Penzance	cb	b	35	42	–	–	3·6
Paignton	bcb	b	35	41	–	–	5·7
Torquay	bcm	bcbbz	36	40	–	–	6·3
Jersey	rgbc	bc	36	43	9	–	1·5
Weymouth	b	b	34	(40)	0·4	–	5·7
Bournemouth	cb	bccm	32	40	–	–	2·6
Ventnor	b	bz	34	40	–	–	4·1
Portsmouth (S'thsea)	oc	cb	35	42	–	–	1·7
Bognor	cbcc	bccbc	34	40	1	–	1·6
Littlehampton	bc	bcb	33	40	1	–	2·4
Worthing	c	c	33	40	1	–	0·3
Brighton	bc	bcdc	35	41	0·2	(Trace)	0·6
Eastbourne‖	cbc	bccop0c	34	41	0·2	Trace	2·9
Hastings‖	cbcc	cbcco	35	41	0·6	–	2·6
Folkestone	cpbc	bcrsm	35	41	1	Trace	1·5
Dover	cbc	cpc	36	42	1	0·1	1·3
Tunbridge Wells	oco	cbc	33	38	3	–	1·4
Ramsgate	cbc	bcc	37	42	0·3	–	1·0
Margate	bcc	c	37	45	1	–	0·9
Deal	op0o	o	36	42	1	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. P The observations at 1h. G.M.T. and, at Guernsey, the sunshine readings are from an auxiliary station. ‡ For code see page 1. †‡ See footnote page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,514 THURSDAY. 3rd. January, 1929. Page 1.

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

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1031.3	+1	SW	2	bc	43	75	8	2500	StCu	4	ACu	6	•
Stornoway	1032.1	+1	SW	1	cdd	41	86	7	4000	StCu	10	-	10	•
Wick	1033.9	+1	W	1	bc	38	85	8	4000	Cu	2	Ci	6	•
Tiree	1032.9	0	S'E	4	bc	41	86	9	4000	Cu	6	-	6	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1034.7	0	W	1	b	35	85	5	2500	StCu	1	Ci	2	3
Malin Head	1033.7	+1	SE	2	bc	41	85	9	5700	StCu	2	ACu	3	•
Renfrew	1035.9	0	-	0	FFo	21	97	1	<150	St	10	-	10	9
Edinburgh (Inchkeith)	1034.2	0	W	1	c	32	92	5	800	Cu	8	-	8	•
Leuchars	1034.9	-1	WNW	2	bc+	34	85	6	4000	StCu	2	Ci	3	4
Eskdalemuir	1034.6	0	NE	2	c	36	85	8	1500	St	9	-	9	1
Tynemouth	1033.2	+1	ENE	2	cjp	42	75	8	1500	Nb	8	-	8	•
Blacksod Point	1032.0	0	ESE	3	b	39	75	8	*	Cu	1	-	1	•
Donaghadee	1032.9	+1	E	2	bc-	43	85	8	4000	Cu	2	CiCu	4	•
Birr Castle	1032.4	•	S	1	c	35	65	6	4000	StCu	6	ACu	8	-
Holyhead	1032.1	-1	NE'E	4	bc-	42	85	7	2500	~~Nb~~ StCu	3	CiCu	3	1
Liverpool (Bidston)	1032.2	+1	NE'N	3	c	39	85	5	1500	St	2	ACu	8	•
Chester (Sealand)	1031.6	0	N'W	1	fc+	39	92	3	1500	St	9	-	9	1
Harrogate	1032.3	0	NE	3	b	39	85	7	4000	Cu	1	ASt	2	•
Spurn Head	1030.7	0	NE	4	bc	42	65	8	4000	CuNb	3	ACu	5	•
Birmingham (Edgbaston)	1030.6	0	NE	4	mmbc	39	75	4	2500	StCu	6	-	6	2
Cranwell	1031.0	0	NE'E	4	bc	39	75	8	2500	Cu	5	-	5	1
Gorleston	1028.8	+1	E'N	7	c	39	75	7	1500	StCu	9	-	9	•
Valentia (Cahirciveen)	1030.5	-2	E'S	3	b	43	65	9	-	-	0	-	0	3
Roches Point	1031.6	0	NE	2	c	40	92	8	4000	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1030.5	-1	NE	2	c+	41	85	8	2500	StCu	5	ACu	8	•
Ross-on-Wye	1029.2	0	NE	3	bc+	39	75	5	4000	Cu	7	-	7	1
Leafield	1029.4	0	NNE	4	bc	36	85	8	4000	Cu	4	-	4	2
Winchester (Worthy Dn.)	1027.0	-1	N	4	c	39	75	8	1500	StCu	9	-	9	2
S. Farnborough	1027.1	-1	NE'N	4	b	41	65	7	1500	Cu	2	-	2	2
London (Kew Obsy.)	1027.4	0	NE	3	bc+	40	65	7	2500	Cu	6	ACu	7	1
Croydon	1027.0	-1	NE'N	4	bc/f	39	75	5	2500	Cu	5	-	5	2
Shoeburyness	1027.1	+2	NE	5	c+	38	76	8	1500	StCu	6	ACu	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1027.6	0	NNE	5	c/rs	39	65	7	4000	Nb	8	-	8	2
Lympne	1025.4	0	NE'N	6	c/prs	37	65	8	2500	StCu	9	-	9	2
Scilly (St. Mary's)	1028.2	+1	NE	6	c	42	75	8	4000	Cu	8	-	8	•
Falmouth (Pendennis)	1029.0	+2	NE'N	2	bc-	40	85	7	4000	Cu	4	-	4	•
Plymouth (Cattewater)	1028.0	-1	NNE	5	pc	42	75	8	2500	StCu	4	-	4	2
Portland Bill	1026.3	0	NNE	6	bc	42	65	8	2500	Cu	3	-	3	•
Southampton (Calshot)	1026.8	-2	NE'E	4	bc+	41	75	7	2500	CuNb	7	-	7	0
Dungeness	1024.5	0	NE	6	c-	39	65	8	2500	CuNb	8	-	8	•
Guernsey (Fort George)	1025.0	-1	NE	5	c	42	65	8	1500	Cu	8	-	8	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1033.5	0	SW	1	bc	40	85	8	1500	StCu	4	ASt	7	•
Stornoway	1033.1	+2	SW	1	cdd	40	92	6	4000	StCu	9	-	9	0
Wick	1035.0	+2	W	2	b	31	85	8	4000	Cu	2	-	2	0
Tiree	1033.7	+1	S'E	4	bc	41	92	9	4000	Cu	7	-	7	3
Nairn	1035.3	•	-	0	b-	25	85	8	2500	Cu	2	-	2	•
Aberdeen	1036.4	+3	-	0	mmb	31	92	4	1500	St	1	-	1	0
Malin Head	1034.1	+1	SSE	3	b	37	92	9	5700	StCu	1	-	1	0
Renfrew	1036.2	+2	-	0	ffo	26	97	2	<150	St	10	-	10	•
Edinburgh (Inchkeith)	1036.0	+1	W	2	mmbc	34	92	4	800	St	3	-	3	0
Leuchars	1036.0	+2	WNW	1	bc/r	33	92	6	2500	StCu	4	-	4	•
Eskdalemuir	1035.9	+2	NE'E	2	bc-	32	92	6	1500	St	5	-	5	•
Tynemouth	1034.5	+1	E	2	bc	40	65	7	1500	Cu	6	-	6	2
Blacksod Point	1031.9	0	ESE	3	~~b~~ c	39	76	8	-	-	(0)	CiCu	~~(0)~~ 10	2
Donaghadee	1033.9	+1	E	3	bc-	43	75	8	4000	StCu	4	-	4	3
Birr Castle	1032.3	•	SE	1	c	35	97	6	4000	StCu	9	-	9	•
Holyhead	1032.8	+2	NE'E	3	bc	40	85	6	4000	StCu	3	-	3	2
Liverpool (Bidston)	1032.9	+1	ENE	3	b	38	75	5	-	-	0	-	0	•
Chester (Sealand)	1031.8	+1	NE'N	1	mmb	34	85	4	-	-	0	-	0	•
Harrogate	(1033.4)	+2	ENE	1	b	33	92	7	-	-	0	ACu	1	•
Spurn Head	1031.5	0	NE'E	5	bc-	38	65	8	4000	CuNb	4	-	4	5
Birmingham (Edgbaston)	1031.6	+1	NE	3	c+	36	75	5	2500	StCu	10	-	10	•
Cranwell	1031.7	+1	ENE	3	bc-	35	75	7	2500	StCu	5	-	5	•
Gorleston	1029.5	+2	E'N	6	c	37	65	7	1500	StCu	3	ASt	10	5
Valentia (Cahirciveen)	1030.6	0	ESE	3	bc	41	76	8	4000	StCu	3	-	3	2
Roches Point	1031.5	0	ENE	2	c	41	75	8	2500	StCu	9	-	9	0
Pembroke (St. Ann's H.)	1030.5	+1	NE	2	bc-	38	85	7	2600	StCu	2	CiSt	4	0
Ross-on-Wye	1029.9	0	NE	3	bc+	36	65	6	4000	StCu	7	-	7	•
Leafield	1029.8	+1	NE	4	c+	34	75	8	4000	StCu	9	-	9	•
Winchester (Worthy Dn.)	1028.1	+1	NNE	3	bc-	35	65	7	2500	StCu	3	-	3	•
S. Farnborough	1027.9	+1	NE'N	4	bc-	35	65	7	4000	StCu	3	-	3	•
London (Kew Obsy.)	1028.5	+1	NE	4	bc	37	55	7	4000	StCu	5	-	5	•
Croydon	1027.6	0	NE	4	c+	36	66	5	2600	StCu	9	-	9	•
Shoeburyness	1028.2	0	NE	6	c	36	86	8	4000	Cu	7	ACu	8	•
Clacton-on-Sea	1028.3	0	N	6	bc	37	65	7	4000	Cu	6	-	6	5
Felixstowe	1028.6	0	NNE	5	c	37	65	7	4000	StCu	8	-	8	6
Lympne	1026.4	+1	NE	6	c+	34	65	8	2600	StCu	10	-	10	•
Scilly (St. Mary's)	1028.0	0	NE	4	bc	40	85	7	4000	Cu	7	-	7	5
Falmouth (Pendennis)	1027.9	+1	NE	4	bc-	39	85	7	4000	Cu	3	-	3	1
Plymouth (Cattewater)	1028.1	+1	NE	4	b	38	85	7	2500	Cu	1	-	1	0
Portland Bill	1026.5	0	NE	5	b-	38	65	8	2500	Cu	1	-	1	6
Southampton (Calshot)	1027.6	+2	ENE	4	b-	37	65	6	4000	StCu	2	-	2	3
Dungeness	1025.1	0	NE	6	c+	38	65	8	2500	StCu	10	-	10	5
Guernsey (Fort George)	1024.7	0	ENE	6	c/prs	41	65	7	1500	CuNb	9	-	9	6

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

Station	Height above M.S.L. in feet	Weather Morning (24 hours ended 9a)	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	b̄bcc	cy	bcyc	40	35	33	-	-	2·8	•	•	5
Croydon	244	bcffm	bccz₀	cj₀	39	34	34	-	-	0·8	•	•	5
Greenwich (Royal Obsy.)	142	bcb	bcs₀	c/r₀c	40	35	31	Tr	Tr	2·5	61	71	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	2·0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	41	35	31	-	-	1·8	65	82	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	2·7	•	•	•
Camden Square	110	xbc	c	•	37	36	-	-	-	•	•	93	•
Kensington Palace	80	bcx	c₀	•	40	35	32	-	-	•	(At 18h) 60	80	•
Hampstead Observatory	450	•	•	•	36	30	28	-	Tr	4·1	•	98	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·6	11hrs 2nd	⟨0·3	4hrs 3rd

Kew Observatory Max.	Time.	Min.	Time.
0·2	10hrs 2nd	⟨0·1	2hrs 3rd

POLE STAR RECORD at Greenwich Obsy.

Exposure from 2nd 17 h. 15 m. to 3rd 7 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 45	NIL	NIL
δ Ursae Minoris	13 45	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.
2nd – 4th JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·7	11·59	15·49
"	8·7	11·58	15·50
Greenwich	8·8	12·5	16·1
	8·8	12·5	16·2
Wick	9·4	12·17	15·30
	9·4	12·17	15·31
Valentia	8·51	12·46	16·40
	8·51	12·46	16·41

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. l intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. 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, 1=mod. swell, 2=heavy swell } Calm or slight sea.
3=no swell, 4=mod. swell, 5=heavy swell } Moderate sea.
6=rather rough sea.
7=rough sea.
8=very rough sea.
9=mountainous sea.

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

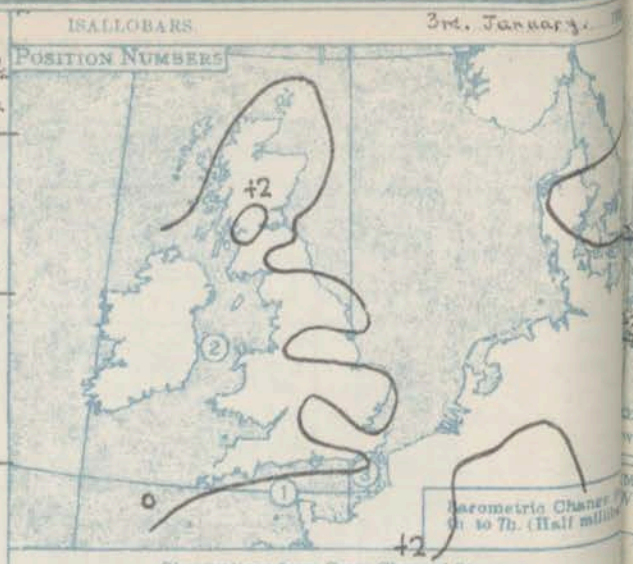
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 2nd.	Weather. 18h.-18h. 2nd	Weather. 18h. 2nd. to 1h. 3rd	Weather. 1h.-7h. 3rd.	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 2nd. Hours.
Lerwick	cprbc	bc	bc	bc	44	36	•	Tr.	<8.00	–	–	2.4
Stornoway	cddd	ocdd	c	c	42	38	•	0.2	11.00	–	–	0.0
Wick	b-bc	b-bc	b-bc	b-bc	38	30	•	–	–	–	–	•
Tiree	pdc	pdc	coc	o	41	38	34	0.1	<8.00	–	–	0.3
Nairn	bx	bx	bx	bx	29	21	•	–	–	–	–	5.7
Aberdeen	bm3x	bcb3mw	cpc3cmx	c	35	28	22	–	–	0.1	<21.00	3.3
Malin Head	cbcV	bcbV	bvbc	bcc	42	35	•	–	–	–	–	3.1
Renfrew	FFX	FFX	FFX	FFX	26	22	16	–	–	–	–	0.0
Edinburgh (Inchkeith)	bcmmcm	cmmbcmm	bcmm	bcmm	34	33	25	–	–	–	–	1.4
Leuchars	bxbcm.	bcm.cirm	bcbbcxm	bcxcxm.	36	30	25	Tr.	16.30	–	–	3.6
Eskdalemuir	bcc	cbcom.	cbcps.m.	c	37	27	23	–	–	T2	22.00	2.1
Tynemouth	cir.	cbc	bc	bc	43	38	33	0.2	<8.00	–	–	•
Blacksod Point ...	b	b	b	b	40	37	•	–	•	–	•	•
Donaghadee	bc	bc	bcc	cbbc	43	39	•	–	–	–	–	•
Birr Castle	cm.	cm.	cbcx	bcx	38	30	16	–	–	–	–	4.0
Holyhead	cbbcc	bccbc	bcb	b3.	43	35	31	–	–	–	–	3.0
Liverpool (Bidston) ...	cm.	cbm.	bm.x	bm.xc	39	32	25	–	–	–	–	0.3
Chester (Sealand) ...	cm.m	cfbcm	bmxbc	bbcm.x	40	29	19	–	–	–	–	0.1
Harrogate	od.cb	bbcp.b	bbc	bcc	39	30	27	Tr.	<8.00	–	–	1.9
Spurn Head	bc.	bcc	bcc	c	42	36	•	–	–	–	–	4.3
Birmingham (Edgbaston)	cpr.bc	bcc	c	cb	39	31	28	Tr.	9.00	–	–	0.5
Cranwell	bccp.b	bcc	co	c	41	31	29	0.1	9.00	Tr.	–	4.6
Gorleston	bccq	cq	cq	cph.q	41	37	36	–	–	~~Tr.~~	02.30	2.7
Valentia (Cahirciveen)	bxv	bvbc	bc	bcc	44	36	32	0.1	–	–	<27.00 ~~27.00~~	6.0
Roches Point	bbcc	c	cp.c	c	44	39	•	–	–	T2		•
Pembroke (St. Ann's H.)	bbc	cbc	bcm.	bcm. 42	~~36~~	33	•	–	–	–	–	3.1
Ross-on-Wye	cbbc3	cbc	coc	cbcc	40	34	31	–	–	–	–	1.1
Leafield	cprbc	prbcc	c	c	39	30	28	Tr.	11.00	–	–	2.6
Winchester (Worthy Dn.)	bxbbcc	cbc	bcc	cbcc	41	34	30	–	–	–	–	4.8
S. Farnborough ...	bcxcjob	cjpbc	b-c	c	41	34	31	–	–	–	–	3.3
London (Kew Obsy.) ...	bxbcc	cy	bcy	c	40	35	33	–	–	–	–	2.8
Croydon	bcffm	bcc3.	c3.	c3.	39	34	34	–	–	–	–	0.8
Shoeburyness	bcc	pshcq	co	o	40	35	34	0.1	12.30	T2	6.30	1.1
Clacton-on-Sea ...	bc	bc	bcc	c	40	36	35	–	–	–	–	0.8
Felixstowe	cbcrs	bcc	crs.	crs.	41	36	34	Tr.	<8.00	T2	<21.00	2.4
Lympne	cprsm	cbcc	cmprhoms	ocbcc	37	33	30	1	<8.00	T2	<21.00	1.9
Scilly (St. Mary's) ...	c	cbc	bc	bc	44	35	•	–	–	–	–	1.9
Falmouth (Pendennis)	bccbc	bccbc	bc	bcc	41	34	•	–	–	–	–	2.7
Plymouth (Cattewater)	cm.b	bcb	bbc	bcc	42	35	32	–	–	–	–	4.4
Portland Bill	bbc	bccbc	bco	c	42	35	•	–	–	–	–	•
Southampton (Calshot)	bm.bc	bcprm.b	bbcc	cbc	41	35	31	Tr.	15.30	–	–	5.0
Dungeness	cprs	c	c	cq	40	34	•	1	9.00	–	–	•
Guernsey	cprhq	cq	cq	cprsqv	43	38	•	Tr.	9.00	0.1	2.30	1.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	10h 2nd	SCOTIA	ENE	4	c	45	49
3	2h 3rd	DIEPPE	ENE	7	c	48	47

GENERAL INFERENCE.

A large anticyclone extending from Scotland to Scandinavia will maintain cold, fair weather with sharp ground frost at night.

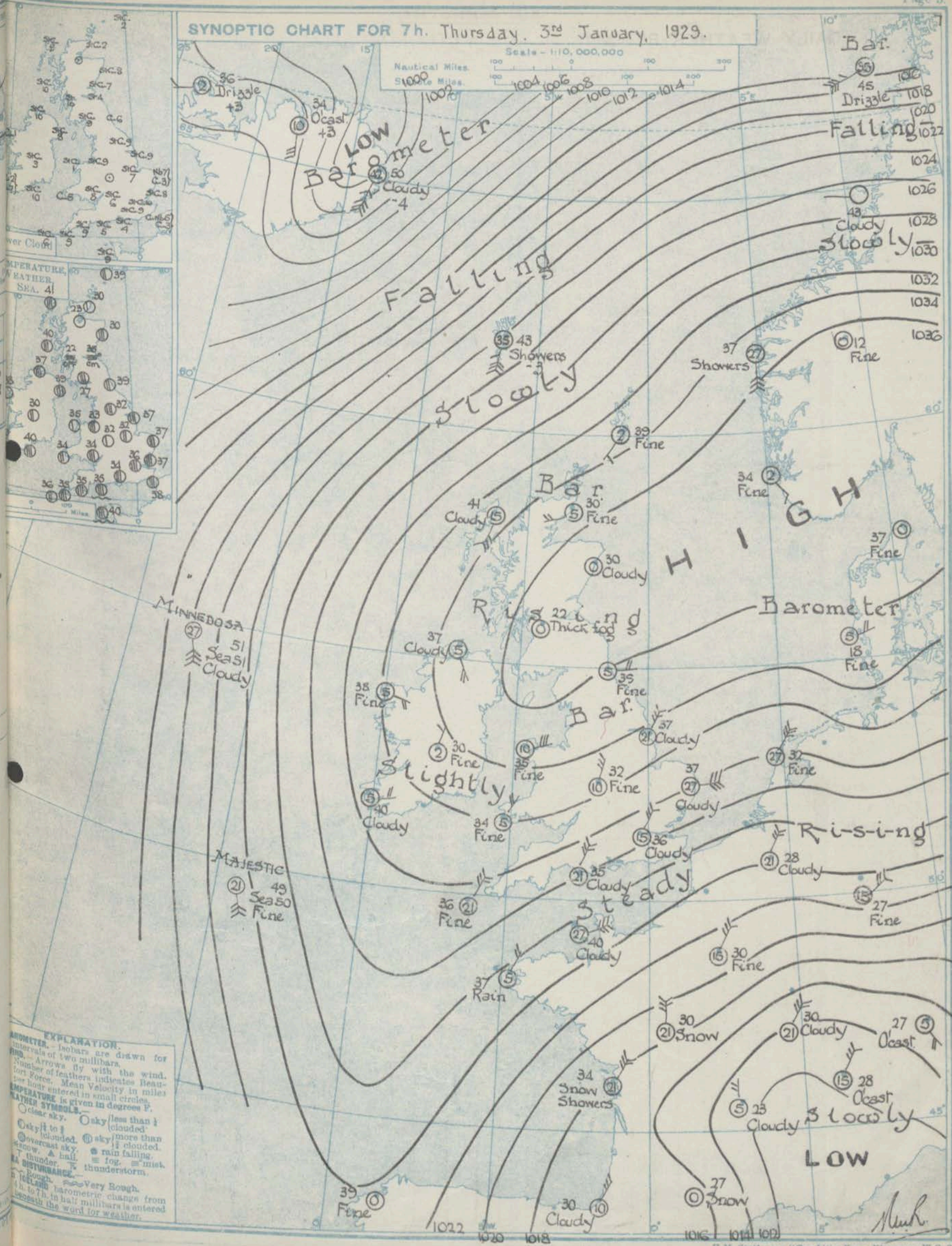
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 3rd January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate easterly or northeasterly winds, fresh at times, moderating; fair; cold; sharp ground frost locally at night.	No material change yet indicated.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Light variable winds; fair; cold; sharp ground frost inland at night with some mist or fog in places.	
12. S.W. Scotland & Isle of Man 13. (A. W. Scotland (B. N.W. Scotland	Moderate southerly winds; fair; cold.	
14. Mid-Scotland	As 7 - 11.	
15. N.E. Scotland 16. Orkneys and Shetlands	Light to moderate southerly or southwesterly winds; fair; cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 - 11.	

WSHP.

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

§ For code see page 1

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



EXPLANATION.

BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean Velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
clear sky. sky less than ½ clouded. sky ½ to ½ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—
Rough. Very Rough.
In **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:

BRITISH SECTION Thursday, 3rd January 1929. No. 3

Stations	Height above M.S.L. in feet	1h. G.M.T. 3rd: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	7h. G.M.T. 3rd: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	84	1033·8	-1	SW	1	bc	39	85	8	1500	Cu	3	–	3	1033·7	0	SW	1	bc	39	85	8	1500	StCu	2	A St	4
Stornoway	30	1033·4	-1	SW	4	c	*	*	6	*	*	*	*	10	1033·0	0	SSW	4	c	41	85	7	2500	StCu	9	–	9
Wick	81	1034·3	-1	WSW	2	b	35	85	8	–	–	0	–	0	1035·5	+1	WSW	2	b	30	92	8	2500	StCu	2	–	2
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·6	0	S	4	c+	40	75	8	1500	StCu	10	–	10
Nairn	83	*	*	*	*	*	*	*	*	*	*	*	*	*	1035·3	*	–	0	b-	23	85	8	–	–	0	–	0
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1036·9	+1	–	0	c	30	97	5	4000	StCu	8	–	8
Malin Head	81	1034·3	-1	SSE	3	bc+	36	92	8	5700	StCu	3	–	3	1034·7	+1	SSE	2	c	37	92	7	5700	StCu	10	–	10
Renfrew	86	*	*	*	*	*	*	*	*	*	*	*	*	*	1037·1	+2	–	0	FFo	22	97	0	<150	St	10	–	10
Edinburgh (Inchkeith)	160	1035·2	-1	W	2	mmbc	35	97	4	800	St	4	–	4	1036·0	+1	E	1	mmc	35	97	4	800	St	4	A St	8
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1037·1	0	–	0	c	32	97	6	5700	StCu	7	A Cu	9
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1037·2	0	NNE	1	c	27	85	7	4000	StCu	9	–	9
Tynemouth	87	1034·9	0	E	2	bc	39	65	8	1500	Cu	4	–	4	1035·3	0	E	2	bc	39	55	8	1500	Cu	6	–	6
Blacksod Point	18	1031·6	-0	–	0	b	39	75	7	*	–	0	–	0	1032·5	+1	ESE	2	b	38	85	7	*	Cu	1	–	1
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·5	+1	ESE	2	c-	39	65	8	4000	StCu	8	–	8
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1033·2	*	NNE	1	bc-	30	92	7	2500	StCu	3	A St	7
Holyhead	26	1035·0	-1	NE'E	3	b	37	85	7	4000	StCu	2	–	2	1034·1	+1	E'N	3	b	35	75	6	5700	StCu	1	–	1
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·5	+0	NE	2	c	33	75	6	4000	StCu	9	–	9
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1033·5	+1	NE'E	2	bc+	32	75	6	4000	StCu	7	–	7
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1035·2	0	NE	1	c	32	85	7	4000	StCu	9	–	9
Spurn Head	29	1032·0	0	NE'E	5	c	38	65	8	5700	StCu	9	–	9	1031·9	0	NE'E	5	c	37	65	8	5700	StCu	9	–	9
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1032·4	0	NNE	3	b	32	75	6	–	–	0	A Cu	1
Cranwell	236	1032·4	+1	NE'E	3	o+	34	75	7	2500	St	10	–	10	1032·5	0	NE	2	bc-	32	75	7	2500	StCu	7	–	7
Gorleston	14	1030·1	-0	E	6	c	38	85	7	4000	StCu	10	–	10	1030·8	0	E	6	c	37	65	7	2500	Nb	10	–	10
Valentia (Cahirciveen) P	30	1030·1	-1	E	2	br	37	97	9	*	St	2	–	2	1030·8	+1	E	2	c	40	65	8	2500	Cu	9	–	9
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1031·3	+1	E	3	c	40	65	8	2500	StCu	10	–	10
Pembroke (St. Ann's H.)	150	1030·3	0	NE	2	bc	35	85	7	4000	Cu	4	–	4	1031·0	+1	NE	2	bc+	34	85	6	4000	Cu	5	A Cu	6
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·8	0	NE	3	c	34	75	7	4000	StCu	8	–	8
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·4	0	NE'N	3	bc-	30	85	8	4000	StCu	6	–	6
Winchester (Worthy Dn.)	373	*	*	*	*	*	*	*	*	*	*	*	*	*	1027·6	-1	N	5	c-	34	75	8	5700	StCu	2	A Cu	8
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·2	0	NE'N	4	c	34	75	8	4000	StCu	9	–	9
London (Kew Obsy.)	18	*	*	*	*	*	36	*	*	*	*	*	*	*	1029·3	0	NE'N	4	c	36	65	6	2500	StCu	10	–	10
Croydon	344	1028·1	0	NE	4	c	34	75	6	2500	StCu	10	–	10	1028·1	0	NE	4	c	35	65	6	2500	StCu	9	–	9
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·6	0	NE'E	5	c/ph	37	85	7	1500	Nb	7	A St	10
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·5	0	NE	5	c	37	65	7	4000	StCu	8	–	8
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·4	+1	NNE	5	crs₀	37	65	7	2500	StCu	9	–	9
Lympne	350	1026·6	+0	NE'N	7	o	35	65	8	1500	Nb	10	–	10	1026·2	+0	NNE	6	c+	34	65	8	1500	Cu	8	–	8
Scilly (St. Mary's)	163	1028·1	0	NE	6	bc	37	92	8	4000	Cu	3	–	3	1028·2	0	NE'N	5	bc	36	85	7	4000	StCu	6	–	6
Falmouth (Pendennis)	200	1028·4	0	NE	4	bc	34	85	8	4000	StCu	4	–	4	1027·9	0	NE	4	c+	35	85	7	4000	StCu	9	–	9
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1028·6	0	NE	4	c	35	92	7	4000	StCu	9	–	9
Portland Bill	23	1026·8	0	NE	5	c-	37	55	8	2500	StCu	10	–	10	1026·6	0	NNE	5	c-	35	75	8	2500	StCu	5	A Cu	8
Southampton (Calshot)	10	1027·8	-0	ENE	4	c	36	75	7	2500	StCu	10	–	10	1027·6	0	ENE	5	bc	35	75	7	2500	StCu	4	–	4
Dungeness	20	1026·2	+1	ENE	6	c	38	75	8	2500	StCu	9	–	9	1025·4	0	NE	6	c	38	75	8	2500	Cu Nb	8	–	8
Guernsey (Fort George) P	295	1025·0	0	N'E	6	c+	40	75	8	4000	StCu	10	–	10	1024·9	0	ENE	6	c	40	65	9	4000	StCu	9	–	9

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 1st to 9h. 2nd °F (4)	Temperature Max. 9h.-17h. 2nd °F (5)	Rainfall Night 17h.-9h. 1st-2nd mm. (6)	Rainfall Day 9h.-17h. 2nd mm. (7)	Sunshine Sunrise to Sunset 2nd hr. (8)
Berwick-on-Tweed	orc	cT₀ c	32	42	Trace	1	0·5
Douglas (I. o. M.)	bc	bc	32	42	–	–	4·6
Llandudno	c	cbc	28	41	–	–	0·1
Colwyn Bay	cb	bbcc	32	41	–	–	0·8
Rhyl	bc	bc	28	41	–	–	0·0
Wallasey	c	c	31	39	–	–	0·2
Southport	ocbc	bcopd	*32	40	–	0·1	1·0
Blackpool	c	c	30	39	–	–	0·9
Ilkley	cbo	bc	29	41	0·3	–	2·2
Cleethorpes	cb	bc	35	41	–	–	4·2
Skegness	ocbc	bc cpro	34	42	0·4	Trace	4·1
Aberystwyth	xxbc	bc	30	42	–	–	6·9
Bath	cbcb	bbccb	35	41	Trace	–	3·3
Cheltenham‡	ocbc	bch₀b	35	[illegible]	1	Trace	3·3
Leamington Spa	c	ch	34	41	0·1	0·3	3·3
Lowestoft	bccbc	c	38	41	0·3	–	2·0
Harwich & Dovercourt	bcs₀	bcs₀ bc	34	40	0·4	Trace	2·1
Maldon	bc	bcc	34	40	–	–	2·0
Southend	bbc	os	34	39	–	0·2	1·7
Bude	xbbcc	cbbc	36	46	–	–	2·0
Penzance	b	b	35	43	–	–	3·4
Paignton	bcm	bbc	35	42	–	–	2·8
Torquay	cm	bcc	36	43	–	–	4·3
Jersey	cT	cT	37	41	–	3	0·2
Weymouth	b	b	35	42	–	–	7·0
Bournemouth	b	b	33	42	–	–	6·4
Ventnor	xb	bc	34	40	–	–	4·5
Portsmouth (S'thsea)	bbc	bco	35	42	–	–	5·0
Bognor	cbcc	bccbc	34	40	–	–	2·4
Littlehampton	bc	bc	33	39	–	–	1·5
Worthing	c	c	35	40	–	–	1·1
Brighton	bcrso	cbc	35	40	–	Trace	1·0
Eastbourne‖	cirsc	c	34	39	1	0·5	1·1
Hastings‖	csrsc	oprsc	34	39	2	1	2·3
Folkestone	cihbc	bcco	35	41	3	Trace	2·5
Dover	bcchpbc	bcphc	37	41	2	Trace	2·9
Tunbridge Wells	bcoho	ohoc	35	39	Trace	0·3	1·3
Ramsgate	c	c	37	41	2	–	2·2
Margate	chbc	bcc	37	41	1	–	1·5
Deal	ocbc	bcco	36	41	1	–	2·7

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24515. FRIDAY, 4th. JANUARY, 1929.

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

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1033.6	+2	SW	2	c	42	75	8	1500	Cu	4	ASt	9	•
Stornoway	1033.9	0	S	3	c	40	85	7	4000	StCu	10	-	10	•
Wick	1035.4	0	SW	2	bc	36	85	8	2600	Cu	2	CiSt	4	•
Tiree	1035.3	0	S'W	4	c	40	85	8	1500	StCu	10	-	10	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1037.1	0	SSW	1	mmc	37	75	4	2500	StCu	9	-	9	3
Malin Head	1036.4	+1	SSE	3	c	38	85	7	5700	StCu	2	ACu	8	•
Renfrew	1038.0	0	-	0	FFo	26	97	0	<150	St	10	-	10	9
Edinburgh (Inchkeith)	1037.3	+1	WSW	1	fo+	34	97	3	<150	St	10	-	10	•
Leuchars	1036.8	-2	-	0	c	34	92	6	2500	StCu	10	-	10	4
Eskdalemuir	1037.0	0	NNE	1	c	34	75	8	4000	StCu	10	-	10	7
Tynemouth	1035.9	0	E	2	bc	39	65	8	1500	Cu	6	-	6	•
Blacksod Point	1034.2	+1	ESE	3	bc	38	86	7	-	-	0	ACu	6	•
Donaghadee	1035.4	+1	S	2	bc-	39	65	8	4000	Cu	4	-	4	•
Birr Castle	1033.9	•	E	1	bc-	37	75	6	-	-	0	ASt	5	•
Holyhead	1034.7	+1	NE'E	3	c+	38	75	7	4000	StCu	9	-	9	1
Liverpool (Bidston)	1034.4	-1	NE'E	3	c+	35	65	5	4000	St	10	-	10	•
Chester (Sealand)	1033.9	-1	NE'E	2	mc-	35	75	4	4000	StCu	9	-	9	3
Harrogate	1035.1	0	NE	1	c	35	75	8	4000	StCu	9	-	9	•
Spurn Head	1033.1	0	NE	4	c	38	65	8	5700	StCu	9	-	9	•
Birmingham (Edgbaston)	1032.8	-1	ENE	4	ffc	34	65	3	1500	StCu	9	-	9	3
Cranwell	1033.0	-1	NE'N	3	c	35	75	8	2600	StCu	10	-	10	1
Gorleston	1031.1	-1	E'N	6	c/h	37	85	6	2500	Nb	9	-	9	•
Valentia (Cahirciveen)	1032.4	-1	ESE	3	b	39	65	8	4000	StCu	1	-	1	1
Roches Point	1032.8	0	ESE	3	c	40	65	8	2500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1031.8	+1	NE	3	bc:	37	75	8	2500	Cu	4	-	4	•
Ross-on-Wye	1031.1	0	ENE	4	bc	36	65	8	4000	StCu	7	-	7	1
Leafield	1031.1	0	NE'N	4	c	34	85	8	5700	StCu	9	-	9	3
Winchester (Worthy Dn.)	1028.2	-1	NNE	4	b	37	65	8	2500	Cu	1	-	1	2
S. Farnborough	1028.9	-1	NE	4	bc+	36	65	6	2500	Cu	5	-	5	1
London (Kew Obsy.)	1029.6	0	NE'E	4	c	37	55	6	1500	StCu	9	-	9	1
Croydon	1029.1	0	NE'N	4	c/fs.	36	66	5	1500	StCu	9	-	9	1
Shoeburyness	1029.4	-1	ENE	6	c	37	85	8	2500	StCu	8	-	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1030.3	-1	NE	5	c	37	65	7	2500	StCu	9	-	9	1
	1027.3	0	N'E	6	c	35	65	8	1500	StCu	9	-	9	0
Scilly (St. Mary's)	1030.0	+1	NE'N	3	bc	39	66	8	4000	StCu	4	-	4	•
Falmouth (Pendennis)	1029.8	+1	NE	3	bc-	37	85	8	4000	StCu	7	-	7	•
Plymouth (Cattewater)	1029.5	+1	NE	5	bc+	38	75	8	4000	Cu	3	-	3	1
Portland Bill	1027.2	+1	NE	5	bc+	38	65	8	2500	Cu	6	-	6	•
Southampton (Calshot)	1028.2	-1	ENE	5	b	38	65	6	4000	Cu	2	-	2	0
Dungeness	1026.6	-1	ENE	6	c	37	75	8	2500	StCu	10	-	10	•
Guernsey (Fort George)	1025.4	-1	ENE	6	c	41	65	8	2500	StCu	9	-	9	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1033.2	0	SW	1	c	42	85	8	1500	Cu	5	ASt	9	•
Stornoway	1034.0	0	S	3	c	41	85	7	4000	StCu	10	-	10	4
Wick	1034.0	0	SW	2	bc	33	75	8	2500	Cu	2	CiSt	5	0
Tiree	1035.7	0	S'W	4	c	40	85	8	1500	StCu	10	-	10	3
Nairn	1037.1	•	-	0	b-	26	85	7	1500	St	2	-	2	•
Aberdeen	1038.0	+1	WSW	2	c	36	75	6	2500	StCu	9	-	9	0
Malin Head	1036.6	+1	SSE	3	b	34	92	8	-	-	0	-	0	0
Renfrew	1038.3	+1	-	0	FFo	23	97	0	<150	St	10	-	10	•
Edinburgh (Inchkeith)	1037.8	+1	N	1	0	37	75	7	800	St	10	-	10	0
Leuchars	1037.9	+2	-	0	c	34	92	6	2500	StCu	10	-	10	•
Eskdalemuir	1038.0	+2	NE'E	1	c	31	85	7	2500	St	9	-	9	•
Tynemouth	1036.9	+1	E	2	bc	39	65	8	1500	Cu	6	-	6	2
Blacksod Point	1034.2	0	ESE	3	b	36	85	7	•	-	0	-	0	2
Donaghadee	1036.1	+1	E	3	bc-	39	65	8	4000	StCu	7	-	7	2
Birr Castle	1035.1	•	E	1	bc	30	92	6	4000	Cu	2	ACu	4	•
Holyhead	1035.5	+1	ENE	3	c	37	75	6	4000	St	10	-	10	2
Liverpool (Bidston)	1036.6	+2	ENE	3	c	35	65	5	1500	St	10	-	10	•
Chester (Sealand)	1035.0	+3	NE	3	c	35	75	5	2500	StCu	10	-	10	•
Harrogate	1036.1	+1	NE	2	c	33	85	7	4000	StCu	9	-	9	•
Spurn Head	1033.9	0	NE'E	5	c	38	65	8	4000	CuNb	8	-	8	4
Birmingham (Edgbaston)	1034.1	+1	NNE	3	0	34	75	6	2500	St	10	-	10	•
Cranwell	1034.3	+2	NE'E	3	c	34	85	6	2500	StCu	10	-	10	•
Gorleston	1032.2	+2	E'N	5	cs.	36	85	7	1500	StCu	10	-	10	4
Valentia (Cahirciveen)	1033.7	+2	SE'E	3	bc	36	65	8	2500	StCu	5	-	5	1
Roches Point	1033.8	+1	ENE	2	c	37	65	8	2500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	1032.5	+2	NE	3	c+	35	75	7	1500	Cu	7	ACu	8	1
Ross-on-Wye	1032.3	+1	E'N	3	0	35	65	5	1500	St	10	-	10	•
Leafield	1032.1	+1	NNE	3	bc-	32	85	8	4000	StCu	6	-	6	•
Winchester (Worthy Dn.)	1030.4	+2	N	3	b	32	65	8	4000	StCu	1	-	1	•
S. Farnborough	1030.3	+1	NE	4	b	33	65	6	4000	StCu	1	-	1	•
London (Kew Obsy.)	1031.3	+2	NE	4	bc	35	65	7	-	-	0	ACu	7	•
Croydon	1030.7	+3	NE	4	c+	35	75	5	2500	St	8	-	8	•
Shoeburyness	1030.7	+2	NE	6	c	36	85	8	2500	StCu	7	ACu	9	•
Clacton-on-Sea	1030.3	+2	NE	6	c	36	75	7	4000	StCu	8	-	8	4
Felixstowe	1031.5	+2	N'E	5	c	36	75	7	2500	StCu	10	-	10	6
Lympne	1028.5	+1	N	5	c	34	65	8	2500	StCu	9	-	9	•
Scilly (St. Mary's)	1030.4	0	NE	4	bc+	37	65	8	4000	Cu	7	-	7	4
Falmouth (Pendennis)	1031.1	+1	NE	3	bc	36	92	7	4000	Cu	5	ACu	7	1
Plymouth (Cattewater)	1031.2	+3	NE	4	b	35	85	7	4000	Cu	2	-	2	0
Portland Bill	1028.8	+1	NNE	6	bc-	37	55	6	2500	StCu	6	-	6	5
Southampton (Calshot)	1030.3	+3	ENE	3	b	35	65	7	4000	StCu	1	-	1	0
Dungeness	1027.3	+1	NE	6	c	37	75	8	2500	StCu	8	ACu	10	6
Guernsey (Fort George)	1027.2	+1	ENE	6	c	40	65	8	2500	StCu	9	-	9	7

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	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 9h.								YESTERDAY.		TO-DAY.	
Kew	18	c3o4	c4c	bc c	37	34	32	-	-	0.0	•	•	6
Croydon	244	c4o5	c3o	c3o5	36	34	31	Tr	Tr	0.1	•	•	4
Greenwich (Royal Obsy.)	149	c	cbc c	c5	37	33	29	-	Tr	0.0	60	75	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•		•
Westminster (St. James' Pk.)	27	•	•	•	38	35	32	-		0.0	61	86	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0.1	•	•	•
Camden Square	110	c	c	•	36	35	*	-	-	•	•	87	•
Kensington Palace	80	c0	bc	•	37	34	30	-	-	•	(At 18h. G.M.T.)	70	•
Hampstead Observatory	450	•	•	•	35	30	27	-	Tr	1.0	•	39	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
0.6	9hrs 3rd	<0.3	4hrs 4th

Kew Observatory

Max.	Time.	Min.	Time.
0.2	7hrs 3rd	<0.1	3hrs 4th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 3rd. 17h.18m. to 4th. 07h.09m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	NIL	NIL
δ Ursae Minoris	13.45	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 to 13h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

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

4th.-11th. JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.1	11.58	15.50
	8.6	11.59	15.51
Greenwich	8.8	12.5	16.2
	8.7	12.5	16.4
Wick	9.4	12.17	15.31
	9.3	12.18	15.33
Valentia	8.51	12.46	16.41
	8.51	12.46	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.
ps 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:—left = fair weather after rain; - = has decreased; + = has increased.

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

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

SEA DISTURBANCE.

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

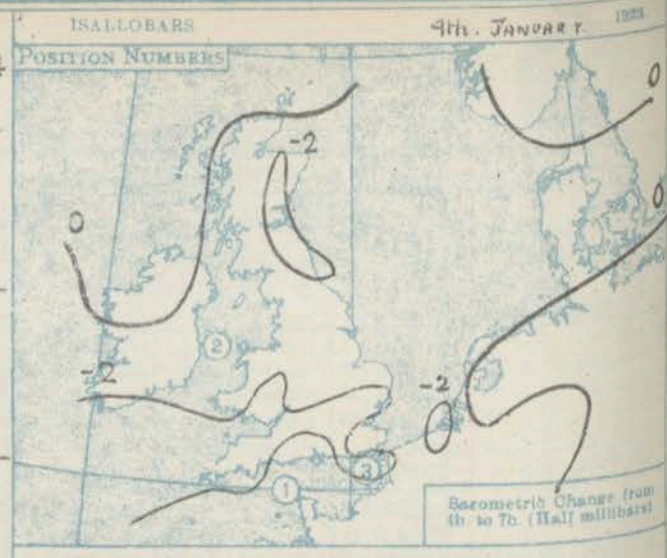
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

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	bcc	c	c	cbc	42	39	•	–	–	–	–	2·0
Stornoway	o	o	c	co	41	38	•	–	–	–	–	0·0
Wick	b-bc	b-bc	b-bc	b-bc	37	27	•	–	–	–	–	•
Tiree	o	o	o	o	40	35	29	–	–	–	–	0·0
Nairn	bx	bx	bx	bx	29	19	•	–	–	–	–	2·4
Aberdeen	cff 33	c3 3.	cbx	bx	38	24	18	–	–	–	–	0·0
Malin Head	c	cbcb	b	bbco	38	27	•	–	–	–	–	1·2
Renfrew	oFFx	FFx	oFfx	bffx	27	22	16	–	–	–	–	0·0
Edinburgh (Inchkeith)	cmoffe	ofmm.	omm	omcmbc	37	34	28	Tr.	–	–	–	0·0
Leuchars	cxm.	cm.	cm.	cm.	34	32	31	–	–	–	–	0·0
Eskdalemuir	c	c	c	cbcx	34	26	19	–	–	–	–	0·1
Tynemouth	bc	bc	bc	bco	39	37	31	–	–	–	–	•
Blacksod Point	bc	b	b	c	39	34	•	–	•	–	•	•
Donaghadee	cbc.	bcc	c	cbcc	41	35	•	–	–	–	–	•
Birr Castle	bc3.	bc3.	bccx	cxm.	37	29	16	–	–	–	–	3·0
Holyhead	bbc	cm.	c3.	bcb3.	38	35	32	–	–	–	–	2·9
Liverpool (Bidston)	bcc3.	c3cm.	c3.	cm.	35	31	28	–	–	–	–	0·0
Chester (Sealand)	bccmm	cm m.	c3.m.	cm.	35	32	28	–	–	–	–	0·0
Harrogate	c	c	cb	bbcc	35	28	22	–	–	–	–	0·1
Spurn Head	cps.	c	c	c	38	36	•	Tr.	12.30	–	–	0·0
Birmingham (Edgbaston)	cm	cmo	o	omc	35	32	32	–	–	–	–	0·0
Cranwell	c	cpsc	c	c	35	32	31	Tr.	14.30	–	–	0·0
Gorleston	cphq	cis.q	cmishq	cis.q	38	36	35	Tr.	11.00	Tr.	21.00	0·0
Valentia (Cahirciveen)	cbccb	bbc	bcc	c	40	35	32	–	–	–	–	2·7
Roches Point	c	c	c	c	40	36	•	–	–	–	–	•
Pembroke (St. Ann's H.)	bc	bc	bcm.	cbcm.	38	32	•	–	–	–	–	6·3
Ross-on-Wye	cbcc	co	occo	c	36	34	32	–	–	–	–	1·6
Leafield	c	cbc	bcc	c	34	31	28	–	–	–	–	0·2
Winchester (Worthy Dn.)	bcb	byb	bbc	bcc	37	31	26	–	–	–	–	5·5
S. Farnborough	cbc	bcb3.	b3.c	c	37	32	27	–	–	–	–	3·8
London (Kew Obsy.)	c3.y	cyc	bc	c	37	34	32	–	–	–	–	0.0
Croydon	cps3.	c3.	c3.	cojis.	36	34	31	Tr.	<8.00	Tr.	5.30	0·1
Shoeburyness	ophqc	cq	co	o	43	33	33	Tr.	<8.00	–	–	0.0
Clacton-on-Sea	c	c	c	c	37	35	34	–	–	–	–	0.0
Felixstowe	crs	c3.rs	c	c3.	38	35	34	Tr.	<8.00	–	–	0.0
Lympne	cq	cq	o	ocs.s.	35	32	31	–	–	Tr.	5.30	0.0
Scilly (St. Mary's)	bc	bc	bcc	cbc	39	34	•	–	–	–	–	3.7
Falmouth (Pendennis)	cbc	bc	bc	bcc	38	33	•	–	–	–	–	0.1
Plymouth (Cattewater)	cb	bcb	bbc	bcc	39	32	27	–	–	–	–	4.1
Portland Bill	bbc	bcc3.	bcb	bc	c	39	33	•	–	–	–	•
Southampton (Calshot)	bbcb3.	c3.	bcc	c	38	33	29	–	–	–	–	4.0
Dungeness	c	c	c	c	39	33	•	–	–	–	–	•
Guernsey	cprsqv	cq	cq	cq	41	39	•	Tr.	9.00	–	–	0.1



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	10h 3rd	SCOTIA	E	4	c	39	48	7
1	12h 3rd	ST HELIER	NE	7	cff	41	52	7
3	2h 4th	BRIGHTON	ENE	5	c+	38	46	8

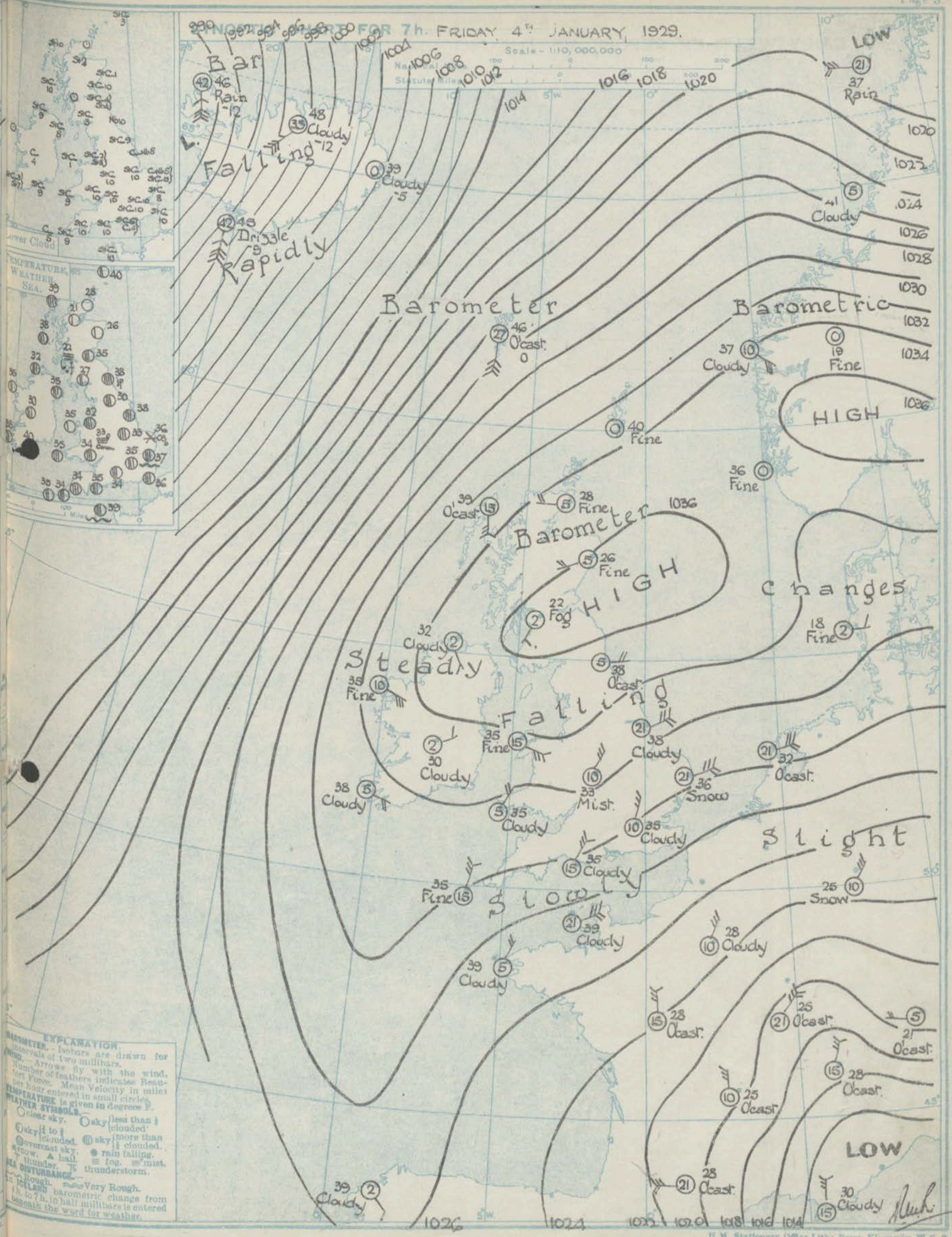
General Inference.

An anticyclone with centres over Scotland and Southern Scandinavia is almost stationary. Rather cold and mainly cloudy weather will continue.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 4th January, 1929.	Further Outlook.
1. S.E. England 2. E. England	Wind N.E. moderate or fresh, strong locally on coast; mainly cloudy; local wintry showers, rather cold.	Mainly dry, rather cold weather but local wintry showers near the East coast of England.
3. E. Midlands 4. W. Midlands	Wind N.E. light to moderate; mainly cloudy, rather cold.	
5. S.W. England	As 1 - 2.	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	As 3 - 4.	
10. N.E. England 11. S.E. Scotland	Light variable wind; mainly cloudy, local wintry showers, rather cold.	
12. S.W. Scotland & Isle of Man	Light variable wind; fair; cold, sharp frost locally.	
13A. W. Scotland 13B. N.W. Scotland 14. Mid-Scotland	Moderate southerly wind, becoming fresh; cloudy; moderate temperature.	
15. N.E. Scotland	As 12.	
16. Orkneys and Shetlands 17. N.W. Ireland	As 13A-13B.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light easterly wind; cloudy; rather cold.	

R.S.R.

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


METEOROLOGICAL CHART FOR 7h. FRIDAY, 4th JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometer Falling Rapidly
Barometer Steady Falling Slowly
Barometric changes Slight
HIGH
LOW
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 ¼ to ¾ clouded. sky less than ¼ clouded. sky more than ¾ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. 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.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. FRIDAY 4th JANUARY 1929. No. 4

Stations	Height above M.S.L. in feet	Obs. at 1h. G.M.T. 4th: Barom. at M.S.L. mb.	Change in 3 Hours*	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility* 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Obs. at 7h. G.M.T. 4th: Barom. at M.S.L. mb.	Change in 3 Hours*	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility* 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun. 0-9
Lerwick	84	1032·8	−1	SW	1	c	42	92	7	1500	Cu	5	A.St	10	1032·4	+1	—	0	bc	40	85	8	1500	StCu	3	—	3	*
Stornoway	30	1034·6	−1	SW	3	c	*	*	6	*	*	*	*	9	1032·7	+0	S	4	o	39	92	7	2500	St	10	—	10	3
Wick	81	1035·3	−1	SW	2	b	31	85	8	2500	St	2	—	2	1034·9	−2	W	2	b	28	85	8	—	—	0	—	0	0
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·1	−0	S'W	4	c	38	88	9	1500	StCu	10	—	10	1
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·9	*	—	0	bc	21	85	8	1500	St	2	—	2	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1035·8	+0	WSW	2	b	26	85	6	4000	StCu	1	—	1	0
Malin Head	81	1036·2	−1	SSE	2	b	30	97	7	—	—	0	—	0	1035·0	+1	SSE	1	c	32	85	7	5700	StCu	9	—	9	1
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1036·5	−1	SW	1	ffb	22	97	2	—	—	0	—	0	*
Edinburgh (Inchkeith)	100	1036·5	−2	W	2	mo	35	85	4	430	St	2	—	2	1035·5	−2	WSW	1	c+	35	75	7	1500	St	8	—	8	0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1036·2	−2	—	0	c	33	88	6	2500	StCu	10	—	10	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1035·9	−1	NNE	2	bc	27	75	8	1500	StCu	3	—	3	*
Tynemouth	67	1036·2	0	E	2	bc	40	65	8	1500	Cu	6	—	6	1034·0	−2	E	2	ojp	38	92	7	1500	Nb	10	—	10	2
Blacksod Point	18	1034·0	0	ESE	3	b	34	85	7	*	—	0	—	0	1032·7	+0	SSE	3	bc−	35	75	7	*	—	0	A.Cu	6	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·5	−1	W	1	c	35	75	8	4000	StCu	8	—	8	2
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1033·7	*	ENE	1	c+	30	92	6	1500	Cu	4	A.St	10	*
Holyhead	26	1035·1	−1	NE'E	3	bc−	36	75	6	4000	StCu	7	—	7	1033·9	−1	E'S	3	b	35	75	6	5700	StCu	1	—	1	1
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·1	−1	NE	2	c	32	75	6	4000	St	10	—	10	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1033·6	−2	N'E	1	c	32	85	5	2500	St	9	—	9	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1034·6	−1	NE	1	c	30	85	7	4000	StCu	9	—	9	*
Spurn Head	29	1035·5	−0	NE	4	c	37	65	8	4000	CuNb	8	—	8	1034·2	−1	ENE	5	c	38	75	7	4000	CuNb	8	—	8	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1032·8	−1	NE	3	mo	33	75	4	4000	StCu	10	—	10	*
Cranwell	336	1035·6	−1	NNE	3	c	33	97	6	2500	StCu	10	—	10	1032·8	−1	NE	2	c	33	85	6	2500	StCu	10	—	10	*
Gorleston	14	1031·6	−1	E	5	c	36	85	7	2500	CuNb	10	—	10	1030·8	−1	E'N	5	c5₀	36	85	7	1500	CuNb	10	—	10	4
Valentia (Cahirciveen) P	30	1032·9	−2	ESE	2	o	37	97	9	*	St	10	—	10	1031·5	−2	ESE	2	c	38	65	8	2500	St	10	—	10	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1032·0	−2	E	2	c	40	65	8	2500	StCu	9	—	9	1
Pembroke (St. Ann's H.)	150	1035·4	0	NE	2	c+	34	85	7	2500	StCu	9	—	9	1031·1	−2	NE	2	c+	35	85	7	2500	StCu	9	—	9	*
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1031·3	−2	NE	3	c	34	75	7	2500	StCu	10	—	10	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·8	−2	NE'N	3	c	32	75	8	4000	StCu	10	—	10	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·3	−1	NNE	3	c	33	75	8	2500	StCu	4	A.St	10	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·4	−2	N'E	2	c	34	75	7	2500	StCu	10	—	10	*
London (Kew Obsy.)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	1030·0	−2	NNE	3	c	35	85	7	2500	StCu	10	—	10	*
Croydon	244	1030·3	0	NE'N	4	c	34	75	6	2500	StCu	8	—	9	1029·1	−1	NE'N	4	o5₀	34	75	6	1500	St	10	—	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·6	−1	NE	5	c	35	92	8	1500	Nb	3	A.St	10	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·6	−2	ENE	6	c	37	65	7	4000	StCu	8	—	8	4
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1029·8	−2	NE	5	c	36	75	6	1500	StCu	10	—	10	6
Lympne	350	1029·7	+1	N'E	5	o+	34	65	8	2500	Nb	10	—	10	1027·8	−2	N'E	5	o5₀8₀	33	65	7	1500	Nb	10	—	10	*
Scilly (St. Mary's)	163	1030·9	0	NE	3	c	36	78	8	4000	Cu	8	—	8	1029·7	−2	NNE	4	bc	35	65	8	4000	Cu	5	—	5	3
Falmouth (Pendennis)	200	1031·8	0	ENE	3	bc	35	85	8	4000	Cu	5	A.St	7	1030·4	−2	NE'N	3	c+	34	85	8	4000	StCu	9	—	9	1
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1030·3	−3	NE	4	c	34	85	7	4000	StCu	10	—	10	0
Portland Bill	32	1029·9	0	NE'N	5	bc+	35	65	8	2500	StCu	7	—	7	1028·6	−1	NE	4	c	35	65	8	2500	StCu	10	—	10	
Southampton (Calshot)	10	1030·4	−1	ENE	3	c	35	65	7	1500	StCu	10	—	10	1029·5	−1	ENE	4	c	35	68	7	2500	StCu	10	—	10	
Dungeness	20	1028·2	+1	NE	6	c	37	75	8	2500	StCu	10	—	10	1027·5	−2	NE	5	c	36	75	8	1500	StCu	10	—	10	5
Guernsey (Fort George) P	295	1028·2	0	NE	5	c	40	65	8	4000	StCu	8	—	8	1027·2	−1	ENE	5	c	39	75	8	2500	StCu	10	—	10	6

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

Stations	Weather: Forenoon.	Weather: Afternoon.	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	c	c	35	40	Trace	-	0·0
Douglas (I. o. M.)	bc	c	35	38	-	-	3·2
Llandudno	bcc	c	32	37	-	-	1·5
Colwyn Bay	b bcc	c	32	37	-	-	0·4
Rhyl	bc	bcg	31	37	-	-	0·2
Wallasey	c bcc	c	31	37	-	-	0·0
Southport	bcxc	co	*29	36	-	-	0·4
Blackpool	c	c	29	36	-	-	0·8
Ilkley	c	c	29	36	-	-	0·0
Cleethorpes	o	o	36	38	-	-	0·0
Skegness	o c o	o	36	38	-	-	0·1
Aberystwyth	x z bc	bc	31	36	-	-	2·9
Bath	b bc	b bc c	31	38	-	-	4·7
Cheltenham‖	c bcc	c bcc	33	37	-	-	0·4
Leamington Spa	c	c	31	36	-	-	0·1
Lowestoft	c p r s	c	36	38	-	Trace	0·7
Harwich & Dovercourt	o t s₀	o	34	37	Trace	Trace	0·0
Maldon	c	c	35	37	-	-	0·0
Southend	c o i s	o	35	37	Trace	Trace	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	x b bc	bc	34	39	-	-	5·4
Penzance	c	c b	33	39	-	-	2·0
Paignton	b	b bc c o	34	38	-	-	3·0
Torquay	b m	b bc c o	35	39	-	-	4·0
Jersey	d bc	c	33	41	0·1	-	1·7
Weymouth	b	b	34	39	-	-	6·0
Bournemouth	b	b o g o	31	38	-	-	4·8
Ventnor	x b o	o u	33	38	-	-	2·4
Portsmouth (S'thsea)	b c b	b c o	33	39	-	-	4·0
Bognor	b bc	bc	34	38	-	-	3·6
Littlehampton	bc	bcc	34	38	-	-	4·7
Worthing	bc	bcc	34	38	-	-	4·6
Brighton	bc	bc	35	38	-	-	2·8
Eastbourne‖	c bcc	c o c	35	38	-	-	0·7
Hastings‖	c bcc c	co	34	37	0·1	-	0·6
Folkestone	co	o	35	37	-	-	0·1
Dover	c	c	36	37	Trace	-	0·1
Tunbridge Wells	c o c	o	35	36	-	-	0·1
Ramsgate	c	co	36	37	-	-	0·0
Margate	c	c	36	41	-	-	0·0
Deal	o	o	36	39	-	-	0·0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24516 SATURDAY. 5th. JANUARY, 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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1031.4	-2	S'W	1	c	41	75	7	1500	Cu	4	ASt	9	•
Stornoway	1031.4	-1	S	4	o	38	85	7	2500	St	10	-	10	•
Wick	1032.5	-2	SW	2	c	34	85	8	1500	CuNb	6	CiSt	8	•
Tiree	1032.1	-1	S'W	4	o	38	92	7	1600	St	10	-	10	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1034.5	-3	SW	2	b	32	75	6	4000	StCu	1	Ci	2	6
Malin Head	1032.9	-3	SSE	3	c-	36	85	8	5700	StCu	4	ACu	8	•
Renfrew	1035.2	-2	-	0	FFo	23	97	0	<150	St	10	-	10	9
Edinburgh (Inchkeith)	1034.8	-2	WNW	1	bc	36	85	6	1500	St	2	Ci	6	•
Leuchars	1034.9	-3	WNW	2	bc	35	85	6	5700	StCu	1	Ci	3	6
Eskdalemuir	1034.4	-4	ENE	3	bc	33	85	8	4000	StCu	7	-	7	1
Tynemouth	1033.1	-2	E	2	bc/r	40	86	7	1500	CuNb	6	-	6	•
Blacksod Point	1030.7	-3	SE'E	3	b	37	75	7	*	Cu	2	-	2	•
Donaghadee	1032.9	-2	SSE	3	c	38	65	8	4000	StCu	8	-	8	•
Birr Castle	1031.9	*	ENE	1	c	35	75	6	2500	StCu	9	-	9	•
Holyhead	1032.7	-3	E'S	3	c+	38	75	6	4000	StCu	8	-	8	1
Liverpool (Bidston)	1032.8	-3	ENE	3	mmc	36	66	4	4000	St	10	-	10	•
Chester (Sealand)	1032.7	-3	E'N	2	mmc	36	75	4	2500	St	10	-	10	1
Harrogate	1033.4	-1	NE	2	c	34	85	5	2500	Nb	9	-	9	•
Spurn Head	1032.0	0	NE'N	4	c/pr.	37	85	8	4000	CuNb	5	ACu	9	•
Birmingham (Edgbaston)	1031.6	-3	NE	4	ffc	35	75	3	2500	StCu	9	-	9	3
Cranwell	1032.2	-2	NE	3	c	37	75	7	4000	StCu	9	-	9	1
Gorleston	1029.0	-1	ENE	3	c	37	85	7	2500	StCu	10	-	10	•
Valentia (Cahirciveen)	1029.5	-3	E'S	3	c	39	65	8	4000	StCu	9	-	9	1
Roches Point	1030.8	-2	E	3	c	39	65	8	2500	StCu	9	-	9	•
Pembroke (St. Ann's H.)	1029.6	-2	ENE	2	bc-	36	85	7	2500	CuNb	4	ASt	7	•
Ross-on-Wye	1030.0	-2	ENE	4	c	36	65	7	4000	StCu	9	-	9	1
Leafield	1030.0	-2	NE	4	c	33	65	8	6700	StCu	10	-	10	3
Winchester (Worthy Dn.)	1028.8	-2	NNE	3	c	34	75	7	1500	StCu	10	-	10	3
S. Farnborough	1028.8	-2	NE	4	cs.	34	75	6	2500	StCu	10	-	10	0
London (Kew Obsy.)	1029.2	-2	NE	3	cs.	36	65	5	1500	St	10	-	10	1
Croydon	1028.7	-2	NE'E	4	cs.	34	75	5	1500	St	10	-	10	1
Shoeburyness	1028.9	+1	NE	4	c	35	85	8	2500	StCu	8	ASt	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1029.1	-3	NNE	4	c	36	65	7	2500	StCu	8	ASt	10	1
Lympne	1027.3	-2	NNE	4	c/ps.	32	65	7	1500	St	10	-	10	3
Scilly (St. Mary's)	1029.5	0	N'E	2	c	36	65	8	4000	Cu	9	-	9	•
Falmouth (Pendennis)	1029.0	-1	NE'N	3	c	35	85	8	4000	StCu	10	-	10	•
Plymouth (Cattewater)	1029.3	-3	NE	4	c	35	85	8	1500	StCu	10	-	10	1
Portland Bill	1027.9	-2	NNE	4	c	36	65	6	1500	St	7	ASt	10	•
Southampton (Calshot)	1028.7	-2	ENE	4	c	35	75	6	2500	StCu	10	-	10	0
Dungeness	1026.8	-2	ENE	5	cs.	35	85	8	2500	StCu	10	-	10	•
Guernsey (Fort George)	1026.6	-2	NE	4	c/prs.	39	75	8	2500	StCu	9	-	9	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1031.6	+2	S'W	1	c+	40	75	7	1500	Cu	5	ASt	10	•
Stornoway	1030.1	-2	S	5	o	39	85	7	2500	St	10	-	10	4
Wick	1032.7	-1	W	2	b	30	85	8	2500	St	2	-	2	0
Tiree	1031.8	-1	SSW	3	o	39	85	7	1500	St	10	-	10	1
Nairn	1031.7	•	-	0	b-	24	75	8	1500	St	2	-	2	•
Aberdeen	1034.0	0	SW	2	b	29	85	6	-	-	0	Ci	1	0
Malin Head	1032.2	-1	SSE	3	c	36	85	8	5700	StCu	9	-	9	1
Renfrew	1034.4	-1	-	0	fo-	18	97	3	<150	St	10	-	10	•
Edinburgh (Inchkeith)	1034.1	-1	NNW	1	o	34	85	7	1500	St	10	-	10	0
Leuchars	1034.8	0	WNW	1	c+	30	85	6	2500	StCu	10	-	10	•
Eskdalemuir	1034.2	0	NE'N	2	cs.	31	92	6	2500	St	9	-	9	•
Tynemouth	1033.9	0	E	2	bc/r	39	85	8	1500	CuNb	6	-	6	2
Blacksod Point	1029.5	-1	ESE	4	bc	36	75	7	•	Cu	4	-	4	2
Donaghadee	1031.5	-2	SSE	3	c	40	85	8	4000	StCu	8	-	8	2
Birr Castle	1030.5	*	E	1	c	35	75	6	4000	StCu	4	ASt	10	•
Holyhead	1031.1	-2	E'S	3	c	37	75	6	2500	St	9	-	9	1
Liverpool (Bidston)	1031.7	-1	ENE	3	mc+	36	65	4	800	St	10	-	10	•
Chester (Sealand)	1031.4	-2	ENE	1	c-	35	75	5	2500	StCu	9	-	9	•
Harrogate	1032.7	-1	NNE	2	cs.	33	92	5	2500	Nb	9	-	9	•
Spurn Head	1030.6	-1	ENE	4	bc-	38	85	8	4000	CuNb	6	-	6	4
Birmingham (Edgbaston)	1030.5	0	NE	3	mmc	35	75	4	2500	StCu	10	-	10	•
Cranwell	1031.0	-1	NE	2	c	35	85	7	4000	StCu	10	-	10	•
Gorleston	1028.8	0	NE'E	6	c	37	85	7	2500	StCu	10	-	10	1
Valentia (Cahirciveen)	1027.6	-1	E'S	4	c	39	65	8	2500	StCu	9	-	9	3
Roches Point	1029.3	-1	E	3	c	38	65	8	2500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	1029.2	-2	ENE	2	c+	35	85	8	2500	StCu	10	-	10	1
Ross-on-Wye	1029.1	0	NE	3	c	35	92	7	2500	StCu	10	-	10	•
Leafield	1028.8	-1	NE	4	c	33	65	8	5700	StCu	10	-	10	•
Winchester (Worthy Dn.)	1028.1	-1	NNE	3	c	33	65	7	2500	StCu	10	-	10	•
S. Farnborough	1027.6	-2	NE	3	c	34	75	6	2500	StCu	10	-	10	•
London (Kew Obsy.)	1028.2	-1	NNE	3	o	35	75	5	1500	St	10	-	10	•
Croydon	1027.8	-2	NE	3	o	34	75	5	1500	St	10	-	10	•
Shoeburyness	1027.7	-1	NE	3	c	35	92	8	2500	StCu	7	ASt	10	•
Clacton-on-Sea	1027.7	-2	ENE	5	c	37	65	7	4000	StCu	8	-	8	3
Felixstowe	1028.4	-1	NE'N	5	c	37	65	7	2500	StCu	10	-	10	4
Lympne	1026.9	-2	N'E	4	oss	33	75	5	800	Nb	10	-	10	•
Scilly (St. Mary's)	1027.2	-2	NE'E	2	c	36	76	8	4000	StCu	10	-	10	1
Falmouth (Pendennis)	1027.8	-1	NE	4	c	34	92	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1028.0	-1	NE	3	c	35	75	8	1500	St	10	-	10	0
Portland Bill	1026.8	-2	NE	4	o	36	75	6	1500	Nb	10	-	10	5
Southampton (Calshot)	1029.0	0	E	4	c	36	65	7	2500	StCu	9	-	9	0
Dungeness	1025.8	-2	NE	5	cs.	37	85	8	2500	StCu	10	-	10	4
Guernsey (Fort George)	1026.6	-2	NE	4	c	38	76	7	1500	Nb	7	ASt	9	4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.
		24 HOURS ENDED 9h.								YESTERDAY.	TO-DAY.		
Kew	18	cm.s.	c3.o	o3cr.c	36	31	30	Tr.	1	0.0	*	*	5
Croydon	244	cm5.s.	cs.s.m	o3.rs.	36	30	28	Tr.	0.1	0.0			6
Greenwich (Royal Obsy.)	149	c	c	crs.o	35	30	28	-	0.3	0.0	69	78	5
City (Bushhill Row)	80	*	*	*	*	*	*	-	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	37	31	29	0.6		0.0	70	79	*
Regent's Pk. (Botanic Gdns.)	188	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	oc	c	*	35	32	*	-	0.5	*	*	82	*
Kensington Palace	80	c	c	*	35	31	30	-	1	*	(At 18h) 70	77	*
Hampstead Observatory	450	*	*	*	33	27	26	Tr.	0.3	0.0	*	96	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Imparity per cubic metre.

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

South Kensington	Max.	Time	Min.	Time
	0.8	4h. 9m.	<0.3	5h. 3m.

Kew Observatory	Max.	Time	Min.	Time
	0.2	4h. 18m.	<0.1	5h. 2m.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 4th. 17h. 15m. to 5th. 7h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	NIL	-
δ Ursae Minoris	13.45	NIL	-

CODE FOR STATE OF GROUND.

0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than ½ ins. deep).
4=Bare ground frozen (but more than ½ ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost or 1h. and 7h. reports).
7=Snow (thin layer often not continuous).
8=Snow (deep impeding traffic, usually a continuous layer).
9=Glazed roads (ice on roads from frozen rain or melted snow).

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

5th. - 6th. JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 / 8.6	11.56 / 11.59	15.51 / 15.52
Greenwich	8.7 / 8.7	12.5 / 12.6	16.4 / 16.5
Wick	8.3 / 8.2	12.18 / 12.18	15.33 / 15.34
Valentia	8.51 / 8.50	12.46 / 12.47	16.42 / 16.44

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

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

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

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

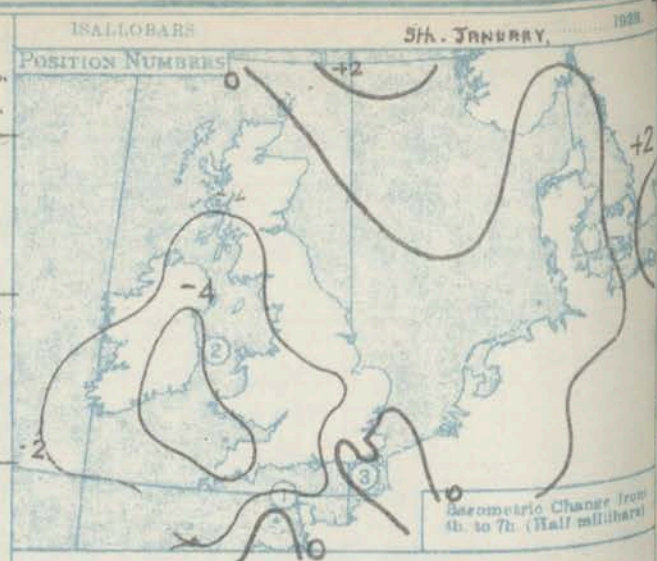
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 4th.	Weather. 18h.-18h. 4th.	Weather. 18h. 4th. to 1h. 5th.	Weather. 1h.-7h. 5th.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 4th. Hours.
Lerwick	bcc	c	c	c	42	38	•	-	-	-	-	0.0
Stornoway	o	o	c	ocbcb	40	35	•	-	-	-	-	0.0
Wick	c	b-bc	b-bc	bbc	37	25	•	-	-	-	-	•
Tiree	o	o	oq	o	39	36	35	-	-	-	-	0.0
Nairn	bxbc	bcbx	bx	bx	26	17	•	-	-	-	-	5.3
Aberdeen	bxz.	bz.x	bc	c	33	24	18	-	-	-	-	4.3
Malin Head	c	c	c	c	36	35	•	-	-	-	-	0.2
Renfrew	FFx	FFx	ofps.x	ompsx	24	18	17	-	-	Tr.	<21.00	0.0
Edinburgh (Inchkeith)	cbc	bccm.	cd.s.	oid.dd	40	33	30	-	-	1	<21.00	4.8
Leuchars	cm.bcm.	bcm.cm.	cm.	cm.bcm.	35	30	28	-	-	-	-	3.8
Eskdalemuir	cbc	bcc	cis.m.	cis.m.	34	30	28	Tr.	17.30	0.2	<21.00	0.0
Tynemouth	oir	bcoir.	bcp.	bccp.	41	38	33	2	<8.00	1	<21.00	•
Blacksod Point ...	cb	bc	bc	bc	38	34	•	-	•	-	•	•
Donaghadee	c	c	c	c	40	39	•	-	-	-	-	•
Birr Castle	cm.	cm.	cx	cx	35	32	27	-	-	-	-	0.0
Holyhead	bbcz.	bccz.	cbcb	bccm.	39	36	33	-	-	-	-	4.7
Liverpool (Bidston) ...	m.cz	czcm.	com.	om.z.	36	33	31	-	-	-	-	0.0
Chester (Sealand) ...	cm.m	cmm.	cm.	cm.	36	34	31	-	-	-	-	0.0
Harrogate	c	cis.	cis.b	bccis.	34	32	29	Tr.	16.30	Tr.	<21.00	0.0
Spurn Head	cpr	cpr	c	cr	39	36	•	0.2	11.00	0.4	6.30	0.0
Birmingham (Edgbaston)	mcf	cfm	cm	mco	36	32	32	-	-	Tr.	6.30	0.0
Cranwell	c	c	c	cois.	37	32	29	-	-	0.1	3.30	0.0
Gorleston	cisnq	cq	cbccq	cq	37	34	33	Tr.	-	-	-	0.0
Valentia (Cahirciveen)	c	c	c	c	40	37	36	-	-	-	-	0.0
Roches Point	c	c	c	c	41	37	•	-	-	-	-	•
Pembroke (St. Ann's H.)	cbcm	bccm	c	c	36	33	•	-	-	-	-	0.4
Ross-on-Wye	c	c	c	coc	36	33	30	-	-	-	-	0.0
Leafield	c	c	cbc	c	34	31	29	-	-	Tr.	6.30	0.0
Winchester (Worthy Dn.)	c	cs.c	c	cs.c	34	31	29	Tr.	13.30	Tr.	3.30	0.0
S. Farnborough ...	cp.s	cp.s.	cm.	cm.prs	34	30	29	Tr.	9.00	0.4	3.30	0.0
London (Kew Obsy.) ...	cm.s.	cz.o	ozc	cr.c	36	31	30	Tr.	9.00	1	2.30	0.0
Croydon	cmss	cssm.	oz.	ors.	36	30	28	Tr.	<8.00	0.1	3.30	0.0
Shoeburyness	c	cps.	co	o	41	30	29	Tr.	14.30	-	-	0.0
Clacton-on-Sea ...	c	c	c	c	37	32	31	-	-	-	-	0.0
Felixstowe	cschcsc	c	c	c	37	32	31	Tr.	<8.00	-	-	0.0
Lympne	cps.	os.sm.	os.sm.	ois.o	33	28	27	0.2	<8.00	Tr.	<21.00	0.0
Scilly (St. Mary's) ...	bcc	c	c	cbc	36	35	•	-	-	-	-	0.1
Falmouth (Pendennis)	c	c	c	c	35	33	•	-	-	-	-	0.0
Plymouth (Cattewater)	c	c	c	c	36	34	29	-	-	-	-	0.0
Portland Bill	cz.	coz.	oz.	obcc	37	34	•	-	-	-	-	•
Southampton (Calshot)	c	cm.c	co	o	36	33	32	-	-	-	-	0.0
Dungeness	bcps	cp.s	cpso	cx	38	29	•	Tr.	9.00	Tr.	-	•
Guernsey	cprs	cprs	co	os.s.	39	32	•	0.4	9.00	1	-	0.0



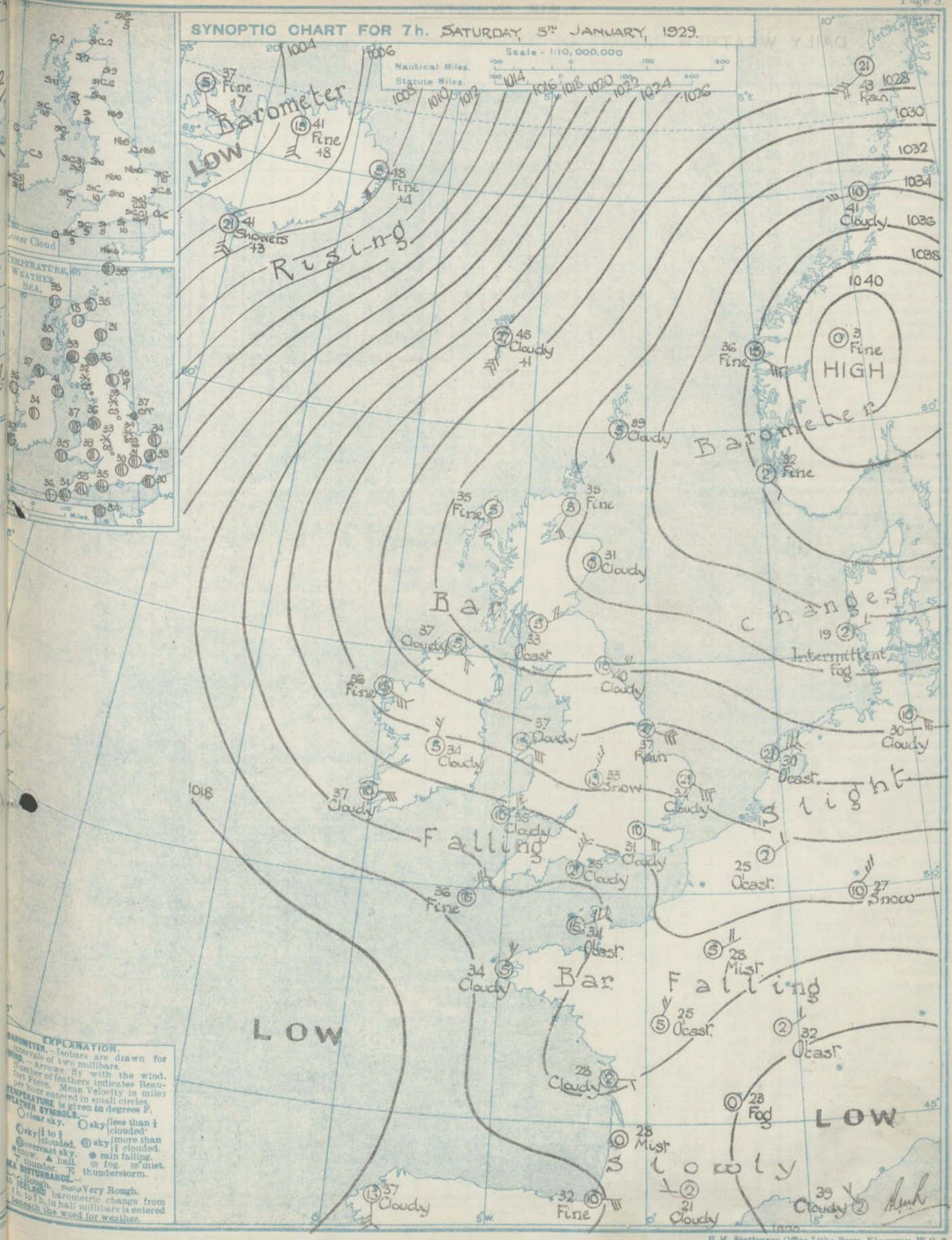
Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Tendency.
2	4th. 10h	Scotia	E	4	c	39	48	7
3	5th. 2h	Dieppe	ENE	4	c	36	45	5

GENERAL INFERENCE.

An anticyclone centred over Southern Scandinavia covers the British Isles and the Baltic. Cold and mainly cloudy weather will continue with local wintry showers.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 5th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England	Moderate to fresh easterly winds; cloudy, slight snow or sleet showers; cold.	
3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Moderate east to northeast wind; cloudy, local snow or sleet showers; cold.	No important change.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light easterly winds; mainly cloudy, local snow or sleet showers; cold, sharp frost in places.	
13 A. W. Scotland 13 B. N.W. Scotland	Light S. to S.W. winds; fair; cold, sharp frost at night.	
14. Mid Scotland 15. N.E. Scotland	Light variable winds; mainly cloudy; cold, sharp frost at night.	
16. Orkneys and Shetlands	As 13A. - 13B.	
17. N.W. Ireland 18. N.E. Ireland	Light S.E. winds; mainly cloudy; cold, sharp frost at night.	
19. S.E. Ireland 20. S.W. Ireland	As 8 - 12.	



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. SATURDAY 5TH JANUARY 1929. No. 5

Stations	Height above M.S.L. in feet	9h. Barom. at M.S.L. mb.	9h. Change in 3 hours	9h. Wind Direc.	9h. Wind Force 0-12	9h. Weather	9h. Temp. °F.	9h. Humidity %	9h. Visibility 0-9	9h. Cloud Low Height Feet	9h. Cloud Low Form	9h. Cloud Low Amt. 0-10	9h. Cloud Upper Form	9h. Cloud Total Amt. 0-10	7h. Barom. at M.S.L. mb.	7h. Change in 3 hours	7h. Wind Direc.	7h. Wind Force 0-12	7h. Weather	7h. Temp. °F.	7h. Humidity %	7h. Visibility 0-9	7h. Cloud Low Height Feet	7h. Cloud Low Form	7h. Cloud Low Amt. 0-10	7h. Cloud Upper Form	7h. Cloud Total Amt. 0-10	Sun. 0-8
Lerwick	84	1031.7	0	S'W	2	c	40	75	8	1500	Cu	5	ASt	10	1032.9	+2	SSW	2	c	39	75	8	1500	StCu	5	ASt	10	•
Stornoway	30	1031.3	0	SW	4	c	•	•	6	•	•	•	•	10	1030.2	-1	S	2	b	35	85	7	4000	Cu	2	-	2	1
Wick	83	1033.0	+1	SW	2	b	33	85	8	2500	St	2	-	2	1031.8	-1	SW	2	bc	35	85	8	4000	StCu	2	CiSt	6	0
Tiree	35	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.2	-2	SE	4	o	38	75	8	1500	St	10	-	10	1
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.0	•	-	0	b-	18	75	7	1500	St	2	-	2	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1033.0	-1	-	0	c	31	97	6	1500	St	9	-	9	0
Malin Head	52	1031.3	-1	SE'S	3	c	36	85	7	5700	StCu	9	-	9	1028.9	-2	SE	2	c	37	92	7	5700	StCu	10	-	10	0
Renfrew	32	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.7	-2	ENE	2	o/s	33	97	7	2500	St	10	-	10	•
Edinburgh (Inchkeith)	100	1032.6	0	NE	2	o	34	92	8	1500	St	10	-	10	1030.9	-2	NE	3	o/d	36	97	8	1500	St	10	-	10	0
Leuchars	20	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.8	-2	N	1	bc+	31	97	6	2500	StCu	6	-	6	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	4	•	•	1030.6	-2	ENE	3	cs.	32	97	6	1500	St	9	-	9	•
Tynemouth	67	1032.0	-2	E	2	bc/r	39	85	8	1500	Cu	4	-	4	1030.1	-1	E	3	c;p	40	65	7	1500	Nb	9	-	9	2
Blacksod Point ...	18	1028.5	0	ESE	4	bc	36	75	7	•	Cu	4	-	4	1026.1	-2	SE'E	4	bc	36	75	7	•	-	0	ACu	3	2
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.7	-3	SE	4	c	41	75	8	4000	StCu	8	-	8	3
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.6	•	NNE	2	c	34	85	7	1500	Cu	3	ASt	9	•
Holyhead	26	1030.0	-2	E	3	bc+	37	85	6	2500	St	7	-	7	1026.3	-3	ESE	3	c	37	85	6	4000	St	8	-	8	•
Liverpool (Bidston) ...	188	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.2	-3	E	4	o	36	66	6	4000	St	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.2	-3	ENE	2	c	35	75	6	2500	StCu	10	-	10	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.0	-1	NE	2	cs.	33	86	7	2500	Nb	9	ASt	10	•
Spurn Head	29	1029.7	0	E	5	c	37	75	8	4000	CuNb	8	-	8	1026.9	-1	E'S	6	crr	37	92	7	4000	CuNb	8	ASt	10	4
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.2	-3	NE	3	os.	33	86	4	1500	Nb	10	-	10	•
Cranwell	236	1029.9	-1	ENE	3	c	34	85	7	2500	StCu	10	-	10	1027.5	-2	E'N	3	oss	34	85	6	800	Nb	10	-	10	4
Gorleston	14	1028.2	0	ENE	5	c	36	92	7	2500	Nb	4	ASt	10	1027.2	-1	ESE	5	c	34	85	7	2500	StCu	10	-	10	
Valentia (Cahirciveen) F	30	1026.5	0	E	3	o	38	97	9	•	St	10	-	10	1022.4	-3	E	3	c	37	65	8	2500	St	10	-	10	1
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.7	-3	E	3	c	39	65	8	2500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	180	1027.3	-1	N'E	1	c	35	86	8	2500	StCu	10	-	10	1023.4	-4	ENE	3	c-	35	92	7	1500	StCu	7	ACu	9	1
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.4	-3	ENE	2	c	33	85	6	2500	StCu	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.5	-3	ENE	3	ors	31	92	7	4000	St	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.7	-3	ENE	3	c	31	85	8	1500	St	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.2	-2	ENE	3	c	30	85	6	1500	StCu	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	36	•	•	•	•	•	•	•	1025.0	0	E'S	3	c	31	75	7	1500	St	10	-	10	•
Croydon	244	1025.0	-3	NE	4	o	34	75	6	1500	St	10	-	10	1024.6	0	E'S	4	o	30	75	6	1500	St	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.5	-1	E	5	c	32	92	8	1500	St	7	ASt	10	4
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.5	-1	ESE	5	c	33	65	7	4000	StCu	8	-	8	4
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.4	0	ENE	4	c	32	75	7	2500	StCu	10	-	10	•
Lympne	350	1024.6	-1	NE	4	o	32	85	7	800	Nb	10	-	10	1024.6	0	NE'E	4	o	28	75	7	1500	Nb	10	-	10	•
Scilly (St. Mary's) ...	163	1025.0	-4	NE	4	c	37	65	7	4000	StCu	10	-	10	1021.1	-2	NE	4	b-	36	75	7	-	-	0	ACu	2	3
Falmouth (Pendennis)	200	1026.5	-1	NE'N	4	c	35	97	7	4000	StCu	10	-	10	1022.1	-3	NE'E	3	c	34	97	7	4000	StCu	9	-	9	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.1	-4	NE	5	c	35	92	8	4000	StCu	9	-	9	0
Portland Bill	32	1024.4	-2	NE	4	o	35	65	6	2500	St	10	-	10	1021.8	-3	NE	5	c+	35	85	8	1500	St	6	ASt	10	5
Southampton (Calshot)	10	1026.2	-3	ENE	3	o	35	75	7	1500	St	10	-	10	1023.6	-2	ESE	5	o	36	75	7	1500	St	10	-	10	3
Dungeness	20	1024.8	-1	NE	5	c	34	92	7	2500	StCu	10	-	10	1024.7	0	E	3	c	30	75	7	1500	Cu	6	CiSt	10	3
Guernsey (Fort George) F	205	1023.6	-3	ESE	2	c+	35	85	7	4000	StCu	10	-	10	1021.7	+1	ENE	4	o	34	92	7	1500	Nb	10	-	10	

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 4TH JANUARY

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 3rd. to 9h. 4th. °F.	Temperature. Max. 9h. -17h. 4th. °F.	Rainfall.† Night 17h.-9h. 3rd-4th. mm.	Rainfall.† Day 9h.-17h. 4th. mm.	Sunshine. Sunrise to Sunset. 4th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bcma	cRbc	34	41	-	0.2	1.4
Douglas (I. o. M.) ...	xc	c	34	38	-	-	0.2
Llandudno ...	c	c	33	37	-	-	0.0
Colwyn Bay ...	coc	coco	32	37	-	-	0.0
Rhyl	o	o	32	37	-	-	0.0
Wallasey	cof	ocf	30	36	-	-	0.0
Southport	coc	co	*28	35	-	-	0.4
Blackpool	co	co	28	36	-	-	0.0
Ilkley	xbcc	o	27	36	-	-	0.2
Cleethorpes	o	oscr	36	38	-	0.2	0.2
Skegness	o	o	36	39	-	-	0.0
Aberystwyth ...	xx	bcc	33	36	-	-	0.2
Bath	c	c	32	38	Trace	-	0.0
Cheltenham ‖ ...	oc	c	34	36	-	-	0.0
Leamington Spa ...	c	c	33	36	-	-	0.0
Lowestoft	c	c	36	38	Trace	-	0.0
Harwich & Dovercourt	ocs.	ocs.	32	38	-	(Trace)	0.0
Maldon	c	c	34	36	-	-	0.0
Southend	os.	o	34	35	Trace	Trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xc	c	32	37	-	-	0.0
Penzance	c	cx	31	37	-	-	0.0
Paignton	ou	o	35	37	-	-	0.0
Torquay	o	o	35	37	-	-	0.0
Jersey	pc	cp	35	40	0.2	0.4	0.1
Weymouth	co	oc	32	36	-	-	0.0
Bournemouth ...	o	o	30	35	-	-	0.0
Ventnor ...	usro	ou	33	35	(Trace)	-	0.0
Portsmouth (S'thsea)	o	o	32	36	-	-	0.0
Bognor	s.o	o	33	38	{Trace}	-	0.0
Littlehampton ...	c	c	33	35	-	-	0.0
Worthing	c	c	34	38	-	-	0.1
Brighton	cbso	co	34	38	-	-	0.0
Eastbourne	o	ovbccs	33	37	-	Trace	0.1
Hastings‖	oc	coso	33	36	-	0.3	0.0
Folkestone	ois.	os.s.u	34	35	-	Trace	0.0
Dover	cops.	ocps.	35	36	Trace	Trace	0.0
Tunbridge Wells ...	o	opso	34	35	Trace	Trace	0.0
Ramsgate	o	opho	34	36	-	Trace	0.0
Margate	c	s.c	35	36	-	Trace	0.0
Deal	o	os.o	35	36	-	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. F The observations at 7h. G.M.T. and, at Guernsey, the sunshine readings are from an auxiliary station. ‡ For code see page 1. †‡ See footnote page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24517 SUNDAY 6th JANUARY 1929. Page 1.

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	1033.8	-1	S'E	2	c	40	85	8	1500	StCu	10	–	10	•
Stornoway	1029.3	-2	S	3	bc	38	86	8	4000	Cu	4	–	4	•
Wick	1031.3	-1	SW	4	c	39	75	8	1500	St	10	–	10	•
Tiree	1028.4	-1	S'E	4	bc	39	86	9	2500	Cu	6	–	6	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1031.2	-2	WNW	1	ffo	32	97	3	1500	St	10	–	10	9
Malin Head	1026.2	-3	ESE	4	c	40	85	8	5700	StCu	9	–	9	•
Renfrew	1029.1	-3	ENE	2	c	35	97	6	4000	Cu	9	–	9	9
Edinburgh (Inchkeith)	1029.3	-2	ESE	2	bc	40	85	8	4000	Cu	4	aCu	6	•
Leuchars	1029.7	-4	E	3	c/r	39	75	8	2500	St	9	–	9	4
Eskdalemuir	1028.7	-3	E	4	c	34	85	8	1500	StCu	9	–	9	7
Tynemouth	1028.4	-3	E	3	cjp	40	75	8	1500	Nb	9	–	9	•
Blacksod Point	1023.9	-2	SE'E	4	bc	37	75	7	–	–	0	aCu	6	•
Donaghadee	1026.0	-3	SE	4	c-	40	65	8	4000	StCu	8	–	8	•
Birr Castle	1023.2	•	ENE	1	c	37	75	6	2500	StCu	4	aSt	9	•
Holyhead	1024.1	-4	ESE	3	o/p/r₀	37	92	5	1500	St	10	–	10	/
Liverpool (Bidston)	1025.0	-3	ESE	5	c	35	85	6	2500	StCu	10	–	10	•
Chester (Sealand)	1025.1	-3	ESE	4	os₀	34	85	5	1500	St	10	–	10	3
Harrogate	1027.4	-1	E	3	os₀s₀	32	97	2	<150	St	10	–	10	•
Spurn Head	1026.9	0	E	4	c	38	75	8	4000	StCu	10	–	10	•
Birmingham (Edgbaston)	1024.9	-2	ESE	4	cs₀	31	92	4	1500	Nb	9	–	9	3
Cranwell	1027.0	-1	E	3	cs₀	33	85	7	1500	St	10	–	10	/
Gorleston	1025.8	-3	E	5	cs₀+	35	97	6	800	CuNb	10	–	10	•
Valentia (Cahirciveen)	1019.5	-5	E'S	3	c	37	65	8	2500	St	10	–	10	/
Roches Point	1021.1	-3	E	3	c	39	65	8	2500	StCu	10	–	10	•
Pembroke (St. Ann's H.)	1021.2	-3	ENE	3	c	36	92	7	2500	StCu	10	–	10	•
Ross-on-Wye	1025.7	-1	E'S	3	o	31	75	6	1500	St	10	–	10	/
Leafield	1025.6	-1	E'N	3	os₀	29	92	6	4000	St	10	–	10	7
Winchester (Worthy Dn)	1023.5	-2	ENE	3	cs₀	29	75	7	2500	St	10	–	10	3
S. Farnborough	1023.6	-3	ENE	2	cs₀	30	85	6	2500	Nb	9	–	9	9
London (Kew Obsy.)	1025.9	-2	E'S	3	os₀	30	85	3	800	St	10	–	10	7
Croydon	1023.6	-4	ESE	3	c/s	30	85	5	800	St	10	–	10	3
Shoeburyness	1024.3	-3	ESE	3	oss	31	97	5	450	St	10	–	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1025.5	-3	E	4	cs₀	34	85	7	1500	StCu	10	–	10	7
Lympne	1023.6	-3	ENE	4	c	28	75	6	1500	St	10	–	10	7
Scilly (St. Mary's)	1018.0	-3	ENE	3	c-	41	75	7	4060	Cu	8	–	8	•
Falmouth (Pendennis)	1019.1	-3	E	5	cRs-	35	97	6	1500	Nb	8	aSt	10	•
Plymouth (Cattewater)	1019.6	-4	E	5	bcs₀	35	97	6	1500	StCu	7	–	7	/
Portland Bill	1020.6	-2	ENE	6	os₀s₀	33	85	5	1500	St	10	–	10	•
Southampton (Calshot)	1023.1	-2	E	5	c	32	75	6	2500	StCu	9	–	9	0
Dungeness	1023.8	-3	ESE	3	c	30	97	7	1500	Cu	10	–	10	•
Guernsey (Fort George)	1020.9	-3	ESE	3	c	32	85	8	1500	Nb	10	–	10	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1031.9	-2	S'E	2	c	41	75	8	1500	StCu	10	–	10	•
Stornoway	1028.2	-1	S	2	c+	29	97	8	4000	Cu	9	–	9	1
Wick	1029.9	-2	SW	4	c	40	75	8	1500	St	10	–	10	1
Tiree	1026.2	0	S'E	4	c	39	85	9	2500	StCu	9	–	9	1
Nairn	1029.0	•	–	0	b-	20	85	7	1500	St	2	–	2	•
Aberdeen	1030.2	-1	SE'E	3	c	39	75	6	2500	StCu	9	–	9	0
Malin Head	1024.7	-2	ESE	4	c	40	92	7	5700	StCu	10	–	10	3
Renfrew	1027.5	-2	ENE	2	c	37	85	6	2500	StCu	10	–	10	•
Edinburgh (Inchkeith)	1028.1	-2	ESE	2	o	38	85	8	1500	St	10	–	10	1
Leuchars	1028.6	-1	E	3	c+	38	75	8	2500	StCu	10	–	10	•
Eskdalemuir	1027.5	-1	E'N	4	os₀	33	92	6	1500	St	10	–	10	•
Tynemouth	1027.2	-1	E	2	c/r	40	65	7	1500	Nb	8	–	8	2
Blacksod Point	1021.9	-1	SE'E	4	c	37	75	7	–	–	0	aCu	8	2
Donaghadee	1024.4	-1	SE	5	ic	40	75	8	4000	StCu	8	–	8	3
Birr Castle	1021.1	•	NE	1	cd₀	34	92	6	1500	Cu	3	aSt	10	•
Holyhead	1022.9	-1	E'S	3	c	35	85	6	1500	St	9	–	9	2
Liverpool (Bidston)	1023.3	-3	E	4	o	35	75	6	4000	St	10	–	10	•
Chester (Sealand)	1023.4	-3	E'S	2	os₀s₀	33	85	6	1500	St	10	–	10	•
Harrogate	1025.8	-1	E	2	o/s	33	97	5	2500	St	10	–	10	•
Spurn Head	1024.7	-1	E'S	6	c	37	75	8	4000	StCu	10	–	10	4
Birmingham (Edgbaston)	1023.2	-2	E	4	os₀	32	97	4	1500	St	10	–	10	•
Cranwell	1025.8	-1	ESE	3	os₀	33	97	6	1500	Nb	10	–	10	•
Gorleston	1024.8	-1	ESE	5	e	35	92	7	2500	Nb	10	–	10	4
Valentia (Cahirciveen)	1017.3	-3	E'N	4	bc	37	65	8	4000	StCu	3	–	3	2
Roches Point	1018.6	-2	E	3	crs₀	36	92	8	800	CuNb	9	–	9	4
Pembroke (St. Ann's H.)	1019.8	-1	NE	3	c	34	92	7	2500	StCu	10	–	10	1
Ross-on-Wye	1022.4	-1	E	3	o	31	92	6	800	St	10	–	10	•
Leafield	1022.4	-1	ESE	2	ors₀+	29	92	6	4000	St	10	–	10	•
Winchester (Worthy Dn)	1022.4	-2	ENE	3	c	29	75	7	1500	St	8	aSt	10	•
S. Farnborough	1022.5	-1	E'N	2	o	29	85	6	2500	St	10	–	10	•
London (Kew Obsy.)	1025.1	-1	E'S	2	o/s	32	75	5	800	St	10	–	10	•
Croydon	1022.7	-1	E'S	2	c	30	85	5	2500	St	6	aSt	10	•
Shoeburyness	1023.4	-1	SE'E	3	c	32	97	7	2500	StCu	7	aSt	10	•
Clacton-on-Sea	1025.3	-1	E	4	o	34	85	7	1500	St	10	–	10	3
Felixstowe	1024.3	-1	E	4	c	33	85	7	1500	StCu	10	–	10	3
Lympne	1022.7	-1	E'N	3	c	29	75	5	1500	St	10	–	10	•
Scilly (St. Mary's)	1016.1	-1	SSE	3	or	36	97	7	4000	Nb	10	–	10	2
Falmouth (Pendennis)	1017.7	-1	ESE	4	c	38	65	7	4000	StCu	10	–	10	2
Plymouth (Cattewater)	1019.4	-1	E	3	os	33	97	6	220	Nb	10	–	10	0
Portland Bill	1019.4	-1	NE'E	6	o	34	85	6	1500	St	10	–	10	6
Southampton (Calshot)	1021.6	-2	E	4	c	31	75	6	2500	StCu	10	–	10	0
Dungeness	1022.8	-1	ESE	3	c	32	97	7	1500	StCu	10	–	10	3
Guernsey (Fort George)	1019.8	-1	SE	4	c	32	75	7	2500	StCu	10	–	10	4

LONDON OBSERVATIONS. Day 7h-13h, Kew & Croydon. 9h-13h, Kensington. 8h-13h, other stations.

Station	Height of Station above M.S.L. in feet	Weather (24 Hours ended 7h) Morning	Afternoon	Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Night	Sunshine to Sunset, hrs.	Humidity 13h. G.M.T. % (Yesterday)	8h. G.M.T. % (To-day)	Visibility 8h
Kew	13	os₀s₀	cs₀m₀	om₀	32	31	29	0.1	Tr	0.0	•	•	
Croydon	244	os₀s₀m	cm₀	comps₀	31	30	29	0.1	Tr	0.0	•	–	
Greenwich (Royal Obsy.)	159	ocs₀s₀	css₀c	coms₀	31	30	28	0.3	Tr	0.0	78	85	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0 0	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	33	30	29	–	–	0 0	100	86	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	oos	o	•	32	31	-x-	Tr	–	•	•	97	•
Kensington Palace	80	o	os	•	31	31	30	–	(Tr)	•	(At 13h) 88	88	•
Hampstead Observatory	450	•	•	•	30	26	25	0.3	0.3	0.0	•	88	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.2	12h 5th	0.3	4h 6th

Kew Observatory Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 5th 17 h 15 m. to 6th 7 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 45	NIL	–
δ Ursae Minoris	13 45	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. 6th/7th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 / 8.5	11·59 / 11·59	15.52 / 15.54
Greenwich	8.7 / 8.7	12·6 / 12·6	16·5 / 16·6
Wick	9·2 / 9·2	12·18 / 12·19	15.34 / 15.36
Valentia	8·50 / 8·50	12.47 / 12.47	16.44 / 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 thunder.
u ugly threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r₀ = slight rain.
rr = continuous rain.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

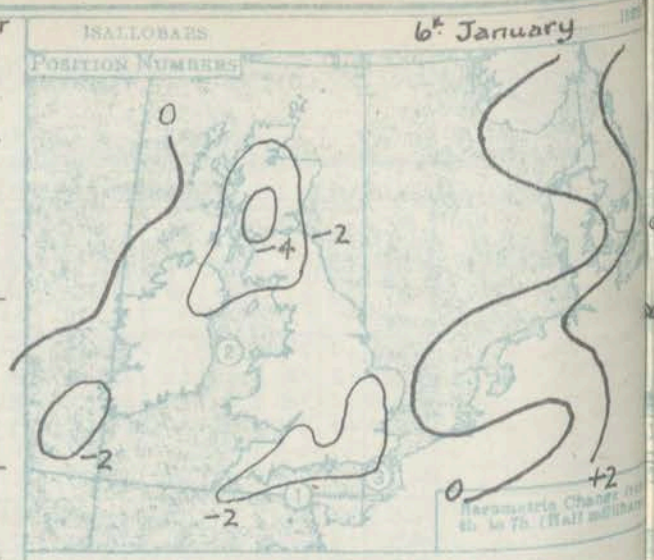
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 5th	Weather. 18h.-18h. 5th	Weather. 18h. 5th to 1h. 6th	Weather. 1h.-7h. 6th	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	c	c	c	cbcibr	42	40	•	–	–	0.2	4.30	0.0
Stornoway	bbcz	c	b-bc	b.bc	39	24	•	–	–	–	–	3.5
Wick	o	c	cbr.c	cbr.	41	39	•	–	–	1	24.00	•
Tiree	ocbc	bcc	cbcc	cbc	39	37	32	–	–	–	–	0.1
Nairn	bbc	bcbxc	bxbc	bc	24	19	•	–	–	–	–	0.7
Aberdeen	cd.smoff	offczo	c	cbr.cbc	39	38	34	0.3	<8.00	0.3	2.30	0.0
Malin Head	c	c	cb.cbcb	bcc	40	35	•	–	–	Tr	22.00	0.0
Renfrew	oxcm.	cmm.	cm.	cm.	38	35	33	–	–	–	–	0.0
Edinburgh (Inchkeith)	ir.bc	birco	ocbc	bccomid	41	37	32	0.2	<8.00	Tr	4.30	2.5
Leuchars	cir.	c	c	ccr	39	36	33	0.6	<8.00	0.4	6.30	0.0
Eskdalemuir	cis.c	cepso	cps.c	cois.m.	34	30	28	Tr.	<8.00	0.2	<21.00	0.0
Tynemouth	cir.	cir.	c	oir.	40	37	34	0.6	<8.00	0.6	3.30	•
Blacksod Point ...	bcc	c	c	c	38	35	•	–	–	–	–	•
Donaghadee	cprso	c	c	cirs	41	39	•	Tr.	9.00	0.3	2.30	•
Birr Castle	cm.	cid.	coid.	oddid	37	33	31	Tr.	16.30	0.5	<21.00	0.4
Holyhead	cbcc,pr.	cm.	is.om.	ocm.	39	35	34	Tr.	11.00	Tr	<21.00	0.0
Liverpool (Bidston) ...	ocm.	os.s.	m.s.o	ors.	36	32	31	Tr.	14.30	0.4	<21.00	0.0
Chester (Sealand) ...	cm.r.s.	om.is.	om.s.	om.rs	36	32	31	Tr.	9.00	0.1	<21.00	0.0
Harrogate	cofs.s.	ofois.	o	ofis.	33	32	31	1	<8.00	0.5	4.30	0.0
Spurn Head	cpro	cprc	cbrc	oirso	39	35	•	0.1	<8.00	0.5	22.00	0.0
Birmingham (Edgbaston)	mes.	mts.	ois.	oc	33	29	28	0.1	<8.00	0.1	<21.00	0.0
Cranwell	cd.s.	cos.	oid.	os.	35	30	30	0.4	<8.00	1	<21.00	0.0
Gorleston	oir.sq	ois.q	cq	cis.rq	36	32	32	Tr.	9.00	1	3.30	0.0
Valentia (Cahirciveen)	c	cbc	bc	bcc	38	34	33	–	–	–	–	0.0
Roches Point	cig	cirso	cirscq	cq	40	34	•	1	13.30	2	<21.00	•
Pembroke (St. Ann's H.)	c	c	c	cs.s.mq	37	31	•	–	–	Tr	3.30	0.0
Ross-on-Wye	ois.	o	odgo	gom.	34	29	28	Tr.	9.00	Tr	<21.00	0.0
Leafield	cps.cois.	ois.cors.	ors. c	c	31	26	26	0.1	<8.00	Tr.?	<21.00	0.0
Winchester (Worthy Dn.)	ccs.	cs.c	cs.c	ccs.	3:	28	27	~~0.1~~ Tr	11.00	Tr	22.00	0.0
S. Farnborough ...	ccis.	cis.om.	om.	om.rs.	30	29	28	0.1	11.00	Tr	6.30	0.0
London (Kew Obsy.) ...	ofs.s	cs.m.	om.	o	32	31	29	0.1	11.00	Tr	–	0.0
Croydon	os.s.m	cm.	con.ps	cm.x	31	30	29	0.1	11.00	Tr	24.00	0.0
Shoeburyness	oss	osso	o	os.	38	29	30	0.3	11.00	0.4	5.30	0.0
Clacton-on-Sea ...	cos	o	o	os	34	31	31	0.4	9.00	1	2.30	0.0
Felixstowe	cs.s.	c	c	csss.m	34	30	30	Tr.	9.00	1	1.30	0.0
Lympne	cps.em.	cm.	cm.	ccs.m	30	29	28	Tr.	11.00	Tr	6.30	0.0
Scilly (St. Mary's) ...	bcc	cor	ocir	cirs.	42	35	•	1	16.30	1	<21.00	2.5
Falmouth (Pendennis)	os.RSm.	cRSm.	c	crs.m.	39	34	•	5	11.00	2	2.30	0.0
Plymouth (Cattewater)	cs.m.bc	cossm.s	os.m.	os.r.	37	31	30	3	11.00	0.2	<21.00	1.3
Portland Bill	cos.s.m.	os.o3o	oz.	oz.	37	31	•	Tr.	9.00	–	–	•
Southampton (Calshot)	os.m.	ois.em.	c	c	34	31	29	Tr.	9.00	–	–	0.0
Dungeness	c	cex	cooz x	c	37	30	•	–	–	–	–	•
Guernsey	ois.c	c	c	c	34	31	•	Tr.	9.00	–	–	0.0



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	5th 10.00	Scotia	E	6	C	39	47
1	5th 12.00	St Helier	SE	4	S.	37	50
3	6th 2.00	Brighton	ENE	2	C+	38	50

GENERAL INFERENCE.

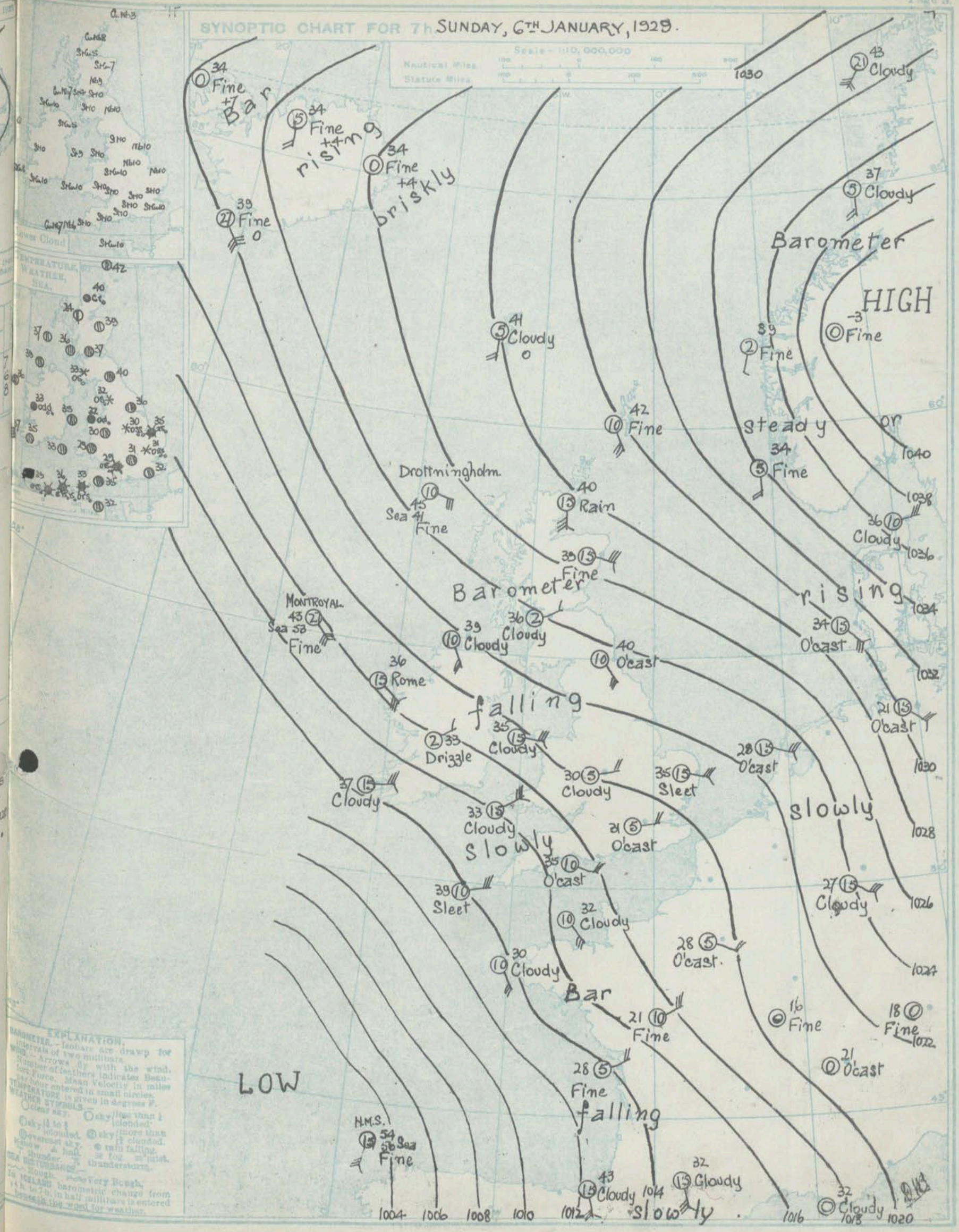
High pressure persists from Finland across Scandinavia and has extended to Iceland, while depressions on the Atlantic are moving southeast and spreading east. Cold cloudy weather with wintry precipitation will occur in all districts, but some fairer periods are probable in the extreme north.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 6th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Light to moderate easterly or southeasterly winds, fresh at times locally; cloudy occasional sleet or snow, mist locally; temperature varying little from freezing point.	Easterly winds and cold weather likely to continue for several days.
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light to moderate easterly or southeasterly winds; mainly cloudy, showers of sleet or snowl mist locally; cold, sharp night frist.	
13. A. W. Scotland B. N.W. Scotland	Light to moderate southeasterly winds; mainly fair; cold, sharp night frost.	
14. Mid-Scotland 15. N.E. Scotland	As 10 - 12.	
16. Orkneys and Shetlands	Light easterly or southeasterly winds; mainly cloudy, snow showers; cold, night frost.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate easterly or southeasterly winds; cloudy, occasional sleet or snow; cold, sharp night frost.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1200 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h SUNDAY, 6TH JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Bar rising briskly
Barometer HIGH steady or rising slowly
Barometer falling slowly
Bar falling slowly
LOW
Drottningholm.
Sea 41
Fine
MONTROYAL.
Sea 58
Fine
Rome
Drizzle
Cloudy
Rain
Sleet
O'cast
H.M.S.
Sea
Fine
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
1036
1038
1040
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean Velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.
Clear sky.
Sky less than ½ clouded.
Sky ½ to ½ clouded.
Sky more than ½ clouded.
Overcast sky.
Snow.
Hail.
Mist.
Rain falling.
Thunder.
Thunderstorm.
SEA BEHAVIOUR.
Rough.
Very Rough.
In ICELAND barometric change from 14 h. to 7 h. in half millibars is entered beneath the wind for weather.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....SUNDAY....6th....JANUARY.....1929. No...6....

Stations.	Height above M.S.L. in feet.	Observations at 1h. 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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. 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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	54	1031.8	0	SSW	2	c	42	75	8	1500	StCu	10	-	10	1029.1	-1	SE	3	bc/p	42	75	8	1500	CuNb	5	-	5	•
Stornoway	30	1026.9	-2	-	0	b	•	•	8	•	•	•	•	0	1025.3	-1	-	0	bc	28	97	7	4000	Cu	4	-	4	0
Wick	31	1022.2	-1	S	4	c	40	85	8	1500	CuNb	6	CiSt	10	1027.1	-2	S	4	c/pc	40	85	8	1500	CuNb	8	CiSt	10	3
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.4	0	SSE	4	bc	37	75	8	1500	CuNb	7	-	7	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.9	•	-	0	bc	245	85	7	2500	StCu	5	-	5	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.3	-2	ESE	4	bc	39	75	7	2500	StCu	7	-	7	1
Malin Head	81	1023.2	-2	E	4	bc-	39	92	7	4000	StCu	5	-	5	1021.2	-1	SE	3	c	39	85	7	5700	StCu	10	-	10	3
Renfrew	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.7	-2	ENE	1	c	36	85	6	2500	St	4	ASt	10	•
Edinburgh (Inchkeith)	160	1026.8	-2	E	3	bc+	37	85	9	1500	St	3	AC	5	1023.5	-3	E	3	o	37	92	8	1500	St	10	-	10	•
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.3	-5	E	4	c/r	37	92	8	2500	Nb	9	ASt	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.2	-2	NE	4	os.	33	97	6	1500	St	10	-	1	•
Tynemouth	47	1025.8	-2	E	3	c	39	65	8	1500	Cu	8	-	8	1023.1	-2	SE	3	o/r.	40	75	7	1500	Nb	10	-	10	4
Blacksod Point ...	18	1018.6	-2	SE'E	4	c	37	85	6	•	-	0	ASt	10	1018.2	0	SE'E	4	c	36	85	6	•	-	0	AC	8	2
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.1	-2	SE	5	crs	39	75	7	4000	StCu	8	-	8	6
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.7	•	NE	1	od	33	92	5	450	St	10	-	10	•
Holyhead	26	1020.9	-2	E'S	5	o	36	97	6	2500	St	10	-	10	1018.9	-1	E'S	4	c	35	85	6	2500	St	9	-	9	3
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.1	-1	ESE	3	od.	32	92	7	2500	St	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.1	-1	ESE	3	ors.	32	92	5	1500	St	10	-	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.7	-1	E	2	ofs.	32	97	3	1150	St	10	-	10	4
Spurn Head	20	1023.1	-1	E'S	5	c	37	85	7	4000	Nb	9	-	9	1020.[illegible]	-1	E'S	4	o	36	97	7	4000	Nb	10	-	10	•
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.[illegible]	-1	E	2	c	30	92	6	1500	StCu	10	-	10	•
Cranwell	238	1023.2	-2	SE'E	3	od.	31	97	6	1500	St	10	-	10	1021.6	-1	E'S	1	os.s.	30	97	5	1500	Nb	10	-	10	4
Gorleston	14	1023.9	-1	SE	4	c	34	92	7	2500	StCu	10	-	10	1020.3	-3	ESE	4	ors.	35	92	6	1500	Nb	10	-	10	•
Valentia (Cahireiveen)P	30	1016.1	-1	SE	3	o	38	97	8	-	St	10	-	10	1014.3	-2	E	4	c	37	75	8	4000	StCu	8	-	8	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.3	-1	NE	3	c	35	75	8	1500	StCu	10	-	10	1
Pembroke (St. Ann's H.)	150	1018.8	-1	NE	2	c	32	97	7	1500	StCu	10	-	10	1015.8	-1	NE	4	c	33	92	7	1500	StCu	10	-	10	2
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.3	-1	E	2	o	29	92	5	800	St	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.0	-2	E'N	3	o	27	92	6	4000	St	10	-	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.9	-1	NE'E	3	cs.	29	85	7	1500	St	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.1	-2	E	2	ors.	29	97	6	2500	St	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	32	•	•	•	•	•	•	•	1019.4	-1	E'S	2	o	31	75	7	1500	St	10	-	10	•
Croydon	244	1021.1	-2	E	2	c/ps	30	85	5	1500	St	10	-	10	1019.4	-1	E'S	2	c	30	85	6	2500	StCu	5	ASt	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.8	-3	SE	2	os.s.	31	97	7	1500	Nb	10	-	10	•
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.6	-3	ESE	4	os.s.	31	92	6	800	St	10	-	10	3
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.8	-1	ESE	3	cs.	32	97	6	800	Nb	10	-	10	3
Lympne	350	1021.0	-2	E'N	3	c	30	75	6	1500	St	10	-	10	1019.2	-2	E'N	2	cs.	30	75	6	1500	Nb	10	-	10	•
Scilly (St. Mary's) ...	203	1014.8	-2	E'S	4	crs	38	75	7	4000	CuNb	10	-	10	1013.9	-1	E	3	cs.	39	85	7	4000	CuNb	10	-	10	4
Falmouth (Pendennis)	200	1016.2	-2	ESE	3	c	37	65	7	4000	StCu	10	-	10	1014.1	-2	SE'E	3	c/srs	36	85	6	1500	Nb	6	ASt	10	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.7	-1	ENE	3	ors.	33	85	7	1500	St	10	-	10	0
Portland Bill	32	1018.1	-1	E	5	o	35	75	6	2500	St	10	-	10	1016.3	-2	ESE	4	o	35	75	6	2500	St	10	-	10	4
Southampton (Calshot)	10	1019.6	-2	ESE	5	c	33	75	7	2500	StCu	10	-	10	1018.2	-2	E'N	4	c	32	85	6	2500	StCu	10	-	10	0
Dungeness	20	1021.4	-2	ESE	2	c	32	75	6	-	-	0	ASt	10	1019.0	-2	ESE	3	c	32	85	7	2500	StCu	10	-	10	3
Guernsey (Fort George) P	208	1017.8	-2	ESE	2	c+	32	92	6	4000	StCu	10	-	10	1017.2	-1	SE	3	c	32	85	7	2500	StCu	10	-	10	4

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. to 9h.	Temperature. Max. 9h.-17h.	Rainfall.† Night 17h.-9h.	Rainfall.† Day 9h.-17h.	Sunshine. Sunrise to Sunset.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	35	41	1	-	0.0
Douglas (I. o. M.) ...	ors	od	36	58	-	Trace	0.0
Llandudno ...	c	c	33	37	-	-	0.0
Colwyn Bay ...	o	o	33	37	-	-	0.0
Rhyl...	o	o	32	37	-	-	0.0
Wallasey	o	os.o	31	36	-	Trace	0.0
Southport	o	o	33	36	-	-	0.0
Blackpool	c	o	31	36	-	-	0.0
Ilkley	ogr	so	30	36	-	0.4	0.0
Cleethorpes... ...	oso	oso	35	38	1	0.2	0.0
Skegness	o	o	35	38	-	-	0.0
Aberystwyth ...	xc	c	34	36	-	-	0.0
Bath	c9	c9	33	33	Trace	-	0.0
Cheltenham‖ ...	os.	o	32	35	0.3	-	0.0
Leamington Spa ...	c	c	31	36	-	-	0.0
Lowestoft	cps	cpsc	33	36	-	Trace	0.0
Harwich & Dovercourt	ocs.	oc	32	34	-	(Trace)	0.0
Maldon	o	so	31	33	-	1	0.0
Southend	ois	ois	31	32	-	0.2	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	os.bc	bc	34	36	-	-	3.3
Penzance	c9	ogprs	33	38	-	2	0.0
Paignton	oir.spg	os.g	35	38	-	Trace	0.0
Torquay	oops.	prsops	35	38	-	Trace	0.0
Jersey	psc	c	30	33	0.2	-	0.0
Weymouth	s.oc	co	33	33	-	Trace	0.0
Bournemouth ...	o	o	29	32	-	-	0.0
Ventnor ...	os.	os.	30	32	Trace	Trace	0.0
Portsmouth (S'thsea)	o	o	31	31	0.3	-	0.0
Bognor	ocs.	ocs.	30	32	-	(Trace)	0.0
Littlehampton ...	c	ccs.	30	30	-	Trace	0.0
Worthing	cis.	cis.	30	31	Trace	Trace	0.0
Brighton	cosco	co	30	32	Trace	Trace	0.0
Eastbourne‖	o	o	31	36	0.1	-	0.0
Hastings‖	o	o	29	35	0.1	-	0.0
Folkestone	o	o	28	31	Trace	-	0.0
Dover	os.c	co	30	32	Trace	Trace	0.0
Tunbridge Wells ...	opso	o	28	29	Trace	Trace	0.0
Ramsgate	ocps	o	30	32	-	Trace	0.1
Margate	cs.	c	30	33	-	Trace	0.0
Deal	o	s.o	30	(32)	-	Trace	0.0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,518 Monday, 7th January, 1929.

Observations at 13h. G.M.T. 6th

Stations (For heights see p. 4)	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground
Lerwick	1030.8	+1	SE	2	c	43	85	8	1500	StCu	5	ASt	10	•
Stornoway	1024.8	-1	SE	2	c+	37	75	7	4000	StCu	10	–	10	•
Wick	1027.6	0	S	4	cr_0	40	92	8	1500	CuNb	8	ASt	10	•
Tiree	1022.2	-1	SE	4	c	39	85	7	2500	StCu	10	–	10	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1026.2	-1	ESE	5	c/pr_0	40	65	7	2500	Cu	10	–	10	1
Malin Head	1020.9	-1	SE	2	cjp	38	97	7	4000	CuNb	8	ASt	10	•
Renfrew	1022.5	-2	E	3	c	37	85	6	2500	StCu	10	–	10	9
Edinburgh (Inchkeith)	1023.3	-2	E	4	or_0	38	92	8	1800	Nb	10	–	10	•
Leuchars	1023.4	-3	E	4	cr_0	40	85	7	1500	Nb	8	ASt	9	2
Eskdalemuir	1021.6	-3	NE	4	o	34	85	7	1500	StCu	10	–	10	7
Tynemouth	1021.3	-2	E	3	$oh_0(r)$	39	92	7	1500	Nb	10	–	10	•
Blacksod Point	1018.6	0	ESE	4	c	37	85	7	•	–	0	ASt	10	•
Donaghadee	1020.7	-2	SE	5	crs_0	38	85	7	4000	Nb	8	–	8	•
Birr Castle	1018.2	•	NE	1	[illegible]	33	85	5	450	St	10	–	10	•
Holyhead	1018.7	-1	E'S	1	cs_0s_0	32	97	4	1500	Nb	7	ASt	10	7
Liverpool (Bidston)	1018.9	-2	ESE	3	cs_0s_0	32	92	5	800	St	8	ACu	10	•
Chester (Sealand)	1019.1	-2	E'S	2	crs_0	32	92	4	1500	St	9	–	9	7
Harrogate	1019.7	-1	E	1	os_0s_0	33	92	2	<150	St	10	–	10	•
Spurn Head	1018.4	0	SE	5	c	36	97	7	4000	CuNb	7	ASt	10	•
Birmingham (Edgbaston)	1019.4	-1	SSE	1	cs_0s_0	30	92	5	1500	Nb	9	–	9	7
Cranwell	1021.2	+1	SE	1	os_0	31	97	5	800	Nb	10	–	10	7
Gorleston	1021.0	+1	S'E	5	os_0	35	92	6	1500	Nb	10	–	10	•
Valentia (Cahirciveen)	1014.9	-1	E	2	bc	36	75	7	1500	Cu	1	Ci	4	1
Roches Point	1015.5	-1	NE	3	oss	33	97	3	800	Nb	10	–	10	•
Pembroke (St. Ann's H.)	1015.7	0	E	3	cs_0s_0	33	92	4	1500	StCu	10	–	10	•
Ross-on-Wye	1018.9	-1	E'N	2	os_0	30	92	6	800	Nb	10	–	10	3
Leafield	1018.8	0	ESE	2	os_0s_0	29	92	5	2500	St	10	–	10	7
Winchester (Worthy Dn.)	1018.6	-1	E'N	3	ors_0s_0	30	92	6	450	St	10	–	10	9
S. Farnborough	1018.6	-1	E	1	os_0s_0	30	92	4	800	St	10	–	10	9
London (Kew Obsy.)	1019.6	0	ESE	2	ors_0	31	85	5	1500	St	10	–	10	3
Croydon	1019.7	0	E	2	os_0s_0	30	97	4	1500	St	10	–	10	3
Shoeburyness	1020.0	0	SE	3	c	32	92	7	2500	Nb	6	ASt	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1020.7	0	SSE	3	c	33	75	7	800	StCu	10	–	10	7
Lympne	1019.6	0	E'S	4	os_0	30	75	6	1500	St	10	–	10	7
Scilly (St. Mary's)	1014.0	0	SSE	4	c	39	85	7	4000	StCu	10	–	10	•
Falmouth (Pendennis)	1014.7	0	SE'E	3	c	38	75	7	2500	Nb	5	ASt	10	•
Plymouth (Cattewater)	1016.1	0	E	4	os_0	33	85	6	2500	Nb	10	–	10	7
Portland Bill	1016.5	0	SE	4	cs_0	35	85	6	1500	St	8	ASt	10	•
Southampton (Calshot)	1018.1	0	E'S	3	os_0s_0	33	85	6	1500	Nb	10	–	10	7
Dungeness	1019.6	0	SE	3	c	32	85	7	2500	StCu	10	–	10	•
Guernsey (Fort George)	1017.1	-1	SE	3	c	32	65	7	2500	StCu	10	–	10	•

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1031.1	0	SE	3	cjp	41	85	8	1500	CuNb	5	ASt	10	•
Stornoway	1029.7	0	ESE	6	bc	39	75	7	4000	Cu	5	–	5	5
Wick	1026.9	-1	SE	4	cr_0	41	85	8	1500	Nb	5	CSt	8	3
Tiree	1022.3	0	ENE	4	bc	40	75	8	2500	StCu	6	–	6	1
Nairn	1029.5	•	E	2	c+	35	85	8	1500	St	8	–	8	•
Aberdeen	1025.5	0	SE'E	5	cr_0	38	75	7	1500	Nb	10	–	10	4
Malin Head	1020.6	+1	ESE	3	$ch_0(r)$	40	75	7	4000	CuNb	9	–	9	2
Renfrew	1021.9	0	ENE	2	c	36	92	6	1500	St	10	–	10	•
Edinburgh (Inchkeith)	1023.1	0	E	4	o	37	92	8	1500	St	10	–	10	1
Leuchars	1023.3	+1	ESE	3	ors_0	36	92	7	1500	Nb	10	–	10	
Eskdalemuir	1021.9	+2	E	4	os_0	33	92	6	800	St	10	–	10	•
Tynemouth	1023.2	+3	SSE	3	$oh_0(r)$	37	85	7	1500	Nb	10	–	10	4
Blacksod Point	1018.5	+1	ESE	4	c	36	92	7	•	–	0	ASt	10	5
Donaghadee	1020.8	+2	SE	4	crs_0	39	85	6	4000	Nb	9	–	9	4
Birr Castle	1018.5	•	NE	1	o	32	85	5	450	St	10	–	10	•
Holyhead	1019.9	+2	E'S	3	bc	33	85	6	–	–	0	ACu	5	1
Liverpool (Bidston)	1021.3	+2	SE	2	c	32	85	5	2500	StCu	10	–	10	•
Chester (Sealand)	1020.6	+3	–	0	o	31	92	5	1500	St	10	–	10	•
Harrogate	1022.7	+3	SE	1	o	31	97	5	2500	St	10	–	10	•
Spurn Head	1022.1	+2	SSE	4	o	35	85	6	4000	Nb	10	–	10	4
Birmingham (Edgbaston)	1021.2	+3	SE	2	mmo	30	97	4	1500	St	10	–	10	•
Cranwell	1022.4	+3	SE'E	2	o	30	97	5	1500	St	10	–	10	•
Gorleston	1022.2	+2	SE	4	c	36	85	7	2500	Nb	5	ASt	10	1
Valentia (Cahirciveen)	1017.1	+3	E	1	bc	36	85	8	1500	St	4	–	4	3
Roches Point	1017.4	+3	NE	3	oss	33	97	3	800	Nb	10	–	10	4
Pembroke (St. Ann's H.)	1017.6	+2	E	3	c	34	92	6	1500	StCu	10	–	10	2
Ross-on-Wye	1020.5	+2	E'N	2	o	30	97	6	800	St	10	–	10	•
Leafield	1020.6	+2	ESE	2	os_0	29	97	5	2500	St	10	–	10	•
Winchester (Worthy Dn.)	1020.0	+2	ENE	1	[illegible]	29	85	7	1500	St	8	ASt	10	•
S. Farnborough	1020.2	+3	E	2	os_0	29	92	6	800	St	10	–	10	•
London (Kew Obsy.)	1021.1	+2	ESE	2	o	32	75	5	1500	St	10	–	10	•
Croydon	1020.9	+2	E'S	2	o	30	85	5	1500	St	10	–	10	•
Shoeburyness	1020.4	+1	SE	4	c	32	97	7	2500	Nb	7	ASt	10	•
Clacton-on-Sea	1021.3	+1	SE	4	o	34	85	6	2500	St	10	–	10	
Felixstowe	1021.5	+1	ESE	3	c	34	75	7	800	StCu	10	–	10	3
Lympne	1020.8	+2	E	4	o	30	65	6	1500	St	10	–	10	•
Scilly (St. Mary's)	1015.5	+2	SE	4	cr_0r_0	37	97	7	4000	Nb	10	–	10	4
Falmouth (Pendennis)	1016.9	+3	SE	3	c	39	75	7	4000	StCu	6	CSt	10	1
Plymouth (Cattewater)	1018.2	+3	E	2	b-	32	85	6	2500	St	1	–	1	0
Portland Bill	1019.9	+2	NE	3	o	34	85	6	1500	St	10	–	10	1
Southampton (Calshot)	1019.6	+2	E'S	4	os_0	32	75	6	1500	St	10	–	10	0
Dungeness	1020.7	+2	SE	2	c	32	85	7	2500	StCu	10	–	10	2
Guernsey (Fort George)	1018.6	+2	SE	2	c	32	75	7	2500	StCu	10	–	10	1

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Min. on Grass °F.	Rainfall† mm. Day	Rainfall† mm. Night	Sunshine to Sunset hrs.	Humidity 18h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility§ 9h
(24 Hours ended 9h.)													
Kew	18	$o1s_0$	ghf_0oh_0	os_0b_0c	32	30	29	Tr	Tr	0.0	•	•	4
Croydon	264	[illegible]	os_0m	[illegible]	31	30	28	0.1	Tr	0.0	•	•	3
Greenwich (Royal Obsy.)	149	~~ofs₀~~	~~ofofs~~	~~orfoof~~	31	29	28	Tr	Tr	0.0	89	90	3
City (Bunhill Row)	90	cs_0s_0	os_0fs_0	ors_0of	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	32	30	28	–		0.0	91	91	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	of	fo	•	31	30	–	Tr	–	•	•	96	•
Kensington Palace	80	ors	o	•	32	30	29	Tr	–	•	(At 18h)	89	•
Hampstead Observatory	450	•	•	•	30	26	25	Tr	Tr	0.0	•	96	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.0	11hrs 6th	<0.3	6hrs 7th

Kew Observatory Max.	Time.	Min.	Time.
0.5	13hrs 6th	0.1	5hrs 7th

Pole Star Record at Greenwich Obsy.

Exposure from 6th 17 h. 15 m. to 7th 07 h. 00 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13 45	NIL	NIL
δ Ursae Minoris	13 45	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.

7th & 8th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8. 5	11.59	15.54
	8. 5	12.00	15.55
Greenwich	8. 7	12. 6	16. 6
	8. 6	12. 7	16. 8
Wick	9. 2	12.19	15.36
	9. 1	12.19	15.38
Valentia	8.50	12.47	16.45
	8.49	12.48	16.47

Beaufort Notation of Weather.

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

SYMBOLS.

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

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

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

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

§ Telegraphic Code for Surface Visibility.

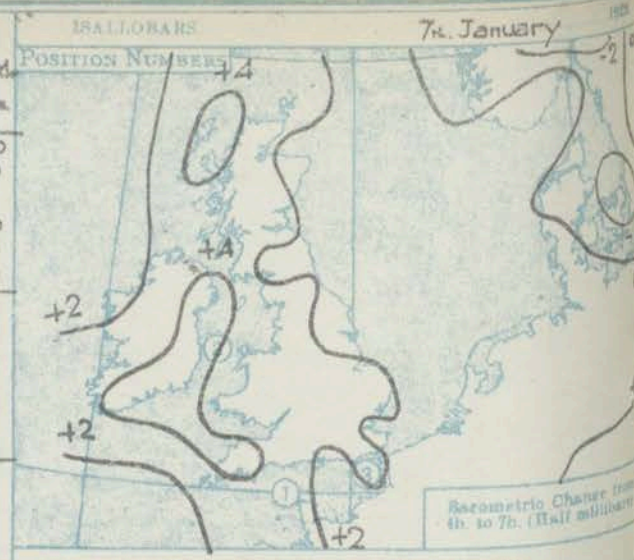
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. GMT	Weather. 18h.-18h. GMT	Weather. 18h GMT to 18h. GMT	Weather. 18h.-7h. GMT	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 GMT Hours.
Lerwick	bcc	cip.r	cor	orricipg	43	40	•	1	14·30	3	<21.00	0.0
Stornoway	bcc	cbc	c	c	39	37	•	–	–	–	–	0.0
Wick	cir.	cir.	cir.a	or.	42	39	•	0.6	<0800	0.5	<21.00	•
Tiree	co	ocpc	co	cpro	40	37	35	–	–	2	2.30	0.0
Nairn	bc	bcspc	c	o d.	36	35	•	0.1	16.30	Tr	3.30	1.0
Aberdeen	bcp.r	cirh.	oir.	oirm.	41	37	34	1	11.00	1	<21.00	0.0
Malin Head	cih.r	cihr.	cihscis.	cis.c	41	35	•	2	0900	1	<21.00	0.0
Renfrew	cep.c	cz.p.	cp.m.	o m.	38	34	32	Tr	11.00	Tr	<21.00	0.0
Edinburgh (Inchkeith)	oir.	olr.o	oidpd.	od.sis.	39	34	33	1	<0800	0.1	<21.00	0.0
Leuchars	c,cir.rs.c	cirrors.	or.s.r.o	od.d.m.	40	35	34	2	0900	1	<21.00	0.1
Eskdalemuir	ops.c	cois.m.	ois.id.m.	oirs.m.	34	30	29	0.2	<0800	0.2	<21.00	0.0
Tynemouth	oir.h.	oir.h	oirhd	oi d.	41	34	32	2	0900	0.2	<21.00	•
Blackcod Point ...	c	c	c	c	37	34	•	–	•	–	•	•
Donaghadee	cirs.	cir.s.	ir.s.c	cp.o	41	37	•	2	<0800	0.3	<21.00	•
Birr Castle	o d.d.	om.eq	ocxm.	cxm.	33	23	11	0.4	<0800	–	–	0.0
Holyhead	c.s.s.m.	s.s.bcm.	bccm.	c o m.	35	33	30	0.4	11.00	–	–	0.0
Liverpool (Bidston) ...	d.s.ms	s.cm	opr.s	o m.	32	31	29	1	0900	Tr	22.00	0.0
Chester (Sealand) ...	omss,rs.	rs.cmom.	cm.	c m.	33	30	28	1	0900	–	–	0.0
Harrogate	ofss.s.	s.s.ofo	o	o	33	30	29	1	<0800	–	–	0.0
Spurn Head	odorc	cps.o	ops.od.	ops.o	38	33	•	2	<0800	Tr	–	0.0
Birmingham (Edgbaston)	cos.s.	co	c	ofs.	30	29	28	1	<0800	Tr	6.30	0.0
Cranwell	os.s	os.,o	oim.	ofs.c	33	29	28	1	<0800	0.5	–	0.0
Gorleston	ois.q.	ocq	cq	oq	36	34	33	0.6	<0800	–	–	0.0
Valentia (Cahirciveen)	Cbc	bcc	b	bcbx	37	27	23	–	–	–	–	3.3
Roches Point	cq oss	os.s	osboois	oisbc	35	33	30	(2)	09.00	4	<21.00	•
Pembroke (St. Ann's H.)	cs.s.m	cs.s	cbcc	c	35	31	•	0.5	11.00	–	–	0.0
Ross-on-Wye	oos.	s.oq	qid.o	s.o m	30	29	28	Tr	12.30	Tr	<21.00	0.0
Leafield	os.s.	s.sis.	ois.ri.	os.	31	27	27	0.4	<0800	0.1	<21.00	0.0
Winchester (Worthy Dn.)	ors.rs.m	crs.	crs.	crs.	30	29	27	0.3	<0800	0.1	<21.00	0.0
S. Farnborough ...	orssm.	os.om.rss.	ois.m.	ois.m.	30	29	28	0.2	<0800	0.2	<21.00	0.0
London (Kew Obsy.) ...	ois.	oms.om.	om.p.	o m.	32	30	29	Tr	0900	Tr	<21.00	0.0
Croydon	cm.ms.s.	os.m	om.is.	om.is.m	31	30	28	0.1	0900	Tr	<21.00	0.0
Shoeburyness	os.	o	o	o	34	27	26	Tr	<0800	–	–	0.0
Clacton-on-Sea ...	om.o	o	o	oc	34	33	30	1	<0800	–	–	0.0
Felixstowe	cs.s.z.	c	c	cs.m.	34	32	31	0.5	<0800	Tr	5.30	0.0
Lympne	os.s.m.	os.m.	os.m.	om.c	31	25	19	Tr	<0800	Tr	<21.00	0.0
Scilly (St. Mary's) ...	cr.c	cor	cor	oro	40	37	•	0.5	<0800	1	<21.00	0.3
Falmouth (Pendennis)	crssm	crs.c	cbc	bc	39	31	•	1	<0800	–	–	0.0
Plymouth (Cattewater)	os.m.	os.m.b	bm.	bm.x	34	26	18	Tr	<0800	Tr	–	0.0
Portland Bill	cos.z.	os.oz.	oz.	o z.	36	31	•	Tr	11.00	–	–	•
Southampton (Calshot)	om.s.sq.	ois.sq	ois.m.	os.cm.	33	31	29	0.1	0900	Tr	<21.00	0.0
Dungeness	cc	cc	c	cc bc	33	31	•	–	–	–	–	•
Guernsey	cis.	c	o	cm.	32	32	•	Tr	11.00	–	–	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Barometer.
3	6th 02.00	BRIGHTON	ENE	2	C+	38	45	7
3	7th 02.00	DIEPPE	ENE	2	C	37	48	7

GENERAL INFERENCE.

Pressure continues high to the east and north and low to the west and southwest of the British Isles. Weather will continue cold and mainly cloudy with local wintry showers but some fairer periods are probable in most districts. Fog will occur locally and sharp frost at night.

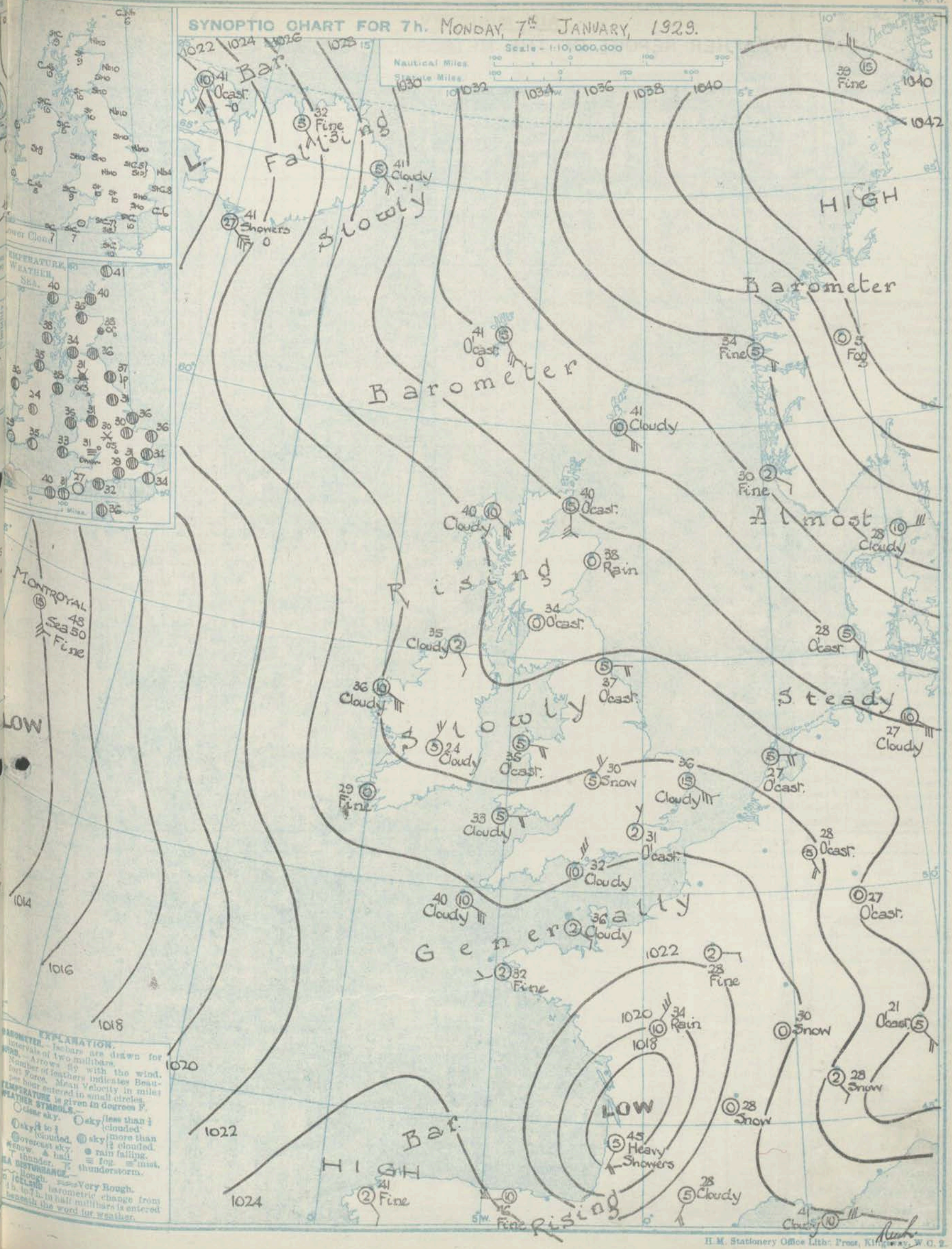
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 7th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light to moderate easterly winds, mainly cloudy, slight local wintry showers, cold, sharp night frost; local mist or fog.	Easterly winds and cold weather continuing.
5. S.W. England 6. South Wales	Light to moderate easterly winds, mainly fair, cold, sharp night frost; local mist or fog.	
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	Light to moderate east or southeast winds, mainly cloudy; slight local wintry showers; cold, sharp night frost; local mist or fog.	
15. N.E. Scotland 16. Orkneys and Shetlands	Light or moderate southeast winds, mainly cloudy; cold, sharp night frost; local mist or fog.	
17. N.W. Ireland 18. N.E. Ireland	As 7 - 14.	
19. S.E. Ireland 20. S.W. Ireland	As 5 - 6.	

SCR

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0950 G.M.T. G. C. SIMPSON, F.R.S., Director.

‡ For code see page 1

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



EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Arrows fly with the wind. Number of feathers indicates Beaufort Force. Mean Velocity in miles per hour entered in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
clear sky. sky less than ½ clouded. sky ½ to ½ clouded. sky more than ½ clouded. overcast sky. rain falling. snow. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—
Rough. Very Rough.
ICELAND barometric change from 1h. to 7h. in half millibars is entered beneath the word for weather.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 7th January 1929. No. 7

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

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	64	1032·4	+2	SE	4	ocr	41	92	7	1500	Nb.	10	-	10
Stornoway	30	1033·2	0	SE	5	c	*	*	7	*	*	*	*	8
Wick	61	1029·0	+2	S	4	o	42	75	8	1500	St.	10	-	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	69	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	61	1022·7	+2	SSE	1	crs₀	36	92	7	4000	Cu.Nb	10	-	10
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	1025·9	+3	ESE	3	od₀d₀	35	92	7	1500	Nb.	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1026·8	+2	S	1	od₀	34	92	6	1500	Nb.	10	-	10
Blacksod Point	16	1022·8	+2	-	0	c	35	92	6	*	-	0	A.St.	9
Donaghadee	49	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	1023·4	+3	ESE	3	c	34	75	6	2500	St.	9	A.St.	10
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1022·7	0	E	5	od₀d₀	35	92	7	2500	Nb.	10	-	10
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1024·1	+1	NEN	2	os₀	31	97	5	1500	St.	10	-	10
Gorleston	14	1023·6	0	SSE	3	c	35	92	7	-	-	0	A.St.	10
Valentia (Cahirciveen) ᴾ	30	1023·4	+3	SE	2	b	39	97	9	-	-	0	-	0
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1022·8	+3	E	2	c+	34	92	7	2500	St.Cu.	9	-	9
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	257	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	31	*	*	*	*	*	*	*
Croydon	244	1022·9	+1	ENE	1	os₀	30	85	6	1500	St.	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1022·2	+2	NW	1	o	29	85	6	1500	St.	10	-	10
Scilly (St. Mary's)	163	1019·6	+2	SSE	3	of	38	97	7	4000	Nb.	10	-	10
Falmouth (Pendennis)	200	1020·4	+3	ESE	3	bc-	39	75	8	4000	St.Cu.	5	-	5
Plymouth (Cattewater)	88	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1021·1	+2	NE	4	o	34	75	6	1500	St.	10	-	10
Southampton (Calshot)	10	1021·9	+2	ENE	3	os₀	31	75	6	1500	St.	10	-	10
Dungeness	20	1021·8	+2	S	1	c	33	85	7	1500	St.Cu.	10	-	10
Guernsey (Fort George) ᴾ	298	1021·0	0	NE	2	c+	33	85	7	4000	St.Cu.	10	-	10

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1033·0	+2	SE	3	c	41	85	7	1500	Cu.Nb	6	a St	10	*
Stornoway	1028·1	+4	SE	3	c	40	75	7	4000	St Cu	9	-	9	3
Wick	1030·0	+2	S	4	oc	40	92	8	1500	Nb	10	-	10	3
Tiree	1027·3	+3	SSE	4	c	38	85	7	1500	Cu.Nb	10	-	10	1
Nairn	1028·5	*	-	0	c	35	85	7	1500	St	9	-	9	*
Aberdeen	1029·3	+1	-	0	oc₀	38	92	6	1500	Nb	10	-	10	1
Malin Head	1027·6	+3	SSE	1	c	35	85	7	5700	St Cu	10	-	10	2
Renfrew	1028·6	+3	-	0	o	34	97	5	1500	St	10	-	10	*
Edinburgh (Inchkeith)	1027·5	+2	NNE	3	o	36	97	7	1500	St	10	-	10	2
Leuchars	1028·4	+3	NE	1	od₀d₀	37	97	5	450	St	10	-	10	*
Eskdalemuir	1028·5	+1	NNE	3	ocs₀	31	97	6	450	St	10	-	10	*
Tynemouth	1027·7	+2	E	2	o/p	37	75	7	1500	Nb	10	-	10	4
Blacksod Point	1026·0	+2	ESE	3	c	36	85	6	*	-	0	a St	10	2
Donaghadee	1027·0	+4	SE	3	c-	38	65	7	4000	St Cu	8	-	8	3
Birr Castle	1026·4	*	NE	2	c-	24	92	6	450	St	8	-	8	*
Holyhead	1026·8	+3	E	2	°o	35	75	6	2500	St	10	-	10	0
Liverpool (Bidston)	1027·2	+3	NNE	1	o	31	92	6	2500	St	10	-	10	*
Chester (Sealand)	1026·2	+3	NW	2	c	31	92	5	4000	St Cu	10	-	10	*
Harrogate	1027·4	+1	-	0	o	31	92	5	2500	St	10	-	10	*
Spurn Head	1025·0	+1	E'S	4	o	36	85	7	4000	Nb	10	-	10	3
Birmingham (Edgbaston)	1026·5	+2	NE	2	os₀	30	97	3	1500	Nb	10	-	10	*
Cranwell	1026·2	+3	NNE	1	c	30	97	6	1500	St	10	-	10	*
Gorleston	1025·3	+1	ESE	4	c	36	85	7	2500	Nb	4	a St	10	1
Valentia (Cahirciveen) ᴾ	1029·9	+4	-	0	b	29	92	8	-	-	0	-	0	2
Roches Point	1024·9	+4	NE	3	bc	35	85	8	1500	Cu Nb	5	-	5	4
Pembroke (St. Ann's H.)	1024·6	+3	E	2	c	33	85	7	2500	St Cu	9	-	9	2
Ross-on-Wye	1025·6	+2	N'W	2	nm₀	31	92	4	450	St	10	-	10	*
Leafield	1024·4	+2	N'W	1	os₀	28	97	6	4000	St	10	-	10	*
Winchester (Worthy Dn.)	1024·4	+2	N	2	c/s	29	85	7	800	St	10	-	10	*
S. Farnborough	1024·6	+3	NE	2	o	29	92	5	800	St	10	-	10	*
London (Kew Obsy.)	1024·7	+2	NNE	1	o	31	92	6	1500	St	10	-	10	*
Croydon	1024·5	+2	-	0	nmo	30	97	4	2500	St	10	-	10	
Shoeburyness	1025·0	+1	-	0	c	29	97	6	1500	St	10	-	10	*
Clacton-on-Sea	1024·2	+2	SSE	3	c	34	85	7	4000	St Cu	8	-	8	2
Felixstowe	1025·1	+2	-	0	cs₀	33	92	6	800	Nb	10	-	10	0
Lympne	1023·8	+2	N'E	3	b-	25	85	6	-	-	0	a Cu	2	*
Scilly (St. Mary's)	1023·8	+2	SE'E	3	c	40	85	7	4000	St Cu	7	a Cu	9	2
Falmouth (Pendennis)	1024·6	+4	NNE	2	bc+	31	75	7	4000	St Cu	7	-	7	1
Plymouth (Cattewater)	1025·2	+4	-	0	b	27	92	6	-	-	0	-	0	0
Portland Bill	1023·6	+3	NE	3	c	32	85	6	1500	St Cu	10	-	10	1
Southampton (Calshot)	1024·4	+3	NE	3	c	31	85	6	2500	St Cu	10	-	10	0
Dungeness	1023·7	+2	NE	2	bc-	34	92	7	1500	Cu	6	-	6	2
Guernsey (Fort George) ᴾ	1023·2	+3	ESE	1	c	36	75	6	1500	St Cu	10	-	10	0

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 21h to 9h. 6th (4)	Temperature Max. 9h.-17h. 6th (5)	Rainfall Night 17h.-9h. 5-6 (6)	Rainfall Day 9h.-17h. 6th (7)	Sunshine Sunrise to Sunset 6th (8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	cPr	cPr	37	41	1	0·3	0·0
Douglas (I. o. M.)	o	ops	35	37	0·3	5	0·0
Llandudno	cs₀	cocc	32	33	Trace	Trace	0·0
Colwyn Bay	oco	co	32	34	–	–	0·0
Rhyl	s	o	32	37	–	0·3	0·0
Wallasey	ss	sorso	31	34	Trace	1	0·0
Southport	os	so	✚33	33	0·4	1	0·0
Blackpool	os	os	33	34	0·5	1	0·0
Ilkley	os	ors	32	34	1	3	0·0
Cleethorpes	oso	oso	32	34	2	1	0·0
Skegness	os	so	33	35	2	Trace	0·0
Aberystwyth	x₀sc	bco	?	35	–	–	0·0
Bath	cs₀s₀	cs₀	29	31	Trace	1	0·0
Cheltenham‡	o	os₀	29	31	–	Trace	0·0
Leamington Spa	s	o	29	33	1	–	0·0
Lowestoft	cbs	c	32	35	2	0·3	0·0
Harwich & Dovercourt	ocs	oc	31	34	0·3	(Trace)	0·0
Maldon	so	o	29	32	1	–	0·0
Southend	o	o	30	32	0·4	–	0·0
Bude	x₀soc	ocs₀	34	36	–	(Trace)	0·0
Penzance	c	cq	33	41	0·3	–	0·0
Paignton	o	ors₀pc	34	36	2	Trace	0·0
Torquay	s₀po	os₀po	33	36	1	0·2	0·0
Jersey	c	c	29	32	–	–	0·0
Weymouth	s₀o	qoz₀	30	32	–	Trace	0·0
Bournemouth	o	rs	28	31	0·3	0·3	0·0
Ventnor	xo	o	31	33	–	–	0·0
Portsmouth (S'thsea)	ogm	ogm	29	33	–	–	0·0
Bognor	ois₀	ois₀	29	34	–	–	0·0
Littlehampton	c	c	29	33	–	–	0·0
Worthing	cis₀	cis₀	29	34	–	Trace	0·0
Brighton	oco	c	29	33	–	–	0·0
Eastbourne‡	o	o	32	33	–	–	0·0
Hastings‖	o	o	31	33	–	–	0·0
Folkestone	osis₀	o	28	32	Trace	Trace	0·0
Dover	ois₀	ois₀	30	33	0·2	Trace	0·0
Tunbridge Wells	o	opso	29	30	Trace	Trace	0·0
Ramsgate	o	o	30	33	–	–	0·0
Margate	c	c	30	33	0·2	–	0·0
Deal	o	o	30	33	1	–	0·0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24.519. Tuesday, 8th January 1929. Page 1.

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

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1033.7	-2	SE	2	bc	40	75	8	1500	StCu	2	aSt	5	.
Stornoway	1031.1	+2	SW	1	bc-	42	65	7	4000	CuNb	6	aCu	7	.
Wick	1031.5	+2	S	3	c1o/o	39	92	8	1500	Nb	8	aSt	10	.
Tiree	1030.8	+3	S	3	bc	39	75	7	1500	Cu	5	–	5	0
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Aberdeen	1031.2	0	SE	2	c	40	75	7	2500	Cu	8	–	8	2
Malin Head	1031.4	+3	S	1	c	36	85	5	5700	StCu	10	–	10	.
Renfrew	1031.2	+1	SW	1	mmc	34	97	4	5700	StCu	10	–	10	9
Edinburgh (Inchkeith)	1030.8	0	NNE	2	od.	36	97	5	1500	St	10	–	10	.
Leuchars	1031.1	+2	W	1	c–	37	97	5	800	St	10	–	10	2
Eskdalemuir	1031.8	+2	NE	1	c	33	92	6	1500	St	10	–	10	7
Tynemouth	1031.0	+2	E	2	o	38	75	7	1500	Nb	10	–	10	.
Blacksod Point	1029.9	+2	ESE	3	b	38	75	7	.	Cu	2	–	2	.
Donaghadee	1030.3	+2	SE	2	c	38	75	7	4000	StCu	8	–	8	.
Birr Castle	1030.4	.	NE	1	c	30	92	5	450	St	5	aSt	8	.
Holyhead	1030.9	+4	–	0	c	36	75	6	5700	StCu	10	–	10	1
Liverpool (Bidston)	1030.5	+2	N	1	c_0s_0	34	85	5	4000	Nb	10	–	10	.
Chester (Sealand)	1029.7	+2	WNW	2	os_0s_0	33	92	4	2500	St	10	–	10	7
Harrogate	1030.5	+2	–	0	os_0s_0	32	92	3	2150	St	10	–	10	.
Spurn Head	1028.8	+2	ENE	2	c	36	85	7	4000	CuNb	6	aSt	10	.
Birmingham (Edgbaston)	1029.6	+2	N	3	cs_0s_0	32	92	4	1500	Nb	8	–	8	2
Cranwell	1029.3	+2	NE'N	1	os_0s_0	32	97	4	4000	St	10	–	10	9
Gorleston	1027.3	+1	ENE	1	c	36	92	6	2500	Nb	5	aSt	10	.
Valentia (Cahirciveen)	1029.0	+1	E'N	2	b	37	85	5	–	–	0	aCu	1	1
Roches Point	1029.6	+3	NE	3	bc	38	97	8	1500	CuNb	4	–	4	.
Pembroke (St. Ann's H.)	1030.1	+5	NNW	1	c+	35	75	6	1500	StCu	10	–	10	.
Ross-on-Wye	1029.1	+2	N'W	2	os_0	32	97	5	450	Nb	10	–	10	1
Leafield	1028.3	0	N'E	2	os_0s	31	97	5	1500	St	10	–	10	7
Winchester (Worthy Dn.)	1027.7	+1	N'E	1	c	31	85	6	2500	StCu	10	–	10	9
S. Farnborough	1027.9	+1	NNE	1	mo/+	31	92	4	800	St	10	–	10	9
London (Kew Obsy.)	1028.3	+1	–	0	ors_0	31	92	3	1500	St	10	–	10	3
Croydon	1028.6	+3	–	0	fo+	31	97	3	2500	St	10	–	10	3
Shoeburyness	1027.1	+2	N	1	c	33	85	6	2500	StCu	10	–	10	.
Clacton-on-Sea	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Felixstowe	1029.3	+4	ENE	2	c	36	85	7	2500	StCu	8	aCu	9	7
Lympne	1027.3	+2	N	3	c	34	75	6	7200	StCu	8	aCu	10	3
Scilly (St. Mary's)	1029.3	+2	ENE	3	bc-	42	75	6	4000	Cu	1	aCu	5	.
Falmouth (Pendennis)	1030.0	+3	NE'N	1	bc	35	65	6	4000	StCu	5	–	5	.
Plymouth (Cattewater)	1029.7	+3	NNW	3	bc–	33	85	4	4000	StCu	4	–	4	7
Portland Bill	1027.7	+2	NE	3	c	33	85	6	1500	St	8	aSt	10	.
Southampton (Calshot)	1028.0	+2	NE'N	2	c	32	85	5	4000	StCu	10	–	10	3
Dungeness	1026.7	+1	ENE	2	c+	37	75	6	2500	StCu	10	–	10	.
Guernsey (Fort George)	1027.0	+2	N	2	c	37	75	6	1500	St	6	aSt	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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1034.7	-1	SE	2	c/p	39	92	7	1500	CuNb	6	aSt	10	.
Stornoway	1032.7	+1	–	0	bc	32	85	6	4000	StCu	6	–	6	6
Wick	1033.4	+2	WSW	2	c	36	97	8	1500	CuNb	8	aSt	10	3
Tiree	1033.1	+2	–	0	b	33	85	7	1500	St	2	–	2	1
Nairn	1032.8	.	–	0	c	35	92	6	1500	St	9	–	9	.
Aberdeen	1033.9	+3	NW	2	b	33	92	5	4000	StCu	1	–	1	1
Malin Head	1033.8	+3	S	1	c	35	85	5	5700	StCu	10	–	10	1
Renfrew	1034.3	+4	–	0	o	33	97	5	2500	St	10	–	10	.
Edinburgh (Inchkeith)	1033.6	+2	WSW	1	o	36	97	4	800	St	10	–	10	0
Leuchars	1034.3	+5	WNW	1	mmo	35	97	4	800	St	10	–	10	.
Eskdalemuir	1034.4	+4	N'E	2	o+	32	92	6	1500	St	10	–	10	.
Tynemouth	1032.3	+3	NNW	1	o	38	75	6	1500	Nb	10	–	10	4
Blacksod Point	1032.4	+2	ESE	4	b	37	75	7	.	Cu	2	–	2	2
Donaghadee	1032.9	+3	W	1	c	36	85	5	4000	StCu	9	–	9	1
Birr Castle	1032.9	.	NE	1	c	33	92	5	1500	Cu	7	aSt	10	.
Holyhead	1033.5	+4	–	0	cStat	34	85	3	4000	StCu	9	–	9	0
Liverpool (Bidston)	1033.4	+4	NE'N	1	mo	34	92	3	800	St	10	–	10	.
Chester (Sealand)	1032.8	+4	NW	1	fo+	33	92	3	1500	St	10	–	10	.
Harrogate	1033.4	+2	–	0	o	32	97	5	2500	St	10	–	10	.
Spurn Head	1031.1	+1	NW'N	3	o	36	92	6	4000	Nb	10	–	10	3
Birmingham (Edgbaston)	1033.7	+3	NNW	2	fo+	32	92	2	1500	St	10	–	10	.
Cranwell	1032.5	+4	N'W	2	fo+	31	97	2	2500	St	10	–	10	.
Gorleston	1031.4	+4	NNE	1	o	35	85	5	2500	St	10	–	10	0
Valentia (Cahirciveen)	1032.1	+4	–	0	bc	34	85	8	4000	StCu	3	–	3	2
Roches Point	1032.0	+3	SW	3	c	41	85	8	1500	CuNb	8	–	8	4
Pembroke (St. Ann's H.)	1032.0	+3	NE	1	bc	34	75	6	1500	St	5	aSt	7	1
Ross-on-Wye	1032.6	+4	NNW	3	o	32	92	5	450	St	10	–	10	.
Leafield	1032.4	+4	NNE	2	o	30	92	5	2500	St	10	–	10	.
Winchester (Worthy Dn.)	1031.7	+4	N	1	o	31	92	6	1500	St	10	–	10	.
S. Farnborough	1031.7	+4	NE	1	cm	31	92	4	2500	StCu	10	–	10	.
London (Kew Obsy.)	1031.9	+5	NNW	1	o/f	32	92	5	1500	St	10	–	10	.
Croydon	1032.0	+5	NWW	1	fjo	32	97	2	2500	St	10	–	10	.
Shoeburyness	1031.5	+5	N'E	1	c	33	97	6	2500	StCu	10	–	10	.
Clacton-on-Sea	1031.3	+4	NW	3	bc	33	75	6	4000	StCu	7	–	7	1
Felixstowe	1032.0	+5	N'E	1	b	30	92	5	–	–	0	–	0	0
Lympne	1030.8	+4	N'W	3	mc+	31	92	4	4000	StCu	9	–	9	.
Scilly (St. Mary's)	1032.4	+3	E'N	3	c	39	85	6	4000	StCu	8	–	8	1
Falmouth (Pendennis)	1033.7	+3	NNE	1	bc	33	75	6	1500	St	4	–	4	0
Plymouth (Cattewater)	1033.2	+4	NE	2	b–	33	85	5	–	–	0	–	0	0
Portland Bill	1032.0	+4	N	4	o	34	85	5	1500	St	10	–	10	1
Southampton (Calshot)	1031.7	+4	NE'N	1	c	33	85	6	1500	StCu	9	–	9	0
Dungeness	1031.1	+5	N	3	c/m	30	97	6	1500	StCu	8	–	8	3
Guernsey (Fort George)	1031.6	+5	N	1	c	36	65	6	2500	StCu	8	aSt	10	0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 Hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility.§
Kew	18	ofqs₀	ofqs₀	om	32	32	27	Tr	–	0.0	*	*	3
Croydon	244	omcffff	off	offx	32	31	28	–	–	0.0	*	*	3
Greenwich (Royal Obsy.)	149	of	ofcf	ofqfs₀	33	32	29	–	Tr	0.0	85	89	2
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	35	32	30	–	–	0.0	78	78	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	of	fo	*	31	31	*	Tr	Tr	*	*	91	*
Kensington Palace	80	of	om	*	34	33	30	–	–	*	(At 18h.) 79	79	*
Hampstead Observatory	450	*	*	*	32	28	26	Tr	–	0.0	*	98	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time.	Min.	Time.
2.0	14hn 7th	<0.3	4hn 8th

Kew Observatory

Max.	Time.	Min.	Time.
0.8	14hn 7th	0.2	4hn 8th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 7th 17h 15m. to 8th 07h 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 45	NIL	NIL
δ Ursae Minoris	13.48	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.

8th–9th JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	12.0	15.55
	8.4	12.0	15.57
Greenwich	8.6	12.7	16.8
	8.6	12.7	16.9
Wick	9.1	12.13	15.38
	9.0	12.19	15.40
Valentia	8.49	12.48	16.47
	8.49	12.48	16.48

BEAUFORT NOTATION OF WEATHER.

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

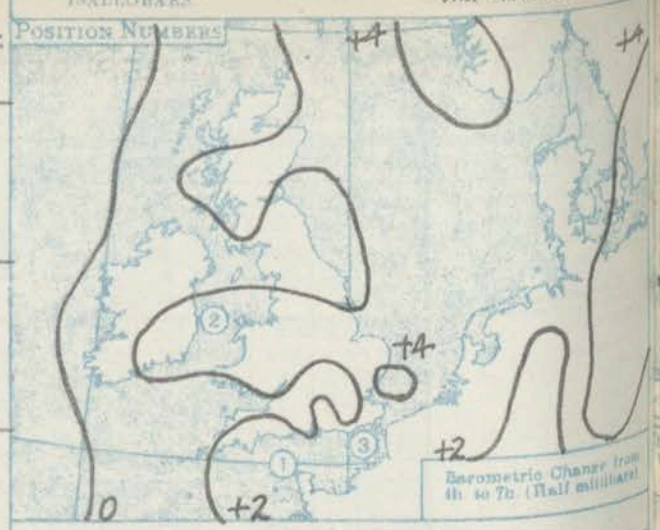
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	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.	2½ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

Summaries for the Past 24 Hours

Stations.	Weather. 7h.-18h. 7th	Weather. 18h.-18h. 7th	Weather. 18h. 7th. to 18h. 8th	Weather. 18h.-7h. 8th	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 7th Hours.
Lerwick	cbc	bcepr₀	cbccipr₀	cipr₀	41	38	•	Tr.	16.30	4	<21.00	0.3
Stornoway	cphrbc	c	b-bc	b-bc	42	28	•	0.2	11.00	–	–	3.0
Wick	ocr₀r	cr₀rc	o	b-bc	41	35	•	9	<8.00	–	–	•
Tiree	ocbc	bcebc	bc	bccc	40	31	22	–	–	–	–	0.8
Nairn	cm	cm	cxbc	bc	36	30	•	–	–	–	–	0.0
Aberdeen	orc	cbcbxm₀	bxmffm	bccmx	40	26	22	2	<8.00	–	–	0.2
Malin Head	cm₀	cm₀m₀	cm₀m₀	c[illegible]3₀	36	33	•	–	–	–	–	0.0
Renfrew	omffdom	omd₀m₀	om₀f	ofFx	34	29	25	Tr.	9.00	–	–	0.0
Edinburgh (Inchkeith)	oid₀m₀	om₀m₀	omm₀m₀	omom₀	37	35	34	Tr.	9.00	Tr	–	0.0
Leuchars	odd₀m₀c	cm₀om	omom₀	om₀	37	33	32	0.4	<8.00	–	–	0.0
Eskdalemuir	ops₀m₀c	cm₀	om₀	om₀	34	30	27	0.1	<8.00	–	–	0.0
Tynemouth	o	o	oid	o	39	38	33	–	–	1	<32.00	•
Blacksod Point ...	cb	b	c	c	40	35	•	–	–	–	•	•
Donaghadee	c	cm₀	cm₀m	cm	39	32	•	–	–	–	–	•
Birr Castle	cm₀	cm₀	cm₀	cm₀	34	30	22	–	–	–	–	1.4
Holyhead	cz₀	cz₀ffph₀	com₀	om₀	37	33	31	Tr.	16.30	–	–	0.0
Liverpool (Bidston) ...	os₀s₀	os₀cm	ocom₀	om₀	34	33	29	Tr.	9.00	–	–	0.0
Chester (Sealand) ...	os₀s₀m	oBBmf	ofcm	cmx	33	31	27	0.1	<8.00	–	–	0.0
Harrogate	off, s₀s₀	ofois₀	o	oc	32	32	31	0.3	9.00	–	–	0.0
Spurn Head	c	opspd₀o	opsₒcₒod	o	37	34	•	Tr.	11.00	1	<21.00	0.0
Birmingham (Edgbaston)	fos₀s₀	es₀mf	ffo	ffo	33	31	30	0.2	<8.00	–	–	0.0
Cranwell	cos₀	ois₀f	oxfs	om₀	32	31	30	0.2	11.00	0.1	29.00	0.0
Gorleston	cqc	c	om₀me	om₀c	36	33	32	–	–	Tr	–	0.0
Valentia (Cahirciveen)	bbcxb	bbc	bc	bccω	42	33	29	–	–	Tr	–	4.3
Roches Point	bc	bcc	c	c	43	40	•	–	–	–	–	•
Pembroke (St. Ann's H.)	cbcc	cbc	bccm	c	35	33	•	–	–	–	–	0.6
Ross-on-Wye	ois₀	og	qom	om	32	30	25	0.1	9.00	–	–	0.0
Leafield	os₀s₀	o	o	os₀	31	29	28	1	<8.00	0.4	3.30	0.0
Winchester (Worthy Dn.)	crs₀m₀	om₀s₀m₀	om₀	cm₀	31	30	28	Tr.	<8.00	–	–	0.0
S. Farnborough ...	ois₀m	omem₀	cmx	cmx	31	30	28	Tr.	<8.00	Tr	–	0.0
London (Kew Obsy.) ...	ofgs₀	ofgs₀	om	om	32	32	29	Tr.	9.00	–	–	0.0
Croydon	omeff, mff	off	offx	offx	32	31	28	–	–	–	–	0.0
Shoeburyness	c	c.o	ocm₀	cm₀x	34	28	22	–	–	–	–	0.0
Clacton-on-Sea ...	com	ocbcm	bcm	bcom	35	27	22	–	–	–	–	0.0
Felixstowe	cs₀c	cbcb	bm	bcmof	36	27	22	Tr.	<8.00	–	–	0.0
Lympne	cm₀z₀	cbcz₀cmx	cm₀	cm₀	35	30	24	–	–	–	–	0.4
Scilly (St. Mary's) ...	cbc	bcc	c	c	42	37	•	–	–	–	–	2.6
Falmouth (Pendennis)	bcz₀	bz₀	bcm₀	bcz₀	37	28	•	–	–	–	–	6.0
Plymouth (Cattewater)	bxmc	cmb	bm₀x	bm₀x	35	25	14	Tr.	–	Tr	–	3.1
Portland Bill	om₀	om₀	oz₀z₀	omom₀	34	32	•	–	–	–	–	•
Southampton (Calshot)	cm₀	cm₀	c	cm₀bcm₀	33	32	25	–	–	–	–	0.0
Dungeness	bcc	cmm	cmmm	cmc	37	~~(38)~~	•	–	–	–	–	• 29
Guernsey	cm₀	cm₀	cm₀	cm₀	38	35	•	–	–	–	–	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	7th 14.00	CAMBRIA	SW'W	6	C–	40	47	6
3	7th 02.00	BRIGHTON	NE	2	C	37	46	7

GENERAL INFERENCE.

A very large and intense anticyclone remains centred over Scandinavia and covers the British Isles. Quiet, mainly cloudy and rather cold weather will continue with some mist and local fog.

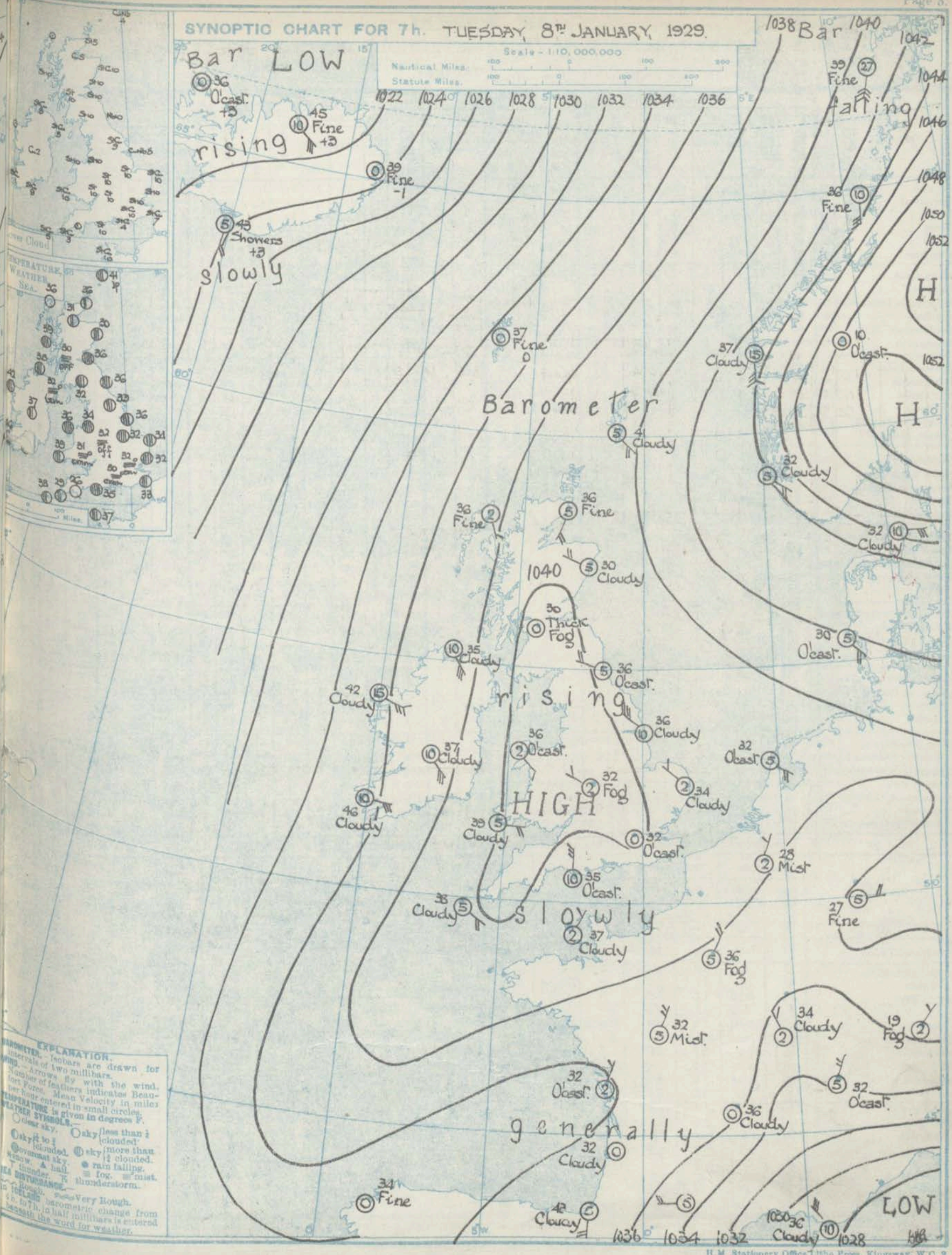
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 8th January, 1929.	Further Outlook.
1. S.E. England	ALL DISTRICTS.	
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Light variable winds, mainly cloudy; some mist with local fog; rather cold, local night frost.	No important change.
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. S.E. Scotland		
12. S.W. Scotland & Isle of Man		
13. A. W. Scotland / B. N.W. Scotland		
14. Mid-Scotland		
15. N.E. Scotland		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		

ECR

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

§ For code see page 1

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. TUESDAY, 8th. JANUARY, 1929. No. 8

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 8th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9	Observations at 7h. G.M.T. 8th. Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	54	1035·3	+1	SE	2	c/p	41	85	7	1500	CuNb	6	aSt	10	*	1039·0	+3	SE	2	c/p	41	92	7	1500	CuNb	4	aSt	8	*
Stornoway	30	1036·8	+2	–	0	b–	*	*	8	*	*	*	*	0	0	1037·0	+1	SSE	1	b	36	85	7	–	–	0	–	0	4
Wick	81	1036·7	+3	WSW	3	0	40	92	8	1500	St	10	–	10	4	1038·4	+1	SSW	2	bc	36	97	8	1500	St	5	–	5	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1037·5	+2	S	2	o	39	85	7	1500	St	10	–	10	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1038·4	*	–	0	bc	31	95	8	2500	Cu	5	–	5	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	0	1039·8	+2	NW'W	2	c	30	97	5	2500	StCu	10	–	10	0
Malin Head	51	1037·3	+3	S	2	c	36	75	5	5700	StCu	10	–	10	1	1037·6	+0	SSE	3	c–	35	75	6	5700	StCu	8	–	8	1
Renfrew	56	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1040·1	+2	–	0	ff o	30	97	1	<150	St	10	–	10	*
Edinburgh (Inchkeith)	190	1037·6	+3	W	2	o/m	36	97	6	800	St	10	–	10	2	1038·7	+1	W	2	o	36	85	5	800	St	10	–	10	*
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·5	+2	SW	1	o	35	92	6	2500	St	10	–	10	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1040·7	+2	–	0	o	32	75	6	800	St	10	–	10	*
Tynemouth	87	1037·9	+3	NW	1	o/p	36	85	6	1500	Nb	10	–	10	1	1039·1	+1	WNW	2	o	36	85	6	1500	Nb	10	–	10	1
Blacksod Point	18	1034·6	0	SE'E	4	c	39	85	7	*	–	0	aSt	8	2	1034·4	0	ESE	4	c	42	75	6	*	–	0	aSt	10	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1038·7	+1	W	1	nmbc	32	85	4	4000	StCu	5	–	5	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1037·2	*	SE	3	c	37	85	6	1500	Cu	2	aSt	10	0
Holyhead	26	1037·8	+4	SE'S	1	o	36	85	6	4000	St	10	–	10	*	1040·1	+3	SE'S	1	o	36	85	6	4000	St	10	–	10	*
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1040·7	+2	W	2	o	34	85	6	4000	St	10	–	10	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·5	+3	–	0	mmo	31	97	4	4000	StCu	10	–	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1040·2	+2	N	1	c	33	85	7	4000	StCu	9	–	9	*
Spurn Head	29	1035·9	+2	NW	2	oa	35	97	6	2500	Nb	10	–	10	5	1038·4	+2	NW	3	c	36	97	7	4000	CuNb	8	aSt	10	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1041·0	+2	WNW	1	ffo	32	92	2	1500	St	10	–	10	*
Cranwell	230	1036·9	+4	WNW	2	o/s	32	97	5	1500	St	10	–	10	*	1039·5	+3	NW	2	o	32	97	5	4000	St	10	–	10	0
Gorleston	14	1035·6	+2	WNW	1	o	34	92	5	800	St	10	–	10	0	1038·9	+3	NW	1	c	34	92	5	2500	StCu	10	–	10	0
Valentia (Cahirciveen) P	30	1035·0	+3	S	2	bc–	40	97	8	*	StCu	4	–	4	4	1035·2	+0	E	3	c	46	65	8	4000	StCu	1	aSt	8	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	4	1037·8	+2	SW	4	c	45	75	8	2500	StCu	9	–	9	0
Pembroke (St. Ann's H.)	150	1037·0	0	NE	1	c+	36	92	6	2500	StCu	10	–	10	*	1039·1	0	E	2	c	39	85	6	1500	StCu	10	–	10	*
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1040·5	+3	–	0	mmo	31	97	4	450	St	10	–	10	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·5	+2	WNW	2	o	31	92	5	4000	St	10	–	10	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·8	+2	NNW	1	c	31	92	5	1500	St	10	–	10	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·7	+3	WSW	1	nmc	30	97	4	4000	StCu	10	–	10	*
London (Kew Obsy.)	18	*	*	*	*	*	32	*	*	*	*	*	*	*	*	1040·2	+2	–	0	mmo	32	92	4	1500	St	10	–	10	*
Croydon	244	1037·1	+3	NW'W	1	ffo	31	97	2	800	St	10	–	10	*	1039·5	+2	W'N	1	fo–	32	97	3	4000	St	10	–	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039·5	+2	NNW	1	c	33	97	5	2500	StCu	10	–	10	1
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1038·6	+2	NW	3	o	32	85	6	4000	St	10	–	10	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	0	1038·9	+5	NNW	2	ffo	33	97	2	<150	St	10	–	10	*
Lympne	350	1035·4	+4	NNW	4	c	33	92	5	2500	StCu	10	–	10	*	1038·7	+3	NNW	1	c	31	92	6	7200	StCu	4	aCu	8	*
Scilly (St. Mary's)	163	1038·1	+2	ESE	2	c	37	85	7	4000	StCu	10	–	10	1	1039·5	+2	ESE	2	c	38	75	7	4000	StCu	8	–	8	1
Falmouth (Pendennis)	200	1038·0	+2	N'E	2	bc	29	97	6	4000	StCu	3	–	3	0	1040·2	+2	NE	1	bc	29	97	7	4000	StCu	3	–	3	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	0	1040·9	+3	E	1	b	26	92	6	–	–	0	–	0	0
Portland Bill	32	1036·4	+5	N	2	o	34	75	6	1500	St	10	–	10	*	1039·3	+3	N	3	o	35	85	5	1500	St	10	–	10	*
Southampton (Calshot)	10	1036·6	+4	NNE	2	c	33	85	6	1500	StCu	10	–	10	0	1039·6	+2	NE'N	2	bc–	32	92	6	1500	StCu	4	–	4	0
Dungeness	20	1035·3	+6	NNE	2	nmc	33	85	4	4000	StCu	10	–	10	1	1038·7	+3	NE	1	c/m	33	[illegible]	7	2500	StCu	7	aCu	9	0
Guernsey (Fort George) P	205	1036·8	+5	NNW	1	c+	38	65	5	4000	StCu	10	–	10	0	1039·2	+3	NE	1	c	37	65	6	2500	StCu	10	–	10	0

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 6th. to 9h. 7th. °F	Temperature. Max. 9h. -17h. 7th. °F	Rainfall.† Night 17h.-9h. 6-7th. mm.	Rainfall.† Day 9h.-17h. 7th. mm.	Sunshine. Sunrise to Sunset. 7th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c o	35	39	0·4	–	0·0
Douglas (I. o. M.)	o	o	33	36	–	–	0·0
Llandudno	o	c	31	35	–	Trace	0·0
Colwyn Bay	bsp	bsp	31	39	–	0·3	0·0
Rhyl	ob	o	31	35	–	0·2	0·0
Wallasey	ois	ois	30	34	Trace	Trace	0·0
Southport	ops	o	30	34	0·1	Trace	0·0
Blackpool	o	o	31	34	1	–	0·0
Ilkley	ors	om	29	34	0·2	1	0·0
Cleethorpes	go	gom	32	36	–	–	0·0
Skegness	opro	o	33	36	Trace	–	0·0
Aberystwyth	cbc	cz	31	35	–	–	1·0
Bath	cs	mc	30	33	Trace	0·3	0·0
Cheltenham	ogs	ogs	29	33	Trace	1	0·0
Leamington Spa	os	os	29	34	–	0·3	0·0
Lowestoft	c	c	32	35	Trace	–	0·0
Harwich & Dovercourt	oc	ocbcc	31	36	–	–	0·0
Maldon	co	o	26	34	–	–	0·0
Southend	cfo	om	30	34	Trace	–	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xbcb	bbc	25	37	–	–	2·6
Penzance	cbc	cbz	32	40	–	–	2·2
Paignton	om	om	27	34	–	–	0·0
Torquay	om	om	27	34	–	–	0·0
Jersey	cf	fc	27	38	–	–	0·0
Weymouth	c	c	30	34	–	–	0·0
Bournemouth	o	o	29	33	0·3	–	0·0
Ventnor	xo	oz	30	32	–	–	0·0
Portsmouth (S'thsea)	om	om	31	33	–	–	0·0
Bognor	o	o	31	36	–	–	0·0
Littlehampton	c	c	29	32	–	–	0·0
Worthing	uc	uc	31	33	–	–	0·0
Brighton	cocco	co	31	34	–	–	0·0
Eastbourne	co	ocom	31	36	–	–	0·0
Hastings‖	cooc	cbcc	30	35	–	–	0·3
Folkestone	xcm	com	27	37	–	–	1·0
Dover	mbcc	mco	30	37	Trace	–	0·2
Tunbridge Wells	om	oom	29	33	–	–	0·0
Ramsgate	c	co	31	37	–	–	0·0
Margate	bcc	c	30	38	–	–	0·0
Deal	o	o	29	37	–	–	0·0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B29,520 WEDNESDAY. 9th. JANUARY 1929. Page 1.

Observations at 13h. G.M.T. 8th. | Observations at 18h. G.M.T. 8th.

STATIONS. (For heights see p. 4).	13h. Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0–12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0–9	Cloud Low Height Feet	Low Form	Low Amt. 0–10	Upper Form.	Total Amt. 0–10	State of ground.	18h. Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0–12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0–9	Cloud Low Height Feet	Low Form	Low Amt. 0–10	Upper Form.	Total Amt. 0–10	Sea. 0–9
Lerwick	1040.5	-2	S	1	c/p	42	85	7	1500	CuNb	8	–	8	•	1040.7	+1	S'E	1	c	43	75	7	1500	StCu	5	aSt	9	•
Stornoway	1037.2	-1	S	1	c+	40	85	5	–	–	0	aSt	10	•	1035.8	-2	S	4	o	42	75	6	2500	St	10	–	10	3
Wick	1040.0	+2	W	2	c	37	92	8	1500	St	10	–	10	•	1039.7	-1	WSW	4	bc	40	65	8	2500	StCu	3	aSt	6	2
Tiree	1037.7	0	S	4	o+	41	75	7	1500	St	10	–	10	0	1036.7	0	S	6	o	42	75	7	1500	St	10	A–	10	3
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1039.0	•	–	0	c+	35	75	7	1500	St	9	–	9	•
Aberdeen	1041.2	+1	WNW	1	ffc	34	92	3	800	StCu	9	–	9	3	1041.6	+1	–	0	ffe	34	92	3	2500	StCu	8	–	8	
Malin Head	1037.5	0	S'E	4	c	40	75	6	5700	StCu	6	aCu	9	•	1036.0	-1	SSE	5	c	40	75	7	5700	StCu	10	–	10	3
Renfrew	1041.3	0	–	0	Fo+	31	97	1	2500	St	10	–	10	9	1041.2	0	NE	1	o+	36	85	5	2500	St	10	–	10	•
Edinburgh (Inchkeith)	1041.4	+1	SW	1	o	37	85	5	800	St	10	–	10	•	1044.4	0	SSW	2	o	37	75	6	800	St	10	–	10	0
Leuchars	1041.3	0	SW	2	c	37	85	6	4000	StCu	10	–	10	2	1042.1	+1	WSW	2	c	34	85	6	5700	StCu	4	aSt	9	•
Eskdalemuir	1042.5	+1	–	0	c	34	75	7	4000	StCu	9	–	9	7	1043.7	+1	–	0	o	29	85	7	2500	St	10	–	10	•
Tynemouth	1041.4	+1	WNW	2	o	38	75	5	1500	Nb	10	–	10	•	1042.4	+1	WNW	2	e~	37	75	5	1500	Nb	8	–	8	1
Blacksod Point	1034.3	0	ESE	4	c+	42	85	7	–	–	0	aCu	10	•	1032.6	-1	ESE	4	c	44/45	75	8	•	CuNb	8	–	8	5
Donaghadee	1039.6	+1	WSW	1	c	40	75	5	4000	StCu	8	–	8	•	1039.8	0	S	1	c	40	75	6	4000	StCu	8	–	8	1
Birr Castle	1037.0	•	SE	3	c	40	85	6	1500	StCu	3	aSt	9	•	1037.2	•	SE	4	c	40	85	6	1500	StCu	4	aSt	10	•
Holyhead	1041.7	+1	S'E	3	c	40	65	7	4000	StCu	10	–	10	1	1042.0	0	SSE	3	o	38	75	6	4000	St	10	–	10	0
Liverpool (Bidston)	1042.3	+1	–	0	mmc	38	85	4	4000	St	10	–	10	•	1042.7	0	S'E	2	c	35	85	5	800	St	3	aSt	8	•
Chester (Sealand)	1041.9	+1	S'E	1	fc-	35	92	4	4000	StCu	9	–	9	7	1042.2	0	SE	1	fb-	31	92	4	2500	St	2	–	2	•
Harrogate	1041.9	+1	–	0	c	37	85	7	4000	StCu	9	–	9	•	1043.4	+1	–	0	b	31	92	5	–	–	0	–	0	•
Spurn Head	1040.9	+1	NE	1	cr₀	37	97	7	4000	Nb	10	–	10	•	1042.6	+1	N	1	c	36	97	6	4000	StCu	10	–	10	2
Birmingham (Edgbaston)	1042.6	0	NNW	2	ffo	35	85	3	1500	St	10	–	10	2	1045.8	+1	NNW	1	Fb+	31	92	1	–	–	0	–	0	•
Cranwell	1041.9	+1	NW'W	2	bc	35	85	5	4000	StCu	7	–	7	7	1042.9	+1	–	0	c+	33	92	5	4000	StCu	10	–	10	•
Gorleston	1041.0	0	NW	1	mmc	37	97	4	1500	St	10	–	10	•	1042.7	+3	NE'E	2	or₀c₀	38	92	6	800	Nb	10	–	10	0
Valentia (Cahirciveen)	1034.9	-2	SSE	5	c	48	75	8	2500	St	8	aSt	10	1	1034.4	-1	S	5	bc	48	75	8	2500	St	4	aSt	6	4
Roches Point	1038.5	0	SSE	4	c	45	75	8	1500	StCu	10	–	10	•	1038.5	0	SSE	4	c	45	75	8	1500	StCu	10	–	10	4
Pembroke (St. Ann's H.)	1040.9	0	S	1	c	40	75	6	1500	StCu	10	–	10	•	1041.1	0	S	1	c	39	75	6	1500	StCu	10	–	10	1
Ross-on-Wye	1042.0	+1	SSW	1	ffo	33	97	3	450	St	10	–	10	1	1042.7	+1	E	1	ffbc	31	92	3	450	St	6	–	6	•
Leafield	1042.4	+3	–	0	mmo	32	92	4	2500	St	10	–	10	7	1043.4	+2	–	0	mmb	31	92	4	–	–	0	–	0	•
Winchester (Worthy Dn.)	1042.0	0	NW'W	1	mmc	33	92	4	2500	St	8	aSt	10	9	1045.0	+2	–	0	mmb	27	97	4	–	–	0	–	0	•
S. Farnborough	1042.0	+1	WNW	2	ffc	33	92	3	4000	StCu	10	–	10	4	1042.7	+1	NW	1	FFb	26	92	1	–	–	0	–	0	•
London (Kew Obsy.)	1042.2	0	W'N	1	ffc	35	85	3	4000	StCu	9	–	9	3	1043.4	+2	WSW	1	ffo	33	97	3	<150	St	10	–	10	•
Croydon	1041.9	0	NW'W	1	bs₀	33	97	3	1500	St	10	–	10	6	1045.0	+2	–	0	ffb	30	97	3	–	–	0	–	0	•
Shoeburyness	1042.1	+3	NNW	1	mmc	35	92	4	2500	St	9	–	9	•	1042.9	+1	NW	1	mmo	35	97	4	1500	St	10	–	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1042.[illegible]	+3	NW	3	c	35	85	5	5700	StCu	8	–	8	1
Felixstowe	1041.4	0	WNW	1	fc-	36	92	4	2500	StCu	8	–	8	7	1042.9	+2	NNW	1	ffo	35	92	3	450	St	10	–	10	0
Lympne	1041.0	+1	NW'W	3	mmc	34	92	4	800	St	10	–	10	3	1042.6	+5	NW'N	3	ffb	30	92	3	–	–	0	–	0	•
Scilly (St. Mary's)	1040.7	0	ESE	3	bc	42	75	6	4000	StCu	3	CiSt	5	•	1039.7	-2	SE'S	3	c	40	75	6	4000	StCu	9	–	9	1
Falmouth (Pendennis)	1041.4	0	NE	1	bc	38	65	7	4000	StCu	3	–	3	•	1040.8	0	ESE	3	c+	41	75	6	4000	StCu	6	aSt	10	1
Plymouth (Cattewater)	1041.8	-1	–	0	ffc	35	85	2	4000	St	10	–	10	7	1041.7	0	E	3	o	37	85	6	1500	St	10	–	10	0
Portland Bill	1041.3	+1	NNE	2	c	38	65	5	1500	StCu	10	–	10	•	1041.5	0	ENE	3	o	39	65	5	1500	St	10	–	10	1
Southampton (Calshot)	1042.4	0	NE	2	c	37	75	6	5700	StCu	8	–	8	0	1043.2	+1	ENE	2	b	34	85	6	–	–	0	–	0	0
Dungeness	1041.6	0	N	3/2	mmo	35	85	4	800	St	10	–	10	•	1042.4	+3	N	1	fbc+	32	92	3	800	St	6	–	6	1
Guernsey (Fort George)	1041.3	0	–	0	cd₀	39	75	5	800	St	7	aSt	10	•	1042.1	+1	ESE	1	c	40	65	6	1500	St	7	aSt	10	0

LONDON OBSERVATIONS. Day 7h–18h, Kew & Croydon. 9h–18h, Kensington. 8h–20h, other stations.

Station	Heights above M.S.L. in feet.	Weather Morning (24 Hours ended 9h.)	Weather Afternoon	Weather Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	ofs₀c	of	ofzw	36	32	27	Tr	Tr	0.0	•	•	2
Croydon	244	ofs₀	ofs₀b	boffx	33	30	23	Tr	–	0.0	•	•	1
Greenwich (Royal Obsy.)	149	of	cfoFx	oFxoF	34	33	21	–	Tr	0.0	94	95	1
City (Bunhill Row)	130	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	38	34	28	–	–	0.0	79	100	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	ofc	cbc	•	36	33	–	–	–	•	•	97	•
Kensington Palace	80	bcmon	of	•	37	34	31	–	–	•	(At 18h) 90	90	•
Hampstead Observatory	450	•	•	•	35	30	27	–	0.1	1.2	•	100	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
2.0	8th 9h	0.3	9th 6h

Kew Observatory Max.	Time.	Min.	Time.
1.9	8th 18h	0.3	9th 6h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 8th 17 h. 15 m. to 9th 07 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 45	Nil	–
δ Ursae Minoris	13.45	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.

9th & 10th JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4 8.4	12.0 12.1	15.57 15.58
Greenwich	8.6 8.5	12.7 12.7	16.8 16.10
Wick	9.0 8.59	12.19 12.20	15.40 15.41
Valentia	8.49 8.48	12.48 12.48	16.48 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.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense: suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

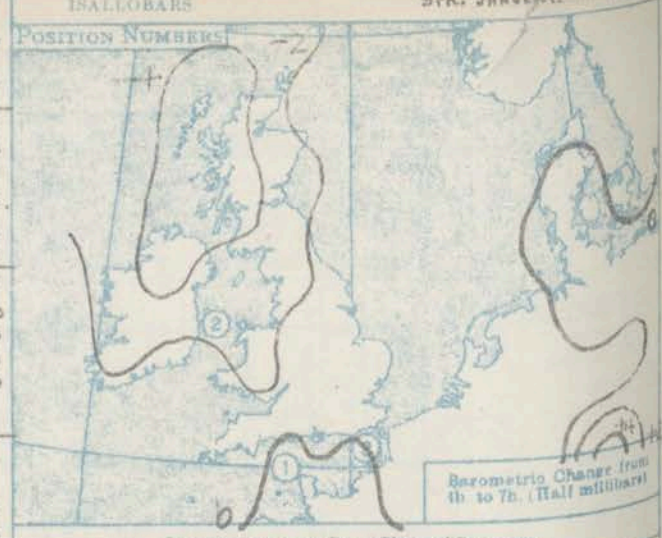
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	560 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

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

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 8th.	Weather. 13h.-18h. 8th.	Weather. 18h. 8th. to 1h. 9th.	Weather. 1h.-7h. 9th.	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 8th. Hours.
Lerwick	cpr₀	c	cip₀r	c p₀r	43	40	•	Tr.	48·00	0·3	21·00	0·0
Stornoway	bc₀z	o	cro	or	42	39	•	–	–	3	21·00	0·0
Wick	c	b-bc	b	o	41	39	•	–	–	–	–	•
Tiree	o	oq	b	orR q	42	39	37	–	–	8	02·30	0·0
Nairn	bc	cbec	cq	c	36	33	•	–	–	–	–	0·0
Aberdeen	cfmfx	ffc	cfz	cz₀	35	34	29	–	–	–	–	0·0
Malin Head	cz₀z₀	cz₀z₀	c	crr₀m₀	41	37	•	–	–	1	01·30	0·7
Renfrew	oFFx	oFz₀	oz₀	oz₀	36	35	33	–	–	–	–	0·0
Edinburgh (Inchkeith)	om₀m₀	mmm₀o	cimbc	co	39	35	28	–	–	–	–	0·0
Leuchars	om₀cm₀	cm₀cm₀x	cmbcm₀	bcm₀cm₀	38	31	26	–	–	–	–	0·0
Eskdalemuir	om₀oc	co	obcm₀	bcom₀	34	26	25	–	–	–	–	0·0
Tynemouth	om₀	om₀	cbcff	bcff	38	34	28	–	–	–	–	•
Blacksod Point ...	p₀c	pc	pR	Ro	45	44	•	0·5	•	19	•	•
Donaghadee	mmcm₀	cm₀	cm₀c	co	41	40	•	–	–	0·5	06·30	•
Birr Castle	cm₀	cm₀	coir	oir₀	41	39	36	–	–	1	05·30	0·0
Holyhead	ocm₀	coz₀	ocz₀	bccm₀	40	37	35	–	–	–	–	0·0
Liverpool (Bidston) ...	m₀om₀	ccm₀	m₀cm	cm₀	38	32	29	–	–	–	–	0·0
Chester (Sealand) ...	cfm	cmbcbm	bccmx	cmx	35	30	26	–	–	–	–	0·0
Harrogate	cbcc	cb	b	boff	37	30	23	–	–	–	–	2·8
Spurn Head	rs₀sorur	cr₀r₀c	co	ocbccx	38	34	•	3	48·00	–	–	0·0
Birmingham (Edgbaston)	ffo	fofb	bFF	FF	35	28	17	–	–	–	–	0·0
Cranwell	mobbcm₀	bccm₀	c	cmom	35	27	27	–	–	–	–	3·3
Gorleston	cmm	cmmo	or₀ro	oc	38	35	33	0·1	17·30	Tr	21·00	0·0
Valentia (Cahirciveen)	cw	c	coid₀	oid₀r₀	48	47	44	–	–	4	21·00	0·0
Roches Point	c	c	c	c	45	44	•	–	–	–	–	•
Pembroke (St. Ann's H.)	cm₀	c	c	cq	41	38	•	–	–	–	–	0·0
Ross-on-Wye	omof	ofcf	bcfcofx	ofzcfz	33	27	19	–	–	–	–	0·0
Leafield	om	ombcb	bx	b	32	26	19	–	–	0·1	–	0·3
Winchester (Worthy Dn)	cm₀m	cmbm	bmx	bccoffx	33	20	17	–	–	–	–	0·0
S. Farnborough ...	cmfs₀f	cfbff	bfofmf	off	34	24	19	Tr.	9·00	Tr	–	0·0
London (Kew Obsy.) ...	ofs₀c	of	ofx	xofw	36	32	27	Tr.	9·00	Tr	–	0·0
Croydon	offs₀	offs₀b	boffx	oFFx	33	30	23	Tr	11·00	–	–	0·0
Shoeburyness	cm	cm	cmr₀m	ofc	37	31	31	•	–	Tr	21·00	1·0
Clacton-on-Sea ...	ocm	cbccm	cm	cm₀	36 7	34	33	–	–	–	–	1·6
Felixstowe	ofcm	of	of	ofcmcf	36	33	29	–	–	–	–	0·7
Lympne	cmom	cbcbm	bfof	offcm₀x	34	29	26	–	–	–	–	0·0
Scilly (St. Mary's) ...	cbc	bcc	cbcc	c	42	39	•	–	–	–	–	4·3
Falmouth (Pendennis)	bcb	bcez₀	cz₀q	cz₀q	41	41	•	–	–	–	–	4·1
Plymouth (Cattewater)	bmxoff	cfom₀	cm₀o	ocm₀	37	36	33	–	–	–	–	0·0
Portland Bill	ozem₀	com₀	om₀	ozcz₀	40	38	•	–	–	–	–	•
Southampton (Calshot)	bcm₀	cm₀bm₀	bm bfx	bfx	38	30	23	–	–	–	–	0·0
Durgeness	omm	omcff	bcffoff	oFfs	36	[illegible]	•	–	–	–	–	• 31
Guernsey	cm₀mdq	idom₀	bcm₀	c	40	39	•	Tr.	12·30	–	–	0·0

ISALLOBARS 9th. JANUARY. 1929.



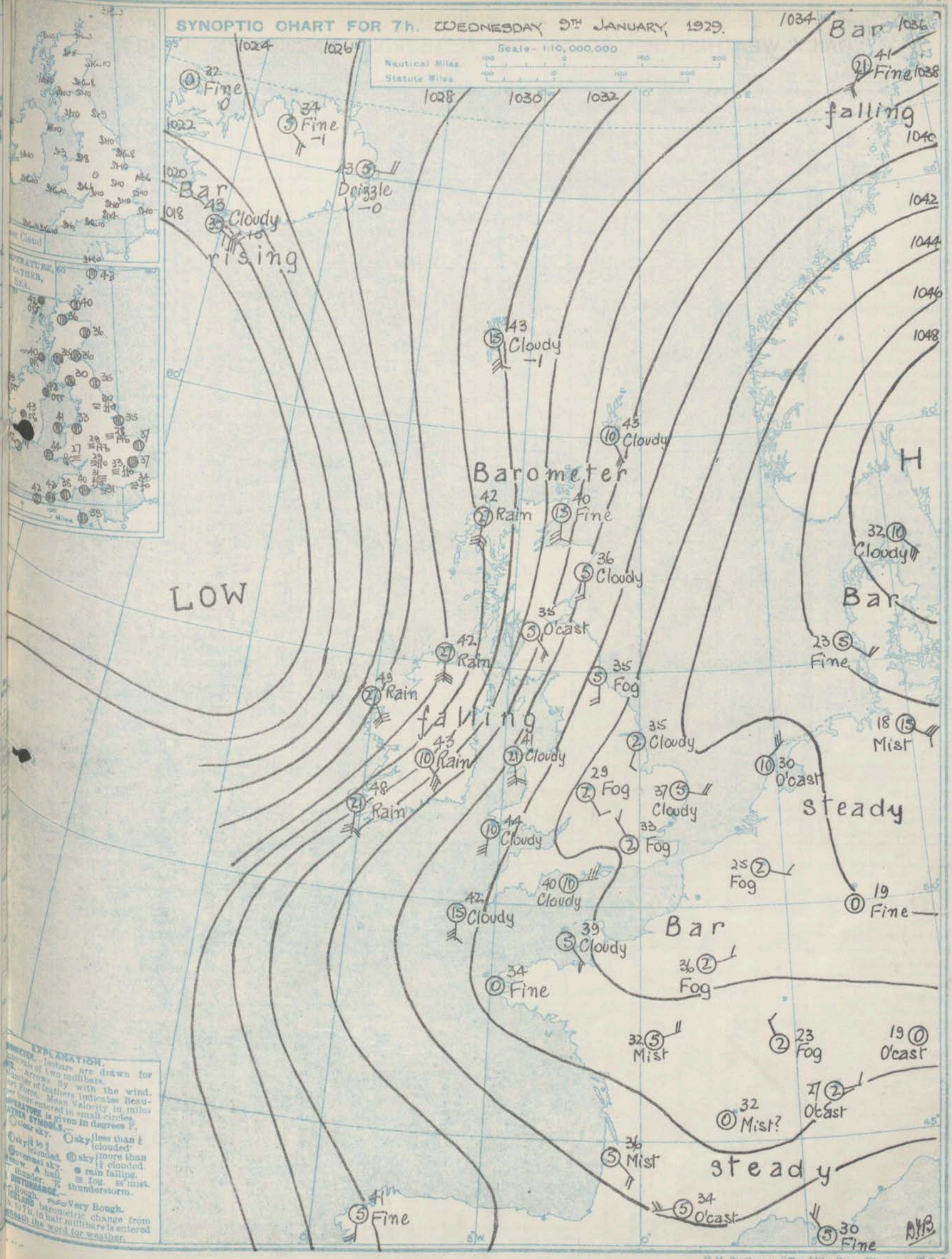
Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Sunshine.
2	8th 10h.	Cambria	S	2	c+	44	48	6
1	8th 10h.	St. Julien	E	4	rs+	41	49	6
3	9th 2h	Dieppe	SE	2	fo	38	48	5

GENERAL INFERENCE.

The large anticyclone over the Baltic continues to move slowly southeastwards and depressions on the Atlantic are influencing our western districts. Quiet rather cold foggy weather will continue for a time in Eastern England and the Midlands, but in Western districts and Scotland southerly winds with milder conditions and some rain will become general

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 9th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind variable to south or southeast light, mainly cloudy; some mist or fog, rather less cold, but night frost in most places.	Unsettled in the West: milder and unsettled conditions likely to extend gradually eastwards.
4. W. Midlands 5. S.W. England 6. South Wales	Wind southerly light to moderate, freshening; mainly cloudy; probably some drizzle later; local mist milder.	
7. North Wales 8. N.W. England	Southerly winds, moderate to strong, cloudy, some rain or drizzle; local mist; milder.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Freshening southerly winds, cloudy; some rain or drizzle later; local mist; temperature rising.	✝ South Cone hoisted 9h.15m. GMT. today.
12. S.W. Scotland & Isle of Man ✝ 13. A. W. Scotland ✝ B. N.W. Scotland	Strong southerly winds, reaching gale force locally; cloudy, some rain; milder.	
14. Mid-Scotland	As 9 - 11.	
15. N.E. Scotland 16. Orkneys and Shetlands	Strong S. or S.E. winds, cloudy, some rain later; temperature rising.	
17. N.W. Ireland ✝ 18. N.E. Ireland ✝	Wind southerly strong to gale, cloudy, some rain; local mist; milder.	
19. S.E. Ireland 20. S.W. Ireland	Wind southerly fresh to strong, cloudy, some rain; local mist; milder.	



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION WEDNESDAY. 9th. JANUARY. 1929. No. 9

Stations	Height above M.S.L. in feet	Obs. at 1h. G.M.T. 9th. Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Obs. at 7h. G.M.T. 9th. Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Rain
Lerwick	84	1038.8	-1	SE	3	cjp	43	85	7	1900	CuNb	5	ASt	9	1036.3	-2	SE'S	3	c	43	75	8	1500	StCu	3	ASt	9	.4
Stornoway	30	1034.8	-2	S	6	c	*	*	6	*	*	*	*	10	1030.1	-5	S	6	or$_o$r$_o$	42	92	6	2500	Nb	10	–	10	.5
Wick	81	1037.6	-2	SW	4	bc	39	75	8	2500	StCu	5	CSt	7	1035.5	-2	S	4	bc	40	75	8	2500	StCu	3	CSt	5	.6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.4	-4	S	7	OR	40	92	6	1500	Nb	10	–	10	.
Nairn	85	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.2	*	ESE	1	c	36	85	8	1500	St	8	–	8	.
Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	1038.1	-3	S'W	2	c	36	75	6	2500	StCu	10	–	10	0
Malin Head	81	1033.9	-3	S	6	c	40	75	7	5700	StCu	10	–	10	1027.8	-5	S	6	cr$_o$r$_o$	42	97	6	4000	Nb	7	ASt	10	4
Renfrew	80	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.5	-4	SE	2	o	36	85	6	1500	St	10	–	10	.
Edinburgh (Inchkeith)	100	1041.0		SW	2	c+	36	75	7	800	St	8	–	8	1038.5	-3	SW	3	o	36	75	8	800	St	10	–	10	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.6	-3	SE	2	c	34	85	6	5700	StCu	8	–	8	.
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.3	-3	S	3	o	30	92	6	1500	St	10	–	10	.
Tynemouth	87	1042.4	0	WSW	1	ffbc	35	85	3	800	St	6	–	6	1040.6	-2	S	2	cfj	35	92	6	1500	St	9	–	9	1
Blacksod Point ...	18	1028.7	-3	SE	6	orr	48	85	6	*	Nb	10	–	10	1025.9	-2	SE	6	orr	49	97	6	*	Nb	10	–	10	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.1	-3	SW	3	orr	42	92	7	2500	Nb	10	–	10	2
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.6	*	SE	4	or$_o$	43	85	5	1500	Nb	10	–	10	.
Holyhead	28	1041.1	-2	SSE	4	bc-	38	75	6	4000	St	7	–	7	1038.4	-3	SSE	5	c	41	85	6	2500	St	9	ASt	10	5
Liverpool (Bidston) ...	182	*	*	*	*	*	*	*	*	*	*	*	*	*	1040.2	-2	S'E	5	c	33	75	6	4000	St	10	–	10	.
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1040.6	-2	SE'S	3	mme	32	85	4	2500	StCu	10	–	10	.
Harrogate	678	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.6	-2	S	1	ffo	30	92	3	4150	St	10	–	8	1
Spurn Head	29	1043.7	+1	WSW	1	c	36	97	6	–	–	0	ASt	10	1042.3	0	SW'W	1	c	35	97	7	5700	StCu	8	–	0	.
Birmingham (Edgbaston)	536	*	*	*	*	*	*	*	*	*	*	*	*	*	1042.8	-1	SE	1	ffb	29	92	1	–	–	0	–	10	.
Cranwell	233	1043.6	+1	–	0	c	31	97	6	2500	St	9	–	9	1042.9	-1	–	0	ffo	28	97	1	4150	St	10	–	10	0
Gorleston	14	1044.0	+1	ESE	2	o	37	97	6	2500	Nb	10	–	10	1043.5	0	ESE	2	c	37	85	7	2500	Nb	6	ASt	10	4
Valentia (Cahirciveen) ‡	50	1033.2	-1	SSW	4	or	49	92	8	800	St	10	–	10	1032.1	-2	S	5	or$_o$r$_o$	48	85	7	1500	St	10	–	10	4
Roches Point ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.2	-1	SSE	4	c	47	85	8	1500	StCu	10	–	10	2
Pembroke (St. Ann's H.)	150	1039.4	0	SSE	4	c	41	86	6	1500	StCu	10	–	10	1038.8	0	SSW	3	c	44	85	6	1500	StCu	10	–	9	.
Ross-on-Wye	283	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.7	-2	W'S	1	ffc	27	97	3	4000	StCu	9	–	10	.
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1042.4	-1	E'S	2	Fo+	29	97	1	4150	St	10	–	10	.
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1042.7	0	NE'N	1	ffo	31	97	2	450	St	10	–	10	.
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.7	0	–	0	ffo	31	92	2	220	St	10	–	10	.
London (Kew Obsy.) ...	18	*	*	*	*	*	33	*	*	*	*	*	*	*	1043.4	0	NW'N	1	ffo	33	97	3	800	St	10	–	10	
Croydon	244	1043.0	0	WNW	1	ffo	32	97	1	4150	St	10	–	10	1042.5	0	–	0	fo-	33	97	2	4150	St	10	–	10	.
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1042.9	0	N'W	1	fo-	33	97	3	1500	St	10	–	10	0
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1042.7	0	NNW	1	o	37	85	7	4000	St	10	–	10	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1043.4	0	ENE	1	c	37	75	5	1500	St	10	–	10	.
Lympne	250	1042.6	0	NW'N	2	ffo	33	97	2	800	St	10	–	10	1042.0	-1	ENE	3	c	34	97	5	4000	StCu	10	–	10	3
Scilly (St. Mary's) ...	163	1039.4	-1	S	4	c	43	85	7	4000	StCu	8	–	8	1039.7	-1	S'E	4	c	42	75	7	4000	StCu	10	–	10	1
Falmouth (Pendennis)	200	1040.4	0	SE'S	4	c	43	65	6	4000	StCu	2	ASt	10	1040.0	-1	SE'S	3	c	43	75	7	4000	StCu	10	–	10	1
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.3	-1	ESE	3	c	38	85	7	1500	St	10	–	10	1
Portland Bill	32	1042.0	-1	ENE	3	o	39	65	5	1500	St	10	–	10	1041.6	0	E	3	c	40	75	6	1500	StCu	10	–	4	0
Southampton (Calshot)	10	1043.5	-1	NNE	2	ffb	31	92	3	–	–	0	–	0	1042.7	-1	ENE	2	ffbc	31	85	3	4150	St	4	–	10	1
Dungeness	30	1042.6	+1	N	2	ffo	32	92	1	4150	St	10	–	10	1043.0	0	NNE	1	fo-	34	97	3	4000	St	10	–	10	0
Guernsey (Fort George) ‡	295	1042.0	-2	ESE	2	c+	40	85	7	4000	StCu	10	–	10	1042.1	0	SE	2	c	39	65	7	2500	StCu	6	ACu	10	

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

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. 9h. 7th. to 9h. 8th.	Temperature Max. 9h. 7th. to 9h. 8th.	Rainfall† Night 17h.-9h. 7th.	Rainfall† Day 9h.-17h. 8th.	Sunshine Sunrise to Sunset 8th.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	c	34	38	–	–	0.0
Douglas (I. o. M.) ...	o	o	38	40	–	–	0.0
Llandudno ...	bcb	bbc	31	39	–	–	4.2
Colwyn Bay ...	cch	bbec	30	40	–	–	4.8
Rhyl	xmbc	bcc	26	37	–	–	4.1
Wallasey	of	of	31	38	–	–	0.0
Southport	o	oc	32	37	–	–	0.0
Blackpool	om	o	32	36	–	–	0.0
Ilkley	ogc	cx	28	37	–	–	0.8
Cleethorpes	f	or	33	38	2	0.3	0.0
Skegness	oprd	do	33	37	0.2	0.4	0.0
Aberystwyth ...	xzbc	bcc	31	39	–	–	4.8
Bath	cm	cm	30	35	–	–	0.0
Cheltenham ...	of	ofo	31	34	Trace	–	0.0
Leamington Spa ...	o	om	31	34	–	–	0.0
Lowestoft	cfc	ccd$_o$	33	37	–	Trace	0.0
Harwich & Dovercourt	gcf	bcocf	28	36	Trace	Trace	0.0
Maldon	fobc	bcof	30	37	–	–	0.4
Southend	of	obccf	32	37	Trace	–	0.9

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xcbc	bczm	23	37	–	–	4.0
Penzance	b	bcz	28	41	–	–	4.7
Paignton	cm	cmo	25	39	–	–	0.0
Torquay	om	om	27	39	–	–	0.0
Jersey	fc	fc	32	39	–	–	0.0
Weymouth	fc	c	31	38	–	–	0.0
Bournemouth ...	o	o	30	37	–	–	0.0
Ventnor ...	xoz	oz	31	38	–	–	0.4
Portsmouth (S'thsea)	bcf	bcf	31	38	–	–	2.5
Bognor	bc	bcc	31	39	–	–	1.2
Littlehampton ...	bcc	c	30	35	–	–	0.2
Worthing	bcc	c	31	35	–	–	0.8
Brighton	bcc	c	32	37	–	–	2.0
Eastbourne‖	fbco	obm	30	39	–	–	1.5
Hastings‖	cbcc	cocm	31	38	–	–	0.0
Folkestone	omem	cm	31	36	–	–	0.0
Dover	mifc	mjcbc	33	36	–	–	0.0
Tunbridge Wells ...	omps	com	29	33	–	Trace	0.0
Ramsgate	om	om	33	36	–	–	0.0
Margate	c	cm$_o$	34	37	–	–	0.0
Deal	o	o	30	37	–	–	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. and at Guernsey, the sunshine readings are from an auxiliary station. § For code see page 1. †: See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ♦ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,521 Thursday 10th January 1929. Page 1.

Observations at 15h. G.M.T. 9th

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1035.6	-3	S'E	3	c	44	75	8	1500	Cu	5	aSt	9	•
Stornoway	1027.9	-4	S	5	or_0r_0	42	92	6	2500	Nb	10	–	10	•
Wick	1032.5	-3	S	5	c/pr_0	39	75	8	1500	Nb	8	aSt	10	•
Tiree	1026.1	-3	SSW	6	od	43	97	6	800	Nb	10	–	10	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1035.1	-4	S	4	o	39	65	5	2500	St	10	–	10	3
Malin Head	1026.4	0	S	6	c–	45	92	7	4000	StCu	5	aCu	8	•
Renfrew	1035.6	-4	SE'E	4	oRSRS	35	97	5	800	St	10	–	10	9
Edinburgh (Inchkeith)	1035.8	-3	S	3	or_0r_0	35	97	4	450	Nb	10	–	10	•
Leuchars	1036.0	-3	SSE	2	os_0s_0	34	97	5	1500	St	10	–	10	3
Eskdalemuir	1036.3	-4	S	4	oss	32	97	5	450	St	10	–	10	7
Tynemouth	1037.3	-3	SSW	2	ffo	35	85	3	800	St	10	–	10	•
Blacksod Point	1027.8	+1	WSW	3	bc–	50	85	8	•	StCu	7	–	7	•
Donaghadee	1031.2	-5	SW	5	crr	42	92	6	2500	Nb	9	–	9	•
Birr Castle	1031.7	•	SE	3	cr_0r_0	45	85	6	1500	Nb	9	–	9	•
Holyhead	1036.1	-4	S'E	5	or_0r_0	42	97	5	800	Nb	10	–	10	1
Liverpool (Bidston)	1038.3	-3	SSE	4	o	34	75	5	4000	St	10	–	10	•
Chester (Sealand)	1038.7	-3	SE'S	4	mmo	34	85	4	2500	St	10	–	10	3
Harrogate	1039.9	-2	SSE	2	ffc	33	85	2	<150	St	9	aSt	10	•
Spurn Head	1040.9	-2	S'E	3	c	36	92	6	5700	StCu	6	CiCu	9	•
Birmingham (Edgbaston)	1040.9	-2	SSW	2	ffo	31	97	2	800	St	10	–	10	7
Cranwell	1041.1	-5	S	2	ffc	33	97	3	–	–	0	aSt	10	7
Gorleston	1042.5	-1	S	2	c	38	85	6	4000	StCu	5	aSt	10	•
Valentia (Cahirciveen)	1032.6	-1	S'W	5	or–	49	92	6	800	St	10	–	10	2
Roches Point	1034.8	-1	SW	4	c/r	47	85	8	1500	StCu	10	–	10	•
Pembroke (St. Ann's H.)	1037.8	0	SSW	3	c	45	85	6	1500	StCu	10	–	10	•
Ross-on-Wye	1039.8	-3	WNW	2	ffo	32	92	3	450	St	10	–	10	1
Leafield	1041.1	-1	S'E	3	FFo	29	97	1	<150	St	10	–	10	7
Winchester (Worthy Dn.)	1041.7	-2	E'N	1	Fo–	32	97	2	220	St	10	–	10	3
S. Farnborough	1041.8	-2	ESE	1	FFo	32	97	1	220	St	10	–	10	4
London (Kew Obsy.)	1041.8	-3	–	0	ffo	34	97	2	<150	St	10	–	10	3
Croydon	1041.6	-2	–	0	ffbc	36	92	3	4000	StCu	5	–	5	3
Shoeburyness	1042.3	-1	SSE	1	c/m	37	97	5	4000	StCu	6	aSt	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1042.3	-2	SSE	2	c	37	85	6	4000	StCu	10	–	10	2
Lympne	1041.3	-2	E'N	2	mmc	36	85	4	4000	StCu	10	–	10	0
Scilly (St. Mary's)	1039.0	-1	S'E	2	c	42	85	6	4000	StCu	10	–	10	•
Falmouth (Pendennis)	1039.3	-2	S'E	4	c	42	75	7	4000	StCu	9	–	9	•
Plymouth (Cattewater)	1039.9	-3	S	4	c	43	75	8	4000	Nb	10	–	10	2
Portland Bill	1040.0	-2	E	2	mmo	40	92	4	800	St	10	–	10	•
Southampton (Calshot)	1041.7	-2	–	0	FFo	32	92	1	<150	St	10	–	10	1
Dungeness	1041.6	+1	SE	1	c	39	75	7	1500	StCu	10	–	10	•
Guernsey (Fort George)	1040.[illegible]	-1	SE	3	bc	41	65	7	–	–	0	CiSt	7	•

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1034.0	-2	SE	3	cjp	43	75	7	1500	CuNb	5	aSt	10	•
Stornoway	1027.6	0	SE	1	bc/r	40	92	6	2500	Nb	7	–	7	1
Wick	1030.2	-2	S	6	or_0r_0	39	85	7	1500	Nb	10	–	10	6
Tiree	1024.8	0	S'W	5	od	46	97	6	800	Nb	10	–	10	6
Nairn	1029.6	•	–	6	crr	35	92	7	800	CuNb	10	–	10	•
Aberdeen	1035.3	-3	S'E	3	orr	38	92	5	1500	Nb	10	–	10	0
Malin Head	1025.9	-1	SSW	4	oDD	46	97	5	4000	Nb	10	–	10	3
Renfrew	1030.1	-4	ESE	3	or_0r_0	39	92	6	1500	St	10	–	10	•
Edinburgh (Inchkeith)	1032.0	-3	S	3	o	35	97	7	800	St	10	–	10	1
Leuchars	1032.7	-4	SSE	2	or_0r_0	35	92	5	800	St	10	–	10	•
Eskdalemuir	1033.5	-2	SSE	2	oss	32	97	5	220	St	10	–	10	•
Tynemouth	1036.1	-2	S	2	os_0s_0	34	92	3	800	Nb	10	–	10	1
Blacksod Point	1028.8	+1	WSW	3	bc	48	92	7	•	StCu	6	–	6	5
Donaghadee	1028.5	-1	SW'W	3	cr_0	43	97	6	2500	Nb	9	–	9	3
Birr Castle	1030.9	•	S	2	or+	46	97	5	800	Nb	10	–	10	•
Holyhead	1032.8	-3	S	5	or–	44	92	5	800	Nb	10	–	10	4
Liverpool (Bidston)	1035.2	-2	S'E	4	crs_0rs_0	34	92	7	1500	CuNb	10	–	10	•
Chester (Sealand)	1035.4	-2	SE'S	3	ors_0rs_0	35	85	4	1500	St	10	–	10	•
Harrogate	1036.9	-2	S	3	os_0	33	85	5	2500	St	10	–	10	•
Spurn Head	1037.9	-2	S'E	4	ffo	35	97	3	220	St	10	–	10	2
Birmingham (Edgbaston)	1038.5	-3	S	2	mmo	32	92	4	800	St	10	–	10	•
Cranwell	1038.5	-3	S	3	mmo	32	97	4	800	St	10	–	10	•
Gorleston	1041.2	-2	–	0	bc–	35	92	6	4000	StCu	5	–	5	0
Valentia (Cahirciveen)	1032.0	0	SW'W	4	od–	50	97	6	800	St	10	–	10	4
Roches Point	1033.3	-1	SW	3	c/r	47	85	8	1500	StCu	10	–	10	4
Pembroke (St. Ann's H.)	1035.8	0	SW	4	cr_0	43	85	7	1500	StCu	10	–	10	3
Ross-on-Wye	1037.6	-2	SSW	1	ffo	33	85	3	450	St	10	–	10	•
Leafield	1039.1	-3	SE	3	FFo	30	97	1	<150	St	10	–	10	•
Winchester (Worthy Dn.)	1039.6	-2	ENE	1	FFo	32	97	1	<150	St	10	–	10	•
S. Farnborough	1040.1	-1	–	0	FFo	31	97	1	<150	St	10	–	10	•
London (Kew Obsy.)	1040.5	-1	SW'S	1	ffo	34	92	3	800	St	10	–	10	•
Croydon	1040.3	-1	–	0	Fo–	32	97	2	<150	St	10	–	10	•
Shoeburyness	1041.0	-1	SE'S	1	b	31	97	5	–	–	0	–	0	•
Clacton-on-Sea	1040.7	-2	SE	3	bc	37	85	7	4000	St	5	–	5	1
Felixstowe	1040.7	-1	SSE	2	b	36	85	6	–	–	0	–	0	0
Lympne	1040.3	-1	E'S	3	mmc	35	85	4	4000	StCu	10	–	10	•
Scilly (St. Mary's)	1037.7	0	SW'S	3	c	44	85	7	4000	StCu	10	–	10	1
Falmouth (Pendennis)	1037.0	-1	SW	3	e	42	75	7	4000	StCu	10	–	10	1
Plymouth (Cattewater)	1038.4	-1	SSW	4	o	44	85	7	4000	Nb	10	–	10	0
Portland Bill	1038.1	-3	SSW	3	o	43	65	6	1500	St	10	–	10	1
Southampton (Calshot)	1040.5	-1	–	0	Fo+	33	97	1	<150	St	10	–	10	0
Dungeness	1040.5	-2	SE	1	c	39	75	6	1500	StCu	10	–	10	0
Guernsey (Fort George)	1039.8	-1	SSE	3	bc–	40	65	7	2500	StCu	2	CiSt	5	3

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

Station	Heights above M.S.L. in feet	Weather Morning (24 hours ended 9h)	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Nght. °F.	Min. on Grass °F.	Rainfall† mm. Day	Rainfall Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	of	ofw	bfwrm	36	32	29	-	1	0.0	•	•	4
Croydon	244	oFxff	bcoFF	FFxrrm	36	30	27	-	1	0.0	•	•	4
Greenwich (Royal Obsy.)	149	oFf	ocacf	cbxfcrm	37	30	25	-	1	0.0	95	95	3
City (Bunhill Row)	80		•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	39	34	28	2		0.0	88	85	•
Regent's Pk. (Botanic Gdns).	188	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	fcf	f	•	35	34	•	-	2	•	•	95	•
Kensington Palace	80	omff	off	•	36	33	29	-	2	•	(At 18h) 90	90	•
Hampstead Observatory	450	•	•	•	35	31	25	Tr.	2	0.0	•	98	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time.
1.6	9th 12h	<0.3	10th 6h

Kew Observatory Max.	Time.	Min.	Time.
0.6	9th 14h	0.1	10th 6h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 9th 17 h. 15 m. to 10th 7 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.45	0.26	3
δ Ursae Minoris	13.45	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.

10th and 11th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4	12.1	15.58
	8.3	12.1	16.0
Greenwich	8.5	12.7	16.10
	8.4	12.8	16.12
Wick	8.59	12.20	15.41
	8.58	12.20	15.43
Valentia	8.48	12.48	16.49
	8.47	12.49	16.51

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

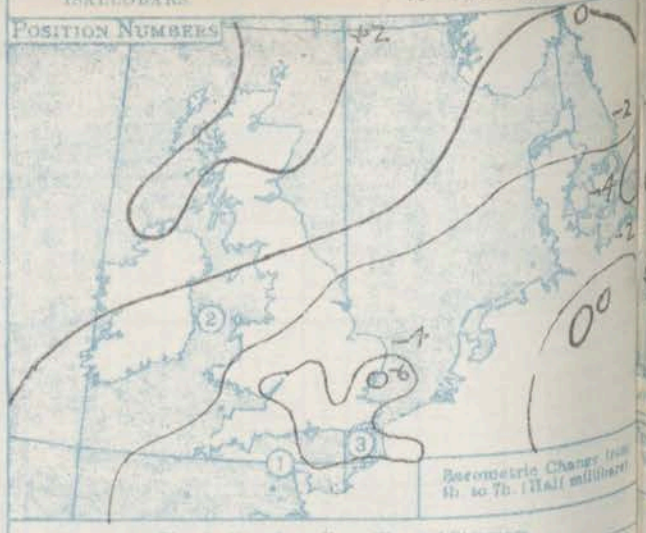
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 9h.	12h.-18h. 9h.	18h. 9h. to 18h. 10h.	18h.-7h. 10h.	Temperature. Max. Day 7h.-18h.	Min. Night 18h.-7h.	Min on Grass	Rainfall.† Day 7h.-18h. mm.	began.	Night 18h.-7h. mm.	began.	Sun 9h. Hours.
Lerwick	c	cpr.	cpr.	cpr.	44	40	.	0.3	14.30	2	<21.00	0.0
Stornoway	r-d	ofr.bc	c	o	43	37	.	4	18.00	-	-	0.0
Wick	bcpr	p.r.r	c	o	40	38	.	1	12.30	-	-	.
Tiree	rr.d	Rrd	d.d.	d.o	46	41	39	11	18.00	0.4	<21.00	0.0
Nairn	cprsr	rro	or.cx	c	37	30	.	2	9.00	0.1	<21.00	0.0
Aberdeen	co3.	o3.osrm.orir.		oir.	39	37	36	3	13.30	2	<21.00	0.0
Lerwick Head	cr.circ	cbcODD	oDmmbm	bimomm	46	44	.	2	18.00	3	<21.00	1.0
Renfrew	oorrsrs	orsrstc	odd	oddo	39	35	34	10	9.00	1	<21.00	0.0
Edinburgh (Inchkeith)	ommirs	ommrsrs	oirsdd	oid.	37	35	34	5	11.00	0.3	<21.00	0.0
Leuchars	cm.xoss	os.obcm.	orxmrom	om.	35	34	32	8	11.00	1	<21.00	0.0
Eskdalemuir	om.ossp.	ossm.	oism.	opom.	32	31	32	8	11.00	4	<21.00	0.0
Tynemouth	coff	offirs.	ossffrsrs	ois	36	33	31	1	15.30	11	<21.00	.
Blackwod Point ...	r.c	p.c	p.c	c	50	45	.	2	.	0.4	.	.
Donaghadee	orrm.	rrir.	ir.m.	om.mm	43	43	.	11	18.00	1	<21.00	.
Birr Castle	cr.r.	corr	orrm.	om.	46	42	36	7	18.00	1	<21.00	0.0
Holyhead	cm.r.r.	r.r.rr	rrom.	om.	44	43	42	5	11.00	9	<21.00	0.0
Liverpool (Bidston) ...	com.	omr.s	orsm.	oi.d.	35	33	32	0.4	16.30	4	<21.00	0.0
Chester (Sealand) ...	cmm	cmrsrs	rsmR	omr	35	34	32	Tr.	17.30	3	<21.00	0.0
Harrogate	ocff	cfcois.	oss	osFF	34	32	31	Tr.	17.30	6	<21.00	0.0
Spurn Head	c.	comcfod	mmoffoss	osorroff	37	33	.	Tr.	18.30	5	22.00	0.0
Birmingham (Edgbaston)	Ffo	fmo	moss	os	32	31	31	-	-	2	22.00	0.0
Cranwell	cxfe	cfom	ossf	osm	33	31	31	-	-	5	22.00	0.0
Gorleston	c	c	bcc	com.	38	33	32	-	-	-	-	0.0
Valentia (Cahirciveen)	orr	crrd	bc	bco	50	44	37	16	18.00	1	<21.00	0.0
Roches Point	crc	circ	cir	cifbc	49	43	.	2	9.00	3	22.00	.
Pembroke (St. Ann's H.)	c	cr.	cdm	odcffbc	45	42	.	Tr.	14.30	5	<21.00	0.0
Ross-on-Wye	cfoc	ofof	ofdfrm	dmom	34	33	32	-	-	1	<21.00	0.0
Leafield	oFF	oFF	offi.fs	osfm	30	30	30	Tr.	-	3	?	0.0
Winchester (Westly Dn.)	oFFx	oFF	offom	pmomrr	32	31	31	Tr.	-	2	3.30	0.0
S. Farnborough ...	oF	oF	oFf	omrfm	32	31	31	Tr.	-	2	3.30	0.0
London (Kew Obsy.) ...	of	ofw	ofw	orm.	36	32	29	-	-	1	3.30	0.0
Croydon	oFxffbc	bcoFF	obFFx	omrrm.	36	30	27	-	-	1	3.30	0.0
Shoeburyness	ofcm.	cm.	cm.	cdmx	37	29	23	-	-	0.2	3.30	0.0
Clacton-on-Sea ...	ocm	cmbc	bc.c	c.om	38	36	32	-	-	-	-	0.0
Felixstowe	cz.	cobcz.	bbcmz	cmom	38	35	31	-	-	-	-	0.0
Lympne	cm.	cm.m	cm.	cm.r.d.	36	34	32	-	-	0.2	5.30	0.0
Scilly (St. Mary's) ...	c	c	c.	cr	44	43	.	-	-	0.2	5.30	0.0
Falmouth (Pendennis)	c	c	cr.	cor.m.	44	42	.	-	-	0.4	22.00	0.0
Plymouth (Cattewater)	oc	co	oc	codd	44	42	40	-	-	2	5.30	0.0
Portland Bill ...	comm	omo	ocbco	pirorrz	44	42	.	-	-	1	24.00	.
Southampton (Calshot)	ffx oFF	oFeFe	oFF	pmoirm	33	33	32	-	-	1	1.30	0.0
Dungeness	fcc	c	cz	cz.om	40	35	.	-	-	-	-	.
Guernsey	cbc	bc	bccm	bccidm	41	39	.	-	-	Tr.	6.30	0.3

ISABLOBARS

10th JANUARY 1929.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	9th 10h	Cambria	S'E	6	orr	46	49	5
3	10th 2h	Brighton	SW	2	c	40	47	4

GENERAL INFERENCE.

A shallow depression moving southeastwards over the British Isles will be accompanied by rainy conditions at first in southern and eastern districts of England but later some improvement will occur in all parts of the British Isles.

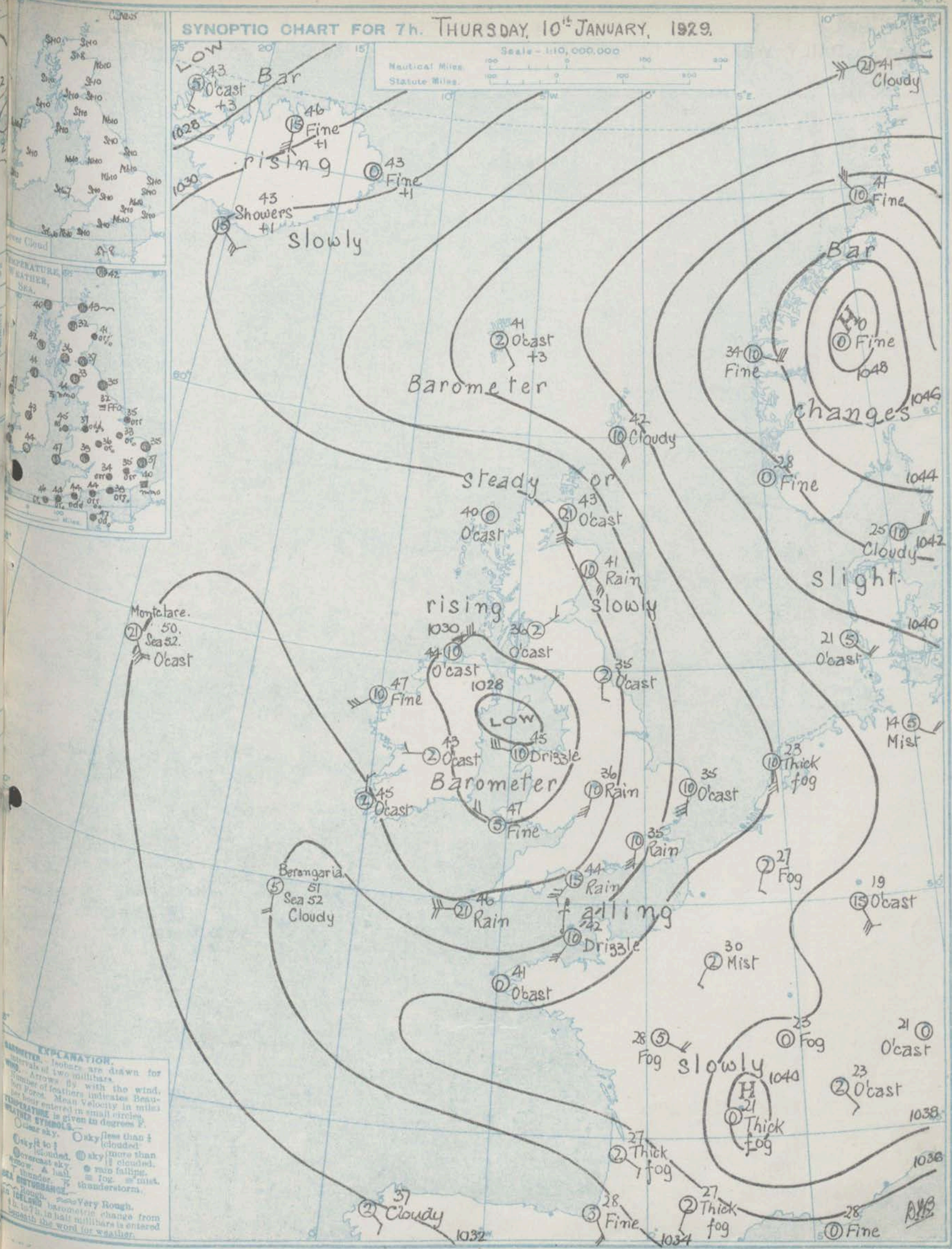
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 10th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Southerly to variable then westerly winds, light to moderate; rainy at first, some improvement later; local mist; rather low to moderate temperature.	None issued.
5. S.W. England 6. South Wales 7. North Wales	Westerly to variable then southerly winds, mainly light to moderate; bright and cloudy periods; occasional rain today; moderate temperature with slight ground frost locally at night.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Southeasterly to variable winds, mainly light to moderate; cloudy with local rain or drizzle at first, some improvement later; local mist or fog at first; temperature rising but ground frost locally at night.	
13. A. W. Scotland B. N.W. Scotland	Light variable winds; variable skies; local drizzle and mist; moderate temperature.	
14. Mid-Scotland	As 8 - 12.	
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland	Southeasterly winds, fresh locally; cloudy periods, local showers or drizzle; rather low to moderate temperature with ground frost locally at night.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Westerly to variable then southerly winds, light to moderate; variable skies; local drizzle and mist tomorrow; moderate temperature, ground frost locally inland at night.	

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

§ For code see page 1

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

SYNOPTIC CHART FOR 7h. THURSDAY, 10th JANUARY, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...Thursday...10th JANUARY.....1929. No...10...

Stations	Height above M.S.L. in feet	Obs. at 1h. G.M.T. 10th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Obs. at 7h. G.M.T. 10th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sun. 0-9
Lerwick	84	1035.0	+1	SE	3	cjp	42	85	7	1500	CuNb	6	Ast	9	1036.9	+2	SE	3	cjp	42	92	7	1500	CuNb	5	Ast	10	.
Stornoway	30	1029.8	+1	-	0	c	*	*	6	*	*	*	*	10	1030.6	0	-	0	o	40	92	7	2500	St	10	-	10	0
Wick	81	1031.3	+1	S	5	c	40	85	7	1500	Nb	8	Ast	10	1032.8	+2	S	5	o	43	85	7	1500	St	10	-	10	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.0	+3	E'S	2	o	42	92	7	1500	St	10	-	10	4
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.3	*	-	0	c	32	85	6	1500	St	8	-	8	.
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.8	+2	SE'S	3	orr	41	85	6	1500	Nb	10	-	10	1
Malin Head	31	1026.9	+2	N'W	3	(mmt)	46	97	4	-	-	(0)	-	(0)	1029.8	+2	NE	3	o	44	97	5	800	St	10	-	10	1
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.8	+1	NE	1	o/d	36	97	5	1500	St	10	-	10	.
Edinburgh (Inchkeith)	196	1030.4	-1	SE	2	odd	37	97	7	800	Nb	10	-	10	1030.5	+1	ENE	3	o	37	97	6	800	St	10	-	10	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.2	0	ENE	2	o	37	97	5	800	St	10	-	10	.
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.9	0	NNE	2	o	33	97	5	450	St	10	-	10	1
Tynemouth	67	1032.2	-3	S	2	ors	34	97	6	800	Nb	10	-	10	1030.4	+1	S	1	ojp	35	92	6	1500	Nb	10	-	10	1
Blacksod Point ...	18	1030.3	+1	WSW	3	c	48	92	7	*	-	0	Ast	10	1031.0	0	WSW	3	bc	47	92	7	*	CuNb	7	-	7	5
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.1	0	E	3	mmo	44	97	4	800	St	10	-	10	3
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.6	*	W	1	o	43	97	5	800	St	10	-	10	.
Holyhead	23	1029.9	-3	SW'W	4	o	47	97	6	1500	St	10	-	10	1028.4	-1	W'N	3	odd	45	97	5	800	Nb	10	-	10	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.2	-1	SE'S	3	odd	37	97	6	2500	Nb	10	-	10	.
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.0	-1	SE	2	orr	37	92	5	2500	St	10	-	10	.
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.1	-1	-	0	FFO	32	97	1	<150	St	10	-	10	.
Spurn Head	39	1035.0	-2	SSE	4	oss	33	97	3	220	St	10	-	10	1031.9	-2	SSE	5	orr	35	97	3	220	St	10	-	10	2
Birmingham (Edgbaston)	536	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.8	-3	SSW	3	o	36	97	6	1500	St	10	-	10	.
Cranwell	308	1035.8	-3	S'E	3	oss	32	97	3	800	Nb	10	-	10	1032.3	-2	SSE	3	or.	33	97	6	800	Nb	10	-	10	0
Gorleston	14	1038.0	-2	SW'W	2	c	35	92	6	-	-	0	Ast	10	1034.8	-3	S'W	3	o	35	97	5	1500	St	10	-	10	5
Valentia (Cahirciveen)P	30	1032.8	0	W	2	bc-	48	92	8	*	St	4	-	4	1032.4	-1	N	1	o	45	97	8	1500	St	10	-	10	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.6	-1	NW	2	bc	44	97	8	1500	StCu	4	-	4	2
Pembroke (St. Ann's H.)	150	1031.7	-1	SW	4	odd	46	97	5	800	St	10	-	10	1029.9	-1	WNW	2	bc-	47	92	7	1500	StCu	7	-	7	.
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.5	-4	SW'S	3	o	39	92	6	800	St	10	-	10	.
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.4	-4	S	4	or.	34	97	4	220	St	10	-	10	.
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.1	-3	SSE	3	orr	36	97	6	800	St	10	-	10	.
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.4	-4	S	2	orr	34	97	4	800	St	10	-	10	.
London (Kew Obsy.) ...	18	*	*	*	*	*	34	*	*	*	*	*	*	*	1033.7	-3	SSW	3	orr	35	97	5	800	Nb	10	-	10	.
Croydon	344	1037.1	-3	NW	1	mmo	34	97	4	4000	St	10	-	10	1033.6	-3	SW	3	orr.	35	97	5	1500	St	10	-	10	.
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.2	-6	SSW	1	c/d	37	97	6	800	St	10	-	10	2
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.2	-5	SSE	3	o	37	92	6	4000	St	10	-	10	1
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.8	-5	SSW	3	mmo	37	92	4	800	St	10	-	10	.
Lympne	350	1037.3	-3	S'E	2	c	37	75	5	4000	StCu	10	-	10	1034.4	-3	S'W	2	o/d	36	97	5	1500	St	10	-	10	.
Scilly (St. Mary's) ...	163	1034.6	-3	WSW	3	c	47	75	7	4000	StCu	10	-	10	1032.3	-2	W	5	cr.	46	97	7	4000	StCu	10	-	10	2
Falmouth (Pendennis)	200	1035.6	-2	-	0	c	42	85	7	4000	StCu	10	-	10	1032.1	-3	SW	2	or.	44	97	6	2500	Nb	10	-	10	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.8	-3	-	0	odd	44	97	7	1500	St	10	-	10	0
Portland Bill	52	1034.4	-3	S	4	or.	44	75	8	2500	Nb	10	-	10	1032.4	-3	SW	4	orr.	44	92	6	1500	St	10	-	10	1
Southampton (Calshot)	10	1037.2	-3	SW'W	1	o/f	39	86	6	1500	St	10	-	10	1033.9	-4	SW	3	orr.	39	92	6	1500	Nb	10	-	10	0
Dungeness	20	1038.4	-3	SSW	2	c	40	75	6	4000	StCu	10	-	10	1034.5	-4	SSW	3	mmo	40	85	4	800	St	10	-	10	3
Guernsey (Fort George) P	205	1037.2	-3	-	0	mc	40	86	4	4000	StCu	8	-	8	1034.0	-3	SW	3	cd.	42	86	5	1500	St	8	Ast	10	3

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 8... to 9h. 9th	Temperature. Max. 9h.-17h. 9th	Rainfall.† Night 17h.-9h. 8-9th	Rainfall.† Day 9h.-17h. 9th	Sunshine. Sunrise to Sunset. 9th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F	°F.	mm.	mm.	hr.
Berwick-on-Tweed	c	sso	34	35	-	3	0.0
Douglas (I. o. M.) ...	or	rr	38	43	-	13	0.0
Llandudno ...	or	o	32	43	-	0.1	0.0
Colwyn Bay ...	oco	orore	31	42	-	1	0.0
Rhyl...	o	op	36	40	-	1	0.0
Wallasey	fo	or	33	37	-	0.3	0.0
Southport	o	or	*32	36	-	1	0.0
Blackpool							
Ilkley	xom	go	24	37	-	-	0.0
Cleethorpes... ...	fox	o	30	35	-	-	0.0
Skegness	oproed	o	32	37	0.2	0.1	0.0
Aberystwyth ...	3c	or	32	41	-	0.3	0.0
Bath	mc	mc	27	32	-	-	0.0
Cheltenham ...	c	o	26	34	-	-	0.0
Leamington Spa ...	of	om	23	31	-	-	0.0
Lowestoft	c	cef	33	39	0.2	-	0.0
Harwich & Dovercourt	focm	ocu	32	38	Trace	-	0.0
Malden	om	cm	33	35	0.3	-	0.0
Southend	of	ofbem	33	36	-	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	o	c	28	41	-	-	0.0
Penzance	cz	cz	32	44	-	-	0.1
Paignton	om	omo	34	43	-	-	0.0
Torquay	omf	oco	37	43	-	-	0.0
Jersey	bcz	bcz	33	42	-	-	0.7
Weymouth	fcf	ffm	33	39	-	-	0.0
Bournemouth ...	mof	mof	27	32	-	-	0.0
Ventnor ...	xcz	oz	32	40	-	-	0.0
Portsmouth (S'thsea)	F	bcf	28	36	-	-	0.0
Bognor	cgbc	c	32	37	-	-	0.0
Littlehampton ...	bcfcf	cf	30	34	-	-	0.0
Worthing	c	c	30	38	-	-	0.0
Brighton	mbc	cof	32	39	-	-	0.0
Eastbourne‖... ...	fm	mf	32	38	-	-	0.0
Hastings‖	omom	omo	33	39	-	-	0.0
Folkestone	om	om	32	38	-	-	0.0
Dover	mco	mo	35	38	-	-	0.0
Tunbridge Wells ...	ofom	oom	29	37	-	-	0.0
Ramsgate	c	c	34	38	-	-	0.0
Margate	cmo	c	35	39	-	-	0.0
Deal	o	o	32	38	-	-	0.0

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* Information not usually received. P The observations at 11h. G.M.T. and at Guernsey, the sunshine readings are from an auxiliary station. § For code see page 1. †‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‖ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24,522. FRIDAY, 11th JANUARY 1929.

Observations at 13h. G.M.T. 10th

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1039·4	+3	SE	3	c	42	75	7	1500	CuNb	5	aSt	8	•
Stornoway	1033·1	+2	E	1	0	42	85	6	2500	St	10	–	10	•
Wick	1036·3	+4	S	4	c	43	85	8	1500	CuNb	8	aSt	10	•
Tiree	1032·0	0	E'S	5	0	42	85	7	1500	St	10	–	10	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1035·7	+2	SE	4	or$_0$	41	85	6	1500	Nb	10	–	10	2
Malin Head	1031·5	+2	ENE	2	od$_0$	43	92	6	800	St	10	–	10	•
Renfrew	1032·7	+1	NE'E	3	mm0	37	92	4	800	St	10	–	10	2
Edinburgh (Inchkeith)	1032·8	+2	ESE	2	0	38	97	5	800	St	10	–	10	•
Leuchars	1033·9	+2	E	3	o/r	41	85	7	800	Nb	10	–	10	2
Eskdalemuir	1032·8	+1	NNE	2	0	34	97	5	450	St	10	–	10	8
Tynemouth	1032·9	+2	SE	2	o/f	38	97	6	1500	Nb	10	–	10	•
Blacksod Point	1031·8	+1	NW	3	bc–	48	85	7	·	CuNb	6	–	6	•
Donaghadee	1030·4	+2	ENE	2	c–	42	92	7	2500	StCu	9	–	9	•
Birr Castle	1030·5	•	W	1	od$_0$d$_0$	44	97	6	800	St	10	–	10	•
Holyhead	1029·2	0	N	2	f0	45	97	2	<150	St	10	–	10	2
Liverpool (Bidston)	1029·6	0	ESE	3	od$_0$d$_0$	38	97	1	220	St	10	–	10	•
Chester (Sealand)	1029·3	0	ESE	1	od$_0$d$_0$	39	97	3	800	St	10	–	10	1
Harrogate	1032·2	+1	–	0	FF0	32	97	0	<150	St	10	–	10	•
Spurn Head	1031·0	0	SE	4	ff0	36	97	3	220	St	10	–	10	•
Birmingham (Edgbaston)	1030·0	–1	–	0	F0+	38	97	1	800	St	10	–	10	2
Cranwell	1031·4	–1	SE'S	2	od$_0$d$_0$	34	97	2	800	Nb	10	–	10	7
Gorleston	1033·8	–1	S'E	1	or$_0$r$_0$	38	97	5	800	Nb	10	–	10	•
Valentia (Cahirciveen)	1031·6	–3	N'E	3	bc–	47	92	8	450	St	2	aCu	6	2
Roches Point	1031·1	–1	NW	3	c	46	92	8	1500	StCu	9	–	9	•
Pembroke (St. Ann's H.)	1029·7	–1	NW	3	c/r	47	97	7	1500	StCu	7	aSt	9	•
Ross-on-Wye	1028·9	–1	NNW	3	c	43	92	8	2500	StCu	9	–	9	2
Leafield	1029·8	–1	SSE	2	od$_0$d$_0$	37	97	1	<150	St	10	–	10	3
Winchester (Worthy Dn.)	1030·6	–4	SSE	1	or	38	97	3	450	St	10	–	10	2
S. Farnborough	1031·1	–3	SSE	2	crr	37	92	5	800	St	6	aSt	10	2
London (Kew Obsy.)	1031·8	–3	S'E	3	orr	37	92	5	800	Nb	10	–	10	2
Croydon	1031·7	–3	SSW	3	crsrs	36	92	5	2500	St	8	aSt	10	2
Shoeburyness	1033·3	–1	SSW	2	or$_0$r$_0$	39	97	6	1500	Nb	10	–	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1033·5	–2	S'W	2	or$_0$r$_0$	38	97	5	800	Nb	10	–	10	2
Lympne	1032·6	–3	SSE	3	c+	38	85	5	1500	StCu	10	–	10	1
Scilly (St. Mary's)	1030·7	–2	W'S	4	c	48	97	5	4000	StCu	10	–	10	•
Falmouth (Pendennis)	1030·6	–2	NW	1	c.r$_0$	48	97	7	2500	Nb	6	aCu	8	•
Plymouth (Cattewater)	1030·2	–2	NW	2	c	46	97	6	220	St	9	–	9	2
Portland Bill	1029·6	–5	WSW	4	od$_0$	47	92	6	1500	St	10	–	10	•
Southampton (Calshot)	1030·9	–4	SSW	3	od$_0$	42	92	6	1500	Nb	10	–	10	2
Dungeness	1033·2	–3	SSW	2	c–	40	85	6	800	StCu	9	–	9	•
Guernsey (Fort George)	1031·2	–5	W	3	od$_0$d$_0$	45	97	4	450	St	9	aSt	10	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Heights Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1041·7	+4	SE	3	c/p	40	92	7	1500	CuNb	6	aSt	9	•
Stornoway	1037·2	+6	E	3	bc–	40	92	7	4000	Cu	4	–	4	2
Wick	1039·9	+4	SSE	3	c/prs	43	75	8	1500	CuNb	8	aSt	10	3
Tiree	1034·4	+3	E	2	c	40	97	7	800	CuNb	10	–	10	1
Nairn	1037·8	•	–	0	c	37	85	6	1500	St	8	–	8	•
Aberdeen	1038·9	+4	SE'E	4	or	39	92	6	1500	Nb	10	–	10	1
Malin Head	1033·1	+3	NE	4	ed$_0$	43	92	5	4000	Nb	2	aSt	10	1
Renfrew	1035·6	+4	ENE	4	0	38	92	6	800	St	10	–	10	•
Edinburgh (Inchkeith)	1035·3	+4	ENE	2	od$_0$	39	92	8	800	St	10	–	10	0
Leuchars	1037·1	+3	E	3	c/prs$_0$	39	92	6	2500	StCu	8	–	8	•
Eskdalemuir	1035·9	+5	NE	4	0	34	97	5	<150	St	10	–	10	•
Tynemouth	1035·7	+4	E	3	or$_0$	40	92	7	1500	Nb	10	–	10	2
Blacksod Point	1031·8	0	N	3	c	45	92	6	–	–	0	aSt	10	2
Donaghadee	1031·8	+1	E	4	c/r	41	85	7	4000	StCu	9	–	9	3
Birr Castle	1030·8	•	W	1	od$_0$d$_0$	43	97	4	450	St	10	–	10	•
Holyhead	1030·1	+2	NE'E	3	ff0	41	97	3	<150	St	10	–	10	1
Liverpool (Bidston)	1031·1	+2	E	4	f0+	36	92	3	800	St	10	–	10	•
Chester (Sealand)	1030·8	+2	ENE	2	od$_0$d$_0$	37	97	3	800	St	10	–	10	•
Harrogate	1033·5	+2	–	0	os$_0$s$_0$	32	97	1	<150	St	10	–	10	•
Spurn Head	1032·8	0	SE'E	4	c	39	92	6	2500	St	10	–	10	2
Birmingham (Edgbaston)	1031·5	+1	NE	2	FF0	36	97	1	800	St	10	–	10	•
Cranwell	1032·2	+1	SE	3	od$_0$d$_0$	33	97	3	450	St	10	–	10	•
Gorleston	1034·9	+1	S'E	1	or$_0$r$_0$	38	92	5	1500	Nb	10	–	10	0
Valentia (Cahirciveen)	1031·9	+1	–	0	c	46	92	8	800	St	9	–	9	3
Roches Point	1030·5	0	NW	3	c	47	85	8	2500	StCu	9	–	9	1
Pembroke (St. Ann's H.)	1028·5	–1	–	0	c/r	45	97	6	800	StCu	9	–	9	1
Ross-on-Wye	1029·3	+1	ENE	2	mm0	41	92	4	450	St	10	–	10	•
Leafield	1030·3	+1	SE'E	2	FF0	35	97	1	<150	St	10	–	10	•
Winchester (Worthy Dn.)	1030·1	+1	ESE	2	o6r$_0$	39	97	6	450	Nb	10	–	10	•
S. Farnborough	1030·6	+1	SSE	3	o6r$_0$	37	92	5	220	Nb	10	–	10	•
London (Kew Obsy.)	1031·9	+1	ESE	2	o6r$_0$	36	92	4	800	Nb	10	–	10	•
Croydon	1031·9	+1	S	4	o6r$_0$	35	97	5	1500	St	10	–	10	•
Shoeburyness	1033·2	+1	SE	2	od$_0$d$_0$	36	97	5	1500	Nb	10	–	10	•
Clacton-on-Sea	1033	+2	SSE	3	od$_0$	38	92	6	4000	St	10	–	10	1
Felixstowe	1033·6	+1	–	0	or$_0$	38	92	5	1500	Nb	10	–	10	0
Lympne	1032·9	+1	SE	3	o6r$_0$	35	97	5	800	Nb	10	–	10	•
Scilly (St. Mary's)	1029·8	–1	NW'N	2	c	47	97	7	4000	StCu	9	–	9	1
Falmouth (Pendennis)	1029·5	0	NE'N	1	c	45	85	7	4000	StCu	8	–	8	0
Plymouth (Cattewater)	1029·5	0	N	2	bc–	45	97	5	2500	StCu	7	–	7	0
Portland Bill	1028·6	0	–	0	c+	44	92	6	1500	StCu	10	–	10	2
Southampton (Calshot)	1030·1	0	SE	4	od$_0$d$_0$	41	97	6	800	St	10	–	10	2
Dungeness	1033·1	0	S	2	0	37	92	6	800	St	10	–	10	2
Guernsey (Fort George)	1029·9	–2	W'S	2	c.r$_0$	46	97	5	800	St	8	aSt	9	3

LONDON OBSERVATIONS.

Day 7h.-13h., Kew & Croydon. 9h.-18h., Kensington. 9h.-21h., other stations.	Height above M.S.L. in feet.	Weathers. Morning. (24 hours ended 9h.)	Weathers. Afternoon. (24 hours ended 9h.)	Weathers. Night. (24 hours ended 9h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility. To-day.
Kew	18	omrr	omr	prrm	37	34	33	5	1	0·0	*	*	5
Croydon	244	omrr	orsrs	orrm	38	33	32	7	1	0·0	*	*	4
Greenwich (Royal Obsy.)	149	crrrs	crrs	credc	38	33	30	6	1	0·0	94	75	5
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	39	34	32	6		0.0	94	70	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	or	orsor	*	38	33	*	7	1	*	*	85	*
Kensington Palace	80	omr	odr	*	38	34	32	5	1	*	(At 18h.) 90	79	*
Hampstead Observatory	450	*	*	*	36	29	27	6	Tr.	0.0	*	91	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.8	10th 10h	<0·3	11th 5h

Kew Observatory Max.	Time.	Min.	Time.
0.4	10th 21h	0·1	11th 5h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 10th ..... 17h. 15m. to 11th ..... 7h. 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	NIL	–
δ Ursæ Minoris	13.45	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.

11th–12th January, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·3	12·1	16·0
	8·2	12·1	16·1
Greenwich	8·4	12·8	16·12
	8·4	12·8	16·13
Wick	8·58	12·20	15.43
	8·56	12·21	15.45
Valentia	8.47	12.49	16.51
	8.47	12.49	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.
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.

SEA DISTURBANCE.

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

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

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

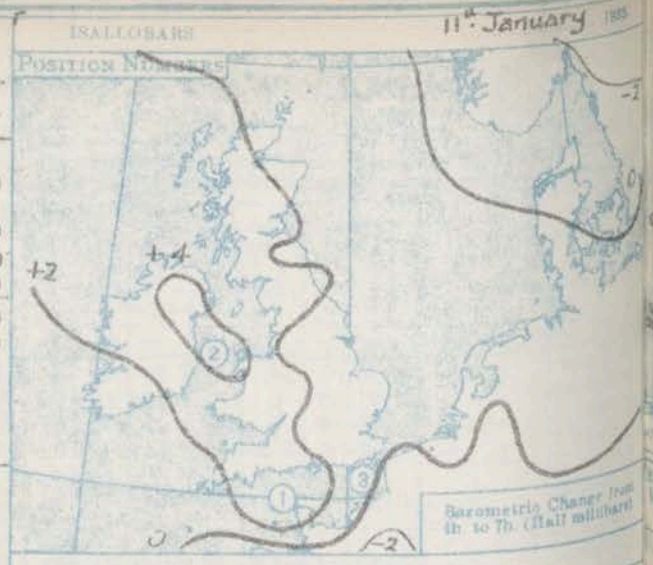
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2¾ "
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 those columns not usually received. ‡ The barometric change is expressed in half millibars.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 10h.	Weather. 18h.-18h. 10h.	Weather. 18h.10h. to 1h.11h.	Weather. 1h.-7h. 11h.	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 10h. Hours.
Lerwick	cpr₀c	c.pr₀	c	cbcb	43	34	•	Tr.	<8·00	–	–	0.0
Stornoway	o	ocbc	b.bc	bbec	42	37	•	–	–	–	–	0.0
Wick	or₀rc	eprs	o	cprc	43	39	•	0·2	<8·00	0.6	3·30	•
Tiree	o	cpd₀o	oc	c.bc	43	38	32	Tr.	19·30	–	–	0.0
Nairn	cm(₀)	cbcc	ebcx	bcc	38	34	•	Tr.	9·00	–	–	0.0
Aberdeen	orir₀	eir₀3₀oir	or₀co	od₀r₀	42	38	35	2	28·00	Tr.	<21·00	0.0
Malin Head	odm₀m₀	cd₀m₀m₀	cd₀im₀c	cbc	44	42	•	0·4	9·00	0·1	<21·00	0.0
Renfrew	omd₀	ommo	om₀	o3₀	38	36	34	Tr.	9·00	–	–	0.0
Edinburgh(Inchkeith)	od₀d₀mm	om₀id₀	o	o	39	38	35	0·6	<8·00	–	–	0.0
Leuchars	om₀or₀mi	oid₀om₀p	scrsc	co	41	37	36	2	9·00	0.4	<21·00	0.0
Eskdalemuir	om₀	om₀	oidcm	om₀	34	33	32	–	–	Tr.	<21·00	0.0
Tynemouth	off	oir	oir₀	o	41	38	36	2	14·30	0.6	<21.00	•
Blacksod Point ...	p₀cc	c	c	c	50	40	•	0·2	•	–	•	•
Donaghadee	mmir₀	eir₀	c	c	44	40	•	0·6	9·00	–	•	•
Birr Castle	od₀d₀	od₀d₀	od₀d₀	oid₀	44	39	37	0·6	9·00	1	<21.00	0.0
Holyhead	fdd Dd₀	ff	ffD.ff.rm	r.rmbcm	47	37	36	1	<8·00	1	<21·00	0.0
Liverpool (Bidston)...	odfF	od₀ff	omr₀	o	38	34	33	1	<8·00	1	22·00	0·0
Chester (Sealand) ...	ofdd₀	d₀d ff	od f	gmcm₀	39	34	33	2	<8·00	1	<21·00	0·0
Harrogate	oFF	offd₀d₀s₀	oFFsso	oc	32	32	32	Tr.	13·30	4	<21·00	0·0
Spurn Head	orof	orfo	oro	c	39	36	•	2	<8·00	0·2	22.00	0.0
Birmingham(Edgbaston)	od₀f F	fFo	ofd₀f	ofc	38	33	32	0·4	<8·00	0·1	<21·00	0.0
Cranwell	ofr₀sd₀	ofd₀	o.c	c	34	33	31	1	<8·00	0·2	<21·00	0·0
Gorleston	om₀r₀r	or₀ro	or₀rc	cq	38	33	32	1	11·00	0·3	<21·00	0.0
Valentia(Cahirciveen)	ocbc	bcc	or	cbc	48	41	39	–	–	0·1	–	1·5
Roches Point	bcc	c	coir₀	orr	49	43	•	–	–	4	24·00	•
Pembroke(St.Ann's H.)	bccd₀	cd₀m₀	cm	cr₀m	48	38	•	1	12·30	0.4	1·30	0·2
Ross-on-Wye	omcm	cod₀mom	omof	ofr₀mom	43	34	33	0·1	15·30	0·3	4.30	0·1
Leafield	offrrd	oFFid	oFo	or	37	32	31	4	<8·00	1	5·30	0·0
Winchester (Worthy Dn.)	om₀r₀ofr	or₀r₀m₀	or₀m₀o	oc	39	33	31	3	<8·00	1	<21·00	0·0
S. Farnborough ...	oir₀rm₀	r₀r₀m₀	or₀r₀	om₀	37	33	31	3	<8·00	0·1	<21.00	0.0
London (Kew Obsy.)...	om₀rr	om₀r₀	or₀rom₀	om₀	37	34	33	5	48·00	1	<21·00	0·0
Croydon	omr₀rr	orsrsr₀	om₀r₀r	om₀	38	33	32	7	<8·00	1	<21.00	0·0
Shoeburyness... ...	or₀r	bcod₀d₀	od₀m₀	om₀	39	32	31	3	9·00	Tr.	<21·00	0·0
Clacton-on-Sea ...	omgd	ogd	og	ogc	38	34	33	1	9·00	–	–	0.0
Felixstowe	omorr	bcmcR	or₀m	ocm₀	38	32	32	1	<8·00	Tr.	<21·00	0.0
Lympne	od₀d₀em₀	cor₀r₀	or₀rom₀	ocm₀	38	32	30	1	<8·00	Tr.	<21·00	0.0
Scilly (St. Mary's) ...	cormc	c	cbc	bccp	49	41	•	1	<8·00	3	2·30	0·1
Falmouth (Pendennis)	ocr₀m₀	or₀bcc	cbc	bccr₀	48	41	•	0·2	<8·00	Tr.	6·30	0.4
Plymouth(Cattewater)	codd₀m₀	cm₀bc	bcm₀o	codm₀	48	41	38	0·4	<8·00	0·1	3·30	0.0
Portland Bill	oid₀3₀	oir₀bcc3₀	como3₀	oir₀o3₀	47	39	•	1	<8·00	0·6	1·30	•
Southampton(Calshot)	or₀r₀com₀	od₀d₀m₀	or₀r₀m₀o	or₀cbc	42	36	34	1	<8·00	Tr.	<21·00	0.0
Dungeness	omm₀pr₀k	cm₀m₀	o3₀bcomm	omrm	40	35	•	0·4	9·00	1	3·30	•
Guernsey	kd₀rm₀d₀	ad₀rr1₀	r₀cor₀r₀	oir₀m₀	46	39	•	5	<8·00	3	<21·00	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
7	10th 10h.	Cambria	WNW	3	OD-	47	49	5
1	" 10h.	St Julien	SWW	4	mmo	48	50	4
3	11th 2h.	Dieppe	ESE	2	fo	38	46	6

GENERAL INFERENCE.

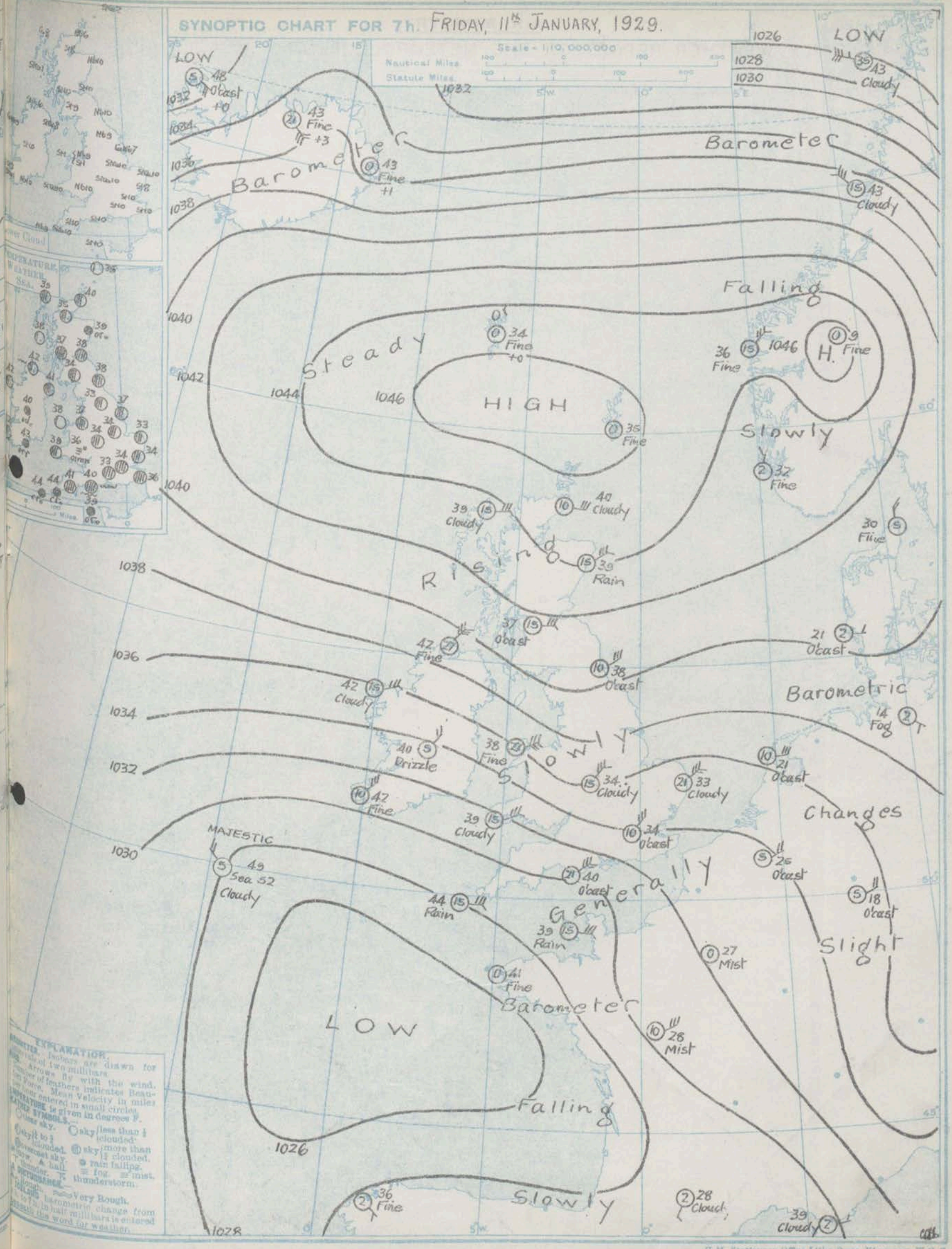
An intense anticyclone centred just to the north of Scotland will maintain cold easterly winds and cloudy weather with local wintry showers, particularly in Eastern Britain. Frost and fog will occur locally the frost being very severe in places at night.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 11th January, 1929.	Further Outlook.
1. S.E. England	ALL DISTRICTS.	Cold wintry weather with some frost and fog.
2. E. England	East to northeast winds, fresh in places; mainly cloudy with local wintry showers, particularly near the east coast; some mist or fog, night and morning; cold, frost at night, severe locally.	
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. S.E. Scotland		
12. S.W. Scotland & Isle of Man		
13. A. W. Scotland B. N.W. Scotland		
14. Mid-Scotland		
15. N.E. Scotland		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		

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

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

SYNOPTIC CHART FOR 7h. FRIDAY, 11th JANUARY, 1929.



AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....FRIDAY, 11th JANUARY.....1929. No. 11.....

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

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	64	1044.5	+2	-	0	c	40	75	7	1500	Cu	5	ASt	9
Stornoway ...	30	1041.6	+3	E	4	b-	*	*	8	*	*	*	*	0
Wick	81	1043.4	+3	SSE	4	0	40	75	8	1500	St	10	-	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1036.6	+2	NE	6	c-	43	86	7	6700	StCu	9	-	9
Renfrew	86	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	1038.5	+3	ENE	3	0	39	85	8	1500	St	10	-	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1038.1	+3	E	3	ojp	40	86	7	1500	Nb	10	-	10
Blacksod Point ...	18	1033.2	+1	N	4	c	42	92	6	*	CuNb	9	-	9
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	20	1031.9	+1	ENE	6	orr	39	97	4	450	Nb	10	-	10
Liverpool (Bidston) ...	180	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1036.2	+1	E'N	4	c-	37	85	7	4000	Nb	8	-	8
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	238	1035.7	+2	E'N	2	c	35	97	5	1500	St	10	-	10
Gorleston	14	1038.5	0	ENE	4	c	34	85	6	-	-	0	ASt	10
Valentia (Cahirciveen)P	30	1031.6	-1	E	2	or+	44	92	5	*	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1029.4	0	ENE	2	c	43	97	5	800	StCu	10	-	10
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	36	*	*	*	*	*	*	*
Croydon	244	1033.4	+1	E'S	2	o|ps	33	97	5	1500	St	10	-	10
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1035.0	0	N	2	0	33	97	5	800	St	10	-	10
Scilly (St. Mary's) ...	163	1029.2	-1	N'E	2	bc	42	97	8	4000	StCu	5	-	5
Falmouth (Pendennis)	200	1029.0	-1	N	1	bc	41	~~85~~	7	4000	StCu	5	-	5
Plymouth (Cattewater)	82	*	*	*	*	*	*	97	*	*	*	*	*	*
Portland Bill	52	1028.7	0	E'N	4	0	43	92	6	1500	St	10	-	10
Southampton (Calshot)	10	1031.7	+2	SE'E	5	0	38	85	7	1500	St	10	-	10
Dungeness	20	1033.1	+1	SE	2	mm0	36	92	4	450	St	10	-	10
Guernsey (Fort George) P	205	1029.0	-2	-	0	c	42	97	6	4000	StCu	8	-	8

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun 0-9
Lerwick	1046.2	0	-	0	b	35	92	8	1500	StCu	2	-	2	*
Stornoway ...	1043.2	+3	E	4	c	39	85	6	4000	Cu	8	-	8	3
Wick	1044.9	+1	ESE	3	c	40	75	8	1500	Nb	6	ASt	10	3
Tiree	1041.0	+2	ESE	4	b-	38	75	8	2500	StCu	1	-	1	1
Nairn	1044.3	*	-	0	c	35	85	7	1500	St	8	-	8	*
Aberdeen	1044.4	+1	ENE	4	or.	39	75	7	1500	Nb	10	-	10	1
Malin Head	1039.3	+3	NE	6	bc	42	85	7	6700	StCu	6	-	6	6
Renfrew	1041.9	+4	E	4	0	37	85	6	2500	St	10	-	10	*
Edinburgh (Inchkeith)	1041.2	+3	E	4	0	38	92	8	1500	St	10	-	10	2
Leuchars	1042.3	+5	ENE	3	0	38	85	7	2500	St	10	-	10	*
Eskdalemuir	1041.5	+1	NE	4	c	34	85	6	800	St	9	-	9	*
Tynemouth	1040.3	+2	ENE	3	0	38	75	7	1500	Nb	10	-	10	2
Blacksod Point ...	1035.0	+2	ENE	4	c	42	85	6	*	CuNb	9	-	9	5
Donaghadee	1037.7	+3	E	6	c	41	75	7	4000	StCu	8	-	8	5
Birr Castle	1033.6	*	NE	2	od.	40	92	6	450	St	10	-	10	*
Holyhead	1035.9	+5	ENE	6	b-	38	97	5	800	St	1	-	1	5
Liverpool (Bidston) ...	1037.8	+3	E'S	3	0	37	85	6	2500	Nb	10	-	10	*
Chester (Sealand) ...	1036.8	+4	E	3	c	37	85	6	2500	StCu	10	-	10	*
Harrogate	1039.8	+2	NE	2	c	33	85	7	4000	Nb	9	ASt	10	*
Spurn Head	1037.1	+1	NE'E	4	c	37	75	7	4000	CuNb	7	ASt	10	3
Birmingham (Edgbaston)	1036.6	+1	NE	4	c	34	85	6	1500	StCu	10	-	10	*
Cranwell	1036.8	+1	NE	4	c	34	85	6	1500	StCu	10	-	10	1
Gorleston	1035.5	0	ENE	5	c	33	85	6	2500	StCu	10	-	10	*
Valentia (Cahirciveen)P	1030.2	0	NE'E	3	bc	42	92	8	1500	St	4	-	4	4
Roches Point	1030.4	0	E	3	orr	43	97	7	1500	Nb	10	-	10	4
Pembroke (St. Ann's H.)	1031.6	+3	ENE	4	c	39	85	6	1500	StCu	10	-	10	2
Ross-on-Wye	1034.5	+2	ENE	4	mm0	36	92	4	800	Nb	10	-	10	*
Leafield	1034.8	+2	NE	4	0	32	92	6	800	St	10	-	10	*
Winchester (Worthy Dn.)	1033.6	+1	NNE	3	c	34	85	7	1500	StCu	9	-	9	*
S. Farnborough ...	1033.6	+1	NE	5	0	33	85	6	800	St	10	-	10	*
London (Kew Obsy.) ...	1034.5	+1	NE	3	0	34	85	5	800	St	10	-	10	*
Croydon	1034.0	+1	NE	3	0	33	92	5	800	St	10	-	10	*
Shoeburyness	1034.5	0	NE'N	4	0	33	92	6	800	St	10	-	10	2
Clacton-on-Sea ...	1034.1	0	NNE	4	c	34	75	7	4000	St	8	-	8	3
Felixstowe	1035.7	0	NNE	4	0	32	85	6	800	St	10	-	10	*
Lympne	1032.8	0	N'E	3	c	33	85	5	1600	St	10	-	10	*
Scilly (St. Mary's) ...	1028.4	0	E'S	4	cr.	44	97	7	4000	Nb	9	-	9	3
Falmouth (Pendennis)	1028.5	0	ENE	3	cr.	44	92	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1030.3	+2	E	5	0	41	92	7	1500	St	10	-	10	0
Portland Bill	1030.9	+2	ENE	5	0	40	85	6	1600	St	10	-	10	6
Southampton (Calshot)	1033.6	+3	E	5	bc-	36	85	7	1500	St	4	cSt	7	6
Dungeness	1032.9	0	E	3	0	36	92	6	800	St	10	-	10	*
Guernsey (Fort George) P	1029.4	+2	ESE	4	or.	39	97	4	450	St	10	-	10	4

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 21st to 9h. 10th	Temperature. Max. 9h. 17th. 10th	Rainfall.† Night 17h.-9h. 9th-10th	Rainfall.† Day 9h.-17h. 10th	Sunshine. Sunrise to Sunset. 10th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F	°F.	mm.	mm.	hr.
Berwick-on-Tweed	o	o	32	41	14	–	0·0
Douglas (I. o. M.) ...	of	of	39	41	8	–	0·0
Llandudno ...	odom	odmo	38	46	1	1	0·0
Colwyn Bay ...	ooro	ormo	37	47	2	2	0·0
Rhyl	o(r)	o	35	44	1	1	0·0
Wallasey	fir	fuir	34	40	5	1	0·0
Southport	or	·o	*34	38	6	0·4	0·0
Blackpool	op	·o	33	38	8	0·1	0·0
Ilkley	om	omo	29	34	14	–	0·0
Cleethorpes	orfes	sox	30	36	5	7	0·0
Skegness	srr	srd	33	37	4	1	0·0
Aberystwyth ...	rPdd	ddf	33	43	6	2	0·0
Bath	c	crm	27	44	4	2	0·0
Cheltenham ...	odo	of	33	42	2	0·3	0·0
Leamington Spa ...	or	of	27	39	3	0·1	0·0
Lowestoft	efed	eded	33	38	–	2	0·0
Harwich & Dovercourt	dof	oefbof	34	38	Trace	0·3	0·0
Maldon	mrr	ro	30	38	1	3	0·0
Southend	omr	omr	34	38	1	3	0·0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cocdo	coez	37	48	5	0·2	0·0
Penzance	orc	cr	42	50	3	1	0·0
Paignton	om	omcm	39	47	2	–	0·1
Torquay	oom	omf	41	47	–	–	0·0
Jersey	cd	rd	34	44	1	3	0·0
Weymouth	dDrc	ccbc	35	46	2	2	0·4
Bournemouth ...	o	of	29	44	5	–	0·0
Ventnor ...	od	odr	36	42	2	2	0·0
Portsmouth (S'thsea)	or.	orm	32	42	2	1	0·0
Bognor	oir	oir	33	41	1	2	0·0
Littlehampton ...	cr	cr	31	40	0·3	6	0·0
Worthing	oir.	or	33	41	0·3	4	0·0
Brighton	dor	or	35	42	Trace	2	0·0
Eastbourne	oir.o	orr.	39	41	Trace	1	0·0
Hastings	op.do	odoe	39	40	0·3	1	0·0
Folkestone	orfem	om	36	40	0·4	0·3	0·0
Dover	mr.o	moco	37	40	Trace	1	0·0
Tunbridge Wells ...	opo	or	33	38	0·3	4	0·0
Ramsgate	b	odooc	34	39	–	0·2	0·0
Margate ...	cm	dc	34	39	–	Trace	0·0
Deal	odo	doo	34	40	–	1	0·0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24523. Saturday 12th January 1929.

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. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1046.3	-1	SE	1	c	39	85	8	1500	StCu	10	–	10	•
Stornoway	1049.1	+1	SE	1	b-	41	75	8	4000	Cu	1	–	1	•
Wick	1046.3	+2	SE	3	c	40	65	8	1500	StCu	6	aSt	10	•
Tiree	1042.8	+0	ESE	2	b-	40	75	8	–	–	0	–	0	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1044.8	+0	NE	3	c	40	65	8	2500	StCu	9	–	9	2
Malin Head	1041.3	+0	ENE	5	bc	41	75	7	5700	StCu	7	–	7	•
Renfrew	1043.0	-1	NE'E	3	c-	39	75	6	2500	StCu	9	–	9	2
Edinburgh (Inchkeith)	1042.6	+0	ENE	4	o$_5$	39	85	8	1500	St	10	–	10	•
Leuchars	1044.1	-0	ENE	3	c	39	75	8	2500	StCu	10	–	10	2
Eskdalemuir	1041.7	-1	NE	5	bc	34	86	7	2500	StCu	4	–	4	7
Tynemouth	1041.1	-1	ENE	3	o	39	75	8	1500	Nb	10	–	10	•
Blacksod Point	1037.8	+2	E	5	c	41	75	6	–	–	0	aSt	8	•
Donaghadee	1040.4	+2	E	5	c	40	75	7	4000	StCu	8	–	8	•
Birr Castle	1036.9	•	NNE	3	c	41	85	5	1500	Cu	4	aSt	10	•
Holyhead	1038.0	+0	E'N	6	c	39	75	6	1500	St	9	–	9	1
Liverpool (Bidston)	1038.7	-1	ENE	3	c	36	75	5	2500	Nb	9	–	9	•
Chester (Sealand)	1038.1	-1	NE'E	2	c-	37	75	5	2500	StCu	8	–	8	1
Harrogate	1039.9	+1	NE	3	c	34	85	7	4000	Nb	9	aSt	10	•
Spurn Head	1037.7	-0	NE'E	5	c	38	75	7	5700	StCu	10	–	10	•
Birmingham (Edgbaston)	1036.1	-1	NE	4	bmc	35	75	4	1500	StCu	8	–	8	2
Cardiff	1037.1	-1	NE	4	c	35	85	7	2500	StCu	9	–	9	1
Valentia (Cahirciveen)	1036.3	-0	ENE	4	c	37	85	6	2500	StCu	10	–	10	•
Roches Point	1032.8	+2	E'S	4	bc	46	75	8	2500	StCu	7	–	7	2
Pembroke (St. Ann's H.)	1034.2	+3	E	3	c	43	85	7	1500	StCu	10	–	10	•
Ross-on-Wye	1033.0	0	E	4	c-	37	75	6	1500	StCu	9	–	9	•
Leafield	1035.3	0	NE	3	c	35	75	6	2500	StCu	10	–	10	2
Oxford	1035.0	+0	NE	4	c	33	75	7	4000	StCu	10	–	10	3
Winchester (Worthy Dn)	1034.0	-1	NNE	3	c	33	75	6	1500	St	10	–	10	2
S. Farnborough	1034.2	-1	NE	3	o	32	75	6	1500	St	10	–	10	2
London (Kew Obsy.)	1034.6	-1	NE	3	bmo	33	65	4	800	St	10	–	10	1
Croydon	1035.0	+0	NE'E	3	o$_5$	32	85	4	1500	St	10	–	10	2
Shoeburyness	1034.9	0	ENE	3	o	32	85	6	800	St	10	–	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1035.2	-1	NE	4	o	32	85	5	800	St	10	–	10	2
Lympne	1033.1	-1	NE'N	3	o$_5$o$_5$	31	85	5	800	Nb	10	–	10	1
Scilly (St. Mary's)	1029.9	+1	NE'E	6	c	44	92	6	4000	StCu	10	–	10	•
Falmouth (Pendennis)	1031.3	+1	E'N	5	c	40	85	6	4000	StCu	6	aSt	10	•
Plymouth (Cattewater)	1031.5	+1	NE	5	c	37	85	6	1500	St	9	–	9	2
Portland Bill	1031.7	+1	NE	5	c	36	75	6	1500	St	9	–	9	•
Southampton (Calshot)	1033.2	-3	NNE	5	c	35	75	6	1500	StCu	9	–	9	0
Dungeness	1033.2	-2	SE	3	o$_5$	33	85	6	800	St	10	–	10	•
Guernsey (Fort George)	1030.8	-1	ENE	5	c-	38	75	7	1500	Cu	4	aCu	8	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1044.8	-2	SE	1	c	41	65	8	1500	StCu	10	–	10	•
Stornoway	1043.6	+1	–	0	b	36	85	7	4000	Cu	2	–	2	0
Wick	1045.5	-1	E	2	c	40	65	8	1500	StCu	6	aSt	10	1
Tiree	1043.2	0	E	2	b-	36	85	8	–	–	0	–	0	1
Nairn	1045.3	•	–	0	c+	34	85	6	1500	St	9	–	9	•
Aberdeen	1044.6	0	NNW	2	c	37	85	7	2500	StCu	9	–	9	0
Malin Head	1041.7	+1	E	5	bc	41	75	6	5700	StCu	4	–	4	4
Renfrew	1043.9	+2	ENE	3	c	37	75	6	2500	StCu	9	–	9	•
Edinburgh (Inchkeith)	1042.4	+1	ENE	4	o	39	85	8	1500	St	10	–	10	2
Leuchars	1044.1	+0	NE	3	c	37	85	8	4000	StCu	10	–	10	•
Eskdalemuir	1043.1	+2	NNE	3	bc-	34	75	8	2500	StCu	6	–	6	•
Tynemouth	1041.8	+1	ENE	3	o	40	65	7	1500	Nb	10	–	10	2
Blacksod Point	1039.2	+1	E	5	bc	48	65	6	•	StCu	4	–	4	5
Donaghadee	1040.4	0	E	5	bc-	40	65	8	4000	StCu	7	–	7	5
Birr Castle	1038.1	•	ENE	1	c	37	85	6	1500	Cu	4	aSt	10	•
Holyhead	1039.0	+1	E	5	c	38	85	6	1500	St	9	–	9	4
Liverpool (Bidston)	1039.3	+1	E'N	3	c	36	65	7	1500	StCu	9	–	9	3
Chester (Sealand)	1038.7	+1	ENE	3	c	36	75	5	2500	StCu	9	–	9	•
Harrogate	1040.7	+1	NE	4	o	34	85	7	2500	St	10	–	10	•
Spurn Head	1038.3	+0	NE'E	5	c-	38	75	7	4000	StCu	8	–	8	4
Birmingham (Edgbaston)	1036.8	+1	ENE	5	c	35	75	6	2500	StCu	9	–	9	•
Cardiff	1037.9	+2	NE	3	bc-	33	85	6	2500	StCu	7	–	7	•
Valentia (Cahirciveen)	1037.6	+2	ENE	5	bc-	31	85	6	2500	CuNb	5	–	5	4
Roches Point	1034.9	+3	E'N	4	c	42	75	7	2500	St	6	–	6	3
Pembroke (St. Ann's H.)	1036.0	+3	ENE	3	c	40	75	8	2500	StCu	10	–	10	4
Ross-on-Wye	1034.5	0	E	4	c+	37	65	6	1500	StCu	10	–	10	2
Leafield	1035.5	0	NE	4	c	35	65	6	2500	StCu	10	–	10	•
Oxford	1035.7	+1	ENE	3	c	30	85	6	4000	StCu	10	–	10	•
Winchester (Worthy Dn)	1034.4	+1	NNE	3	o	31	75	6	2500	St	10	–	10	•
S. Farnborough	1034.7	+1	ENE	3	o	31	85	5	800	St	10	–	10	•
London (Kew Obsy.)	1035.7	+2	NE	4	bmo	32	75	4	800	St	10	–	10	•
Croydon	1035.4	+1	NE'N	3	mmo	31	85	4	1500	St	10	–	10	•
Shoeburyness	1035.6	+1	ENE	3	o	32	87	6	800	St	10	–	10	•
Clacton-on-Sea	1035.6	+2	NE	4	o	32	85	6	4000	St	10	–	10	3
Felixstowe	1035.8	+2	NE'N	4	o	32	85	6	1500	St	10	–	10	4
Lympne	1034.5	+2	N'E	4	o$_5$	29	75	5	800	St	10	–	10	•
Scilly (St. Mary's)	1031.3	+2	NE'N	4	c	40	85	6	2500	St	9	–	9	5
Falmouth (Pendennis)	1032.7	+1	NE	4	c	36	75	6	4000	Cu	8	–	8	1
Plymouth (Cattewater)	1032.7	+1	ENE	5	b	33	85	6	4000	StCu	1	–	1	0
Portland Bill	1032.8	+1	NE	5	b-	33	75	6	1500	St	2	–	2	5
Southampton (Calshot)	1034.3	+0	NE	4	c	33	85	6	1500	StCu	10	–	10	0
Dungeness	1034.3	+2	SE	3	o	31	92	6	800	St	10	–	10	3
Guernsey (Fort George)	1030.7	0	ESE	4	c+	37	85	6	1500	St	10	–	10	4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 Hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperatures. Max. Day. °F.	Min. Nght. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm	cm	om	35	31	30	-	-	0.0	*	*	4
Croydon	244	om	o$_5$m	omx	34	30	29	Tr.	-	0.0	*	*	4
Greenwich (Royal Obsy.)	149	cis$_0$	cis$_0$	cis$_0$c	33	30	28	Tr	Tr	0.0	82	76	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	35	31	29	-	-	0.0	83	91	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	o	o	*	33	30	*	-	-	*	*	95	*
Kensington Palace	60	com	o	*	34	31	28	-	-	*	79 (At 18h.)	89	*
Hampstead Observatory	450	*	*	*	32	26	23	Tr.	-	0.0	*	97	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time	Kew Observatory Max.	Time	Min.	Time
0.6	11th 12h	<0.3	12th 5h	0.3	11th 15h	0.1	11th 24h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 11th ..... 17h. 15m. to 12th ..... 7h. 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	NIL	-
δ Ursae Minoris	13.45	NIL	-

CODE FOR STATE OF GROUND.

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

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

12th-13th January, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.2	12.1	16.1
	8.1	12.2	16.3
Greenwich	8.4	12.8	16.13
	8.3	12.9	16.15
Wick	8.56	12.21	15.45
	8.55	12.21	15.47
Valentia	8.47	12.49	16.52
	8.46	12.50	16.54

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog. " less than 200 m.
m mist, " 1000—12000 m.
h hail. 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:—b$_o$/r = fair weather after rain; - = has decreased; + = has increased.

SEA DISTURBANCE.

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

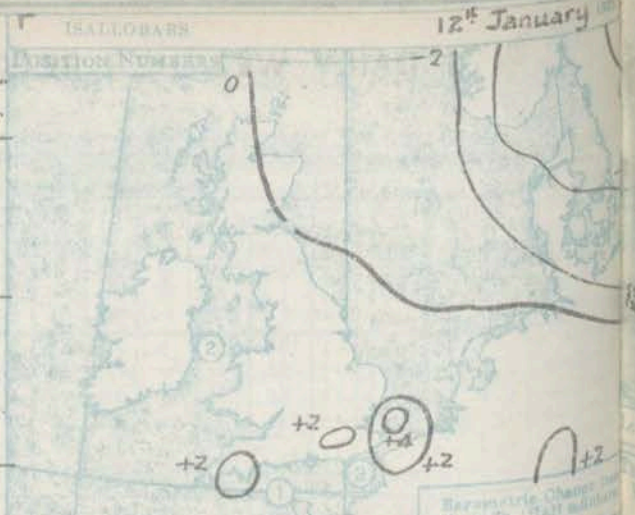
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 11th	18h.-18h. 11th	18h. 11th to 1h. 12th	1h.-7h. 12th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. min	began.	Night. 18h.-7h. mm.	began.	Sun 11th Hours.
Lerwick	bbcc	c	cpr₀	c	41	37	•	–	–	Tr.	<21.00	0.1
Stornoway	cbcb	b-bc	b-bc	b-bc	41	24	•	–	–	–	–	4.2
Wick	c	c	c	c	41	36	•	–	–	–	–	•
Tiree	bcb	b	b	b	41	28	13	–	–	–	–	6.7
Nairn	cm	cm	cxbc	bc	37	30	•	–	–	–	–	0.0
Aberdeen	circ	c	c	cbccpr	40	34	30	Tr	<08.00	Tr.	–	0.0
Malin Head	bc	bccbc₃₀	bcz₀bc	bcc	43	37	•	–	–	–	–	1.1
Renfrew	o₃₀c₃₀	c₃₀	c₃₀	c₃₀	38	35	33	–	–	–	–	0.0
Edinburgh (Inchkeith)	oir₀	o	o	ocbc	39	37	35	Tr	09.00	–	–	0.0
Leuchars	ocpr₀c	c	c	c	39	35	34	Tr	11.00	–	–	0.0
Eskdalemuir	om₀cbc	cbc	bc	bcc	34	33	32	–	–	–	–	0.3
Tynemouth	o	o	o	oir₀	40	40	34	–	–	0.2	4.30	•
Blacksod Point ...	c	cbc	bc	cb	43	36	•	–	•	–	•	•
Donaghadee	c	cbc	bc	bcb	41	39	•	–	–	–	–	•
Birr Castle	oid₀q	cm₀	cm₀	cx	41	33	23	Tr	<08.00	–	–	0.0
Holyhead	bccm₀	c₃₀	cbcm₀	bccm₀	39	35	33	–	–	–	–	0.6
Liverpool (Bidston) ...	om₀c	cm₀cc	cm₀	cm₀bc	37	33	29	–	–	–	–	0.0
Chester (Sealand) ...	cm₀	c₃₀	c₃₀bcb	bccm₃₀	37	33	27	–	–	–	–	0.0
Harrogate	c	co	ocbc	bcc	34	33	31	–	–	–	–	0.0
Spurn Head	c	c	c	c	38	36	•	–	–	–	–	0.0
Birmingham (Edgbaston)	c	mc	cbcc	c	35	30	28	–	–	–	–	0.0
Cranwell	c	c	c	c	36	28	25	–	–	–	–	0.0
Gorleston	cq	cqx	bcqxc	cq	37	30	29	–	–	–	–	0.0
Valentia (Cahirciveen)	bcp₀	bcc	bcc	c	47	35	31	0.1	11.00	–	–	1.1
Roches Point	cir₀c	c	cg	cg	45	36	•	2	<08.00	–	–	•
Pembroke (St. Ann's H.)	cm₀	cm₀	cbcm₀	bc	39	31	•	–	–	–	–	0.0
Ross-on-Wye	oc	c	cocb	bcc	36	28	25	–	–	–	–	0.0
Leafield	oc	c	c	c	33	26	22	–	–	–	–	0.0
Winchester (Worthy Dn.)	ccm₀	cm₀q	om₀	cm₀	34	29	29	–	–	–	–	0.0
S. Farnborough ...	om₀	op₅₀m₀	om₀	om₀	33	30	30	Tr	13.30	–	–	0.0
London (Kew Obsy.) ...	cm	cm	om₀	cm₀	35	31	30	–	–	–	–	0.0
Croydon	om	o₅₀m	omm₀	om₀x	34	30	29	Tr	13.30	–	–	0.0
Shoeburyness	om₀	om₀p₅₀	om₀	c	35	30	29	Tr	14.30	–	–	0.0
Clacton-on-Sea ...	coq	oq	oq	oqbc	34	31	30	–	–	–	–	0.0
Felixstowe	c₃₀₃₀	om₀	o₃₀	cbc₃₀	33	31	29	Tr	11.00	–	–	0.0
Lympne	o₅₀₅₀m₀	o₅₀m₀	om₀	om₀	34	26	26	Tr	11.00	–	–	0.0
Scilly (St. Mary's) ...	crm₀	oir₀c	c	c	46	35	•	0.1	<08.00	–	–	0.0
Falmouth (Pendennis)	cr₀m₀q	cm₀q	cbccz₀q	cz₀q	45	32	•	Tr	<08.00	–	–	0.0
Plymouth (Cattewater)	oi₀m₀cq	cbm₀q	bm₀qo	om₀q	42	32	28	Tr	<08.00	–	–	0.6
Portland Bill	oc₃₀	cbc₃₀	b oz₀	o₃₀	40	32	•	–	–	–	–	•
Southampton (Calshot)	bccm₀	cm₀	c	c	36	32	31	–	–	–	–	0.0
Dungeness	omq	o₃₀₃₀	o₃mmmx		36	28	•	Tr	11.00	–	–	•
Guernsey	oirm₀q₀	cbcq₀m₀	coirscqm	cqm₀	39	34	•	Tr	11.00	0.2	<21.00	0.0



Barometric Change (mb.) at 6h. to 7h. (GMT) Midnight

Observations from Cross-Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	11th 10h	Cambria	ENE	6	c	42	48
3	12th 2h	Brighton	E	4	c	31	40

GENERAL INFERENCE.

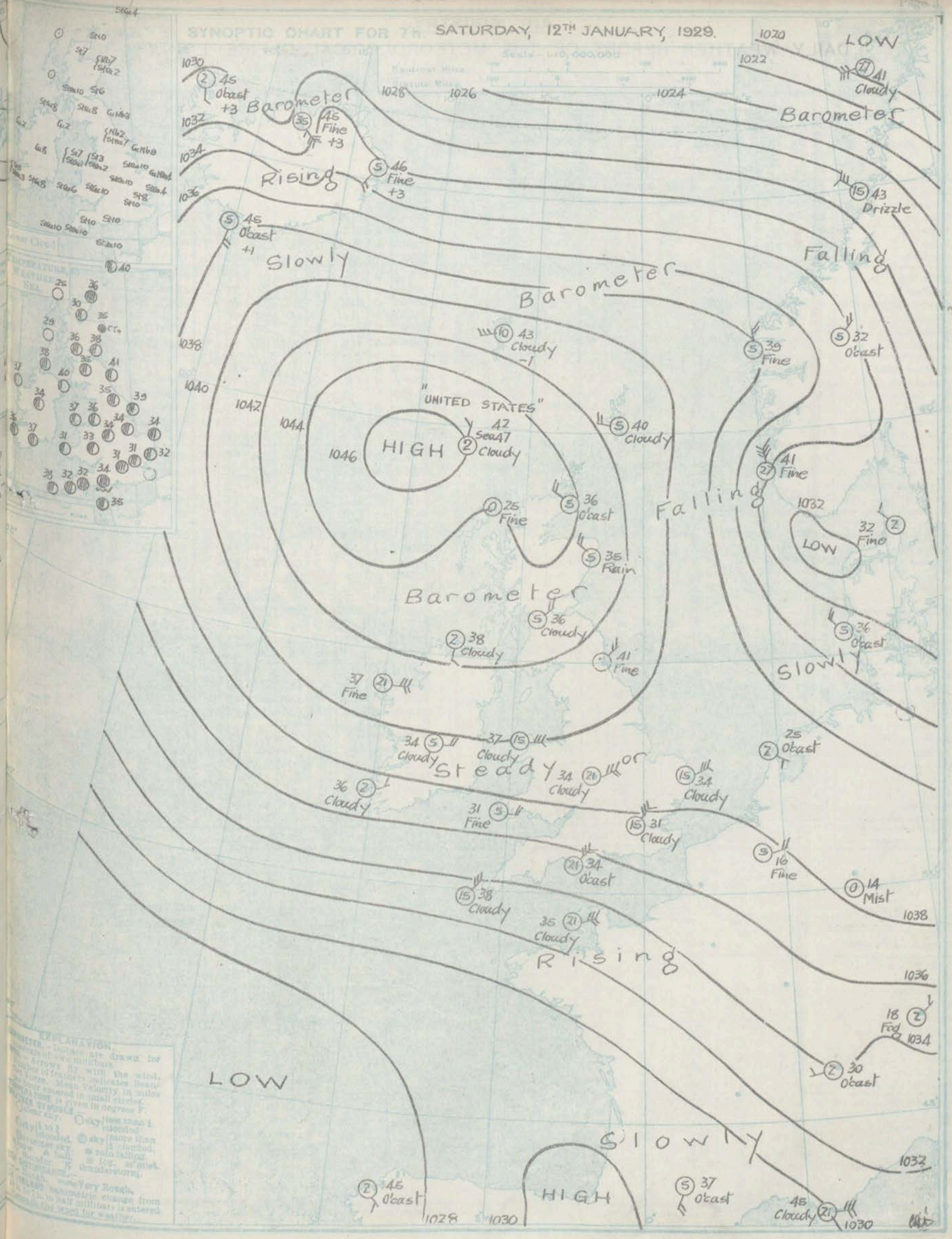
An anticyclone centred to the northwest of Scotland will maintain mainly fair weather in most districts but small secondaries moving southwards over the North Sea will give some rain or sleet at times in eastern and northern coastal districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 12th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Easterly winds, backing, moderate; mainly cloudy but some bright intervals; mist or fog locally at night; temperature rising slowly.	None issued.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Northeasterly winds, moderate or fresh; cloudy, occasional sleet or rain locally; temperature rising slowly.	
10. N.E. England 11. S.E. Scotland	Northeasterly winds, moderate to fresh; bright and cloudy periods; temperature rising slowly.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland 13. B. NW. Scotland 14. Mid-Scotland	Northeasterly to northerly winds, light to fresh; mainly cloudy, local rain or sleet; temperature rising.	
15. N.E. Scotland 16. Orkneys and Shetlands	Variable to northwesterly or northerly winds, light to moderate; bright and cloudy periods; wintry showers on high ground; temperature rising slowly.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate to fresh westerly winds; cloudy, showery; moderate temperature.	
	Easterly to variable winds; light to moderate; bright and cloudy periods; some morning mist; rather low to moderate temperature with ground frost inland at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0940 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h. SATURDAY, 12TH JANUARY, 1929.
LOW
Barometer
Rising
Slowly
Falling
Steady
HIGH
"UNITED STATES"
42
Sea 47
Cloudy
LOW
HIGH
1020
1022
1024
1026
1028
1030
1032
1034
1036
1038
1040
1042
1044
1046
2 45 O'cast +3
35 46 Fine +3
5 46 Fine +3
5 45 O'cast +1
27 41 Cloudy
15 43 Drizzle
10 43 Cloudy -1
5 39 Fine
5 32 O'cast
5 40 Cloudy
27 41 Fine
2 32 Fine
0 25 Fine
5 36 O'cast
5 35 Rain
5 36 Cloudy
2 38 Cloudy
41 Fine
37 Fine 21
5 36 O'cast
34 5 Cloudy
37 15 Cloudy
34 21 Cloudy
2 25 O'cast
15 34 Cloudy
36 2 Cloudy
31 5 Fine
15 31 Cloudy
5 16 Fine
21 34 O'cast
0 14 Mist
15 38 Cloudy
35 21 Cloudy
18 2 Fog
2 30 O'cast
2 45 O'cast
5 37 O'cast
45 Cloudy 21

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....SATURDAY....12th JANUARY....1929. No...12...

Stations.	Height above M.S.L. in feet	Observations at 1h. G.M.T....12th													Observations at 7h. G.M.T....12th												
		Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	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	Sun 0-9
Lerwick	54	1043.3	-2	W'S	2	c/pr.	41	85	7	1500	Cu Nb	4	ASt	8	1041.7	-1	W'N	2	c	40	85	8	1500	StCu	4	ASt	9	•
Stornoway	80	1044.3	0	-	0	b	•	•	8	•	•	•	•	0	1043.9	0	-	0	b	25	85	7	-	-	0	-	0	0
Wick	81	1044.7	-1	NW	1	c	36	75	8	2500	StCu	6	ASt	10	1044.3	-1	NW	2	o	36	75	8	2500	St	10	-	10	0
Tiree	32	•	•	•	•	•	•	•	•	•	•	•	•	•	1043.4	0	-	0	b-	29	85	8	-	-	0	-	0	1
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1044.2	•	-	0	bc	30	85	7	1500	St	7	-	7	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1043.4	-1	NW	2	cr.	35	85	7	1500	Nb	9	-	9	0
Malin Head	51	1042.7	0	ENE	4	bc+	40	75	7	5700	StCu	6	-	6	1043.0	0	S	1	c	38	85	7	5700	StCu	8	-	8	1
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1043.6	0	NE	2	c	36	75	6	2500	StCu	10	-	10	•
Edinburgh (Inchkeith)	190	1042.4	0	ENE	4	o	39	85	8	1500	St	10	-	10	1042.9	0	NNE	3	bc	38	85	8	1500	St	6	-	6	2
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1043.3	0	NW	2	c	37	75	7	2500	StCu	9	-	9	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1042.9	0	NNE	3	c	35	75	7	2500	StCu	8	-	8	•
Tynemouth	67	1041.7	0	ENE	2	o	42	65	7	1500	Nb	10	-	10	1041.6	0	NE	2	bc/r	41	85	7	1500	Cu Nb	3	-	3	2
Blacksod Point ...	18	1040.8	+2	E	4	bc	38	75	7	•	-	0	ACu	5	1041.5	0	E	5	b	37	75	7	•	Cu	2	-	2	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1041.4	0	E	4	b	40	75	8	4000	Cu	2	-	2	4
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1039.9	•	E	2	c-	34	85	7	2500	Cu	8	-	8	•
Holyhead	26	1039.2	-1	E	6	bc	36	85	6	2500	St	3	-	3	1040.1	0	E'S	4	c	37	85	6	2500	St	8	-	8	2
Liverpool (Bidston) ...	122	•	•	•	•	•	•	•	•	•	•	•	•	•	1040.5	0	E	3	bc-	36	75	6	4000	StCu	5	-	5	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1039.8	0	ENE	2	c+	35	75	6	2500	StCu	8	-	8	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1041.4	0	N'E	1	c	35	85	7	4000	StCu	9	-	9	•
Spurn Head	29	1039.8	0	NE'E	4	c	37	75	7	4000	Cu Nb	8	-	8	1039.3	0	NE'E	4	c	39	75	8	4000	Cu Nb	9	-	9	4
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1039.4	+2	ENE	5	c	34	75	5	2500	StCu	10	-	10	•
Cranwell	238	1038.8	0	NE	3	c	33	92	6	2500	St	10	-	10	1039.6	+1	NE'E	3	c	34	85	6	2500	StCu	10	-	10	•
Gorleston	14	1038.6	+1	ENE	5	c	35	92	7	4000	StCu	10	-	10	1039.1	+1	ENE	4	c	34	85	6	2500	Cu Nb	4	ASt	9	1
Valentia (Cahirciveen)‖	30	1036.6	0	E'N	2	bc-	38	97	8	•	Cu Nb	5	-	5	1037.1	+1	ENE	1	c	36	75	8	2500	St	8	-	8	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.1	+1	E	3	c	37	75	8	2500	StCu	8	-	8	1
Pembroke (St. Ann's H.)	150	1035.9	0	NE	3	bc-	35	75	6	1500	StCu	6	-	6	1036.5	0	E	2	bc	31	75	6	1500	StCu	6	-	6	2
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.8	0	E'N	4	c	33	75	7	4000	StCu	10	-	10	•
Lanfield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.8	0	NE	4	c	31	85	8	4000	StCu	9	-	9	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1036.8	+1	NE'N	3	c	30	75	6	1500	St	10	-	10	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.1	+2	ENE	3	o	31	75	5	1500	St	10	-	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	32	•	•	•	•	•	•	•	1037.7	+2	NE'N	4	c	31	75	6	1500	St	8	ASt	10	•
Croydon	244	1036.2	+1	ENE	3	o	30	75	6	2500	St	10	-	10	1037.2	+1	ENE	4	o	30	85	5	800	St	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.8	+1	NE	4	c	32	85	7	2500	StCu	10	-	10	3
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1037.6	+1	NE	4	bc	32	85	7	4000	StCu	4	-	4	4
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1038.1	+4	NE'E	4	bc	32	85	6	2500	StCu	7	-	7	•
Lympne	350	1035.6	+1	NE'N	4	o	27	85	5	800	St	10	-	10	1036.4	+2	NNE	4	o	28	85	5	800	St	10	-	10	•
Scilly (St. Mary's) ...	163	1030.5	0	NE	5	c	36	85	7	4000	StCu	10	-	10	1032.6	0	NE	4	c	38	85	7	4000	StCu	10	-	10	5
Falmouth (Pendennis)	200	1033.4	0	ENE	5	c	34	85	6	4000	StCu	10	-	10	1034.7	+2	NE	6	c	32	85	7	4000	StCu	10	-	10	4
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1035.3	+2	ENE	5	o	32	85	6	1500	St	10	-	10	1
Portland Bill	32	1033.9	+1	NE	4	o	33	85	6	2500	St	10	-	10	1034.5	+1	NE	5	o	34	85	6	2500	St	10	-	10	6
Southampton (Calshot)	10	1035.5	0	ENE	4	c	33	85	6	2500	StCu	10	-	10	1036.5	+2	NE'E	5	c	32	85	6	1500	StCu	10	-	10	3
Dungeness	20	1035.7	+2	ESE	3	o	29	92	6	800	St	10	-	10	1036.3		ENE	4	o	31	92	6	800	St	10	-	10	4
Guernsey (Fort George) ‖	205	1032.2	0	E	4	o/c	35	92	5	2500	Nb	10	-	10	1033.1	+1	ENE	5	c	35	85	6	1500	StCu	10	-	10	5

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min.* 9h.10th to 9h.11th	Temperature. Max. 9h.-17h. 11th	Rainfall.† Night 17h.-9h. 10th-11th	Rainfall.† Day 9h.-17h. 11th	Sunshine. Sunrise to Sunset. 11th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	o	o	33	40	-	-	0.0
Douglas (I. o. M.) ...	c	c	37	39	1	-	0.4
Llandudno ...	c	c	35	38	1	-	0.0
Colwyn Bay ...	oc.o	oc	35	38	1	-	0.0
Rhyl	o	o	35	37	1	-	0.0
Wallasey	o	oc	35	37	1	-	0.0
Southport	oco	oco	*35	37	0.4	-	0.0
Blackpool	c	c	34	37	1	-	0.4
Ilkley	c	c	32	35	3	-	0.0
Cleethorpes... ...	do	co	32	37	1	-	0.0
Skegness	oc	c	34	37	0.4	-	0.5
Aberystwyth ...	cbcc	bcc	35	39	1	-	1.8
Bath	c	c	34	35	Trace	-	0.0
Cheltenham‖ ...	c	c	34	37	Trace	-	0.0
Leamington Spa ...	o	e	33	36	0.2	-	0.0
Lowestoft	c	c	31	32	1	-	0.0
Harwich & Dovercourt	oc	oc	31	36	Trace	-	0.0
Maldon	o	o	32	33	-	-	0.0
Southend	om	om	32	33	0.3	-	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cbcc	cbc	37	44	0.1	-	1.8
Penzance	cog	og	43	43	1	-	0.0
Paignton	rpo	ogo	39	40	1	-	0.0
Torquay	orp	ogno3	39	40	1	-	0.0
Jersey	rc	bc	35	37	8	-	0.0
Weymouth	cb	bc	35	37	Trace	-	2.7
Bournemouth ...	oco	o	32	35	2	-	0.3
Ventnor ...	rmc	o3	34	35	2	-	0.0
Portsmouth (S'thsea)	cfo	o	33	35	3	-	0.0
Bognor	o	o	33	34	3	-	0.0
Littlehampton ...	cbc	bcc	33	(35)	2	-	0.2
Worthing	c	c	33	35	2	-	0.0
Brighton	codc	co	34	37	4	Trace	0.0
Eastbourne‖... ...	o	o	35	38	0.3	-	0.0
Hastings‖	o	o	34	37	0.4	-	0.0
Folkestone	om	om	34	35	-	-	0.0
Dover	ou	ou	35	35	-	-	0.0
Tunbridge Wells ...	o	o	31	32	-	-	0.0
Ramsgate	o	o	34	34	-	-	0.0
Margate	c	c	34	35	-	-	0.0
Deal	o	so	34	36	-	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. and at Guernsey, the sunshine readings are from an auxiliary station. ‡ For code see page 1. †: See footnote page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24524. SUNDAY 13th JANUARY 1929.

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. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1041·4	-1	W'N	1	cjp	41	85	8	1500	CuNb	3	A.St	8	•
Stornoway	1044·7	+1	-	0	c+	35	85	6	4000	St.Cu	8	-	8	•
Wick	1044·6	0	W	2	c	38	75	8	1500	St.Cu	6	Ci.St	8	•
Tiree	1044·9	+1	E'N	1	b	39	75	9	4000	Cu.	1	-	1	4
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1043·8	-1	WNW	3	c	38	75	7	2500	St.Cu	9	-	9	2
Malin Head	1043·8	+1	ENE	3	c	41	75	8	4000	St.Cu	8	-	8	•
Renfrew	1043·9	0	N	1	c	38	85	5	4000	St.Cu	9	-	9	2
Edinburgh (Inchkeith)	1043·1	0	NNE	3	o	38	85	8	800	St.	10	-	10	•
Leuchars	1044·3	0	W	2	c	38	85	6	4000	St.Cu	10	-	10	2
Eskdalemuir	1043·2	0	N'~~W~~E	3	c	36	85	8	4000	St.Cu	9	-	9	7
Tynemouth	1042·6	0	NNE	1	cjp	41	85	8	1500	Nb.	8	-	8	•
Blacksod Point	1042·6	+1	E	3	b	39	75	8	•	Cu.	2	-	2	•
Donaghadee	1042·1	+1	E	3	bc-	42	65	8	4000	Cu.	6	-	6	•
Birr Castle	1040·3	•	E	1	c	40	85	7	2500	Cu.	8	-	8	•
Holyhead	1040·3	-1	ENE	4	b	40	85	6	-	-	0	-	0	1
Liverpool (Bidston)	1041·1	0	E	4	nmc	39	65	4	4000	St.	9	-	9	•
Chester (Sealand)	1040·7	-1	ENE	1	c+	39	75	5	2500	St.Cu	8	-	8	1
Harrogate	1041·4	0	NNE	1	c	38	85	6	-	-	0	A.St	10	•
Spurn Head	1040·4	0	ENE	3	c	41	75	8	5700	St.Cu	10	-	10	•
Birmingham (Edgbaston)	1039·8	0	ENE	4	bc	36	75	5	2500	St.Cu	7	-	7	3
Cranwell	1040·8	0	ENE	3	c	38	85	8	2500	St.Cu	10	-	10	1
Gorleston	1040·1	+1	NE'E	3	c	38	85	6	2500	Cu.	9	-	9	•
Valentia (Cahirciveen)	1038·5	-1	E'S	3	bc	37	85	7	2500	St.Cu	7	-	7	1
Roches Point	1038·5	0	E	3	c	37	75	8	2500	St.Cu	10	-	10	•
Pembroke (St. Ann's H.)	1038·4	0	E	2	bc	38	75	7	1500	Cu.	3	A.St	6	•
Ross-on-Wye	1038·9	0	E'N	4	bc	35	65	7	4000	St.Cu	6	-	6	0
Leafield	1039·7	+2	ENE	4	c	31	75	8	4000	St.Cu	8	-	8	3
Winchester (Worthy Dn.)	1038·2	0	NE	4	c	32	75	6	1500	St.Cu	8	-	8	3
S. Farnborough	1038·7	+1	ENE	3	nmc	32	75	4	1500	St.	9	-	9	3
London (Kew Obsy.)	1039·4	0	ENE	3	nmo	34	75	4	1500	St.	10	-	10	3
Croydon	1039·0	0	NE'E	3	nmo	33	85	4	1500	St.	10	-	10	3
Shoeburyness	1039·5	+3	E'N	4	bc-	34	85	7	4000	St.Cu	6	-	6	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1039·8	+1	NE	4	bc	35	85	6	5700	Cu.	7	-	7	1
Lympne	1038·6	+1	N'E	4	bc-	30	85	5	1500	St.	7	-	7	3
Scilly (St. Mary's)	1033·8	+1	NE	5	o/rs	35	92	6	2500	St.	10	-	10	•
Falmouth (Pendennis)	1035·6	0	NE	4	c	35	85	6	4000	St.Cu	10	-	10	•
Plymouth (Cattewater)	1036·4	0	ENE	5	o	33	75	6	800	St.	10	-	10	3
Portland Bill	1038·7	+1	NE	4	o	35	75	5	800	St.	10	-	10	•
Southampton (Calshot)	1038·8	+1	NE	4	c	34	75	6	1500	St.Cu	10	-	10	0
Dungeness	1038·1	+2	ENE	3	o	31	85	5	800	St.	10	-	10	•
Guernsey (Fort George)	1034·6	-1	ENE	5	bc-	36	85	6	1500	St.	7	-	7	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1039·~~0~~1	-2	~~NE~~ W	2	cjp	42	85	8	1500	CuNb	5	A.St	10	•
Stornoway	1044·4	-1	-	0	b-	34	85	6	4000	Cu.	1	-	1	0
Wick	1044·2	-1	W	1	c	35	85	8	2500	St.Cu	8	-	8	0
Tiree	1044·4	0	E'N	1	c	36	85	8	1500	St.	9	-	9	0
Nairn	1044·5	•	-	0	bc-	29	85	8	1500	St.	3	-	3	•
Aberdeen	1043·9	0	WNW	3	c	36	85	7	2500	St.Cu	9	-	9	0
Malin Head	1043·9	0	ENE	3	c+	41	75	8	5700	St.Cu	8	-	8	0
Renfrew	1043·9	0	WNW	1	c	35	92	5	2500	St.Cu	10	-	10	•
Edinburgh (Inchkeith)	1042·8	-1	W	2	o	38	75	~~8~~7	800	St.	10	-	10	0
Leuchars	1043·5	0	W	2	c	36	85	6	4000	St.Cu	10	-	10	•
Eskdalemuir	1043·7	+1	NW'N	2	bc-	30	92	8	2500	St.Cu	2	Ci.	3	•
Tynemouth	1042·4	0	NNW	1	bc/pr	40	92	7	1500	Nb.	7	-	7	2
Blacksod Point	1042·8	0	E	4	bc	39	75	7	•	-	0	A.Cu	4	5
Donaghadee	1042·2	0	E	3	c	42	65	8	4000	St.Cu	8	-	8	3
Birr Castle	1040·6	•	NE	1	c	37	85	7	1500	Cu.	5	A.St	8	•
Holyhead	1040·7	+1	E'N	3	nmbc	38	85	4	-	-	0	-	0	1
Liverpool (Bidston)	1041·4	0	E	2	nmc	38	65	4	4000	St.	9	-	9	•
Chester (Sealand)	1041·1	0	-	0	bc-	35	85	5	2500	St.Cu	7	-	7	•
Harrogate	1042·1	0	NNE	2	c	36	97	5	-	-	0	A.St	9	•
Spurn Head	1040·3	0	NNW	2	c	39	92	7	4000	CuNb	8	-	8	2
Birmingham (Edgbaston)	1040·6	0	ENE	4	c	35	75	5	2500	St.Cu	9	-	9	•
Cranwell	1040·8	0	ENE	1	c	37	85	8	2500	St.Cu	10	-	10	•
Gorleston	1041·7	0	-	0	bc-	35	92	6	-	-	0	Ci.Cu	3	0
Valentia (Cahirciveen)	1039·1	+2	ENE	3	c	37	75	8	2500	St.Cu	8	-	8	3
Roches Point	1038·7	0	E	3	c	38	75	8	2500	St.Cu	10	-	10	1
Pembroke (St. Ann's H.)	1038·4	0	E	1	bc-	35	85	7	2500	Cu.	3	Ci.	4	1
Ross-on-Wye	1039·6	+1	ENE	3	c	33	75	6	4000	St.Cu	9	-	9	•
Leafield	1039·8	+1	NE'E	2	b-	29	85	8	4000	St.Cu	2	-	2	•
Winchester (Worthy Dn.)	1038·2	+1	NNE	2	b	29	85	5	-	-	0	-	0	•
S. Farnborough	1038·0	+1	NNE	3	nmb	29	85	4	-	-	0	-	0	•
London (Kew Obsy.)	1039·2	+1	NE'N	3	ff'bc	32	85	3	1500	St.	4	-	4	•
Croydon	1039·5	+1	NE	3	nmb	31	85	4	-	-	0	-	0	•
Shoeburyness	1038·5	0	E'N	2	b	29	85	7	-	-	0	-	0	•
Clacton-on-Sea	1039·4	0	NNE	3	bc	33	85	7	4000	Cu.	6	-	6	2
Felixstowe	1040·0	0	NNE	2	b	32	92	6	-	-	0	-	0	1
Lympne	1038·6	0	N'E	3	b	29	85	5	-	-	0	-	0	•
Scilly (St. Mary's)	1033·3	0	NE	6	o	38	92	5	2500	St.	10	-	10	5
Falmouth (Pendennis)	1035·8	0	NE'E	5	c	37	85	6	4000	St.Cu	10	-	10	4
Plymouth (Cattewater)	1036·8	+1	NE	5	o	34	85	5	1500	St.	10	-	10	0
Portland Bill	1037·2	+1	ENE	4	o	35	75	5	800	St.	10	-	10	4
Southampton (Calshot)	1038·7	0	NE'N	3	b	31	85	6	-	-	0	-	0	0
Dungeness	1038·1	0	ENE	4	bc-	35	85	6	2500	Cu.	4	-	4	2
Guernsey (Fort George)	1038·4	+2	ENE	5	bc	37	85	6	1500	CuNb	7	-	7	6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs. (Yesterday)	Humidity. 15h. G.M.T. % (Yesterday)	Humidity. 9h. G.M.T. % (To-day)	Visibility.§
Kew	18	cm	cmbcf	bfx	34	25	16	-	-	0.0	*	*	
Croydon	244	om	obm	bmx'ff	33	23	16	-	-	0.0	*	*	
Greenwich (Royal Obsy.)	149	c	cb3	b3bcx	34	23	13	-	Tr.	0.8	82	91	2
City (Bushill Row)	80	•	•	•	•	•	•	•	•	0.0	*	*	•
Westminster (St. James' Pk.)	27	•	•	•	38	28	22	-	-	0.0	79	37	•
Regent's Pk. (Botanic Gdns.)	168	•	•	•	•	•	•	•	•	•	*	*	•
Camden Square	110	c	c	•	34	28	·	-	-	•	*	97	•
Kensington Palace	80	obc	bcb	•	34	27	19	-	-	•	(At 18h) 72	87	•
Hampstead Observatory	450	•	•	•	32	26	19	Tr.	Tr.	0.1	*	98	•

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington	Max.	Time.	Min.	Time.
	1.6	ob. 12h	0.3	3h. 13h

Kew Observatory	Max.	Time.	Min.	Time.
	0.7	12h. 12h	0.2	2h. 13h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 12h. 17m. 30s. to 13h. 6m. 45s.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13·15	11·30	87
δ Ursæ Minoris	13·15	10·47	81

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 January, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·1 / 8·1	12·2 / 12·2	16·3 / 16·4
Greenwich	8·3 / 8·2	12·9 / 12·9	16·15 / 16·16
Wick	8·55 / 8·54	12·21 / 12·21	16·47 / 16·49
Valentia	8·41 / 8·46	12·50 / 12·50	16·54 / 16·55

BEAUFORT NOTATION OF WEATHER.

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

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

x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain, rr = continuous rain.

SYMBOLS.

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

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

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

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

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

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

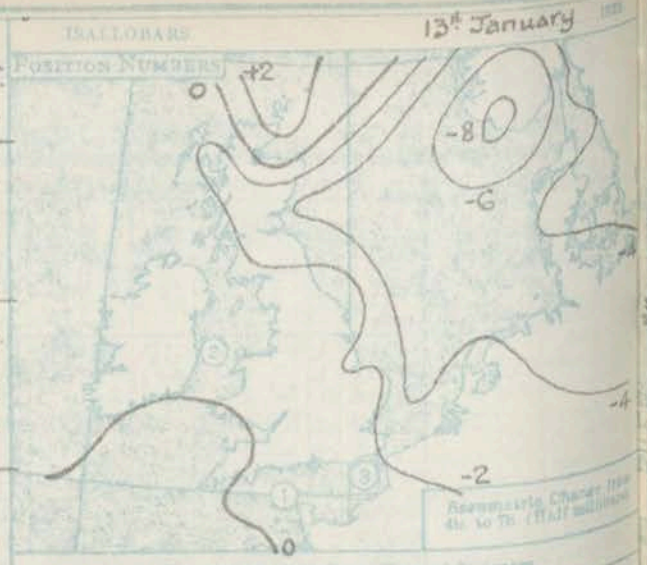
	Objects not visible at 55 yards.
0. Dense fog.	
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1½ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	13½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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 2570.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 12th	Weather. 18h.-18h. 12th	Weather. 18h. 12th to 1h 13th	Weather. 1h.-7h. 13th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 12th Hours.
Lerwick	cpr.	cpr.	cpr.	cpr bc	43	40	•	0·1	11·00	Tr.	<21.00	0·2
Stornoway	c	c	b-bc	cpr o	35	29	•	-	-	0·2	3·30	0.0
Wick	c	c	b-bc	cpr c	37	33	•	-	-	0·3	3·30	•
Tiree	b	bbcc	co	c o c	39	31	25	-	-	-	-	5.7
Nairn	bc	bcx	bc x	bc	32	28	•	-	-	-	-	0.0
Aberdeen	cpr.c	c	cbc	bcc	38	32	28	Tr	<8·00	-	-	0.0
Malin Head	c	cbcc	c	c bc	41	39	•	-	-	-	-	1·2
Renfrew	cz.	cz.	cm bc	bcbx	38	24	17	-	-	-	-	0.0
Edinburgh (Inchkeith)	bccir.	o	ocbc	bcb	40	31	27	Tr	9·00	-	-	0.0
Lanchars	cm.	cm.	cm bcm.	bcxbx	39	29	23	-	-	-	-	0.0
Eskdalemuir	c	cbc	bc	bc	36	26	20	-	-	-	-	0·9
Tynemouth	bcp.	cbcp.	bcoir.	or.r.	42	35	33	1	<8·00	2	<21·00	•
Blackpool Point ...	b	bbc	c	c	39	36	•	-	•	-	•	•
Donaghadee	bbc	bcc	c	c	42	38	•	-	-	-	-	•
Birr Castle	c	c	c	cx	41	30	20	-	-	-	-	1·8
Holyhead	bcbm.	bm.mm	bmmm.	bm.mm	40	36	32	-	-	-	-	5·1
Liverpool (Bidston) ...	bccx	cz	3com.	om.d.	39	35	28	-	-	Tr.	5.30	0.0
Chester (Sealand) ...	cz.bccm	cz.m.	bcbmxc	coff	40	31	23	-	-	-	-	1·9
Harrogate	cbcc	c	c	c	38	35	33	-	-	-	-	1·5
Spurn Head	c	cpd.	cpr	cprc	42	35	•	Tr	17·30	1	<21·00	0.0
Birmingham (Edgbaston)	cbc	bcc	c b	bbcc	36	32	25	-	-	-	-	1.1
Cranwell	c	c	c.r.	r. F	38	31	26	-	-	0·1	24.00	0.0
Gorleston	cq	bcxm.	bcm.x	bcir.	38	33	27	-	-	0·2	4.30	1·2
Valentia (Cahirciveen)	cbc	bcc	bc	c	38	36	33	-	-	-	-	0.4
Roches Point	c	c	cg	cg	39	36	•	-	-	-	-	•
Pembroke (St. Ann's H.)	cbc	cbm.	bcbm.	b	38	28	•	-	-	-	-	1·9
Ross-on-Wye	cbc	bcc	c	cx	35	26	18	-	-	-	-	3·9
Leafield	c	cbc	b	bxbc	31	24	18	-	-	-	-	2·1
Winchester (Worthy Dn.)	cm.	bmm.	bm.x	bcm.x	32	23	16	-	-	-	-	0.0
S. Farnborough ...	ocm.m	cbmx	bmx	cm.x	32	19	13	-	-	-	-	0.0
London (Kew Obsy.) ...	cm	cmbcf	bfx	ofx	34	25	16	-	-	-	-	0.0
Croydon	om	obm	bmxm.	bmxcff	33	23	16	-	-	-	-	0.0
Shoeburyness	cm.bc	bcbx	bbc	cx	34	26	22	-	-	-	-	2·0
Clacton-on-Sea ...	bc	bc						-	-			
Felixstowe	bcbbc	bccbm.	bm.	bccm.x	36	28	18	-	-	-	-	5·2
Lympne	obcm.	bcbm.	bm.x	bxbccm.	32	25	16	-	-	-	-	2·6
Scilly (St. Mary's) ...	coirs	om	omcm	cmom	40	37	•	Tr	<8·00	-	-	0.0
Falmouth (Pendennis)	cm.q	cm.q	cm.q	cq.m.	37	33	•	-	-	-	-	0.0
Plymouth (Cattewater)	ocm.q	ocm.q	om.q	bm.	34	33	31	-	-	-	-	0.0
Portland Bill	om.	om.	pm.	omcbcz.	35	32	•	-	-	-	-	•
Southampton (Calshot)	c	cm.bm.	bmxbmx	bmx	34	28	22	-	-	-	-	0.0
Dungeness	oxmmm	om.bcx	bczbz	bfc	36	26	•	-	-	-	-	•
Guernsey	cqm.bc	bcm.q	bcbm.	bbcm.	37	37	•	-	-	-	-	0·2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	12th 10h	Cambria	E'N	4	c-	41	48
1	" 10h	St. Julien	E'N	6	-	39	49
3	13th 2h	Dieppe	NE	2	bc	38	46

GENERAL INFERENCES.

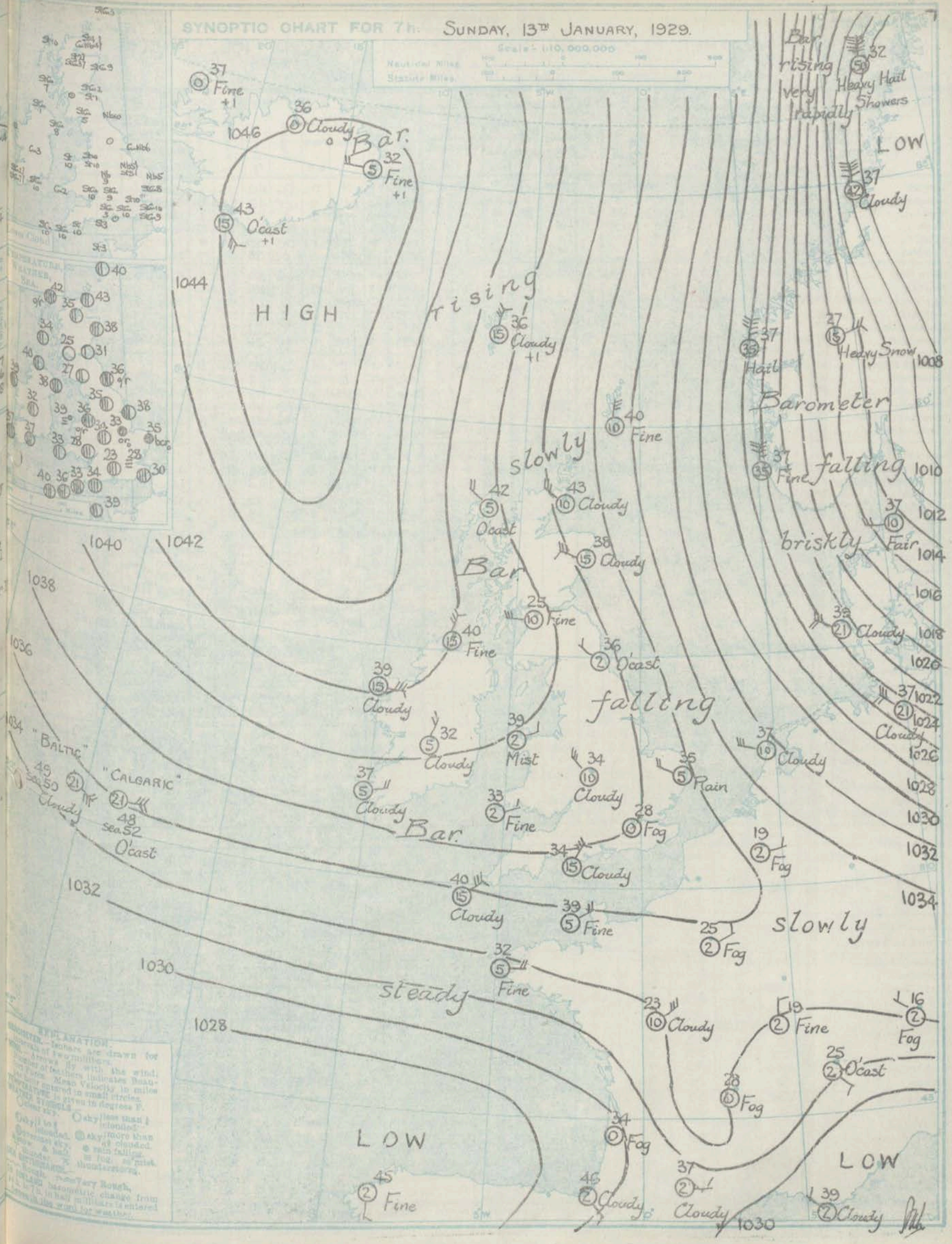
An anticyclone centred south of Iceland will maintain mainly fair weather over the Western districts, but secondaries to a deep depression over Finland, passing down the North Sea will cause some rain, hail or sleet in eastern districts, particularly near the coast.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 13th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Light variable or northerly wind, freshening somewhat later; mainly cloudy, some mist or fog, perhaps a little slight rain or sleet; temperature rising slowly.	Rather cold with northerly winds.
4. W. Midlands	Light or moderate northerly wind, freshening later; mainly cloudy, some rain or sleet; temperature rising slowly.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between N.E. and E., light or moderate; bright and cloudy periods, rather cold, with frost inland at night.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind between N.W. and N., light or moderate, fresh locally; mainly cloudy, local showers of rain or sleet; temperature moderate.	
12. S.W. Scotland & Isle of Man 13 A. W. Scotland B. N.W. Scotland	Winds variable or northerly, light or moderate; bright periods, local wintry showers; temperature moderate with frost at night.	
~~14. Mid Scotland~~ 15. N.E. Scotland 16. Orkneys and Shetlands	As 9 - 11.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly between north and east, light or moderate; mainly fair, rather cold with frost inland at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1100 G.M.T. G. C. Simpson, F.R.S., Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h. SUNDAY, 13TH JANUARY, 1929.
Scale 1:10,000,000
HIGH
LOW
LOW
"BALTIC"
"CALGARIC"
Bar. rising very rapidly
Heavy Hail Showers
Heavy Snow
Hail
Barometer falling briskly
Bar. rising slowly
Bar. falling
Bar. falling slowly
Bar. steady
1046
1044
1042
1040
1038
1036
1034
1032
1030
1028
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION.......SUNDAY,..13th JANUARY.......1929. No...13...

Stations	Height above M.S.L. in feet	Observations at 1h. G.M.T. 13th: Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	84	1035.4	-3	WNW	3	cjp	44	92	8	1500	CuNb	5	ASt	9	1034.2	+1	N	3	bc	40	75	8	1500	StCu	3	-	3	*
Stornoway	30	1043.1	-2	N	1	bc+	*	*	7	*	*	*	*	7	1040.7	-2	NW	2	o|r	42	85	6	4000	St	10	-	10	1
Wick	81	1041.0	-2	WSW	2	bc	35	85	8	2500	St	4	-	4	1037.4	+3	NW	3	c	43	85	8	1500	St	8	-	8	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.8	-1	S	1	bc	34	85	7	1500	StCu	7	-	7	1
Nairn	83	*	*	*	*	*	*	*	*	*	*	*	*	*	1038.7	*	W	1	bc	35	75	8	1500	StCu	5	-	5	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.9	-4	WNW	4	c	38	85	7	2500	StCu	9	-	9	0
Malin Head	81	1043.8	-1	N	3	c	39	75	8	5700	StCu	9	-	9	1042.1	-1	NNE	4	bc	40	92	8	5700	StCu	1	CiCu	5	1
Renfrew	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.5	-2	W	3	b	25	92	8	-	-	0	-	0	*
Edinburgh (Inchkeith)	190	1042.3	-1	NW	3	bc-	36	85	8	1600	St	5	-	5	1039.1	-3	WNW	4	b	31	92	8	1500	St	1	ACu	2	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.0	-3	W	3	b	32	75	8	4000	StCu	2	-	2	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1041.0	-2	-	0	bc	27	85	7	4000	StCu	5	ACu	7	*
Tynemouth	67	1041.1	-1	NW	2	or.r.	38	92	7	1500	Nb	10	-	10	1039.0	-2	NW	1	o|r	36	75	7	1500	Nb	10	-	10	2
Blacksod Point	18	1042.9	0	E	4	bc	39	75	6	*	-	0	ACu	7	1042.4	-1	E	4	c	39	65	6	*	-	0	ASt	10	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1040.4	-1	E	2	c	38	75	8	4000	StCu	8	-	8	2
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1040.3	*	NNE	2	c+	32	92	7	1500	Cu	3	ASt	9	*
Holyhead	26	1040.9	0	ENE	4	b	38	85	5	2500	St	1	-	1	1039.8	-1	ENE	1	mmo	39	97	4	1600	St	10	-	10	0
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.7	-1	NNE	1	o|d	36	97	6	2500	St	10	-	10	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.6	-1	NWW	2	fo+	35	97	2	1500	St	10	-	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.6	0	N	2	c	35	85	7	-	-	0	ASt	10	*
Spurn Head	29	1039.3	0	NNW	2	c|pr.	37	97	7	4000	CuNb	8	-	8	1036.9	-1	N'W	4	c	38	97	7	4000	CuNb	6	ASt	10	2
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.3	-1	NW	2	c	34	92	5	1500	Nb	9	-	9	*
Cranwell	236	1040.8	-1	NWN	1	cr.	33	97	6	2600	St	8	-	8	1038.2	-2	NW'N	3	or.	33	97	1	2500	Nb	10	-	10	*
Gorleston	14	1038.8	-2	NW	2	bc	35	92	7	4000	StCu	5	-	5	1036.4	-1	NWW	2	bcr.	35	97	7	1500	Nb	5	-	5	0
Valentia (Cahirciveen)	30	1039.8	0	E	2	bc	38	97	8	*	-	0	ASt	4	1039.4	-1	ENE	2	c	37	75	8	2600	StCu	9	-	9	4
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1038.6	0	E	3	c	37	85	8	2500	StCu	10	-	10	1
Pembroke (St. Ann's H.)	180	1038.3	0	NE	3	b-	32	85	6	-	-	0	-	0	1038.4	0	ENE	1	bc+	33	85	8	2500	Cu	2	Ci	3	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1038.7	-2	W	1	c	28	97	6	2600	StCu	10	-	10	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1038.1	-1	NW'N	1	c	30	85	7	4000	StCu	9	-	9	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.7	-1	N	2	bc	27	92	6	2500	StCu	3	-	3	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.7	-1	W'N	1	c	23	97	5	2500	StCu	10	-	10	*
London (Kew Obsy.)	18	*	*	*	*	*	29	*	*	*	*	*	*	*	1038.0	-1	-	0	ffo	28	92	3	1600	St	10	-	10	*
Croydon	244	1039.2	-1	E'N	1	b	27	97	5	-	-	0	-	0	1037.9	-1	-	0	fc+	26	97	3	2500	StCu	10	-	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.3	-1	-	0	c	31	92	7	4000	StCu	9	-	9	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*														0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.7	-4	NW'N	2	c	33	97	5	1600	StCu	8	ASt	10	*
Lympne	350	1038.0	0	N'E	3	b	30	92	7	-	-	0	-	0	1036.5	-1	NW'N	2	mc+	29	97	4	2500	StCu	10	-	10	
Scilly (St. Mary's)	163	1035.3	+1	NE	6	c-	38	92	6	2500	St	8	-	8	1035.0	0	NE	4	c	40	97	5	2500	StCu	10	-	10	5
Falmouth (Pendennis)	200	1036.5	0	ENE	5	c	36	85	6	4000	StCu	10	-	10	1036.2	0	NE'E	3	c	36	92	6	4000	StCu	10	-	10	1
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.4	0	N	2	o	33	97	6	800	St	10	-	10	0
Portland Bill	32	1037.2	-1	NE	4	o	34	85	5	1500	St	10	-	10	1036.5	-1	NE	4	c-	34	86	6	800	St	3	CiSt	10	4
Southampton (Calshot)	10	1038.8	-2	NNE	2	mb	29	92	4	-	-	0	-	0	1037.6	-1	N'W	2	b+	29	92	6	-	-	0	ACu	2	0
Dungeness	20	1038.2	+1	SE	1	b	35	92	7	-	-	0	-	0	1036.5	-2	NNE	1	c+	30	92	7	4000	StCu	9	-	9	3
Guernsey (Fort George)	205	1036.2	-1	ENE	3	c	39	92	5	4000	StCu	8	-	8	1035.0	0	NE'E	2	bc+	39	92	6	1500	St	3	-	3	1

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

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 11th to 9h. 12th (4) °F.	Temperature Max. 9h.-17h. 12th (5) °F.	Rainfall Night 17h.-9h. 11th-12th (6) mm.	Rainfall Day 9h.-17h. 12th (7) mm.	Sunshine Sunrise to Sunset 12th (8) hr.
Berwick-on-Tweed	co	co	36	42	-	-	0.0
Douglas (I. o. M.)	xbcc	cbc	32	41	-	-	3.0
Llandudno	c	c	35	39	-	-	0.2
Colwyn Bay	cbc	c	34	39	-	-	0.8
Rhyl	o	o	34	39	-	-	0.0
Wallasey	cf	fo	34	40	-	-	0.0
Southport	bbcc	ocbc	*33	39	-	-	0.4
Blackpool	c	c	33	41	-	-	1.4
Ilkley	bc	bc	32	39	-	-	0.5
Cleethorpes	oco	o	35	41	-	-	0.0
Skegness	o	o	35	40	-	-	0.0
Aberystwyth	cbc	bc	33	37	-	-	3.3
Bath	c	cbcb	30	33	-	-	1.9
Cheltenham‖	cbc	bcbbc	28	36	-	-	3.9
Leamington Spa	c	c	28	36	-	-	0.5
Lowestoft	c	cbcb	30	38	-	-	0.6
Harwich & Dovercourt	bc	bc	30	36	-	-	5.9
Maldon	cbc	bbc	29	36	-	-	2.5
Southend	omo	cbocm	31	35	-	-	2.2

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xcbcx	cbx	30	32	-	-	3.7
Penzance	og	cog	31	36	-	-	0.0
Paignton	og	om	33	35	-	-	0.0
Torquay	om	om	33	35	-	-	0.0
Jersey	(bcbf)	bf	28	36	-	-	3.5
Weymouth	c	c	31	34	-	-	0.0
Bournemouth	o	o	30	33	-	-	0.0
Ventnor	ox	oxu	29	32	Trace	-	0.0
Portsmouth (S'thsea)	om	(of)	31	34	-	-	0.0
Bognor	oc	cbc	30	36	-	-	0.4
Littlehampton	c	bcb	30	32	-	-	0.6
Worthing	c	cbc	29	33	-	-	0.9
Brighton	cobc	bc	29	33	-	-	0.6
Eastbourne	o	obm	29	33	-	-	0.7
Hastings‖	o	ocbcb	28	32	-	-	1.8
Folkestone	omcm	cm	28	34	-	-	1.7
Dover	moc	mcb	29	34	-	-	1.7
Tunbridge Wells	oc	bco	27	33	-	-	1.9
Ramsgate	obc	bcb	28	35	-	-	2.7
Margate	bc	bc	29	35	-	-	3.2
Deal	oc	bcb	28	35	-	-	2.4

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24525. MONDAY, 14th JANUARY 1929. Page 1.

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

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1034.9	0	N	3	c	38	85	8	1500	Cu	5	ASt	10	•	1034.0	-1	N	3	ors₀	36	92	7	1500	Nb	10	-	10	•
Stornoway	1039.3	-1	NW	2	obr₀	43	97	6	2500	Nb	10	-	10	•	1032.4	+1	N	3	bc-	35	92	7	4000	CuNb	4	-	4	2
Wick	1037.1	0	NE	3	c	42	85	8	1500	St	6 8	ASt	10	•	1036.5	0	NW	3	c	37	85	8	1500	CuNb	6	ASt	10	1
Tiree	1040.0	-2	N	4	c	45	85	7	2500	StCu	10	-	10	0	1038.0	-1	N	3	c	45	85	7	2600	StCu	10	-	10	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	•	1037.6	•	NNE	2	c/d	38	85	7	1500	CuNb	8	-	8	•
Aberdeen	1036.5	-1	NW	4	ocl₀	40	97	6	1500	Nb	10	-	10	1	1035.7	+1	NW	2	c	37	85	6	1600	StCu	8	-	8	3
Malin Head	1041.1	-1	S	1	c	42	85	8	5700	StCu	7	ACu	9	•	1038.6	-2	NW	4	cr₀	45	85	7	5700	StCu	9	-	9	1
Renfrew	1038.5	-4	W	2	c+	39	75	6	4000	StCu	9	-	9	3	1036.7	-3	WSW	2	mmc	35	92	4	4000	StCu	10	-	10	•
Edinburgh (Inchkeith)	1037.3	-2	W	3	mc	35	85	4	800	St	9	-	9	•	1035.8	-1	WSW	2	go-	37	92	4	450	St	10	-	10	1
Leuchars	1036.7	-3	WSW	3	c	39	75	8	4000	StCu	8	-	8	3	1036.6	0	N	2	c	40	85	8	4000	StCu	8	ASt	10	•
Eskdalemuir	1038.2	-3	-	0	c	31	85	8	4000	StCu	9	-	9	7	1035.9	-2	-	0	c/pr₀	36	85	7	2500	StCu	10	-	10	•
Tynemouth	1035.2	-4	WNW	2	c	39	75	7	1500	Nb	8	-	8	•	1034.0	-2	NW	2	o/p	40	85	7	1500	Nb	10	-	10	2
Blacksod Point	1041.4	-1	-	0	bc	40	65	9	-	StCu	5	Ci	7	•	1040.3	-1	-	0	bc	38	85	7	•	StCu	4	Ci	7	3
Donaghadee	1039.0	-1	NNE	2	bc	41	75	8	5700	StCu	4	ACu	5	•	1036.2	-2	N	3	c	44	85	7	4000	StCu	8	-	8	3
Birr Castle	1039.5	•	NE	1	c	38	85	7	2500	StCu	9	-	9	•	1038.0	•	NE	1	c	37	85	7	2500	StCu	9	-	9	•
Holyhead	1038.6	-2	NNE	3	c	41	75	7	4000	StCu	9	-	9	1	1037.0	-1	NW	3	c	41	75	7	4000	StCu	9	-	9	1
Liverpool (Bidston)	1037.7	-2	NNW	2	bc-	38	85	7	2500	StCu	1	ACu	5	•	1035.2	-3	NNW	3	bc	38	85	7	2500	StCu	4	-	4	•
Chester (Sealand)	1037.7	-3	NW	3	c-	39	92	6	4000	StCu	9	-	9	1	1035.8	-2	WN	2	c	37	85	6	4000	StCu	9	-	9	•
Harrogate	1036.2	-3	SW	2	c	36	85	7	4000	StCu	9	-	9	•	1034.4	-1	NWW	2	cr₀	37	85	7	4000	Nb	9	-	9	•
Spurn Head	1034.4	-2	NW	5	c	38	85	6	4000	StCu	10	-	10	•	1032.0	-2	NW	4	c/pr₀	38	92	6	4000	CuNb	9	-	9	2
Birmingham (Edgbaston)	1037.0	-3	NNW	2	mc+	36	92	4	1500	Nb	9	-	9	2	1034.7	-2	NNW	4	go-	36	85	4	1500	St	10	-	10	•
Cranwell	1037.0	-1	NW	3	c	38	85	6	4000	StCu	9	-	9	1	1033.6	-4	NW	3	c	37	85	5	4000	StCu	10	-	10	•
Gorleston	1034.0	-2	NWN	3	bc	40	92	6	-	-	0	ACu	6	•	1031.4	-3	NWW	3	or₀	38	92	5	2500	Nb	10	-	10	0
Valentia (Cahirciveen)	1039.4	-2	E'S	1	bc+	40	65	7	2500	Cu	1	CiCu	3	1	1038.6	0	ENE	1	c+	37	85	7	2500	StCu	5	ACu	8	3
Roches Point	1038.1	-2	NE	3	bc	40	65	8	2600	StCu	2	CiCu	4	•	1037.9	0	NE	3	c	41	65	8	1500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	1037.0	0	ENE	1	bc	38	75	8	2500	Cu	2	Ci	3	•	1036.0	0	ENE	1	c+	37	85	8	2500	StCu	9	-	9	0
Ross-on-Wye	1036.3	-3	WSW	1	c	35	85	5	800	St	10	-	10	1	1034.6	-2	W	1	mmo	35	92	4	450	St	10	-	10	•
Leafield	1036.5	-2	NNW	2	o/s(h)	34	97	4	<150	St	10	-	10	3	1034.5	-2	NW	2	mo	33	92	4	1500	St	10	-	10	•
Winchester (Worthy Dn.)	1036.5	-4	NNW	2	c	37	85	7	4000	StCu	9	-	9	3	1034.2	-2	NW	1	mmo	34	97	4	2500	St	10	-	10	•
S. Farnborough	1035.7	-3	NNW	1	c	36	85	5	1600	St	10	-	10	3	1033.7	-2	NW	1	mmo	35	97	4	1500	St	10	-	10	•
London (Kew Obsy.)	1035.7	-5	NNE	2	mmc	37	92	4	1500	St	9	-	9	3	1033.8	-2	NWW	1	mmc	36	85	4	1500	St	9	-	9	•
Croydon	1035.5	-5	NNW	1	ors₀	33	97	2	1500	St	10	-	10	3	1033.7	-2	NNW	2	go-	35	92	3	<150	St	10	-	10	•
Shoeburyness	1035.2	-2	NW	3	c	37	85	6	2600	St	9	-	9	•	1033.0	-3	NNW	3	c	35	92	6	4000	StCu	10	-	10	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.5	-2	WNW	3	c	36	92	6	5700	StCu	8	-	8	1
Felixstowe	1034.7	-3	NWN	3	c	37	97	5	2500	StCu	8	ACu	9	2	1032.3	-3	NW	3	o	37	85	6	1500	St	10	-	10	0
Lympne	1034.4	-4	NNW	3	c/s(h)	37	92	5	800	St	10	-	10	1	1032.7	-2	NW	3	mmo	34	97	4	800	St	10	-	10	•
Scilly (St. Mary's)	1034.9	-1	NEE	3	c	42	92	6	2500	StCu	8	-	8	•	1033.9	0	ENE	2	c+	41	92	7	4000	StCu	9	-	9	1
Falmouth (Pendennis)	1036.0	-2	NEE	4	bc+	39	75	7	4000	StCu	6	-	6	•	1034.9	0	ESE	3	bc-	38	75	7	4000	Cu	4	-	4	1
Plymouth (Cattewater)	1036.1	-4	E	3	b	39	85	8	2500	Cu	2	-	2	1	1035.0	0	NE	2	b	36	92	6	4000	Cu	1	-	1	0
Portland Bill	1036.2	-2	NE	4	b	39	65	6	2600	Cu	1	-	1	•	1034.1	-2	NNE	2	c+	38	75	6	2500	StCu	10	-	10	1
Southampton (Calshot)	1036.0	-3	N'E	2	bc+	39	75	6	4000	StCu	3	-	3	0	1034.7	-1	N	2	cd₀	36	92	6	1500	St	10	-	10	0
Dungeness	1034.[illegible]	-3	N	2	c	38	85	6	1500	StCu	7	ASt	9	•	1033.1	-1	N	2	mmo	35	97	4	800	St	10	-	10	2
Guernsey (Fort George)	1034.0	-4	NEE	4	b-	42	65	7	2500	Cu	2	-	2	•	1033.0	0	NEE	3	bc-	41	65	8	2500	StCu	6	-	6	3

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

Station	Heights above M.S.L. in feet	Weather: Morning	Weather: Afternoon	Weather: Night (24 Hours ended 9h.)	Temp. Max. Day °F.	Temp. Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 18h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	cfx	cm	om₀r₀m₀	38	35	33	-	0.2	0.0	*	*	5
Croydon	244	bcxffs₀	ors₀FF	ors₀mr₀q	37	34	31	0.1	1	0.0	*	*	4
Greenwich (Royal Obsy.)	149	eid₀f	cd₀c	fedien	37	36	31	Tr	1	0.0	90	89	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	38	33	31	-	-	0.0	80	83	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	-	0.0	*	*	*
Camden Square	110	xc	cdc	*	35	35	*	0.3	-	*	*	93	*
Kensington Palace	80	bcm	cmc	*	37	37	31	-	0.3	*	(At 18h)	81	*
Hampstead Observatory	450	*	*	*	36	32	28	Tr	0.3	0.0	*	97	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time
2.6	11h 13th	<0.3	4h 14th

Kew Observatory Max.	Time.	Min.	Time.
1.1	11h 13th	0.1	5h 14th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 13th 17 h. 30 m. to 14th 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.15	00.08	1
δ Ursae Minoris	13.15	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.
13th & 14th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.1 8.0	12.2 12.3	16.4 16.6
Greenwich	8.2 8.2	12.9 12.9	16.16 16.18
Wick	8.54 8.53	12.21 12.22	15.49 15.51
Valentia	8.46 8.45	12.50 12.50	16.55 16.57

BEAUFORT NOTATION OF WEATHER.

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

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

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

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

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

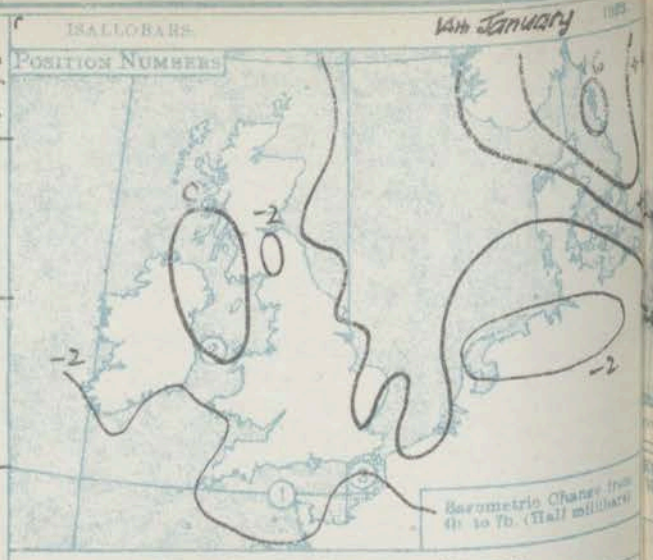
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 13th	18h.-18h. 13th	18h. 13th to 1h. 14th	1h.-7h. 14th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass	Rainfall.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm	began.	Sun 13th Hours.
Lerwick	bcc	cors	cpr.d.	cprs.	40	35	•	Tr.	16.30	Tr	<21.00	0.0
Stornoway	oco pr.	0pr.bc	b-bc	bcpr.c	43	34	•	1	12.30	0.2	3.30	0.0
Wick	cpr.c	c	cpr.c	c 45	43	35	•	05	9.00	0.4	<21.00	•
Tiree	cpd.o	co	cbcc	cbcc	~~45~~	39	34	Tr.	9.00	–	–	0.1
Nairn	bccq	cD	cbc	bc	39	35	•	1	14.30	–	–	0.0
Aberdeen	cbccoid.m	oid.mcz.	bccir.3.	cir.	41	35	31	0.4	12.30	0.2	<21.00	0.3
Malin Head	bcc	c	cpr.	cv	46	40	•	Tr.	17.30	Tr	22.00	0.6
Renfrew	bxcz.	cz.z	cm	cmbx	39	29	20	–	–	–	–	2.5
Edinburgh (Inchkeith)	bbccm.	cmmo.f	amir.cbc	bbcc	38	35	28	–	–	0.3	22.00	0.1
Leuchars	bbcc	c	c	c	40	34	28	–	–	–	–	0.3
Eskdalemuir	bcc	cpr.	pr.c	c	38	30	28	Tr.	17.30	Tr	<21.00	0.1
Tynemouth	oc	cir.	oir.q	cir.q	41	36	33	0.4	14.30	1	<21.00	•
Blacksod Point ...	c	c	cpr.	p.c	40	35	•	–	•	1	•	•
Donaghadee	cbc	bcc	c	cpr.	44	38	•	–	–	1	3.30	•
Birr Castle	c	c	cxps.	cm.	38	29	19	–	–	0.1	24.00	0.0
Holyhead	mm.f.f.c	c	c.m.	cm.d.	42	39	37	–	–	0.2	5.30	0.0
Liverpool (Bidston) ...	cc bc	bcbbc	bcor.	r.c	39	35	33	–	–	1	22.00	0.5
Chester (Sealand) ...	d.f.f.m.c.m.	b, cm.	cm.DDm	DDmc	40	36	34	Tr	<8.00	1	22.00	0.5
Harrogate	c	cir.	codd	c	37	34	32	Tr.	17.30	0.2	<21.00	0.2
Spurn Head	cprc	c	bdebccprbd	bccq	38	37	•	0.1	<8.00	1	<21.00	0.2
Birmingham (Edgbaston)	cps.m	cm	ors.m	ocm	36	33	31	0.3	<8.00	0.5	22.00	0.0
Cranwell	o.f.d.c	c m.	cm.ir.	obccr.	39	34	–	0.1	<8.00	0.4	<21.00	0.3
Gorleston	bcir.	bcc	cr.rc	cpr.	40	36	35	0.6	<8.00	0.5	<21.00	0.3
Valentia (Cahirciveen)	cbc	bcc	bcbw	bwbcwc	41	32	26	–	–	Tr	–	4.7
Roches Point	cbc	bcc	cbc	bcc	44	36	•	–	–	–	–	•
Pembroke (St. Ann's H.)	bcm	bcc	c	cbc	41	35	•	–	–	–	24.00	7.0
Ross-on-Wye	com.cm	cond.gom	gomr.	rom.rcm	35	34	31	Tr.	15.30	0.6	~~3.30~~	0.0
Leafield	~~[illegible]~~	~~[illegible]~~	crs.	crs.	34	29	29	0.1	9.00	0.1	24.00	0.0
Winchester (Worthy Dn.)	bcm.xc	com	om	omr.	37	33	32	Tr.	–	0.4	1.30	0.7
S. Farnborough ...	cm.x.p.s.	cr.r.o	om	or.r.	37	33	32	Tr.	9.00	0.5	6.30	0.0
London (Kew Obsy.) ...	cf.x	cm	om.r.	om.r.cm.	38	35	33	–	–	0.2	24.00	0.0
Croydon	bcoxf.f.s.	ors. FF	o.f.m.rs.m	omc r.r.	37	34	31	0.1	<8.00	1	22.00	0.0
Shoeburyness	cm.	cm.	cm.oid	op	37	34	34	–	–	0.2	<21.00	0.0
Clacton-on-Sea ...	bbccm	cm	cmog	ogpc	36	35	33	–	–	0.4	24.00	0.4
Felixstowe	cmr.	cm.oz.	o3.	o3.cm.	38	35	34	0.2	<8.00	Tr	6.30	0.1
Lympne	cr.ssm.	ors.d.d.	opram	omm.	37	32	31	Tr.	12.30	0.4	22.00	0.1
Scilly (St. Mary's) ...	cm	cmcc	cbc	bcc	42	37	•	–	–	–	–	3.8
Falmouth (Pendennis)	cm.bc	bc	bco	c	40	34	•	–	–	–	–	3.9
Plymouth (Cattewater)	om.b	bm.	bm.	bxom.	40	33	23	–	–	–	–	6.9
Portland Bill	cbz.	bccz.	com.	obccz.	41	35	•	–	–	–	–	•
Southampton (Calshot)	bm.xbcm.	bccbrid.r.	cd.m.cm.	cd.d.m.	40	35	33	Tr.	15.30	0.2	<21.00	4.2
Dungeness	czcz	cz.omm	omb.rf	offommo	38	33	•	–	–	0.1	24.00	•
Guernsey	bcm.	bcm.	bcc	cr.m.	42	39	•	–	–	Tr	6.30	5.3



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
3	14th 2h	Brighton	NE	2	r.r.	40	46	

GENERAL INFERENCE.

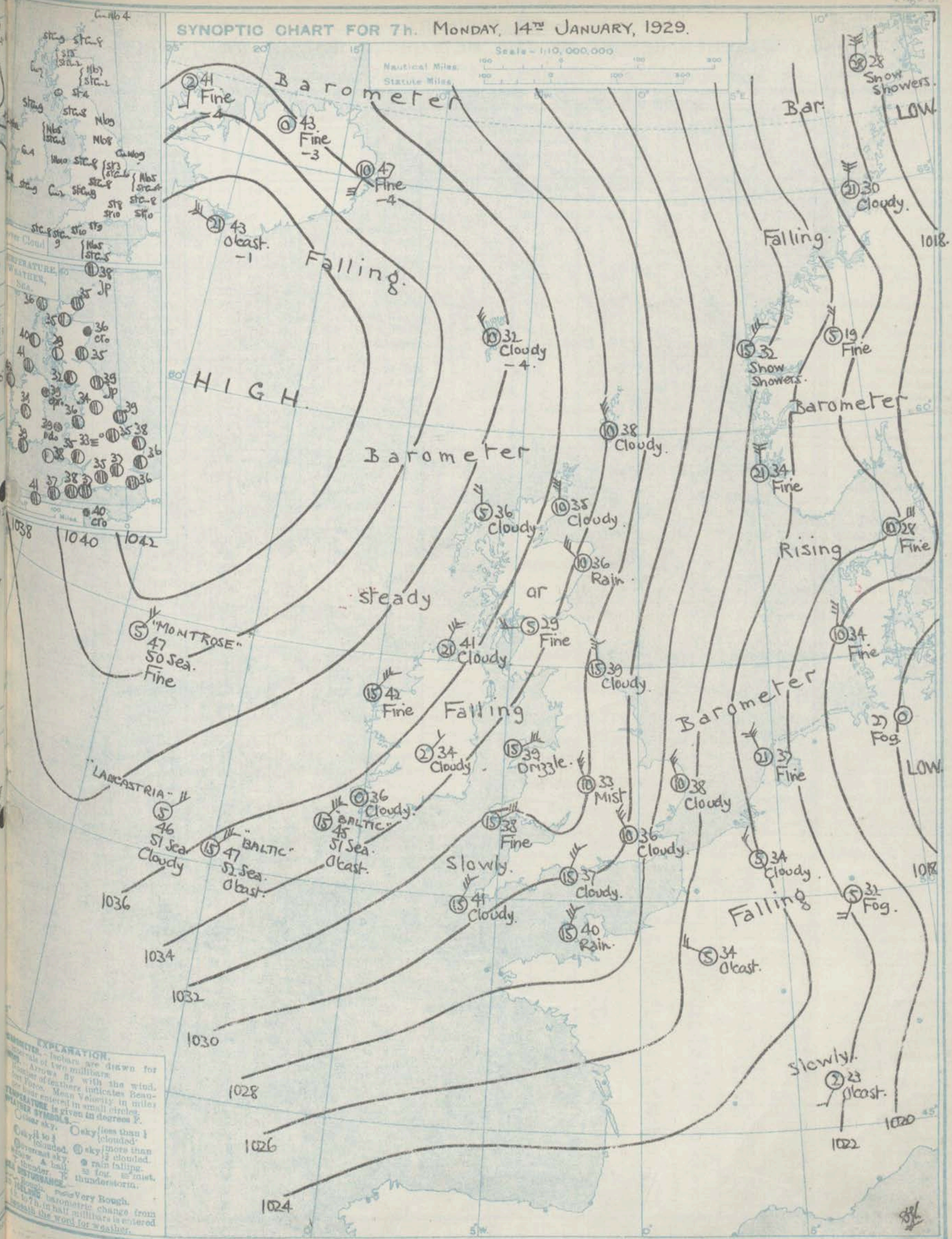
The anticyclone remains centred between Iceland and Scotland. Secondaries associated with a depression over Finland are moving south or southwest across the British Isles. North to northeast winds will continue with mainly cloudy rather cold weather and some wintry precipitation in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 14th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Northerly to northeasterly winds, light to moderate, fresh locally; cloudy, some light rain or sleet; rather cold, local ground frost.	Northeasterly winds with some wintry precipitation.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Northeasterly winds, light to moderate, fresh locally; mainly cloudy, some brighter periods, showers of rain or sleet; rather cold, local ground frost.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Northerly to northeasterly winds, light to moderate, fresh locally; cloudy, some rain or sleet, snow on high ground; cold.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid Scotland	Northeasterly winds, light to moderate, fresh locally; mainly cloudy, some brighter periods, showers of rain, sleet or snow; cold, frost in places.	
15. N.E. Scotland 16. Orkneys and Shetlands	Moderate or fresh N. to N.E. winds; cloudy, occasional rain or sleet, changing to snow; cold.	
17. N.W. Ireland	As 12 - 13B.	
18. N.E. Ireland 19. S.E. Ireland	As 5 - 8.	
20. S.W. Ireland	As 12 - 13B.	

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

† For code see page 1

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


SYNOPTIC CHART FOR 7h. MONDAY, 14TH JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometer
Falling.
HIGH.
Barometer
steady
or
Falling
Slowly.
Falling
Bar.
LOW.
Falling.
Barometer
Rising
Barometer
Falling
Slowly.
LOW.
"MONTROSE"
"LANCASTRIA"
"BALTIC"
"BALTIC"
1018.
1036
1034
1032
1030
1028
1026
1024
1022
1020
1018
1038
1040
1042
EXPLANATION.
Very Rough.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....MONDAY, 14th JANUARY...1929. No...14...

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.‡ 0-9	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. 14th: Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun 0-9
Lerwick	54	1032.9	-1	N	4	cdo	37	85	8	1500	CuNb	5	ASt	8	1032.8	0	N'W	3	cjp	38	75	8	1500	CuNb	4	ASt	8	*
Stornoway	30	1038.7	-1	N	3	bc-	*	*	8	*	*	*	*	3	1037.8	-1	N	2	c	36	92	7	4000	StCu	9	-	9	2
Wick	81	1035.8	-1	N	3	o	37	85	8	1500	St	10	-	10	1034.4	-1	N	3	c	35	85	8	2500	StCu	8	-	8	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.7	0	NNE	5	bc	40	75	7	2500	Cu	7	-	7	4
Nairn	83	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.3	*	W	1	bc	35	85	8	1500	St	7	-	7	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.7	-1	NW	3	cro	36	85	7	1500	Nb	9	-	9	0
Malin Head	81	1036.9	-1	N	5	c	43	85	8	5700	StCu	9	-	9	1036.8	0	NNE	5	c	41	65	9	5700	StCu	9	-	9	3
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.8	0	W	2	b-	29	92	7	-	-	0	Ci	1	*
Edinburgh (Inchkeith)	196	1034.9	0	N	2	b	37	75	8	-	-	0	ACu	1	1034.5	0	N	2	c+	35	75	8	1500	St	4	ASt	9	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.7	-1	WNW	1	c	36	75	7	2500	StCu	9	-	9	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.7	-2	N'E	3	c	32	75	7	2500	StCu	8	-	8	*
Tynemouth	67	1032.1	-2	NNW	2	c/r	38	85	7	1500	Nb	8	-	8	1031.9	-1	N	4	cjp	39	85	7	1500	Nb	9	-	9	2
Blacksod Point ...	18	1038.0	-2	NW	1	bc/po	41	85	8	*	CuNb	7	-	7	1036.9	-1	NE	4	bc	42	85	8	*	CuNb	7	-	7	5
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.4	+1	ESE	3	c/pro	39	85	7	4000	Nb	8	-	8	3
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.4	*	NE	1	c	34	92	6	1500	Cu	4	ASt	10	*
Holyhead	26	1034.3	-2	NE	2	c	42	85	6	2500	St	8	-	8	1033.7	0	E'N	3	odo+	39	97	6	1500	Nb	10	-	10	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.2	-1	NE'N	3	c	36	85	7	4000	StCu	8	-	8	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.2	-1	NNW	3	c-	36	85	6	4000	StCu	8	-	8	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.2	0	NW	3	c	34	85	7	4000	Nb	8	ACu	9	*
Spurn Head	29	1030.1	-1	NW'N	4	bc	38	92	7	4000	CuNb	6	-	6	1029.0	0	N	5	c	39	85	7	4000	CuNb	9	-	9	3
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.4	-1	NW	3	mmc	33	97	4	2500	StCu	8	-	8	*
Cranwell	250	1031.9	-2	NNW	3	o	36	97	6	2500	St	10	-	10	1031.4	-1	NNW	4	c/r	35	97	6	2500	StCu	9	-	9	*
Gorleston	14	1029.0	-2	N'W	3	o	39	97	7	2500	Nb	6	ASt	10	1027.7	-1	N'W	3	c	38	92	7	2500	Nb	9	-	9	0
Valentia (Cahirciveen) ‖	30	1037.7	-1	NE	1	b	35	97	8	-	-	0	-	0	1035.9	-2	-	0	c	36	85	8	4000	StCu	8	-	8	3
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.1	-3	NW	3	c	39	85	8	2500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	150	1033.7	0	-	0	c	37	75	8	2500	StCu	10	-	10	1031.7	-2	ENE	2	bc-	38	85	8	2500	Cu	2	ACu	4	0
Ross-on-Wye	226	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.8	-1	N'W	2	c	35	92	5	2500	StCu	9	-	9	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.1	-1	N'W	4	c	34	92	8	4000	StCu	9	-	9	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.4	-1	NW'N	3	mmc	35	92	4	800	StCu	10	-	10	*
S. Farnborough ...	287	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.7	-1	N'W	2	o/r	35	92	5	1500	St	10	-	10	*
London (Kew Obsy.) ...	18	*	*	*	*	*	36	*	*	*	*	*	*	*	1029.8	0	N	3	c	37	85	6	1500	St	8	ASt	10	*
Croydon	244	1030.7	-3	NW	2	mmo	34	97	4	800	Nb	10	-	10	1029.5	-1	N'E	3	c	36	92	5	1500	Nb	10	-	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.6	-1	NNW	3	c/pro	36	92	7	1500	StCu	10	-	10	1
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.4	-1	WNW	3	c	36	92	7	4000	StCu	8	-	8	1
Felixstowe	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	-3	NNW	3	cro	36	92	6	800	StCu	9	ASt	10	1
Lympne	350	1028.9	-2	NW	4	mmo	34	97	4	450	St	10	-	10	1027.9	0	NNW	4	o	35	92	6	800	St	10	-	10	*
Scilly (St. Mary's) ...	163	1032.8	-2	NE'N	2	bc-	39	75	7	4000	StCu	4	-	4	1031.5	-1	N'E	4	c	41	75	8	4000	StCu	8	-	8	1
Falmouth (Pendennis) ‖	260	1033.3	-2	-	0	c+	37	75	7	4000	StCu	10	-	10	1031.4	-1	NE'N	2	c	37	75	7	4000	StCu	9	-	9	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.9	-1	N	4	o	38	85	6	1500	St	10	-	10	0
Portland Bill	32	1031.0	-4	N	3	o	37	85	5	1500	St	10	-	10	1029.6	-1	NNE	4	c	37	85	6	1500	St	9	-	9	2
Southampton (Calshot)	10	1031.2	-3	NW'N	3	cdo	36	92	6	1500	St	10	-	10	1030.4	-2	N'W	4	cdodo	36	92	6	1500	St	10	-	10	0
Dungeness	20	1029.3	-3	NW	2	cfo	35	97	3	450	St	10	-	10	1027.8	-2	N	3	o	36	92	7	800	St	10	-	10	3
Guernsey (Fort George) ‖	295	1031.6	-3	NNE	1	[illegible]	40	75	6	4500	StCu	10	-	10	1029.8	-1	NNE	4	cro	40	92	6	1500	Nb	10	-	10	4

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

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 12th to 9h. 13th. °F.	Temperature. Max. 9h.-17h. 13th. °F.	Rainfall.† Night 17h.-9h. 12th-13th. mm.	Rainfall.† Day 9h.-17h. 13th. mm.	Sunshine. Sunrise to Sunset. 13th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	o	31	42	-	-	0.0
Douglas (I. o. M.) ...	b	c	35	40	-	-	4.3
Llandudno ...	c	c	35	41	-	-	0.8
Colwyn Bay ...	cbbc	c	36	40	-	-	0.9
Rhyl	c	c	32	41	0.5	-	0.5
Wallasey	oc	bcc	34	40	-	-	0.4
Southport	ocbcc	oco	*32	39	-	-	0.9
Blackpool	bc	co	33	40	-	-	1.5
Ilkley	bc	bcc	34	39	-	-	0.7
Cleethorpes	orco	oc	36	40	1	-	0.0
Skegness	bpro	co	34	39	0.6	(Trace)	0.0
Aberystwyth ...	xzbc	cz	26	36	-	-	1.4
Bath	bcc	bccp	21	35	-	Trace	0.0
Cheltenham ...	osm	om	25	35	-	Trace	0.0
Leamington Spa ...	om	cm	25	38	0.1	-	0.0
Lowestoft	c	rc	32	40	0.2	0.1	0.4
Harwich & Dovercourt	xbcm	bcmdo	28	38	Trace	Trace	0.2
Maldon	mbcc	cm	28	37	-	-	0.2
Southend	ofro	cfo	30	38	Trace	0.1	0.3

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xcbc	bcbz	27	40	-	-	6.2
Penzance	cmb	b	33	42	-	-	5.0
Paignton	cbcbc	bm	32	40	-	-	?
Torquay	cmcbc	b	33	40	-	-	4.1
Jersey	bz	bc	29	42	1	-	5.7
Weymouth	xb	b	29	41	-	-	7.1
Bournemouth ...	b	bo	26	40	-	-	5.5
Ventnor ...	xbz	bbcz	31	41	-	-	4.7
Portsmouth (S'thsea)	fbm	cm	27	41	-	-	3.3
Bognor	bobcc	cro c	29	40	-	Trace	2.9
Littlehampton ...	blbc	bcc	26	38	-	-	2.9
Worthing	cbc	c	28	39	-	-	1.8
Brighton	cbco	cod	29	38	-	Trace	0.6
Eastbourne‖	co	of	28	39	-	-	0.2
Hastings‖	xcobc	comdo	29	38	0.3	Trace	0.9
Folkestone	xczcm	rom	29	39	-	1	0.6
Dover	mcbcdc	rmrco	31	38	-	0.1	0.1
Tunbridge Wells ...	omopo	om	26	36	-	Trace	0.0
Ramsgate	o	odo	31	39	-	0.3	0.0
Margate	bc	cpc	30	39	-	Trace	0.0
Deal	oco	co	30	37	-	-	0.1

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24.526 Tuesday, 15th January 1929. Page 1.

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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1029.5	-4	NNW	3	c/ps₀	35	92	7	1500	St.Cu	9	-	9	•
Stornoway	1036.5	-2	N	1	bc	36	92	7	4000	St.Cu	4	A.Cu	5	•
Wick	1033.6	-1	NNW	3	c/pr₀	36	92	8	1500	Nb	6	A.Cu	10	•
Tiree	1036.5	-1	NE	5	c	40	65	9	2500	St.Cu	9	-	9	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1032.6	-2	WNW	3	cjp	38	85	7	2500	St.Cu	7	Ci.Cu	8	1
Malin Head	1038.9	0	NNE	4	c	41	75	9	5700	St.Cu	9	-	9	•
Renfrew	1035.0	-2	WSW	2	b-	37	75	6	4000	Cu.	1	Ci.	2	1
Edinburgh (Inchkeith)	1033.9	-1	WNW	4	c	37	75	8	4000	St.Cu	6	A.Cu	9	•
Leuchars	1033.9	-2	NW	3	c	37	65	8	4000	St.Cu	7	Ci.	9	3
Eskdalemuir	1034.4	-2	NNW	3	c	34	75	8	4000	St.Cu	8	-	8	7
Tynemouth	1031.7	-1	NNW	2	bcjp	37	85	7	1500	Cu.Nb	6	-	6	•
Blacksod Point	1037.1	0	NE	4	bc/pr₀	41	75	8	*	Cu.Nb	7	-	7	•
Donaghadee	1034.7	+1	ENE	1	c	40	65	8	4000	St.Cu	8	-	8	•
Birr Castle	1035.2	•	N	2	bc-	39	85	7	1500	Cu.	3	A.Cu	7	•
Holyhead	1033.7	-1	NE	3	bc	42	75	8	4000	Cu.	5	A.Cu	5	1
Liverpool (Bidston)	1033.2	-1	N	2	c	38	75	7	4000	St.Cu	9	-	9	•
Chester (Sealand)	1032.8	-1	N	3	mmc	38	75	4	5700	St.Cu	9	-	9	1
Harrogate	1032.0	0	N'W	3	c	37	85	7	4000	Nb.	6	A.Cu	9	•
Spurn Head	1029.6	0	N'W	4	bc	40	85	7	4000	Cu.Nb	4	A.Cu	7	•
Birmingham (Edgbaston)	1031.7	-1	NNW	3	ffc	37	85	3	2500	St.Cu	9	-	9	2
Cranwell	1031.0	0	NNW	4	cr₀	38	92	7	2500	Cu.Nb	9	-	9	1
Gorleston	1027.5	0	N	4	bc-	41	92	7	4000	Cu.	3	-	3	•
Valentia (Cahirciveen)	1034.8	-3	E'S	1	bc	42	85	8	1500	St.Cu	7	-	7	1
Roches Point	1034.0	-1	N	3	c	42	85	8	4000	St.Cu	10	-	10	•
Pembroke (St. Ann's H.)	1032.7	0	NE	1	c+	41	75	7	2500	St.Cu	7	A.St	10	•
Ross-on-Wye	1031.5	-1	N	2	c	38	85	6	4000	St.Cu	9	-	9	1
Leafield	1031.0	0	N'W	3	c	35	85	6	4000	St.Cu	10	-	10	3
Winchester (Worthy Dn.)	1030.0	-1	NNW	2	c	37	85	6	4000	St.Cu	10	-	10	2
S. Farnborough	1029.5	-1	NNW	3	c	38	85	6	1500	St.	10	-	10	1
London (Kew Obsy.)	1029.4	-2	N	3	c	39	75	5	1500	St.	9	-	9	1
Croydon	1029.7	0	NE	4	mmc	38	85	4	800	St.	10	-	10	2
Shoeburyness	1027.7	-1	NW	4	b-	40	85	8	7200	Cu.	1	A.Cu	2	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1027.8	-2	NNW	3	bc	42	75	7	2500	Cu.	7	-	7	1
Lympne	1027.7	-1	NNW	4	c	37	85	6	1500	St.Cu	9	-	9	2
Scilly (St. Mary's)	1031.7	0	NNE	2	c	40	85	7	4000	Cu.	8	-	8	•
Falmouth (Pendennis)	1031.7	-1	NNW	2	c	41	75	6	4000	St.Cu	10	-	10	•
Plymouth (Cattewater)	1031.4	-1	NE	3	c-	42	75	7	4000	St.Cu	~~10~~ 9	-	~~10~~ 9	1
Portland Bill	1030.0	0	N	3	c	39	75	5	1500	St.Cu	10	-	10	•
Southampton (Calshot)	1030.3	-1	N	3	c	38	85	6	1500	St.Cu	10	-	10	1
Dungeness	1027.5	-2	N	3	c-	39	85	8	1500	Cu.	3	A.Cu	8	•
Guernsey (Fort George)	1029.3	-1	NE	4	c	41	65	7	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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1020.2	-9	NW	4	or₀	39	92	7	1500	Nb.	10	-	10	•
Stornoway	1031.0	-4	N	2	c	41	92	7	4000	St.Cu	9	-	9	1
Wick	1027.3	-6	NNW	3	o/pr₀	37	85	8	1500	Nb	10	-	10	2
Tiree	1033.9	-2	NNE	4	b	41	65	9	2500	Cu.	1	-	1	1
Nairn	1029.8	•	NNW	1	c	35	85	8	1500	St.	8	-	8	•
Aberdeen	1028.1	-6	WNW	4	bc/ph	35	85	7	2500	St.Cu	6	A.Cu	7	0
Malin Head	1034.8	-2	N	4	c/rs	42	75	8	4000	St.Cu	9	-	9	3
Renfrew	1032.9	-3	WNW	1	b-	30	92	7	-	-	0	-	0	•
Edinburgh (Inchkeith)	1030.7	-4	NW	3	bc-	36	75	8	1500	St.	1	A.Cu	3	1
Leuchars	1030.3	-5	WNW	2	bc-	34	75	8	5700	St.Cu	3	-	3	•
Eskdalemuir	1031.5	-3	NW	3	o	32	85	6	800	St.	10	-	10	•
Tynemouth	1030.1	-1	NNW	3	ojp	36	85	6	1500	Nb.	10	-	10	4
Blacksod Point	1036.4	-1	NE	3	bc-	40	85	7	•	Cu.Nb	4	-	4	5
Donaghadee	1032.7	-2	NW	2	c	39	65	8	4000	St.Cu	8	-	8	2
Birr Castle	1034.7	*	NNE	2	c+	37	92	6	1500	Cu.	3	A.St	10	•
Holyhead	1032.8	-1	NNE	3	bc	40	75	7	4000	St.Cu	9	-	9	2
Liverpool (Bidston)	1031.8	-1	NE'N	3	c	36	75	6	4000	St.Cu	9	-	9	•
Chester (Sealand)	1031.6	-2	N'W	1	c	36	85	5	2500	St.Cu	8	-	8	•
Harrogate	1030.4	-1	WNW	3	c	35	75	7	4000	Nb	8	A.St	9	•
Spurn Head	1028.3	0	NNW	3	bc-	36	97	7	4000	Cu.Nb	6	-	6	4
Birmingham (Edgbaston)	1031.0	-1	NNW	3	mmc	35	85	4	2500	St.Cu	8	-	8	•
Cranwell	1029.9	-1	NW'N	4	bc	35	97	6	2500	St.Cu	5	Ci.St	7	•
Gorleston	1027.3	0	NW	2	b	36	92	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1034.0	-1	E'N	2	bc	39	75	8	2500	St.Cu	5	-	5	3
Roches Point	1033.6	0	N	2	b	38	85	8	4000	St.Cu	1	-	1	0
Pembroke (St. Ann's H.)	1031.8	-2	NE	1	c	39	85	7	2500	St.Cu	8	A.St	10	0
Ross-on-Wye	1030.8	0	NNW	1	o	35	85	5	1500	St.	10	-	10	•
Leafield	1030.2	0	NNW	3	c	34	85	6	4000	St.Cu	10	-	10	•
Winchester (Worthy Dn.)	1030.0	0	NW	2	c	34	92	6	4000	St.Cu	10	-	10	•
S. Farnborough	1029.2	0	NW	2	bc-	35	92	6	1500	St.	6	-	6	•
London (Kew Obsy.)	1029.2	0	NW'N	1	b-	36	85	5	-	-	0	-	0	•
Croydon	1029.1	0	N	2	mmc	37	85	4	800	St.	7	A.Cu	9	•
Shoeburyness	1028.0	0	NNW	4	b/r	34	97	8	-	-	0	-	0	•
Clacton-on-Sea	1027.6	0	NW	3	b	35	97	6	4000	Cu.	1	-	1	1
Felixstowe	1028.0	0	NW	2	b	34	92	8	-	•	0	-	0	1
Lympne	1027.7	+1	NNW	3	bc-	34	92	6	4000	St.Cu	5	-	5	•
Scilly (St. Mary's)	1031.4	0	NE	1	c	42	75	8	4000	Cu.	8	-	8	0
Falmouth (Pendennis)	1031.3	0	NE'N	3	c-	40	85	7	4000	St.Cu	8	-	8	0
Plymouth (Cattewater)	1031.4	0	N	3	c+	38	85	6	4000	St.Cu	9	-	9	0
Portland Bill	1029.6	0	N	4	o	38	75	5	1500	St.	10	-	10	0
Southampton (Calshot)	1030.2	0	N'W	3	c	37	85	6	1500	St.Cu	10	-	10	0
Dungeness	1027.7	0	NNW	2	bc-	35	92	7	2500	Cu.	4	-	4	2
Guernsey (Fort George)	1029.5	0	NNE	2	c	41	65	7	2500	St.Cu	10	-	10	1

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

Station	Height above M.S.L. in feet	Weather (24 hours ended 9h) Morning	Afternoon	Night	Temp. Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall† mm. Day	Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cm₀	cm₀b	bcm₀cm₀	40	33	24	-	Tr	0.1	*	*	5
Croydon	244	cd₀m	ocm	omcm₀	39	33	30	Tr	-	0.0	*	*	5
Greenwich (Royal Obsy.)	149	c	cbcb	bcxs	39	33	27	-	Tr	0.0	83	83	3
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	41	34	29	-	-	0.0	82	88	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0.2	*	*	*
Camden Square	110	c	c	*	37	35	*	-	-	*	*	89	*
Kensington Palace	80	c	bc	*	39	34	28	-	Tr	*	(At 18h) 90	79	*
Hampstead Observatory	450	*	*	*	37	29	22	Tr	Tr	0.4	*	86	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
1.0	19h 14th	0.3	2h 15th

Kew Observatory			
Max.	Time.	Min.	Time.
0.3	3h 15th	<0.1	6h 15th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 14th 17h 30m. to 15th 6h 45m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.15	3.42	28
δ Ursae Minoris	13.15	0 56	7

CODE FOR STATE OF GROUND.

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

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

15th–16th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.0 / 7.59	12.3 / 12.3	16.6 / 16.7
Greenwich	8.2 / 8.1	12.9 / 12.10	16.18 / 16.19
Wick	8.53 / 8.51	12.22 / 12.22	15.51 / 15.53
Valentia	8.45 / 8.44	12.50 / 12.51	16.57 / 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.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

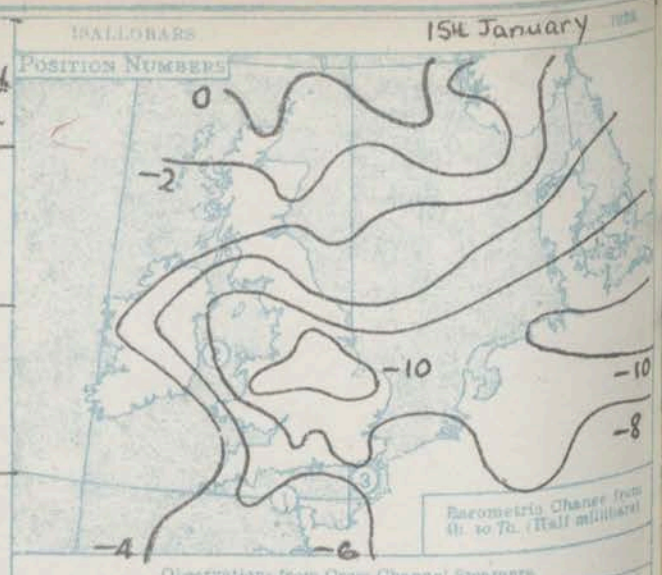
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

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

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 14th	Weather. 18h.-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.
Berwick	cps.	cps.oir.	oircq	cprs bcq	39	32	•	2	<8.00	5	<21.00	0.0
Stornoway	c	c	cpro	ocpr.	41	40	•	-	-	2	22.00	1.3
Wick	cpr.	pr.shopr.	cpr.	cpr.bcprs	38	36	•	0.4	12.30	2	22.00	•
Tiree	c	cbc	bccpr	pr.c	41	40	34	-	-	1	<21.00	0.0
Nairn	bc	bcc	cprq	cbq	37	35	•	-	-	1	<21.00	0.0
Aberdeen	cir.c	cps.prh.	bccprhrsq	bccprhrsq	36	35	31	0.1	<8.00	2	<21.00	0.1
Malin Head	co	cors.	cr.cbc	bcp.	42	41	•	0.1	14.30	0.1	22.00	0.1
Renfrew	bxfcbz.	bcz.	bxbc	bcc	38	28	21	-	-	-	-	2.1
Edinburgh (Inchkeith)	c	cbc	bcco	ocbc	37	35	31	1	14.30	Tr	6.30	0.2
Leuchars	c	cbc	bcc	cbc.q.bc	38	32	28	-	-	-	-	0.7
Eskdalemuir	c	com.	om.bc	c	34	28	27	-	-	-	-	0.6
Tynemouth	cbcprh.	bcprh.	oc	coir.	40	34	30	1	<8.00	0.6	5.30	•
Blackpool Point ...	cp.	p.b	cb	pcpc	43	35	•	0.5	•	2	•	•
Donaghadee	cpr.c	c	prs.c	bcc	41	36	•	0.2	<8.00	0.1	22.00	•
Birr Castle ...	cid.c	bccm.	c	c	40	32	27	0.2	9.00	-	-	1.4
Holyhead	~~bcm.c~~	bcc	c	cbcb	42	39	37	0.1	<8.00	-	-	3.4
Liverpool (Bidston) ...	cbcc	cm.	c	coqr	38	35	31	-	-	0.1	5.30	1.0
Chester (Sealand) ...	cm.m	cxcm.	cm.	c	39	34	29	-	-	Tr	6.30	0.0
Harrogate	cir	cir.c	cbcc	cir	37	30	28	Tr	9.00	0.5	3.30	0.0
Spurn Head	cpr.bc	bccqpr	bcprcbcc	corsrsq	41	33	•	0.5	<8.00	1	<21.00	3.6
Birmingham (Edgbaston)	cm	cfm	bc	c	37	32	30	-	-	-	-	0.0
Cranwell	crsc	cp.c	ir.c	coor.	38	31	29	0.1	9.00	Tr	<21.00	1.3
Gorleston	cbc	bcb	bbcxor.r	or.rbx	42	31	29	-	-	0.1	24.00	4.8
Valentia (Cahirciveen)	cbc	bc	c	cbcxcx	44	30	25	-	-	Tr	-	0.5
Roches Point	c	cbcb	b	bbc	43	34	•	-	-	-	-	•
Pembroke (St. Ann's H.)	bcc	c	cd.	cd.	41	36	•	-	-	Tr	24.00	0.0
Ross-on-Wye	c	cog	gom.	ocbcc	38	34	29	-	-	-	-	0.0
Leafield	c	c	c	c	35	31	29	-	-	-	-	0.0
Winchester (Worthy Dn.)	cmm.	cm.	cm.bm.	c	37	31	27	-	-	-	-	0.0
S. Farnborough ...	cir.m.cm.	cbcc	bcbom.	om.b	38	30	24	0.1	9.00	-	-	0.0
London (Kew Obsy.) ...	cm.	cm.b	bm.bcm.	cm.x	40	33	24	-	-	Tr	-	0.1
Croydon	cd.m	ocm	omm.	ocm.	39	33	30	Tr.	9.00	-	-	0.0
Shoeburyness	opr.cb	obcpr.	bo	pm.	41	32	30	Tr.	<8.00	-	-	2.5
Clacton-on-Sea ...	cbc	bcb	b	bbcsq	41	32	28	-	-	-	-	2.5
Felixstowe	cr.cbc	crcbcb	bbcc	cos.	42	32	29	0.1	<8.00	Tr	4.30	3.3
Lympne	cm.	cm.bcm.	bcom.	om.	38	31	31	-	-	-	-	1.3
Scilly (St. Mary's) ...	c	c	c	c	46	39	•	-	-	-	-	0.1
Falmouth (Pendennis)	cx.	cx.p.	cbcc	cr.	41	36	•	Tr	14.30	Tr	6.30	0.0
Plymouth (Cattewater)	om.c	bccm.	cb	bcb.m.	43	33	25	-	-	Tr	6.30	0.8
Portland Bill	omcm.	com.	omz	oc	39	36	•	-	-	-	-	•
Southampton (Calshot)	cd.cm.	cm.	bm.xom	omc	39	33	30	Tr	<8.00	-	-	0.0
Dungeness	om.rc	cbc	bcbbc	bczcm	40	30	•	-	-	-	-	•
Guernsey	cr.m.	c	c	cvy	41	39	•	0.1	<8.00	-	-	0.0

15th January



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	10h 14th	Scotia	E'N	4	PR-	41	46	7
3	2h 15th	Arundel	N	3	C+	39	46	6

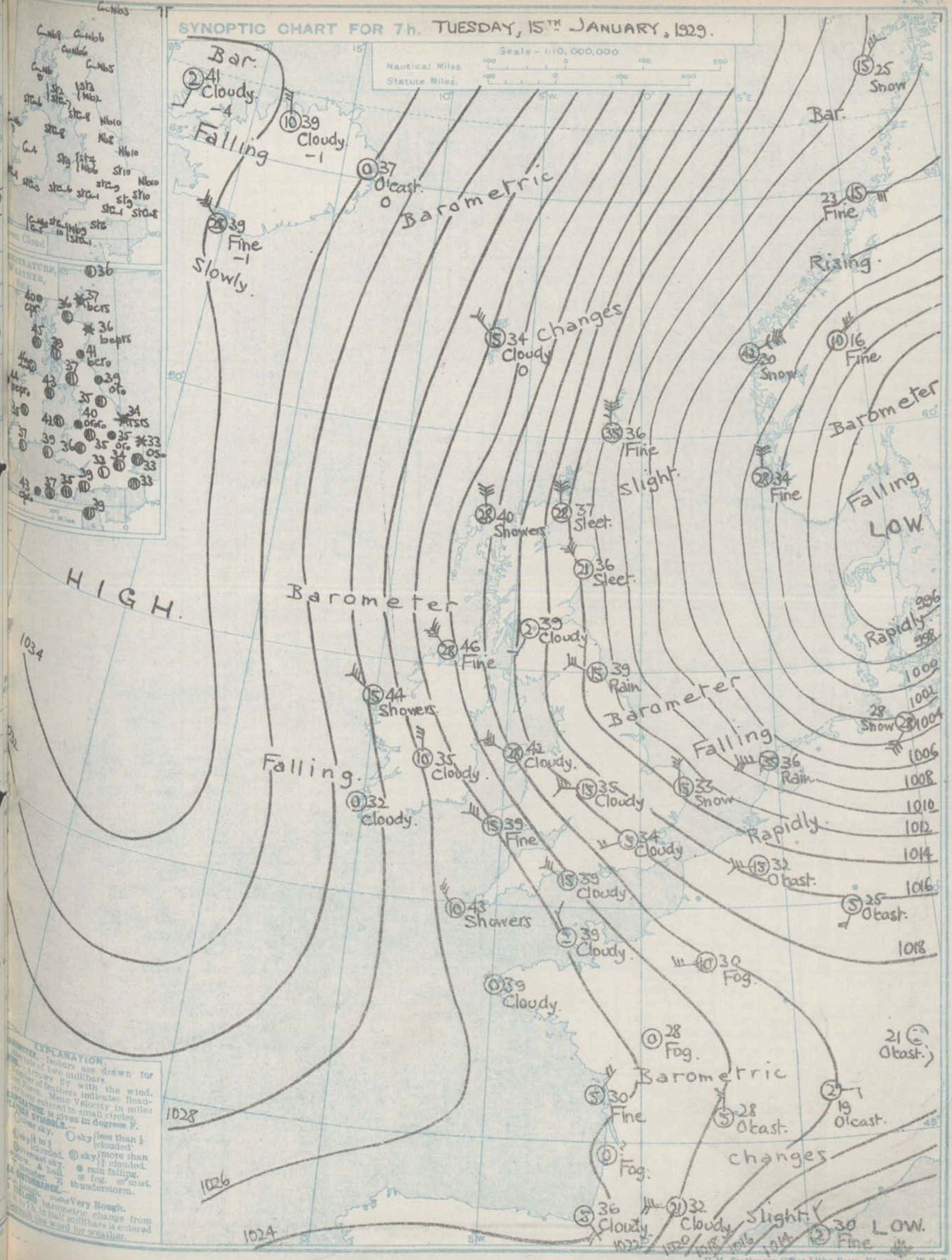
GENERAL INFERENCE.

Between high barometric pressure to the West and low to the East, secondaries, moving southwards over the British Isles, will be accompanied by strong northerly winds and unsettled weather, some rain, snow or sleet occurring in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 15th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Northerly to northeasterly winds, moderate to strong, stronger at times locally at first; cloudy, occasional rain or sleet, perhaps snow; becoming colder again with night ground frost.	Wintry weather continuing.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Northerly winds, veering, moderate to strong, stronger at times locally; cloudy but some bright intervals; occasional rain or sleet, perhaps snow; colder with night ground frost.	▲ North Cone hoisted at 8h. 25 m. to-day.
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 1 - 4.	
13. ~~A. W. Scotland~~ B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Northerly winds, moderate to strong, stronger locally at first; cloudy with some rain, sleet or snow; a few bright intervals later; colder with night frost.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Variable to northeasterly winds, light to fresh or strong; cloudy and bright periods; local rain or sleet; rather cold with ground frost at night.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0950 G.M.T. G. C. SIMPSON, F.R.S., Director.

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



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 15th January 1929. No. 15

Stations	Height above M.S.L. in feet	1h. G.M.T. 15th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	7h. G.M.T. 15th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-9
Lerwick	84	1013·1	+1	N	7	cjp	38	92	8	1500	CuNb	8	-	8	1011·3	-1	N	7	bcjp	36	75	8	1500	CuNb	3	ASt	5	*
Stornoway	89	1023·6	-6	N	3	c	*	*	6	*	*	*	*	10	1020·9	-2	N	6	c/pr	40	85	6	4000	CuNb	8	-	8	4
Wick	81	1015·6	-8	NW	3	c/pr	43	85	8	1500	CuNb	6	CSt	8	1015·6	0	N	6	bc/pr	37	85	8	1500	CuNb	6	-	6	3
Tiree	35	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·5	-3	N	6	c	45	75	8	2500	CuNb	9	-	9	4
Nairn	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·7	0	NW	4	bc	36	85	8	2500	CuNb	6	-	6	*
Aberdeen	27	*	*	*	*	*	*	*	*	*	*	*	*	*	1013·7	-1	NNW	5	bc/pr	36	85	7	2500	CuNb	5	-	5	3
Malin Head	83	1029·2	-6	NNW	4	bcjp	44	85	8	4000	StCu	3	-	3	1022·7	-4	NNW	6	bc+	46	85	7	5700	StCu	6	-	6	6
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·6	-4	SW	1	c	39	92	7	4000	StCu	9	-	9	*
Edinburgh (Inchkeith)	100	1021·9	-8	W	4	o	36	92	7	1500	St	10	-	10	1014·9	-6	W	4	bcr	41	75	8	1500	St	5	-	5	2
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·2	-4	N	4	bc+	41	65	8	2500	Nb	7	-	7	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·3	-7	NW'W	5	c	37	85	7	1500	StCu	8	-	8	*
Tynemouth	67	1020·8	-6	WNW	3	c	34	85	6	1500	Nb	8	-	8	1013·1	-5	WNW	4	or	39	85	7	1500	Nb	10	-	10	2
Blacksod Point	18	1033·3	-2	-	0	bc	37	85	8	*	StCu	4	-	4	1028·1	-4	NW	4	bc/pr	44	85	7	*	CuNb	7	-	7	4
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·5	-8	NNW	3	c+	43	75	7	4000	StCu	8	-	8	3
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·0	*	N	3	c	35	92	7	1500	Cu	4	ASt	9	*
Holyhead	26	1028·1	-5	NW'N	4	c	41	65	7	2500	St	8	-	8	1019·9	-9	NW'W	6	c+	42	92	6	1500	St	9	-	9	5
Liverpool (Bidston)	188	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·9	-9	NW	6	ocr	40	92	6	1500	Nb	10	-	10	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·9	-11	WNW	5	or	41	85	8	1500	St	10	-	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1013·9	-11	SW	5	c	35	92	8	4000	Nb	8	ASt	9	*
Spurn Head	24	1021·4	-4	NW'W	6	c	35	85	7	4000	CuNb	4	ASt	8	1011·2	-8	NW'W	7	prars	34	97	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	575	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·0	-8	W	4	c	35	85	7	2500	StCu	9	-	9	*
Cranwell	266	1025·0	-6	WNW	4	c	33	75	6	4000	StCu	5	CSt	9	1015·7	-10	W'N	4	or	35	85	6	4000	St	10	-	10	*
Gorleston	14	1022·8	-5	W'N	3	or	34	97	5	1500	Nb	10	-	10	1013·0	-10	N'W	4	os	33	85	5	800	Nb	10	-	10	0
Valentia (Cahirciveen)	30	1032·5	-2	NE'N	1	b	37	97	9	*	CuNb	2	-	2	1029·2	-3	-	0	c	32	85	8	4000	StCu	8	-	8	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1027·9	-3	N	3	bc	37	85	8	4000	StCu	3	-	3	0
Pembroke (St. Ann's H.)	160	1029·0	-2	NNE	1	cd	39	75	8	2500	StCu	10	-	10	1023·9	-4	NW	4	bc-	39	85	8	2500	StCu	6	-	6	1
Ross-on-Wye	220	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·7	-7	W'N	3	c	36	75	8	4000	StCu	1	Ci	8	*
Leafield	512	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·4	-8	NW'W	5	c+	33	85	8	-	-	0	ASt	9	*
Winchester (Worthy Dn.)	272	*	*	-	*	*	*	*	*	*	*	*	*	*	1020·3	-8	W'S	4	c	33	75	7	4000	StCu	3	ASt	9	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·3	-7	WNW	3	b+	33	85	7	2500	StCu	1	ACu	2	*
London (Kew Obsy.)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	1018·2	-9	W'S	2	c	34	75	5	1500	St	9	-	9	
Croydon	344	1026·7	-4	NW'W	2	o	34	92	5	1500	St	10	-	10	1018·5	-9	W'N	4	c	33	85	5	2500	StCu	4	ACu	10	
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·4	-8	W'N	3	o	34	85	6	2500	St	10	-	10	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·0	-8	NW	3	o	33	85	6	4000	St	10	-	10	2
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·0	-9	WNW	4	os	34	85	6	800	Nb	10	-	10	3
Lympne	350	1024·5	-3	NW'W	3	o+	33	97	5	1500	St	10	-	10	1017·6	-8	WSW	3	o	32	85	5	1500	St	10	-	10	*
Scilly (St. Mary's)	163	1029·6	-2	-	0	c	41	85	8	4000	StCu	8	-	8	1025·4	-4	NNW	3	c/pr	43	85	8	4000	Cu	8	-	8	1
Falmouth (Pendennis)	200	1029·0	-2	-	0	c+	37	75	7	4000	StCu	9	-	9	1024·8	-3	-	0	c/r	37	92	7	4000	StCu	10	-	10	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1024·0	-7	N	2	c/s(h)	35	97	6	2500	Nb	10	-	10	0
Portland Bill	32	1027·4	-3	N	2	o	37	85	6	2500	St	10	-	10	1022·0	-6	NW'W	4	c	39	65	8	2500	St	6	ASt	10	1
Southampton (Calshot)	10	1027·0	-4	NNW	3	mno	35	85	4	1500	St	10	-	10	1020·7	-6	W	4	c	34	75	7	1500	StCu	10	-	10	0
Dungeness	20	1025·2	-3	NNE	1	bc+	34	85	6	-	-	0	CSt	3	1018·3	-6	NW	3	c+	33	85	6	2500	StCu	8	-	8	3
Guernsey (Fort George) P	208	1027·4	-3	NW	1	o+	39	75	6	4000	Nb	10	-	10	1024·0	-5	NNW	1	c	39	85	9	2500	StCu	10	-	10	1

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 13th to 9h. 14th °F.	Temperature. Max. 9h.-17h. 14th °F.	Rainfall.† Night 17h.-9h. 13th-14th 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	35	39	1	-	0·1
Douglas (I. o. M.)	c	bcc	35	40	-	-	2·1
Llandudno	cbc	c	35	41	1	-	1·5
Colwyn Bay	cb	bcc	36	41	2	-	2·2
Rhyl	cbc	co	33	40	1	-	0·4
Wallasey	cbc	bcc	34	39	1	-	0·5
Southport	bcc	cbcco	*34	39	-	-	0·4
Blackpool	oc	bcc	34	40	-	-	3·6
Ilkley	c	c	34	38	-	-	0·0
Cleethorpes	rocr	hbcrco	36	40	1	0·3	1·7
Skegness	prapharc	cbcb	36	41	2	0·4	1·9
Aberystwyth	cbc	bcc	33	40	-	-	3·5
Bath	c	o	25	38	0·3	-	0·0
Cheltenham	om	om	33	37	1	-	0·0
Leamington Spa	cm	c	32	39	0·3	-	0·0
Lowestoft	bcb	bbc	35	41	1	-	4·9
Harwich & Dovercourt	bccm	bc	35	42	Trace	-	2·8
Maldon	cbc	bc	33	39	Trace	-	1·7
Southend	omc	cbm	34	41	0·3	-	1·6

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xc	c	29	41	-	-	0·0
Penzance	c	cm	33	43	-	-	0·0
Paignton	cm	bcc/om	35	42	-	-	1·8
Torquay	om	ocbcoom	35	42	-	-	2·1
Jersey	cm	c	39	42	-	-	0·0
Weymouth	c	c	32	39	-	-	0·0
Bournemouth	o	o	?	38	0·3	-	0·0
Ventnor	rsoz	oz	33	38	Trace	-	0·0
Portsmouth (S'thsea)	o	o	33	39	-	-	0·0
Bognor	oc	o	35	39	0·3	-	0·0
Littlehampton	c	c	29	38	0·2	-	0·0
Worthing	c	c	31	39	Trace	-	0·0
Brighton	cobco	co	31	39	0·2	-	0·0
Eastbourne‖	oc	obcc	35	40	-	-	0·0
Hastings‖	coc	cbcco	35	39	0·6	-	0·4
Folkestone	rcbc	bcc	34	41	0·5	-	2·7
Dover	c	cbc	35	40	1	-	2·3
Tunbridge Wells	o	coom	31	38	0·3	-	0·1
Ramsgate	bc	bc	36	40	1	-	3·4
Margate	bc	bc	35	40	0·2	-	3·0
Deal	ocbc	bc	34	40	1	-	2·3

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

* Information not usually received. P The observations at 11h. G.M.T. and, at Guernsey, the sunshine readings are from an auxiliary station. § For code see page 1. †‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 12h.-6h.

No. 16

Rainfall Day mm.	Rainfall Night mm.
	1
	-
	7
-	-
1	3
2	Tr
	-
-	4
-	-

Swell Code No.	Swell Direc.	Unusual Phenomena.
1	SE	0
0	SE	0
6	SE	0
6	SE	0
7	E	0
4	E	

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24,527 Wednesday 16th January 1929. Page 1.

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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1012.3	+1	N	7	bcjp	34	92	8	1500	CuNb	3	A.St	4	*
Stornoway	1020.9	0	NNE	4	bc	37	85	7	4000	CuNb	5	A.Cu	7	*
Wick	1015.6	0	N	7	c/ph	38	75	8	1500	CuNb	6	A.St	8	*
Tiree	1019.9	0	N'E	6	bc	41	75	8	2500	CuNb	7	-	7	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1013.5	-1	NNW	5	cs	38	75	7	2500	CuNb	8	-	8	6
Malin Head	1021.1	-2	N'W	6	c/pr	44	85	8	4000	CuNb	8	-	8	*
Renfrew	1017.3	+1	N'E	3	bc	42	85	8	4000	Cu	4	Ci.Cu	7	1
Edinburgh (Inchkeith)	1015.2	+1	N	3	bc	38	85	8	4000	Cu	4	A.Cu	5	*
Leuchars	1014.8	-1	NNW	4	bc	39	55	8	4000	St.Cu	5	Ci.St	6	1
Eskdalemuir	1015.1	-2	N'W	5	bc	35	75	8	2500	Cu	2	Ci	3	7
Tynemouth	1012.1	-2	NNW	4	bcjp	37	85	7	1500	Nb	6	-	6	*
Blacksod Point	1023.2	-3	NW	4	c/pr	47	75	8	*	CuNb	9	-	9	*
Donaghadee	1018.5	-1	N	6	bc-	45	85	8	4000	Cu	4	A.Cu	6	*
Birr Castle	1022.2	*	N	3	bc-	45	85	7	4000	St.Cu	3	A.Cu	7	*
Holyhead	1015.1	-4	NW'N	6	cr	45	85	8	1500	St.	9	A.Cu	9	1
Liverpool (Bidston)	1014.3	-2	N'E	4	c	40	75	7	2500	Nb	9	Ci.St.	9	*
Chester (Sealand)	1014.0	-2	NNW	4	c-	41	85	6	2500	St.Cu	6	Ci.	8	1
Harrogate	1012.7	0	N	6	c	38	65	8	4000	CuNb	8	-	8	*
Spurn Head	1008.2	-1	NNW	6	bc	36	85	7	4000	CuNb	4	A.Cu	6	*
Birmingham (Edgbaston)	1012.8	-5	NNW	4	cjp	41	85	6	1500	Nb	9	-	9	2
Cranwell	1011.9	-2	NNW	5	c	39	85	7	1500	Cu	6	A.Cu	8	1
Gorleston	1007.3	-6	N'N	4	c/pr	37	92	6	1500	CuNb	9	-	9	*
Valentia (Cahireiveen)	1026.0	-4	N'E	3	bc	46	75	8	2500	St.Cu	3	A.Cu	5	1
Roches Point	1023.9	-5	N	3	bc	45	85	8	4000	St.Cu	2	Ci.Cu	4	*
Pembroke (St. Ann's H.)	1017.8	-4	N'W	5	c+	44	85	7	1500	Cu	7	A.St	9	*
Ross-on-Wye	1013.6	-6	N	3	cjp	44	73	8	2500	Nb	9	-	9	1
Leafield	1012.8	-6	NW	4	c/r	37	92	8	2500	St.	9	-	9	3
Winchester (Worthy Dn)	1013.6	-8	WNW	4	c/r	38	85	7	1500	St.Cu	10	-	10	2
S. Farnborough	1012.9	-7	WNW	3	cr	37	92	6	800	Nb	10	-	10	1
London (Kew Obsy.)	1012.2	-6	WNW	3	c	38	85	5	1500	St.	7	A.St	9	1
Croydon	1012.2	-6	NW	4	o/rs	36	92	5	800	St.	10	-	10	2
Shoeburyness	1010.3	-7	WNW	3	c/s	37	97	8	2500	St.	6	A.Cu	8	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1009.1	-5	WNW	4	c	38	85	6	800	St.	9	-	9	2
Lympne	1010.6	-7	W	4	o/s	33	97	5	450	St.	10	-	10	3
Scilly (St. Mary's)	1022.7	-3	NNW	5	c	43	85	8	4000	Cu	8	-	8	*
Falmouth (Pendennis)	1019.7	-4	NW'N	4	bc/pr	43	75	8	4000	CuNb	7	-	7	*
Plymouth (Cattewater)	1018.4	-8	WNW	3	c+	42	97	7	4000	Nb	9	-	9	1
Portland Bill	1014.3	-11	WNW	5	c	43	65	8	2500	St.Cu	9	-	9	*
Southampton (Calshot)	1013.8	-8	WNW	5	cr	40	85	7	1500	Nb	7	A.St.	10	1
Dungeness	1010.8	-7	NW	3	o/s	35	97	7	1500	St.	10	-	10	*
Guernsey (Fort George)	1010.2	-7	WNW	4	bc-	42	65	7	2500	St.Cu	4	Ci.	7	*

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

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	1013.7	+1	N	8	os	32	97	8	1500	Nb.	10	-	10	*
Stornoway	1021.2	+1	NE	3	c/pr	35	92	6	4000	CuNb	9	-	9	2
Wick	1015.6	0	N	6	c/prs	35	85	8	1500	CuNb	6	Ci.St.	8	4
Tiree	1020.3	0	NE'N	6	bc	40	65	8	2500	CuNb	3	A.Cu	6	4
Nairn	1017.8	*	N'W	3	bc/s	34	85	7	2500	CuNb	5	-	5	*
Aberdeen	1014.9	+2	NNW	4	bcs	34	85	8	2500	CuNb	7	-	7	4
Malin Head	1020.2	0	N'W	6	cjp	43	65	8	4000	St.Cu	9	-	9	6
Renfrew	1018.0	+1	N	4	c	38	65	8	2500	Cu.	8	-	8	*
Edinburgh (Inchkeith)	1015.7	+3	NNW	4	bc	36	75	8	4000	Cu.	2	A.Cu	5	2
Leuchars	1015.8	+2	NNW	4	bc/h	35	75	8	2500	St.Cu	2	Ci.St	6	*
Eskdalemuir	1018.3	+3	N'W	4	c/ps	33	75	7	1500	St.Cu	10	-	10	*
Tynemouth	1012.3	0	NW	3	bc/sh	34	85	7	1500	CuNb	3	-	3	6
Blacksod Point	1025.5	-2	NW	4	cd+	45	85	7	*	CuNb	8	-	8	4
Donaghadee	1018.6	+1	N	5	bc+	42	65	8	2500	CuNb	7	-	7	5
Birr Castle	1020.7	*	N	4	c/pr	43	85	7	1500	Cu.	4	A.St.	10	*
Holyhead	1016.0	+2	NNE	5	c	42	75	8	1500	St.	10	-	10	5
Liverpool (Bidston)	1014.7	+1	N'E	4	b	37	65	8	4000	St.Cu	1	-	1	*
Chester (Sealand)	1014.6	+2	NNW	3	b-	35	75	5	2500	St.Cu	2	-	2	*
Harrogate	1012.7	0	N	5	b	35	75	7	-	-	0	A.Cu.	1	*
Spurn Head	1008.6	0	NNW	6	bc-	35	97	7	4000	CuNb	6	-	6	5
Birmingham (Edgbaston)	1013.5	+1	NNW	4	bc-	35	65	5	-	-	0	Ci.	4	*
Cranwell	1011.6	0	NW'N	4	bc-	34	85	7	1500	St.Cu	5	-	5	*
Gorleston	1008.7	0	NW'W	4	crs	35	92	7	800	CuNb	9	-	9	0
Valentia (Cahireiveen)	1023.6	-2	N	4	bc	46	85	8	1500	St.	4	A.Cu	5	3
Roches Point	1021.2	-2	N'W	3	bc	44	85	8	4000	St.Cu	5	-	5	0
Pembroke (St. Ann's H.)	1015.3	-5	NNW	5	c-	44	85	8	800	CuNb	5	A.St.	8	4
Ross-on-Wye	1014.0	+1	N	2	bc-	37	75	6	4000	St.Cu	3	A.Cu.	4	*
Leafield	1013.0	+2	N'W	4	c	35	75	7	4000	CuNb	9	-	9	*
Winchester (Worthy Dn)	1012.2	0	NW'N	3	c-	36	85	7	2500	St.Cu	8	-	8	*
S. Farnborough	1011.8	+1	NW	2	bc-	37	85	6	2500	St.Cu	6	-	6	*
London (Kew Obsy.)	1011.6	+1	NNW	2	bc	38	65	6	2500	St.Cu	4	A.Cu	7	*
Croydon	1011.3	+1	N	4	c/m	38	75	5	1500	St.	8	A.Cu	9	*
Shoeburyness	1009.5	0	WNW	5	c+	37	92	8	2500	St.Cu	9	-	9	*
Clacton-on-Sea	1009.0	0	WNW	4	bc	36	85	6	4000	St.Cu	5	-	5	2
Felixstowe	1008.4	0	NW'W	4	crs	35	92	7	2500	CuNb	9	-	9	3
Lympne	1009.5	-1	WNW	4	bc-	35	85	6	1500	St.Cu	7	-	7	*
Scilly (St. Mary's)	1018.8	-4	NNW	5	c	45	85	7	4000	CuNb	8	-	8	4
Falmouth (Pendennis)	1016.8	-1	NW'N	4	c/PR	44	92	7	2500	CuNb	6	A.St.	10	1
Plymouth (Cattewater)	1015.5	-2	WNW	4	bc/r	43	92	6	1500	Nb.	4	Ci.	5	0
Portland Bill	1012.2	-3	NNW	4	c-	42	85	8	2500	St.Cu	8	-	8	3
Southampton (Calshot)	1012.6	+1	NW	3	c/r	38	85	6	1500	St.Cu	9	-	9	0
Dungeness	1010.1	0	NNW	3	bc-	36	85	7	2500	St.Cu	4	A.Cu	6	3
Guernsey (Fort George)	1014.4	-2	NW	5	c+	44	85	7	2500	St.Cu	8	A.St.	10	6

LONDON OBSERVATIONS.

Day	Height above M.S.L. in feet.	Weather. Morning. (24 hours ended 9h.)	Weather. Afternoon. (24 hours ended 9h.)	Weather. Night. (24 hours ended 9h.)	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday)	Humidity. 9h. G.M.T. % (To-day)	Visibility.§
Day 7h-18h., Kew & Croydon. 9h-15h., Kensington. 9h-21h., other stations.													
Kew	18	cmSs	Cm	bscu	40	29	19	0.2	1	0.2	*	*	4
Croydon	244	cmS	ocm	cbcbz	39	28	24	0.3	-	0.0	*	*	1
Greenwich (Royal Obsy.)	148	cssm	cmbcc	obsSc	40	29	23	0.4	1	0.0	71	76	4
City (Bushill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	42	30	24			0.2	83	68	*
Regent's Pk. (Botanic Gdns.)	165	*	*	*	*	*	*	*	*	0.3	*	*	*
Camden Square	110	OSrs	rscbC	*	38	30	-			*	*	96	*
Kensington Palace	80		osz	*	40	29	25	0.5	2	*	(At 18h. 74)	86	*
Hampstead Observatory	450	*	*	*	37	25	15	1	1	0.1	*	97	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
1.0	15th 10h	<0.3	16 3h

Kew Observatory

Max.	Time.	Min.	Time.
0.2	15 15h	<0.1	16 2h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 15th 17h. 30m. to 16th 06h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 15	08 0	49
β Ursae Minoris	13 15	06 57	42

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.

16th JANUARY, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.59	12.3	16.7
	7.58	12.3	16.9
Greenwich	8.1	12.10	16.19
	8.0	12.10	16.21
Wick	8.51	12.27	15.53
	8.50	12.23	15.56
Valentia	8.44	12.51	16.58
	8.43	12.51	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.
P precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
z hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain.
rr = continuous rain.

SYMBOLS.

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

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

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

The BEAUFORT SCALE of WIND

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

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

SEA DISTURBANCE.

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

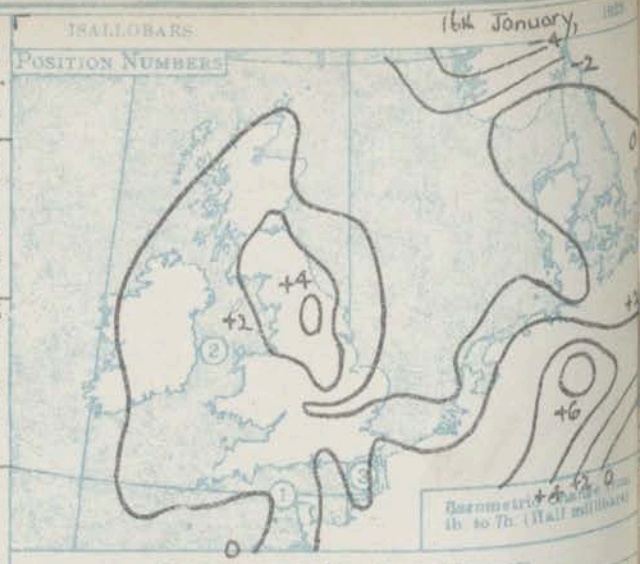
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 15th	18h.-18h. 15th	18h. 15th to 1h. 16th	1h.-7h. 16th	TEMPERATURE. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN 15th Hours.
Lerwick	bccipsqbc	bccisq	bccipsq	cbcipsqbc	(54)	30	•	Tr.	<8·00	Tr	<21·00	3·0
Stornoway	cpr.bc	bccpr.	cpabc	bcp.s	40	30	•	1	<8·00	0·4	22·00	0·5
Wick	cphs.	cphs.	cp.hs	bcphs	38	30	•	1	<8·00	2	<21·00	•
Tiree	pa.bc	prhc	bcc	cbc	46	35	27	0·2	<8·00	-	-	0·9
Nairn	bcprs.	cqspbc	bcspq	bcx	37	30	•	0·5	11·00	0·4	<21·00	0·0
Aberdeen	bcpsq	cps	bccqsp	bccqpsm	39	26	19	2	<8·00	4	<21·00	2·4
Malin Head	bccpr.	cpr.	cp.bcc	cp.b	46	37	•	0·3	<8·00	0·3	<21·00	0·3
Renfrew	cbc	bccy	cb	bx	42	26	19	-	-	-	-	2·7
Edinburgh (Inchkeith)	ir.bc	b.bc	bcb	b	42	30	24	Tr	<08·00	-	-	0·1
Leuchars	~~p.bcp~~ pobcpp	c.phbc	bc.hsbbc	bbcpsb	41	27	20	Tr	<8·00	0·1	<21·00	3·2
Eskdalemuir	cpr.bc	bcc	b	b	38	26	25	0·2	9·00	-	-	4·3
Tynemouth	oir.bcprs	bcpshq	bcquftsoss	oPS	39	31	28	2	<8·00	10	<21·00	•
Blacksod Point ...	p.c	p.c	pc	p.bc	48	36	•	1	•	0·5	•	•
Donaghadee	cprbc	bccbc	bccbc	bc	45	37	•	1	<8·00	-	-	•
Birr Castle	cbc	cpr.	cx	cx	46	30	18	Tr	17·30	-	-	1·5
Holyhead	cr.cq	rpr.q	cbcb	b	46	37	35	2	9·00	-	-	0·6
Liverpool (Bidston) ...	qorr.	cbccb	bb	bbcbx	41	32	28	1	<8·00	-	-	1·1
Chester (Sealand) ...	rrqc	cqbcbm	bm.x	bx	44	31	25	3	<8·00	-	-	0·9
Harrogate	cbccq	cbcbq	bbcis	cisb	39	26	18	-	-	2	<21·00	3·9
Spurn Head	cprpsbc	cpirpsbc	cpsphcbcx	coisbcq	39	28	•	5	<8·00	1	<21·00	3·0
Birmingham (Edgbaston)	crs.r.	cpr.bc	bcb	bbc	41	28	24	1	<8·00	-	-	0·2
Cranwell	or.rc	cbcqr	oisb	is.oss	40	28	25	2	<8·00	0·5	<21·00	2·1
Gorleston	osxprc	crshr	cisrhxbq	bcis.xq	38	30	29	5	<8·00	0·6	<21·00	1·1
Valentia (Cahirciveen)	cxbcp	bccp.	bccpr	cbc	47	38	35	1	9·00	1	<21·00	1·5
Roches Point	bc	bc	bcb	b	46	35	•	-	-	-	-	•
Pembroke (St. Ann's H.)	bcc	cbccPq	cir	bcc	46	36	•	1	16·30	0·6	<21·00	0·5
Ross-on-Wye	c	pcbc	bc bx.	b x.	44	30	21	0·5	13·30	-	-	0·2
Leafield	cr.sir	bcpc	bc,bbc	bc	38	27	24	0·3	9·00	-	-	0·3
Winchester (Worthy Dn.)	cs.cr.	cir.c	bcb	bbc	39	28	24	0·2	12·30	-	-	0·0
S. Farnborough ...	bcsxrrm	or.r.c	bx m.	bx	38	25	18	0·3	9·00	Tr	06·30	0·0
London (Kew Obsy.) ...	cms.r.	cm.	b	osscm.	40	29	19	0·2	9·00	1	00·30	0·2
Croydon	cmsrs.	ocm	cbcx.	cz,bxc	39	28	24	0·3	<8·00	-	-	0·0
Shoeburyness	ossc	c	cps.	os.s.	41	26	26	1	<8·00	0·2	22·00	0·5
Clacton-on-Sea ...	ogsc	cbc	bccog	ogps	38	26	20	1	9·00	2	02·30	0·2
Felixstowe	os.r.	cprh.bccq	crsc	ossm.	39	27	22	1	<8·00	2	01·30	0·5
Lympne	ossm.	cphcm.	bcm.cps	bcbx	38	25	21	1	9·00	0·1	24·00	0·0
Scilly (St. Mary's) ...	cp.c	cp.	cpbc	bcp	45	38	•	0·4	<8·00	1	<21·00	2·6
Falmouth (Pendennis)	cbcmp	dcpr.c	cprh	c	46	37	•	0·6	11·00	1	<21·00	0·8
Plymouth (Cattewater)	cm.bcpr	cr.irbc	crb	bxm.	44	30	22	0·5	12·30	0·2	<21·00	1·5
Portland Bill	c	c	bcpz.	bz.	45	31	•	-	-	-	-	•
Southampton (Calshot)	cxcir.	cr.bccqcm.	bcq	bxbc	42	30	27	1	11·00	-	-	0·0
Dungeness	cz.os.s.	ocbc	dccps.	bbcx	37	24	•	1	<8·00	Tr	24·00	-
Guernsey	coir.	bcor.q	cprqbc	bc	44	36	•	Tr	9·00	0·3	<21·00	1·8



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	15th 10h	Scotia	NW'W	5	C	43	47	7

GENERAL INFERENCE.

Secondary depressions moving southwards over the British Isles and the North Sea will maintain cold, northerly winds with wintry showers in most districts; there will, however, be some bright periods.

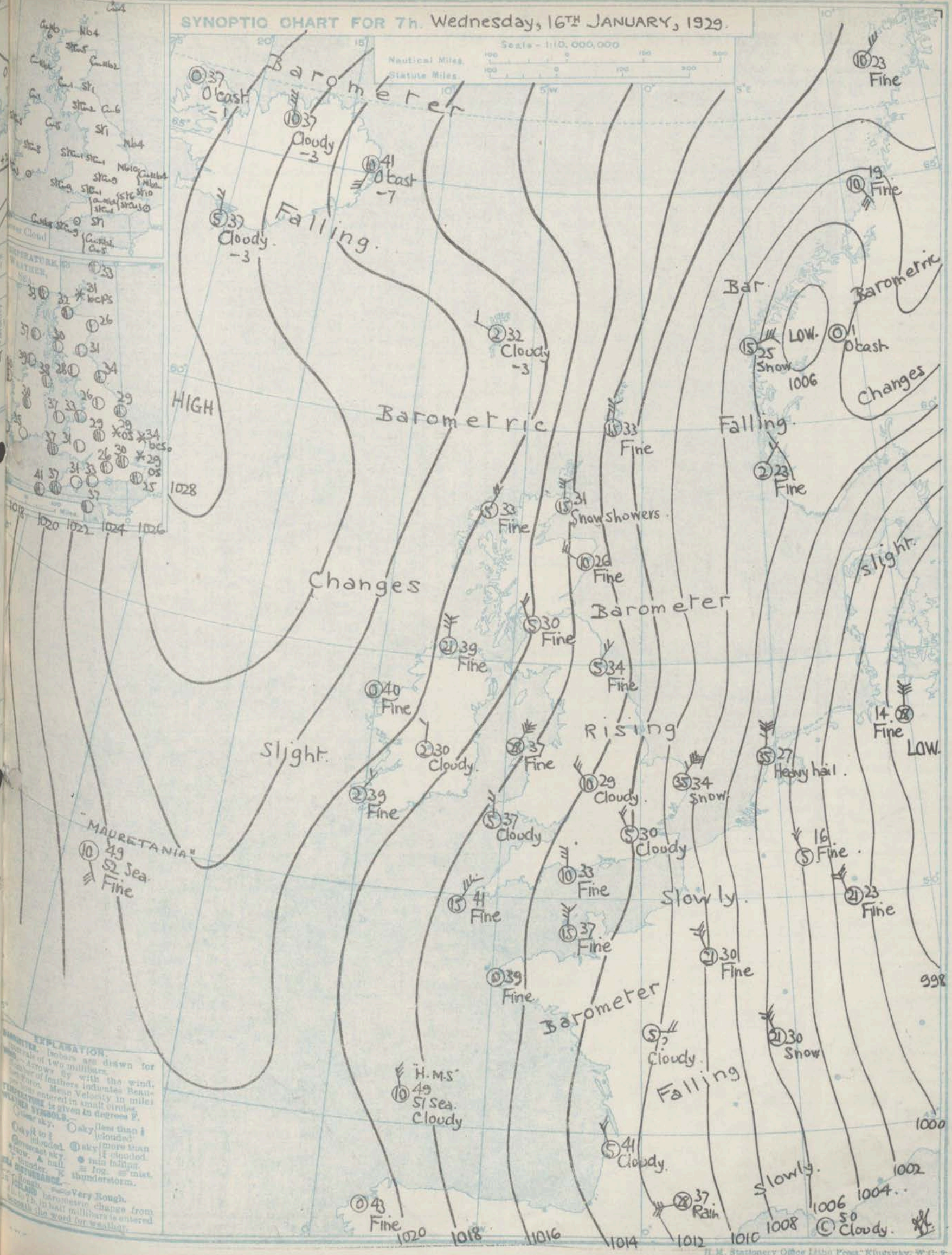
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 16th January, 1929	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Northerly winds, fresh to strong locally at first; cloudy, some bright periods; some snow or sleet showers; cold, frost at night.	
5. S.W. England 6. South Wales 7. North Wales	Northerly winds, moderate; bright and cloudy periods; local wintry showers; cold with frost at night.	Cold wintry weather continuing
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 13 B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Northwesterly to northerly winds, fresh to strong at times locally; bright and cloudy periods; some local snow, sleet or hail; cold, frost at night.	
19. S.E. Ireland 20. S.W. Ireland	Light to moderate northerly winds; mainly fair; rather cold with night frost.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0940 G.M.T. G. C. SIMPSON, F.R.S., Director.

§ For code see page 1

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

SYNOPTIC CHART FOR 7h. Wednesday, 16TH JANUARY, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Wednesday, 16th January 1929. No. 16

Stations	Height above M.S.L. in feet	Obs. at 1h. G.M.T. 16th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility‡‡ 0-6	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Obs. at 7h. G.M.T. 16th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility‡‡ 0-6	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Rain
Lerwick	54	1016.3	+1	N	8	ojp	32	97	7	1500	Nb	10	-	10	1015.2	-1	N	4	bc	33	97	8	1500	Cu	4	-	4	•
Stornoway	30	1022.8	+1	NE	4	bc-	•	•	7	•	•	•	•	7	1021.7	-1	NNE	2	bc	33	97	7	4000	CuNb	6	-	6	2
Wick	81	1018.1	+1	N	5	bc	35	75	8	1500	CuNb	5	-	5	1018.6	0	N	4	bc/fs	31	97	8	1500	Nb	4	-	4	4
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.6	0	N	4	bc	37	65	9	2500	CuNb	2	ACu	4	4
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.5	•	NNW	2	bc	32	85	8	2500	StCu	5	-	5	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.8	-1	NNW	3	b	26	92	6	2500	CuNb	2	-	2	3
Malin Head	51	1021.6	0	N	6	c/PH	40	75	8	4000	CuNb	5	ACu	9	1021.8	0	N	5	b	39	75	8	4000	Cu	1	-	1	4
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.4	+1	NNW	2	b	30	75	8	4000	Cu	1	-	1	•
Edinburgh (Inchkeith)	100	1016.5	+2	N	3	b	33	97	8	-	-	0	ACu	1	1018.1	+2	N	3	b	31	97	8	1500	St	1	ACu	2	1
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.8	+2	NW	3	b	30	85	8	2500	StCu	1	-	1	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.1	+3	N'E	3	b	27	85	8	2500	StCu	2	-	2	•
Tynemouth	67	1014.4	+2	N	2	oSS	32	97	3	800	Nb	10	-	10	1016.8	+3	NNE	2	bc/s(h)	34	75	7	1500	Cu	6	-	6	4
Blacksod Point	18	1022.7	0	NW	3	o	42	85	6	-	StCu	8	-	8	1022.3	0	-	0	bc	40	85	7	•	StCu	5	-	5	2
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.7	+1	N	4	bc	38	65	8	4000	Cu	5	-	5	4
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.4	•	N	1	c-	30	92	7	2500	StCu	8	-	8	•
Holyhead	26	1017.3	0	N'E	6	b	40	65	8	1500	St	1	-	1	1018.5	+1	N'E	6	b	37	65	8	2500	StCu	1	-	1	5
Liverpool (Bidston)	186	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.6	+2	N'E	5	b	33	65	8	4000	StCu	1	-	1	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.0	+1	NNW	3	b	32	75	7	4000	StCu	2	-	2	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.0	+4	N	1	b	26	85	7	2500	St	1	-	1	•
Spurn Head	29	1011.2	0	NNE	5	bc	35	65	8	4000	CuNb	4	-	4	1012.8	+1	NNE	7	bc-	29	92	7	4000	Nb	4	-	4	5
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.3	+1	NW	3	c+	29	85	8	2500	StCu	9	-	9	•
Cranwell	336	1012.3	+1	NW	3	c/s(h)	31	97	6	2500	St	9	-	9	1015.3	+3	N	4	oS	29	92	2	1500	Nb	10	-	10	•
Gorleston	14	1009.4	+2	NNE	7	b	32	92	7	4000	Cu	2	-	2	1010.4	-1	N'E	7	bo S₀	34	92	7	1500	CuNb	6	-	6	4
Valentia (Cahirciveen)‡	30	1022.0	0	N	2	b	45	92	9	-	CuNb	2	-	2	1021.7	-1	NE	1	bc	39	85	8	4000	StCu	3	-	3	0
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.5	0	N	3	b	35	92	8	-	-	0	-	0	0
Pembroke (St. Ann's H.)	150	1016.7	+1	NNE	3	bc-	37	75	8	2500	StCu	5	-	5	1017.9	+1	N	2	c	37	75	8	1500	StCu	9	-	9	1
Ross-on-Wye	220	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.7	0	N	3	b	31	75	8	4000	StCu	1	-	1	•
Lenfield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.0	0	NW'N	4	bc-	28	85	6	4000	StCu	5	-	5	•
Winchester (Worthy Dn.)	273	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.9	+1	WNW	3	bc	29	85	7	4000	StCu	5	-	5	•
S. Farnborough	267	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.4	+2	NW	1	bc/s(h)	26	92	6	2500	CuNb	3	-	3	•
London (Kew Obsy.)	18	•	•	•	•	•	34	•	•	•	•	•	•	•	1019.2	+1	NW	2	c/s(h)	30	85	5	1500	St	9	-	9	•
Croydon	244	1012.3	+1	N'E	4	c	34	85	6	1500	StCu	10	-	10	1014.0	+1	NW'N	3	c+	29	97	5	1500	StCu	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.0	+1	NW	4	oS₀S₀	30	97	5	800	Nb	10	-	10	1
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1012.3	0	WNW	4	oS	29	97	6	2500	St	10	-	10	1
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1012.5	+4	NNW	3	oS₀S₀	28	97	5	800	Nb	10	-	2	•
Lympne	350	1010.2	+2	NNW	5	c/s(h)	31	85	7	2500	Nb	8	-	8	1012.1	+1	WNW	4	b+	26	85	6	-	-	0	Cu	4	4
Scilly (St. Mary's)	163	1017.2	-1	N	6	bc	44	75	8	4000	Cu	5	-	5	1016.8	0	NNE	4	bc	41	75	8	4000	CuNb	5	-	5	0
Falmouth (Pendennis)	200	1016.4	+1	NNE	2	c	41	85	8	4000	StCu	8	ACu	10	1017.4	+1	NE'N	2	c-	37	65	8	4000	StCu	9	-	9	0
Plymouth (Cattewater)	62	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.6	+1	N	2	b	31	92	7	-	-	0	-	0	1
Portland Bill	32	1013.7	+1	NNW	4	b	36	65	6	-	-	0	-	0	1019.7	0	N	3	b	33	75	6	1500	St	1	-	1	0
Southampton (Calshot)	10	1013.5	0	NNW	4	b	34	75	7	-	-	0	-	0	1014.7	+2	NW'N	3	bc+	30	85	7	2500	StCu	3	-	3	1
Dungeness	30	1010.1	0	NNE	4	cS	34	85	8	2500	CuNb	8	-	8	1012.5	+3	NW	2	bc+	25	92	8	-	-	0	ASt	4	1
Guernsey (Fort George) ‡	205	1014.2	0	N	3	b-	39	75	6	-	-	0	-	0	1015.3	0	N	4	bc	37	65	7	2500	Cu	7	-	7	4

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

Stations	Weather: Forenoon	Weather: Afternoon	Temperature: Min. 9h. 14th to 9h. 15th	Temperature: Max. 9h.-17h. 15th	Rainfall†: Night 17h.-9h. 14th-15th	Rainfall†: Day 9h.-17h. 15th	Sunshine: Sunrise to Sunset. 15th
(1)	(2)	(3)	(4) °F.	(5) °F.	(6) mm.	(7) mm.	(8) hr.
Berwick-on-Tweed	Hsc	cPSc	34	40	2	0.5	0.0
Douglas (I. o. M.)	c	cbcq	34	45	0.5	-	0.7
Llandudno	cpc	c	38	45	2	0.1	0.2
Colwyn Bay	oc	co	37	45	2	-	0.0
Rhyl	cbcc	c	33	44	2	-	0.5
Wallasey	ircbc	bcb	34	42	2	0.3	1.2
Southport	ocbcco	cbcb	34	42	1	-	2.8
Blackpool	bcc	cbc	35	42	0.6	-	3.0
Ilkley	bc	bc	31	41	0.3	-	4.0
Cleethorpes	ocbc3	orrs	33	38	1	3	2.5
Skegness	csoprocbcprssc		32	40	2	0.6	4.1
Aberystwyth	cbc	dc	34	44	-	Trace	0.5
Bath	c	cprhc	34	43	-	2	0.0
Cheltenham‖	corc	chbc	32	42	-	1	0.0
Leamington Spa	cr	c	33	42	-	0.5	0.1
Lowestoft	cscrc	csc	32	38	1	2	0.0
Harwich & Dovercourt	xocrs	ocmsbc	32	39	Trace	0.3	0.3
Maldon	s bc	bcc	33	40	0.3	1	0.8
Southend	osm	cbcm₀	33	39	0.1	1	0.8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	c	c	31	45	-	-	0.0
Penzance	cbcr₀	cbcr₀	33	46	0.3	0.2	2.0
Paignton	b3bbc	ocb	35	45	-	-	3.2
Torquay	bmbc	cp₀bc	35	46	-	Trace	3.6
Jersey	cb	bcg	38	44	-	-	1.4
Weymouth	bc	cu	34	44	-	-	0.6
Bournemouth	o	oro	33	42	-	1	0.0
Ventnor	co	odor	33	40	Trace	0.3	0.0
Portsmouth (S'thsea)	op₀	om	33	41	-	0.3	0.0
Bognor	oso	rroc	31	39	-	0.5	0.0
Littlehampton	csr	cbcc	32	38	-	0.2	0.0
Worthing	csd	c	33	39	-	0.3	0.0
Brighton	scodc	co	33	39	Trace	1	0.0
Eastbourne‖	is₀or₀	rcbco	34	39	Trace	0.5	0.6
Hastings‖	osos	oc	32	39	0.1	1	0.3
Folkestone	ossm	osmcm	32	39	Trace	2	0.1
Dover	oss	os₀bc	33	39	Trace	1	0.6
Tunbridge Wells	oss	oco	32	37	0.3	2	0.0
Ramsgate	s₀bc	bc	32	38	0.3	0.5	0.5
Margate	cs₀bc	bc	33	39	Trace	1	0.3
Deal	oho	cbcc	32	38	-	1	0.3

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24528 Thursday, 17th January 1929.

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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1012·7	-2	N	4	bc/p	36	75	7	1500	CuNb	5	-	5	•
Stornoway	1020·3	-3	W	1	bc+	35	92	7	4000	CuNb	3	CiSt	7	•
Wick	1016·2	-2	N	3	c	36	85	8	1500	CuNb	6	CiSt	8	•
Tiree	1021·1	0	N	2	bc	38	75	9	2500	Cu.	3	CiCu	5	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1015·6	-3	NW	4	c9	32	92	3	2500	CuNb	9	-	9	7
Malin Head	1021·6	-1	N	2	b	39	65	9	4000	Cu.	2	CiCu	2	•
Renfrew	1019·9	-2	WNW	3	bc+	37	55	8	-	-	0	Ci	6	6
Edinburgh (Inchkeith)	1018·1	-1	NNW	3	b	34	97	8	-	-	0	A.Cu	2	•
Leuchars	1017·5	-3	NW	4	b	35	65	8	5700	St.Cu	1	A.Cu	1	3
Eskdalemuir	1019·2	-3	NNW	4	b	31	65	7	-	-	0	-	0	7
Tynemouth	1018·5	-1	NW	2	bc-	32	75	6	1500	Cu.	4	-	4	•
Blacksod Point	1022·2	0	-	0	c	41	85	8	*	St.Cu	9	-	9	•
Donaghadee	1021·3	+2	NNE	3	bc-	40	55	8	4000	Cu.	5	-	5	•
Birr Castle	1022·0	•	NNW	1	b-	37	85	7	1500	Cu.	2	-	2	•
Holyhead	1020·5	+1	-	0	b-	38	55	8	4000	St.Cu	2	-	2	1
Liverpool (Bidston)	1019·4	0	NW	3	b	34	65	7	4000	St.Cu	1	-	1	•
Chester (Sealand)	1019·3	0	NW	2	b	35	75	6	-	-	0	-	0	3
[illegible]gate	1017·7	0	SW	3	b	31	85	8	-	-	0	A.Cu	1	•
Spurn Head	1013·7	-1	NW	7	bc+	32	85	6	4000	St.Cu	5	A.Cu	7	•
Birmingham (Edgbaston)	1019·1	+1	NE	1	b	34	55	5	2500	Cu.	2	-	2	3
Cranwell	1017·3	-1	WN	3	b	30	75	6	2500	St.	1	-	1	7
Gorleston	1013·9	0	NNW	4	bc/sh	33	92	6	4000	Cu.	4	-	4	•
Valentia (Cahirciveen)	1021·9	-2	NEE	1	bc	42	65	8	4000	St.Cu	3	-	3	1
Roches Point	1022·3	-1	N	2	b	39	75	8	2500	Cu.	1	-	1	•
Pembroke (St. Ann's H.)	1020·3	-1	E	2	bc-	39	75	8	2500	Cu.	7	-	7	•
Ross-on-Wye	1019·1	+2	NEN	2	b-	36	65	7	-	-	0	-	0	1
Leafield	1018·6	+4	NNE	2	b-	33	55	8	4000	Cu.	1	-	1	3
Winchester (Worthy Dn)	1018·4	+2	N	3	b	34	55	8	4000	St.Cu	1	-	1	3
S. Farnborough	1017·9	+3	NNE	3	b	35	45	7	-	-	0	-	0	7
London (Kew Obsy.)	1017·7	+3	NW	2	b-	33	55	6	-	-	0	-	0	7
Croydon	1017·6	+2	NNE	3	zzbc	32	45	4	2500	St.Cu	3	-	3	7
Shoeburyness	1016·4	+2	NW	4	b	33	85	8	-	-	0	-	0	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1015·6	+2	NNW	3	bc	32	65	7	4000	Cu.	2	CiSt	6	8
Lympne	1015·3	+2	NNW	5	b	31	45	8	4000	CuNb	1	-	1	7
Scilly (St. Mary's)	1019·6	+3	NNE	4	c+	41	75	8	4000	St.Cu	8	-	8	•
Falmouth (Pendennis)	1019·6	0	NEN	3	bc-	38	55	8	4000	St.Cu	3	-	3	•
Plymouth (Cattewater)	1019·7	+1	NE	5	b	37	75	7	4000	Cu.	1	-	1	1
Portland Bill	1018·2	+3	NNE	4	b	36	55	8	2500	Cu.	1	-	1	•
Southampton (Calshot)	1019·1	+4	NNE	3	b	35	65	7	4000	Cu.	1	-	1	0
Dungeness	1015·6	+3	N	2	bc	32	75	8	2500	Cu.	3	-	3	•
Guernsey (Fort George)	1018·3	+1	N	3	bc	37	65	7	2500	Cu.	7	-	7	•

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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1011·1	-2	N	4	c8.	33	85	7	1500	CuNb	5	A.St.	9	•
Stornoway	1017·3	-3	-	0	bc	33	92	7	4000	CuNb	3	A.St.	7	2
Wick	1015·0	-2	N	3	c	35	75	8	1500	CuNb	6	CiSt.	8	3
Tiree	1018·7	-1	NNW	2	c	37	75	9	1500	StCu.	10	-	10	3
Nairn	1013·7	•	W	1	bc+	31	85	8	2500	CuNb	7	-	7	•
Aberdeen	1014·3	-1	NW	4	bc/p.	31	92	8	2500	CuNb	5	-	5	4
Malin Head	1020·1	-2	NW	2	bc/p	37	75	8	5700	CuNb	3	CiCu	6	0
Renfrew	1018·3	-2	WNW	2	b-	31	85	7	-	-	0	-	0	•
Edinburgh (Inchkeith)	1018·4	0	W	4	bc	34	85	8	-	-	0	A.St.	5	2
Leuchars	1015·3	-3	WNW	3	c(1)	33	65	8	4000	StCu	2	CiSt.	8	•
Eskdalemuir	1017·8	-2	WNW	4	bc(1)	27	75	7	-	-	0	CiSt.	3	•
Tynemouth	1014·3	-1	WNW	2	bc	31	85	7	1500	Cu.	4	-	4	4
Blacksod Point	1020·1	-2	S	3	c	41	75	7	•	-	0	A.St.	10	2
Donaghadee	1020·5	-1	NW	2	bc-	33	75	8	4000	StCu	3	CiCu.	4	2
Birr Castle	1021·1	•	SE	1	b	31	92	6	-	-	0	ACu	2	•
Holyhead	1019·6	-1	NNW	3	bc	38	65	8	2500	StCu	2	Ci.	6	2
Liverpool (Bidston)	1018·6	-1	NWN	4	b+	34	75	8	2500	StCu	2	ACu	2	•
Chester (Sealand)	1018·4	-1	WN	3	b	31	85	6	4000	Cu.	1	Ci.	1	•
[illegible]gate	1016·7	-1	SW	3	b	27	85	7	-	-	0	ACu	1	•
Spurn Head	1012·3	0	NW	7	bc	32	92	7	4000	StCu	4	-	4	5
Birmingham (Edgbaston)	1018·7	0	WNW	4	b	30	85	6	-	-	0	-	0	•
Cranwell	1018·7	-1	WN	4	b	27	85	6	-	-	0	-	0	•
Gorleston	1012·4	-2	NW	5	c/s	32	97	5	2500	CuNb	8	-	8	1
Valentia (Cahirciveen)	1020·7	-1	SEE	1	c	38	75	8	4000	StCu	8	-	8	0
Roches Point	1021·6	0	N	2	b	34	85	8	-	-	0	-	0	0
Pembroke (St. Ann's H.)	1020·3	0	-	0	bc	35	75	8	2500	Cu.	3	Ci.	5	0
Ross-on-Wye	1019·4	0	WS	2	b	30	85	6	-	-	0	Ci.	1	•
Leafield	1018·7	0	WN	3	b	27	75	6	-	-	0	-	0	•
Winchester (Worthy Dn)	1019·4	+1	WN	3	b	26	75	8	-	-	0	-	0	•
S. Farnborough	1018·5	+1	WN	2	b	28	65	7	2500	StCu	1	-	1	•
London (Kew Obsy.)	1018·0	+1	W	2	b	30	55	5	-	-	0	-	0	•
Croydon	1018·0	+1	NW	4	b/m	28	55	5	-	-	0	-	0	•
Shoeburyness	1018·3	0	WNW	3	b	29	97	7	-	-	0	-	0	•
Clacton-on-Sea	1015·3	-1	NNW	3	b	29	85	6	-	-	0	-	0	3
Felixstowe	1014·7	-1	NW	3	b	30	65	7	-	-	0	-	0	6
Lympne	1016·3	+1	WN	4	b	24	55	6	-	-	0	-	0	•
Scilly (St. Mary's)	1020·5	+1	-	0	bc	38	75	8	4000	Cu.	5	-	5	1
Falmouth (Pendennis)	1020·5	+1	-	0	b-	36	75	7	4000	StCu	2	-	2	0
Plymouth (Cattewater)	1020·8	+2	-	0	b+	33	75	7	800	St.	2	-	2	0
Portland Bill	1019·6	+3	-	0	b	34	75	6	-	-	0	-	0	0
Southampton (Calshot)	1019·9	+2	WNW	2	b	30	75	6	-	-	0	-	0	0
Dungeness	1016·7	+2	WNW	2	b-	25	55	7	-	-	0	-	0	1
Guernsey (Fort George)	1020·2	+4	N	2	b-	36	55	9	2500	Cu.	2	-	2	0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 HOURS ENDED 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (YESTERDAY.)	Humidity. 9h. G.M.T. % (TO-DAY.)	Visibility.
Kew	18	csc by	byz	bm bbc	34	25	15	0·2	-	6·0	*	*	3
Croydon	224	cmfs	bcbm	bbczx	33	26	21	0·1	-	3·8	*	*	5
Greenwich (Royal Obsy.)	149	cbzx	bzxm	bzcxm	33	25	19	-	-	4·5	73	82	3
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	2·9	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	36	25	17	-	-	4·3	78	83	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	5·6	*	*	*
Camden Square	110	cbcb	b	*	35	25	-	-	-	*	*	100	*
Kensington Palace	80	bc	bc	*	34	26	23	-	-	*	At 18h.	86	*
Hampstead Observatory	450	*	*	*	31	21	15	Tr	-	5·8	*	94	*

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington

Max.	Time	Min.	Time.
1·0	16th 21h	0·3	17th 3h

Kew Observatory

Max.	Time.	Min.	Time.
0·3	16th 18h	0·1	16th 13h

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	Defective		
3 Ursae Minoris			

CODE FOR STATE OF GROUND.

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

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

17th and 18th Jan. 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·58	12·3	16·9
	7·57	12·4	16·10
Greenwich	8·0	12·10	16·21
	7·59	12·10	16·22
Wick	8·50	12·23	15·56
	8·48	12·23	15·58
Valentia	8·43	12·31	17·0
	8·42	12·51	17·1

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

< = less than (for cloud height). < = before (for precipitation).
⊕ = solar halo. (1) = lunar halo.

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

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

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

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

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

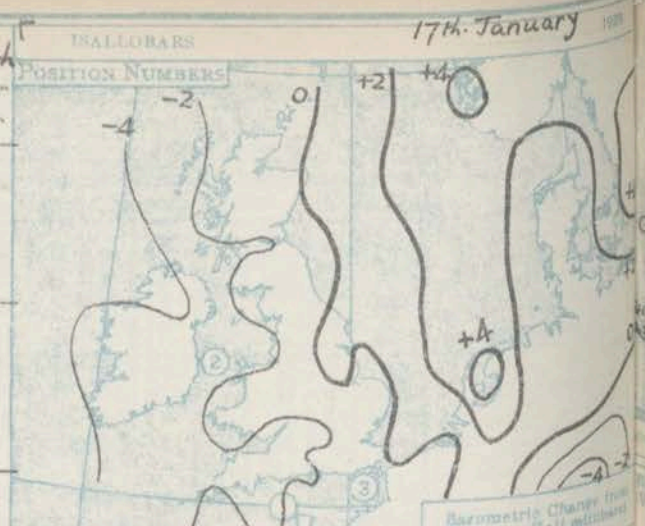
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6½ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 16th	13h.-18h. 16th	18h. 16th to 1h. 17th	1h.-7h. 17th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	Rainfall† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm	began.	80% 16th Hours.
Lerwick	bccpsq	bccpsq	cps	cps bc	37	28	•	0.6	<8.00	1	<21.00	2.2
Stornoway	bcps₀	c	cps o	o	36	29	•	0.4	<8.00	0.3	22.00	1.5
Wick	phs₀c	cpsc	c ops	cps	37	30	•	0.4	<8.00	1	22.00	4 •
Tiree	bc	bcc	bc c	cprs	39	32	26	-	-	0.2	4.30	3.5
Nairn	bcjps	bcx	bcc	csp	34	30	•	-	-	0.3	3.30	1.3
Aberdeen	bcps	cps	bcps₀	bccz₀	32	29	25	5	<8.00	0.2	<21.00	1.4
Malin Head	bv	bvbc	bcbbcc	c	41	31	•	-	-	-	-	5.0
Renfrew	bz₀bcy	bcycb	bbcx	bcxc	38	28	21	-	-	-	-	4.1
Edinburgh(Inchkeith)	b-bc	bbc	b-bc	bccos₀s₀	36	32	30	-	-	Trace	6.30	5.3
Leuchars	bbcb	bbc₀c	c	c	35	30	27	-	-	-	-	5.4
Eskdalemuir	bcps₀b	bbc	bbc	bcc	31	26	23	Tr	9.00	-	-	5.7
Tynemouth	bc	bc	bc	bc	35	29	24	-	-	-	-	•
Blacksod Point ...	c	c	cd	d₀o	42	40	•	-	•	0.4	•	•
Donaghadee	bc	bc	bcx	bcx	41	29	•	-	-	-	-	•
Birr Castle	cbcb	bm₀	bbcck	cx	41	25	14	-	-	-	-	5.6
Holyhead	bbc	bcph₀	bcb	bbc	42	35	31	Tr	14.30	-	-	4.0
Liverpool (Bidston) ...	bxb	b	bbcc	cbc	35	33	27	-	-	-	-	5.6
Chester (Sealand) ...	bm₀z₀	bzx	bbcm₀x	crs₀m₀x	36	30	26	-	-	0.1	1.30	6.6
Harrogate	b	b	b	bbcc	31	25	19	-	-	-	-	5.9
Spurn Head	bc	bcq	bc	bc	35	30	•	-	-	-	-	5.7
Birmingham(Edgbaston)	bcb	b	b	bbcc	34	28	23	-	-	-	-	2.7
Cranwell	osfb	bbcb	bm₀	bm₀c	30	23	21	1	<8.00	-	-	5.8
Gorleston	bcihs₀xq	bcpscq	cis₀xq	bcisxq	35	29	26	0.1	<8.00	0.1	<21.00	2.2
Valentia(Cahirciveen)	bc	bcvc	c	cbc	45	37	36	-	-	-	-	4.9
Roches Point	b	bx	bx	bbcx	42	30	•	-	-	-	-	•
Pembroke(St.Ann's H.)	cbc	bc	bc	bc	40	34	•	-	-	-	-	7.0
Ross-on-Wye	cb	b	bbc	bccx	37	26	17	-	-	-	-	5.7
Leafield	bccps₀b	b	b	bbc	34	25	19	Tr	9.00	-	-	6.3
Winchester (Worthy Dn.)	bcs₀by	by	bbc	b	34	23	16	(Tr)	9.00	-	-	6.1
S. Farnborough ...	cs₀s₀mb	byb	b	b	37	24	15	0.3	<8.00	-	-	6.2
London (Kew Obsy.) ...	osqby	byz	bm₀	bbcm₀	34	25	15	0.2	9.00	-	-	6.0
Croydon	cmfs	bcbm	bbcz₀x	bbcz₀x	33	26	21	0.1	9.00	-	-	3.8
Shoeburyness	os₀sb	b	bx	bcx	35	25	23	0.6	<8.00	-	-	6.6
Clacton-on-Sea ...	ogscbc	bcb	b	bbc	31	25	18	2	<8.00	-	-	6.9
Felixstowe	os₀cbbc	b	bx	bx	32	27	26	Tr	<8.00	-	-	6.8
Lympne	bossb	bz₀	bm₀	bbcm₀x	31	21	19	0.2	9.00	-	-	6.3
Scilly (St. Mary's) ...	bc	cbc	bc	bc	42	38	•	-	-	-	-	3.5
Falmouth (Pendennis)	cbc	bcb	bbc	bccr₀	39	31	•	-	-	Trace	6.30	6.1
Plymouth(Cattewater)	bcxm₀	bm₀	bx	bxcm₀	38	24	20	-	-	-	-	7.5
Portland Bill	bbcb	bz₀	bbcb	bc	37	33	•	-	-	-	-	•
Southampton(Calshot)	bcxb	by	bx	bx	35	25	19	-	-	-	-	5.7
Dungeness	bc	bcbx	b	bbcx	33	23	•	0.4	<8.00	-	-	•
Guernsey	bc	bcyb	bv	bbcvx	38	33	•	-	-	-	-	4.0



Observations from Cross Channel Steamers

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	16th 10h	Scotia	NE'N	3	ct	39	46
3	17th 2h	Arundel	NW	5	bc	38	45

GENERAL INFERENCE.

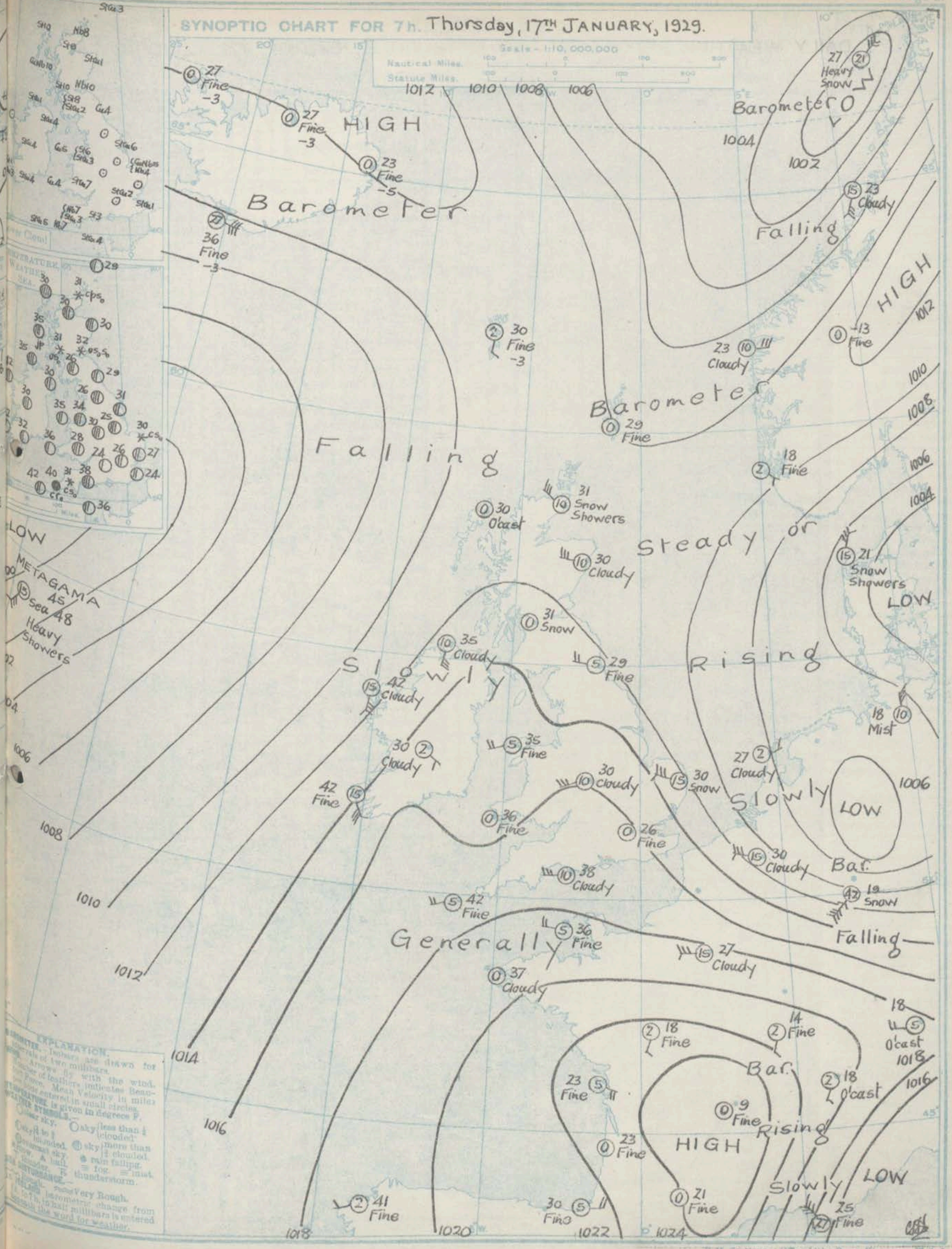
A ridge of high pressure moving eastwards across the British Isles will be followed by a depression from the Atlantic and the cold weather be replaced by milder and less settled conditions.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 17th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Variable to westerly or southwesterly winds, light to moderate or fresh; cloudy with snow showers at first, followed by sleet then rain or drizzle; local mist; temperature rising.	Milder and less settled.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Variable to southwesterly winds, light to fresh; cloudy periods, occasional sleet, rain or drizzle; snow at first on hills; temperature rising.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.	
12. S.W. Scotland & Isle of Man 13. A. W. Scotland / B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	As 5 - 8.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Southerly to southwesterly winds, moderate to strong; bright and cloudy periods; occasional sleet then rain or drizzle; milder.	

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

† For code see page 1

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Thursday, 17th January....1929. No. 17

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

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10
Lerwick	66	1009A	-1	N	2	cjp	32	92	7	1500	Nb	8	-	8
Stornoway	30	1014.2	-4	NNW	1	c/ps	*	*	6	*	*	*	*	10
Wick	81	1012.5	-3	NNW	3	o/ps	32	97	8	1500	Nb	10	-	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	83	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	91	1016.3	-3	S	2	c+	34	85	8	4000	Cu	1	ASt	9
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1014.0	-3	W	3	bc	32	97	8	1500	St	3	-	3
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1014.1	-1	WNW	2	bc	29	92	7	1500	Cu	4	-	4
Blacksod Point	18	1014.8	-3	S	4	od	41	75	6	*	Nb	10	-	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1017.0	-3	NW'W	3	b	37	65	8	2500	St	2	-	2
Liverpool (Bidston)	100	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1012.2	0	NW	6	bc	32	92	7	2500	St	5	-	5
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1015.6	-2	W'N	4	b	28	85	5	-	-	0	-	0
Gorleston	14	1012.2	0	NW'W	4	b	30	92	7	-	-	0	-	0
Valentia (Cahirciveen)‖	30	1018.5	-5	SSE	1	bc	40	97	9	-	CuNb	3	-	3
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1017.8	-1	-	0	c+	37	85	8	1500	Cu	5	ASt	8
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	18	*	*	*	*	*	28	*	*	*	*	*	*	*
Croydon	244	1017.3	-1	W'N	4	bc+	27	85	6	-	-	0	CuSt	4
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1015.8	0	WNW	4	bt	25	85	5	-	-	0	Ci	2
Scilly (St. Mary's)	163	1019.1	-2	-	0	bc+	38	85	8	4000	StCu	7	-	7
Falmouth (Pendennis)	200	1019.7	0	-	0	bc+	33	75	7	4000	StCu	3	-	3
Plymouth (Cattewater)	89	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1018.8	-1	W	3	b	36	65	8	2500	StCu	1	-	1
Southampton (Calshot)	10	1019.0	-2	WSW	2	b	27	85	7	-	-	0	-	0
Dungeness	20	1015.9	0	WNW	3	b	27	97	7	-	-	0	-	0
Guernsey (Fort George) ‖	205	1022.6	-2	-	0	bc	31	92	6	2500	Cu	4	-	4

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

Stations	Barom. at M.S.L. mb.	Change in 3 hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	1010.0	0	-	0	bc/S(h)	29	92	8	1500	StCu	3	-	3	*
Stornoway	1011.5	-2	-	0	0	30	97	6	2500	St	10	-	10	2
Wick	1011.0	-1	NW	3	c/ps	31	97	7	1500	NB	8	-	8	4
Tiree	1012.0	-2	S	3	cjp	35	97	7	1500	CuNb	10	-	10	1
Nairn	1011.4	*	-	0	c/S(h)	30	85	7	1500	St	9	-	9	*
Aberdeen	1011.6	0	WNW	3	c	30	85	6	2500	StCu	1	ASt	8	4
Malin Head	1012.7	-4	S	3	c	35	92	8	5700	StCu	1	ASt	9	0
Renfrew	1013.6	-1	-	0	os	31	97	6	2500	St	10	-	10	*
Edinburgh (Inchkeith)	1012.8	-2	W	2	os	32	97	6	1500	NB	10	-	10	0
Leuchars	1012.5	-1	WNW	2	c	33	75	8	-	-	0	CuSt	8	*
Eskdalemuir	1013.8	-1	-	0	c+	26	85	7	1500	St	10	-	10	*
Tynemouth	1012.7	-1	WNW	2	bc	29	92	6	1500	Cu	4	-	4	2
Blacksod Point	1011.6	-3	S	4	c	42	92	6	*	-	0	ASt	10	4
Donaghadee	1015.5	-3	NW	1	bc	30	85	8	4000	StCu	4	-	4	1
Birr Castle	1014.8	*	SE	1	c+	30	92	7	2500	StCu	4	ASt	9	*
Holyhead	1015.1	-2	W'S	2	bc	35	65	7	2500	Cu	5	Ci	5	0
Liverpool (Bidston)	1014.4	-2	W'N	4	c	34	65	8	4000	St	9	-	9	*
Chester (Sealand)	1014.9	-1	SW'W	-	c-	33	75	5	2500	StCu	8	-	8	*
Harrogate	1014.0	0	SW	3	c	26	92	8	-	-	0	CiCu	9	*
Spurn Head	1012.1	0	NW	6	bc	31	92	6	5700	StCu	6	-	6	5
Birmingham (Edgbaston)	1015.8	-1	WSW	3	c+	30	75	7	-	-	0	ASt	9	*
Cranwell	1015.2	0	W	3	c+	25	92	5	-	-	0	Ci	9	1
Gorleston	1012.2	0	WNW	4	cs	30	97	6	2500	CuNb	9	-	9	*
Valentia (Cahirciveen)‖	1014.0	-4	SSE	4	bc	42	75	8	2500	StCu	4	-	4	1
Roches Point	1016.8	-3	N	1	bc	32	85	8	2500	StCu	4	-	4	0
Pembroke (St. Ann's H.)	1015.5	-1	-	0	bc-	36	97	8	2500	Cu	4	ACu	6	0
Ross-on-Wye	1016.5	-2	-	0	c	28	92	6	4000	StCu	7	ACu	8	*
Leafield	1016.1	-2	W	4	c+	29	85	8	5700	StCu	8	-	8	*
Winchester (Worthy Dn.)	1017.4	-2	W	1	b	23	92	7	4000	StCu	2	-	2	*
S. Farnborough	1016.7	-2	W	2	b	24	92	7	-	-	0	Ci	1	*
London (Kew Obsy.)	1016.6	-1	-	0	bc+	26	92	5	2500	StCu	2	CiSt	4	*
Croydon	1016.5	-1	NWW	2	bc+	26	85	5	-	-	0	CiSt	5	*
Shoeburyness	1015.1	-1	WNW	3	bc	27	92	7	4000	Cu	1	CiSt	3	1
Clacton-on-Sea	1014.1	0	WNW	3	bc	27	97	7	-	-	0	ACu	3	3
Felixstowe	1014.2	0	WNW	4	b	28	85	7	-	-	0	Ci	2	*
Lympne	1015.4	0	WNW	4	bc+	22	85	6	-	-	0	Ci	4	*
Scilly (St. Mary's)	1016.8	-2	W'S	2	bc	42	92	8	4000	StCu	5	-	5	1
Falmouth (Pendennis)	1016.9	-2	SSW	3	cs	40	75	8	2500	NB	7	ASt	10	1
Plymouth (Cattewater)	1017.4	-3	ENE	2	cs	31	92	6	2500	NB	10	-	10	0
Portland Bill	1017.2	-2	W	3	c	38	65	8	1500	St	3	ACu	8	0
Southampton (Calshot)	1017.4	-2	W'N	3	b	27	85	7	2500	Cu	1	ACu	2	2
Dungeness	1015.5	-1	WNW	3	bc	24	85	7	4000	StCu	1	CiSt	4	2
Guernsey (Fort George) ‖	1019.1	-2	WNW	2	bc+	36	65	9	4000	StCu	4	ACu	7	0

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 8h. 15th to 9h. 16th °F.	Temperature. Max. 9h. 16th - 17h. 16th °F.	Rainfall.† Night 17h. 15th - 9h. 16th mm.	Rainfall.† Day 9h. 16th - 17h. 16th mm.	Sunshine. Sunrise to Sunset. 16th hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	Scbc	c	28	36	3	-	5.3
Douglas (I. o. M.)	xb	xb	30	37	-	-	6.0
Llandudno	bcb	bbc	35	39	-	-	5.8
Colwyn Bay	cb	b	35	39	-	-	6.0
Rhyl	b	b	35	38	-	-	6.9
Wallasey	b	b	30	36	-	-	6.2
Southport	b	bbcb	‡30	36	-	-	6.7
Blackpool	bcb	bbc	30	38	-	-	6.4
Ilkley	xbc	b	21	35	3	-	4.5
Cleethorpes	sb	bbc	28	37	3	-	6.0
Skegness	scbcxb	bx	28	39	7	-	5.2
Aberystwyth	bc	bc	33	40	-	-	7.0
Bath	cps,b	b	29	35	-	Trace	5.6
Cheltenham	cbc	b	29	34	-	-	5.1
Leamington Spa	b	b	29	36	-	-	5.0
Lowestoft	cpsbc	bccbc	28	34	1	Trace	4.3
Harwich & Dovercourt	sbc	bc	28	32	4	-	6.6
Maldon	sb	b	28	32	1	-	5.6
Southend	bm,	bm,	28	35	1	-	6.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ncob	bbc	27	38	1	-	7.4
Penzance	cb	b	37	42	3	-	4.3
Paignton	bmx	bcbm	31	38	-	-	5.0
Torquay	bm	bbcbm	29	37	-	-	5.1
Jersey	bc	bc	35	40	1	-	3.7
Weymouth	xb	b	28	37	0.2	-	7.6
Bournemouth	b	b	28	36	-	-	7.3
Ventnor	xb	b	29	34	0.3	-	6.0
Portsmouth (S'thsea)	cb	b	30	36	-	-	5.2
Bognor	oscb	b	30	34	-	Trace	5.4
Littlehampton	cscbc	bcb	29	34	-	1	5.7
Worthing	csbc	bcb	29	34	-	0.5	5.3
Brighton	scbco	co	29	34	Trace	0.2	4.3
Eastbourne	ossob	b	29	36	0.1	1	5.3
Hastings	sgbcb	bbc	29	38	0.1	1	5.9
Folkestone	osbcbc	bc	28	33	0.3	-	5.9
Dover	cbc	bcbm	28	33	3	-	6.0
Tunbridge Wells	osocb	bcc	28	35	1	Trace	5.6
Ramsgate	bc	bcb	29	34	1	-	5.4
Margate	bc	bc	29	34	1	-	5.3
Deal	scbc	bbc	28	33	2	-	5.0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24529 Friday 18th January 1929.

Observations at 13h. G.M.T. 17th — Observations at 18h. G.M.T. 17th

STATIONS. (For heights see p. 4).	13h Barom. at M.S.L. mb.	13h Change in 3 Hours‡	13h Wind Direc.	13h Wind Force 0-12	13h Weather	13h Temp. °F.	13h Humidity %	13h Visibility§ 0-9	13h Low Cloud Height Feet	13h Low Cloud Form	13h Low Cloud Amt. 0-10	13h Upper Form	13h Total Amt. 0-10	State of ground	18h Barom. at M.S.L. mb.	18h Change in 3 Hours‡	18h Wind Direc.	18h Wind Force 0-12	18h Weather	18h Temp. °F.	18h Humidity %	18h Visibility§ 0-9	18h Low Cloud Height Feet	18h Low Cloud Form	18h Low Cloud Amt. 0-10	18h Upper Form	18h Total Amt. 0-10	Sea 0-9
Lerwick	1008.0	0	W	1	bc	34	95	8	1500	Cu.	3	Ci.St.	4	•	1004.5	-4	SW	2	c	37	97	7	1500	St.Cu.	5	A.St.	9	•
Stornoway	1010.6	-2	SW	1	bc-	39	85	6	4000	St.Cu.	4	-	4	•	1009.3	-3	-	0	c	36	92	6	4000	St.Cu.	8	-	8	0
Wick	1011.0	0	WSW	2	bc	31	92	8	2500	Cu.	3	Ci.Cu.	5	•	1010.0	-2	W	2	b	27	92	8	-	-	0	-	0	0
Tiree	1010.5	-2	S	4	or₀r₀	39	92	7	1500	Nb.	10	-	10	2	1010.3	0	S	1	c	39	97	7	1500	Cu.Nb.	9	-	9	2 (1)
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.3	*	-	0	bc-	26 (27)	75	8	1500	St.	3	-	3	*
Aberdeen	1012.1	-1	W	1	b	33	75	7	2500	Cu.Nb.	1	A.Cu.	1	7	1011.4	-1	SW	2	b	24	85	6	-	-	0	-	0	0
Malin Head	1011.8	-1	S	4	c	37	85	8	5700	St.Cu.	8	A.Cu.	9	•	1011.3	0	S	4	cd₀	37	92	7	4000	Nb.	3	A.St.	10	1
Renfrew	1013.1	-1	SW	1	mmc	33	97	4	5700	St.Cu.	10	-	10	7	1012.9	0	SW	3	c	36	85	7	4000	St.Cu.	10	-	10	•
Edinburgh (Inchkeith)	1013.0	-1	SW	2	mmo	34	92	4	450	St.	10	-	10	•	1012.5	0	WSW	2	c-	35	92	6	800	St.	8	-	8	[illegible]
Leuchars	1012.4	-1	W	2	bc-	33	75	7	5700	St.Cu.	1	A.St.	5	4	1012.7	0	WSW	3	b-	26	97	6	5700	St.Cu.	1	-	1	*
Eskdalemuir	1014.4	0	-	0	c	29	85	8	1500	St.Cu.	9	-	9	7	1014.7	0	-	0	bc⊕	24	97	8	-	-	0	Ci.St.	3	*
Tynemouth	1013.5	+1	W	2	c+	33	92	5	800	St.	5	A.St.	8	•	1014.2	+1	W	1	~~[struck out]~~ ffbc	30	92	3	800	St.	3	-	3	2
Blacksod Point	1020.0	0	S	4	c	46	92	8	*	Cu.Nb.	8	-	8	•	1019.5	0	-	0	c	46	92	7	*	-	0	A.St.	10	2
Donaghadee	1014.9	-1	WSW	1	cs	34	92	6	1500	Nb.	9	-	9	•	1014.6	-1	SSW	2	~~[struck out]~~ cr₀	35	92	6	1500	Nb.	9	-	9	2
Birr Castle	1013.0	•	ESE	1	cr₀r	37	65	6	1500	Nb.	9	-	9	•	1012.2	•	SSE	1	cr₀	39	92	6	1500	Nb.	3	A.St.	10	•
Holyhead	1014.8	-1	SW	1	cs₀	39	65	9	5700	St.	9	-	9	1	1015.7	+1	S	1	or₀r₀	36	92	6	1500	Nb.	10	-	10	0
Liverpool (Bidston)	1014.9	0	WN	3	c⊕	37	65	8	~~2500~~	~~St.Cu.~~	~~8~~	Ci.St.	9	•	1015.9	+1	WS	2	c	35	75	7	-	-	0	A.St.	10	•
Chester (Sealand)	1015.0	0	W	2	bc	38	55	6	4000	St.Cu.	2	A.Cu.	7	3	1016.0	+2	SWS	1	c+	34	85	6	4000	St.Cu.	10	-	10	•
[illegible]gate	1014.5	0	SW	3	c	34	85	7	-	-	0	A.Cu.	8	•	1015.5	+1	WSW	3	o⊕	30	92	7	-	-	0	Ci.St.	1	•
[illegible]n Head	1014.0	0	NW	1	c	33	92	6	2500	St.	4	A.St.	9	•	1015.3	+1	NWW	3	bc-	33	85	6	2500	St.	4	-	4	5
Birmingham (Edgbaston)	1016.0	0	WSW	2	bc⊕	35	65	6	-	-	0	A.Cu.	7	3	1017.4	+1	WSW	1	c+	33	75	5	2500	St.Cu.	9	-	9	•
Cranwell	1015.1	-1	W	3	c	33	85	5	5700	St.Cu.	10	-	10	7	1016.4	+2	W	2	c-	32	85	5	4000	St.	3	A.St.	9	•
Gorleston	1014.3	+1	WNW	3	cs₀	32	97	5	2500	Cu.Nb.	7	A.St.	10	•	1015.4	+1	W	2	bc-	32	92	5	1500	St.	4	-	4	0
Valentia (Cahirciveen)	1012.6	-3	SE	4	c	46	92	8	800	St.	10	-	10	3	1012.3	0	SW	3	cd₀	46	92	7	800	St.	10	-	10	1
Roches Point	1015.6	-2	N	2	cr₀	40	92	8	1500	Nb.	9	-	9	•	1014.1	-1	SW	3	cr	46	92	8	1500	Nb.	9	-	9	4
Pembroke (St. Ann's H.)	1015.1	-1	SSW	2	bc	44	65	8	2500	Cu.	3	A.Cu.	5	•	1015.1	0	SSW	2	c+	43	75	8	4000	St.Cu.	6	Ci.St.	10	0
Ross-on-Wye	1016.1	0	SW	2	c	37	85	5	5700	St.Cu.	3	A.Cu.	8	3	1016.6	+1	-	0	fc+	33	85	3	-	-	0	A.Cu.	9	•
Leafield	1016.4	0	SWW	3	c	33	85	7	-	-	0	A.Cu.	9	3	1017.3	+1	WS	2	c	31	92	6	5700	St.Cu.	8	-	8	•
Winchester (Worthy Dn)	1017.4	0	WS	2	oss	31	92	5	1500	St.	10	-	10	7	1017.1	+1	-	0	o	32	97	6	800	St.	10	-	10	•
S. Farnborough	1016.8	-1	WSW	3	os₀	34	85	6	4000	Nb.	10	-	10	4	1017.2	0	SSW	1	ffo	32	97	3	1500	St.	10	-	10	•
London (Kew Obsy.)	1016.8	-1	W	2	c	35	75	6	5700	St.Cu.	9	-	9	7	1017.8	+1	SW	1	c	33	92	5	4000	St.Cu.	9	-	9	•
Croydon	1016.8	-1	WNW	3	c+	35	75	5	7200	St.Cu.	10	-	10	7	1017.5	+1	SW	1	c-	31	92	5	5700	St.Cu.	8	-	8	•
Shoeburyness	1016.1	0	W	2	fc+	34	85	3	2500	St.	5	A.Cu.	8	*	1017.3	+1	WS	2	bc-	32	97	6	-	-	0	A.Cu.	7	
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.0	+1	W	3	bc	32	85	6	4000	St.Cu.	3	-	3	3
Felixstowe	1015.5	+1	WN	4	c	33	85	6	-	-	0	A.Cu.	9	7	1016.9	+2	WSW	3	b	33	85	6	-	-	0	-	0	1
Lympne	1016.4	0	W	3	c	32	75	6	7200	St.Cu.	10	-	10	7	1017.3	+1	SWW	2	c	31	85	6	4000	St.Cu.	10	-	10	•
Scilly (St. Mary's)	1016.8	0	W	1	bc	48	75	8	4000	Cu.	5	-	5	•	1016.4	0	WSW	2	bc	44	85	8	4000	St.Cu.	~~4~~ 5	-	~~4~~ 5	1
Falmouth (Pendennis)	1016.3	-1	NW	2	bc	44	75	8	4000	Cu.	4	Ci.	6	•	1016.4	+1	-	0	c+	42	85	7	4000	St.Cu.	9	-	9	0
Plymouth (Cattewater)	1016.5	-2	WNW	2	mmc	41	85	4	4000	St.Cu.	9	-	9	1	1016.7	+1	-	0	c	41	92	6	4000	St.Cu.	8	Ci.St.	9	0
Portland Bill	1016.2	-2	WS	3	cr₀	40	92	6	1500	St.	9	A.St.	10	•	1016.4	+1	N	2	c	38	85	6	4000	St.Cu.	10	-	10	1
Southampton (Calshot)	1018.0	-1	WNW	2	os₀d₀	33	92	6	1500	St.	10	-	10	7	1017.6	+1	NE	2	mmo	34	92	4	450	St.	10	-	10	0
Dungeness	1016.4	+1	NW	2	c	34	97	7	4000	St.Cu.	4	A.Cu.	10	•	1017.7	+2	W	2	c	34	85	7	4000	St.Cu.	10	-	10	1
Guernsey (Fort George)	1018.7	-1	SW	3	cr₀	40	85	7	1500	St.	4	A.St.	10	•	1017.5	-1	WSW	4	crr	42	97	7	1500	Nb.	8	A.St.	10	4

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

Station	Height above M.S.L. in feet	Weather Morning (24 Hours ended 9h)	Weather Afternoon	Weather Night	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h G.M.T. % (Yesterday)	Humidity 9h G.M.T. % (To-day)	Visibility 9h
Kew	18	bcofc	cm₀	ofofs₀	35	29	22	-	0.1	0.1	*	*	3
Croydon	244	bcac	cz₀	cbomss	35	28	25	-	Tr	0.0	*	*	5
Greenwich (Royal Obsy.)	149	cmx	cm	ofbacs	35	27	21	-	Tr	0.0	79	89	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0.0	*	*	-
Westminster (St. James' Pk.)	37	*	*	*	36	28	23	-	-	0.0	74	74	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	oc	c	*	33	31	-	-	0.5	*	*	91	*
Kensington Palace	80	bc	c	*	35	30	26	-	0.3	*	(At 18h) 79	89	*
Hampstead Observatory	450	*	*	*	33	27	21	Tr	0.5	0.0	*	96	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
1.3	17th 10h	0.3	18th 4h

Kew Observatory			
Max.	Time.	Min.	Time.
0.7	17th 20h	0.1	17th 13h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 17th 17 h. 30 m. to 18th 6 h. 45 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13.15	2.32	19
δ Ursae Minoris	13.15	0.47	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.
18th & 19th Jan., 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.57 / 7.56	12.4 / 12.4	16.10 / 16.12
Greenwich	7.59 / 7.58	12.10 / 12.11	16.22 / 16.24
Wick	8.48 / 8.47	12.23 / 12.23	15.58 / 16.0
Valentia	8.42 / 8.41	12.51 / 12.52	17.1 / 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.
lp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r) = "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r₀ = slight rain.
rr = continuous rain.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

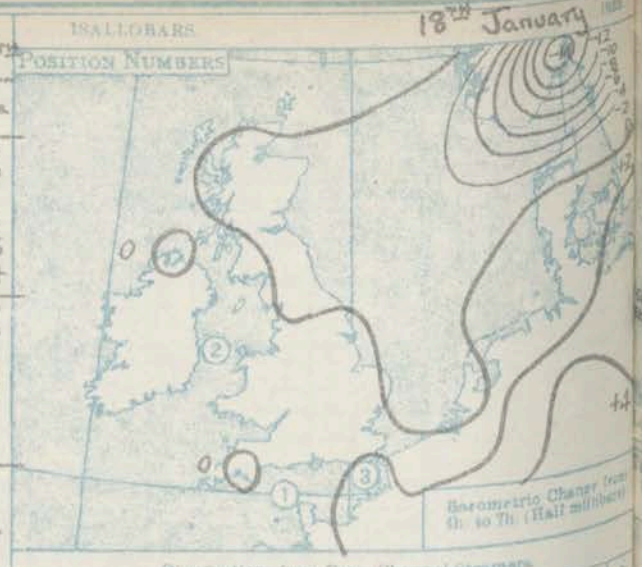
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-18h. 17th	18h.-18h. 17th	18h. 17th to 1h. 18th	1h.-7h. 18th	Temperatures. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	Rainfall.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	Sun 17th Hours.
Lerwick	bc	bcc	c1rc	c1rc	37	36	•	-	-	6	<21.00	3.3
Stornoway	ocbcz	bbcc	b-bc	b bc c	39	32	•	-	-	-	-	3.6
Wick	cbc	b-bc	b-bc	c	34	23	•	0½	<8.00	-	-	•
Tiree	o1r	r1r0	d0cbc	bcc	40	37	34	2	<8.00	0.3	<21.00	0.0
Nairn	cbc	bcx	bcbx	bc	32	23	•	-	-	-	-	4.5
Aberdeen	cbcz0b	bz0	bz0z	bz0bc	35	17	9	-	-	-	-	5.4
Malin Head	c	cod0	cd0bcb	bbccm0D	38	35	•	0.2	14.30	0.6	<21.00	0.0
Renfrew	as3m	cfmc	c	c	36	34	33	Tr.	<8.00	-	-	0.0
Edinburgh (Inchkeith)	ois0mm	omncm0	coits0	oits0cbc	35	34	30	Tr.	<8.00	Tr	24.00	0.0
Leuchars	3bc	bm0bm0	bxcxm0	bccxm0	33	25	19	-	-	-	-	0.0
Eskdalemuir	c	cbc	os0s3m0	ois0m0	31	23	23	-	-	3	<21.00	0.0
Tynemouth	bam0	cbcff	bcff	bco	33	28	23	-	-	-	-	•
Blacksod Point ...	p0c	pc	p0	0	47	45	•	2	•	8.5		•
Donaghadee	bccis	is1s0	c1rc	cs	35	34	•	2	11.00	2	<21.00	•
Birr Castle	c1rs	c1r0	c1r0	o1d0	40	38	34	1	9.00	1	<21.00	0.0
Helyhead	c⊘	s0c1r0	rrrrm0	om0d	40	36	35	1	12.30	7	<21.00	0.1
Liverpool (Bidston) ...	c	c	cosrs	rs od0	37	33	31	-	-	2	<21.00	1.0
Chester (Sealand) ...	cm0	cyz0	cm0ors0	cr0r0m0	38	33	31	-	-	2	<21.00	0.4
Harrogate	c	cb	bbc	bccor0	35	29	24	-	-	Tr	6.30	0.6
Spurn Head	c	cm0cbc	bembcmo	cmcbc	34	29	•	-	-	-	-	0.0
Birmingham (Edgbaston)	cbc	bc	cos	oss	36	31	29	-	-	3	24.00	1.0
Cranwell	bacm0	cm0	m0 bcf	fbcb	33	26	23	-	-	-	-	0.0
Gorleston	cis0x	cis0xcm0	bcbm0x	bm0cx	34	25	21	0.1	<8.00	-	-	0.0
Valentia (Cahirciveen)	cid1r0	cir0d	cd0r0	cp0	47	45	43	3	9.00	1	<21.00	0.0
Roches Point	bcsir0	cir	cir0c	c	46	45	•	3	12.30	0.1	<21.00	•
Pembroke (St. Ann's H.)	bc	bcc	cir	cbcr0	45	42	•	-	-	2	<21.00	2.9
Ross-on-Wye	c	cm	cfco	s1sbc	38	32	27	-	-	1	1.30	0.8
Leafield	c	cbc	cos	cfsc	35	29	25	-	-	21	24.00	0.9
Winchester (Worthy Dn.)	bacm0ss	oism0	off	offosff	32	29	28	0.4	11.00	1	5.30	0.0
S. Farnborough ...	cps0m0	asr0s0g	off	ofosm	35	32	28	0.2	11.00	0.3	5.30	0.0
London (Kew Obsy.) ...	bcofc	cm0	cf	cfofs0	35	29	22	-	-	0.1	6.30	0.1
Croydon	baxc	cz0	cbcm0x	bcoxs0s0	35	28	25	-	-	Tr	6.30	0.0
Shoeburyness	baxcf	cfcm	cmbcfx	bfcmx	36	26	15	-	-	-	-	0.1
Clacton-on-Sea ...	bac	cbc	bcbm	bmogfx	34	25	19	-	-	-	-	1.6
Felixstowe	bcz0c	cbcz0	bbcm	cmofx	35	24	16	-	-	Tr	-	1.6
Lympne	bcam0	cm0	cbcx m0	bcxcm0	34	26	14	-	-	-	-	0.3
Scilly (St. Mary's) ...	bc	bc	bccp	CTTbc	48	44	•	-	-	3	24.00	6.4
Falmouth (Pendennis)	c0bc	bcc	cr0	cbcr0	47	40	•	Tr.	<8.00	1	24.00	2.6
Plymouth (Cattewater)	cm0s0	cmv	cm	cr0c	44	36	33	0.1	<8.00	0.2	3.30	0.5
Portland Bill	cp20b0z	os0cz0	cbcz0	bcor0r0	41	34	•	2	<8.00	1	5.30	•
Southampton (Calshot)	bcxm0s0	os0cbcxm	cm0	cmf5cm0	35	31	29	1	11.00	0.4	4.30	0.0
Dungeness	c	c	cbcx	bccmm	35	23	•	-	-	-	-	•
Guernsey	bcr0m0	c1r1rr0	crroc	c	42	40	•	1	9.00	3	<21.00	0.0



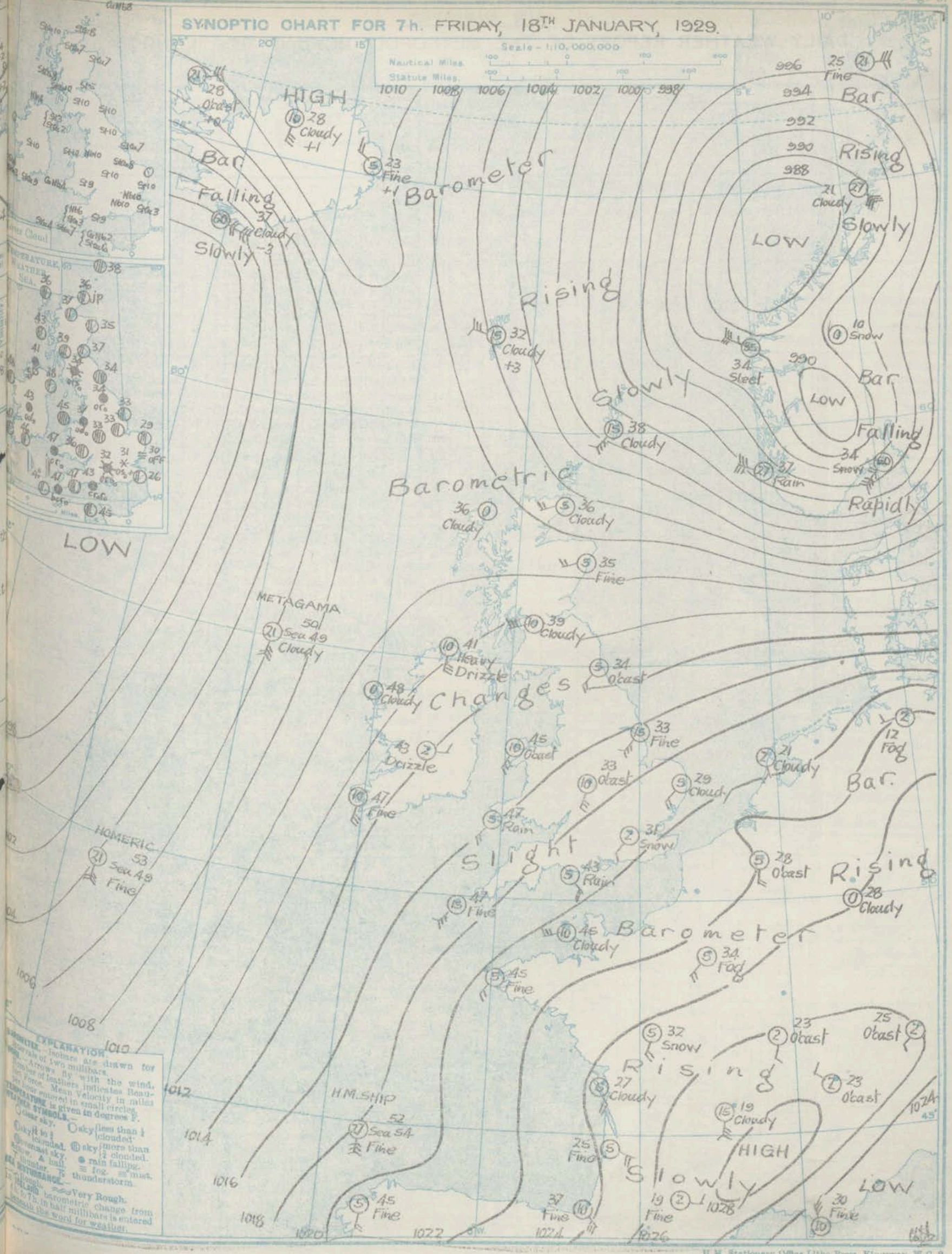
Observations from Cross Channel Steamers.

Position	Date and Time	Steamship	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	17th 10h	Scotia	E	2	c	38	46
3	18th 2h	Brighton	NNE	2	bct	38	44

General Inference.

With Great Britain lying on the northern side of an anticyclone over France and Switzerland and depressions being centred to the west of both Ireland and Southern Norway weather will be generally unsettled and milder than of late with rain or drizzle at times in most districts. Snow or sleet will occur at first in eastern and northern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 18th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind southwesterly, fresh locally; cloudy with occasional sleet or snow at first, then some rain or drizzle; bright periods later; local mist; temperature rising.	Mild and unsettled in the West; temperature rising in the East.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Southerly to southwesterly winds, light to fresh; cloudy with some rain or drizzle; brighter intervals later; local mist; rather mild.	
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 1 - 4.	
13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland	Winds variable to between south and west, light, freshening; bright periods at first then cloudy with snow or sleet followed by rain or drizzle; milder.	
16. Orkneys and Shetlands	Westerly winds, moderate to fresh; variable skies; occasional rain or sleet; temperature rather low to moderate.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 8.	



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION Friday 18th January 1929. No. 18

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

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10
Lerwick	84	1001·5	-2	SW	4	c/T	42	75	7	1500	StCu	5	ASt	9
Stornoway	30	1008·9	-2	–	0	b–	*	*	8	*	*	*	*	2
Wick	81	1007·1	-1	WSW	2	bc	29	85	8	2500	StCu	4	-	4
Tiree	32	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1011·3	0	SSE	2	b	37	97	8	5700	StCu	1	–	1
Renfrew	38	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	1012·1	0	W	2	oτsτs	36	97	7	800	Nb	10	–	10
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	87	1014·0	-1	SW	2	bc/f	30	92	6	800	St	5	ACu	7
Blacksod Point ...	18	1010·1	0	S	3	c	49	92	6	*	–	0	ASt	10
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	36	1013·7	-1	S	4	cR–	41	97	5	450	Nb	9	ASt	10
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1016·2	0	WSW	3	~~[illegible]~~ mmbc	31	92	4	800	St	7	–	7
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1017·6	+1	SW'S	3	fbc+	31	85	3	–	–	0	CiSt	6
Gorleston	14	1018·8	+1	W	3	b	27	87	5	–	–	0	–	0
Valentia (Cahirciveen)	30	1014·2	0	SW	1	c/pτ0	49	97	9	–	CuNb	8	–	8
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1015·1	0	SW	2	cτ0	45	97	6	1500	StCu	10	–	10
Ross-on-Wye	225	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	273	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	30	*	*	*	*	*	*	*
Croydon	244	1019·2	+2	–	0	bc–	28	97	5	800	St	7	–	7
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1019·1	+2	NE	2	bc	28	92	5	–	-	0	Ci	3
Scilly (St. Mary's) ...	163	1016·2	-1	SW'W	4	c	47	92	8	4000	StCu	8	–	8
Falmouth (Pendennis)	200	1017·1	+1	–	0	cτ0	43	92	7	4000	StCu	10	–	10
Plymouth (Cattewater)	83	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1018·5	+2	SW	2	bc–	39	85	6	2500	St	7	–	7
Southampton (Calshot)	10	1020·0	+2	WNW	1	o	32	92	5	800	St	10	–	10
Dungeness	20	1018·8	+2	N	1	bc–	28	92	8	5700	StCu	4	–	4
Guernsey (Fort George) ℙ	295	1019·8	+3	–	0	c	40	97	9	4000	StCu	8	–	8

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1001·1	+1	SW	4	cJp	38	85	7	1500	CuNb	8	ASt	10	*
Stornoway	1008·1	0	–	0	c+	36	92	6	4000	StCu	10	–	10	0
Wick	1007·1	0	WSW	2	~~[illegible]~~	36	92	8	1500	StCu	8	–	8	0
Tiree	1010·0	0	SW	4	c	43	97	8	1500	StCu	8	–	8	1
Nairn	1008·9	*	W	2	bc+	37	85	7	2500	StCu	7	–	7	*
Aberdeen	1009·2	-1	WSW	2	bc+	35	86	6	4000	StCu	7	–	7	0
Malin Head	1011·5	0	S	3	cD	41	97	5	4000	Nb	4	ASt	9	0
Renfrew	1012·6	0	WSW	3	c	39	97	7	2500	StCu	10	–	10	*
Edinburgh (Inchkeith)	1011·6	0	SW	3	bc	37	97	7	1500	St	5	–	5	1
Leuchars	1011·0	0	W	3	c+	35	97	6	4000	StCu	9	–	9	*
Eskdalemuir	1013·3	0	SSW	2	oτs	34	97	6	800	St	10	–	10	*
Tynemouth	1013·2	-1	SW	2	o	34	85	6	1500	St	10	–	10	2
Blacksod Point	1011·2	+1	–	0	c	48	75	6	*	–	0	ASt	10	2
Donaghadee	1013·7	+1	SW	2	bc	38	97	7	1500	St	5	–	5	2
Birr Castle	1014·0	*	E	1	od0	43	97	5	800	St	10	–	10	*
Holyhead	1014·1	+1	SW'S	3	o/d	45	97	5	450	St	10	–	10	0
Liverpool (Bidston)	1015·2	0	SW'S	3	od0	37	97	6	2500	Nb	10	–	10	*
Chester (Sealand)	1015·5	0	SE'S	3	cτ0τ0	35	92	5	2500	St	10	–	10	*
Harrogate	1015·1	0	–	0	oτ0	34	97	6	2500	St	10	–	10	*
Spurn Head	1016·2	0	SW	4	bc	33	92	5	4000	StCu	7	–	7	[illegible]
Birmingham (Edgbaston)	1017·9	0	SSW	3	o	33	97	6	1500	St	10	–	10	*
Cranwell	1017·5	0	SW	4	c+	33	97	6	5700	StCu	8	–	8	
Gorleston	1019·2	0	SW	2	c–	29	92	6	–	–	0	~~ASt~~ Ci	9	0
Valentia (Cahirciveen)	1013·5	+1	S'W	3	bc	47	92	8	2500	StCu	7	–	7	5
Roches Point	1015·6	+1	SW	1	c	46	97	8	1500	StCu	9	–	9	0
Pembroke (St. Ann's H.)	1015·9	+1	SW	2	bcτ0	47	97	8	2500	CuNb	4	ACu	6	1
Ross-on-Wye	1017·8	0	SW	2	c	36	92	6	2500	St	9	–	9	*
Leafield	1018·5	0	S	3	c+	31	97	6	–	–	0	ASt	9	*
Winchester (Worthy Dn.)	1020·0	+1	SE'S	2	ffo	31	97	3	800	St	10	–	10	*
S. Farnborough	1019·6	+1	SSW	2	oτs0	32	97	6	800	Nb	10	–	10	*
London (Kew Obsy.)	1019·9	+1	SW	1	os0+	31	97	3	800	Nb	10	–	10	*
Croydon	1019·8	+1	S'W	4	os0s0	32	92	5	800	Nb	10	–	10	*
Shoeburyness	1019·8	0	SW	2	mmc	31	97	4	1500	St	9	–	9	*
Clacton-on-Sea	1019·7	+1	W	1	FFo	30	97	0	450	St	10	–	10	1
Felixstowe	1019·8	+3	SW	3	FFo	30	97	0	<150	St	10	–	10	0
Lympne	1020·3	+2	S	2	c+	31	97	5	–	–	0	ACu	9	*
Scilly (St. Mary's)	1017·2	+1	SW	4	bc	47	97	8	4000	StCu	4	–	4	1
Falmouth (Pendennis)	1018·0	0	SW	2	bcτ0	47	85	7	4000	StCu	7	–	7	0
Plymouth (Cattewater)	1018·2	0	SW	3	c–	47	97	7	2500	Nb	9	–	9	1
Portland Bill	1019·0	+1	SE	2	cτ0τ0	43	75	8	1500	St	9	ASt	10	2
Southampton (Calshot)	1020·4	+1	SE	3	c	35	92	6	800	Nb	9	ASt	10	0
Dungeness	1020·3	+3	NW	1	bc/m	26	97	6	2500	StCu	3	ACu	6	2
Guernsey (Fort George)	1020·5	0	WSW	3	c	45	92	8	2500	StCu	8	–	8	3

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

Stations (1)	Weather Fore-noon (2)	Weather After-noon (3)	Temperature Min. ‡ 9h.-21h. to 9h. 17th (4) °F.	Temperature Max. 9h.-17h. 17th (5) °F.	Rainfall † Night 17h.-9h. 16th-17th (6) mm.	Rainfall Day 9h.-17h. 17th (7) mm.	Sunshine Sunrise to Sunset 17th (8) hr.
Berwick-on-Tweed	c	c	27	29	–	–	0·0
Douglas (I. o. M.) ...	xc	ors/s	30	38	–	/	0·1
Llandudno ...	bcc	co	32	39	–	–	1·0
Colwyn Bay ...	bbc	co	32	39	0·5	–	1·0
Rhyl	bc	c	28	38	–	–	0·9
Wallasey	bcsbc	bcco	30	38	–	–	1·1
Southport	oco	o	32	38	–	–	0·0
Blackpool	oc	co	31	40	–	–	0·1
Ilkley	xc	mo	20	35	–	–	0·0
Cleethorpes	foc	co	26	34	–	–	0·0
Skegness	bxcbc	bcbf	23	32	–	–	0·2
Aberystwyth ...	xbc	c	28	39	–	–	0·1
Bath	s0c	cbcm	22	37	–	0·3	0·6
Cheltenham‡ ...	cm0bc	bcm0	24	38	–	–	1·1
Leamington Spa ...	bccb	cb	25	38	–	–	1·3
Lowestoft	c	c	27	33	Trace	–	0·0
Harwich & Dovercourt	bcm	oc	26	34	–	–	0·0
Malden	c	com	27	36	–	–	0·0
Southend	of	of	25	34	–	–	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xoc	cbc	28	43	0·3	–	1·2
Penzance	cbc	cb	29	47	–	–	3·3
Paignton	ofxurp	cbcm	23	44	–	0·3	1·5
Torquay	p0ofx	ofr0bbcf	28	45	Trace	0·2	1·6
Jersey	c	cr	29	42	–	Trace	0·0
Weymouth	s/s0c	cf	24	39	–	2	0·1
Bournemouth ...	o	s/o	26	35	–	/	0·0
Ventnor ...	xbcrs	rsoc	28	37	–	/	0·7
Portsmouth (S'thsea)	co	osf	27	35	–	/	0·0
Bognor	oss	so	25	34	–	/	0·2
Littlehampton ...	co	oscm	24	33	–	/	0·1
Worthing	c	osd	23	34	0·5	0·5	0·1
Brighton	cosco	cod	27	36	–	/	0·0
Eastbourne‡	co	os0s0o	28	37	–	0·1	0·2
Hastings‖	coc	os0	25	35	–	Trace	0·1
Folkestone	cmom	om	26	35	–	–	0·0
Dover	mbcc	mcoc	28	36	–	–	0·4
Tunbridge Wells ...	o	o	25	35	–	–	0·0
Ramsgate	bcc	c	28	35	–	–	0·5
Margate	bc	bcm0	29	35	–	–	1·3
Deal	bcc	co	28	35	–	–	0·2

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24530 Saturday 19th January 1929. Page 1.

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

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	State of ground	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	Sea 0-9
Lerwick	1005.4	+4	W'N	4	c/p	37	75	8	1500	Cu.Nb.	5	A.St.	9	•	1008.3	+3	W	1	c	37	85	8	1500	St.Cu.	5	A.St.	9	•
Stornoway	1009.3	+2	WSW	1	c+	45	92	7	4000	St.Cu.	9	-	9	•	1010.8	+1	-	0	c	42	97	6	4000	St.Cu.	9	-	9	0
Wick	1009.7	+2	WSW	2	c	39	75	8	1500	St.Cu.	6	A.St.	8	•	1011.3	+2	WSW	1	c/pr₀	36	92	8	1500	Nb.	6	Ci.St.	8	0
Tiree	1012.0	+1	SW	4	cd₀	46	97	7	1500	Nb.	9	-	9	1	1012.7	+1	SW	4	cr₀	46	97	7	1500	Nb	10	-	10	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.9	•	W	2	c+	41	85	8	2500	St.Cu.	8	-	8	•
Aberdeen	1010.6	+1	WSW	1	c	41	75	6	4000	St.Cu.	9	-	9	7	1012.4	+1	-	0	fbc	35	97	3	4000	St.Cu.	1	A.Cu.	5	0
Malin Head	1013.7	+2	S	2	c	45	92	8	5700	St.Cu.	9	-	9	•	1013.6	+1	S	4	bc-	45	97	8	5700	St.Cu.	6	A.Cu.	7	1
Renfrew	1014.2	+2	NW	2	cdd	41	97	4	450	St.	10	-	10	1	1015.2	+2	WSW	3	c	43	97	6	4000	St.Cu.	9	-	9	•
Edinburgh (Inchkeith)	1012.7	0	W	3	mmbc	40	97	4	800	St.	3	A.Cu.	4	•	1013.9	+2	W	3	mmbc	40	97	4	450	St.	5	-	5	1
Leuchars	1012.5	+1	SW	3	b+	42	85	7	5700	St.Cu.	1	Ci.	2	3	1014.3	+2	SW	3	c	39	92	6	2500	St.	3	A.St.	9	•
Eskdalemuir	1015.9	+2	SSW	2	c	36	97	5	<150	St.	9	-	9	7	1016.4	+1	SW	2	ffo	37	97	3	<150	St.	10	-	10	•
Tynemouth	1013.5	+1	SW	1	ffbc	38	92	3	1500	Cu.Nb.	7	-	7	•	1016.0	+2	W	1	9/f	41	92	6	1500	St.	10	-	10	1
Blacksod Point	1011.9	0	S	4	c	49	92	8	+	Cu.Nb.	8	-	8	•	1011.5	0	SW	5	c	50	97	7	+	-	0	A.St.	10	6
Donaghadee	1016.4	+3	SW	1	bc/d	43	97	6	1500	St.Cu.	7	-	7	•	1016.6	0	SSW	2	bc-	43	97	7	4000	St.Cu.	5	-	5	2
Birr Castle	1016.2	•	S	2	c	47	92	6	1500	Cu.	9	-	9	•	1016.0	•	S	2	c-	47	92	7	800	St.	7	A.Cu.	8	•
Holyhead	1017.2	+3	SW	3	cd₀	45	97	6	450	St.Cu.	9	-	9	2	1017.9	+1	SSW	1	c	47	97	7	800	St.	9	-	9	0
Liverpool (Bidston)	1017.5	+3	WNW	2	<DD	44	97	4	2500	Nb.	10	-	10	•	1018.7	+1	SW W	2	c-	44	97	6	4000	Nb.	9	-	9	4
Chester (Sealand)	1017.1	+2	W	3	c	47	85	6	1500	St.	9	-	9	2	1018.8	+1	S	1	c	43	92	5	2500	St.	9	-	9	•
Harrogate	1016.1	+1	SSW	2	ffo	38	92	3	<150	St.	10	-	10	•	1017.7	+1	WSW	3	c	41	92	7	2500	St.	9	-	9	•
Spurn Head	1016.5	0	WSW	3	c	36	97	6	2500	St.	7	A.St.	10	•	1017.7	0	W'S	2	0	38	97	5	1500	St.	10	-	10	3
Birmingham (Edgbaston)	1019.0	+2	WSW	3	c	38	97	5	1500	Nb.	8	-	8	2	1021.0	+2	SW	2	bc-	41	92	5	4000	St.Cu.	7	-	7	•
Cranwell	1018.4	0	WSW	4	cd₀	37	97	5	2500	St.	9	-	9	7	1019.6	+2	WSW	3	c	40	92	5	2500	St.Cu.	9	-	9	•
Gorleston	1019.1	0	SW W	3	0	34	97	5	1500	St.	10	-	10	•	1020.4	+1	W'S	2	od₀d₀	36	97	5	800	Nb.	10	-	10	0
Valentia (Cahirciveen)	1014.3	-1	S	4	c	50	92	8	800	St.	10	-	10	2	1014.1	+1	S	4	cd₀	49	97	7	1500	St.	10	-	10	4
Roches Point	1017.5	+1	W	2	c	48	97	8	2500	St.Cu.	8	-	8	•	1017.7	+1	SW	2	c	47	97	8	2500	St.Cu.	9	-	9	0
Pembroke (St. Ann's H.)	1018.8	+2	SW	2	or₀	48	97	6	800	Nb	10	-	10	•	1018.9	+1	SSW	3	c	48	92	7	1500	St.Cu.	8	Ci.St.	10	1
Ross-on-Wye	1019.2	+1	SW	3	b	46	85	6	4000	Cu.	1	-	1	2	1020.7	+2	SSW	2	c	43	92	5	4000	St.Cu.	9	-	9	•
Leafield	1020.0	+2	SW	2	mmc	35	97	4	450	St.	9	-	9	3	1021.8	+3	SW	3	0	39	97	5	800	St.	10	-	10	•
Winchester (Worthy Dn.)	1020.6	0	SSE	2	0	39	92	5	800	St.	10	-	10	3	1022.7	+3	SW	2	bc-	42	97	6	1500	St.Cu.	7	-	7	•
S. Farnborough	1020.3	-1	SSW	3	bc-	42	85	6	1500	St.	7	-	7	1	1022.6	+4	WSW	2	od₀	41	97	6	1500	St.	10	-	10	•
London (Kew Obsy.)	1020.9	-1	WSW	3	c	40	85	6	2500	St.	9	-	9	3	1022.5	+2	SSW	2	mmo	41	97	4	800	St.	10	-	10	•
Croydon	1020.4	0	SSW	4	bc-	41	85	6	4000	St.Cu.	7	-	7	2	1022.3	+3	SW	3	c	43	92	5	800	St.	9	-	9	•
Shoeburyness	1020.6	-1	SW	3	bc/s	38	92	6	4000	St.Cu.	4	A.Cu.	7	•	1021.9	+3	SW	3	bc-	39	97	6	-	-	0	A.Cu.	5	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.9	+2	SW	2	0	39	92	6	4000	St.	10	-	10	2
Felixstowe	1020.4	-1	SSW	3	od₀	35	92	6	800	St.	10	-	10	7	1021.6	+2	WSW	3	mmc	40	92	4	800	St.	9	-	9	1
Lympne	1021.4	0	S'W	3	c/d	37	92	6	2500	St.Cu.	9	A.St.	10	7	1022.8	+2	W'S	3	mmo	40	97	4	450	St.	10	-	10	•
Scilly (St. Mary's)	1019.7	+2	SSW	4	bc	52	85	8	4000	Cu.	3	-	3	•	1020.4	0	S'W	4	bc	47	92	8	4000	Cu.	3	-	3	2
Falmouth (Pendennis)	1020.5	+1	SW'S	4	bc	50	75	8	4000	Cu.	2	A.Cu.	5	•	1021.6	+1	SSW	4	bc-	?	85	8	4000	St.Cu.	2	Ci.	3	1
Plymouth (Cattewater)	1020.6	+1	SW	5	c	49	92	7	4000	Nb.	8	A.Cu.	9	1	1022.3	+2	SW	4	c	47	92	7	4000	Nb.	9	-	9	1
Portland Bill	1020.3	+1	SW	3	c-	47	85	8	2500	St.Cu.	7	A.Cu.	8	•	1022.3	+3	SW	4	b-	47	85	8	1500	St.Cu.	2	-	2	2
Southampton (Calshot)	1021.0	-1	SW	3	c/d	44	97	6	1500	St.Cu.	9	-	9	2	1023.3	+3	SW W	3	b-	42	92	6	5700	St.Cu.	2	-	2	0
Dungeness	1021.3	0	SW	2	c/r-	41	85	8	2500	St.Cu.	9	-	9	•	1022.7	+3	WSW	1	c	41	97	6	800	St.	10	-	10	1
Guernsey (Fort George)	1022.7	0	WSW	4	b-	48	75	8	2500	St.Cu.	2	-	2	•	1024.8	+4	SW W	2	bc+	45	75	8	4000	St.Cu.	2	A.Cu.	4	0

2500

LONDON OBSERVATIONS.

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

Station	Heights above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 Hours ended 9h)	Temp. Max. Day °F.	Temp. Min. Nght. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	ofs₀d₀	amom	bcmcbc	43	33	23	0.4	0.1	0.2	•	•	4
Croydon	244	d₀f₀c	bcc	cmbrm₀	44	36	30	0.2	-	1.6	•	•	6
Greenwich (Royal Obsy.)	149	c/₀c	c	cbcrbcr	44	35	26	Tr.	0.3	0.4	82	86	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	44	34	25	-	-	0.0	97	99	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.1	•	•	•
Camden Square	119	oc	c	•	43	34	-	-	Tr.	•	•	98	•
Kensington Palace	80	askom	co	•	43	36	27	-	0.2	•	(At 18h) 91	91	•
Hampstead Observatory	450	•	•	•	41	34	27	0.3	0.3	0.3	•	96	•

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
1.6	20h. 18th	0.3	5h. 19th
Kew Observatory			
Max.	Time.	Min.	Time.
0.5	17h. 18th	0.1	24h. 18th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 18th 17 h. 30 m. to 19th 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.15	9.30	72
δ Ursae Minoris	13.15	2.59	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 (Hour frost in 1h. and 7h. reports).
7 = Snow (thin layer, often not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer).
9 = Glazed roads (ice on roads from frozen rain or melted snow).

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET.
19th & 20th January 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.56	12.4	16.12
	7.55	12.4	16.14
Greenwich	7.58	12.11	16.24
	7.57	12.11	16.25
Wick	8.47	12.23	16.0
	8.45	12.23	16.2
Valentia	8.41	12.52	17.3
	8.40	12.52	17.5

BEAUFORT NOTATION OF WEATHER.

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

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

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

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

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

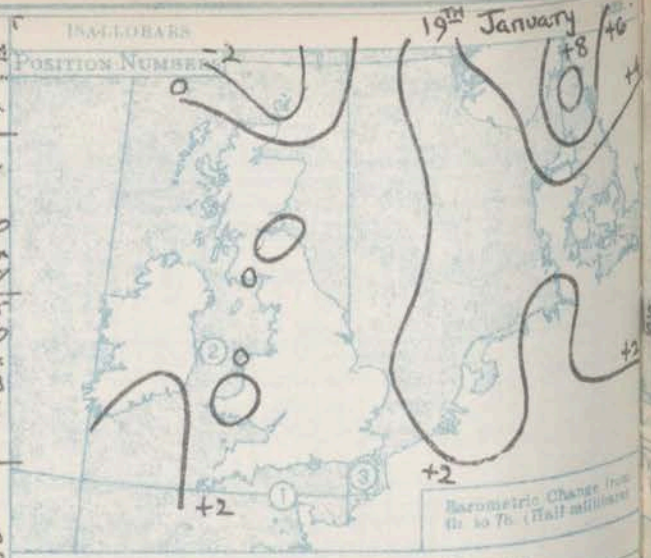
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 18th	Weather. 18h.-18h. 18th	Weather. 18h. 18th to 1h. 19th	Weather. 1h.-7h. 19th	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 18th Hours.
Lerwick	cpr₀	c	c	cocr₀	39	36	•	0·3	<8·00	1	2·30	
Stornoway	cobcxc	c	o r o	r-d	45	40	•	–	–	1	24·00	0·7
Wick	apr₀c	cpr₀	od₀c	c	39	35	•	1	9·00	0·4	21·00	•
Tiree	pdc	od₀	pd0	0	47	44	30	0·2	<8·00	0·3	21·00	0·0
Nairn	cd₀bc	bc	c	c	42	39	•	Tr.	11·00	–	–	2·4
Aberdeen	bcrp₀cx₀	cbcf	bafcm	cm₀x₀	42	34	30	Tr.	9·00	–	–	0·7
Malin Head	cDc	cbca	bccabca	bc	47	45	•	Tr.	<8·00	–	–	0·5
Renfrew	cod₀DD	odcm₀	cm₀	ocid₀	44	43	41	0·2	9·00	Tr.	3·30	0·0
Edinburgh (Inchkeith)	bcmm	bcmm	bccmmc	acvi₀bc	41	39	37	Tr.	–	Tr.	5·30	1·4
Leuchars	cxbcbm₀b	bbc₀cm₀	cm₀	c₀cir₀	43	37	34	–	–	Tr.	5·30	5·3
Eskdalemuir	afcodam₀	cm₀ofc	ofaid₀	idr₀r₀f	37	36	35	0·4	<8·00	2	21·00	0·1
Tynemouth	obcff	bcff0	0	obc	41	39	31	–	–	–	–	•
Blacksod Point ...	p₀c	d₀0	d₀0	oc	50	48	•	0·1	•	0·3	•	•
Donaghadee	wdm₀	bam₀c	cbam₀	mmid₀	45	39	•	0·3	<8·00	0·3	2·30	•
Birr Castle	oid₀c	c	c	cid₀	48	45	39	0·2	<8·00	Tr.	6·30	2·3
Holyhead	id₀c	d₀cm₀	cbam₀	cm₀₀d₀	47	44	43	0·6	<8·00	0·2	5·30	0·0
Liverpool (Bidston) ...	d₀Dm	ordm₀	m₀cr₀	aop₀c	44	40	33	1	<8·00	0·1	21·00	0·0
Chester (Sealand) ...	r₀d₀m₀c	cm₀	bc	bc	49	37	31	0·3	9·00	–	–	0·7
Harrogate	cff	cfd₀c	cbc	bcc	[illegible]	38	35	Tr.	<8·00	–	–	0·0
Spurn Head	c	cmoz	ozo	cbcx	39	37	•	Tr.	<8·00	–	–	0·0
Birmingham (Edgbaston)	cir₀r	cbc	bcc	c	41	36	33	0·1	<8·00	–	–	0·1
Cranwell	cm₀	cm₀d₀	cm₀cm	cmbm	41	35	32	Tr.	12·30	–	–	0·5
Gorleston	cx3₀r0	am₀dd	od₀cm₀	ocm₀	37	35	32	0·3	9·00	0·3	21·00	0·0
Valentia (Cahirciveen)	cir₀d	cid	cidcir	crc	50	43	41	1	9·00	3	21·00	0·1
Roches Point	cir₀c	c	c	cir₀c	48	46	•	Tr.	11·00	0·3	4·30	•
Pembroke (St. Ann's H.)	bcr0	cir	bcbbcc	cr₀m₀	49	45	•	1	<8·00	Tr.	1·30	1·5
Ross-on-Wye	cb	bcm	cr₀cb	bcc0	46	35	24	–	–	Tr.	21·00	2·3
Leafield	0	cbc	ofcbc	bc	41	34	30	Tr.	–	0·1	–	0·6
Winchester (Worthy Dn.)	ofcm₀r₀	am₀r₀c	cm₀bm₀	bm₀x	44	30	22	0·1	<8·00	–	–	0·2
S. Farnborough ...	a₀s₀f₀r₀m₀	bc₀am₀	cm₀	cbxm₀	44	35	24	0·1	<8·00	0·1	–	0·6
London (Kew Obsy.) ...	ofs₀d₀	cm₀am	bam₀	cbcm₀x	43	33	23	0·4	<8·00	0·1	–	0·2
Croydon	as₀r₀c	bcc	cm₀b	bxm₀	44	36	30	0·2	<8·00	–	–	1·6
Shoeburyness	cmisbam₀	c	bcx	bcx	41	33	30	1	9·00	0·1	–	0·8
Clacton-on-Sea ...	fxpog	ogom	amogf	ogfcbc	39	33	27	0·4	11·00	–	–	0·0
Felixstowe	ofxr3₀	cmr₀	ambc	bmx	40	33	30	1	9·00	–	–	0·[illegible]
Lympne	cas₀d₀	cm₀om	ambfm	bmb	40	34	31	0·2	9·00	0·1	21·00	0·1
Scilly (St. Mary's) ...	bcp₀	bc	bcc	cbc	53	47	•	Tr.	<8·00	–	–	4·6
Falmouth (Pendennis)	bcmr	bc	bcc	c	51	47	•	Tr.	<8·00	–	–	2·9
Plymouth (Cattewater)	cor₀Rm₀	cbc	cb	bcc0	51	46	42	3	<8·00	–	–	1·4
Portland Bill	or₀c	cbc	bbc	bcb	48	44	•	0·2	<8·00	–	–	•
Southampton (Calshot)	cd₀bcid₀	acidcbcfc	bcbm1	bmxbcx	45	37	28	0·1	<8·00	0·1	–	0·0
Dungeness	bcr₀rc	cd₀r₀c	cmmbcb	bbcb	42	37	•	0·4	9·00	0·2	21·00	•
Guernsey	cprbc	bv	bv	bm1	48	41	•	–	–	0·1	–	5·6



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Barometer.
2	10h. 18th	'SCOTIA'	SW'S	3	cx	48	54	9
3	2h. 19th	ARANDOSA	W	4	bc	45	45	9

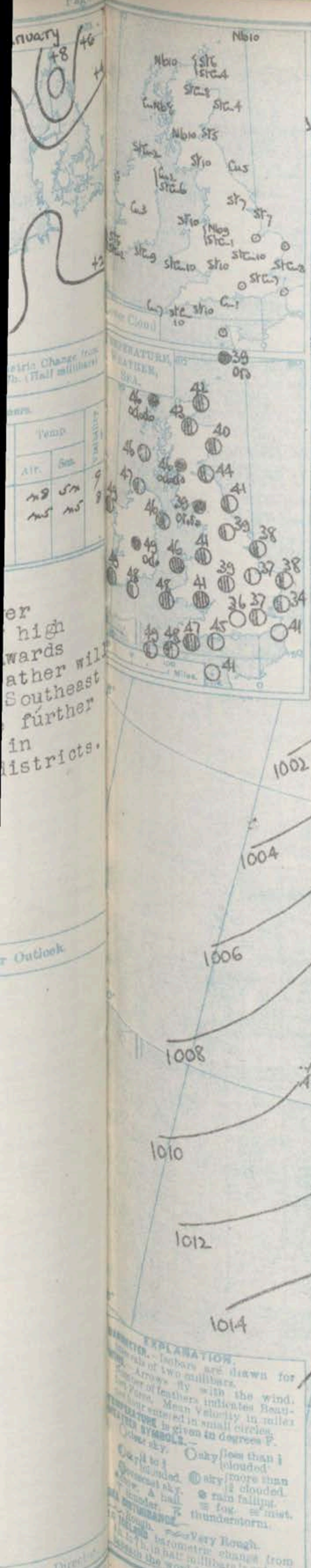
GENERAL INFERENCE.

From an anticyclone over Switzerland a ridge of high pressure extends northwards over the North Sea. Weather will be mainly fair in the Southeast but there will be some further local rain or drizzle in Western and northern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 19th January, 1929.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light to moderate southwesterly winds; mainly fair; local mist or fog, night and morning; moderate day temperature, ground frost locally at night.	Similar
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Southerly to southwesterly winds, light to moderate, stronger at times locally; bright and cloudy periods; occasional local slight rain or drizzle; local mist; rather mild.	
9. N. Midlands 10. N.E. England	As 1 - 4.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 5 - 8.	
13. A. W. Scotland B. " 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		

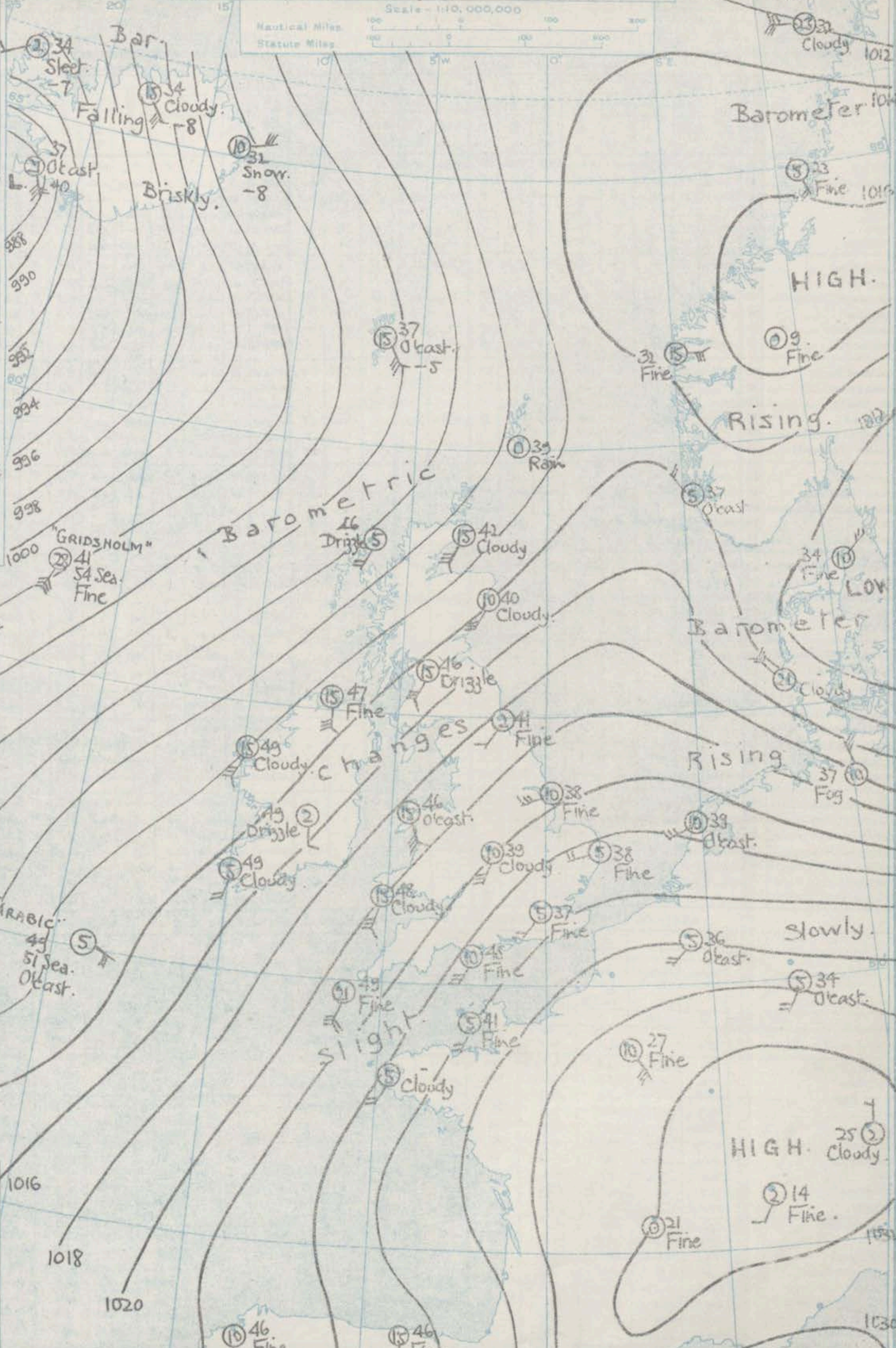
† For code see page 1

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



er
high
wards
ather will
Southeast
further
in
districts.

SYNOPTIC CHART FOR 7h. SATURDAY, 19TH JANUARY, 1929.



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AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION... Saturday 19th January 1929. No. 19

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 19th: Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 19th: Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Rain
Lerwick	54	1011·0	+2	W'S	1	c	37	85	8	1500	St.Cu.	5	Ai.St.	9	1010·1	-1	-	0	0/c	39	92	7	1500	Nb.	10	-	10	•
Stornoway	30	1010·5	-1	SW	4	c/c	•	•	6	•	•	•	•	10	1009·6	0	SW	2	0d/d	46	97	6	2500	Nb.	10	-	10	1
Wick	81	1012·1	0	SW	3	c	40	92	8	1500	St.Cu.	6	Ai.St.	10	1010·9	-2	SW	4	c	42	97	8	1500	St.	10		8	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1012·4	0	SW	5	c	46	97	7	1500	Cu.Nb.	8	-	8	•
Nairn	62	•	•	•	•	•	•	•	•	•	•	•	•	•	1012·2	•	-	0	c	43	92	8	2500	St.Cu.	8	-	8	0
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1011·3	0	SSW	3	c	40	92	5	4000	St.Cu.	4	Ai.St.	8	1.2
Malin Head	51	1013·3	0	S	4	bc	47	92	8	5700	St.Cu.	5	-	5	1013·9	+1	S	4	bc	47	85	8	4000	St.Cu.	2	Ai.Cu.	3	
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·7	0	SW	4	0d/d	46	92	7	2500	Nb.	10	-	10	•
Edinburgh (Inchkeith)	160	1014·8	+1	W	2	0	43	92	8	1500	St.	10	-	10	1015·5	0	WSW	3	bc-	44	92	8	1500	St.	5		5	1
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·5	0	WSW	3	c/c	43	92	7	2500	Nb.	7	Ai.St.	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1013·1	-1	SSW	4	0/c	39	97	3	1150	St.	10	-	10	•
Tynemouth	87	1012·1	+1	SW	1	0	41	92	6	1500	St.	10	-	10	1012·2	+1	SW	1	bc	41	92	7	1500	Cu.	5	-	5	1
Blacksod Point	18	1011·4	0	SW	6	c	50	92	6	•	-	0	Ai.St.	10	1012·0	0	SW	4	c	~~49~~ 50	92	6	•	Cu.Nb.	10	-	10	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1014·0	0	SW	2	c/d	46	92	6	4000	St.Cu.	8	-	8	2
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·8	•	S	1	cd	49	97	6	1500	Cu.	3	Ai.St.	9	•
Holyhead	26	1019·6	0	SSW	4	bar	46	97	6	1500	St.	5	Ai.St.	7	1019·2	0	S'E	4	d/d	46	97	5	4050	St.	10	-	10	1
Liverpool (Bidston)	188	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·9	0	S	3	c	41	85	7	2500	Nb.	10	-	9	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·0	+1	SSE	3	c+	40	92	7	1500	St.	9	-	7	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·9	0	SW	1	bar	39	92	7	2500	St.	7	-	7	3
Spurn Head	29	1020·9	+1	SW	3	0	40	92	5	1500	St.	10	-	10	1021·7	0	WSW	3	bc	38	97	5	1500	St.	7	-	10	•
Birmingham (Edgbaston)	536	•	•	•	•	•	•	•	•	•	•	•	•	•	1024·0	0	SSW	3	c	39	92	6	2500	St.Cu.	10	-	1	
Cranwell	238	1020·0	+2	SW'W	3	nmc	41	97	4	2500	St.	8	-	8	1023·1	0	SW	3	b+	37	97	6	-	-	0	C.	4	0
Gorleston	14	1022·9	+3	W'S	2	0	37	97	5	1500	St.	10	-	10	1024·5	+2	WSW	2	bc-	38	97	6	-	-	0	Ci.Cu.		6
Valentia (Cahirciveen) P	30	1014·7	0	S	3	0r	51	97	8	*	St.	10	-	10	1015·0	+1	S'W	2	c	49	85	8	1500	St.	8	-	8	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·0	+2	SW	3	c	48	97	8	2500	St.Cu.	9	-	9	1
Pembroke (St. Ann's H.)	150	1020·9	+1	SSW	4	c+	47	85	7	2500	St.Cu.	10	-	10	1020·2	-1	SSW	4	c	48	97	7	2500	St.Cu.	10	-	10	•
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·2	0	SW'S	2	0	41	92	6	1500	St.	10	-	9	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	1024·4	0	S'W	3	c+	36	92	~~8~~ 7	4000	St.Cu.	9	-	9	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1026·0	0	SSE	3	b	35	97	5	-	-	0	-	0	•
S. Farnborough	287	•	•	•	•	•	•	•	•	•	•	•	•	•	1025·5	0	SSW	2	b	36	92	6	-	-	0	-	0	•
London (Kew Obsy.)	18	•	•	•	•	•	39	•	•	•	•	•	•	•	1026·0	0	SW'W	2	bc-	37	97	5	2500	St.Cu.	7	-	7	•
Croydon	244	1025·1	+3	SW'W	4	b-	41	85	7	-	-	0	Ci.	1	1025·9	0	SSW	4	b+	36	97	6	2500	St.Cu.	1	Ci.	2	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1026·4	+1	WSW	2	b-	36	92	6	-	-	0	Ai.St.	1	1
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1026·3	+1	WSW	2	bc	34	97	7	4000	St.Cu.	3	-	3	1
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1026·2	+2	SW	2	mnb	35	92	4	-	-	0	C.	1	1
Lympne	350	1025·3	+3	WSW	3	nmb	38	97	4	-	-	0	-	0	1027·0	+1	WSW	3	b	34	97	7	-	-	0	-	0	•
Scilly (St. Mary's)	163	1019·8	0	SW	5	c+	50	97	8	4000	St.Cu.	10	-	10	1020·9	+1	SSW	5	bc	49	97	7	4000	Cu.	7	-	7	4
Falmouth (Pendennis)	200	1022·1	+1	SW'S	4	c	48	92	8	4000	St.Cu.	10	-	10	1022·1	0	SW'S	3	c	48	92	7	4000	St.Cu.	10	-	10	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·5	0	SSW	4	0	47	97	7	1500	St.	10	-	1	1
Portland Bill	52	1024·0	+1	SW'S	4	bc-	45	75	8	2500	St.Cu.	3	•	3	1024·6	0	SSW	3	b	45	85	8	2500	Cu.	1	-	3	0
Southampton (Calshot)	10	1025·5	+2	SW	3	b	39	92	8	-	-	0	-	0	1026·3	+1	SSW	3	bar	39	92	7	4000	St.Cu.	2	Ai.Cu.	0	2
Dungeness	20	1024·3	+3	WSW	1	b-	40	97	7	-	-	0	Ci.Cu.	2	1026·7	+1	SW	1	b	41	92	8	-	-	0	-	0	
Guernsey (Fort George) P	295	1026·2	0	S	3	b-	41	85	8	-	-	0	-	0	1026·7	+1	SSW	2	b	41	85	8	-	-	0	-		

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 17th to 9h. 18th	Temperature. Max. 9h.-17h. 18th	Rainfall.† Night 17h.-9h. 17-18	Rainfall.† Day 9h.-17h. 18th	Sunshine. Sunrise to Sunset 18th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	bc	c	22	41	-	-	5·5
Douglas (I. o. M.)	c	idm	32	46	4	0·3	0·1
Llandudno	rc	oc	32	46	4	0·2	0·0
Colwyn Bay	cbbc	coc	33	49	3	-	0·7
Rhyl	cp	c	29	47	2	0·3	0·1
Wallasey	foir	circ	30	44	2	2	0·0
Southport	odo	odo	33	44	2	1	0·0
Blackpool	ofe	odc	33	43	2	0·3	0·0
Ilkley	xc	op	25	42	-	0·3	0·0
Cleethorpes	oz	o	21	38	-	-	0·0
Skegness	oxoc	coa	23	36	-	Trace	0·0
Aberystwyth	rscbc	c	31	47	1	-	3·7
Bath	mc	bobbc	27	48	1	-	1·7
Cheltenham‖	c	cbc	31	44	2	-	0·9
Leamington Spa	c	c	29	42	2	-	0·0
Lowestoft	cprc	cdc	24	37	-	0·5	0·0
Harwich & Dovercourt	ocf	ocdf	29	38	-	Trace	0·0
Maldon	mrsc	com	21	41	-	1	0·0
Southend	oms	om	28	41	-	1	0·8

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cap	bcb	35	50	1	0·2	2·2
Penzance	cbc	cb	39	52	4	-	2·7
Paignton	ofp	opbcc	33	52	1	Trace	4·9
Torquay	ofrp	ofmpbr	36	52	1	0·3	4·6
Jersey	c	b	38	47	1	-	4·8
Weymouth	rc	cb	32	50	1	-	1·1
Bournemouth	odcdo	odco	31	47	1	1	0·2
Ventnor	xbcro	robc	32	47	0·3	1	0·0
Portsmouth (S'thsea)	co	oc	29	46	1	-	0·4
Bognor	o	cbc	29	44	1	-	0·1
Littlehampton	cmc	cpcm	27	42	1	0·2	0·1
Worthing	oc	odc	27	44	1	Trace	0·0
Brighton	roco	odo	28	45	1	0·3	0·0
Eastbourne‖	orrcbc	coirc	28	45	1	1	0·9
Hastings‖	cocdc	opdm	30	43	0·3	1	0·0
Folkestone	cfodm	ov	25	42	-	0·5	0·0
Dover	cmoid	moidc	25	42	Trace	Trace	0·0
Tunbridge Wells	oso	o	25	43	0·3	Trace	0·0
Ramsgate	ors	bc	29	41	-	1	0·0
Margate	cmrs	c	28	42	-	1	0·0
Deal	oro	o	25	41	-	0·3	0·0

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

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24531 Sunday, 20th January 1929.

Observations at 13h. G.M.T. 19th

STATIONS. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1009.5	-1	SW	2	o|r	46	92	6	1500	Nb	10	-	10	•
Stornoway	1012.9	+3	SSW	1	o|r	46	92	7	2500	St	10	-	10	•
Wick	1012.6	+2	SW	2	c	43	97	8	1500	St Cu	6	Ci St	8	•
Tiree	1013.0	+1	SW'W	4	o+	47	97	7	1500	Nb	10	-	10	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1015.3	0	SW	3	bc	47	75	7	4000	St Cu	1	A Cu	7	6
Malin Head	1015.3	+1	SSW	4	c	50	92	8	5700	St Cu	7	Ci Cu	8	•
Renfrew	1016.7	0	SW	4	cd	48	97	6	800	St	10	-	10	1
Edinburgh (Inchkeith)	1016.5	0	SW	2	c	46	92	8	1500	St	9	-	9	•
Leuchars	1016.9	+1	SW	3	cd	45	97	5	450	St	10	-	10	2
Eskdalemuir	1019.2	-1	SSW	4	od+	42	97	5	4150	St	10	-	10	3
Tynemouth	1019.2	+1	SW	2	bc+	48	85	6	1500	Cu Nb	6	-	6	•
Blackwod Point	1014.7	+2	S	4	oD	49	97	7	*	Nb	10	-	10	•
Donaghadee	1017.8	+1	WSW	2	bc+	49	92	7	4000	Cu	5	A Cu	7	•
Birr Castle	1017.8	•	S	2	c	52	85	7	2500	St Cu	9	-	9	•
Holyhead	1020.2	+1	S'W	4	o	48	97	6	450	St	10	-	10	2
Liverpool (Bidston)	1021.8	0	SSW	3	c	48	85	7	2500	Nb	9	-	9	•
Chester (Sealand)	1021.7	-1	S'E	3	bc-	49	85	6	1500	St	6	-	6	1
Harrogate	1021.4	0	SSW	3	c	46	85	5	4000	St Cu	8	-	8	•
Spurn Head	1022.9	0	SW'S	3	c	42	92	6	4000	St Cu	10	-	10	•
Nottingham (Edgbaston)	1024.7	0	SSW	3	o	42	97	5	1500	St	10	-	10	2
Cardiff	1024.1	0	SW	4	c	43	92	6	4000	St Cu	9	-	9	1
Torquay	1025.6	+1	WSW	2	bc	43	92	6	-	-	0	A Cu	6	•
Valentia (Cahirciveen)	1016.4	-1	S'W	3	c	51	92	8	800	St	9	-	9	2
Roches Point	1019.2	+1	SW	2	c	48	92	8	2500	St Cu	9	-	9	•
Pembroke (St. Ann's H.)	1021.8	+1	S	3	c	48	92	6	1500	St Cu	10	-	10	•
Ross-on-Wye	1024.2	+1	SW	3	c	45	85	6	4000	St Cu	9	-	9	2
Leafield	1025.4	0	S'W	3	c-	42	85	7	1500	St Cu	8	-	8	2
Winchester (Worthy Dn)	1026.5	0	S'E	3	bc+	45	75	7	1500	Cu	5	-	5	2
S. Farnborough	1026.5	-1	S	3	b	46	65	6	-	-	0	-	0	1
London (Kew Obsy.)	1026.7	-1	SW'S	3	b	43	75	6	-	-	0	-	0	1
Croydon	1026.8	0	SSW	4	b	46	65	7	-	-	0	-	0	2
Shoeburyness	1027.0	+1	SW	3	b	46	75	6	-	-	0	-	0	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1026.6	-1	SSW	3	b	42	85	6	4000	St Cu	1	-	1	2
Lympne	1027.7	+1	SSW	4	b	44	85	7	-	-	0	-	0	2
Scilly (St. Mary's)	1022.0	0	S	4	bc	52	92	7	4000	Cu	3	-	3	•
Falmouth (Pendennis)	1023.1	0	SSW	4	bc-	48	92	8	4000	St Cu	6	-	6	•
Plymouth (Cattewater)	1024.7	0	S	4	c-	48	92	8	4000	St Cu	9	-	9	1
Portland Bill	1025.6	0	SSW	4	b	47	75	8	2500	Cu	1	-	1	•
Southampton (Calshot)	1026.3	-1	S'W	3	b	43	85	7	4000	Cu	1	-	1	2
Dungeness	1028.3	+2	SW	2	b+	44	85	8	-	-	0	Ci Cu	1	•
Guernsey (Fort George)	1026.6	-1	SSE	4	b	44	75	7	-	-	0	-	0	•

Observations at 18h. G.M.T. 19th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1012.5	+4	-	0	c-	44	92	7	1500	Cu Nb	5	A St	8	•
Stornoway	1014.9	+3	-	0	o	43	97	6	2500	St	10	-	10	1
Wick	1015.7	+3	W	1	c	42	92	8	1500	St	6	A St	10	0
Tiree	1015.8	+2	SW	4	od₀	47	97	7	800	Nb	10	-	10	1
Nairn	1015.3	•	-	0	bc	41	85	8	2500	Cu	3	A Cu	6	•
Aberdeen	1017.1	+3	SSW	3	bc	41	92	5	-	-	0	A Cu	4	0
Malin Head	1016.6	+2	S	4	c	48	92	7	5700	St Cu	8	Ci Cu	9	2
Renfrew	1018.6	+3	WNW	1	cd₀	47	97	6	800	St	10	-	10	•
Edinburgh (Inchkeith)	1018.0	+2	SW	2	bc	46	97	7	1500	St	5	-	5	0
Leuchars	1018.0	+2	WSW	2	mbc+	41	97	4	-	-	0	A Cu	3	•
Eskdalemuir	1021.0	+3	SW	4	o|r	43	97	4	4150	St	10	-	10	•
Tynemouth	1020.1	+2	SW	2	c	46	92	6	1500	Nb	8	-	8	1
Blackwod Point	1014.5	0	S	4	bc	49	85	7	*	Cu Nb	7	-	7	5
Donaghadee	1019.4	+2	W	2	bc-	46	92	7	4000	Cu	5	-	5	2
Birr Castle	1018.1	•	S	3	c|r₀	49	92	7	2500	St Cu	9	-	9	•
Holyhead	1021.3	+1	S'W	4	c	47	97	6	800	St	9	-	9	1
Liverpool (Bidston)	1023.1	+1	SSW	2	bc-	45	85	7	4000	St	3	-	3	•
Chester (Sealand)	1022.6	+2	S'E	4	bc-	45	85	6	2500	St Cu	4	-	4	•
Harrogate	1022.8	+1	SSW	3	c	44	92	5	4000	Nb	4	A St	9	•
Spurn Head	1024.1	+1	SW	2	c	42	92	6	5700	St Cu	5	A Cu	10	3
Nottingham (Edgbaston)	1025.4	+1	SSW	3	c	42	92	5	2500	St Cu	8	-	8	•
Cardiff	1024.9	+1	SW'W	4	c	43	92	6	4000	St Cu	9	-	9	•
Torquay	1026.3	+1	SW	3	bc-	42	85	5	-	-	0	A Cu	7	0
Valentia (Cahirciveen)	1015.7	-1	S	4	cr₀	50	92	6	800	St	10	-	10	4
Roches Point	1019.1	0	W	3	bc	48	85	8	2500	St Cu	4	-	4	4
Pembroke (St. Ann's H.)	1021.8	+1	S	3	bc-	47	92	6	2500	Cu	4	Ci St	6	4
Ross-on-Wye	1024.9	+1	SSW	2	bc+	42	85	6	4000	St Cu	3	-	3	•
Leafield	1026.1	+1	S'E	3	b-	37	92	6	-	-	0	-	0	•
Winchester (Worthy Dn)	1026.6	+1	ESE	1	b	36	92	6	-	-	0	-	0	•
S. Farnborough	1027.1	+1	S	2	b	38	92	5	-	-	0	-	0	•
London (Kew Obsy.)	1027.3	+1	S	2	mb	39	85	4	-	-	0	-	0	•
Croydon	1027.2	+1	S	3	b	39	85	6	-	-	0	-	0	•
Shoeburyness	1027.8	+1	SW SW	1	b	35	97	6	-	-	0	-	0	•
Clacton-on-Sea	1027.3	0	~~ESE~~	2	b	39	85	7	4000	St Cu	1	-	1	3
Felixstowe	1027.6	+2	SSW	2	b	37	85	5	-	-	0	-	0	0
Lympne	1028.2	+1	S'W	3	b	37	92	6	-	-	0	-	0	•
Scilly (St. Mary's)	1021.1	0	SSE	4	b	47	97	7	4000	Cu	1	-	1	4
Falmouth (Pendennis)	1023.2	0	SE	3	bc	46	97	8	4000	St Cu	3	-	3	1
Plymouth (Cattewater)	1024.5	0	E	3	b	43	97	7	4000	Cu	1	-	1	1
Portland Bill	1025.1	0	SSW	3	b	45	75	8	-	-	0	-	0	4
Southampton (Calshot)	1026.9	0	SE	3	b	40	85	7	-	-	0	-	0	0
Dungeness	1028.8	+1	WSW	2	b	41	75	8	-	-	0	-	0	3
Guernsey (Fort George)	1026.5	0	S'E	3	b	44	75	8	-	-	0	-	0	1

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. %	Visibility 9h.
Day 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 8h.-21h., other stations.		24 HOURS ENDED 7h.								YESTERDAY.	TO-DAY.		
Kew	18	bmx	bz₀	bfx	45	25	18	Tr.	01	6.6	*	*	
Croydon	244	bx	bz₀	bx	47	34	23	Tr.	-	7.4	*	*	
Greenwich (Royal Obsy.)	149	b	bm	bxm	46	29	16	-	Tr.	6.8	66	93	3
City (Bushill Row)	80	*	*	*	*	*	*	*	*	1.3	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	47	29	28	—		4.9	76	98	*
Regent's Pk. (Botanic Gdns).	168	*	*	*	*	*	*	*	*	5.6	*	*	*
Camden Square	110	xm	bcb	*	46	29	•			*		96	*
Kensington Palace	80	bc	b	*	47	29	22	-	-	*	(At 18h.) 83	87	*
Hampstead Observatory	450	*	*	*	45	28	18	Tr	0.3	5.8	*	98	*

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time	Kew Observatory Max.	Time	Min.	Time
1.3	10h 22h	40.3	26h 5h	08	19h 24h	0.1	19h 44h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 19th ....h....m. to 20th ....h....m.

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

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep).
4 = Bare ground frozen (but more than 2 ins. deep).
5 = Dew (or wet grass but not wet ground).
6 = 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.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Tarmouth	7.55	12.04	16.14
Greenwich	7.57	12.05	16.15
Wick	7.56	12.11	16.25
Valentia	8.05	12.11	16.27
	8.44	12.23	16.02
	8.40	12.24	16.05
	8.39	12.52	17.05
		12.52	17.06

BEAUFORT NOTATION OF WEATHER.

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

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

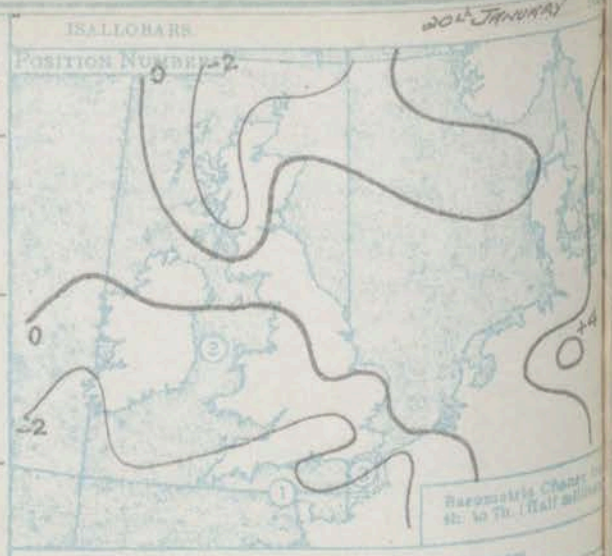
	Objects not visible at 50 yards.
0. Dense fog.	220 „
1. Thick fog.	550 „
2. Fog.	1,100 „
3. Moderate fog.	1¼ miles.
4. Mist or haze.	2½ „
5. Poor visibility.	6½ „
6. Moderate.	12½ „
7. Good.	31 „
8. Very good.	
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations	Weather 7h.-12h. 19	Weather 12h.-18h. 19	Weather 18h. 19 to 18h. 20	Weather 18h.-7h. 20	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 19 Hours.
Lerwick	c o ir m	c o d m c	c m c	c	47	39	•	4	<8.00	–	–	0.0
Stornoway	(30	o d d o	o r o	o o o ir q	47	42	•	1	<8.00	2	<21.00	0.0
Wick	o	c	c	c r r	47	41	•	–	–	1	5.30	•
Tiree	c ir	o d	p d c	p d o c	48	47	43	0.3	<8.00	1	<21.00	0.0
Nairn	c b c	b c	b c	b c	48	40	•	–	–	–	–	1.8
Aberdeen	c z b c	b c m	b c	b b c	47	37	30	–	–	–	–	0.5
Malin Head	b c c	c	c b c c	c g	51	46	•	–	–	–	–	0.0
Renfrew	o d c d	c d c	c b c p	b c	49	45	41	0.2	<8.00	Tr.	22.00	0.2
Edinburgh (Inchkeith)	b c c ir	c b c	b b c	b c c w o	49	42	38	Tr.	<8.00	Tr.	[illegible]	0.7
Leuchars	o ir c o	d d c i d b	b c c ir	c ir b b c c	46	37	31	0.6	<8.00	0.2	22.00	0.0
Eskdalemuir	o f e o d m	o d f i r m	f e i d	i d c m	43	39	39	5	<8.00	0.5	<21.00	0.0
Tynemouth	b c	b c c	c o b c	c o	49	36	29	–	–	–	–	•
Blackwod Point ...	D	D c	b c g	p c	50	48	•	5	•	10	•	•
Donaghadee	c i d c	b c c b c	b c c b c	b c	51	44	•	0.1	<8.00	–	–	•
Birr Castle	c i d c	c p r	c i r c	b c	52	42	35	0.3	<8.00	Tr.	<21.00	0.0
Holyhead	r d o	b r d	c m	c b c b w	48	42	37	1	9.00	–	–	0.0
Liverpool (Bidston) ...	c	c o c	b c b m	b b x m	48	35	31	–	–	–	–	1.0
Chester (Sealand) ...	c b c m	c b c m	b c c m	c m r	49	33	28	–	–	0.2	4.30	1.2
Harrogate	b c o	c i d	c b c b	b c c	46	36	30	Tr.	13.30	–	–	1.2
Spurn Head	c	c	c b c b	b c c f f x	44	31	•	–	–	Tr.	4.30	0.4
Birmingham (Edgbaston)	c o	b c c	c b c	b c b x	43	31	27	–	–	–	–	0.0
Cranwell	b c c	c	c b m	b, o f x	43	24	22	–	–	–	–	0.7
Gorleston	b c m	b c c m	b c b m x	b m x	46	30	25	–	–	–	–	3.7
Valentia (Cahirciveen)	b c c	c i r d	c i r	c b c	52	48	46	0.6	16.30	0.4	<21.00	0.0
Roches Point	c	c i r b c	b c c	c g	49	46	•	0.3	14.30	–	–	•
Pembroke (St. Ann's H.)	c	c b c	c b c	b c b	48	40	•	–	–	–	–	0.1
Ross-on-Wye	o c c	c b	b c c o c	b m b f x	46	27	20	–	–	–	–	0.0
Leafield	c	b c b	b	b f f x	44	29	24	0.1	–	0.4	–	1.6
Winchester (Worthy Dn)	b m x b c	b c b m	b m i f x	b i f x	47	28	18	–	–	–	–	6.6
S. Farnborough ...	b x m	b b m	b m x	b x	46	27	18	–	–	0.1	–	6.5
London (Kew Obsy.) ...	b m x	b z	b f x	b f x	45	25	18	Tr.	<8.00	0.1	–	6.6
Croydon	b x	b z	b x	b x	47	34	23	Tr.	–	–	–	7.4
Shoeburyness	b m	b m	b m	b m x	47	29	19	–	–	–	–	7.3
Clacton-on-Sea ...	b c b m g	b b c	b b m	b m b	44	36	26	–	–	–	–	6.2
Felixstowe	c m b c	b z	b z x	b m x	43	31	25	–	–	–	–	5.4
Lympne	b	b b m	b m	b m	44	33	30	–	–	–	–	7.8
Scilly (St. Mary's) ...	b c	b c b	b b c	b c	53	45	•	–	–	–	–	7.3
Falmouth (Pendennis)	c b c	b c	b c b	b	50	45	•	–	–	–	–	3.0
Plymouth (Cattewater)	o c	c b w	b w	b w	50	39	32	Tr.	–	0.1	–	2.2
Portland Bill	b	b	b	b	47	42	•	–	–	–	–	•
Southampton (Calshot)	b c b m	b, b w	b w	b w x	44	35	26	–	–	–	–	7.6
Dungeness	b	b	b z	b c b	45	37	•	–	–	–	–	•
Guernsey	b	b	b	b x	44	40	•	–	–	–	–	8.1



Observations from Cross Channel Steamers.

Position	Date and Time	Steamship	Wind Direc.	Wind Force	Weather	Temp. Air	Temp. Sea
2	19th 20h	Scotia	SW	5	1/pc.	49	48
1	" 10h	St. Julien	SW	4	bc	48	47
3	20th 2h	Brighton	SW	2	S.S.	41	44

GENERAL INFERENCE.

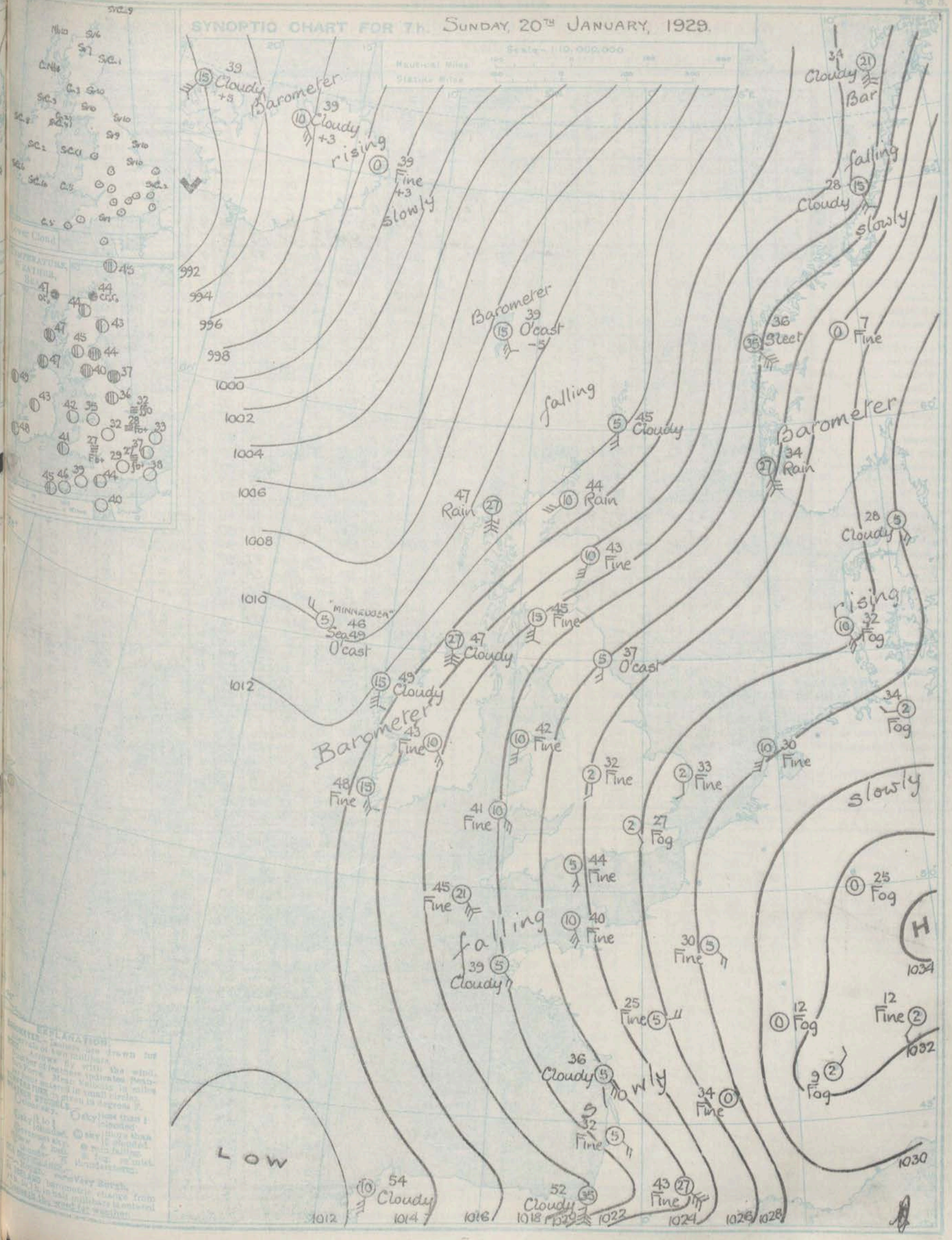
The anticyclone now centred over Switzerland is moving slowly up to the Balt[illegible] In all districts except the extreme west and north the weather will be fine, apart fr[illegible] some local mist or fog.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 20th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S. light to moderate; bright, apart from some local mist or fog particularly at night and in the early morning; moderate day temperature; sharp frost inland at night.	Mainly fine; A renewed spell cold weather se[illegible] rather probable.
5. S.W. England 6. South Wales 7. North Wales	Wind S. to S.E., light to moderate; fine; moderate temperature to rather mild.	
8. N.W. England 9. N. Midlands 10. N.E. England	As 1 - 4.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind S. to S.W., light to moderate; fair; mild.	
13 A. W. Scotland B. N.W. Scotland	Wind S. fresh to strong at times; cloudy, some local drizzle; mild.	
14. Mid Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	As 11 - 13.	
17. N.W. Ireland	As 13A - 13B.	
18. N.E. Ireland	As 11 - 13.	
19. S.E. Ireland 20. S.W. Ireland	As 5 - 7.	

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

† For code see page 1

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


SYNOPTIC CHART FOR 7h. SUNDAY, 20TH JANUARY, 1929.
Scale - 1/10,000,000
Nautical Miles
Statute Miles
Over Cloud
Temperature, Weather, Sea
Barometer rising
Barometer falling
Barometer falling slowly
Barometer rising slowly
Barometer falling slowly
LOW
H
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
"MINNEWASKA"
Sea 49
O'cast
Cloudy
Fine
Rain
Sleet
Fog

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Sunday, 20th January 1929. No. 20

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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10
Lerwick	54	1014.7	+1	-	0	o	39	92	7	1500	St	10	-	10
Stornoway	30	1013.7	-2	SW	4	or₀	*	*	6	*	*	*	*	10
Wick	81	1015.4	-1	W	2	c	44	85	8	1500	Stcu	6	Ast	10
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	88	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1015.0	-3	S	6	c+	48	85	8	5100	Stcu	5	Cicu	8
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	190	1018.1	+1	SW	3	bc	45	92	8	4000	Cu	1	Acu	5
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1021.6	0	SSW	2	bc	44	85	7	1500	Cu	6	-	6
Blacksod Point ...	18	1013.1	-1	S	5	bc	50	85	7	*	CuNb	7	-	7
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1021.8	0	SE	3	c	44	92	6	1500	St	9	-	9
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1024.7	0	SW	3	b	36	97	6	5700	Stcu	2	-	2
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	238	1025.5	0	SSW	3	b-	31	97	5	-	-	0	-	0
Gorleston	14	1027.1	0	SW	1	b	35	92	6	-	-	0	-	0
Valentia (Cahirciveen) P	30	1015.3	0	S	3	o	50	97	8	-	St	10	-	10
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1021.7	0	SE	3	bc	44	85	7	2500	Cu	4	-	4
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	28	*	*	*	*	*	*	*
Croydon	244	1026.5	-1	SE	4	b	35	97	7	-	-	0	-	0
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1027.6	0	SSE	3	b	37	92	6	-	-	0	-	0
Scilly (St. Mary's) ...	163	1020.2	-1	SSE	5	bc	45	97	7	4000	Cu	5	-	5
Falmouth (Pendennis)	200	1022.0	0	SE	3	b	45	85	8	-	-	0	-	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1024.5	0	SSE	3	b	45	85	8	-	-	0	-	0
Southampton (Calshot)	10	1026.1	-1	ESE	3	b	39	85	7	-	-	0	-	0
Dungeness	20	1027.6	-1	S	2	b-	40	92	6	-	-	0	-	0
Guernsey (Fort George) P	295	1026.2	-2	SSE	4	b-	41	85	7	-	-	0	-	0

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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1011.4	-2	S	2	c	45	92	8	1500	Stcu	9	-	9	*
Stornoway	1010.6	-3	S	6	or₀	47	97	6	1500	Nb	10	-	10	4
Wick	1013.7	-1	SW	3	cr₀r₀	44	92	8	1500	St	6	Ast	10	3
Tiree	1013.6	0	S	5	c	47	97	7	1500	CuNb	8	-	8	4
Nairn	1013.7	*	-	0	bc+	44	85	8	1500	St	7	-	7	*
Aberdeen	1017.7	+1	SSW	3	bc	43	92	7	4000	Stcu	1	Acu	5	0
Malin Head	1014.1	0	S	6	c	47	85	7	5100	Stcu	9	-	9	5
Renfrew	1018.2	-2	SSW	4	bc	45	92	8	4000	Cu	3	-	3	*
Edinburgh (Inchkeith)	1018.1	0	SW	2	o	44	85	7	800	St	10	-	10	0
Leuchars	1018.3	0	-	0	c+	44	85	7	2500	St	5	Ast	9	*
Eskdalemuir	1021.0	0	SWS	4	o	40	97	5	800	St	10	-	10	*
Tynemouth	1021.5	0	S	2	o	37	97	5	800	St	10	-	10	1
Blacksod Point	1012.8	0	S	4	c	49	85	6	*	Stcu	8	-	8	5
Donaghadee	1019.3	0	SSW	2	bc	44	85	7	4000	Stcu	7	-	7	2
Birr Castle	1016.8	*	SE	3	bc-	43	92	7	2500	Stcu	2	Ast	6	*
Holyhead	1020.2	-1	SW	3	b	42	85	8	4000	Stcu	1	Ci	1	1
Liverpool (Bidston)	1021.5	-1	SSE	4	b	35	97	6	-	-	0	-	0	*
Chester (Sealand)	1022.4	-2	SES	3	c	35	92	5	2500	Stcu	10	-	10	*
Harrogate	1023.5	0	-	0	c	36	97	5	2500	St	9	-	9	*
Spurn Head	1024.5	0	S	3	ffo	32	97	2	450	St	10	-	10	3
Birmingham (Edgbaston)	1024.6	-1	S	1	b	32	97	6	-	-	0	-	0	*
Cranwell	1025.8	0	SSE	2	Fo+	28	97	1	<160	St	10	-	10	*
Gorleston	1026.9	0	SW	1	b	33	97	5	-	-	0	-	0	0
Valentia (Cahirciveen) P	1014.4	-2	SSE	4	bc	48	85	8	2500	Stcu	6	-	6	4
Roches Point	1017.7	-1	SW	3	c	47	97	8	1500	Stcu	10	-	10	4
Pembroke (St. Ann's H.)	1019.9	-1	ESE	3	bc+	41	97	7	2500	Cu	5	-	5	2
Ross-on-Wye	1023.9	-1	-	0	Fb+	27	97	1	-	-	0	-	0	*
Leafield	1024.4	-1	SE	3	FFb	30	97	1	-	-	0	-	0	*
Winchester (Worthy Dn.)	1024.7	-2	E	1	ifb	28	97	3	-	-	0	-	0	*
S. Farnborough	1025.0	-2	SE	1	b	29	97	6	-	-	0	-	0	*
London (Kew Obsy.)	1025.6	-2	SEE	1	fb+	27	92	3	-	-	0	-	0	*
Croydon	1025.5	-1	SW	4	b	36	92	6	-	-	0	-	0	*
Shoeburyness	1026.5	-1	SSE	1	b	31	97	6	-	-	0	-	0	*
Clacton-on-Sea	1026.5	-1	SE	3	b	37	92	6	4000	Stcu	2	-	2	2
Felixstowe	1026.9	-1	SW	3	b	36	92	5	-	-	0	-	0	2
Lympne	1026.5	-1	ESE	3	b	34	97	6	-	-	0	-	0	*
Scilly (St. Mary's)	1019.4	-2	SES	5	bc	45	92	7	4000	Cu	5	-	5	4
Falmouth (Pendennis)	1019.8	-2	SE	4	b	46	85	8	-	-	0	-	0	1
Plymouth (Cattewater)	1021.6	-4	ESE	4	b	39	97	8	-	-	0	-	0	0
Portland Bill	1022.8	-2	SSE	2	b	44	85	8	1500	St	1	-	1	2
Southampton (Calshot)	1024.7	-1	ES	3	b	38	92	7	-	-	0	-	0	0
Dungeness	1026.6	+1	SSE	2	b	38	85	8	-	-	0	-	0	2
Guernsey (Fort George) P	1023.3	-2	SSE	3	b	40	85	7	-	-	0	-	0	3

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19th JANUARY 1929

Stations (1)	Weather Fore-noon. (2)	Weather After-noon. (3)	Temperature Min. 9h. 18th to 9h. 19th (4) °F.	Temperature Max. 9h.-17h. 19th (5) °F.	Rainfall† Night 17h.-9h. 18th-19th (6) mm.	Rainfall† Day 9h.-17h. 19th (7) mm.	Sunshine Sunrise to Sunset 19th (8) hr.
Berwick-on-Tweed	c	o	37	43	-	-	1.3
Douglas (I. o. M.) ...	om	omcom	42	49	-	-	0.2
Llandudno ...	cbc	c	41	54	Trace	-	1.6
Colwyn Bay ...	cbbc	cbcc	44	51	-	-	2.2
Rhyl	cbc	bcc	41	52	-	-	1.0
Wallasey ...	c	c	37	49	Trace	-	0.1
Southport ...	od	o	*39	47	0.1	1	0.0
Blackpool ...	o od	or	36	47	-	1	0.0
Ilkley ...	ogd₀	o	35	47	0.2	0.3	0.0
Cleethorpes ...	co	oe	34	45	-	-	0.0
Skegness ...	bxbc	co	33	40	Trace	-	2.6
Aberystwyth ...	c	c	41	49	-	-	0.0
Bath ...	bccbc	bbcc	34	48	-	-	3.2
Cheltenham‖ ...	c	cbcb	39	46	-	-	0.1
Leamington Spa ...	c	c	32	44	-	-	0.0
Lowestoft ...	bbc	om	38	44	-	-	4.1
Harwich & Dovercourt	xoc	bc	31	45	Trace	-	6.3
Maldon ...	xmb	b	30	46	0.3	-	6.8
Southend ...	bm	bm₀	33	48	0.4	-	7.2
Bude	cbc	cbcb	37	51	0.1	-	3.8
Penzance	cbc	cbc	48	51	-	-	3.6
Paignton	cbcb	b	41	50	-	-	6.4
Torquay	bc	bbz	41	49	-	-	4.8
Jersey	b	b	37	46	-	-	8.2
Weymouth	m₀ b	b	43	49	Trace	-	7.7
Bournemouth ...	b	b	37	48	-	-	7.7
Ventnor ...	x b	b	39	47	Trace	-	7.1
Portsmouth (S'thsea)	b	b	35	48	-	-	7.9
Bognor	b	b	35	46	0.3	-	8.1
Littlehampton ...	b	b	33	44	0.2	-	8.0
Worthing	b	b	34	47	-	-	7.8
Brighton	b	b	38	45	-	-	7.8
Eastbourne‖	b	b	40	47	0.1	-	7.9
Hastings‖	b	b	37	46	0.5	-	7.8
Folkestone	xbcbm	bm	33	45	-	-	6.7
Dover	mb	b	36	45	Trace	-	7.4
Tunbridge Wells ...	b	b	34	47	0.3	-	7.7
Ramsgate	bx	b	35	46	Trace	-	7.6
Margate	bcxb	b	34	48	-	-	7.3
Deal	xb	b	32	45	0.3	-	7.3

TERMS OF SUBSCRIPTION.—6/6 per quarter or 26/- per year, post free. Single copies may be obtained at the Meteorological Office, price 1d.

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24532. Monday 21st January 1929. Page 1.

Observations at 13h. G.M.T. 20th

Stations (For heights see p. 4)	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground
Lerwick	1010.6	-1	S	2	cjp	46	92	7	1500	StCu	10	-	10	*
Stornoway	1011.9	+3	SSW	3	o/r	46	92	6	2500	Nb	10	-	10	*
Wick	1014.4	+1	SW	3	c	44	97	8	1500	CuNb		ASt	10	*
Tiree	1014.8	+1	S'W	4	c	46	97	7	2500	StCu	8	-	8	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1017.7	0	SSW	3	c	45	85	6	1500	St	1	ACu	9	2
Malin Head	1015.9	0	S	4	c	46	85	7	5700	StCu	8	CiSt	9	*
Renfrew	1019.2	0	S	3	c	44	85	7	2500	StCu	7	ASt	9	1
Edinburgh (Inchkeith)	1018.8	+1	W	3	c	43	75	7	4000	Cu	8	ACu	8	*
Leuchars	1018.8	0	WSW	4	c+	45	75	7	5700	StCu	7	Ci	8	2
Eskdalemuir	1021.1	+1	S	3	bc	43	85	7	2500	Cu	4	Ci	7	2
Tynemouth	1021.0	-1	SSW	2	ffbc	40	92	3	800	St	5	Ci	7	*
Blacksod Point	1013.0	0	S	4	bc	49	92	8		CuNb	5	-	5	*
Donaghadee	1019.4	+1	SW	2	c-	46	85	7	4000	StCu	6	ASt	8	*
Birr Castle	1016.1	*	SE	4	bc	48	86	7	2500	Cu	6	-	6	*
Holyhead	1019.8	-1	SSE	3	bc	49	55	8	-	-	0	CiSt	7	1
Liverpool (Bidston)	1021.6	-1	SE	4	b	38	85	5	-	-	0	Ci	1	*
Chester (Sealand)	1022.1	-1	SSE	3	bc-	39	91	5	4000	Cu	2	Ci	4	1
Harrogate	1023.3	0	S	1	FFo	33	97	0	<150	St	10	-	10	*
Spurn Head	1024.5	0	SSE	3	bc-	37	97	6	4000	StCu	4	-	4	*
Birmingham (Edgbaston)	1023.3	-1	SSE	2	ffbc	35	92	3	800	St	5	Ci	6	2
Cranwell	1025.3	-1	SSE	3	FFc	31	97	1	<150	St	9	-	9	6
Gorleston	1026.7	-1	S'W	3	b	43	85	6	-	-	0	-	0	*
Valentia (Cahirciveen)	1013.4	-2	SSE	4	c	50	75	8	2500	Cu	4	ACu	9	1
Roches Point	1017.1	-2	SW	3	c	47	97	8	2500	StCu	8	-	8	*
Pembroke (St. Ann's H.)	1019.3	-1	SE	4	bc+	44	85	6	800	Cu	4	CiSt	7	*
Ross-on-Wye	1022.7	-1	NNE	2	b-	38	92	5	-	-	0	-	0	6
Leafield	1023.6	0	SE	3	b/f	37	97	5	450	St	1	CiSt	2	3
Winchester (Worthy Dn.)	1023.4	-3	E'S	3	b	45	65	7	-	-	0	-	0	2
S. Farnborough	1023.9	-2	SE	3	b	47	55	6	-	-	0	-	0	1
London (Kew Obsy.)	1024.4	-3	E	1	fb-	37	92	2	-	-	0	-	0	3
Croydon	1024.2	-3	S'W	3	b+	47	65	6	-	-	0	Ci	1	2
Shoeburyness	1025.8	0	ESE	2	b	43	75	6	-	-	0	-	0	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1026.6	-2	SE'E	1	b	43	85	7	-	-	0	-	0	2
Lympne	1025.3	-3	E'S	4	b	41	65	7	-	-	0	-	0	2
Scilly (St. Mary's)	1016.8	-3	SE	4	bc	48	85	6	4000	Cu	4	-	4	*
Falmouth (Pendennis)	1018.2	-2	SE	4	bc+	47	75	8	4000	StCu	3	-	3	*
Plymouth (Cattewater)	1020.2	-2	ESE	4	b	48	75	8	4000	Cu	1	-	1	1
Portland Bill	1021.2	-3	E	3	b	45	85	6	2500	Cu	1	-	1	*
Southampton (Calshot)	1022.9	-4	ESE	5	b	43	85	6	-	-	0	-	0	3
Dungeness	1025.7	-2	SE	2	b	42	65	8	-	-	0	-	0	*
Guernsey (Fort George)	1021.3	-3	SSE	3	b	44	75	7	-	-	0	-	0	*

Observations at 18h. G.M.T. 20th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1012.7	+3	SW	3	c	47	92	7	1500	StCu	5	ASt	8	*
Stornoway	1013.7	+3	SSW	4	orr	46	97	6	1500	Nb	10	-	10	2
Wick	1015.7	+2	SW	4	c	43	92	8	1500	CuNb	5	ASt	10	3
Tiree	1015.9	+1	SSW	4	c	44	92	8	1500	Cu	7	-	7	4
Nairn	1016.3	*	-	0	c	43	85	8	2500	StCu	8	-	8	*
Aberdeen	1018.5	+1	SSW	2	c	43	75	6	-	-	0	ASt	10	0
Malin Head	1016.7	+1	S	3	bc-	44	85	7	5700	StCu	2	ACu	5	2
Renfrew	1019.7	+1	E	2	c	42	75	7	2500	Cu	9	-	9	*
Edinburgh (Inchkeith)	1019.7	+2	W	1	bc	41	85	6	800	St	6	-	6	0
Leuchars	1019.5	+1	SW	1	c+	38	85	6	5700	StCu	2	CiSt	9	*
Eskdalemuir	1021.6	+1	-	0	bc-	34	85	6	2500	StCu	7	-	7	*
Tynemouth	1021.4	+1	WSW	2	ffbc	33	97	3	800	St	5	Ci	7	1
Blacksod Point	1013.4	+1	S	4	bc	48	85	7	*	CuNb	7	-	7	5
Donaghadee	1019.4	+1	SW	2	bc-	43	85	7	4000	StCu	3	ASt	5	2
Birr Castle	1015.6	*	SE	2	bc	43	85	7	2500	StCu	2	ASt	6	*
Holyhead	1018.9	-1	-	0	bc	41	85	7	-	-	0	CiSt	7	0
Liverpool (Bidston)	1021.2	0	SE'S	4	c∞	36	92	5	-	-	0	CiSt	9	*
Chester (Sealand)	1021.4	0	SE	3	bcm+	35	92	4	4000	Cu	6	-	6	*
Harrogate	1023.4	0	-	0	FFo	33	97	1	<150	St	10	-	10	*
Spurn Head	1024.0	0	SSE	3	bc	36	97	5	2500	St	4	-	4	2
Birmingham (Edgbaston)	1022.9	0	ESE	2	fb	37	85	3	-	-	0	-	0	*
Cranwell	1025.8	0	SE'E	1	Fb	27	97	1	-	-	0	-	0	*
Gorleston	1026.0	0	SE'S	4	b	38	92	6	-	-	0	-	0	0
Valentia (Cahirciveen)	1012.2	-2	SE	5	bc	48	75	8	1500	StCu	7	-	7	4
Roches Point	1015.9	-1	S	3	c	47	85	8	2500	StCu	9	-	9	4
Pembroke (St. Ann's H.)	1018.4	-1	ESE	3	bc-	41	92	6	-	-	0	Ci	4	2
Ross-on-Wye	1022.1	0	E'N	2	fc+	31	97	2	220	St	9	-	9	*
Leafield	1022.6	-1	E	3	b	35	85	5	-	-	0	-	0	*
Winchester (Worthy Dn.)	1022.3	0	E	2	b	36	75	7	-	-	0	-	0	*
S. Farnborough	1022.7	0	SE	3	b	38	65	5	-	-	0	-	0	*
London (Kew Obsy.)	1023.1	0	ESE	3	mb	38	65	4	-	-	0	-	0	*
Croydon	1023.8	0	SE'S	3	b	36	85	6	-	-	0	-	0	*
Shoeburyness	1024.2	-1	E'S	4	b	37	97	6	-	-	0	-	0	*
Clacton-on-Sea	1024.7	-1	ESE	4	b	38	85	7	4000	StCu	1	-	1	4
Felixstowe	1025.2	-3	ESE	3	b	38	92	6	-	-	0	-	0	2
Lympne	1023.9	-1	ESE	4	b	37	75	6	4000	StCu	1	-	1	*
Scilly (St. Mary's)	1015.6	-1	SE	5	c	47	85	7	4000	StCu	10	-	10	4
Falmouth (Pendennis)	1016.9	0	SE	4	bc	46	85	7	4000	StCu	2	Ci	3	4
Plymouth (Cattewater)	1019.1	+1	E	4	b	42	92	8	-	-	0	Ci	1	0
Portland Bill	1019.7	-1	E	4	b-	43	75	6	2500	StCu	1	-	1	2
Southampton (Calshot)	1022.3	0	E	4	b	37	85	6	-	-	0	-	0	3
Dungeness	1024.3	-3	SE	3	bc+	40	75	8	4000	StCu	4	-	4	3
Guernsey (Fort George)	1020.2	-2	SE'S	3	b	44	75	7	-	-	0	-	0	3

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Temp. Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
		24 Hours ended 9h											
Kew	18	ofzabfz	bfbybm	bfz	45	29	19	-	0.1	3.9	*	*	2
Croydon	244	bx	bz₀	bxbbc	48	30	20	-	-	7.7	*	*	3
Greenwich (Royal Obsy.)	149	bm	bx	bmxof	46	26	15	-	Tr	7.8	65	91	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	1.0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	45	31	25	-	-	1.1	75	85	*
Regent's Pk. (Botanic Gdns).	188	*	*	*	*	*	*	*	*	1.6	*	*	*
Camden Square	115	xcf	cf	*	38	29	-	-	-	*	*	97	*
Kensington Palace	80	com	cmb	*	41	29	22	-	-	*	(At 18h) 77	90	*
Hampstead Observatory	450	*	*	*	42	28	19	-	0.1	1.6	*	97	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time	Min.	Time.
3.2	20th 11h	0.3	21st 5h

Kew Observatory			
Max.	Time.	Min.	Time.
3.8	20th 12h	0.1	20th 14h

Pole Star Record at Greenwich Obsy.

Exposure from 20th 17h 45m. to 21st 06h 45m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13 0	13 0	100
δ Ursae Minoris	13 0	13 0	100

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

Table showing the Greenwich Times of Sunrise, Noon, and Sunset. 21st 22nd January 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.54 / 7.53	12.5 / 12.5	16.15 / 16.17
Greenwich	7.56 / 7.55	12.11 / 12.12	16.27 / 16.29
Wick	8.44 / 8.42	12.24 / 12.24	16.5 / 16.7
Valentia	8.39 / 8.38	12.52 / 12.53	17.6 / 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. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—12000 m.
h hail. i intermittent.
jp precipitation within sight of station.
KQ line squall. l lightning.
o overcast sky. p passing showers.
q squally. r rain. s snow.
rs sleet. t thunder.
u ugly, threatening sky.
v unusual visibility. w dew.
x hoar frost. y dry air.
z dust haze; the turbid atmosphere of dry weather.
h(r)="hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity.
R = heavy rain. r_0 = slight rain. rr = continuous rain.

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

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

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

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

§ Telegraphic Code for Surface Visibility.

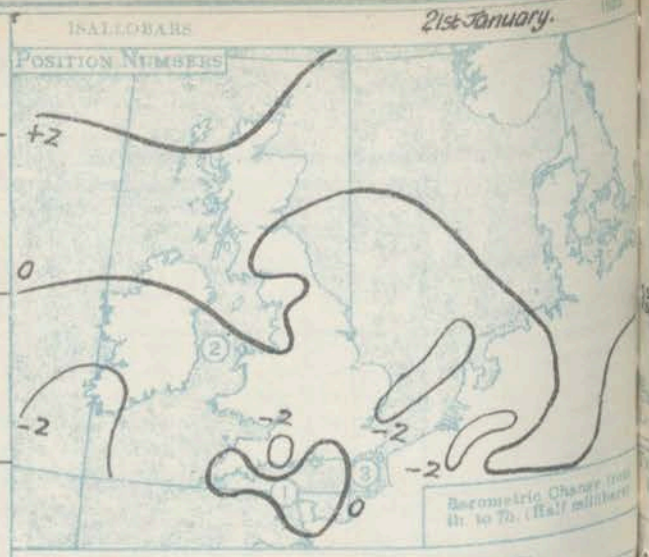
Code	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	Weather. 7h.-18h. 20th	Weather. 18h.-18h. 20th	Weather. 18h 20th to 1h 21st	Weather. 1h.-7h. 21st	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 20th. Hours.
Lerwick	coir.	c	coir	or.r	47	42	•	0.2	09.00	7	22.00	0.0
Stornoway	p	oir.or	cro	o	47	43	•	8	<08.00	1	<21.00	0.0
Wick	cirrc	c	c	c	45	38	•	0.4	<08.00	–	–	•
Tiree	prc	bcc	cbcc	com.	48	42	38	0.6	09.00	–	–	0.2
Nairn	bc	bcc	cbcx	bc	48	32	•	–	–	–	–	0.7
Aberdeen	cz.	cz.	c	c	45	33	26	–	–	–	–	0.0
Malin Head	c	cbc	bcb	b	47	33	•	–	–	–	–	0.0
Renfrew	bcc	c	ccffx	cfbmx	46	26	20	–	–	–	–	1.1
Edinburgh (Inchkeith)	cc	cbcm.	bcmmm	bccmw	45	35	25	–	–	Tr	–	1.9
Leuchars	cm.bcc	cm.bcw	cbcwbcx	bbcx	46	27	19	–	–	Tr	–	1.7
Eskdalemuir	cm.bc	cbcm.	bcmx	bm.x	43	26	27	–	–	–	–	2.6
Tynemouth	ccff	bcff	bccff	bcff	41	31	26	–	–	–	–	•
Blacksod Point ...	cbc	c	cb	cb	50	42	•	–	•	–	•	•
Donaghadee	bcc	cbc	bcm.c	bcm.c	46	40	•	–	–	–	–	•
Birr Castle	bc	bc	bcc	c	49	41	36	–	–	–	–	1.0
Holyhead	bc	bcy	ⓦbcbbc	bcb	50	35	27	–	–	–	–	6.2
Liverpool (Bidston) ...	cfbm.	bbcc	cofc	fcom.	41	30	29	–	–	0.1	–	5.0
Chester (Sealand) ...	cm.m	bcm.	cmf	cfx	43	31	30	–	–	–	–	3.7
Harrogate	coFF	oF.F	oFF	oFF	36	28	28	–	–	–	–	0.0
Spurn Head	effocbc	bc	bcx	bcbx	39	34	•	Tr	<08.00	–	–	4.5
Birmingham (Edgbaston)	bbcf	bcbm	bmx	bmofx	40	28	23	–	–	–	–	4.5
Cranwell	oFF	cbFx	bfx	bfx	32	23	19	–	–	–	–	0.0
Gorleston	b	b	bx	bxb	45	33	26	–	–	–	–	6.6
Valentia (Cahirciveen)	bcc	cbc	bc	bcc	51	46	43	–	–	–	–	0.0
Roches Point	c	c	c	c	49	46	•	–	–	–	–	•
Pembroke (St. Ann's H.)	bbm.	bcm.	bcbm	bccm.	45	39	•	–	–	–	–	6.6
Ross-on-Wye	Fxbfecm	bifbF	cfofx	offx	39	26	26	0.1	–	–	–	3.9
Leafield	FFb	b	bmx	bm	41	26	20	0.1	–	0.2	–	3.8
Winchester (Worthy Dn.)	bifxm.	bx	bx	bbcxm.	46	30	20	–	–	–	–	7.0
S. Farnborough ...	bxmfb	byx.m.	bm.x	bmxf	48	25	16	–	–	0.1	–	7.3
London (Kew Obsy.) ...	ofxbfx	bfxbyubg	bfx	bfx	45	29	19	–	–	0.1	–	3.9
Croydon	bx	bx.	bx	bbcx	48	30	20	–	–	–	–	7.7
Shoeburyness	bm.	bm.	bm.	bcm.	44	27	19	–	–	–	–	7.1
Clacton-on-Sea ...	b	b	bbm	bmb	43	35	27	–	–	–	–	7.9
Felixstowe	b	b	bm.	bx	43	34	23	–	–	–	–	7.7
Lympne	b	b bm.	bm.bcm	bc mx	42	30	23	–	–	–	–	7.8
Scilly (St. Mary's) ...	bc	bcc	c	crrbc	48	46	•	–	–	1	0230	5.5
Falmouth (Pendennis)	b	bc	bcc	cr	47	45	•	–	–	1	03.30	7.4
Plymouth (Cattewater)	bwq	bw	bw	bwod	49	41	34	Tr	–	0.3	04.30	7.5
Portland Bill	bz.	bbcbz.	b	bor	46	45	•	–	–	0.5	06.30	•
Southampton (Calshot)	bxmbm.	bm.	bwm.	bwmcm	43	35	33	–	–	–	–	7.6
Dungeness	bb	bbc	bcbc	bc	42	34	•	–	–	–	–	•
Guernsey	bx	b	b	bbcr	44	41	•	–	–	0.2	–	8.2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
3	21st 2h	Arundel	SE	4	b	39	45	8

GENERAL INFERENCE.

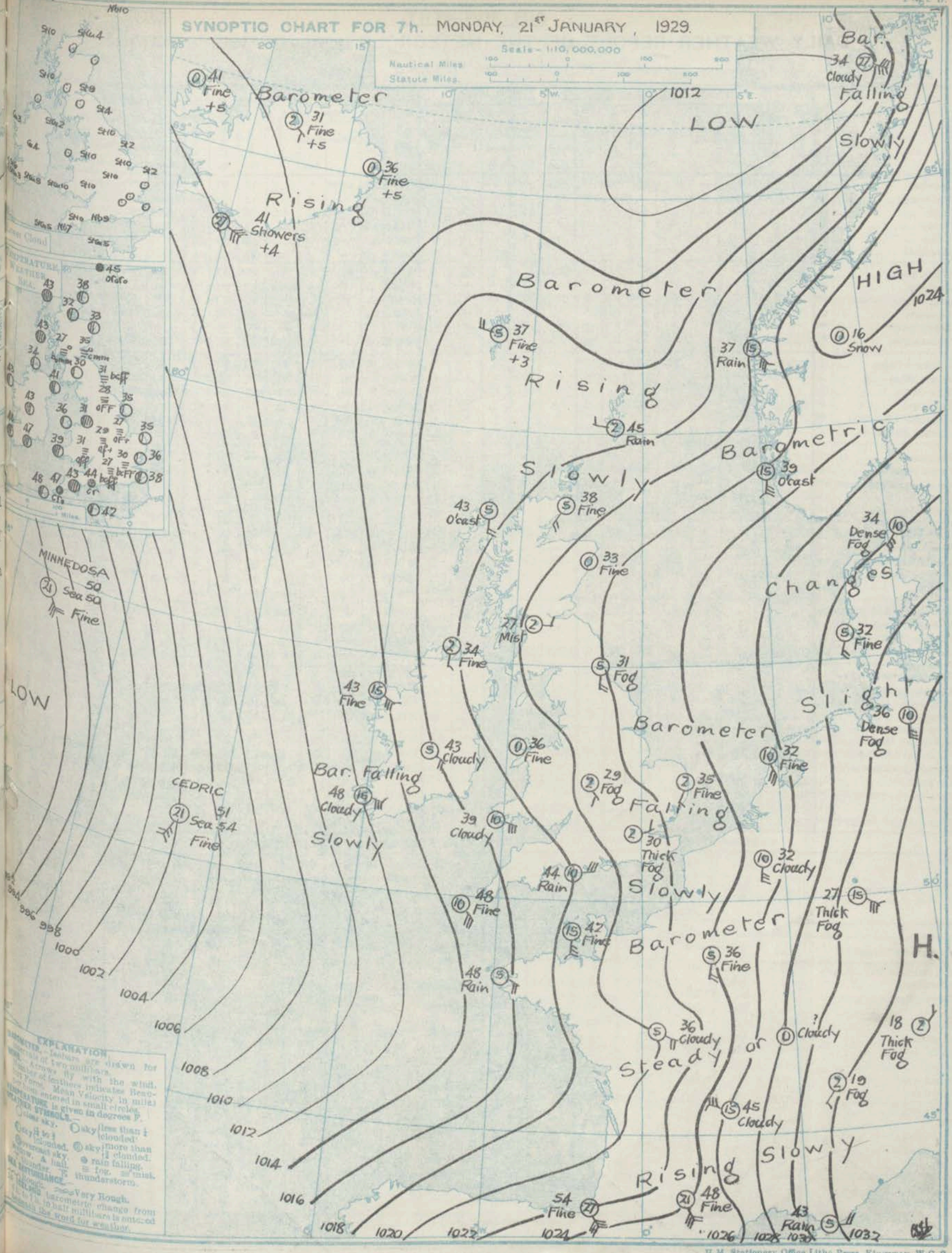
A large and intense anticyclone is centred over Poland and a deep depression situated North of the Azores will probably fill up, secondaries to it moving northwards over the western half of the British Isles. Some rain or drizzle will occur in western districts, but in the east weather will probably continue mainly fair with local fog and night frost.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 21st January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind S.E. light or moderate, mainly fair apart from local fog; moderate day temperature, frost inland at night.	None issued.
4. W. Midlands 5. S.W. England	Wind S.E., light to moderate; cloudy, some light rain or drizzle, some mist or fog; moderate day temperature, local night frost.	
6. South Wales 7. North Wales	Wind S.E. to S., moderate to strong; cloudy, some rain or drizzle, local mist; moderate temperature.	
8. N.W. England 9. N. Midlands	As 4.	
10. N.E. England 11. S.E. Scotland	Light S. to S.E. winds, mainly fair; some mist or fog; moderate day temperature, night frost.	
12. S.W. Scotland & Isle of Man 13 {a. W. Scotland b. N.W. Scotland	Moderate S. to S.E. winds; cloudy, some rain or drizzle, local mist; moderate temperature.	
14. Mid-Scotland 15. N.E. Scotland	As 10-11.	
16. Orkneys and Shetlands	Light variable winds; cloudy, some rain or showers; moderate temperature.	
~~17. N.W. Ireland~~ 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S.E. moderate to fresh, strong locally; mainly cloudy, some rain or showers, local mist; moderate temperature.	

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

~~† For code see page 1~~

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


SYNOPTIC CHART FOR 7h. MONDAY, 21st JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometer
Rising
Slowly
Falling
LOW
HIGH
1012
1024
Bar.
Falling
Slowly
Barometric
Changes
Slight
Steady
or
Rising
Slowly
Falling
Slowly
Barometer
Steady
MINNEDOSA
CEDRIC
H.
EXPLANATION

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Monday 21st January.....1929. No. 21.....

Stations.	Height above M.S.L. in feet.	Obs. at 1h. G.M.T. 21st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Obs. at 7h. G.M.T. 21st: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility. 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form	Total Amt. 0-10	Sun. 0-9
Lerwick	84	1016·7	+2	SW	1	or	43	97	7	1500	Nb	10	-	10	1016·8	+2	W'N	1	or$_o$r$_o$	46	92	7	1500	Nb	10	-	10	•
Stornoway	30	1016·9	+2	SSW	4	c	•	•	6	•	•	•	•	10	1017·4	+2	S	2	o	43	92	6	2500	St	10	-	10	1
Wick	81	1017·6	+2	SW	4	c	43	85	8	1500	StCu	6	CiSt	8	1015·1	+2	SW	2	bc	38	85	8	1500	StCu	4	-	4	2
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·0	+1	S'E	3	o	43	85	5	220	St	10	-	10	1
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1018·5	•	-	0	bc	32	85	8	-	-	0	ACu	4	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·7	0	-	0	bc	33	85	6	-	-	0	ACu	5	0
Malin Head	81	1017·6	0	S	1	b	40	92	8	4000	Cu	1	ACu	2	1018·1	-1	S	1	b	34	92	7	-	-	0	ACu	1	2
Renfrew	58	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·7	0	E	1	mmb	27	97	4	-	-	0	-	0	•
Edinburgh (Inchkeith)	100	1020·0	0	N?	2	mmb	38	97	4	800	St	4	ACu	7	1020·1	0	N	1	mmc	36	97	4	800	St	9	-	9	0
Leuchars	30	•	•	•	•	•	-	•	•	•	•	•	•	•	1020·6	0	-	0	c+	29	92	6	4000	StCu	4	ACu	8	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·1	-1	-	0	b	30	75	6	-	-	0	ACu	1	•
Tynemouth	67	1022·3	0	SSW	1	bc/f	33	97	6	800	St	4	-	4	1021·9	-1	S	2	ff bc	31	97	3	1500	St	4	-	4	1
Blacksod Point ...	18	1013·5	0	SE	4	bc	44	85	7	-	Cu	3	-	3	1013·5	0	SE	4	bc	43	97	7	•	Cu	3	-	3	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·5	+1	SE	2	bc	41	92	6	4000	StCu	2	ASt	4	2
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·8	•	SE	2	c+	43	85	7	1500	Cu	4	ASt	10	•
Holyhead	26	1018·6	-1	S'E	1	bc	36	75	8	-	-	0	CiSt	5	1018·2	0	-	0	b	36	85	8	-	-	0	Ci	1	1
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·1	-1	SE	5	o	31	97	5	2600	St	10	-	10	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1019·9	0	SE	4	fo-	31	97	3	1500	St	10	-	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·4	0	-	0	FFo	28	97	1	4150	St	10	-	10	•
Spurn Head	39	1023·4	0	SSE	3	bc	38	92	6	2500	St	3	-	3	1022·0	0	SE'S	3	b	35	97	6	2500	St	2	-	2	•
Birmingham (Edgbaston)	595	•	•	•	•	•	•	•	•	•	•	•	•	•	1021·7	0	SSE	1	ffo	29	97	3	800	St	10	-	10	•
Cranwell	336	1024·6	0	SE	2	iffb	25	97	3	-	-	0	-	0	1023·7	0	SSE	1	fo+	27	92	1	220	St	10	-	10	•
Gorleston	14	1024·6	-2	SSW	4	b	38	92	6	-	-	0	-	0	1023·2	-1	SW'S	1	b	35	97	6	2500	St	2	-	2	0
Valentia (Cahirciveen) ‡	30	1013·3	-1	SE	3	bc	46	97	8	-	St	5	-	5	1011·9	-2	ESE	4	c	48	85	8	2500	St	9	-	9	3
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1014·5	-1	S	3	c	47	92	8	2500	StCu	9	-	9	4
Pembroke (St. Ann's H.)	150	1017·0	0	ESE	4	bc+	40	92	6	800	Cu	7	-	7	1016·8	-1	ESE	3	c	39	97	5	800	StCu	10	-	10	2
Ross-on-Wye	225	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·8	-1	ENE	1	ffo	31	97	3	450	St	10	-	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·6	-1	SE'E	2	mmb	28	92	4	-	-	0	Ci	2	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·6	-1	E	1	bc+	31	97	6	5700	StCu	7	-	7	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·8	-1	SE	1	ffbc	27	97	3	-	-	0	CSt	3	•
London (Kew Obsy.) ...	18	•	•	•	•	•	32	•	•	•	•	•	•	•	1021·4	-1	ENE	1	ffbc	30	92	1	-	-	0	ASt	3	•
Croydon	244	1022·3	-1	S	2	b+	34	92	6	2500	StCu	1	-	1	1021·4	0	SSE	2	bc+	30	97	6	2500	StCu	1	Ci	5	
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·1	-1	SE	2	bc-	30	97	6	-	-	0	ACu	4	2
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·4	-1	SE	3	b	36	92	6	-	-	0	ACu	2	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·0	-2	SSE	1	b	35	97	7	-	-	0	ACu	2	1
Lympne	350	1023·2	0	ESE	3	bc	35	92	6	5700	StCu	1	ACu	3	1022·0	-1	ESE	3	bc+	34	97	6	-	-	0	Ci	5	•
Scilly (St. Mary's) ...	163	1014·6	0	SE	5	c	47	92	7	4000	StCu	10	-	10	1014·3	0	SE'S	3	bc-	48	97	7	4000	StCu	5	-	5	2
Falmouth (Pendennis)	200	1016·2	-1	SE	4	c+	46	85	7	4000	StCu	10	-	10	1015·3	+1	SE	3	cr$_o$	47	85	7	2500	Nb	7	ASt	10	1
Plymouth (Cattewater)	87	•	•	•	•	•	•	•	•	•	•	•	•	•	1016·7	0	E	3	o	43	97	7	1500	St	10	-	10	0
Portland Bill	52	1019·0	-1	SE	3	b	43	75	8	-	-	0	-	0	1017·6	-2	E	3	cr	44	85	8	2500	Nb	9	-	9	1
Southampton (Calshot)	10	1021·2	-1	E	3	b	36	92	6	-	-	0	-	0	1020·1	0	E	4	c+	37	92	6	4000	StCu	4	ACu	8	3
Dungeness	30	1023·1	+1	SSE	2	bc	38	92	8	-	-	0	CiCu	4	1022·1	-1	SSE	2	bc	38	92	8	-	-	0	ACu	4	3
Guernsey (Fort George) ‡	205	1019·8	-1	SE	2	bc-	41	85	5	4000	StCu	6	-	6	1018·7	-1	S	4	bc	42	92	7	2500	StCu	5	ACu	7	6

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h./20th. to 9h./21st. °F.	Temperature. Max. 9h.-17h. 20th. °F.	Rainfall.† Night 17h.-9h. 19th.-20th. mm.	Rainfall.† Day 9h.-17h. 20th. mm.	Sunshine. Sunrise to Sunset. 20th. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	bc	bcc	40	46	-	-	4·1
Douglas (I. o. M.) ...	b	bcc	41	43	1	-	2·2
Llandudno ...	b	bbc	37	54	-	-	6·9
Colwyn Bay ...	b	b	35	54	-	-	7·2
Rhyl	bcb	bbc	34	52	-	-	7·3
Wallasey	focb	bbcb	35	47	Trace	-	3·5
Southport	omo	cbmo	‡35	43	0·2	-	3·8
Blackpool	cbc	bcc	35	44	0·2	-	4·0
Ilkley	mo	feo	32	35	-	-	0·0
Cleethorpes	bo	b	28	48	0·2	-	5·0
Skegness	bxm	b	30	40	Trace	-	3·8
Aberystwyth ...	bc	bc	36	51	-	-	7·8
Bath	mcbob	b	33	45	0·3	-	4·6
Cheltenham‖ ...	bcb	bb	34	40	-	-	5·6
Leamington Spa ...	of	cbf	26	42	-	-	3·5
Lowestoft	b	b	33	43	-	-	7·1
Harwich & Dovercourt	bx	bxm	31	44	-	-	7·4
Maldon	xmb	b	24	45	Trace	-	6·6
Southend	bm$_o$	bm$_o$	34	47	0·3	-	7·7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	c'b	bbcb	36	51	-	-	7·8
Penzance	b	b	44	49	-	-	7·7
Paignton	bx	b	30	48	-	-	6·9
Torquay	cb	b	35	49	-	-	6·7
Jersey	b	b	35	45	-	-	8·0
Weymouth	xb	b	36	45	-	-	7·2
Bournemouth ...	fb	b	28	45	-	-	6·8
Ventnor ...	xb	bx	38	47	Trace	-	7·5
Portsmouth (S'thsea)	b	b	33	45	-	-	7·6
Bognor	b	b	37	43	-	-	7·3
Littlehampton ...	b	b	37	43	0·1	-	7·7
Worthing	b	b	35	43	Trace	-	7·6
Brighton	b	b	38	45	-	-	7·6
Eastbourne	b	b	38	44	-	-	7·9
Hastings‖	xmbb	b	37	42	0·5	-	7·6
Folkestone	xbx	bx	32	45	-	-	7·4
Dover	fb	b	35	45	0·1	-	7·5
Tunbridge Wells ...	b	b	32	45	Trace	-	7·6
Ramsgate	bx	b	36	44	-	-	7·9
Margate	xb	b	35	46	-	-	7·7
Deal	xb	b	35	44	-	-	7·7

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

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

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 12h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24533 Tuesday 22nd January 1929.

Observations at 13h. G.M.T. 21st — 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	State of ground	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1020.3	+4	-	0	cjp	46	92	7	1500	CuNb	5	ASt	10	•	1021.6	+2	-	0	c	44	97	7	1500	Cu	5	ASt	10	•
Stornoway	1019.5	+2	SW	1	bc-	46	75	6	-	-	0	ACu	4	•	1020.5	+2	-	0	b	33	92	6	4000	Cu	2	-	2	0
Wick	1020.3	+1	SW	2	bc	45	85	8	2500	StCu	3	CiSt	5	•	1021.5	+1	NW	1	bc	35	92	8	-	-	0	ACu	3	0
Tiree	1018.9	0	S	3	b-	43	85	6	-	-	0	-	0	0	1019.6	+1	S'E	3	b-	39	85	6	-	-	0	-	0	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.6	•	-	0	b-	32	85	6	1500	St	2	-	2	•
Aberdeen	1021.9	0	SSW	2	b-	42	85	5	-	-	0	ACu	1	1	1022.3	+1	SSE	3	c	41	85	6	2500	StCu	9	-	9	0
Malin Head	1019.0	+1	SSE	2	bc+	40	92	5	4000	Cu	5	ACu	5	•	1019.2	+2	SE	3	b	39	92	5	5700	StCu	1	-	1	0
Renfrew	1020.4	-1	-	0	Fb+	29	97	1	-	-	0	-	0	3	1021.1	+1	ENE	2	fb-	34	85	4	-	-	0	-	0	•
Edinburgh (Inchkeith)	1020.2	0	N	2	mmc	38	92	4	450	St	10	-	10	•	1020.5	+1	NNE	3	mmbc	36	97	4	450	St	6	-	6	1
Leuchars	1021.1	0	E	1	bc-	38	85	6	-	-	0	Ci	3	1	1021.7	+2	E	1	c	38	85	6	2500	StCu	9	-	9	•
Eskdalemuir	1020.1	-1	-	0	b	38	75	7	-	-	0	-	0	3	1022.0	0	-	0	b	27	85	6	-	-	0	-	0	•
Tynemouth	1021.6	-1	S	1	fo-	33	92	3	1500	St	10	-	10	•	1022.2	+1	S	2	ffo	31	97	3	1500	St	10	-	10	1
Blacksod Point	1014.8	0	E	4	b	46	85	7	-	Cu	2	-	2	•	1015.6	0	E	4	bc	45	92	7	•	StCu	4	-	4	5
Donaghadee	1019.8	0	SE	3	mmc	41	92	4	4000	StCu	5	ASt	8	•	1020.2	+1	SE'E	3	mmb	41	85	4	-	-	0	-	0	3
Birr Castle	1016.1	•	SSE	3	c	45	92	7	1500	Cu	4	ASt	9	•	1017.7	•	SE	2	o+	44	92	6	800	St	10	-	10	•
Holyhead	1018.5	0	-	0	b	45	75	6	-	-	0	Ci	1	1	1019.1	+1	-	0	b	40	92	5	-	-	0	Ci	1	1
Liverpool (Bidston)	1019.5	-1	SSE	5	c-	32	97	5	4000	St	9	-	9	•	1020.4	+1	SE'S	4	ffo	33	97 (7 in red)	3	4000	St	10	-	10	•
Chester (Sealand)	1020.0	0	SSE	4	fo-	33	97	4	450	St	10	-	10	1	1020.5	+1	SE	4	fo+	35	97	3	450	St	10	-	10	•
Harrogate	1022.2	0	-	0	FFo	30	97	1	<150	St	10	-	10	•	1022.5	0	-	0	FFo	29	97	1	<150	St	10	-	10	•
Spurn Head	1021.9	0	SE	1	bc	39	85	6	1500	St	4	-	4	•	1021.9	0	N'W	1	Fc+	30	97	1	<150	St	9	-	9	0
Birmingham (Edgbaston)	1021.0	-1	ESE	1	FFo	31	97	1	800	St	10	-	10	3	1022.0	+1	E	1	FFo	33	97	1	<150	St	10	-	10	•
Cranwell	1022.9	-1	SE'E	1	Fo+	30	97	1	<150	St	10	-	10	6	1022.7	+1	-	0	FFbc	28	97	1	<150	St	5	-	5	•
Gorleston	1022.5	0	S'E	1	b	40	85	6	-	-	0	ACu	2	•	1022.8	0	-	0	c	38	92	6	-	-	0	ACu	8	0
Valentia (Cahirciveen)	1012.6	-1	SE'E	3	bc	52	85	8	1500	StCu	5	ACu	6	1	1013.6	+1	SE'E	3	c	50	85	8	1500	St	8	-	8	1
Roches Point	1015.6	0	SSE	3	c	48	97	7	1500	StCu	10	-	10	•	1016.4	+2	SE	3	c	48	97	8	1500	StCu	9	-	9	4
Pembroke (St. Ann's H.)	1017.3	+1	ESE	3	c+	41	97	5	~~800~~ 2500	StCu	9	-	9	•	1018.4	+1	ESE	3	c	42	92	5	~~800~~ 2500	StCu	10	-	10	2
Ross-on-Wye	1020.3	-1	E	2	ffo	33	97	2	<150	St	10	-	10	2	1020.8	+1	ENE	1	ffo	33	97	2	<150	St	10	-	10	•
Leafield	1020.8	0	NE'N	1	mmo	32	92	4	800	St	10	-	10	6	1021.0	+1	NE'E	1	FFo	34	97	1	220	St	10	-	10	•
Winchester (Worthy Dn.)	1019.9	0	E	2	c	41	92	6	800	St	9	-	9	2	1020.5	+2	NE'E	1	od_o	40	97	5	800	St	10	-	10	
S. Farnborough	1020.3	-1	SE	2	ffo	39	97	3	800	St	10	-	10	1	1020.7	+1	ESE	2	odd	39	97	3	800	Nb	10	-	10	•
London (Kew Obsy.)	1020.8	-2	E'N	2	FFo	37	85	1	<150	St	10	-	10	3	1021.3	0	E	2	orr	39	97	1	<150	St	10	-	10	•
Croydon	1021.0	-1	S'E	1	c/f	41	97	5	5700	StCu	5	ASt	9	2	1021.3	+1	-	0	od_o	39	97	3	1500	St	10	-	10	•
Shoeburyness	1022.2	-1	SW	2	c/r	37	92	6	5700	StCu	6	ASt	9	•	1022.0	+1	ESE	1	c+	34	97	6	5700	StCu	5	ACu	8	
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.6	+1	ESE	3	bc	37	97	6	4000	StCu	3	-	3	•
Felixstowe	1022.8	0	SE	1	c	38	97	5	-	-	0	ACu	10	2	1022.4	+1	ESE	1	fb+	37	97	4	-	-	0	ACu	1	2
Lympne	1021.8	-1	SE'E	3	bc/r	41	92	6	2500	Cu	1	ACu	7	2	1021.7	0	ESE	3	b/d	39	92	5	1500	St	10	-	10	•
Scilly (St. Mary's)	1015.0	+1	-	0	b	56	85	7	4000	Cu	2	-	2	•	1016.6	+1	S'E	2	bc+	49	97	6	4000	Cu	6	-	6	1
Falmouth (Pendennis)	1015.9	-1	SE	2	c/r	49	97	6	2500	StCu	8	-	8	•	1017.7	+2	-	0	c+	48	97	7	4000	StCu	8	-	8	0
Plymouth (Cattewater)	1017.0	0	E	3	od_o	46	97	6	220	St	10	-	10	1	1018.4	+2	ESE	3	o	46	97	6	1500	Nb	10	-	10	0
Portland Bill	1017.6	-1	E	2	cT_oT_o	45	92	6	1500	St	9	ASt	10	•	1018.2	+1	ESE	2	od-	45	97	5	1500	St	10	-	10	1
Southampton (Calshot)	1019.6	-2	ESE	4	bc_o	43	85	7	2500	StCu	5	ACu	6	2	1020.1	+2	ESE	3	odd	41	97	4	800	Nb	10	-	10	0
Dungeness	1021.5	-2	SSE	2	bc-	41	85	8	4000	StCu	3	CiCu	7	•	1021.8	0	SSE	1	oT_oT_o	42	92	7	1500	Nb	10	-	10	3
Guernsey (Fort George)	1018.3	-1	S	2	od_od_o	45	97	4	800	St	10	-	10	•	1019.2	+1	SW	3	cd_o	48	97	3	220	St	8	ASt	10	1

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 Hours ended 9h.)	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	cfzff	cffr/o	oFrdof	40	36	35	0.2	1	0.0	•	•	2
Croydon	244	$bcffr_o$	comrff	od, Fof	42	36	36	1	2	0.0	•	•	0
Greenwich (Royal Obsy.)	149	cd_of	crf	$ord_o ogf$	40	36	33	0.3	1	0.0	94	96	2
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	42	36	35	1		0.0	91	91	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	xof	f	•	37	31	-	-	3	•	•	100	•
Kensington Palace	80	bcm	omr	•	46	36	34	0.5	†	•	(At 18h) 82	90	•
Hampstead Observatory	450	•	•	•	38	32	31	1	0.5	0.0	•	99	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
2.3	21st 16h	0.6	22nd 3h

Kew Observatory Max.	Time.	Min.	Time.
2.6	21st 11h	0.1	22nd 5h

Pole Star Record at Greenwich Obsy.

Exposure from 21st 17 h. 45 m. to 22nd 06 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 0	Nil	-
δ Ursae Minoris	13 0	Nil	-

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

Table showing the Greenwich Times of Sunrise, Noon, and Sunset. 22nd & 23rd January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.53 / 7.51	12.5 / 12.5	16.17 / 16.19
Greenwich	7.55 / 7.54	12.12 / 12.12	16.29 / 16.31
Wick	8.42 / 8.40	12.24 / 12.24	16.07 / 16.09
Valentia	8.38 / 8.37	12.53 / 12.53	17.08 / 17.10

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

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

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

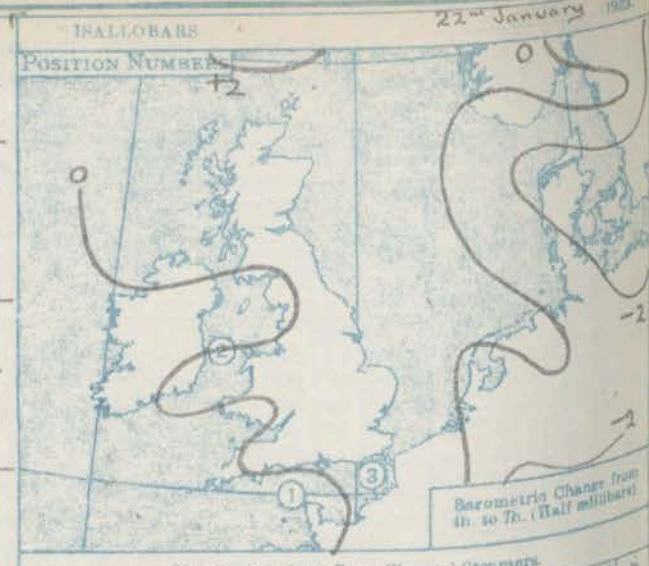
§ Telegraphic Code for Surface Visibility.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 21st	13h.-18h. 21st	18h. 21st to 1h. 22nd	1h.-7h. 22nd	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN on Grass	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm	began.	SUN 21st Hours.
Lerwick	oT_0T_0c	c	cor$_0$r	cor$_0$c	47	41	•	1	<8·00	Tr	<21·00	0·0
Stornoway	cbcz	b-bc	b-bc	b	45	27	•	–	–	–	–	4·0
Wick	b-bc	b-bc	b-bc	c	46	31	•	–	–	–	–	•
Tiree	cbcm$_0$	b	b	b	43	34	21	–	–	–	–	4·8
Nairn	bsz	bcbzx	bbcx	bc	38	28	•	–	–	–	–	5·7
Aberdeen	bofmbz$_0$	bczfcz$_0$	c	co	42	39	37	–	–	–	–	3·2
Malin Head	bbcm$_0$	bcbmm	bm$_0$m$_0$	bm$_0$m$_0$	42	34	•	–	–	–	–	4·1
Renfrew	bxfF	bxFf	bmxc	cmx	34	25	17	–	–	–	–	0·0
Edinburgh (Inchkeith)	omm0	obomm	bcomm	ommm	39	33	29	–	–	Tr	–	6·4
Leuchars	cbxmbc	bcc	cm$_0$	cm$_0$om$_0$	39	34	31	0·1	–	–	–	3·7
Eskdalemuir	bxb	bbxm$_0$	bxm$_0$	bxm$_0$	39	22	19	–	–	–	–	6·9
Tynemouth	bccff	off	oFF	oFF	33	30	29	–	–	–	–	•
Blacksod Point ...	b	b	c	bcb	46	43	•	–	•	–	•	•
Donaghadee	cm$_0$mm	bcbmm	bccm	cm	43	38	•	–	–	–	–	•
Birr Castle	c	com$_0$	om$_0$	c	46	43	42	–	–	–	–	3·1
Holyhead	bbz$_0$	bz$_0$	bbcbm	ifb	47	34	29	–	–	0·1	–	7·1
Liverpool (Bidston) ...	am$_0$c	com$_0$f	ofe	ofe	33	33	33	–	–	Tr	–	0·0
Chester (Sealand) ...	ofm	om	35oFF	offe	33	34	33	–	–	–	–	0·0
Harrogate	oFF	oFF	oFFd$_0$	oFFx	30	27	27	–	–	Tr	<21·00	0·0
Spurn Head	bbc	bczffb	Ffcx	oFfod$_0$x	39	28	•	Tr	14·30	Tr	<21·00	6·1
Birmingham (Edgbaston)	oFF	FF	oFfF	oFF	33	31	29	–	–	0·3	–	0·0
Cranwell	ocoFx	oFx	bcPx	oFxd$_0$	30	26	26	–	–	0·3	02·30	0·0
Gorleston	bm$_0$	bccm$_0$	cbcm$_0$	bcoxffB	41	31	25	–	–	0·2	–	4·7
Valentia (Cahireiveen)	cid$_0$c	bccv	bccp$_0$	c	52	49	46	Tr	9·00	Tr	<21·00	0·4
Roches Point	cid$_0$c	c	c	c	48	46	•	Tr	11·00	–	–	•
Pembroke (St. Ann's H.)	cbccm$_0$	cm	oFf	oFf	43	40	•	–	–	–	–	0·0
Ross-on-Wye	offc	off	ofFe	FFe	33	33	32	Tr	–	0·2	–	0·0
Leafield	bm cf	omfF	oFF	oFF	35	32	32	Tr	–	0·1	–	0·0
Winchester (Worthy Dn.)	bcxcm$_0$	om$_0$omd$_0$	od$_0$d$_0$m$_0$	offod$_0$d$_0$	42	35	34	2	9·00	0·4	<21·00	0·0
S. Farnborough ...	beforfof	offrdd	orrfe	oFeFe	41	36	35	1	9·00	2	<21·00	0·0
London (Kew Obsy.) ...	cfhoffr$_0$	cffr$_0$r	oFrdo	oFof	40	36	35	0·2	11·00	1	<21·00	0·0
Croydon	bcffT_0	comrd$_0$f	od$_0$Fe	oFef	42	36	36	1	11·00	2	<21·00	0·0
Shoeburyness	bcircm$_0$	cm$_0$	omf	oFe	39	33	34	0·6	12·30	Tr	–	0·0
Clacton-on-Sea ...	bbcm	bcmo	bcmcm	cmogf	40	36	32	1	14·30	–	–	1·4
Felixstowe	bm$_0$bc	cm$_0$rcm	cm	ofe	40	34	31	1	15·30	Tr	–	2·2
Lyympne	bccrm$_0$	cm$_0$od$_0$	om$_0$rndF	od$_0$F	41	39	37	2	11·00	1	22·00	1·5
Scilly (St. Mary's) ...	bcp$_0$b	bc	bcd$_0$c	cbc	56	46	•	0·1	<8·00	0·3	<21·00	5·5
Falmouth (Pendennis)	cr$_0$m$_0$r	cbc	om$_0$r$_0$	om$_0$rFx	52	47	•	2	<8·00	2	<21·00	1·7
Plymouth (Cattewater)	ocr$_0$ddm	od$_0$cm$_0$	omoc	ocr$_0$	47	44	41	1	9·00	0·1	04·30	0·0
Portland Bill	cor$_0$T$_0$z	oddm	oDoF	oF	46	41	•	1	11·00	Tr	<21·00	•
Southampton (Calshot)	cd$_0$orrcm	cir$_0$od$_0$Dm	oddmfs	oFeFe	43	38	38	3	<8·00	0·3	<21·00	2·2
Dungeness	bccrc	coT$_0$T$_0$	or$_0$Dm	oFf	43	40	•	2	11·00	V	<21·00	•
Guernsey	bccr$_0$omod$_0$mir	cid$_0$irbcm	bccm$_0$		48	46	•	3	11·00	0·4	<21·00	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.		Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
2	21st	10h	Cambria	SSW	1	bc	46	47	8
3	21	24	Brighton	SW	2	c/r	44	45	6

GENERAL INFERENCE.

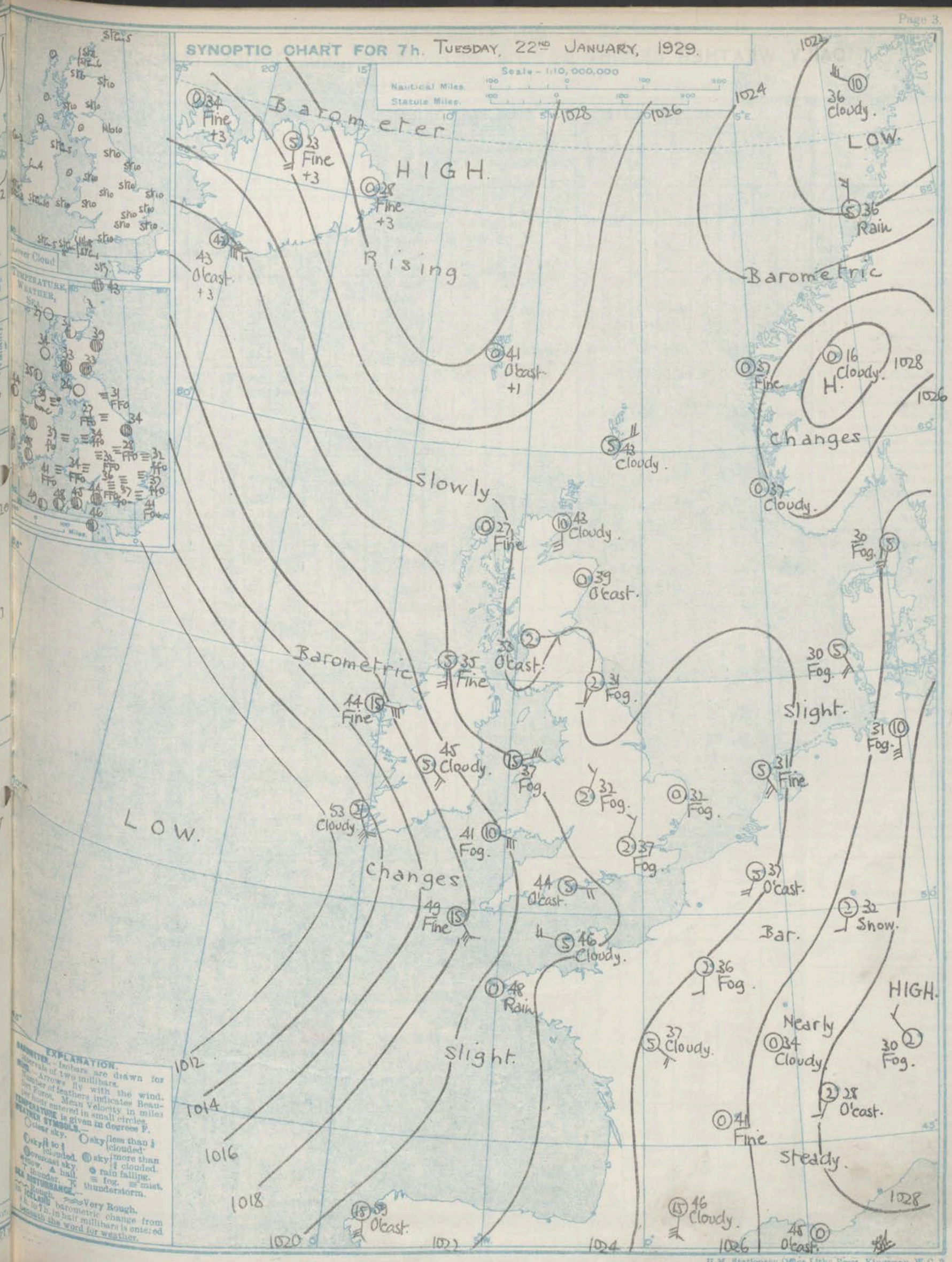
An anticyclone extending from north of Scotland to Arctic regions continues to develop while a deep depression far out on the Atlantic will remain almost stationary. Quiet weather with much fog will continue over a large part of Great Britain but in southwest districts there will be fresh southeast winds and mild rather unsettled weather.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 22nd January, 1929.	Further Outlook.
1. S.E. England 2. E. England	Wind variable, light; dull, some fog; perhaps local drizzle; moderate or rather low temperature.	Changes are likely to be gradual in character. Mainly dull to foggy and rather cold over most of Great Britain.
3. E. Midlands 4. W. Midlands	Wind variable, light; widespread fog; cold, with frost locally;	
5. S.W. England	Wind S.E, moderate or fresh; cloudy, occasional rain; mild.	
6. South Wales 7. North Wales	Wind S.E. light or moderate; cloudy; local mist or fog; moderate temperature.	
8. N.W. England 9. N. Midlands 10. N.E. England	As 2 - 4	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13 A. W. Scotland 13 B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Wind S.E. or variable, light; mainly fair; local fog; rather cold, with frost locally.	
17. N.W. Ireland	As 5.	
18. N.E. Ireland 19. S.E. Ireland	As 6 - 7.	
20. S.W. Ireland	As 5.	

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

‡ For code see page 1

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



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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION Tuesday 22nd January 1929. No. 22.

Stations	Height above M.S.L. in feet	1h. G.M.T. 22nd Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10	7h. G.M.T. 22nd Barom. at M.S.L. mb.	Change in 3 Hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	54	1023.3	+2	–	0	or₀f₀	44	97	7	1500	Nb	10	–	10	1024.3	+2	E'N	2	c –	43	85	7	1500	StCu	6	ASt	8	•
Stornoway	59	1022.0	+2	–	0	b	•	•	8	•	•	•	•	0	1022.5	+1	–	0	b	27	92	7	–	–	0	–	0	0
Wick	81	1023.5	+2	S	3	c	40	92	8	2500	StCu	8	–	8	1024.7	+1	S	3	c	43	75	8	1500	StCu	10	–	10	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.1	+1	S	2	b	34	92	6	–	–	0	–	0	0
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.1	•	–	0	bc+	32	85	7	1500	St	6	–	6	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.9	+1	–	0	o	39	75	7	1500	St	10	–	10	0
Malin Head	61	1020.4	0	SE	3	b	38	92	5	–	–	0	ACu	1	1021.7	+1	S	2	b	35	97	5	–	–	0	ACu	1	0
Renfrew	56	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.2	+1	E	1	o	33	92	5	2500	St	10	–	10	•
Edinburgh (Inchkeith)	100	1022.8	+1	NE	2	mmo	34	97	4	450	St	10	–	10	1023.8	+1	E	1	o	33	97	5	800	St	10	–	10	0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.1	+1	ENE	1	o	35	97	5	1500	St	10	–	10	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.6	0	N'W	2	b	26	85	6	–	–	0	–	0	•
Tynemouth	67	1023.2	+1	SSW	1	FFo	30	97	1	1500	St	10	–	10	1024.3	+1	SW	1	FFo	31	97	1	1500	Nb	10	–	10	1
Blacksod Point	18	1016.3	+1	E	4	c	44	85	7	•	–	0	ASt	8	1016.3	0	ESE	4	bc	44	85	7	•	Cu	3	–	3	4
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.2	0	SE'E	3	mmc	39	92	4	4000	StCu	5	ASt	8	3
Birr Castle	178	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.4	•	ESE	2	c –	45	92	7	1500	Cu	4	ASt	9	•
Holyhead	20	1020.8	+1	SE	1	fb –	35	97	4	–	–	0	–	0	1021.3	0	E'N	4	fb	37	97	3	–	–	0	–	0	1
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.5	0	SSE	4	ffo	34	97	2	800	St	10	–	10	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.1	+1	SE'S	2	ffo	35	97	3	450	St	10	–	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.6	+1	–	0	FFo	27	97	1	<150	St	10	–	10	•
Spurn Head	39	1022.4	0	NW'W	2	FFo	33	97	1	<150	St	10	–	10	1023.2	0	NNW	2	od₀	34	97	5	1500	St	10	–	10	0
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.1	+1	NE	1	FFo	32	97	1	<150	St	10	–	10	•
Cranwell	236	1023.1	+1	NW'N	1	FFc	28	97	1	<150	St	9	–	9	1024.3	+1	N'W	1	FFo	28	97	1	<150	St	10	–	10	•
Gorleston	14	1022.6	0	–	0	bc	37	97	5	–	–	0	ACu	3	1023.5	0	–	0	ffo	32	97	2	800	St	10	–	10	0
Valentia (Cahirciveen) ℙ	30	1014.7	0	SE	3	c	49	97	8	–	StCu	10	–	10	1012.6	–1	SE'S	5	c	53	85	8	2500	St	9	–	9	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.5	0	SE	3	c	48	97	8	1500	StCu	10	–	10	4
Pembroke (St. Ann's H.)	150	1020.0	+1	ESE	1	ffo	42	97	2	450	St	10	–	10	1019.8	0	ESE	3	FFo	41	97	1	220	St	10	–	10	1
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.1	0	E	2	FFo	34	97	1	220	St	10	–	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.2	+1	NNE	1	FFo	33	97	1	220	St	10	–	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.4	+1	NNW	1	od₀d₀	36	97	2	<150	St	10	–	10	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.8	+1	–	0	FFO	36	97	1	<150	St	10	–	10	•
London (Kew Obsy.)	18	•	•	•	•	•	39	•	•	•	•	•	•	•	1023.2	+1	N'E	1	fo –	37	97	2	220	St	10	–	10	•
Croydon	244	1022.0	+1	–	0	FFO	37	97	1	<150	St	10	–	10	1023.2	+1	–	0	FFO	37	97	0	<150	St	10	–	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.1	0	–	0	ffo	36	97	2	800	Nb	10	–	10	•
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.0	+1	ESE	3	ffo	37	97	2	4000	St	10	–	10	1
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1023.1	+2	N	2	FFO	35	97	1	<150	St	10	–	10	0
Lympne	350	1021.5	0	E'S	2	od₀	40	97	2	<150	St	10	–	10	1021.9	0	N	2	od₀f	40	92	2	<150	St	10	–	10	•
Scilly (St. Mary's)	163	1017.5	0	S'E	4	c	50	97	7	4000	Cu	8	–	8	1016.9	–1	SE	4	bc	49	97	8	4000	StCu	5	–	5	1
Falmouth (Pendennis)	200	1019.1	+1	–	0	c	48	97	5	2500	StCu	10	–	10	1019.3	0	ESE	3	bc –	48	97	7	4000	StCu	5	ASt	7	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.9	0	E	4	c/r	45	97	7	1500	Nb	9	–	9	0
Portland Bill	32	1020.5	+1	E	1	FFo	44	97	1	220	St	10	–	10	1021.3	0	E	2	off	44	97	5	1500	St	10	–	10	2
Southampton (Calshot)	10	1021.3	+1	N'W	2	FFo	40	97	0	<150	St	10	–	10	1022.7	+1	NNW	2	Fo –	39	97	1	<150	St	10	–	10	0
Dungeness	20	1022.0	0	SSW	1	mmo	43	97	4	450	St	10	–	10	1022.7	+1	N	1	Fo+	41	97	1	<150	St	10	–	10	2
Guernsey (Fort George) ℙ	295	1021.2	+1	SSW	1	bc+	47	97	6	4000	StCu	6	–	6	1021.8	0	~~W'N~~ S'E	2	c+	46	97	6	800	St	7	ACu	8	1

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21st January

Stations (1)	Weather Forenoon (2)	Weather Afternoon (3)	Temperature Min. 9h. 20th to 9h. 21st (4) °F.	Temperature Max. 9h.–17h. 21st (5) °F.	Rainfall† Night 17h.–9h. 20th–21st (6) mm.	Rainfall† Day 9h.–17h. 21st (7) mm.	Sunshine Sunrise to Sunset 21st (8) hr.
Berwick-on-Tweed	bc	bc	30	34	–	–	5.9
Douglas (I. o. M.)	o	o	35	37	–	–	0.0
Llandudno	b	b	34	46	–	–	7.0
Colwyn Bay	b	b	29	41	–	–	7.1
Rhyl	b	bc	29	46	–	–	7.0
Wallasey	fo	fo	30	37	–	–	0.0
Southport	ox	of	*30	36	–	–	0.0
Blackpool	om	o. off	29	33	–	–	0.0
Ilkley	om	ofe	27	32	–	–	0.0
Cleethorpes	bf	ff	25	37	–	–	1.2
Skegness	bx bc	b	30	43	0.3	Trace	6.3
Aberystwyth	bc	bc	35	45	–	–	2.7
Bath	mpoc	mr₀	29	37	–	0.3	0.0
Cheltenham‖	exmo	omc	32	38	–	–	0.0
Leamington Spa	om	o	25	32	–	–	0.0
Lowestoft	b	bbcom	35	42	–	–	4.5
Harwich & Dovercourt	xbcm	ocdbcf	34	40	–	Trace	2.0
Maldon	xbc	d₀om	27	38	Trace	Trace	0.5
Southend	cfr₀	cfd	32	40	Trace	0.4	0.1

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ocbc	c	36	48	0.1	–	0.6
Penzance	oc	cbcm	47	51	1	–	1.6
Paignton	oup	orpfe	39	46	Trace	1	0.0
Torquay	p₀oe	or₀pofe	43	46	Trace	2	0.0
Jersey	cr	r	36	48	0.4	11	0.0
Weymouth	m₀c	d₀cfe	37	45	0.4	0.3	0.0
Bournemouth	fbcd	f	31	45	1	1	1.6
Ventnor	xdbc	odm	38	47	0.3	1	1.9
Portsmouth (S'thsea)	bbc	cofr	33	47	2	1	1.9
Bognor	cbc	rro	35	44	1	0.3	1.4
Littlehampton	cpcbc	c.cr	34	45	1	0.6	1.5
Worthing	r₀cbc	cod	35	45	1	0.3	2.2
Brighton	rcodo	or	37	46	0.5	1	0.0
Eastbourne‖	r₀cbc	bcoir	34	45	0.2	1	2.2
Hastings‖	xmrbc	bcod₀	37	44	0.4	2	2.1
Folkestone	xcorm	cm₀	35	43	–	3	1.1
Dover	bccor	roc	36	42	Trace	2	0.9
Tunbridge Wells	orOc	co	30	43	–	1	0.3
Ramsgate	bcor	rc	36	41	Trace	1	0.6
Margate	xbccr	cbc	37 (34)	42	–	1	0.9
Deal	coro	cbcc	34	41	–	3	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. and at Guernsey, the sunshine readings are from an auxiliary station. ‡ For code see page 1. †‡ See footnote page 1.

‖ At stations marked thus the maximum temperature is for the period 7h.–17h., the minimum for the period 21h.–9h. ✠ 22 9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24534 Wednesday, 23rd January 1929. Page 1.

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

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1026·7	+2	NE	2	bc	44	75	8	1500	StCu	5	-	5	*
Stornoway	1024·7	+1	SE	2	b	41	85	7	-	-	0	-	0	*
Wick	1026·3	+2	S	3	c	44	75	8	1500	StCu	6	ASt	10	*
Tiree	1023·5	+2	S	3	b	42	75	7	-	-	0	-	0	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1026·2	+1	ESE	1	o	40	86	5	1500	St	10	-	10	1
Malin Head	1022·9	+2	SE	2	ct	40	92	5	5700	StCu	5	ACu	8	*
Renfrew	1025·3	+1	E	3	bc	36	85	5	4000	Cu	6	-	6	3
Edinburgh (Inchkeith)	1026·0	+2	NE	3	o	33	97	5	800	St	10	-	10	*
Leuchars	1026·0	+2	-	0	c	36	92	5	2500	St	9	-	9	1
Eskdalemuir	1025·5	0	NNE	2	b	31	85	6	-	-	0	-	0	3
Tynemouth	1025·4	+1	SW	1	FFo	31	97	1	800	St	10	-	10	*
Blacksod Point	1017·6	+1	ESE	4	c	47	85	7	*	-	0	ASt	10	*
Donaghadee	1023·2	+1	E	3	mmo	39	92	4	1500	St	10	-	10	*
Birr Castle	1018·7	*	SE	3	c	47	85	6	1500	Cu	1	ASt	10	*
Holyhead	1022·0	0	NE	1	b	42	92	6	-	-	0	CiSt	1	1
Liverpool (Bidston)	1023·2	0	SE	4	ffo	36	97	2	1500	St	10	-	10	*
Chester (Sealand)	1023·1	0	SE'S	3	fo-	37	92	4	800	St	10	-	10	1
Harrogate	1025·8	+2	-	0	FFo	28	97	1	<150	St	10	-	10	*
Spurn Head	1024·5	0	NNW	1	Fot	37	92	1	<150	St	10	-	10	*
Birmingham (Edgbaston)	1025·0	0	SE	1	FFo	33	97	1	<150	St	10	-	10	3
Cranwell	1025·5	+1	N'W	1	FFo	31	92	1	220	St	10	-	10	6
Gorleston	1024·1	+1	N'W	1	fo-	39	97	3	1500	St	10	-	10	*
Valentia (Cahirciveen)	1012·5	-1	E'S	6	cr₀r₀	52	85	7	800	St	10	-	10	1
Roches Point	1016·9	-1	SE	4	c	49	92	8	1500	StCu	10	-	10	*
Pembroke (St. Ann's H.)	1020·6	+1	ESE	3	c-	43	97	5	800	StCu	6	CiSt	8	*
Ross-on-Wye	1023·4	0	E	3	ffc	38	97	3	450	St	9	-	9	2
Leafield	1024·3	+2	-	0	mmo	35	97	4	220	St	10	-	10	3
Winchester (Worthy Dn.)	1023·6	0	NNE	2	fc-	40	97	4	1500	St	9	-	9	2
S. Farnborough	1024·0	0	NE	1	ffo	38	97	2	220	St	10	-	10	2
London (Kew Obsy.)	1024·4	0	NNE	1	ffo	37	92	3	1500	St	10	-	10	2
Croydon	1024·3	0	ENE	2	Fo-	37	97	1	<150	St	10	-	10	2
Shoeburyness	1024·4	+1	N'W	2	ffo	35	97	3	800	St	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1024·4	+1	NNW	1	ffo	37	97	2	<150	St	10	-	10	2
Lympne	1023·6	0	N	3	fc-	38	97	3	220	St	9	-	9	2
Scilly (St. Mary's)	1016·4	-1	SE	6	orr	49	97	5	2500	Nb	10	-	10	*
Falmouth (Pendennis)	1019·3	-1	ESE	4	cr-	48	97	7	2500	Nb	6	ASt	10	*
Plymouth (Cattewater)	1021·2	0	E	4	od₀	45	97	4	<150	St	10	-	10	1
Portland Bill	1022·1	+1	E	3	mmc	45	97	4	2500	StCu	5	ACu	8	*
Southampton (Calshot)	1023·1	-1	E	2	fbc-	42	92	3	<150	St	7	-	7	2
Dungeness	1023·3	+2	NNE	2	FFo	41	85	1	<150	St	10	-	10	*
Guernsey (Fort George)	1022·2	-1	SE'S	2	c	45	97	6	800	St	6	ASt	10	*

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

Stations	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1027·6	+1	NE	2	bc	43	75	8	1500	StCu	6	-	6	*
Stornoway	1025·3	+2	SE	2	b	38	92	7	-	-	0	-	0	0
Wick	1027·3	+1	SE	2	c	43	75	8	2500	StCu	4	ACu	8	1
Tiree	1024·0	0	SE	2	b-	34	85	7	-	-	0	-	0	0
Nairn	1026·3	*	-	0	ct	36	85	6	1500	St	8	-	8	*
Aberdeen	1026·8	+1	N	1	o	39	85	6	1500	St	10	-	10	0
Malin Head	1022·6	0	SE	1	b	38	92	5	5700	StCu	1	-	1	0
Renfrew	1025·4	0	E	3	bc	35	85	5	1500	St	3	-	3	*
Edinburgh (Inchkeith)	1025·9	0	ESE	2	o	32	97	5	800	St	10	-	10	0
Leuchars	1026·4	+1	W	1	o	36	92	5	1500	St	10	-	10	*
Eskdalemuir	1026·4	0	N	4	mmo	27	97	4	<150	St	10	-	10	*
Tynemouth	1026·1	+1	WSW	1	fo-	33	97	2	1500	Nb	10	-	10	1
Blacksod Point	1018·0	+1	ESE	4	c	47	85	7	*	StCu	8	-	8	4
Donaghadee	1023·2	0	E	3	b-	40	85	7	4000	StCu	1	-	1	3
Birr Castle	1019·1	*	SE	4	c	45	92	7	1500	Cu	3	ASt	9	*
Holyhead	1020·7	-1	E	4	bm	41	92	4	-	-	0	Ci	1	2
Liverpool (Bidston)	1023·1	+1	SE'E	4	ffo	36	97	3	1500	St	10	-	10	*
Chester (Sealand)	1023·4	0	SE	3	fo-	37	92	4	800	St	10	-	10	*
Harrogate	1025·9	0	-	0	od₀d₀	30	97	1	<150	St	10	-	10	*
Spurn Head	1024·4	0	NNE	2	od₀d₀	37	97	6	1500	St	10	-	10	0
Birmingham (Edgbaston)	1024·6	-1	E	2	FFo	34	97	1	<150	St	10	-	10	*
Cranwell	1025·5	0	-	0	ffo	32	97	2	220	St	10	-	10	*
Gorleston	1024·4	0	N'E	2	o	39	92	5	1500	St	10	-	10	0
Valentia (Cahirciveen)	1014·9	+5	N	2	cr₀r₀	48	97	7	450	St	10	-	10	3
Roches Point	1015·1	-1	SE	4	orr	49	97	7	1500	Nb	10	-	10	4
Pembroke (St. Ann's H.)	1018·7	-3	ESE	4	mmc	44	92	4	800	StCu	6	CiSt	8	2
Ross-on-Wye	1023·2	0	E	2	ffo	36	97	3	220	St	10	-	10	*
Leafield	1024·0	0	ENE	2	ffo	33	97	2	220	St	10	-	10	*
Winchester (Worthy Dn.)	1023·6	+1	NE	2	ffo	38	92	3	450	St	10	-	10	
S. Farnborough	1024·0	0	NE	2	ffo	36	97	2	220	St	10	-	10	*
London (Kew Obsy.)	1024·3	0	NE	2	fo-	36	92	3	1500	St	10	-	10	*
Croydon	1024·2	0	E'N	2	od₀d₀	36	97	2	<150	St	10	-	10	*
Shoeburyness	1024·3	0	NNE	1	ffo	35	97	3	800	St	10	-	10	
Clacton-on-Sea	1024·3	0	N	2	ffo	36	97	3	2500	St	10	-	10	1
Felixstowe	1024·3	0	-	0	ffo	36	97	2	<150	St	10	-	10	0
Lympne	1024·2	+1	N	2	fot	36	97	3	<150	St	10	-	10	*
Scilly (St. Mary's)	1015·8	+1	NW	5	orr	49	97	5	2500	Nb	10	-	10	5
Falmouth (Pendennis)	1017·1	-2	SE'S	4	orr	48	97	6	1500	Nb	10	-	10	4
Plymouth (Cattewater)	1019·3	-2	SE	4	or₀r₀	47	97	6	450	Nb	10	-	10	0
Portland Bill	1021·2	-1	ENE	4	ffo	45	97	2	450	St	10	-	10	2
Southampton (Calshot)	1023·5	0	E'N	2	ffo	41	92	3	<150	St	10	-	10	0
Dungeness	1023·6	+1	NNE	1	fot	40	92	3	450	St	10	-	10	2
Guernsey (Fort George)	1022·2	0	SSE	3	or₀r₀	45	97	5	800	Nb	10	-	10	3

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

Station	Height above M.S.L. in feet.	Weather Morning	Weather Afternoon	Weather Night	Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs.	Humidity 18h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 Hours ended 9h.											
Kew	18	offg	ogff	ofeld₀	38	35	34	-	Tr	0·0	*	*	3
Croydon	244	oFFe	oFfd₀	oFd₀	38	35	34	0·1	0·4	0·0	*	*	2
Greenwich (Royal Obsy.)	149	offo	offe	offd Ind	38	35	33	Tr	0·3	0·0	94	94	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	39	36	34	-	-	0·0	89	87	*
Regent's Pk. (Botanic Gdns.)	166	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	o	c	*	36	35	-	-	Tr	*	*	98	*
Kensington Palace	80	om	om	*	37	35	34	-	0·2	*	(At 18h) 99	90	*
Hampstead Observatory	450	*	*	*	35	31	31	Tr	0·2	0·0	*	97	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ending 7h. G.M.T. 23rd

	Max.	Time.	Min.	Time.
South Kensington	2·0	22nd 11h	0·3	23rd 4h
Kew Observatory	1·0	22nd 20h	0·1	23rd 6h

POLE STAR RECORD at Greenwich Obsy.

Exposure from 22nd 17 h. 45 m. to 23rd 06 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 00	Nil	-
δ Ursae Minoris	13 00	Nil	-

CODE FOR STATE OF GROUND.
0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost at 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. 22-23 January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·51	12·5	16·19
	7·50	12·5	16·21
Greenwich	7·54	12·12	16·31
	7·52	12·12	16·32
Wick	8·40	12·24	16·09
	8·38	12·25	16·12
Valentia	8·37	12·53	17·10
	8·35	12·53	17·12

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

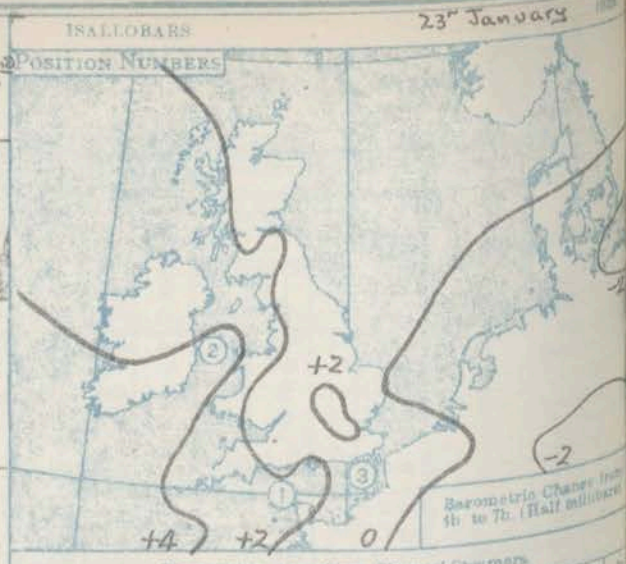
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m.	

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 22nd	18h.-18h. 22nd	18h. 22nd to 1h. 23	1h.-7h. 23rd	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN on Grass	RAINFALL.† Day. 7h.-18h. mm	began.	Night. 18h.-7h. mm.	began.	SUN 22nd Hours.
Lerwick	cbc	bccbc	c	cbc	45	36	•	-	-	-	-	0.3
Stornoway	bz	bz	b	b	41	36	•	-	-	-	-	5.2
Wick	c	c	cp₀r	cp₀rc	44	41	•	-	-	0.1	24.00	•
Tiree	b	b	b	b	42	30	16	-	-	-	-	6.3
Nairn	bcm	bcmc	cmbc	bc	36	33	•	-	-	-	-	3.5
Aberdeen	ofmz₀	oz₀	ozc	c	40	36	31	-	-	-	-	0.0
Malin Head	cbccm₀m₀	cbcbm₀m₀c	bm₀	bm₀z₀	42	32	•	-	-	-	-	0.7
Renfrew	omfbcz₀	bccz₀	cm₀	om₀	36	34	32	-	-	-	-	0.0
Edinburgh (Inchkeith)	om₀mm	om₀m₀	om₀m₀	om₀c	34	32	32	-	-	-	-	0.0
Leuchars	ocm₀	cm₀omw	om₀cm₀	cm₀	37	35	34	-	-	-	-	0.0
Eskdalemuir	bxbm₀	bofom	om₀m₀	cm₀	32	26	24	-	-	-	-	5.8
Tynemouth	oFF	oFFid₀	OFFid₀	o	34	33	32	Tr	17.30	0.5	<21.00	•
Blacksod Point ...	oc	c	cb	bc	48	40	•	-	•	-	•	•
Donaghadee	comm	cmmbc	cbcc	cbcc	41	38	•	-	-	-	-	•
Birr Castle	cm₀	c	com	om	47	39	34	-	-	-	-	0.0
Holyhead	fbm₀	bm₀	bmmw	bmm₀w	45	36	34	-	-	0.1	-	7.1
Liverpool (Bidston) ...	oFfε	offε	ofe	ofe	36	32	32	Tr	-	Tr	-	0.0
Chester (Sealand) ...	offbom	omf	omd₀	d₀d₀f	37	33	32	-	-	Tr	22.00	0.0
Harrogate	oFF	oFFd₀	OFFd₀d₀	oid₀oc	30	30	30	Tr	16.30	0.6	<21.00	0.0
Spurn Head	omoFf	offod₀	od₀c	c	38	35	•	Tr	18.00	0.2	<21.00	0.0
Birmingham (Edgbaston)	FFoε	FFoε	Ffe	fFe	34	31	31	0.1	-	0.2	-	0.0
Cranwell	oFx	oFd₀	ofd₀	ofd₀	32	31	32	0.2	13.30	0.4	<21.00	0.0
Gorleston	offεx	fomm	om	oc	39	37	36	-	-	-	-	0.0
Valentia (Cahirciveen)	cr₀d	crr	cr₀crc	c	54	46	44	7	9.00	2	<21.00	0.0
Roches Point	c	corr	orrc	cz₀	50	46	•	4	14.30	8	<21.00	•
Pembroke (St. Ann's H.)	oFcm	cbccm	cor₀r₀m	or₀r₀m	44	39	•	-	-	4	<21.00	1.3
Ross-on-Wye	oFofof	off	ofd₀f	offd₀	(38)	33	33	Tr	-	0.2	<21.00	0.1
Leafield	ofd₀F	offε	od₀	oid₀	35	31	31	0.1	9.00	0.3	<21.00	0.0
Winchester (Worthy Dn.)	od₀ffcm	off	offs	offd₀m	41	34	34	0.1	18.00	0.1	05.30	0.1
S. Farnborough ...	ofed₀	ofε	ofed₀f	ofd₀ofd₀	38	34	34	0.2	9.00	0.2	22.00	0.0
London (Kew Obsy.) ...	offg	ogff	ofe	cid₀	38	35	34	-	-	Tr	-	0.0
Croydon	oFFe	orfd₀	oFd₀	oFd₀	38	35	34	0.1	17.30	0.4	<21.00	0.0
Shoeburyness	off	iffε	oF	oFe	37	35	34	Tr	-	1	-	0.0
Clacton-on-Sea ...	ogf	ogfs	ogfe	ogfe	37	36	35	0.1	14.30	1	<21.00	0.0
Felixstowe	ofε	ofε	ofe	ofem	38	34	36	Tr	-	Tr	-	0.0
Lympne	od₀f	cfmof	oF	oF	40	35	35	Tr	18.00	Tr	<21.00	0.0
Scilly (St. Mary's) ...	bcorr	orr	bcb	bbcb	51	45	•	12	9.00	3	<21.00	0.0
Falmouth (Pendennis)	bcodcr	corrm₀	orm₀bc	bcor₀	48	45	•	6	9.00	13	<21.00	0.0
Plymouth (Cattewater)	cm₀od₀	omd₀r₀	omrr	omrrc	48	41	41	2	11.00	22	<21.00	0.0
Portland Bill	ocimm	cifof	oFomom₀	ofodmom	45	39	•	-	-	Tr	01.30	•
Southampton (Calshot)	oFebcf	cff	ofed₀d₀	omid₀	44	38	37	Tr	-	Tr	04.30	0.9
Dungeness	oFf	ofmf	offom₀	czm	43	37	•	-	-	0.3	<21.00	•
Guernsey	cir₀m₀	crrr₀m₀	orrm₀	orrir₀m₀	46	43	•	1	9.00	11	<21.00	0.0

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



Observations from Cross Channel Steamers.

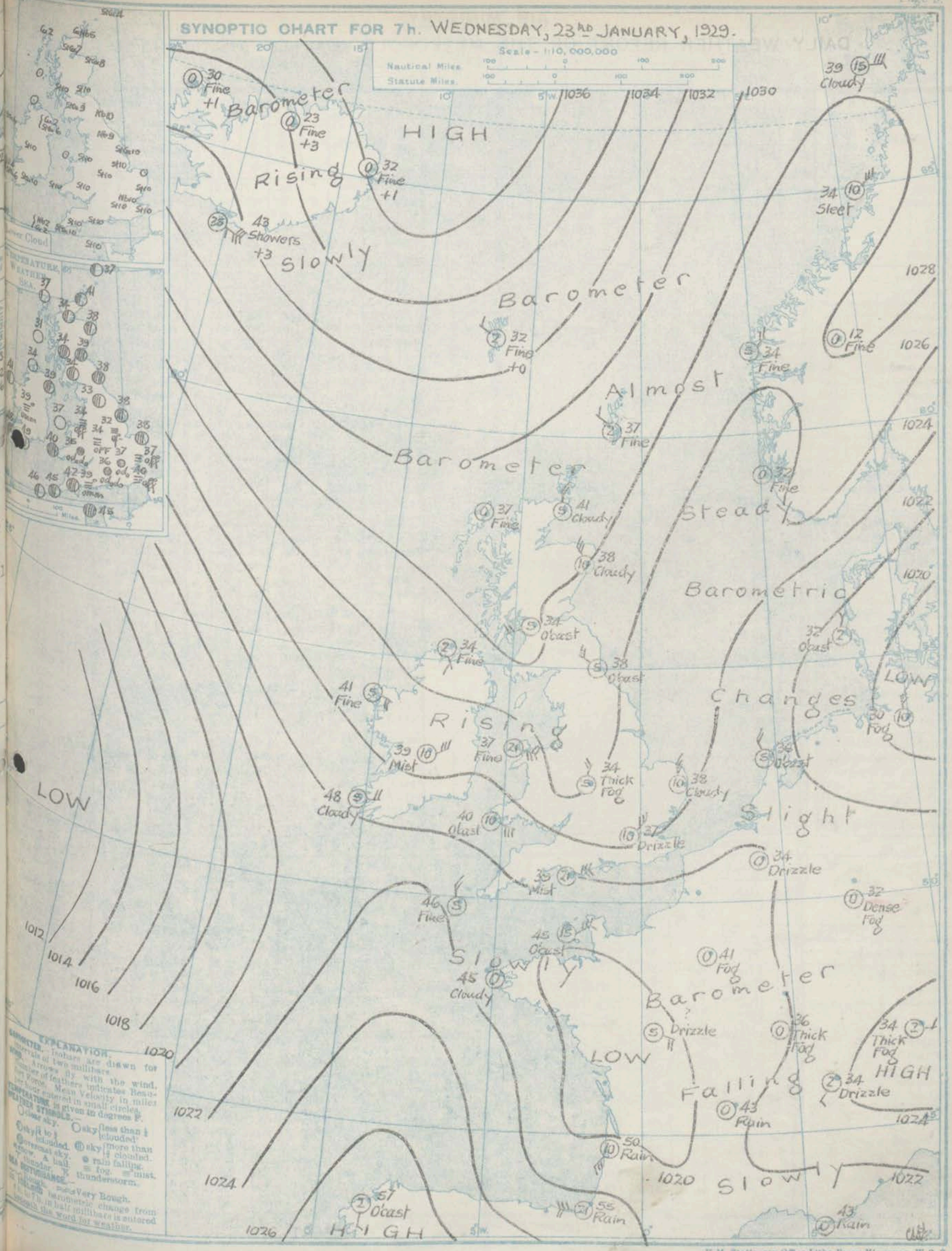
Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	22nd 10h	Cambria	E'N	2	fo+	44	48
1	22nd 10h	St Julien	E	3	fo-	48	48
3	23h 2h	Arundel	NE	4	bcff	43	44

GENERAL INFERENCE.

High pressure continues from beyond the Arctic Circle across the British Isles southwards to Spain and pressure is now rising decidedly westward of Ireland. Mainly fair weather is probable in the north, and conditions will tend to improve in the south after slight rain at first in eastern districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 23rd January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Light to moderate winds between N. and E, mainly cloudy, occasional local drizzle at first, some mist with local fog, rather low or moderate temperature, local night frost.	None issued.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate S.E. to E. winds, cloudy, brighter periods, some mist or local fog, rather low or moderate temperature, local night frost.	
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Northerly winds, light or moderate, mainly cloudy, local mist or fog, rather low or moderate temperature; night frost inland.	
13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland	Light or moderate S.E. winds, mainly fair, local mist or fog, rather low or moderate day temperature, night frost.	
15. N.E. Scotland 16. Orkneys and Shetlands 17. N.W. Ireland	Light N. winds varying bright and cloudy periods, local mist or fog, rather low or moderate day temperature; night frost.	SCR
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind between S.E. and E, mainly fair, mist locally; moderate temperature; local night frost inland.	

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday 23rd January 1929. No. 23.

Observations at 1h. G.M.T. 23rd

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	54	1028·1	+1	N	2	c+	40	75	8	1500	StCu	4	ASt	9	*
Stornoway	30	1027·6	+2	E	3	b-	*	*	8	*	*	*	*	2	0
Wick	81	1028·7	+2	ESE	2	c/pc	42	85	8	1500	Nb	5	ACu	10	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	83	1025·5	+3	SSE	1	b	38	92	5	-	-	0	-	0	*
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1027·4	+1	ESE	1	o	36	97	5	800	St	10	-	10	*
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1025·2	+1	NW	2	o/f	36	97	6	1500	Nb	10	-	10	*
Blacksod Point ...	18	1021·7	+2	ESE	2	bc	43	85	7	-	Cu	3	-	3	*
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1022·1	+1	E	6	mmb	38	97	4	-	-	0	-	0	*
Liverpool (Bidston) ...	182	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1025·4	0	NNW	1	c	36	97	7	4000	StCu	10	-	10	*
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	236	1025·9	0	NNE	2	od$_0$	33	97	3	450	St	10	-	10	*
Gorleston	14	1024·8	0	N	2	o	38	92	6	2500	St	10	-	10	0
Valentia (Cahirciveen) ‖	30	1018·8	-2	SE	2	od$_0$+	47	97	6	-	St	10	-	10	*
Roches Point	32	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1020·4	+2	ESE	3	or$_0$r$_0$	42	97	5	800	St	10	-	10	*
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	36	*	*	*	*	*	*	*	*
Croydon	244	1024·2	0	ENE	2	od$_0$d$_0$	35	97	1	<150	St	10	-	10	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1023·5	0	N	2	ffo	36	97	3	<150	St	10	-	10	*
Scilly (St. Mary's) ...	163	1017·6	+1	W	3	b-	47	97	8	4000	Cu	2	-	2	*
Falmouth (Pendennis)	200	1017·7	+2	NW	2	bc-	47	97	7	4000	StCu	7	-	7	*
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1019·5	-1	E'N	4	fo	44	97	2	450	St	10	-	10	*
Southampton (Calshot)	10	1022·4	0	NE'E	3	o/r	39	97	5	450	St	10	-	10	*
Dungeness	20	1023·3	0	NE	3	c/p	39	97	6	2500	StCu	10	-	10	*
Guernsey (Fort George) P	295	1018·8	-2	ESE	2	od d	45	97	5	1500	Nb	10	-	10	*

Observations at 7h. G.M.T. 23rd

Stations	Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	1028·6	0	NW	1	bc	37	85	8	1500	StCu	4	ACu	7	*
Stornoway	1028·9	+3	-	0	b	37	85	7	4000	Cu	2	-	2	0
Wick	1029·2	+1	N	2	c	41	75	8	1500	CuNb	5	CiSt	8	0
Tiree	1028·4	+2	S	1	b-	31	97	7	-	-	0	-	0	*
Nairn	1028·6	*	-	0	bc	34	85	7	2500	StCu	7	-	7	*
Aberdeen	1028·9	+1	NNW	3	c-	38	75	8	2500	StCu	8	-	8	0
Malin Head	1027·7	+2	SSE	1	b	34	97	6	-	-	0	-	0	1
Renfrew	1028·1	+1	WSW	2	o	34	97	5	1500	St	10	-	10	*
Edinburgh (Inchkeith)	1027·1	+3	NE	1	o	39	85	5	800	St	10	-	10	0
Leuchars	1028·0	+1	W	1	c	36	92	5	2500	StCu	10	-	10	*
Eskdalemuir	1028·3	+2	NE'E	1	c	34	85	6	1500	StCu	9	-	9	*
Tynemouth	1026·5	+1	NW	2	o	38	85	6	1500	Nb	10	-	10	1
Blacksod Point ...	1024·4	+3	ESE	2	bc	41	97	7	*	StCu	6	-	6	2
Donaghadee	1026·8	+2	ESE	4	c+	39	85	7	4000	StCu	8	-	8	4
Birr Castle	1025·1	*	ENE	3	mmo	39	97	4	450	St	10	-	10	*
Holyhead	1024·7	+4	E'S	5	b	37	92	6	-	-	0	-	0	4
Liverpool (Bidston) ...	1027·0	+3	SE'S	1	fgo	34	97	3	1500	St	10	-	10	*
Chester (Sealand) ...	1026·2	+1	-	0	od$_0$d$_0$	35	97	3	800	St	10	-	10	*
Harrogate	1027·1	0	-	0	c	33	92	5	2500	Nb	9	ASt	10	*
Spurn Head	1025·7	0	NNE	3	c	38	85	7	5700	StCu	10	-	10	1
Birmingham (Edgbaston)	1026·6	+1	NNE	2	ffo	34	97	1	<150	St	10	-	10	*
Cranwell	1026·2	0	NW	1	fo-	32	97	3	220	St	10	-	10	*
Gorleston	1024·5	0	N	3	c	38	85	7	-	-	0	ASt	10	0
Valentia (Cahirciveen) ‖	1022·1	+4	E	2	c	48	85	8	2500	StCu	10	-	10	1
Roches Point	1022·5	+4	E	3	c	49	97	7	1500	StCu	10	-	10	4
Pembroke (St. Ann's H.)	1022·3	+3	ESE	3	o	40	97	6	800	St	10	-	10	2
Ross-on-Wye	1025·5	+1	ENE	3	od$_0$d$_0$	35	97	3	450	St	10	-	10	*
Leafield	1025·3	+2	NE'N	3	od$_0$	34	97	5	800	St	10	-	10	*
Winchester (Worthy Dn.)	1024·1	+1	N	2	od$_0$	35	97	4	220	St	10	-	10	*
S. Farnborough ...	1024·4	+1	NE'N	2	od$_0$d$_0$	36	97	3	220	St	10	-	10	*
London (Kew Obsy.) ...	1024·7	+2	NE	3	od$_0$	37	97	5	450	Nb	10	-	10	*
Croydon	1024·3	0	NE	2	od$_0$d$_0$	36	97	3	220	St	10	-	10	*
Shoeburyness	1024·6	0	NNE	2	ffo	37	97	2	220	St	10	-	10	1
Clacton-on-Sea ...	1024·4	0	NNE	3	fgo	37	97	3	2500	St	10	-	10	2
Felixstowe	1024·7	0	N	3	mmo	36	97	4	450	St	10	-	10	*
Lympne	1023·3	0	N	4	ffo	37	97	2	<150	St	10	-		
Scilly (St. Mary's) ...	1021·8	+2	N	2	bc	46	97	7	4000	Cu	4	-	4	1
Falmouth (Pendennis)	1021·6	+3	ESE	3	c+	45	85	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1022·7	+8	NE	4	o	42	97	7	1500	St	10	-	10	0
Portland Bill	1021·1	+1	ENE	5	mmo	39	92	4	800	St	10	-	10	5
Southampton (Calshot)	1023·2	+2	NNE	4	o/r	38	92	6	450	St	10	-	10	0
Dungeness	1022·9	+1	NE	3	ffo	40	97	3	450	St	10	-	10	2
Guernsey (Fort George) P	1020·1	+3	ENE	4	o	44	97	5	800	St	10	-	10	4

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 21. to 9h. 22. °F.	Temperature. Max. 9h. -17h. 22. °F.	Rainfall.† Night 17h.-9h. 21-22. mm.	Rainfall.† Day 9h.-17h. 22nd. mm.	Sunshine. Sunrise to Sunset 22nd. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	go	fc	23	31	-	-	0·0
Douglas (I. o. M.) ...	of	of	34	37	-	-	0·0
Llandudno ...	b	bbm$_0$	30	46	-	-	6·8
Colwyn Bay ...	bbyb	bbyb	29	41	-	-	7·3
Rhyl	b	bc	29	47	-	-	6·1
Wallasey	Fco	o	31	38	Trace	-	0·0
Southport	oef	om	‡32	35	-	-	0·0
Blackpool	ofe	om	31	34	0·1	-	0·0
Ilkley	f	f	27	30	-	-	0·0
Cleethorpes	ofe	ofe	28	36	-	0·4	0·0
Skegness	fexfe	fe	27	36	Trace	Trace	0·0
Aberystwyth ...	x2bc	bc	37	48	-	-	7·2
Bath	fmc	mc	33	41	1	-	0·0
Cheltenham‖ ...	omo	o	33	40	-	-	0·0
Leamington Spa ...	oe	oed	26	35	-	0·2	0·0
Lowestoft	of	cf	34	39	0·4	-	0·0
Harwich & Dovercourt	ocf	ocdf	34	37	Trace	Trace	0·0
Maldon	fo	fo	33	36	Trace	-	0·0
Southend	ofd	of	34	36	0·3	0·1	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cir$_0$	cir$_0$	38	50	-	1	1·0
Penzance	or	orf	49	50	1	4	0·0
Paignton	ome	ofmoms	43	46	1	0·3	0·0
Torquay	ofe	ofe om	43	47	Trace	Trace	0·0
Jersey	c	cd	40	45	7	0·3	0·0
Weymouth	mcbc	mfcb	40	45	0·1	-	2·5
Bournemouth ...	o	o	38	46	1	-	0·0
Ventnor ...	fdom	bcoz	41	46	0·3	-	1·2
Portsmouth (S'thsea)	of	of	39	45	1	-	0·0
Bognor	cbc	c	40	45	2	-	0·0
Littlehampton ...	omcbc	c cm	38	44	1	-	0·5
Worthing	c	c	40	45	1	-	0·7
Brighton	cobco	co	41	46	2	-	0·3
Eastbourne‖	fo	omf	41	46	3	-	0·0
Hastings‖	ofmoc	cbcom	40	45	3	0·1	0·3
Folkestone	r om	om of	37	42	1	-	0·0
Dover	forr	foco	39	41	1	Trace	0·0
Tunbridge Wells ...	ofom	om of	34	41	1	-	0·0
Ramsgate	offd	d off	37	40	1	1	0·0
Margate	fcr	cf	36	39	0·3	1	0·0
Deal	fco	cff	37	40	1	-	0·0

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24555 Thursday, 24th January, 1929. Page 1.

Observations at 13h. G.M.T. 23rd. / Observations at 18h. G.M.T. 23rd.

Stations (For heights see p. 4).	13h Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.	18h Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1028.6	0	N'E	3	bc	38	85	8	1500	Cu	5	-	5	•	1028.9	+1	N	3	bcjp	38	85	8	1500	CuNb	7	-	7	•
Stornoway	1031.9	+3	-	0	bc+	43	85	7	4000	CuNb	5	-	5	•	1032.7	+2	NE	1	bcr_or_o	38	85	7	4000	CuNb	4	ACu	6	0
Wick	1030.7	+1	WNW	2	c	41	75	8	2500	Cu	10	-	10	•	1030.8	0	NNW	3	c	38	85	8	2500	CuNb	4	ACu	10	0
Tiree	1030.8	+1	E'N	3	b	41	75	7	-	-	0	ACu	1	9	1031.7	+1	NE	4	c	41	75	7	2500	StCu	9	-	9	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.9	•	-	0	c+	35	85	6	1500	St	9	-	9	•
Aberdeen	1029.9	+1	NW	3	bcjp	40	85	7	2500	StCu	7	-	7	1	1030.1	0	WNW	2	bc+	34	92	7	2500	StCu	4	-	4	0
Malin Head	1029.0	+2	S	2	b	40	85	6	-	-	0	-	0	•	1031.3	+3	E	1	c	40	85	6	5700	StCu	10	-	10	1
Renfrew	1030.3	+2	-	0	mmc	36	92	4	4000	StCu	10	-	10	3	1031.1	+1	NW	1	c	36	92	5	4000	StCu	10	-	10	•
Edinburgh (Inchkeith)	1029.0	+2	NE	3	c	40	85	8	4000	Cu	5	ACu	9	•	1029.9	+1	NNW	2	c	39	65	8	4000	Cu	3	ASt	10	0
Leuchars	1029.8	+1	N	3	c	41	75	8	4000	StCu	9	-	9	1	1030.6	+1	N	2	c	37	85	7	4000	StCu	9	-	9	•
Eskdalemuir	1029.5	+1	NNE	2	c	37	85	7	1500	StCu	10	-	10	3	1030.9	+1	N'E	2	c	35	85	7	2500	StCu	10	-	10	•
Tynemouth	1028.1	+1	NE	1	c/r	41	75	8	1500	Nb	8	-	8	•	1028.9	+1	NW	2	c	39	85	7	1500	Nb	8	-	8	1
Blacksod Point	1028.2	+3	ESE	2	c	43	85	6	-	-	0	ASt	10	•	1029.3	+2	SE	1	c	42	85	6	•	-	0	ASt	10	2
Donaghadee	1028.8	+2	ESE	3	c+	41	75	7	4000	StCu	8	-	8	•	1030.0	+2	SE	2	c	41	75	7	4000	StCu	8	-	8	2
Birr Castle	1027.7	•	NNE	1	o	42	92	5	800	St	10	-	10	•	1029.7	•	NE	1	o	41	92	5	800	St	10	-	10	•
Holyhead	1027.4	+2	E	4	c	40	85	6	1500	St	9	-	9	1	1029.2	+2	E'N	2	c	40	75	6	2500	St	9	-	9	1
Liverpool (Bidston)	1028.3	+1	-	0	ffo	36	97	3	1500	St	10	-	10	•	1029.5	+1	NW	1	fo-	37	92	4	2500	St	10	-	10	•
Chester (Sealand)	1028.2	+2	-	0	fo-	37	92	4	2500	St	10	-	10	1	1029.0	+2	NW'W	2	mmo	37	92	4	1500	St	10	-	10	•
Harrogate	1028.2	+2	SW	1	c	36	92	5	2500	Nb	9	ASt	10	•	1029.0	0	W	1	c	37	92	5	2500	Nb	8	ACu	9	•
Spurn Head	1027.0	0	NW'W	2	c	38	92	6	5700	StCu	10	-	10	•	1027.4	0	NW	2	bc-	37	92	7	5700	StCu	4	-	4	0
Birmingham (Edgbaston)	1027.9	+1	NNE	2	ffc	36	92	3	800	St	8	-	8	2	1029.0	+1	NNW	2	mmo	36	85	4	800	St	10	-	10	•
Cranwell	1027.6	+1	NW	1	mmc	33	97	4	2500	StCu	10	-	10	1	1028.3	+1	NW	2	ffc	34	97	3	4000	StCu	10	-	10	•
Gorleston	1025.1	0	N'W	3	c	40	92	6	1500	Nb	3	ASt	10	•	1025.9	0	N	4	c	40	85	7	5700	StCu	10	-	10	1
Valentia (Cahirciveen)	1025.7	+2	SE'E	2	c	49	85	8	2500	StCu	10	-	10	2	1027.3	+1	E	3	c	47	85	8	2500	StCu	10	-	10	3
Roches Point	1026.4	+3	E	3	od_od_o	46	97	7	800	St	10	-	10	•	1027.9	+3	E	3	c	45	92	7	1500	StCu	10	-	10	4
Pembroke (St. Ann's H.)	1026.9	+3	ESE	3	c	39	92	5	800	StCu	10	-	10	•	1027.9	+1	ESE	1	c	39	85	6	800	StCu	10	-	10	2
Ross-on-Wye	1027.6	+1	NE	2	od_o	36	97	3	450	St	10	-	10	2	1028.0	+1	N	1	ffo	36	92	3	220	St	10	-	10	•
Leafield	1027.2	+1	NW'N	2	o	35	97	5	800	St	10	-	10	2	1028.2	+1	NW'N	1	mo+	34	97	4	450	St	10	-	10	•
Winchester (Worthy Dn.)	1026.4	+2	NNE	2	o	37	92	6	800	St	10	-	10	2	1027.3	+1	NW'N	2	c	35	92	6	1500	St	10	-	10	•
S. Farnborough	1026.4	+1	NNE	2	o	37	85	6	1500	St	10	-	10	2	1027.0	+1	-	0	o	36	85	5	2500	St	10	-	10	•
London (Kew Obsy.)	1026.5	0	NNE	2	c	39	75	6	1500	St	10	-	10	2	1027.4	+1	N'W	2	c	37	85	5	1500	StCu	9	-	9	•
Croydon	1026.3	+1	NNE	3	ffo	38	85	3	800	St	10	-	10	2	1026.8	+1	NNW	2	mmc	38	85	4	800	St	10	-	10	•
Shoeburyness	1025.9	0	NW	2	o	37	97	6	800	St	10	-	10	•	1026.3	0	NW	1	c	36	97	6	2500	StCu	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.5	+1	N	3	c	37	92	6	5700	Cu	5	ACu	10	1
Felixstowe	1026.0	0	NW	2	o	37	92	5	800	St	10	-	10	2	1026.0	0	NNW	2	c	37	92	5	2500	StCu	9	-	9	1
Lympne	1024.4	0	N'W	4	c	35	97	5	800	St	10	-	10	2	1026.1	+1	N'W	3	c	35	92	5	1500	StCu	10	-	10	•
Scilly (St. Mary's)	1025.6	+2	E'S	3	c+	47	97	6	4000	StCu	10	-	10	•	1025.9	0	E'S	4	c	45	97	6	2500	St	9	-	9	4
Falmouth (Pendennis)	1026.1	+4	ESE	3	c	43	92	7	4000	StCu	10	-	10	•	1027.3	+1	-	0	c	42	92	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1025.9	+3	E	1	c	43	92	7	1500	St	9	-	9	2	1027.5	+2	ENE	2	o	39	97	6	800	St	10	-	10	0
Portland Bill	1025.0	+2	NE	4	c	40	85	5	1500	St	9	ASt	10	•	1026.5	+2	NE.	4	c	39	85	6	1500	St	8	ASt	10	4
Southampton (Calshot)	1026.2	+1	N'E	3	c	39	85	6	1500	St	10	-	10	2	1027.7	+2	N	2	c	38	75	6	2500	StCu	10	-	10	0
Dungeness	1025.3	+1	NE	3	o/m	38	92	6	1500	St	10	-	10	•	1025.4	+1	N	3	o	37	97	6	1500	St	10	-	10	3
Guernsey (Fort George)	1024.1	+3	E	6	c	45	92	7	800	St	8	ASt	10	•	1026.1	+3	ENE	3	cd_o	43	92	6	800	St	8	ASt	10	4

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

Station	Height above M.S.L. in feet.	Weather (24 Hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day. °F.	Min. Nght. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Night.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. % Yesterday.	9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	ctd_oc	cm_o	cmr_o	40	34	30	Tr.	Tr.	0.0	•	•	5
Croydon	244	ofefed,f	Offm	Cm	38	34	29	0.1	-	0.0	•	•	3
Greenwich (Royal Obsy.)	149	Cmm_o	Cm_o	Cm_o	39	34	30	-	-	0.0	81	92	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	41	35	28	-	-	0.0	82	86	•
Regent's Pk. (Botanic Gdns).	188	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	moc	C	•	36	35	-	-	-	•	•	92	•
Kensington Palace	80	O	O	•	39	35	29	-	Tr.	•	[At 18h] D.I.	90	•
Hampstead Observatory	450	•	•	•	36	30	25	0.3	Tr.	0.0	•	96	•

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

South Kensington Max.	Time.	Min.	Time.
1.0	18h 23rd	0.3	7h 24th

Kew Observatory Max.	Time.	Min.	Time.
0.3	18h 23rd	0.1	7h 24th

Pole Star Record at Greenwich Obsy. Exposure from 23rd 17h. 45m. to 24th 6h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13.0	0.38	5
δ Ursae Minoris	13.0	0.14	2

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 January....1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.50	12.5	16.21
	7.49	12.6	16.23
Greenwich	7.52	12.12	16.32
	7.51	12.12	16.34
Wick	8.38	12.25	16.12
	8.36	12.25	16.14
Valentia	8.35	12.53	17.12
	8.34	12.53	17.13

Beaufort Notation of Weather.
b blue sky (not more than a quarter covered with cloud).
bc sky partly cloudy (one half covered).
c generally cloudy
d drizzle. e wet air. g gloomy.
f fog, visibility 200—1000 m.
F thick fog, " less than 200 m.
m mist, " 1000—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.
/ "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain; − = has decreased; + = has increased.

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

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

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

§ Telegraphic Code for Surface Visibility.

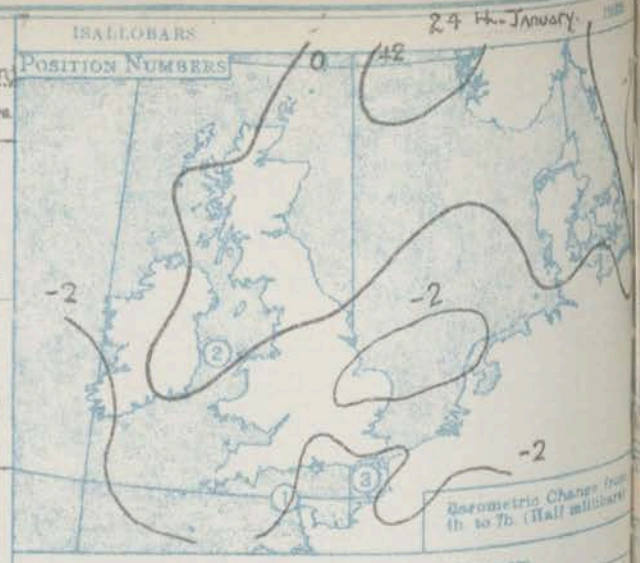
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 23rd	Weather. 18h.-18h. 23rd	Weather. 18h. 23rd to 1h. 24th	Weather. 1h.-7h. 24th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	Rainfall.† Day. 7h.-18h. began.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Night. 18h.-7h. began.	Sun 23rd Hours.
Lerwick	bc	bcprs	bcprs.	bcc	39	32	•	1	16.30	Tr.	<21.00	4.0
Stornoway	c	bbdir.	bccphbc	bcphrc	43	32	•	0.2	17.30	1	22.00	1.4
Wick	cpr.c	cpr.c	prsbc	bbc	43	34	•	1	<8.00	0.2	<21.00	•
Tiree	b-bc	bbcc	cbcc	bcb	42	37	30	–	–	–	–	6.1
Nairn	bcdc	cbccm	cdpbc	xbc	38	29	•	0.2	<8.00	Tr.	<21.00	0.0
Aberdeen	cjpbc	bcpr.bcb	cpstc	bbc	42	33	28	Tr	13.30	1	<21.00	1.5
Malin Head	bz.z.	bbczz.	czzbcb	bbcc	41	37	•	–	–	–	–	3.0
Renfrew	om cm	cmz.	cm.bc	b bx	39	25	15	–	–	–	–	0.0
Edinburgh (Inchkeith)	om.cir.	c	cbc	bcb	40	33	27	0.1	9.00	–	–	0.0
Leuchars	cm.r.c	cbcc	cpbcbx bc	bcbx	41	30	22	Tr	9.00	Tr.	<21.00	0.0
Eskdalemuir	c.cpr.c	c	cbc	bcbx	38	28	22	Tr	11.00	–	–	0.0
Tynemouth	omir	c	cbcp.	bcp	42	35	30	1	<8.00	2	<21.00	•
Blacksod Point ...	co	o	c	c	43	38	•	–	•	–	•	•
Donaghadee	cbcc	c	cbc	bc	42	38	•	–	–	–	–	•
Birr Castle	om.	om.	om.c	c	42	34	27	–	–	–	–	0.0
Holyhead	bm.c	cm.	cm.	cm.bc	41	39	37	–	–	–	–	0.0
Liverpool (Bidston) ...	ofsg	offm	omc b	bx b	37	32	27	Tr	–	–	–	0.0
Chester (Sealand) ...	ofom	om	cbcm.	bcx	38	32	27	Tr	<8.00	–	–	0.0
Harrogate	c	c	cbcb	bccps	38	32	29	–	–	0.1	4.30	0.0
Spurn Head	c	cpr.bc	cphpr	cpsprbcx	40	33	•	Tr	16.30	1	22.00	0.0
Birmingham (Edgbaston)	ofd.	ofm	mmo	mobc	37	32	28	0.1	<8.00	–	–	0.0
Cranwell	ofcm	cocf	cf	cmbcx	35	30	28	–	–	–	–	0.0
Gorleston	c	cr.c	cbc	bccpsx	40	31	28	Tr	13.30	Tr.	2.30	0.0
Valentia (Cahirciveen)	c	c	o	cbc	49	40	38	–	–	–	–	0.0
Roches Point	cod.d.	od.cg	cg	c	49	39	•	0.3	9.00	–	–	•
Pembroke (St. Ann's H.)	cm.	cm.	c	cm.	40	36	•	–	–	–	–	0.0
Ross-on-Wye	od.fofid.	ofgof	off	off	37	34	31	0.1	<8.00	–	–	0.0
Leafield	offf	om.	omc	c	36	32	31	0.1	–	–	–	0.0
Winchester (Worthy Dn.)	omfd.m.	om.cm.	cm.	omoff	38	32	30	0.1	<8.00	–	–	0.0
S. Farnborough ...	ofd.d.m.	om.	om.	cm.	38	34	31	0.3	<8.00	–	–	0.0
London (Kew Obsy.) ...	cfd.c	cm.	cm	cm.r.	40	34	30	Tr	<8.00	Tr.	6.30	0.0
Croydon	ofofed.f	offm	cm	cm	38	34	29	0.1	<8.00	–	–	0.0
Shoeburyness	ofscompm	cm.cm.	cm.	cm.	38	30	28	–	–	–	–	0.0
Clacton-on-Sea ...	egfsm	agcm	cmc	c	38	31	27	0.2	<8.00	–	–	0.0
Felixstowe	om.	ocm.	cm.	cm.x	38	30	27	0.1	–	–	–	0.0
Lympne	od.d.f	cm.	cbcm.	bmbcmx	38	29	27	0.1	9.00	–	–	0.0
Scilly (St. Mary's) ...	bbcc	c	comid.	od.d	47	40	•	–	–	0.3	22.00	1.1
Falmouth (Pendennis)	c	c	cr.m.	cm.r.	46	37	•	–	–	0.1	22.00	0.0
Plymouth (Cattewater)	om.bc	com.	om.c	cm.w	44	37	35	–	–	Tr.	–	0.0
Portland Bill	omom.	oz.	ocz.	oz	41	36	•	Tr	<8.00	–	–	•
Southampton (Calshot)	oid.cm.	cm.	c	c	39	35	33	Tr	<8.00	–	–	0.0
Dungeness	ommo	o	occbc	bbcx	40	30	•	–	–	–	–	•
Guernsey	oir.m.g	cid.m.	cid.m.	cm.	45	39	•	0.2	<8.00	Tr.	<21.00	0.0



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	23rd 10h	Cambria	E	4	C+	43	47

GENERAL INFERENCE.

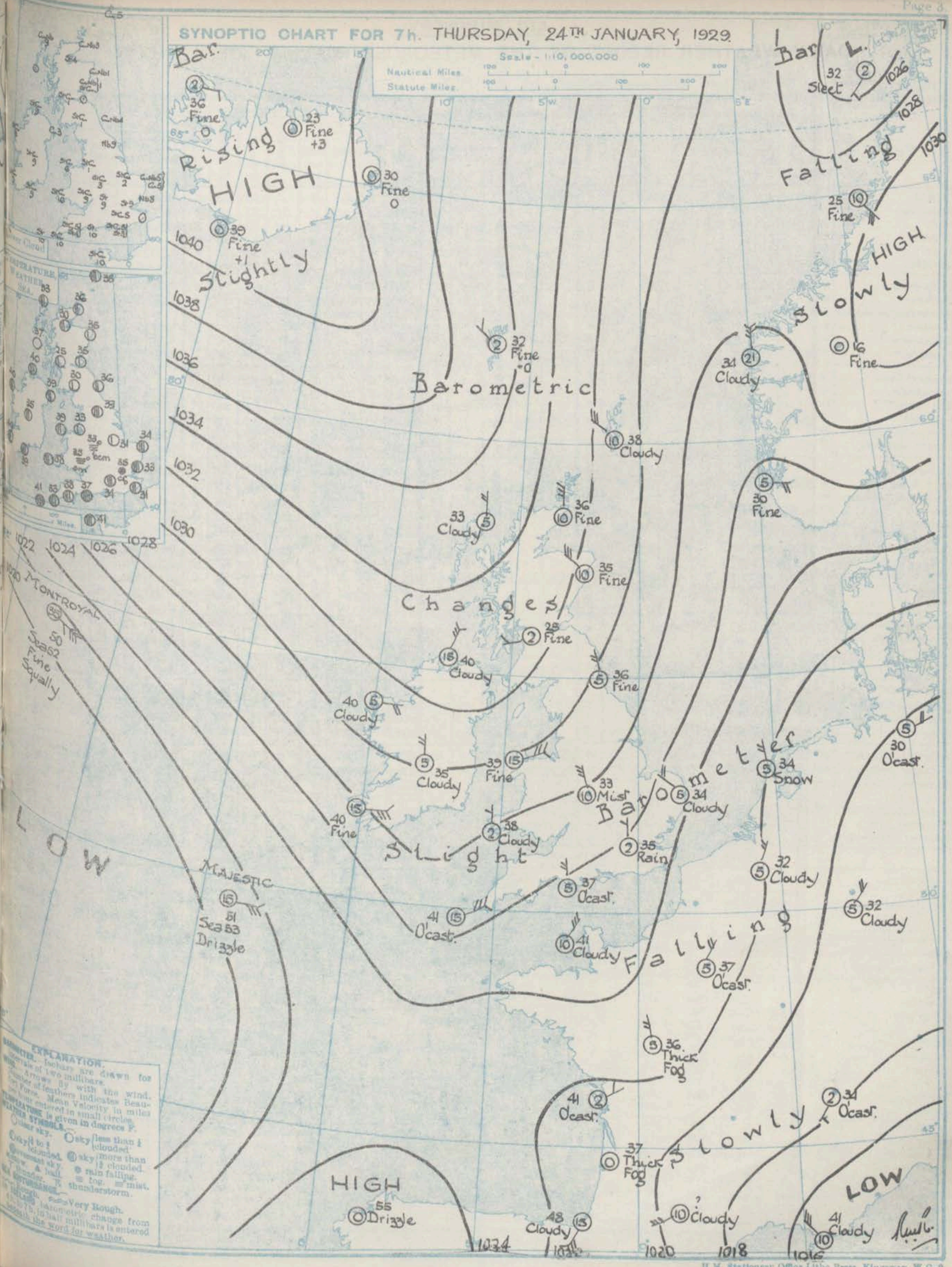
From an anticyclone to the north of Iceland a ridge of high pressure extends southward over the British Isles. Weather will be quiet and mainly fair generally though occasional wintry showers are to be expected on the Eastern seaboard. Temperature will be rather low.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 24th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Moderate northerly or northeasterly winds; cloudy with bright intervals but occasional wintry showers; rather cold; ground frost at night.	No important change yet indicated.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Moderate northeasterly winds; fair; rather cold; ground frost inland at night.	
8. N.W. England 9. N. Midlands	Light variable winds; fair; rather cold; ground frost inland at night.	
10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland	Light to moderate northerly winds; fair; rather cold; ground frost inland at night.	
15. N.E. Scotland 16. Orkneys and Shetlands	As 10 - 11.	WSP.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light or moderate northeasterly or easterly winds; fair; rather cold; ground frost inland at night.	

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

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

SYNOPTIC CHART FOR 7h. THURSDAY, 24TH JANUARY, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION Thursday, 24th January, 1929. No. 24.

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.§ 0-9	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. 24th. Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	54	1031.4	+2	N	3	bc jp	40	75	8	1500	CuNb	7	-	7	1031.0	0	NW	3	c	38	85	8	1500	Cu	5	Ast	9	•
Stornoway	80	1034.7	+2	N	2	bc	•	•	7	•	•	•	•	5	1034.2	-1	N	2	c+	33	92	7	4000	CuNb	9	-	9	2
Wick	81	1032.2	+1	N	3	bc	39	75	8	1500	CuNb	6	-	6	1032.1	0	N	3	bc	36	85	8	2500	CuNb	8	-	3	1
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1033.0	0	N	5	b-	37	85	9	-	—	0	-	0	4
Nairn	89	•	•	•	•	•	•	•	•	•	•	•	•	•	1032.8	•	-	0	bc-	30	75	8	1500	St	4	-	4	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.0	0	NW	3	b	35	92	8	2500	CuNb	1	-	1	0
Malin Head	81	1032.7	+2	NNE	3	b	41	76	8	-	-	0	Acu	2	1032.4	0	NNE	4	c	40	85	8	5700	Scu	9	-	9	1
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1032.6	+1	WSW	1	b	25	97	8	5700	Scu	1	-	1	1
Edinburgh (Inchkeith)	196	1030.6	+1	NNW	3	bc	36	75	8	-	-	0	Acu	5	1030.5	0	NNW	3	b	35	85	9	-	-	0	Acu	2	•
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.3	+1	NW	2	b+	34	75	7	4000	CuNb	1	-	1	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.3	0	N	3	b	30	92	8	4000	Scu	1	-	4	2
Tynemouth	67	1029.1	0	NW	2	bc/r	35	92	7	1500	CuNb	6	-	6	1028.4	0	NNW	2	bc/r	36	92	7	1500	CuNb	4	-	8	2
Blacksod Point	18	1031.6	+2	SE	3	c	41	75	7	•	Scu	8	-	8	1031.6	0	E	2	c	40	65	7	•	Scu	8	-	8	3
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.8	0	NE	3	bc	39	65	7	4000	Cu	8	-	9	•
Birr Castle	175	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.0	•	N	2	c-	36	92	7	2500	Scu	9	-	6	1
Holyhead	26	1029.6	0	NE	2	c	41	85	6	2500	Scu	9	-	9	1029.5	0	ENE	4	bc	39	76	8	2500	Scu	6	-	1	•
Liverpool (Bidston)	182	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.1	0	NEN	3	b	33	85	7	4000	Scu	1	-	4	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.9	0	WNW	2	bc-	32	85	7	4000	Scu	4	-		
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.6	0	NNW	2	c	33	97	7	2500	Nb	9	-	9	•
Spurn Head	29	1028.5	0	NNW	4	bc-	35	97	7	4000	CuNb	5	Acu	6	1025.2	0	NWN	4	bc+	34	97	8	4000	CuNb	6	-	6	2
Birmingham (Edgbaston)	565	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.1	-1	NNW	3	mmk	33	85	4	4000	Scu	3	-	3	•
Cranwell	236	1028.0	0	NWN	3	fc-	33	97	4	4000	Scu	8	-	8	1028.4	-1	NWN	4	b-	31	97	6	4000	Scu	2	-	2	•
Gorleston	14	1025.9	-1	NW	2	bc-	34	86	7	-	-	0	Acu	3	1023.9	-2	NW	2	c	34	85	6	2500	CuNb	10	-	10	0
Valentia (Cahirciveen) P	30	1029.3	+2	E	1	c	45	97	7	-	-	0	Ast	10	1027.7	-3	E	4	bc	40	85	8	4000	Scu	2	Cu	5	4
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.5	0	E	3	c	39	85	8	2500	Scu	9	-	9	2
Pembroke (St. Ann's H.)	160	1028.9	+1	ESE	1	c	38	85	7	1500	Scu	10	-	10	1027.1	-1	N	1	c	38	75	6	800	Scu	10	-	10	•
Ross-on-Wye	224	•	•	•	•	•	•	•	•	•	•	•	•	•	1027.5	0	N	2	fc-	35	92	4	4000	Scu	9	-	9	•
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.7	-1	N	3	c	32	92	5	800	St	9	-	9	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.6	-1	NW	3	fto	34	92	3	800	St	10	-	10	•
S. Farnborough	257	•	•	•	•	•	•	•	•	•	•	•	•	•	1025.9	-2	NNE	2	c	34	92	5	2500	Scu	5	Ast	8	•
London (Kew Obsy.)	18	•	•	•	•	•	36	•	•	•	•	•	•	•	1026.1	-1	NW	1	cr	35	85	5	1500	St	9	-	9	•
Croydon	244	1026.9	-1	NE	3	mmc	37	85	4	2500	Scu	9	-	9	1025.7	0	NWN	2	c+	34	92	6	800	St	10	-	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.0	-1	NNW	3	c	33	92	5	1500	Scu	10	-	10	2
Clacton-on-Sea	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.9	-1	NNW	3	c	33	85	7	5700	Nb	8	-	8	1
Felixstowe	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.5	-2	NWN	2	c	33	97	6	2500	Scu	7	Ast	9	•
Lympne	350	1025.4	0	NNW	4	bc-	34	97	5	-	-	0	Acu	3	1024.2	-1	NNW	4	o+	32	97	6	800	St	10	-	10	
Scilly (St. Mary's)	163	1027.0	0	ESE	3	od	43	97	6	2500	St	10	-	10	1026.1	-1	ENE	4	o/d	41	92	6	2500	St	10	-	10	8
Falmouth (Pendennis)	200	1027.5	0	ENE	3	c	39	97	6	4000	Scu	10	-	10	1026.3	-1	NE	3	c	38	97	7	4000	Scu	10	-	10	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.5	-1	NE	4	c	38	85	7	1500	Scu	9	-	9	0
Portland Bill	32	1026.8	-1	N	3	c	38	75	6	2500	Scu	10	-	10	1025.8	-1	N	2	mmc	37	85	4	1500	St	10	-	10	2
Southampton (Calshot)	10	1027.1	0	NW	2	c	37	85	6	2500	Scu	10	-	10	1026.0	-2	NNW	3	c	36	85	6	1500	St	10	-	10	0
Dungeness	30	1025.3	-1	N	2	bc-	34	97	7	4000	Scu	7	-	7	1024.1	-2	N	2	bc-	31	85	7	-	-	0	Acu	4	2
Guernsey (Fort George) P	205	1026.6	0	NNE	1	c+	41	85	6	2500	Scu	10	-	10	1025.2	-2	NE	3	c	41	65	7	2500	Scu	10	-	10	3

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 22nd to 9h. 23rd. °F.	Temperature. Max. 9h.-17h. 23rd. °F.	Rainfall.† Night 17h.-9h. 22-23rd. mm.	Rainfall.† Day 9h.-17h. 23rd. mm.	Sunshine. Sunrise to Sunset. 23rd. hr.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Berwick-on-Tweed	c	c	28	42	-	-	0.0
Douglas (I. o. M.)	c	c	35	40	-	-	0.0
Llandudno	c	o	34	40	-	-	0.0
Colwyn Bay	oco	oco	32	39	-	-	0.0
Rhyl	o	o	33	39	-	-	0.0
Wallasey	Fo	Fo	33	37	-	-	0.0
Southport	o	o	‡33	38	-	-	0.0
Blackpool	o	o	32	38	-	-	0.0
Ilkley	omo	go	28	39	0.3	-	0.0
Cleethorpes	off	foz	34	40	-	-	0.0
Skegness	doc	cof	33	40	Trace	-	0.2
Aberystwyth	xz bc	c	34	40	-	-	1.7
Bath	mc	mc	35	39	Trace	-	0.0
Cheltenham	omo	om om	34	37	0.3	-	0.0
Leamington Spa	oz	oz	32	37	0.2	-	0.0
Lowestoft	c	c	34	40	-	-	0.0
Harwich & Dovercourt	ocf	ocbcf	34	38	Trace	Trace	0.0
Maldon	do	o	33	38	1	-	0.0
Southend	om	om	34	37	0.3	-	0.0
Bude	rc	c	39	40	15	-	0.0
Penzance	oc	com	44	46	14	-	0.0
Paignton	Rgom	od pmm	39	40	21	Trace	0.0
Torquay	om	od om	39	40	14	Trace	0.3
Jersey	g	g	41	46	14	Trace	0.0
Weymouth	oc	o	38	40	-	-	0.0
Bournemouth	o	o	36	39	-	-	0.0
Ventnor	om	om	38	39	-	-	0.0
Portsmouth (S'thsea)	om	om	39	40	-	-	0.0
Bognor	o	o	38	39	-	-	0.0
Littlehampton	o	o	38	39	-	-	0.0
Worthing	oc	oc	38	39	-	-	0.0
Brighton	ocbc	bcc	38	40	-	-	0.0
Eastbourne	mo	o	38	41	-	-	0.0
Hastings	ofmoc	omo	37	39	0.2	-	0.0
Folkestone	oftom	om	36	41	-	-	0.0
Dover	fsom	om	37	39	0.1	Trace	0.0
Tunbridge Wells	bfom	o om	35	37	0.3	-	0.0
Ramsgate	om	om	36	39	Trace	-	0.0
Margate	c	c	36	39	-	-	0.0
Deal	fo	o	36	40	0.3	-	0.0

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

† At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‡ 12h.-9h.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,536 Friday 25th January 1929. Page 1.

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	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1030.4	-1	NW	3	cjp	38	85	8	1500	Cu Nb	5	A St	8	•
Stornoway	1034.5	0	NE	2	bc-	39	92	7	4000	Cu	4	-	4	•
Wick	1032.4	0	NW	3	c	39	85	8	1500	Cu Nb	6	C St	8	•
Tiree	1033.8	0	N'E	4	b-	41	65	9	-	-	0	-	0	3
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1030.7	-1	NNW	4	b	38	85	8	2500	Cu Nb	2	-	2	1
Malin Head	1033.3	+1	NE	3	b	40	85	9	4000	Cu	1	A Cu	1	•
Renfrew	1032.1	-1	N	2	b+	41	65	7	5700	Cu	2	-	2	1
Edinburgh (Inchkeith)	1030.4	0	NNW	3	bc	39	75	7	-	-	0	A Cu	7	•
Leuchars	1031.1	0	NW	2	bc	38	75	8	4000	St Cu	7	-	7	3
Eskdalemuir	1030.6	0	N	4	bc	37	75	8	2500	St Cu	6	-	6	3
Tynemouth	1028.3	0	NNW	3	bcjp	41	85	8	1500	Nb	7	-	7	•
Blacksod Point	1032.3	+1	ESE	1	bc	40 [2]	65	9	*	St Cu	6	-	6	•
Donaghadee	1031.2	+1	NE'E	2	b-	40	65	8	-	-	0	-	0	•
Birr Castle	1030.7	•	N	2	b-	40	75	6	-	-	0	-	0	•
Holyhead	1030.1	+1	NE'N	3	bc	40	75	8	2500	Cu	4	-	4	1
Liverpool (Bidston)	1028.9	0	N	3 [4]	t	37	75	7	2500	St Cu	1	-	1	•
Chester (Sealand)	1028.5	0	NW	4	bc-	39	75	6	4000	Cu	3	-	3	1
Harrogate	1028.0	0	N	3	c/pr₀	37	85	7	2500	Nb	9	-	9	•
Spurn Head	1024.3	0	N'W	4	bc-	37	92	7	4000	Cu Nb	3	A Cu	4	•
Birmingham (Edgbaston)	1027.2	-1	NW	3	mmc	37	75	4	2500	St Cu	8	-	8	2
Cranwell	1026.5	-1	N'W	4	b-	37	85	6	800	St	to 2	-	to 2	1
Gorleston	1022.9	-1	N'W	3	bc	39	85	6	2500	Cu Nb	6	-	6	•
Valentia (Cahirciveen)	1028.7	0	E	4	bc	43	65	8	2500	Cu	1	Ci Cu	3	1
Roches Point	1029.3	+1	E	3	b	42	65	8	2500	St Cu	2	-	2	•
Pembroke (St. Ann's H.)	1028.4	0	ENE	2	bc-	41	55	8	2500	Cu	4	-	4	•
Ross-on-Wye	1027.1	0	N	3	bc-	39	75	7	4000	Cu	7	-	7	2
Leafield	1026.0	0	NNW	4	bc-	36	85	6	1500	St Cu	4	-	4	2
Winchester (Worthy Dn.)	1025.5	-1	N	3	c	36	85	6	1500	St Cu	9	-	9	2
S. Farnborough	1025.5	-1	NNW	2	c	37	85	6	1500	St Cu	10	-	10	2
London (Kew Obsy.)	1025.2	-1	N'W	2	o	37	85	5	1500	St	10	-	10	2
Croydon	1025.3	0	NNW	3	fc-	36	85	4	800	St	10	-	10	2
Shoeburyness	1024.2	-2	N'W	3	c	35	97	6	800	St	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1023.5	-2	NW'N	3	bc	39	92	7	1500	Cu	6	-	6	2
Lympne	1023.4	-2	NNW	5	c/s	35	92	6	450	St	9	-	9	2
Scilly (St. Mary's)	1025.9	0	E'N	4	bc	42	75	7	4000	Cu	2	Ci St	6	•
Falmouth (Pendennis)	1026.8	0	NE	2	c+	41	75	6	4000	St Cu	9	-	9	•
Plymouth (Cattewater)	1026.5	0	NE	4	b-	41	75	6	4000	Cu	1	-	1	1
Portland Bill	1025.4	-1	NNE	4	bc-	40	65	6	1500	St	7	-	7	•
Southampton (Calshot)	1025.6	0	N'W	3	c	37	75	6	1500	St Cu	8	-	8	0
Dungeness	1023.3	-2	N	3	c	37	92	7	800	St	8	-	8	•
Guernsey (Fort George)	1024.9	-1	NE	4	c	40	75	6	1500	St Cu	10	-	10	•

Observations at 18h. G.M.T. 24th

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1028.0	-4	NW	3	cjp	37	92	8	1500	Cu Nb	5	A St	8	•
Stornoway	1032.3	-3	NE	1	bc-	35	92	7	4000	Cu	6	-	6	1
Wick	1029.7	-2	NW	3	bc	37	85	8	1500	Cu Nb	6	-	6	1
Tiree	1032.4	-2	N	4	bc	37	75	9	4000	Cu	4	-	4	4
Nairn	1030.1	•	-	0	bc/r	34	85	8	2500	Cu Nb	3	A Cu	6	•
Aberdeen	1028.9	-4	NW	4	c+	35	92	8	2500	St Cu	8	-	8	0
Malin Head	1032.3	-2	NNE	3	b	39	85	9	-	-	0	A Cu	1	1
Renfrew	1030.6	-1	N	1	b	33	75	6	-	-	0	-	0	•
Edinburgh (Inchkeith)	1029.5	-2	NNW	3	b	37	75	8	-	-	0	A Cu	2	1
Leuchars	1029.8	±	NW	3	bc	36	65	8	4000	St Cu	3	A Cu	3	•
Eskdalemuir	1030.1	-3	N'E	3	b-	33	75	8	-	-	0	-	0	•
Tynemouth	1027.1	-1	NNW	3	bcjp	39	85	7	1500	Nb	6	-	6	4
Blacksod Point	1031.8	0	ESE	3	bc	40	65	8	•	Cu	3	-	3	3
Donaghadee	1030.4	-1	NE	3	bc+	41	65	8	4000	Cu	5	-	5	3
Birr Castle	1031.3	•	N	3	b+	34	92	6	4000	Cu	1	A Cu	2	•
Holyhead	1029.5	-1	NE	4	b	40	85	8	1500	Cu	2	-	2	2
Liverpool (Bidston)	1029.1	-1	N	4	b-	37	85	7	2500	Nb	1	-	1	•
Chester (Sealand)	1028.2	-1	NNW	3	c+	38	75	6	2500	St Cu	8	-	8	•
Harrogate	1026.9	0	NNW	3	cr	35	92	7	2500	Nb	9	-	9	•
Spurn Head	1023.0	0	N	6	bc-	37	85	7	4000	Cu Nb	4	A Cu	5	3
Birmingham (Edgbaston)	1026.7	-1	NNW	4	c	35	85	5	2500	St Cu	9	-	9	•
Cranwell	1025.5	-1	NNW	4	bc+	34	92	6	2500	St Cu	7	-	7	•
Gorleston	1020.8	-2	N'W	5	bc/s(h)	35	92	6	1500	Cu Nb	3	A Cu	6	0
Valentia (Cahirciveen)	1029.3	+1	E	4	b	38	65	8	2500	St	2	A Cu	2	3
Roches Point	1029.7	+1	NE	3	b	39	75	8	2500	St Cu	1	-	1	1
Pembroke (St. Ann's H.)	1028.4	+1	NE	2	bc	36	75	8	2500	Cu	4	-	4	2
Ross-on-Wye	1026.8	0	N	3	bc+	36	85	6	4000	St Cu	6	-	6	•
Leafield	1025.6	0	NNW	4	mmbc	34	85	4	2500	St Cu	6	-	6	•
Winchester (Worthy Dn.)	1024.7	-1	NW	3	bc-	36	85	6	2500	St Cu	6	-	6	•
S. Farnborough	1024.6	-1	NNW	3	bc-	37	85	6	2500	St Cu	6	-	6	•
London (Kew Obsy.)	1024.1	-1	NNW	2	bc-	38	75	5	1500	St Cu	6	-	6	•
Croydon	1023.7	-2	NW'N	3	c/r	38	85	5	1500	St	10	-	10	•
Shoeburyness	1022.4	-2	NNW	3	bc-	35	92	7	-	-	0	A Cu	5	•
Clacton-on-Sea	1021.8	-1	NW	4	bc	36	92	6	-	-	0	A Cu	3	1
Felixstowe	1021.8	-2	NW	3	bc	35	97	7	1500	St Cu	3	A Cu	6	3
Lympne	1022.0	-1	NW	4	c+	33	92	6	1500	St Cu	8	-	8	•
Scilly (St. Mary's)	1026.0	0	E'N	4	bc-	40	65	7	4000	Cu	4	-	4	2
Falmouth (Pendennis)	1027.0	0	NE'E	2	bc-	38	75	6	4000	St Cu	3	Ci	4	0
Plymouth (Cattewater)	1027.3	+2	NNE	3	b	37	85	6	4000	Cu	1	-	1	0
Portland Bill	1025.1	+1	NNE	2	b-	37	75	6	-	-	0	-	0	2
Southampton (Calshot)	1025.0	-1	NW	2	c	37	85	6	2500	St Cu	8	-	8	0
Dungeness	1022.0	-1	NW	2	bc-	34	97	7	2500	St Cu	5	-	5	1
Guernsey (Fort George)	[illegible]	0	N'E	4	c	39	65	7	1500	St Cu	10	-	10	4

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

Station	Height above M.S.L. in feet.	Weather Morning (24 hours ended 9h)	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Temp. Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	cS₀C	cm₀	bccm₀	40	30	26	Tr.	Tr.	0.4	•	•	4
Croydon	244	cmp(s)d	cmpc	cbc	38	30	27	Tr.	-	0.0	•	•	3
Greenwich (Royal Obsy.)	149	c	c	cpcbcpf	39	30	25	-	Tr.	0.0	83	92	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	40	31	25	-	-	0.2	78	81	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.3	•	•	•
Camden Square	110	c	co	•	37	31	-	-	-	•	•	94	•
Kensington Palace	80	bc	co	•	38	31	25	-	-	•	(AL) 18h 81	89	•
Hampstead Observatory	450	•	•	•	36	27	21	0.3	Tr.	0.6	•	97	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	0.8	10h 24th	<0.3	3h 25th
Kew Observatory	0.2	17h 24th	<0.1	24h 24th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 24th 17h. 45m. to 25th 6h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	17.0	7.28	57
δ Ursae Minoris	17.0	6.54	53

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

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET. 25th-26th January, 1929.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.49 7.47	12.6 12.6	16.23 16.25
Greenwich	7.51 7.50	12.12 12.13	16.34 16.36
Wick	8.36 8.34	12.25 12.25	16.14 16.16
Valentia	8.34 8.33	12.53 12.54	17.13 17.15

BEAUFORT NOTATION OF WEATHER.

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

SYMBOLS.

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

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

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

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

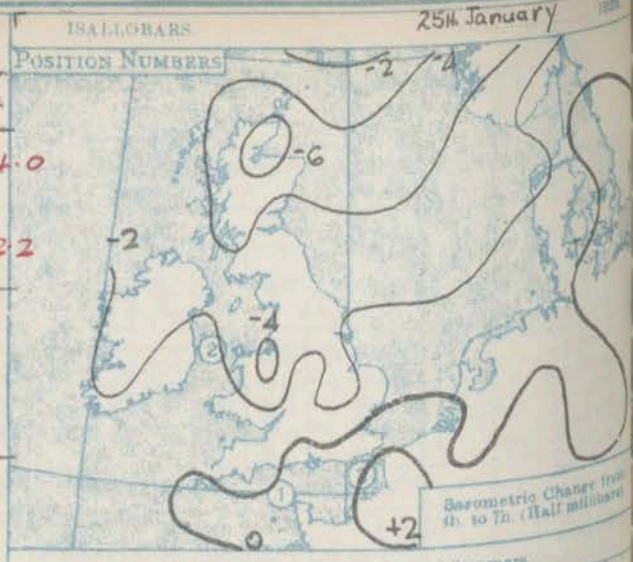
§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	Weather. 7h.-18h. 24th	Weather. 18h.-18h. 24th	Weather. 18h. 24th to 1h. 25th	Weather. 1h.-7h. 25th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm	began.	Rainfall.† Night. 18h.-7h. mm.	began.	Sun 24th Hours.
Lerwick	cpr₀	cpr₀	cip₀d	cp₀dbc	40	35	•	Tr	11·00	Tr.	21·00	2·8
Stornoway	c	c	bbc	bbc pr₀	39	32	•	-	-	1	1·30	00 4·0
Wick	c	b-bc	bbc	cpr bc	39	32	•	-	-	1	2·30	•
Tiree	b-bc	bc	bc	pd₀bc	41	37	27	-	-	0·2	24·00	6·8
Nairn	bc	bcpr	bc+	bc prs	37	31	•	0·2	17·30	Tr.	5·30	00 2·2
Aberdeen	bcprs₀b	bcprs₀pr₀	cirs	cirsc	40	33	30	0·3	18·00	2	21·00	3·6
Malin Head	c bc bv	bv	bbccbcv	bc	40	38	•	-	-	Tr.	6·30	5·9
Renfrew	bxmfb	b	bx m₀bc	bcbx	42	22	14	-	-	-	-	6·1
Edinburgh (Inchkeith)	bbc	bcb	bbcc	cbc	40	31	28	-	-	-	-	3·8
Leuchars	bbcxcbc	bcbbc	bc c	c, bcbx	40	29	23	-	-	-	-	4·2
Eskdalemuir	bx bc	bccb	brbcx	brbcx	37	25	19	-	-	-	-	5·0
Tynemouth	bcprh₀	bcprh₀	bcolrs	cps₀	41	33	29	2	18·00	5	21·00	•
Blacksod Point ...	c	cb	b	c	42	29	•	-	•	-	•	•
Donaghadee	bcb	bbc	bcx	bc	41	32	•	-	-	-	-	•
Birr Castle	cbz₀	bz₀	bcx	offx	42	20	9	-	-	-	-	4·4
Holyhead	bc	bc	bccbc	bc	41	37	32	-	-	-	-	5·5
Liverpool (Bidston) ...	b	bbcc	bbx	bxbcx	38	33	26	-	-	-	-	5·0
Chester (Sealand) ...	cbcm₀	bccm₀	bcbm₀	bbc	39	29	24	-	-	-	-	3·8
Harrogate	cbcprspr	cbcihrpr	ciris	bccis	38	32	29	1	11·00	2	21·00	1·6
Spurn Head	bcprq	bcpR	cprphc	cprc	41	33	•	1	9·00	0·3	22·00	4·7
Birmingham (Edgbaston)	bcm	c cm	cbc	bcc	37	32	30	-	-	-	-	1·8
Cranwell	bxcps₀cb	bcb	cprf	cmc	38	31	31	Tr	18·00	0·2	21·00	4·5
Gorleston	cpr₀q	bcpr₀	bcq pr₀	bccph₀	40	30	28	1	11·00	0·5	22·00	4·9
Valentia (Cahirciveen)	bc	bcb	by	b	43	30	28	-	-	-	-	6·1
Roches Point	cbcb	b	bx	bx	43	32	•	-	-	-	-	•
Pembroke (St. Ann's H.)	cbc	bc	bcb	bcb	42	33	•	-	-	-	-	6·4
Ross-on-Wye	cbmbcc	cb	cbc c	bcb bcc	39	33	26	-	-	-	-	3·2
Leafield	c	bcm	bc	bc	37	29	26	-	-	-	-	3·4
Winchester (Worthy Dn.)	of cm₀	cm₀bcm₀	bcm₀c	cbcm₀x	37	30	24	-	-	-	-	1·5
S. Farnborough ...	cpsc	cm₀	bcbm₀	bbcx	38	28	19	0·1	9·00	Tr.	-	0·0
London (Kew Obsy.) ...	cs₀c	cm₀	bccm₀	bccm₀x	40	30	26	Tr	18·00	Tr.	-	0·4
Croydon	ompsfd₀	cmpr₀	cbc	bccx	39	30	27	Tr	9·00	-	-	0·0
Shoeburyness	opscm₀	cm₀bc	bc	bc	37	26	23	Tr	9·00	-	-	2·2
Clacton-on-Sea ...	cpbc	bcpbc	bcc	cbc	38	29	22	1	9·00	-	-	4·2
Felixstowe	cpsbc	bcpr	bccps	cpsx	40	27	23	Tr	18·00	Tr.	21·00	4·3
Lympne	os₀cm₀	bccm₀	cm₀cbc	bccps₀bc	36	28	25	0·1	11·00	Tr.	4·30	0·7
Scilly (St. Mary's) ...	obc	bccbc	bcb	bc	44	37	•	-	-	-	-	3·8
Falmouth (Pendennis)	cm₀	ycb bm₀	bcbz₀	bz₀bc	41	34	•	-	-	-	-	2·3
Plymouth (Cattewater)	cm₀b	bm₀	bmw	bx	42	33	25	-	-	Tr.	-	5·5
Portland Bill	ombz₀	bcz₀	bzbcz₀	bcbz₀	40	34	•	-	-	-	-	•
Southampton (Calshot)	bccm₀	cbcm₀	cmbmcm	bcbm₀	38	33	29	-	-	-	-	2·0
Dungeness	bcc	cbc	bcbc	bccpsx	38	28	•	-	-	0·4	3·30	•
Guernsey	cym₀	c	co	bc	46	38	•	-	-	-	-	0·5



Observations from Cross-Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Barometer
2	24th 10h	Cambric	NEE	4	bc+	42	47	9
1	" 10h	St Julien	ENE	6	c+	41	48	6
3	25th 2h	Arundel	NNE	5	bc	38	45	5

GENERAL INFERENCE.

A ridge of high pressure stretches from north of Iceland to the Bay of Biscay while secondary depressions are likely to pass southward down the North Sea. Showers of wintry type will occur generally but be especially marked in eastern coastal districts. Northerly winds will prevail in most places and conditions be generally cold.

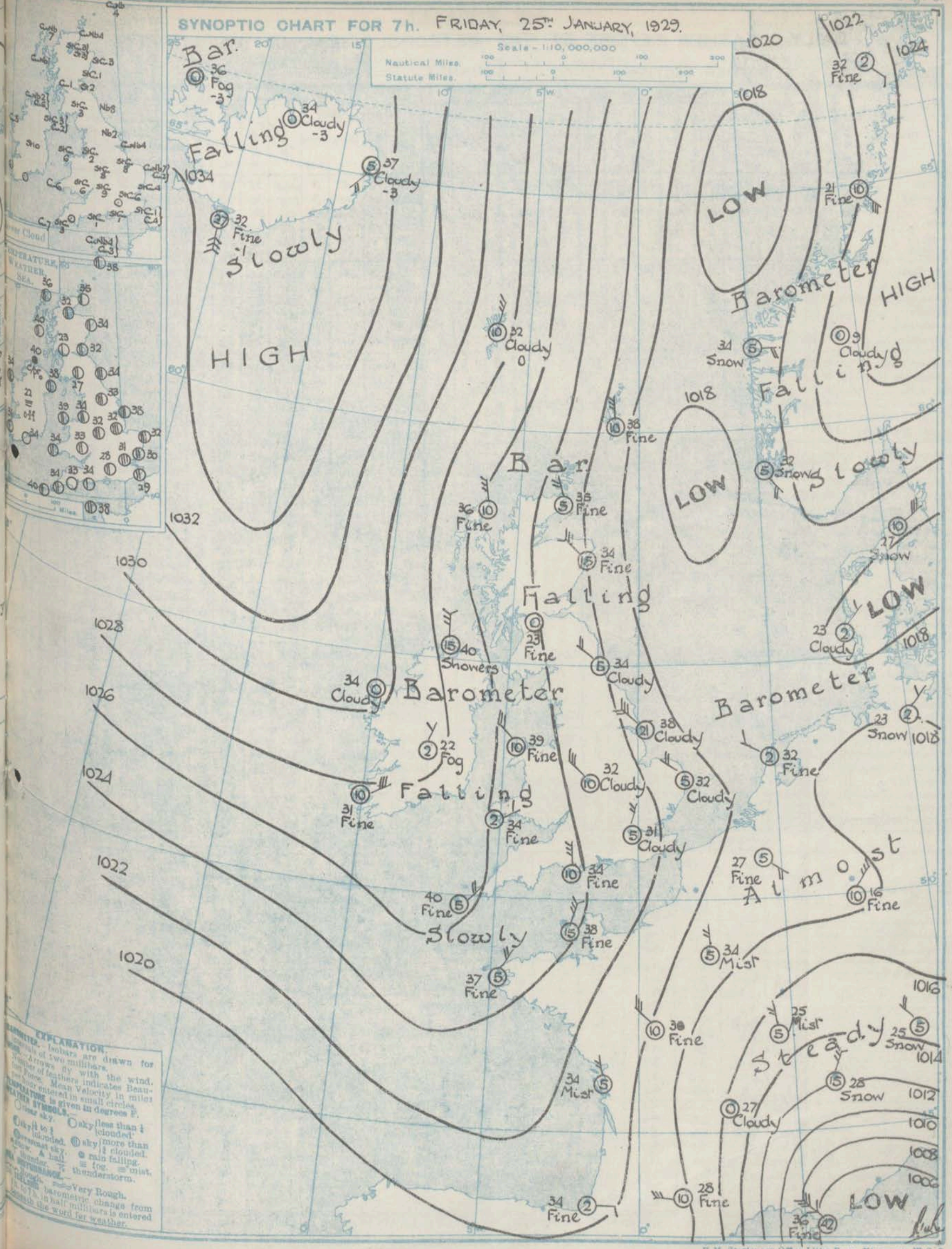
Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Friday, 25th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh northwesterly or northerly winds; cloudy; wintry showers; cold; ground frost at night.	Cold and cloudy with wintry showers and northerly winds.
5. S.W. England 6. South Wales 7. North Wales	Moderate northerly winds; cloudy; occasional wintry showers; cold; some ground frost at night.	
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 13 B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	As 1 - 4.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh northerly winds; cloudy with brighter intervals but occasional wintry showers; cold; sharp ground frost inland at night.	WHP.

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

† For code see page 1

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

SYNOPTIC CHART FOR 7h. FRIDAY, 25TH JANUARY, 1929.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Friday, 25th January 1929. No. 25

Stations.	Height above M.S.L. in feet.	Observations at 1h. G.M.T. 25th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Observations at 7h. G.M.T. 25th: Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	54	1024.0	-3	NW	3	c/p	35	92	8	1500	CuNb	5	Ast	9	1020.3	-2	N	3	bc/p	38	85	8	1500	CuNb	4	-	4	*
Stornoway	30	1029.2	-3	N	1	b-	*	*	8	*	*	*	*	2	1026.1	-4	N	3	bc/r	36	97	7	4000	CuNb	7	-	7	2
Wick	81	1026.7	-2	NNW	2	bc	34	97	8	2500	CuNb	3	Acu	5	1022.8	-6	NNW	2	bc	36	92	8	2500	CuNb	4	-	4	1
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.5	-3	N	4	bc	40	75	9	2500	CuNb	1	Acu	4	1
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.6	*	-	0	bc+	32	85	8	1500	St	6	-	6	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.0	-4	NW	4	bc-	34	92	8	4000	Scu	3	Acu	7	0
Malin Head	81	1030.0	-3	N	3	bc-	40	85	9	4000	Cu	1	Acu	6	1027.3	-3	N	4	c/pr	40	92	8	4000	Cu	8	-	8	1
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.1	-4	-	0	b	23	92	8	5700	Cu	1	-	1	*
Edinburgh (Inchkeith)	199	1027.0	-2	W	3	c	33	85	8	5700	Scu	6	Acu	9	1024.1	-3	WSW	3	bc	32	85	8	1500	St	2	Acu	6	1
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.7	-3	WSW	3	b-	30	85	8	4000	Scu	1	Acu	1	*
Eskdalemuir	724	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.5	-3	NE	3	bc	27	75	8	4000	Scu	3	Ci	4	*
Tynemouth	87	1025.2	-2	NW	3	c/p	34	85	7	1500	Nb	8	-	8	1023.1	-3	NW	2	c/p	34	85	7	1500	Nb	8	-	8	4
Blacksod Point ...	18	1031.1	0	-	0	b	32	75	8	*	-	0	-	0	1029.2	-2	-	0	c	34	85	8	*	Cu	8	-	8	3
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.3	-2	NNE	3	bc+	38	75	8	4000	Scu	5	-	5	3
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	*	NNE	1	f/o	22	92	3	450	St	10	-	10	*
Holyhead	28	1027.7	-3	N	4	bc	39	75	8	2500	Scu	3	-	3	1025.0	-3	NNW	3	bc	39	75	8	2500	Scu	6	-	6	1
Liverpool (Bidston) ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.0	-2	NW	2	bc+	34	85	8	2500	Scu	2	Acu	7	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.5	-4	NNW	2	bc+	30	85	8	4000	Cu	6	-	6	*
Harrogate	473	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.4	-2	NNW	3	c	33	85	7	4000	Nb	2	Cist	8	*
Spurn Head	39	1023.8	0	NW	3	c	35	92	7	4000	CuNb	5	Acu	8	1020.6	-1	NW	5	c	35	92	6	4000	CuNb	4	Acu	8	3
Birmingham (Edgbaston)	565	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.9	-1	NW	3	c	32	75	6	2500	Scu	8	-	8	*
Cranwell	350	1025.3	0	NNW	3	mc	32	97	4	450	St	9	-	9	1023.5	-2	NNW	4	c-	32	97	6	4000	Scu	8	-	8	*
Gorleston	14	1021.6	+1	NEN	5	bc	35	85	7	2500	CuNb	4	-	4	1021.0	-1	NNW	2	c/s(h)	32	97	7	1500	CuNb	9	-	9	1
Valentia (Cahirciveen) P	30	1028.6	0	SE	2	b-	35	97	9	-	-	0	-	0	1027.7	-2	ENE	3	b	31	85	8	-	-	0	Acu	2	3
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.2	-1	NE	3	b	34	92	8	-	-	0	-	0	1
Pembroke (St. Ann's H.)	150	1026.7	-1	NE	2	b-	35	75	8	-	-	0	Acu	2	1025.6	-1	ENE	1	bc+	34	92	8	4000	Cu	6	-	6	0
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.2	-2	NNW	1	bc-	33	85	8	4000	Scu	6	-	6	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.1	-2	NNW	3	c+	32	85	6	4000	Scu	9	-	9	*
Winchester (Worthy Dn.)	372	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.5	0	NW	3	c+	31	92	6	5700	Scu	2	Acu	8	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.0	0	NNW	1	bc	28	97	5	-	-	0	Acu	3	*
London (Kew Obsy.) ...	18	*	*	*	*	*	34	*	*	*	*	*	*	*	1023.0	0	NE	2	c+	31	85	5	2500	Scu	6	Acu	8	*
Croydon	244	1022.8	0	NW	4	bc	34	85	7	800	St	6	-	6	1022.8	0	NNW	3	c+	31	92	5	800	St	9	-	9	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.2	0	NNW	2	bc	29	92	7	4000	Scu	7	-	7	2
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.0	0	NW	4	bc	30	85	7	4000	Scu	4	-	4	2
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.9	0	NW	3	bc	29	92	7	4000	Scu	4	Acu	6	2
Lympne	350	1020.0	0	NW	5	bc-	32	85	7	2500	St	4	-	4	1021.2	+2	NW	4	b-	29	92	7	4000	CuNb	2	-	2	*
Scilly (St. Mary's) ...	163	1026.3	0	EN	3	bc+	38	85	8	4000	Cu	4	-	4	1026.1	0	NEE	2	bc	40	75	8	4000	Cu	7	-	7	2
Falmouth (Pendennis)	300	1026.3	0	NE	2	b	35	85	6	-	-	0	-	0	1025.9	-1	NNW	2	bc	34	65	7	4000	Scu	3	-	3	0
Plymouth (Cattewater)	88	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.6	0	N	2	b	33	92	8	-	-	0	-	0	0
Portland Bill	32	1023.5	-1	NW	3	bc	35	75	6	1500	Scu	3	-	3	1023.4	0	N	3	b-	34	85	6	2500	Scu	1	-	1	1
Southampton (Calshot)	10	1023.5	-1	N	3	b-	36	75	7	2500	Scu	2	-	2	1023.6	0	NNW	3	b	33	85	6	5700	Scu	1	-	6	0
Dungeness	20	1020.7	0	NNE	3	bc	33	85	8	4000	Cu	5	-	5	1020.8	+2	N	2	bc-	29	92	8	2500	Cu	5	-	7	1
Guernsey (Fort George) P	205	1024.0	-1	N	3	c+	40	75	5	2500	Scu	10	-	10	1024.1	0	NNE	4	bc	38	75	7	2500	CuNb	7	-	7	4

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 23rd 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	c9R	PRc	36	40	-	2	2.6
Douglas (I. o. M.) ...	b	b	33	40	-	-	7.3
Llandudno ...	bcb	bc	37	41	-	-	4.5
Colwyn Bay ...	bbcb	bcbbc	36	41	-	-	3.7
Rhyl	b	bc	35	41	-	-	5.8
Wallasey	b	bcb	31	39	2	-	5.9
Southport	bbc	cb	*31	40	-	-	7.0
Blackpool	bcb	bc	31	41	-	-	6.3
Ilkley	bcp	bc	31	39	-	0.1	2.8
Cleethorpes	cb	oR	33	40	1	2	3.5
Skegness	bxps	bprso	32	41	2	1	5.3
Aberystwyth ...	bbc	bbc	33	40	-	-	7.7
Bath	mbbco	mcbc	35	40	-	-	0.6
Cheltenham‖ ...	bcm	bcc	33	39	-	-	0.8
Leamington Spa ...	cb	cb	30	40	-	-	1.2
Lowestoft	bcprs	bcprs	31	40	0.5	0.2	4.7
Harwich & Dovercourt	rsbc	bcdbc	31	39	0.2	Trace	4.4
Maldon	o	bcpc	31	38	-	Trace	1.2
Southend	sobc	obcbc	31	37	Trace	0.2	2.5

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	czbcb	bbcbz	36	42	-	-	4.7
Penzance	cb	bcm	38	44	0.2	-	3.3
Paignton	omcyc	bcm	37	41	-	-	2.6
Torquay	cmcbc	bcm	37	42	-	-	4.1
Jersey	c	bc	30	42	Trace	-	2.3
Weymouth	mcb	b	35	41	-	-	4.9
Bournemouth ...	bc	bc	33	39	-	-	3.0
Ventnor ...	xbcz	bcc	33	38	-	-	2.8
Portsmouth (S'thsea)	bcc	cbc	34	39	-	-	0.5
Bognor	bcc	cbc	34	39	-	-	1.3
Littlehampton ...	bc	bc	33	39	-	-	2.5
Worthing	c	cbc	33	39	-	-	1.2
Brighton	ocbco	cbco	33	39	-	-	1.7
Eastbourne‖	bcos	bccbc	32	40	-	Trace	3.4
Hastings‖	ocbc	bccbc	32	38	-	-	2.8
Folkestone	octm	cbcm	32	38	Trace	Trace	1.7
Dover	moct	cbcm	33	37	Trace	Trace	1.2
Tunbridge Wells ...	omo	coom	31	38	Trace	-	0.1
Ramsgate	obcm	bcm	34	38	-	-	2.3
Margate	cbc	bc	34	37	-	-	0.0
Deal	oc	bcc	31	37	-	-	0.5

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24537 Saturday 26th January 1929.

Observations at 13h. G.M.T. 25th / Observations at 18h. G.M.T. 25th

Stations (For heights see p. 4).	Barom. at M.S.L. mb. (13h)	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground	Barom. at M.S.L. mb. (18h)	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Low Cloud Height Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Form	Total Amt. 0-10	Sea 0-9
Lerwick	1019.5	-1	N	4	bcjp	39	75	8	1500	CuNb	5	-	5	•	1020.5	0	N	4	bcjp	37	85	8	1500	CuNb	4	ASt	6	•
Stornoway	1025.0	0	N	2	bc-	39	92	7	4000	CuNb	5	ACu	6	•	1025.0	0	NNE	1	bc	35	85	7	4000	CuNb	3	ASt	4	1
Wick	1022.2	-1	NW	3	c	38	85	8	1500	CuNb	8	-	8	•	1021.8	0	NNW	3	bc	38	85	8	1500	CuNb	6	-	6	1
Tiree	1024.0	-2	N	4	bc/pr0	42	85	9	1500	CuNb	4	-	4	1	1023.6	0	N	5	bc	40	75	9	2500	CuNb	3	-	3	1
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.9	•	NNW	2	bc-	36	85	8	2500	Cu	3	-	3	•
Aberdeen	1019.7	-2	NW	4	c/Ts0	38	92	8	2500	CuNb	9	-	9	1	1019.8	0	NW'N	4	b	36	85	8	2500	CuNb	1	-	1	0
Malin Head	1024.8	-2	NW	3	c/pr0	42	92	8	4000	CuNb	8	-	8	•	1023.7	-2	N	4	bcjp	42	92	8	4000	Cu	6	-	6	1
Renfrew	1022.4	-2	NW	2	b	40	65	7	-	-	0	-	0	6	1021.3	-1	N	2	b-	38	65	7	-	-	0	-	0	•
Edinburgh (Inchkeith)	1021.5	-3	WSW	3	c	37	75	5	800	St	9	-	9	•	1020.6	0	WSW	3	bc	37	85	8	-	-	0	ACu	5	1
Leuchars	1020.9	-3	WNW	3	c	40	65	8	4000	StCu	8	-	8	4	1020.0	-1	NNW	3	bc	37	75	8	4000	StCu	3	-	3	•
Eskdalemuir	1021.3	-3	NW	3	b	37	55	8	-	-	0	ACu	1	3	1020.5	0	NNW	3	bc	33	75	7	4000	StCu	3	-	3	•
Tynemouth	1019.4	-3	NW	2	c	36	85	6	1500	Nb	8	-	8	•	1017.5	-2	NW	2	c/ps0	35	85	6	1500	Nb	8	-	8	4
Blacksod Point	1027.8	-1	W'S	2	bc	42	65	8	•	Cu	4	-	4	•	1025.5	-2	W	2	bc-	40	85	8	•	Cu	4	-	4	2
Donaghadee	1023.4	-3	NNE	3	bc/pr0	41	65	8	4000	CuNb	6	-	6	•	1022.2	-1	N	3	bc+	41	75	8	4000	CuNb	7	-	7	3
Birr Castle	1027.1	•	SW	1	c-	31	92	7	1500	Cu	8	-	8	•	1024.9	•	WSW	1	c	36	92	7	2500	StCu	8	-	8	•
Holyhead	1022.8	-3	N	3	c/ph0	40	75	8	4000	StCu	9	-	9	1	1021.0	-1	N'E	5	b-	39	75	8	2500	Cu	2	-	2	3
Liverpool (Bidston)	1022.0	-4	N'W	3	bc+	38	65	8	2500	Cu	4	-	4	•	1020.3	-2	N'W	4	c+	35	85	7	-	-	0	ACu	8	•
Chester (Sealand)	1021.9	-4	N'W	3	bc	39	75	6	4000	Cu	5	-	5	1	1020.4	-1	N'W	2	bc+	33	75	6	2500	StCu	3	ACu	6	•
Harrogate	1020.5	-1	W	3	c	37	65	7	4000	Nb	1	ACu	8	•	1018.8	-1	W	3	bc	34	65	7	4000	StCu	7	-	7	•
Spurn Head	1017.9	-1	NW	5	c	36	85	6	4000	CuNb	7	ACu	9	•	1016.0	-1	NW	6	c	37	85	6	4000	CuNb	6	ACu	9	3
Birmingham (Edgbaston)	1021.3	-3	NW	4	mb	37	65	4	2500	Cu	1	-	1	3	1019.9	-2	NW	3	bc	34	75	5	-	-	0	ACu	5	•
Cranwell	1020.5	-3	NW'N	4	c	37	75	6	1500	St	9	-	9	1	1018.8	-2	NW	3	c+	35	75	6	2500	StCu	10	-	10	•
Gorleston	1019.0	-2	WSW	1	os0	33	92	6	1500	Nb	10	-	10	•	1016.1	-3	W'S	2	os0s0	34	97	5	800	Nb	10	-	10	0
Valentia (Cahirciveen)	1026.9	-2	E'N	2	bc	40	65	9	4000	StCu	3	CiCu	7	1	1026.1	+1	-	0	bc	34	75	9	4000	StCu	1	CiCu	3	2
Roches Point	1027.0	-1	N	3	bc	39	75	8	-	-	0	CiSt	3	•	1025.8	+1	N	3	bc	37	75	8	2500	StCu	3	-	3	1
Pembroke (St. Ann's H.)	1023.4	-1	NNW	2	bc	40	65	8	4000	Cu	4	-	4	•	1021.7	-2	NNW	2	c+	40	55	8	2500	Cu	9	-	9	1
Ross-on-Wye	1022.0	-3	WNW	3	b-	38	75	8	4000	StCu	2	-	2	2	1020.3	-2	NW	1	bc	35	85	5	4000	StCu	6	ACu	7	•
Leafield	1021.1	-2	NW	4	b-	35	75	7	-	-	0	ASt	1	2	1019.8	-2	NW'W	3	bc	31	85	7	-	-	0	ASt	6	•
Winchester (Worthy Dn)	1021.3	-3	NW'W	3	bc	37	75	7	4000	Cu	1	Ci	6	1	1020.0	-1	W'S	2	bc+	32	75	7	4000	StCu	7	-	7	•
S. Farnborough	1021.2	-3	WNW	3	bc	37	75	6	2500	St	2	Ci	7	2	1019.6	-1	WNW	1	b-	34	75	6	-	-	0	ACu	1	•
London (Kew Obsy.)	1020.5	-3	NW'W	2	c-	36	75	5	800	StCu	8	-	8	1	1018.8	-2	W	2	mmbc	35	85	4	-	-	0	ACu	7	•
Croydon	1020.9	-3	NW'W	3	mmc	35	92	4	1500	StCu	10	-	10	2	1018.9	-3	W	3	mmc	34	85	4	2500	StCu	7	ACu	9	•
Shoeburyness	1020.1	-2	WNW	2	c/s	34	97	6	800	St	10	-	10	•	1017.9	-3	-	0	c	33	97	5	800	St	9	ASt	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.1	-2	NNW	3	c/s	33	92	6	4000	St	8	•	8	1
Felixstowe	1020.2	-2	WNW	2	os0	33	97	5	800	Nb	10	-	10	2	1017.6	-2	W'N	2	OTs0	34	92	5	800	Nb	10	-	10	1
Lympne	1020.2	-2	WNW	3	c	34	85	6	1500	StCu	8	ASt	10	3	1018.5	-2	WNW	2	os0s0	32	97	3	<150	St	10	-	10	•
Scilly (St. Mary's)	1025.2	-1	NE'N	2	bc	43	65	8	4000	Cu	7	-	7	•	1023.4	-2	NNE	5	bc	40	75	8	4000	Cu	3	CiSt	4	3
Falmouth (Pendennis)	1024.2	-2	N'W	2	bc+	40	65	8	4000	StCu	7	-	7	•	1022.6	-2	NW	2	bc-	38	75	7	4000	CuNb	6	-	6	0
Plymouth (Cattewater)	1023.7	-3	NW	4	c+	39	65	8	2500	StCu	9	-	9	1	1021.8	-2	NW	3	b-	38	92	6	2500	Cu	2	-	2	0
Portland Bill	1022.0	-2	N	3	b-	40	65	6	2500	StCu	1	ACu	2	•	1020.1	-1	N	3	c+	38	65	6	2500	Cu	8	-	8	1
Southampton (Calshot)	1021.8	-3	WNW	3	bc	37	75	6	4000	StCu	2	Ci	3	0	1020.4	0	W	2	b+	32	75	6	-	-	0	ACu	2	0
Dungeness	1020.1	-2	N	2	bc	35	85	7	1500	StCu	5	CiCu	7	•	1018.2	-3	N	2	ffo	33	97	2	<150	St	10	-	10	2
Guernsey (Fort George)	1023.3	-1	N	3	c+	39	75	8	2500	StCu	8	-	8	•	1021.9	0	N	2	c+	39	68	8	2500	StCu	10	-	10	1

London Observations. Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 9h-21h, other stations.	Heights above M.S.L. in feet	Weather Morning (24 Hours ended 9h)	Weather Afternoon	Weather Night	Temp. Max. Day °F.	Temp. Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs. (Yesterday)	Humidity 13h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	cm0r	cm0s0	cmc	37	32	26	Tr	-	0.0	•	•	S
Croydon	244	cofss0	cms0s0f	cmbbc	36	31	26	0.1	-	0.0	•	•	•
Greenwich (Royal Obsy.)	149	cis	csc	cbcbr	37	32	25	Tr	Tr	0.0	91	86	A
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	38	33	26	-	-	0.0	80	78	•
Regent's Pk. (Botanic Gdns).	188	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	csc	csco	•	34	33	-	Tr	-	•	•	84	•
Kensington Palace	80	co	ofo	•	37	33	26	-	Tr	•	(At 18h) 7.9	79	•
Hampstead Observatory	450	•	•	•	35	28	21	0.3	Tr	0.0	•	91	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time
1.8	25th 19h	0.3	26th 7h

Kew Observatory Max.	Time	Min.	Time
0.6	25th 18h	0.1	26th 7h

Pole Star Record at Greenwich Obsy.

Exposure from 25th 17 h. 45 m. to 26th 6 h. 45 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	13. 0	3. 02	23
δ Ursae Minoris	13. 0	2. 30	19

Code for State of Ground.
0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep).
4=Bare ground frozen (but more than 2 ins. deep).
5=Dew (or wet grass but not wet ground).
6=Skating to-day in 13h. and 18h. reports (Hoar frost in 1h. and 7h. reports).
7=Snow (thin layer, often not continuous).
8=Snow (deep, 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. Thurs 27th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.47 / 7.46	12.6 / 12.6	16.25 / 16.26
Greenwich	7.50 / 7.48	12.13 / 12.13	16.36 / 16.38
Wick	8.34 / 8.32	12.25 / 12.25	16.16 / 16.19
Valentia	8.33 / 8.31	12.54 / 12.54	17.15 / 17.17

Beaufort Notation of Weather.

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

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

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

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

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

§ Telegraphic Code for Surface Visibility.

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

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

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 25th	WEATHER. 18h.-18h. 25th	WEATHER. 18h. 25th to 18h. 26th	WEATHER. 18h.-7h. 26th	TEMPERATURES. MAX. Day. 7h.-18h.	TEMPERATURES. MIN. Night 18h.-7h.	TEMPERATURES. MIN on Grass	RAINFALL.† Day. 7h.-18h. mm.	RAINFALL.† Day. 7h.-18h. began.	RAINFALL.† Night. 18h.-7h. mm.	RAINFALL.† Night. 18h.-7h. began.	SUN 25th Hours.
Lerwick	bccprsq	bccprsq	cpr$_0$bc	bc	41	34	*	2	<8·00	1	<2100	3·8
Stornoway	c	bcpr$_0$bc	cprc	c	40	32	*	0·2	14·30	0·6	<2100	3·2
Wick	c	b-bc	b-bc	b-bc	41	32	*	–	–	–	–	*
Tiree	pdc	bcc	bc	bc	43	31	19	0·2	18·00	–	–	2·0
Nairn	bcpsc	cbcx	bcx	bc	38	30	*	0·3	18·00	–	–	0·3
Aberdeen	bccps$_0$prs	bcprs$_0$psh	bc	bccps	39	32	27	2	9·00	0·4	2·30	2·1
Malin Head	cpr$_0$	c bcpr$_0$	bcp$_0$bc	bc	44	33	*	0·6	18·00	Tr	<2100	1·5
Renfrew	bxm$_0$	bbcb	b bx	b bcx	42	26	16	–	–	–	–	6·2
Edinburgh (Inchkeith)	bccm$_0$m	cbc	bcb	bbccbc	40	34	28	–	–	–	–	4·4
Leuchars	bxb, c	cbc	bcbbc	bcbbc	40	32	26	–	–	–	–	5·0
Eskdalemuir	bcxb	bczybc	bcbx	bxbcx	38	28	24	–	–	–	–	7·0
Tynemouth	c	c	cbcpsh	bc	37	34	31	–	–	2	<2100	*
Blacksod Point ...	cbc	p$_0$b	p$_0$b	p$_0$	44	35	*	Tr	*	1	*	*
Donaghadee	bc	irsbc	bcx	bc	42	33	*	2	12·30	–	–	*
Birr Castle	offc	c	cid$_0$	offc	39	34	30	–	–	0·4	<2100	2·0
Holyhead	bccpr$_0$	pr$_0$prh$_0$	bbc	bc	40	39	36	Tr	11·00	–	–	0·9
Liverpool (Bidston) ...	bcxb	bc bbc	cbcbx	bcxcx	38	34	28	–	–	–	–	6·2
Chester (Sealand) ...	bcm	bcm$_0$	bcbm$_0$x	bcc	39	29	23	–	–	–	–	5·7
Harrogate	cbc	cbc	bc	bc	38	31	27	–	–	–	–	2·6
Spurn Head	cpsc	cpr$_0$c	cpr PHpsh	cpr$_0$c	37	33	*	0·5	11·00	1	22·00	0·0
Birmingham (Edgbaston)	bcb	bcm	bc	bccos$_0$	37	30	25	–	–	Tr	6·30	2·4
Cranwell	cps$_0$	cm$_0$	cbc bs m	cps$_0$c	37	29	27	0·1	9·00	0·1	24·00	0·5
Gorleston	cis$_0$	os$_0$o	os$_0$so	cqph$_0$	34	32	31	0·2	11·00	3	<2100	0·0
Valentia (Cahirciveen)	bbcv	bcvy	bvx	bcxcr$_0$s$_0$	43	29	23	–	–	Tr	6·30	6·3
Roches Point	bbc	bcx	bcxcx	cx	40	35	*	–	–	–	–	*
Pembroke (St. Ann's H.)	bc	bcc	CT R	cbcb	42	35	*	–	–	3	<2100	3·3
Ross-on-Wye	bcc	bbccbc	bccb	bxbcc	39	29	18	–	–	–	–	3·5
Leafield	cbc	bbc	bc	bcc	36	28	24	–	–	–	–	5·2
Winchester (Worthy Dn.)	cm$_0$bc	bbc	bcc	cbcx	39	29	24	–	–	–	–	4·6
S. Farnborough ...	bcxcps$_0$bc	bccb	bcc	cbcc	39	29	20	0·1	9·00	Tr	6·30	1·6
London (Kew Obsy.) ...	cm$_0$x	cm$_0$s$_0$	cmc	c	37	32	26	Tr	11·00	–	–	0·0
Croydon	cofwss$_0$	cms$_0$s$_0$f	cmb	bc	36	31	26	0·1	9·00	–	–	0·0
Shoeburyness	bccpsc	cm$_0$ps$_0$	cm$_0$bc	bc	36	32	29	0·2	11·00	–	–	0·0
Clacton-on-Sea ...	bccp$_0$	ohspc	cosSc	c	34	30	25	1	11·00	0·6	<2100	0·6
Felixstowe	bcm$_0$cs$_0$s	ors$_0$m$_0$	osso	cbc	35	33	31	0·2	11·00	0·1	<2100	0·2
Lympne	bccm$_0$	cos$_0$s$_0$m$_0$	os$_0$s$_0$Fcm	cmom$_0$	34	29	28 6	0·5 4	13·30	0·5	<2100	0·3
Scilly (St. Mary's) ...	bc	bcp$_0$	bcc	cp$_0$c	45	38	*	0·3	15·30	0·2	3·30	3·9
Falmouth (Pendennis)	bc	bccpr$_0$	bc	cr$_0$bc	42	37	*	Tr	16·30	0·2	1·30	5·2
Plymouth (Cattewater)	bxc	ch$_0$bm$_0$	bm$_0$bcx	bcbx	40	31	23	Tr	16·30	–	–	4·1
Portland Bill	bbcz$_0$	bcz$_0$	cx$_0$	cb	41	32	*	–	–	–	–	*
Southampton (Calshot)	bcmxbcm	bcm$_0$b	bm$_0$bcm$_0$	bc, bcx	39	28	23	–	–	–	–	4·5
Dungeness	bbc	bcofps	ofpsm	cmmbcc	36	29	*	0·1	15·30	0·1	<2100	*
Guernsey	bc	c	cbc	bc	41	36	*	–	–	–	–	3·3

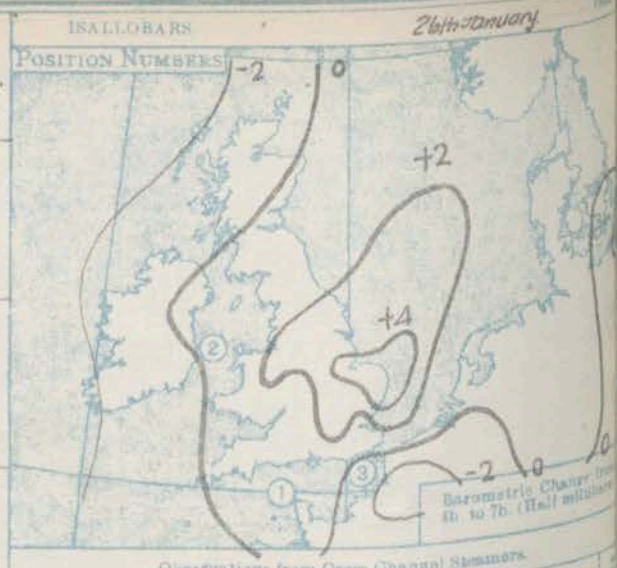
‡ For code see page 1

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

ISALLOBARS

26th January

POSITION NUMBERS



Observations from Cross Channel Steamers

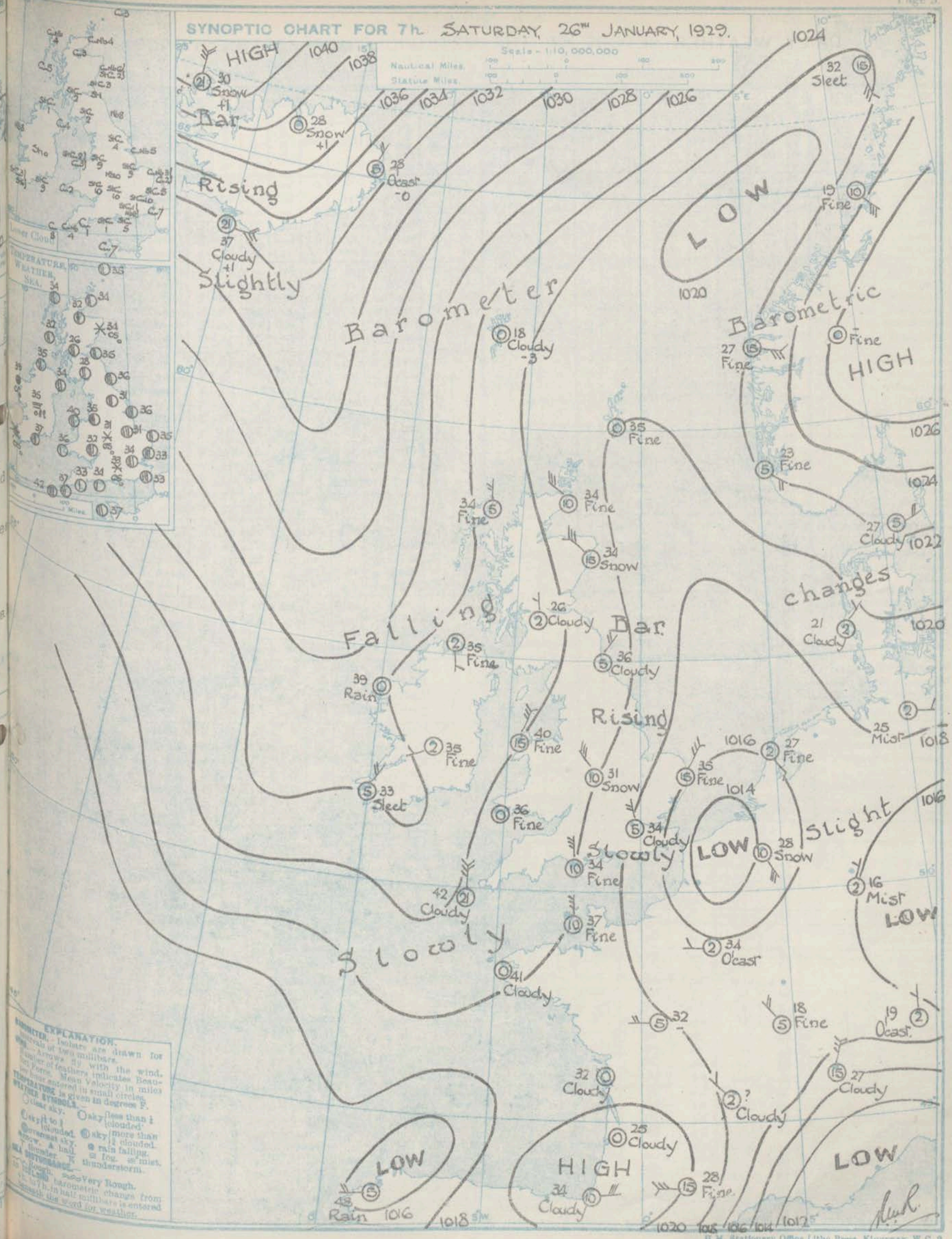
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	25th 10h	Cambria	N'E	4	Ct	39	47

GENERAL INFERENCE.

A ridge of high pressure stretches from north of Iceland to the Bay of Biscay while depressions centred over the north and south of the North Sea are moving slowly southward. Winds from a northerly point will prevail over the British Isles and weather be cold and cloudy with some bright intervals and occasional wintry showers.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Saturday, 26th January, 1929.	Farther Outlook.
1. S.E. England		
2. E. England	ALL DISTRICTS.	Similar.
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Moderate northerly winds; bright and cloudy periods; occasional wintry showers; cold; ground frost at night, sharp in places; local mist at night and in early morning.	
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. S.E. Scotland		
12. S.W. Scotland & Isle of Man		
13. A. W. Scotland / B. N.W. Scotland		
14. Mid-Scotland		
15. N.E. Scotland		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Saturday 26th January.....1929. No. 26....

Observations at 1h. G.M.T.....26th.....

Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10
Lerwick	84	1019·8	0	N'W	1	bc	36	93	8	1500	StCu	4	-	4
Stornoway	30	1024·3	0	NE	3	c	*	*	7	*	*	*	*	8
Wick	81	1022·2	+1	NNW	3	bc	32	92	8	2500	Cu	3	Cu St	6
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	81	1024·1	+1	N	2	bc	40	85	8	4000	Cu	4	A Cu	6
Renfrew	30	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	160	1021·6	+1	N	3	b	36	85	8	-	-	0	A Cu	1
Leuchars	39	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1019·1	+2	NNW	3	bc/sh	39	85	7	1500	Cu Nb	7	-	7
Blacknod Point ...	18	1025·1	0	N	1	bc	38	85	8	*	Cu	3	-	3
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	175	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1021·3	0	N'E	4	bc	40	75	8	2500	Cu	5	-	5
Liverpool (Bidston) ...	186	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	476	*	*	*	*	*	*	*	*	4000	Cu Nb	4	-	4
Spurn Head	29	1015·3	0	N'E	4	bc-	35	92	7	4000	Cu Nb	4	-	4
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	256	1018·0	0	NW'N	4	bcs	33	85	4	1500	St	7	-	7
Gorleston	14	1013·3	-2	NW	3	c	34	97	6	1500	St	9	-	9
Valentia (Cahirciveen)P	30	1025·5	0	NE	2	b	35	97	9	-	-	0	Cu Cu	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	150	1021·1	0	NE	2	cdzdz	37	97	7	2500	StCu	10	-	10
Ross-on-Wye	226	*	*	*	*	*	*	*	*	*	*	*	*	*
Lesafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	33	*	*	*	*	*	*	*
Croydon	244	1017·6	-2	W'N	3	b	31	85	6	2500	StCu	2	-	2
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1015·9	-2	W'N	3	mmc	30	97	4	4000	StCu	9	-	9
Scilly (St. Mary's) ...	163	1022·1	-2	NNW	5	c	41	75	8	4000	Cu	8	-	8
Falmouth (Pendennis)	200	1021·2	-1	NW	2	c+	39	85	8	4000	StCu	8	-	8
Plymouth (Cattewater)	52	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	52	1019·1	-1	N	3	c-	37	75	6	4000	StCu	8	-	8
Southampton (Calshot)	10	1019·0	-1	WNW	3	bc	33	86	7	-	-	0	A Cu	3
Dungeness	20	1016·4	-2	NW	2	c-	31	92	5	4000	StCu	10	-	10
Guernsey (Fort George) P	295	1019·4	-3	NW	3	c+	40	65	7	2500	StCu	10	-	10

Observations at 7h. G.M.T. 26th.....

Stations	Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-6	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9
Lerwick	1019·9	0	-	0	bc	35	92	8	1500	Cu	3	A Cu	6	*
Stornoway	1022·4	-2	N	2	bc	34	85	7	4000	Cu Nb	4	A St	6	2
Wick	1021·2	-1	NW	3	bc	34	85	8	1500	Cu Nb	4	Cu St	6	0
Tiree	1023·6	-1	NW	2	bc	32	92	9	2500	Cu	5	A Cu	7	1
Nairn	1022·0	*	-	0	bc+	32	85	8	2500	Cu	3	A Cu	7	*
Aberdeen	1021·5	0	NW	4	cs0	34	97	7	2500	Cu Nb	8	-	8	0
Malin Head	1023·8	-1	S	1	bc	35	97	9	5700	StCu	1	A Cu	7	1
Renfrew	1023·3	0	N	1	cD	26	92	8	5700	StCu	2	Cu St	8	*
Edinburgh (Inchkeith)	1021·7	+1	W	2	bc-	36	75	8	1500	St	1	A Cu	7	1
Leuchars	1022·0	+1	WNW	3	bc	34	75	8	4000	StCu	3	Ci	7	*
Eskdalemuir	1023·8	0	N	3	bcD	28	85	8	4000	StCu	2	Ci	5	2
Tynemouth	1021·4	+1	NE	2	c+	36	75	7	1500	Nb	8	-	8	2
Blacknod Point ...	1024·0	-1	-	0	cr0	39	85	8	*	Nb	8	-	8	2
Donaghadee	1022·9	0	NW	3	bc+	34	85	8	4000	Cu	4	A St	6	3
Birr Castle	1023·5	*	WSW	1	ffo	38	97	3	800	St	10	-	10	*
Holyhead	1021·9	0	NNE	4	bc	40	85	7	2500	Cu	5	-	5	3
Liverpool (Bidston) ...	1021·6	+2	NE'N	3	c+	35	75	7	2500	StCu	9	-	9	*
Chester (Sealand) ...	1021·3	+2	N	3	c+	35	85	7	2500	St	10	-	10	*
Harrogate	1021·9	+2	W	1	bc	31	86	8	5700	StCu	4	-	4	*
Spurn Head	1019·1	+2	NE'N	4	c	36	75	8	4000	Cu Nb	5	A Cu	9	4
Birmingham (Edgbaston)	1021·2	+1	NNW	3	os0	31	85	5	1500	Nb	10	-	10	*
Cranwell	1019·9	+4	NNW	2	c	31	92	8	4000	StCu	9	-	9	*
Gorleston	1016·9	+4	NE	4	bc	35	85	7	1500	Cu Nb	5	-	5	1
Valentia (Cahirciveen)P	1024·0	-2	NE	2	crs0	33	85	8	2500	St	9	-	9	4
Roches Point	1024·6	-1	N	3	c	37	92	8	1500	StCu	9	-	9	1
Pembroke (St. Ann's H.)	1021·4	0	-	0	b-	36	85	8	4000	Cu	2	-	2	1
Ross-on-Wye	1020·5	0	NNW	2	c	32	85	6	2500	StCu	10	-	10	*
Lesafield	1019·2	+1	N'W	4	c	32	85	6	1500	StCu	10	-	10	*
Winchester (Worthy Dn.)	1018·5	0	WNW	2	c+	31	85	8	2500	StCu	10	-	10	*
S. Farnborough ...	1018·3	+1	NNW	2	cs0	33	85	5	2500	Nb	10	-	10	*
London (Kew Obsy.) ...	1019·1	+3	N'W	2	c	34	85	5	1500	StCu	10	-	10	*
Croydon	1017·7	+1	N	3	c	34	92	6	800	St	10	-	10	*
Shoeburyness	1016·3	+1	NNW	4	bc	33	92	7	4000	StCu	6	-	6	2
Clacton-on-Sea ...	1016·0	+1	NNW	4	c	33	85	7	5700	StCu	5	A Cu	8	4
Felixstowe	1016·6	+4	N'E	4	bcjp	34	92	7	1500	Cu	6	-	6	*
Lympne	1014·3	-1	NNW	6	o	33	85	6	1500	St	10	-	10	*
Scilly (St. Mary's) ...	1021·5	-1	N	5	c	42	85	8	4000	Cu	8	-	8	3
Falmouth (Pendennis)	1021·2	0	NE'N	2	bc-	37	85	7	4000	Cu Nb	4	-	4	0
Plymouth (Cattewater)	1021·3	+1	N	2	b	33	85	8	4000	Cu	1	-	1	0
Portland Bill	1018·9	0	N	3	b	34	75	8	2500	StCu	1	-	1	1
Southampton (Calshot)	1018·7	+1	NNW	4	bc+	31	85	7	2500	StCu	5	A Cu	7	0
Dungeness	1014·9	-1	NNW	3	c+	33	85	7	1500	Cu	7	A St	10	3
Guernsey (Fort George) P	1020·0	0	N	3	bc	37	65	8	2500	Cu	5	-	5	1

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 25th. to 9h. 26th. °F.	Temperature. Max. 9h. 25th. to 9h. 26th. °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	bc	c	34	39	-	-	1·7
Douglas (I. o. M.) ...	xbc	cbx	30	38	-	-	6·4
Llandudno ...	c	cbc	31	40	-	-	2·1
Colwyn Bay ...	cbbc	bcc	32	40	-	-	1·9
Rhyl	bc	bc	27	41	-	-	2·4
Wallasey	xbc	b	32	38	-	-	5·6
Southport	bcb	b	‡30	38	-	-	4·2
Blackpool	cbc	bc	31	39	-	-	5·4
Ilkley	bc	bc	30	40	-	-	2·6
Cleethorpes	os	c	32	37	1	0·2	0·0
Skegness	psco	pso	30	36	1	0·5	0·0
Aberystwyth ...	cbcc	c	26	39	-	-	1·6
Bath	bcb	bbcc	32	39	-	-	4·6
Cheltenham ...	cbcb	bbc	33	39	-	-	4·6
Leamington Spa ...	cb	cb	32	39	-	-	1·3
Lowestoft	cprs	cprs	29	41	Trace	1	0·2
Harwich & Dovercourt	xbcd	ocds	28	34	Trace	Trace	0·5
Maldon	xcs	som	29	35	-	0·3	0·0
Southend	os	os	29	35	Trace	0·3	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xbco	cbcc	34	40	-	-	2·0
Penzance	b	bc	31	44	-	-	4·7
Falmouth	bmbbc	bm	30	44	-	-	5·5
Torquay	bzx	bbcbm	31	43	-	-	5·9
Jersey	bc	bc	36	42	-	-	2·5
Weymouth	xb	b	30	42	-	-	7·5
Bournemouth ...	b	b	29	40	-	-	6·3
Ventnor ...	xbz	bz	31	40	-	-	6·5
Portsmouth (S'thsea)	bcm	b	31	39	-	-	4·1
Bognor	bbc	bcb	33	39	-	-	5·7
Littlehampton ...	bc	bc	30	39	-	-	6·2
Worthing	bc	bc	29	39	-	-	6·7
Brighton	crcbc	bc	30	38	-	-	3·6
Eastbourne‖	bcc	bccoc	30	38	-	-	3·4
Hastings‖	bcbbc	ch0s0	30	37	-	Trace	3·3
Folkestone	sbcism	oisom	29	35	3	0·1	1·4
Dover	mbcc	cos0	31	36	4-	Trace	0·9
Tunbridge Wells ...	bcco	ocops	28	35	-	Trace	0·1
Ramsgate	bc	bc	31	35	1	-	1·4
Margate	bcc	cs0c	30	36	0·2	Trace	0·8
Deal	hsobc	co	31	34	3	0·3	0·8

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24538 Sunday 27th January 1929.

Observations at 18h. G.M.T. 26th

Stations. (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1018.5	-1	NW	1	c	39	75	7	1500	Cu	5	CiSt	8	•
Stornoway	1021.1	-2	N	1	bc	38	85	7	4000	StCu	2	ACu	7	•
Wick	1020.4	-1	WNW	3	c	36	92	8	2500	Cu	8	-	8	•
Tiree	1022.4	-1	NWW	1	bc	40	85	9	2500	StCu	5	-	5	9
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1020.8	-1	W	2	bc/p_o	36	92	7	2500	CuNb	1	Ci	4	7
Malin Head	1023.0	-1	W	3	bc/p	41	75	9	5700	CuNb	1	CiCu	3	•
Renfrew	1022.5	-1	WNW	2	c+	37	75	5	-	-	0	Ci	8	6
Edinburgh (Inchkeith)	1021.2	-1	SW	3	bc	38	75	5	800	St	5	CiSt	7	•
Leuchars	1021.4	-1	W	2	c+	39	65	8	5700	StCu	9	-	9	4
Eskdalemuir	1022.0	-2	-	0	bc	36	75	8	2500	Cu	1	Ci	4	3
Tynemouth	1021.7	0	W	1	bc/s	36	85	5	1500	Cu	5	-	5	•
Blackpool Point	1023.9	0	S	1	bc	45	85	8	-	Cu	5	-	5	•
Donaghadee	1023.2	+1	WNW	1	bc+	42	65	8	4000	StCu	5	-	5	•
Birr Castle	1023.7	•	SW	1	c-	37	92	6	1500	Cu	2	ASt	9	•
Holyhead	1022.4	0	E	1	bc	41	76	8	2500	StCu	4	Ci	4	1
Liverpool (Bidston)	1022.5	0	WNW	1	bc	37	65	6	2500	StCu	2	ASt	7	•
Lancaster (Sealand)	1022.2	0	-	0	b-	42	55	6	-	-	0	Ci	1	1
Harrogate	1022.1	+1	N	1	bc	37	65	7	4000	Cu	3	-	3	•
Spurn Head	1021.1	+1	NE'N	3	bc	38	65	8	4000	Cu	3	ACu	4	•
Birmingham (Edgbaston)	1022.1	0	NNE	3	bc	36	75	5	2500	StCu	5	-	5	3
Cranwell	1021.5	0	N	3	c+	35	75	6	2500	StCu	8	-	8	1
Gorleston	1019.5	0	N'E	4	cs+	37	97	2	220	CuNb	10	-	10	•
Valentia (Cahirciveen)	1024.0	-1	-	0	cd$_o$	41	92	7	220	St	10	-	10	1
Roches Point	1024.5	-1	N	2	c	39	85	8	-	-	0	CiSt	8	•
Pembroke (St. Ann's H.)	1022.4	+1	ENE	2	bc+	39	65	8	2500	Cu	3	ACu	7	•
Ross-on-Wye	1021.2	+1	NE'E	2	b	37	55	6	4000	Cu	1	-	1	2
Lossiemouth	1021.3	+2	N'E	4	b	35	65	8	4000	Cu	2	-	2	3
Winchester (Worthy Dn.)	1020.7	+2	N	3	bc	35	65	8	2500	StCu	6	Ci	6	3
S. Farnborough	1020.1	0	N	3	bc	36	65	7	2500	StCu	7	-	7	0
London (Kew Obsy.)	1019.9	0	NNE	3	bc+	36	65	6	2500	StCu	7	-	7	1
Croydon	1019.4	0	NNE	3	mmc	35	65	4	2500	Cu	8	-	8	3
Rhoburynness	1019.0	+1	NW	4	bc/s_o	35	92	8	1500	Nb	5	-	5	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1019.3	+2	NNW	4	c	35	85	7	1500	StCu	8	ACu	9	2
Lympne	1018.2	+2	N'W	4	css_o	33	92	~~8~~ 7	~~2500~~ 1500	StCu	9	-	9	~~8~~ 7
Folkestone	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sandy (St. Mary's)	1022.4	0	N'E	2	c	43	75	8	4000	Cu	8	-	8	•
Falmouth (Pendennis)	1022.2	+1	NE'N	2	bc+	40	65	8	4000	Cu	3	CiCu	6	•
Falmouth (Cattewater)	1021.5	+1	NE	3	bc	39	75	7	4000	Cu	1	Ci	6	1
Portland Bill	1020.2	+1	N	3	c	37	65	8	1500	StCu	7	Ci	8	•
Southampton (Calshot)	1020.0	+1	N	4	bc+	38	55	7	2500	StCu	4	-	4	0
Dungeness	1017.8	+2	NE	3	c-	36	85	8	2500	Cu	8	-	8	•
Guernsey (Fort George)	1020.3	0	N'E	3	c+	38	75	8	1500	StCu	10	-	10	•

Observations at 18h. G.M.T. 26th

Stations.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1016.9	-2	-	0	c/p	35	92	7	1500	CuNb	4	CiSt	8	•
Stornoway	1020.1	-1	NNW	1	bc	34	97	7	4000	CuNb	4	ACu	5	1
Wick	1019.3	-1	W	2	bc	34	92	8	2500	StCu	4	ASt	6	0
Tiree	1021.1	-2	SSE	2	cr_o	35	92	8	1500	Nb	8	-	8	1
Nairn	1019.5	•	W	1	bc	33	85	8	2500	Cu	4	ACu	7	•
Aberdeen	1020.3	0	WSW	1	bc	32	85	6	4000	StCu	1	CiCu	7	0
Malin Head	1021.9	-1	S	2	cr_o	38	92	7	4000	CuNb	8	ASt	10	0
Renfrew	1021.1	-1	NW	1	c	33	92	5	-	-	0	CiSt	9	•
Edinburgh (Inchkeith)	1021.0	-1	W	2	mmbc	36	85	4	800	St	4	-	4	0
Leuchars	1020.6	-1	W	1	bc-	32	92	8	5700	StCu	4	-	4	•
Eskdalemuir	1022.6	0	-	0	c	29	85	8	2500	StCu	1	CiSt	9	•
Tynemouth	1021.7	0	W	2	c	36	85	6	800	St	10	-	10	1
Blackpool Point	1022.7	0	-	0	bc	38	85	8	•	StCu	7	-	7	2
Donaghadee	1022.7	0	W	1	bc-	35	85	7	4000	StCu	4	CiSt	6	1
Birr Castle	1022.8	•	SSW	1	c	37	97	7	2500	StCu	9	-	9	•
Holyhead	1022.7	0	-	0	bc-	37	85	6	-	-	0	Ci	3	0
Liverpool (Bidston)	1022.9	+1	NNE	2	bc+	35	75	7	-	-	0	ASt	3	•
Lancaster (Sealand)	1022.6	+1	NWN	2	bc+	32	85	5	4000	StCu	2	ASt	7	•
Harrogate	1022.6	0	-	0	c+	31	85	7	-	-	0	ASt	9	•
Spurn Head	1021.8	0	NW	1	bc	33	85	7	4000	CuNb	4	-	4	3
Birmingham (Edgbaston)	1022.8	+1	NE	1	mb+	34	97	4	-	-	0	-	0	•
Cranwell	1022.6	+2	-	0	b	29	92	6	4000	StCu	1	-	1	•
Gorleston	1020.5	+2	NE	4	c	33	85	7	1500	CuNb	8	-	8	1
Valentia (Cahirciveen)	1023.3	-1	N'W	2	c/p_o	43	85	7	1500	St	10	-	10	2
Roches Point	1023.9	-1	N	2	c	36	85	8	2500	StCu	8	-	8	1
Pembroke (St. Ann's H.)	1022.4	+1	-	0	bc-	37	75	8	1500	StCu	3	Ci	4	1
Ross-on-Wye	1022.5	+1	SSE	1	mmc	32	85	4	2500	StCu	10	-	10	•
Lossiemouth	1022.4	+1	NNE	2	b	29	85	7	5700	StCu	1	-	1	•
Winchester (Worthy Dn.)	1021.4	+1	NW	1	b	29	85	8	4000	StCu	2	-	2	•
S. Farnborough	1021.3	+2	N'E	1	b-	30	85	6	2500	StCu	1	-	1	•
London (Kew Obsy.)	1021.7	+2	N	1	b	32	85	5	-	-	0	-	0	•
Croydon	1020.9	+2	N'E	2	mmbc	33	65	4	2500	Cu	3	-	3	•
Rhoburynness	1020.9	+2	N'W	2	b-	30	97	8	1500	Cu	1	-	1	•
Clacton-on-Sea	1020.3	+1	NNE	3	bc	32	85	7	-	-	0	ACu	4	1
Felixstowe	1020.7	+2	N'W	3	b	29	92	5	-	-	0	-	0	1
Lympne	1020.3	+1	N	3	bc/s	30	92	6	2500	StCu	5	-	5	•
Folkestone	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sandy (St. Mary's)	1022.3	0	-	0	c	41	85	7	4000	StCu	10	-	10	1
Falmouth (Pendennis)	1022.4	+1	NE	1	bc-	38	75	8	4000	StCu	3	-	3	0
Falmouth (Cattewater)	1022.5	+2	NNE	2	b	35	75	6	-	-	0	Ci	1	0
Portland Bill	1021.8	+2	NNE	3	bc-	34	65	8	2500	Cu	3	-	3	1
Southampton (Calshot)	1021.8	+2	N'W	2	bc	33	75	6	4000	StCu	3	-	3	0
Dungeness	1020.0	+3	NNE	2	c-	32	97	8	2500	CuNb	8	-	8	1
Guernsey (Fort George)	1021.4	+2	N	3	c	38	65	8	1500	StCu	9	-	9	3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Night. °F.	Temperature. Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity. 18h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility.§
		24 HOURS ENDED 9h.								YESTERDAY.		TO-DAY.	
Kew	18	bbcm$_o$	bm$_o$	bmbcm	37	25	16	-	r_r	4.3	*	*	
Croydon	244	bcc3$_o$	cb3	bfbmbcx	37	22	15	-	-	1.3	*	*	4
Greenwich (Royal Obsy.)	149	bbc	bcc63	b3mcsf	38	23	12	-	T_r	5.9	68	81	3
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	3.9	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	38	26	18	—		3.1	66	81	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	5.1	*	*	*
Camden Square	110			*	33	28	*	—	—	*	*	84	*
Kensington Palace	80	bc	bc	*	37	26	20	-	-	*	(At 18h.) 69.	74	*
Hampstead Observatory	450	*	*	*	35	23	11	T_r	-	6.2	*	95	*

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	22h 26th	0.3	7h 27th

Kew Observatory Max.	Time	Min.	Time
0.4	20h 26th	0.1	14h 26th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 26th 18 h. 0 m. to 27th 6 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	12.30	10.42	86
δ Ursae Minoris	12.30	10.42	86

CODE FOR STATE OF GROUND.

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

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

27th to 30th JANUARY, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.46	12.6	16.26
Greenwich	7.44	12.6	16.28
Wick	7.48	12.12	16.38
Valentia	7.47	12.13	16.39
	8.32	12.25	16.19
	8.30	12.26	16.21
	8.31	12.24	17.17
	8.30	12.24	17.19

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

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

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

SEA DISTURBANCE.

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

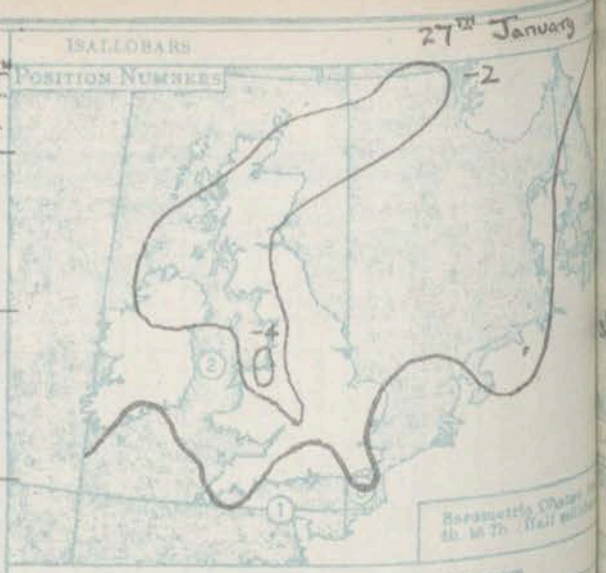
	Objects not visible at 55 yards.
0. Dense fog.	220 "
1. Thick fog.	550 "
2. Fog.	1,100 "
3. Moderate fog.	1¼ miles.
4. Mist or haze.	2½ "
5. Poor visibility.	6½ "
6. Moderate.	13½ "
7. Good.	31 "
8. Very good.	
9. Excellent visibility, beyond 31 m.	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 26th	18h.-18h. 26th	18h. 26th to 1h. 27th	1h.-7h. 27th	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min on Grass	Rainfall.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun 26th Hours.
Lerwick	bcc	cprs.	cprs.	cps.	40	33	•	Tr	15.30	Tr	<21.00	1.2
Stornoway	c	bcprbc	c	bopccm	38	31	•	0.2	16.30	1	1.30	0.9
Wick	b-bc	b-bc	c	coirsw	37	31	•	–	–	0.5	2.30	•
Tiree	bcc	c	r.cbc	prc	40	29	20	–	–	2	<21.00	0.2
Nairn	bc	bcx	bcc	spc	37	30	•	–	–	0.4	2.30	2.4
Aberdeen	cpsbcps.	bccbc	bc	bccx	37	28	20	1	<8.00	–	–	1.7
Malin Head	bcv	bccthr	cir	bccirw	42	35	•	1	15.30	7	<21.00	3.6
Renfrew	bcxmcz.	cz.	cm.	cos.s.	41	29	22	–	–	0.2	5.30	3.7
Edinburgh (Inchkeith)	bcm.m.	bcm.mm	bcmcm.m	cm.m.o	39	32	29	–	–	Tr	6.30	2.8
Leuchars	bcxc	c.bc	bcbxbcx	bcx	40	28	21	–	–	Tr	–	1.8
Eskdalemuir	bcxbbc	bccyc	cxbcx	bcxois.m.	39	19	18	–	–	Tr	6.30	4.3
Tynemouth	cis.ff	bccm.	ocbc	bcc	38	30	26	0.6	<8.00	–	–	•
Blacksod Point ...	p.bc	c	p.	pc	45	38	•	Tr	•	3	•	•
Donaghadee	m.bc	bc	bcbx	pr.cx	44	30	•	–	–	0.2	3.30	•
Birr Castle	offc	c	cm.	cm.	39	31	22	–	–	–	–	0.0
Holyhead	bccbc	bc	wbbcc	pr.cm.	44	34	28	–	–	0.2	24.00	4.4
Liverpool (Bidston) ...	cxbcz	z.cb	cbcx	cbcx	37	30	22	–	–	–	–	3.5
Chester (Sealand) ...	cmbcbzy	bzybcm	bcm.x	bcm.x	43	24	16	–	–	–	–	4.8
Harrogate	bc.	bbcc	cbc	bccx	37	29	25	–	–	–	–	5.5
Spurn Head	cbc	bc	mmcpyps.c	cos.smcz	39	32	•	–	–	Tr	24.00	6.1
Birmingham (Edgbaston)	cs.bc	bcbm	bmx	mbx	36	27	14	0.1	<8.00	–	–	3.4
Cranwell	cbcbbc	bcb	bcm.	bcmx	36	26	19	–	–	–	–	5.3
Gorleston	bis.c	ols.cqx	cqx	cbcx	37	25	20	1	<8.00	–	–	2.2
Valentia (Cahirciveen)	crs.cps.	cdorcd	cp.dbc	bcxcx	43	31	29	2	<8.00	1	<21.00	0.0
Roches Point	c	c	c	cwoffe	41	33	•	–	–	Tr	–	•
Pembroke (St. Ann's H.)	bbc	bc	bccm.	cr.m.	41	33	•	–	–	Tr	2.30	6.4
Ross-on-Wye	ccbbcb	byzbczo	cmbf	bmx	37	22	13	–	–	–	–	3.2
Leafield	cps bc	bbcb	b	b	36	25	9	–	–	–	–	5.0
Winchester (Worthy Dn.)	cbc	bcb	bbx	bxbcx	37	20	11	–	–	Tr	–	3.6
S. Farnborough ...	cbcm.	bccb	bm.	bm.cm.	36	18	11	–	–	Tr	–	2.5
London (Kew Obsy.) ...	bbcm.	bm.	bmx	bcm.x	37	25	16	–	–	Tr	–	4.3
Croydon	bccz.	cbz	bofbmx	bmbcm.x	37	22	15	–	–	–	–	1.3
Shoeburyness	bc	cpsbccbs	bx	cx	37	24	22	Tr	12.30	–	–	5.0
Clacton-on-Sea ...	cpbc	bcb bc	bc	bcc	36	26	20	0.4	9.00	–	–	4.9
Felixstowe	cbcis	csqbc psx	bxbeps.	bcm.	36	25	20	0.2	<8.00	Tr	<21.00	3.1
Lympne	cs.s.m.	cs.s.ssbc	cbcm.x	bccm.x	36	23	16	0.3	11.00	–	–	3.3
Scilly (St. Mary's) ...	cpo	c	c	c	44	38	•	0.2	9.00	–	–	0.1
Falmouth (Pendennis)	bc	bccbc	bc	bcc	40	33	•	–	–	–	–	6.1
Plymouth (Cattewater)	bxbc	bcbm.	bm.bcx	bxc	40	26	20	–	–	–	–	~~4.3~~ 5.2
Portland Bill	bbcc	cbc	bcbbcoz	ob	38	29	•	–	–	–	–	•
Southampton (Calshot)	bccxbcy	bcybbcm	bxm.	bcm.	38	25	23	–	–	–	–	4.6
Dungeness	cs.c	cpsc	cpsbc	bcbccx	38	23	•	Tr	11.00	Tr	<21.00	•
Guernsey	bccy	c	c	cbcb	39	33	•	–	–	–	–	1.0



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	10h 26th	Cambria	NE	4	bc	41	46
1	12h "	St Helier	NE	5	bc+	40	48
3	2h 27th	Arundel	NE	3	c-	36	44

GENERAL DIFFERENCE.

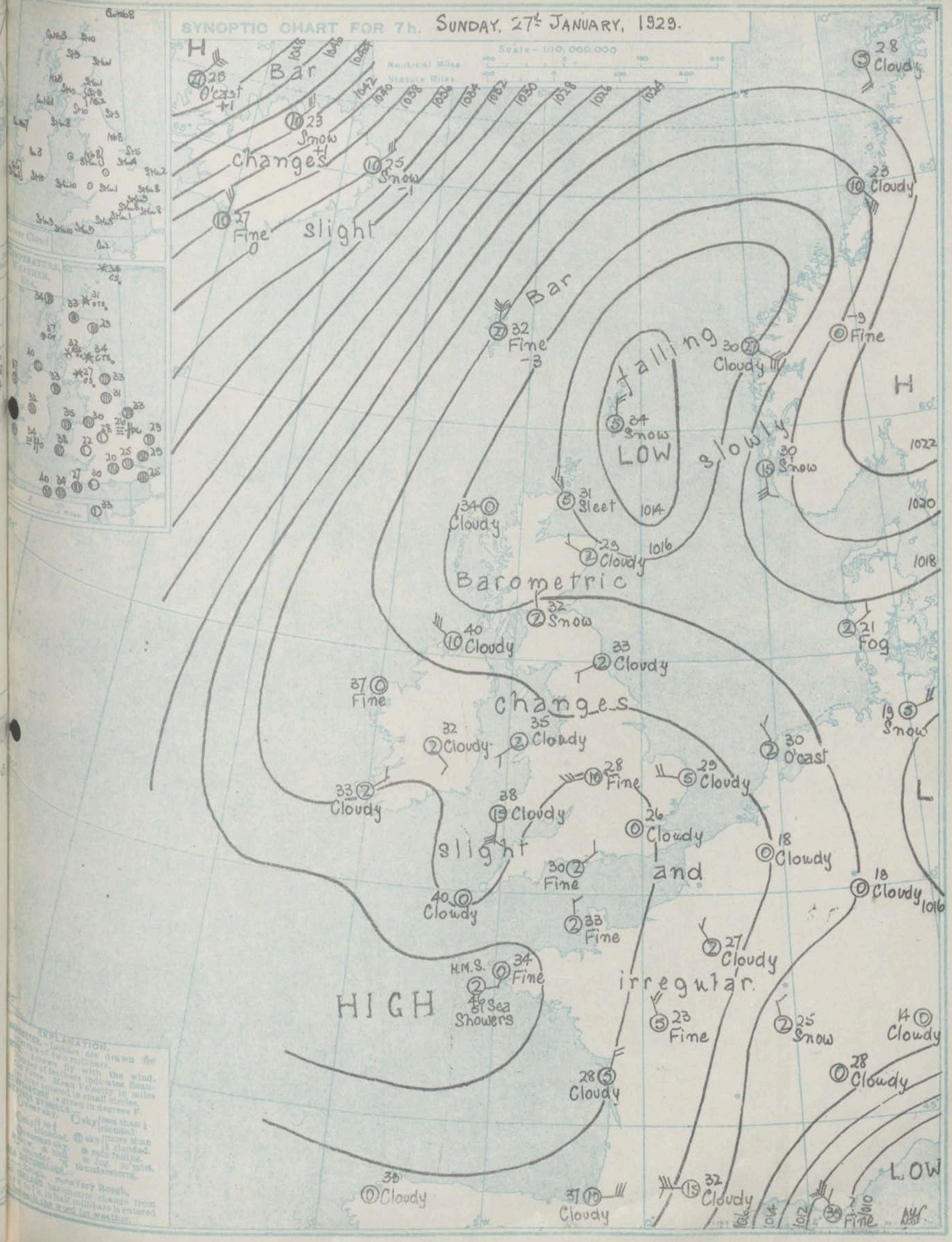
From an extensive anticyclone covering Arctic Regions high pressure ridges extend from Iceland to the Bay of Biscay, and from Spitzbergen to Russia, while relatively shallow depression continue to move southwards over the North Sea. Mainly cloudy cold weather will continue with wintry showers in all districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Sunday, 27th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light winds mainly from between west and north; cloudy, wintry showers; cold, night frost, severe locally; some mist, local fog night and morning.	No important change indicated.
5. S.W. England 6. South Wales	Light variable winds; mainly cloudy, local wintry showers; cold, night frost; local mist.	
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	As 1 - 4.	
17. N.W. Ireland	As 5.	
18. N.E. Ireland 19. S.E. Ireland	As 1 - 4.	
20. S.W. Ireland		

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1030 G.M.T. G. C. SIMPSON, F.R.S., Director.

† For code see page 1

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


SYNOPTIC CHART FOR 7h. SUNDAY, 27th JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
H
Bar
changes
slight
Bar
falling
slowly
LOW
H
Barometric
changes
and
irregular
HIGH
L
LOW
1022
1020
1018
1016
1014
1012
1010
28 Cloudy
23 Cloudy
-9 Fine
30 Cloudy
30 Snow
24 Snow
31 Sleet
29 Cloudy
34 Cloudy
32 Snow
40 Cloudy
33 Cloudy
21 Fog
19 Snow
30 O'cast
29 Cloudy
28 Fine
26 Cloudy
18 Cloudy
18 Cloudy
27 Cloudy
25 Snow
14 Cloudy
28 Cloudy
32 Cloudy
23 Fine
28 Cloudy
27 Fine
23 Snow
25 Fine
32 Fine
O'cast +1
23 Snow +1
25 Snow -1
27 Fine 0
37 Fine
32 Cloudy
35 Cloudy
33 Cloudy
38 Cloudy
40 Cloudy
30 Fine
33 Fine
34 Fine
46 Sea Showers
35 Cloudy
37 Cloudy

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 27th January 1929. No. 27.

Stations	Height above M.S.L. in feet	Observations at 1h. G.M.T. 27th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 6-6
Lerwick	54	1014.8	-1	-	0	cjp	35	92	8	1500	CuNb	5	ASt	9	*
Stornoway	30	1019.3	-2	N	1	c	*	*	7	*	*	*	*	10	1
Wick	81	1017.7	-1	W	2	c	33	92	8	1500	CuNb	4	ASt	8	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Malin Head	81	1020.5	-1	NW	2	bcjp	39	97	8	4000	Cu	7	-	7	0
Renfrew	26	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	100	1019.0	0	W	3	c	34	85	5	800	St	9	-	9	0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	7
Tynemouth	87	1020.2	-1	W	2	bc	31	85	6	1500	Cu	3	-	3	1
Blackpool Point ...	18	1022.1	0	-	0	cfpo	40	92	8	*	CuNb	8	-	8	2
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1
Birr Castle	172	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1021.4	-1	SW'S	1	cfo	37	85	6	1500	StCu	10	-	10	0
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	39	1020.8	0	W	2	c	34	92	6	4000	StCu	10	-	10	0
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	238	1022.5	-1	W	1	mc	29	92	4	4000	StCu	9	-	9	0
Gorleston	14	1021.6	0	NW'W	2	c	33	85	7	2500	CuNb	3	ACu	9	0
Valentia (Cahirciveen) P	30	1023.2	0	S	1	bc-	41	97	9	*	Nb	4	-	4	1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Pembroke (St. Ann's H.)	150	1021.8	0	ESE	2	c+	35	85	7	2500	StCu	9	-	9	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester (Worthy Dn.)	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	18	*	*	*	*	*	27	*	*	*	*	*	*	*	*
Croydon	244	1022.4	0	WNW	1	fb-	35	92	4	-	-	0	Cc	2	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	350	1020.7	0	NW'N	3	b-	26	92	6	-	-	0	ACu	2	*
Scilly (St. Mary's) ...	163	1022.0	0	E'N	2	c	39	75	8	4000	Cu	9	-	9	1
Falmouth (Pendennis)	200	1022.6	0	NNE	2	bc	36	75	8	4000	Cu	7	-	7	0
Plymouth (Cattewater)	82	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Portland Bill	52	1022.5	+1	NE	3	c	33	75	6	-	-	0	CSt	10	2
Southampton (Calshot)	10	1022.7	0	N'W	2	b	30	85	6	-	-	0	-	0	2
Dungeness	20	1020.8	0	NW	1	bc	25	85	7	4000	Cu	5	CCu	6	1
Guernsey (Fort George) P	295	1022.2	0	NNE	2	c+	37	65	7	2500	StCu	10	-	10	0

Stations	Observations at 7h. G.M.T. 27th: Barom. at M.S.L. mb.	Change in 3 Hours.	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.‡ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 6-6
Lerwick	1013.2	-1	N	2	cs.	34	92	7	1500	CuNb	8	ASt	9	*
Stornoway	1017.1	-1	-	0	c	34	97	7	4000	CuNb	3	ASt	10	0
Wick	1016.0	-2	NW	2	ors.	31	92	8	2500	St	10	-	10	1
Tiree	1017.4	-2	NW	3	cr	37	85	8	1500	Nb	9	-	9	*
Nairn	1016.3	*	-	0	c/s	33	85	7	1500	St	9	-	9	0
Aberdeen	1016.7	-2	WNW	1	cw	29	85	7	4000	StCu	1	CSt	8	0
Malin Head	1018.3	-2	NW	3	cjp	40	85	8	5700	CuNb	1	CSt	9	0
Renfrew	1018.1	-2	N	1	os.s.	32	97	6	1500	St	10	-	10	*
Edinburgh (Inchkeith)	1017.6	-1	W	2	ors.	34	92	6	450	St	10	-	10	0
Leuchars	1017.0	-2	WSW	2	bc	29	92	8	4000	StCu	1	Cu	7	*
Eskdalemuir	1019.1	-3	-	0	os.	27	97	5	220	St	10	-	10	*
Tynemouth	1019.1	-1	WSW	1	c	33	85	7	1500	St	9	-	9	1
Blackpool Point ...	1020.8	-1	-	0	bc	37	92	8	*	CuNb	7	-	7	2
Donaghadee	1020.1	-2	WNW	1	c-	33	97	7	4000	StCu	8	-	8	1
Birr Castle	1021.4	*	SE	1	c	32	92	5	1500	Cu	3	ASt	9	*
Holyhead	1020.3	-1	SW'W	1	c	35	97	6	-	-	0	ACu	9	0
Liverpool (Bidston) ...	1020.7	-2	SW	2	c	30	75	6	4000	Nb	9	-	9	*
Chester (Sealand) ...	1020.9	-4	SSE	2	bc+	25	85	5	2500	StCu	6	ASt	7	*
Harrogate	1020.4	-1	SW	3	c	31	85	7	4000	Nb	8	ACu	9	*
Spurn Head	1019.7	0	NW'W	4	c	33	85	5	2500	St	5	ACu	8	3
Birmingham (Edgbaston)	1022.1	-1	WSW	3	b	28	65	7	-	-	0	CSt	2	*
Cranwell	1022.1	0	W'S	2	fbc-	26	85	3	4000	StCu	4	-	4	*
Gorleston	1020.9	0	W'N	2	c	29	85	7	5700	StCu	2	ASt	10	0
Valentia (Cahirciveen) P	1022.0	-1	NE	1	c	33	92	8	2600	Cu	8	-	8	1
Roches Point	1022.9	0	N	3	fo+	34	97	12	800	St	10	-	10	0
Pembroke (St. Ann's H.)	1021.3	-1	SSW	3	c	38	75	7	2500	StCu	10	-	10	1
Ross-on-Wye	1021.4	-1	-	0	b	22	97	5	-	-	0	CCu	1	*
Leafield	1022.0	-2	W'S	3	b	26	85	7	5700	StCu	1	-	1	*
Winchester (Worthy Dn.)	1022.8	0	-	0	bc	22	92	7	4000	StCu	1	ACu	6	*
S. Farnborough ...	1022.6	0	W	1	c+	20	97	6	2500	StCu	8	-	8	*
London (Kew Obsy.) ...	1022.3	0	-	0	c+	26	92	5	2500	StCu	9	-	9	*
Croydon	1022.8	0	WSW	1	c+	25	92	5	2500	St	4	ASt	8	*
Shoeburyness	1021.8	0	NW	3	c	29	97	7	1500	St	3	ASt	9	*
Clacton-on-Sea ...	1021.3	0	NNW	4	c	29	85	7	4000	StCu	8	-	8	1
Felixstowe	1021.3	0	NW	4	c	30	85	6	1500	StCu	8	ASt	9	0
Lympne	1021.2	+1	NW'N	3	c	27	85	6	7200	StCu	9	-	9	*
Scilly (St. Mary's) ...	1022.0	0	-	0	c	40	75	7	4000	StCu	9	-	9	1
Falmouth (Pendennis)	1022.5	0	NNE	1	c+	34	85	7	4000	StCu	10	-	10	0
Plymouth (Cattewater)	1022.9	-1	ENE	1	c	27	97	7	5700	StCu	9	-	9	0
Portland Bill	1022.5	0	NE	1	b	30	75	8	2500	StCu	1	ACu	2	2
Southampton (Calshot)	1022.6	0	NW'N	3	b+	26	85	6	2500	StCu	1	ACu	2	1
Dungeness	1021.2	-1	NNE	1	c+	25	85	7	4000	StCu	8	-	8	0
Guernsey (Fort George) P	1022.7	+1	N	1	b-	33	75	8	2500	Cu	2	-	2	0

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 26th January 1929

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 25th to 9h. 26th °F.	Temperature. Max. 9h.-17h. 26th °F.	Rainfall.† Night 17h.-9h. 25-26 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	o	31	36	2	-	0.1
Douglas (I. o. M.) ...	xb-bc	b-bc	32	42	-	-	5.7
Llandudno ...	cbc	b	35	44	-	-	5.1
Colwyn Bay ...	cb	b	35	43	-	-	5.7
Rhyl	bc	bcc	?	43	-	-	5.2
Wallasey	xm.bc	bcm.	31	38	-	-	1.5
Southport	bc	bbcz	*32	37	-	-	6.3
Blackpool	cbc	bbcc	31	40	-	-	6.5
Ilkley	bc	bc	27	41	-	-	4.3
Cleethorpes	b	b	33	37	2	-	6.2
Skegness	bbsc	bcb	32	38	1	Trace	6.1
Aberystwyth ...	xzbc	bc	(34)	40	-	-	5.1
Bath	cbcb	cbcb	30	39	-	-	3.8
Cheltenham ...	cm.bc	bbc	28	38	-	-	4.1
Leamington Spa ...	bc	bcm.	31	38	-	-	5.0
Lowestoft	cbsbc	bcbsbc	29	36	2	1	2.5
Harwich & Dovercourt	bcs	bcs	31	37	0.1	0.2	3.5
Malden	bcb	bbcc	31	36	-	-	6.0
Southend	bbcs	bcsc	30	37	-	Trace	5.4

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	xcbc	bc	(34)	41	-	-	5.0
Penzance	bcb	bcb	37	44	-	-	3.3
Paignton	bxbbc	bcm	29	39	-	-	5.1
Torquay	bbcbz	bz	29	39	-	-	4.3
Jersey	c	c	36	41	-	-	0.7
Weymouth	xb	b	29	39	-	-	5.8
Bournemouth ...	b	b	28	40	-	-	5.6
Ventnor ...	xbc	b	29	39	-	-	6.6
Portsmouth (S'thsea)	b-bc	b-bc	30	40	-	-	5.7
Bognor	b	b	30	38	-	-	7.0
Littlehampton ...	bcb	bbc	30	39	-	-	6.7
Worthing	bc	bc	31	38	-	-	6.0
Brighton	bcb	bc	31	39	-	-	7.4
Eastbourne	bc	bbcm	32	39	-	-	5.3
Hastings‖	cbcc	csbch	30	37	0.4	0.3	4.5
Folkestone	sbc	bccsm	30	37	1	0.1	4.6
Dover	bcis	bccos	31	37	1	Trace	3.0
Tunbridge Wells ...	bcobs	oc	29	39	-	Trace	4.0
Ramsgate	bc	bcoso	31	38	2	1	5.4
Margate	bc	bccs	31	38	1	0.4	4.2
Deal	cbcb	bcs.	31	37	1	Trace	5.2

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

‖ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum is for the period 11h.-9h. * 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 24,539 Monday 28th January 1929. Page 1.

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	1011·8	-3	SW	1	bcjp	37	65	8	1500	Cu.Nb	4	Ci.	5	•
Stornoway	1018·1	+1	NNE	3	bc-	35	85	8	4000	Cu.	3	Ci.St.	6	•
Wick	1016·3	0	WNW	2	c	35	85	8	1500	Cu.Nb	8	Ci.St.	10	•
Tiree	1016·9	0	NE	4	bcr₀	38	92	8	2500	Nb.	7	-	7	2
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1016·1	-1	WNW	2	cs₀s₀	35	92	6	-	-	0	A.St.	10	
Malin Head	1017·6	-2	NW'N	3	bcr	41	92	9	5700	Cu.Nb	2	Ci.Cu.	6	•
Renfrew	1016·6	-2	WNW	1	c⊕	35	97	5	450	St.	6	Ci.St.	10	7
Edinburgh (Inchkeith)	1015·8	-1	WNW	2	od₀d₀	35	97	4	450	St.	10	-	10	•
Leuchars	1016·3	-1	W	2	cs₀	35	85	6	-	-	0	A.St.	10	4 (red)
Eskdalemuir	1016·5	-4	SE'S	1	os₀s₀	32	97	6	450	St.	10	-	10	7
Tynemouth	1017·5	-2	SW	1	ff₀	37	85	3	1500	St.	10	-	10	•
Blacksod Point	1019·4	-1	S	2	bc	45	75	9	*	Cu.Nb.	6	-	6	•
Donaghadee	1018·5	-2	W	2	bc/r	38	92	7	4000	St.Cu	5	A.Cu.	6	•
Birr Castle	1019·8	•	S	2	c	40	92	6	1500	Nb.	6	A.St.	10	•
Holyhead	1018·4	-2	SW'W	3	or	39	97	5	800	Nb.	10	-	10	1
Liverpool (Bidston)	1018·4	-2	SW'W	3	bc	38	85	6	1500	St.	2	Ci.St.	7 (red 9)	•
Chester (Sealand)	1018·9	-3	SW'W	2	bc-	39	85	6	2500	St.Cu	7	-	7	3
Harrogate	1018·4	-1	SSW	3	fc	34	75	3	<150	St.	5	A.Cu.	8	•
Spurn Head	1018·9	0	W'S	1	c	37	75	5	1500	St.	5	A.Cu.	8	•
Birmingham (Edgbaston)	1021·0	-1	SW	2	c+	33	75	6	4000	St.Cu	9	-	9	3
Cranwell	1020·8	-1	WSW	2	mmbc	36	75	4	4000	St.Cu.	1	Ci.	4	1
Gorleston	1020·5	0	NW'W	1	bc	34	92	5	-	-	0	A.Cu.	5	•
Valentia (Cahirciveen)	1021·4	-1	SSE	1	cd₀	43	92	7	800	St.	8	A.Cu.	9	1
Roches Point	1021·8	-1	N	3	ffbc	37	97	3	800	St.	4	-	4	•
Pembroke (St. Ann's H.)	1020·3	-1	SW	1	bc-	43	65	8	2500	St.Cu	4	Ci.St.	6	•
Ross-on-Wye	1021·1	-1	SW	3	c	34	75	5	2500	St.	10	-	10	2
Leafield	1021·1	0	W'S	2	c	33	75	6	5700	St.Cu	8	-	8	3
Winchester (Worthy Dn.)	1021·8	-2	SW'W	2	bc+	36	65	7	-	-	0	A.Cu.	6	3 (red 6)
S. Farnborough	1021·3	-1	WNW	1	b	38	65	7	-	-	0	Ci.Cu.	1	0 (red)
London (Kew Obsy.)	1021·1	-3	WSW	2	b	34	75	5	-	-	0	-	0	3
Croydon	1021·2	-2	W	2	b-	36	65	5	-	-	0	-	0	3
Shoeburyness	1020·8	-1	WNW	2	mmc	32	92	4	-	-	0	A.Cu.	9	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1020·5	-1	W	1	b	32	85	5	-	-	0	-	0	7
Lympne	1020·9	-1	W'N	2	c/s	30	85	5	2500	St.	9	-	9	7
Scilly (St. Mary's)	1021·8	0	-	0	c	45	65	8	4000	St.Cu.	8	-	8	•
Falmouth (Pendennis)	1021·7	-1	SW	2	c-	41	75	8	4000	St.Cu.	8	-	8	•
Plymouth (Cattewater)	1022·2	-2	E	3	c	36	85	6	7200	St.Cu	9	-	9	1
Portland Bill	1022·0	0	SW	3	c	39	55	8	4000	St.Cu	9	-	9	•
Southampton (Calshot)	1022·3	-1	WNW	2	b+	35	65	7	-	-	0	A.Cu.	2	0
Dungeness	1021·3	0	NW	1	c+	33	85	7	2500	St.Cu	10	-	10	•
Guernsey (Fort George)	1023·1	-1	ESE	1	b	40	65	8	4000	Cu.	1	-	1	•

Observations at 18h. G.M.T. 27th

Stations	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0–12	Weather	Temp. °F.	Humidity %	Visibility.§ 0–9	Cloud Low Height Feet	Low Form	Low Amt. 0–10	Upper Form	Total Amt. 0–10	Sea 0–9
Lerwick	1011·1	-1	-	0	cjp	33	92	7	1500	Cu.Nb.	5	A.St.	9	•
Stornoway	1018·1	0	N	3	bc	32	85	8	4000	Cu.Nb	4	-	4	2
Wick	1015·7	0	NW	2	c	31	85	8	1500	Cu.Nb	6	Ci.St.	8	0
Tiree	1017·9	+1	N'E	5	bc	37	85	9	2500	Cu.Nb	4	-	4	1
Nairn	1016·4	•	W	1	bc	30	85	8	2500	Cu.	6	•	6	•
Aberdeen	1016·1	0	NW	2	cs₀s₀	35	85	6	-	-	0	A.St.	10	0
Malin Head	1017·6	+1	N'E	3	bc/r	40	85	8	4000	Cu.	3	-	3	1
Renfrew	1016·8	0	NW	1	mc	33	97	4	800	St.Cu.	8	-	8	•
Edinburgh (Inchkeith)	1015·7	+1	N	2	ors₀	34	92	7	800	Nb.	10	-	10	0
Leuchars	1016·6	+1	-	0	cs₀	32	97	6	2500	St.	4	A.St.	9	•
Eskdalemuir	1016·1	0	-	0	c	31	97	6	800	St.	9	-	9	•
Tynemouth	1015·7	-2	SW	2	ors₀rs₀	34	97	3	800	Nb.	10	-	10	1
Blacksod Point	1017·1	-1	N	4	bc	42	85	8	•	Cu.Nb.	7	-	7	5
Donaghadee	1018·2	0	W	2	bc-	36	92	7	4000	St.Cu	3	A.Cu.	8 (red 5)	2
Birr Castle	1018·0	•	S	1	c-	38 (red)	97	6	2500	St.Cu.	8	-	8	•
Holyhead	1017·2	-1	WNW	4	c	41	85	8	2500	St.Cu	1	Ci.St.	9	1
Liverpool (Bidston)	1016·6	-2	WSW	3	cr-	35	97	7	2500	Nb.	10	-	10	•
Chester (Sealand)	1017·4	-1	SW'S	1	mmc	35	85	4	2500	St.Cu	9	-	9	•
Harrogate	1016·9	-1	S	3	oss	32	92	3	<150	St.	10	-	10	•
Spurn Head	1018·0 (red 8)	0	S'E S (red)	3	c	35	85	5	800	St.	8	-	8	2
Birmingham (Edgbaston)	1019·4	-1	SSW	3	o+	32	92	5	2500	St.	10	-	10	•
Cranwell	1019·7	-1	WSW	2	c+	33	85	5	-	-	0	A.St.	10	•
Gorleston	1019·9	0	W'S	2	c+	31	92	5	-	-	0	A.Cu.	8	0
Valentia (Cahirciveen)	1020·5 (red 8)	0	W'N	2	c	43	85	8	800	St.	8	-	8	3
Roches Point	1021·1	-2	SW	3	c	43	85	8	1500	St.Cu	8	-	8	0
Pembroke (St. Ann's H.)	1018·9	0	SW'W	3	cr₀r₀	43	85	8	800	Cu.Nb	4	A.St.	10	2
Ross-on-Wye	1019·4	-1	SW	2	c	35	75	5	2500	St.	2	A.St.	8	•
Leafield	1020·3	0	SW	3	c+	32	75	6	4000	St.Cu.	10	-	10	•
Winchester (Worthy Dn.)	1021·2	-1	SW	1	c	33	75	7	4000	St.Cu	9	-	9	•
S. Farnborough	1020·8	-1	WSW	2	o+	32	75	7	7200	St.	10	-	10	•
London (Kew Obsy.)	1020·5	-1	SW'S	2	mmo	33	85	4	2500	St.	10	-	10	•
Croydon	1020·5	-1	SW'W	3	mmb	33	75	4	-	-	0	Ci.	2	•
Shoeburyness	1020·8 (red 3)	0	SW (red)	2	c	31	97	6	-	-	0	A.Cu.	9	•
Clacton-on-Sea	1020·2	0	W	2 (red 3)	c	31	85	6	5700	St.Cu.	2	A.St.	9	1
Felixstowe	1020·1	-1	-	0	b	32	85	5	-	-	0	-	0	0
Lympne	1020·9	0	W'S	3	mmc	27	85	4	-	-	0	Ci.St.	8	•
Scilly (St. Mary's)	1021·4	0	NW'N	1	c	42	65	9	4000	St.Cu	8	-	8	0
Falmouth (Pendennis)	1021·2	-1	W'S	1	bc+	40	75	7	4000	Cu.	5	A.Cu.	7	1
Plymouth (Cattewater)	1020·9	-1	W	1	cr₀	39	85	6	4000	Nb.	9	-	9	0
Portland Bill	1020·5	-1	SW	4	c	41	65	8	1500	St.	8	A.St.	10	1
Southampton (Calshot)	1021·2	-1	W'N	2	c	33	75	7	4000	St.Cu.	9	-	9	0
Dungeness	1021·1	0	W	2	bc-	33	85	6	2500	St.Cu.	4	-	4	3
Guernsey (Fort George)	1022·8	-1	WSW	1	bc+	37	75	8	-	-	0	A.Cu.	6	0

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

Station	Height above M.S.L. in feet	Weather (24 Hours ended 9h.) Morning	Afternoon	Night	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall† mm. Day	Night	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cmxb	bcmom	bcof	36	30	26	-	-	5·4	•	•	2 (red)
Croydon	244	cmxb	b,c,bx	bcmcfx	37	28	23	-	-	4·2	•	•	3
Greenwich (Royal Obsy.)	149	cbxfx	bcbxfx	bxcfx	35	29	20	Tr	Tr	0·3	77	92	3
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Pk.)	27	•	•	•	36	28	20	-	-	0·4	53	96	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	1·5	•	•	•
Camden Square	110	xcf	cfb	•	32	32	-	-	-	•	•	97	•
Kensington Palace	80	cx	cmbcm	•	36	31	24	-	-	•	{At 18h 88.}	89	•
Hampstead Observatory	450	•	•	•	35	27	22	Tr	Tr	2·6	•	99	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time	Min.	Time
1·8	11h 27th	<0·3	4h 28th

Kew Observatory			
Max.	Time.	Min.	Time.
0·6	9h 27th	<0·1	4h 28th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 27th 18 h. 22m. to 28th 6 h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12 30	3 24	27
δ Ursae Minoris	12·30	2·15	18

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

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

27th–28th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·44 / 7·43	12·6 / 12·6	16·28 / 16·30
Greenwich	7·47 / 7·46	12·13 / 12·13	16·39 / 16·41
Wick	8·30 / 8·28	12·26 / 12·26	16·21 / 16·23
Valentia	8·30 / 8·28	12·54 / 12·54	17·19 / 17·21

BEAUFORT NOTATION OF WEATHER.

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

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

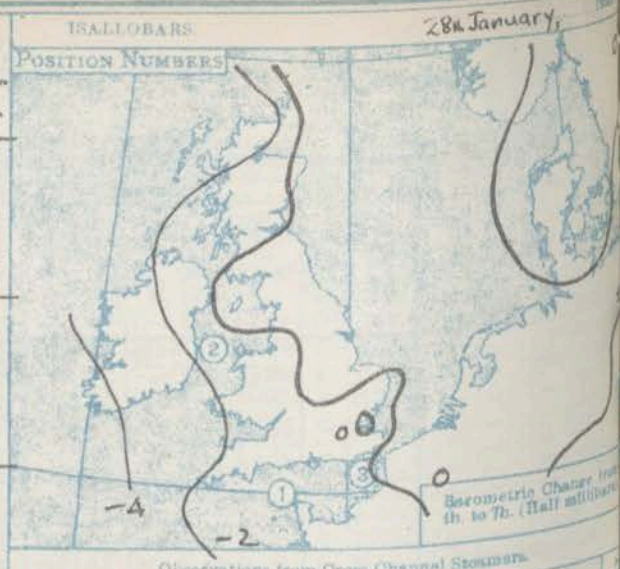
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 „
2. Fog.	550 „
3. Moderate fog.	1,100 „
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2½ „
6. Moderate.	6¼ „
7. Good.	12½ „
8. Very good.	31 „
9. Excellent visibility, beyond 31 m	

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

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 27th	WEATHER. 13h.-18h. 27th	WEATHER. 18h. 27th to 1h. 28th	WEATHER. 1h.-7h. 28th	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN on Grass	RAINFALL.† Day. 7h.-18h. mm.	RAINFALL.† Day. 7h.-18h. began.	RAINFALL.† Night. 18h.-7h. mm.	RAINFALL.† Night. 18h.-7h. began.	SUN 27th Hours.
Lerwick	cbcps.	bccps.	bccps.	cps.bc	39	29	•	1	<8·00	2	21·00	3·4
Stornoway	cps.bc	bcpsh.bc	bccpsbcb	bcpsbc	36	25	•	1	11·00	2	22·00	2·8
Wick	irs.c	cps.c	ps.bc	b-bc	35	25	•	0·6	<8·00	0·4	<21·00	•
Tiree	bcpr	prsbc	bc	bc	40	28	15	1	<8·00	-	-	1·2
Nairn	cprsbc	cbc	bcx	bxc	35	25	•	0·1	<8·00	-	-	0·0
Aberdeen	cs.s.	os.oz.	cbcb	bxz.	35	24	19	0·1	11·00	-	-	0·0
Malin Head	ciru	bcr.	bcprbcpbc	bbcu	42	30	•	2	<8·00	0·2	<21·00	1·0
Renfrew	os.fc	cbccm	cm.m	fFFx	39	17	11	0·2	<8·00	-	-	0·9
Edinburgh(Inchkeith)	omms.s	omdd.	oirs.cbcb	bbc	35	28	25	2	<8·00	Tr.	<21·00	0·0
Leuchars	bcxcprs.m	cis.m.	bcps.bc	bc.bx	35	22	16	Tr.	11·00	Tr.	<21·00	0·1
Eskdalemuir	osms.m	os.cm.	cm.	cm.bcx	33	15	5	2	<8·00	-	-	0·0
Tynemouth	coff	offrs.rs.	offirs.	cos.r.	37	30	26	2	13·30	3	<21·00	•
Blacksod Point ...	c	pc	b	p.o	46	36	•	1	•	0·2	•	•
Donaghadee	cir.	pr.bc	pr.bc	bcx	39	35	•	0·4	11·00	0·4	<21·00	•
Birr Castle	cm.	coirc	cpr.	cm.	40	35	25	1	14·30	1	<21·00	0·0
Holyhead	cm.r.	rrc	cprh.	r.r.rc	41	37	36	5	11·00	4	24·00	0·0
Liverpool (Bidston)...	ps.m.	psr.r	cr.S	osf	38	33	32	3	9·00	11	<21·00	0·0
Chester (Sealand) ...	cmcm.	om.r.rcm	crsm	cd.d.	39	33	31	0·6	15·30	2	22·00	0·2
Harrogate	cscf	coffss	ofsc	cbcb	35	26	18	1	11·00	0·2	<21·00	0·0
Spurn Head	cz	cmcz	czosoz	ozom	40	31	•	-	-	0·4	22·00	1·9
Birmingham(Edgbaston)	bcc	co	osc	com	35	29	24	-	-	1	<21·00	2·8
Cranwell	bfxmbc	bcc	cs.	is.	38	31	29	-	-	0·2	22·00	4·9
Gorleston	cxbcm.	bcm.x	cbcm.x	cm.xs.	34	26	24	-	-	Tr.	6·30	3·7
Valentia(Cahirciveen)	cxbccd.	cd.rq	crcd.	c	44	35	33	2	<8·00	0·3	<21·00	1·7
Roches Point	offcbc	fbcc	c	c	44	35	•	Tr.	-	-	-	•
Pembroke(St.Ann's H.)	cbc	bccr.	bcir	cir	45	39	•	Tr.	17·30	3	<21·00	2·4
Ross-on-Wye	bcmcm	ps.bbcc	cm.bc	cmx	35	31	20	Tr.	13·30	-	-	0·8
Leafield	bbc	cbcc	cs.	cbcc	35	29	28	-	-	0·1	22·00	3·5
Winchester (Worthy Dn.)	bcxb	bccyc	cos.s.mm	omff	37	27	27	-	-	0·1	<21·00	4·7
S. Farnborough ...	cmxbcb	bbco	ocps.bx	bbccxm.	41	28	18	-	-	Tr.	<21·00	4·5
London (Kew Obsy.)...	cmxb	bcmom	bcc	oFx	36	30	26	-	-	-	-	3·4
Croydon	cmxb	b.c.bz	b.czm.	cmbmcf	37	28	23	-	-	-	-	4·2
Shoeburyness... ...	cxc	c	cxm	ofx	34	28	22	0·1	9·00	-	-	0·2
Clacton-on-Sea ...	cosc	cm	cm	cmo	33	28	20	1	9·00	-	-	2·6
Felixstowe	cxosbc	bbccb	bz	bcps.cm	34	29	22	0·1	<8·00	Tr.	1·30	2·0
Lympne	bcms.sf	cbccm.m	cmbcm.x	ofbF	31	25	14	0·1	11·00	Tr.	3·30	0·6
Scilly (St. Mary's) ...	cbc	c	cpbcc	cp.c	46	40	•	-	-	1	<21·00	2·5
Falmouth (Pendennis)	c	cbc	bc	bcc	44	39	•	-	-	-	-	0·8
Plymouth(Cattewater)	cxm.	cm.r.	cr.bm.	bcom.	40	33	30	Tr.	13·30	0·1	22·00	0·0
Portland Bill	bc	c	coid.c	cbcb	41	39	•	-	-	0·4	<21·00	•
Southampton(Calshot)	bbcbx	bcyc	cis.r.sbccm	cmofxFc	38	31	20	-	-	0·4	<21·00	5·2
Dungeness	cm.ps.c	cbc	bc	bcf	33	27	•	Tr.	<8·00	-	-	•
Guernsey	b	bbcu	bccirc	corrirc	47	36	•	-	-	6	22·00	8·8



Observations from Cross Channel Steamers.

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

GENERAL INFERENCE.

A ridge of high pressure covers the British Isles and depressions are centred to the west of Ireland to the north of Scotland and over Denmark. Cold wintry weather will continue over Great Britain but milder conditions will spread to Ireland.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Monday, 28th January, 1929.	Farther Outlook.
1. S.E. England 2. E. England	Variable or southwesterly winds, light to moderate; cloudy, occasional sleet or drizzle; some mist or fog; temperature rising slowly.	Contuing cold in the North; probably somewhat milder in the South and West.
3. E. Midlands 4. W. Midlands	Variable or westerly winds, light to moderate; cloudy, wintry showers; some mist; temperature rising slowly but ground frost at night.	
5. S.W. England 6. South Wales	Southwesterly to southerly winds, light to fresh; cloudy, some rain or drizzle; local coastal fog; temperature rising.	
7. North Wales 8. N.W. England	Light variable winds; bright at first, cloudy later with occasional snow, sleet, perhaps rain; local coastal fog; temperature rising slowly ut ground frost at night.	
9. N. Midlands 10. N.E. England	Variable winds, mainly light or moderate; cloudy, wintry showers; local mist or fog; cold today, night frost, probably milder tomorrow.	
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotland B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Variable winds, mainly light to moderate; bright at first, then cloudy with snow at times; local mist or fog; very cold with sharp frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Mainly southerly to southeasterly winds, light to fresh; cloudy, occasional rain or drizzle; some mist; temperature rising.	

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

‡ For code see page 1

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

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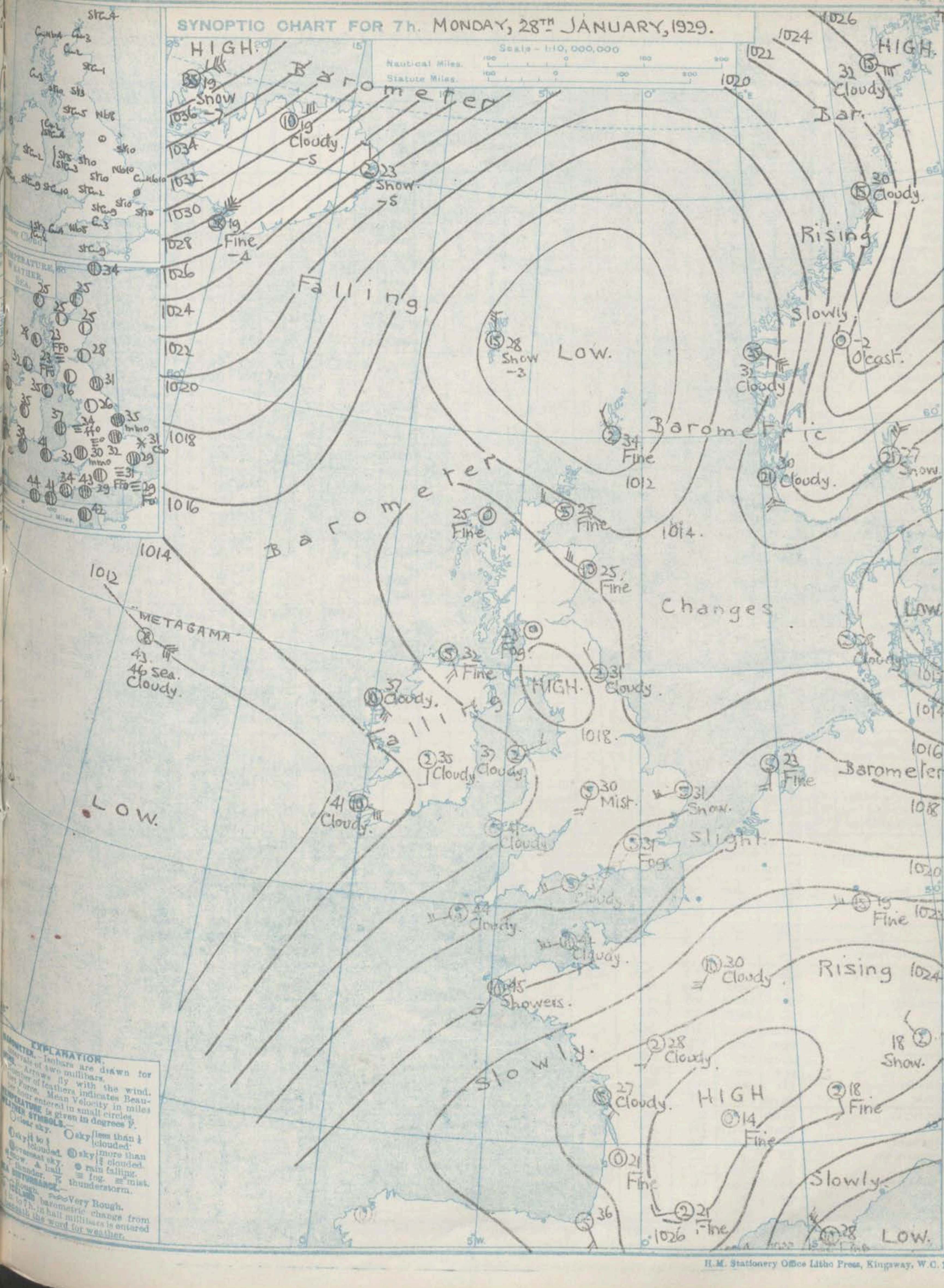

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Monday, 28th January.....1929. No...28...

Stations	Height above M.S.L. in feet	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.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	7h. G.M.T. 28th: Barom. at M.S.L. mb.	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Cloud Upper Form	Cloud Total Amt. 0-10	[illegible] 0-9
Lerwick	54	1011·0	0	WNW	1	cs.	32	92	8	1500	CuNb.	5	A.St.	8	1011·4	+1	NW	1	bo	34	85	8	1500	St.Cu.	4	Ci.	6	*
Stornoway	30	1017·5	0	NE	2	bc/pa.	*	*	8	*	*	*	*	3	1015·0	-3	-	0	bc	25	92	7	4000	CuNb.	4	-	4	1
Wick	81	1015·5	0	WNW	2	bc	28	85	8	1500	CuNb.	4	Ci.St.	6	1014·9	-2	WNW	2	bc	25	92	8	2500	Cu.	3	-	3	0
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·1	-1	N	1	bc	28	85	9	2500	Cu.	3	-	3	1
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	1014·8	*	-	0	b-	25	85	8	2500	Cu.	2	-	2	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·9		WNW	3	b	25	85	6	4000	St.Cu.	1	-	1	0
Malin Head	51	1018·2	+1	NNE	3	b	38	85	9	4000	Cu.	1	-	1	1016·7	-1	SSE	2	bc	32	97	9	4000	Cu.	1	Ci.Cu	3	1
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·7	0	-	0	Ffo	23	97	1	150	St.	10	-	10	*
Edinburgh (Inchkeith)	100	1016·1	+1	W	2	b	32	75	8	-	-	0	A.Cu.	2	1016·2	0	W	2	bc	28	92	5	800	St.	3	-	3	0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·3	0	SW	2	b	24	85	8	-	-	0	A.Cu.	1	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·7	0	-	0	bc	16	85	7	4000	St.Cu	5	-	5	*
Tynemouth	67	1015·7	0	WNW	2	bc/rs	31	92	7	1500	Cu.	3	-	3	1017·0	+1	NW	1	c/s	31	97	6	1500	Nb.	8	-	8	2
Blacksod Point ...	18	1017·7	0	N	1	b	38	85	8	*	Cu.	1	-	1	1014·5	-3	SE	3	c	37	92	8	*	-	0	A.St.	10	5
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·9	+1	NE	1	bc+	35	85	8	4000	St.Cu.	6	-	6	1
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1014·8	*	S	1	c	35	97	6	2500	St.Cu.	2	A.St.	10	*
Holyhead	26	1016·4	-1	-	0	cR	39	97	7	800	St.Cu	10	-	10	1015·7	-1	E'N	1	c	37	97	7	2500	St.	8	-	8	1
Liverpool (Bidston) ...	189	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·2	0	S	2	ffo	34	97	3	800	St.	10	-	10	*
Chester (Sealand) ...	16	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·4	-1	-	0	od.	33	97	4	1500	St.	10	-	10	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·2	0	SW	1	b	26	92	7	-	-	0	Ci.St.	1	*
Spurn Head	29	1016·1	-1	SSW	3	o	33	97	5	2500	St.	10	-	10	1016·0	0	W'N	3	mno	35	97	4	450	St.	10	-	10	3
Birmingham (Edgbaston)	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·4	0	SSW	2	mno	30	97	4	800	St.	10	-	10	*
Cranwell	236	1017·4	-2	WSW	3	c	33	97	6	2500	St.Cu	10	-	10	1017·5	0	W'S	1	o	32	97	5	1500	Nb.	10	-	10	*
Gorleston	14	1018·8	-1	WSW	2	c	28	92	5	-	-	0	A.St.	9	1017·5	0	WSW	2	cs.	31	97	5	1500	CuNb.	10	-	10	0
Valentia (Cahirciveen) P	30	1018·0	-2	NW	1	c+	40	92	8	*	St.	10	-	10	1012·2	-5	ESE	3	c	41	85	8	4000	St.Cu.	1	A.St.	10	2
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·5	-3	W	2	c	38	97	8	2500	St.Cu.	9	-	9	0
Pembroke (St. Ann's H.)	150	1017·1	-2	WSW	3	cr	41	92	7	1500	St.Cu	10	-	10	1015·1	-2	-	0	c	41	97	8	800	St.Cu	10	-	10	1
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·3	-1	SE	1	c	32	97	5	4000	St.Cu.	2	A.St.	9	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	1017·8	-1	SW'S	3	o	31	92	7	800	St.	10	-	10	*
Winchester (Worthy Dn.)	372	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·1	-1	SSE	1	ffo	28	97	2	450	St.	10	-	10	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·7	-1	S	1	c	29	97	5	2500	St.Cu	9	-	9	*
London (Kew Obsy.) ...	18	*	*	*	*	*	33	*	*	*	*	*	*	*	1018·8	0	SW	2	FFo	31	97	1	150	St.	10	-	10	*
Croydon	244	1019·7	0	SW	2	c	32	92	5	4000	St.	7	A.St.	10	1019·3	0	S'W	3	fbc+	28	97	3	220	St.	2	A.St.	5	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·1	-1	WN	1	ffo	31	97	3	450	St.	10	-	10	1
Clacton-on-Sea ...	54	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·7	-1	W	2	c	29	85	6	-	-	0	A.St.	10	0
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·5	0	SW	1	mmc	32	97	4	1500	St.Cu.	10	-	10	0
Lympne	350	1019·9	-1	SWW	3	b	26	92	5	-	-	0	A.Cu.	1	1019·3	0	NW	2	Fb+	26	97	1	-	-	0	-	0	*
Scilly (St. Mary's) ...	163	1019·3	-1	NW	4	c	44	85	7	4000	St.Cu	10	-	10	1016·9	-2	WSW	2	c	44	85	8	4000	St.	9	-	9	1
Falmouth (Pendennis)	200	1019·6	-1	WSW	2	bc+	40	97	7	4000	Cu.	4	A.Cu.		1016·3	-2	-	0	c	41	92	8	4000	Cu.	4	Ci.St.	9	0
Plymouth (Cattewater)	62	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·0	-1	ENE	3	cⓓ	34	97	6	4000	Nb.	5	Ci.St.	9	0
Portland Bill	32	1018·9	-1	W	3	c	42	75	8	2500	St.Cu	7	A.Cu.	9	1017·8	-1	WSW	2	cⓓ	43	85	8	2500	Cu.	3	Ci.St.	8	1
Southampton (Calshot)	10	1019·5	-2	NNE	2	c+	34	92	6	4000	St.Cu	8	-	8	1019·1	-1	ENE	2	FFo	32	97	1	150	St.	10	-	10	0
Dungeness	20	1019·8	-1	W	2	bc	34	92	7	1500	St.	5	-	5	1020·4	+1	NW	2	Fo	29	97	1	150	St.	10	-	10	4
Guernsey (Fort George) P	295	1021·0	-3	SW	3	orr	40	92	5	1500	Nb.	10	-	10	1019·8	-1	WSW	3	c-	42	92	7	2500	St.Cu.	9	-	9	3

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

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 26th to 9h. 27th	Temperature. 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	s	s	28	34	Trace	2	0.0
Douglas (I. o. M.) ...	xcrs	cph	30	39	0·5	2	0·1
Llandudno ...	c	oro	30	40	-	1	0·0
Colwyn Bay ...	co	ocro	28	41	-	2	0·0
Rhyl...	c	cro	27	40	-	1	0·0
Wallasey	xfc	corr	29	38	-	2	0·0
Southport	oco	osro	*26	36	-	3	0·0
Blackpool	phsom	sro	26	36	0·4	8	0·0
Ilkley	xos	os	23	36	-	1	0·0
Cleethorpes... ...	cb	bof	29	41	-	-	4·2
Skegness	pcipsc	c	28	38	1	-	3·5
Aberystwyth ...	oxbc	bcor	26	40	0·5	1	2·3
Bath	bmc	cbc	18	36	-	-	1·8
Cheltenham ...	xbem	bccs	22	35	-	Trace	1·9
Leamington Spa ...	o	o	21	34	-	-	0·0
Lowestoft	b	bccs	27	35	Trace	Trace	3·8
Harwich & Dovercourt	ocs	bcsm	26	34	0·3	Trace	1·9
Maldon	so	bc	27	35	0·3	-	2·5
Southend	offc	cfo	26	32	0·3	Trace	0·3
Bude	xcbc	bcc	24	41	-	-	1·2
Penzance	cbc	cb	30	45	-	-	1·5
Paignton	bcm	corpom	23	38	-	Trace	0·7
Torquay	bcm	bccopo	27	39	-	Trace	0·6
Jersey	bc	bc	30	42	-	-	8·0
Weymouth	fb	cbc	22	42	-	-	2·8
Bournemouth ...	b	oco	22	39	-	-	4·6
Ventnor ...	xb	bbc	26	40	-	-	6·5
Portsmouth (S'thsea)	b	b	25	39	-	-	5·5
Bognor	xbcb	b	25	37	-	-	5·8
Littlehampton ...	cbc	bc	24	39	-	-	5·4
Worthing	bc	bbc	25	39	-	-	5·5
Brighton	ocbcb	bc	26	38	-	-	5·2
Eastbourne‖... ...	bc	cbcb	27	38	-	-	4·7
Hastings‖	xbcc	cbcbm	27	36	Trace	-	3·7
Folkestone	cossm	oxom	26	34	1	0·3	1·3
Dover	mbccs	mcsf	27	35	1	0·2	1·6
Tunbridge Wells ...	ompso	cbc	21	35	Trace	Trace	1·3
Ramsgate	cos	so	30	34	1	0·6	0·9
Margate	cs	cm	30	35	0·2	0·4	0·9
Deal	bbcs.	o	27	33	1	0·3	1·2

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

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B24540 Tuesday 29th January 1929.

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

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity %	Visibility.§ 0-9	Cloud Low Height Feet	Low Form	Low Amt. 0-10	Upper Form	Total Amt. 0-10	State of ground.
Lerwick	1014.9	+2	NW	1	bc	36	75	8	1500	StCu	3	ACu	6	•
Stornoway	1014.6	-1	-	0	bc	32	85	8	4000	CuNb	3	-	3	•
Wick	1014.9	0	W	2	bc	36	85	8	2500	Cu	2	CiSt	4	•
Tiree	1014.9	-1	S'E	2	CSo+	34	97	7	1500	Nb	9	-	9	3
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1016.3	0	WSW	2	b	33	75	7	-	-	0	CiSt	1	3
Malin Head	1015.1	-2	SE	2	c⊕	36	85	8	4000	Cu	1	CiSt	9	•
Renfrew	1017.1	-1	-	0	fo-	26	97	2	220	St	10	-	10	6
Edinburgh (Inchkeith)	1016.3	0	WSW	1	ffc	29	97	3	450	St	4	Ci	9	•
Leuchars	1016.5	0	WSW	2	bc	34	75	7	-	-	0	CiSt	7	4
Eskdalemuir	1017.5	0	-	0	c⊕	23	85	7	-	-	0	CiSt	8	7
Tynemouth	1017.2	0	NW	1	c	34	97	5	1500	Nb	8	-	8	•
Blacksod Point	1010.4	-4	E	3	c	38	75	9	-	-	0	ASt	10	•
Donaghadee	1016.7	-2	SSE	3	c+	38	75	7	4000	Cu	5	ASt	8	•
Birr Castle	1010.8	•	SE	3	odo	40	85	6	800	St	10	-	10	•
Holyhead	1015.0	-1	SE'E	3	c	41	97	6	1500	St	9	ASt	10	2
Liverpool (Bidston)	1016.0	-1	SE'S	3	mmc	36	97	4	4000	Nb	10	-	10	•
Chester (Sealand)	1016.2	-1	SE	2	fo-	37	92	4	450	St	10	-	10	1
Harrogate	1017.4	0	SW	1	bc	33	85	7	-	-	0	CiSt	7	•
Spurn Head	1017.4	0	WSW	1	c	35	92	5	2500	~~Cu~~ St	5	ASt	8	•
Birmingham (Edgbaston)	1017.7	0	S	1	ffc	34	97	3	2500	StCu	9	-	9	7
Cranwell	1018.3	+1	S	1	c	35	92	5	1500	St	6	ASt	10	1
Gorleston	1018.5	+2	W	2	mmc	35	97	4	2500	St	10	-	10	•
Valentia (Cahirciveen)	1004.5	-11	SE'E	5	crr	43	85	7	1500	St	6	ASt	10	2
Roches Point	1010.9	-5	SE	4	crr	44	92	7	1500	Nb	9	-	9	•
Pembroke (St. Ann's H.)	1014.0	-2	S	2	c/pro	45	85	7	2500	StCu	10	-	10	•
Ross-on-Wye	1017.2	0	-	0	mmc	38	85	4	2500	StCu	10	-	10	2
Leafield	1018.1	+1	S'E	2	c	34	97	6	4000	St	7	ASt	9	3
Winchester (Worthy Dn)	1018.4	-1	SSE	1	c⊕	40	97	5	4000	StCu	3	ASt	10	3
S. Farnborough	1018.7	0	SSE	2	c⊕	39	85	6	2500	StCu	6	CiSt	10	0
London (Kew Obsy.)	1018.9	0	-	0	c⊕	38	85	4	5700	StCu	3	CiSt	10	3
Croydon	1018.9	0	S	4	c/pc	40	85	6	4000	StCu	4	CiSt	10	1
Shoeburyness	1019.7	+1	SW	1	c/f	36	92	5	4000	StCu	8	-	8	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1020.0	+1	SSW	1	ffo	33	97	3	<150	St	10	-	10	7
Lympne	1019.7	0	SSE	1	c⊕	38	85	7	5700	StCu	3	CiSt	8	1
Scilly (St. Mary's)	1014.1	-4	SSW	6	crоro	45	92	7	4000	Nb	10	-	10	•
Falmouth (Pendennis)	1015.4	-2	SSW	3	orr	44	97	7	2500	Nb	10	ASF	10	•
Plymouth (Cattewater)	1016.5	-2	S	5	c/fro	45	85	7	2500	Nb	8	~~[illegible]~~	10	1
Portland Bill	1017.7	0	SSW	4	c⊕	45	85	8	1500	St	4	ASt	10	•
Southampton (Calshot)	1018.8	0	E'N	2	fc-	39	92	4	2500	StCu	9	-	9	2
Dungeness	1020.1	0	-	0	FFo	34	97	1	<225	St	10	-	10	•
Guernsey (Fort George)	1019.2	-1	SW	5	c	45	75	7	1500	St	2	ASt	9	•

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	1014.1	0	-	0	c	35	65	7	1500	StCu	5	ASt	10	•
Stornoway	1013.4	-2	-	0	b	23	97	7	4000	Cu	2	-	2	0
Wick	1015.5	0	W	2	bc	21	97	8	2500	StCu	4	-	4	1
Tiree	1012.9	-2	S'E	4	c+	35	85	9	-	-	0	ASt	10	1
Nairn	1014.8	•	-	0	bc	24	85	8	1500	St	5	-	5	•
Aberdeen	1016.4	0	NW	2	ffbc	25	85	3	-	-	0	CiSt	6	0
Malin Head	1011.1	-2	ESE	4	c	37	85	7	4000	Cu	1	ASt	10	1
Renfrew	1015.0	-1	NE	2	fo-	27	97	3	450	St	10	-	10	•
Edinburgh (Inchkeith)	1015.5	-1	WSW	2	e/f	31	85	6	800	St	9	-	9	0
Leuchars	1016.3	0	-	0	bc-	28	85	6	-	-	0	ASt	3	•
Eskdalemuir	1016.0	+2	NNE	2	c⊕	27	85	7	2500	St	7	ASt	10	•
Tynemouth	1017.0	0	S	1	fbc-	36	85	3	1500	CuNb	7	-	7	1
Blacksod Point	1004.0	-6	E	4	or+	38	85	7	•	Nb	10	-	10	7
Donaghadee	1013.5	-3	SSE	3	cro	39	85	6	2500	Nb	8	-	8	3
Birr Castle	1004.6	•	ESE	3	orr	40	92	5	1500	Nb	10	-	10	•
Holyhead	1011.8	-3	SE	4	oro	41	97	6	800	Nb	10	-	10	2
Liverpool (Bidston)	1014.2	-2	SE	4	fo-	35	92	4	800	St	10	-	10	•
Chester (Sealand)	1014.6	-2	SE'S	3	odo	35	97	4	450	St	10	-	10	•
Harrogate	1016.9	0	SE	3	c/so	32	92	5	2500	St	10	-	10	•
Spurn Head	1017.5	0	SSE	3	mmc	34	97	4	2500	St	8	-	8	3
Birmingham (Edgbaston)	1016.5	-1	SSE	2	oro	35	97	4	1500	Nb	10	-	10	•
Cranwell	1018.5	0	S'E	3	fo+	31	97	2	2500	St	10	-	10	•
Gorleston	1019.9	+1	SW'S	3	c	34	92	5	2500	StCu	10	-	10	0
Valentia (Cahirciveen)	998.2	-4	S'W	4	od-	51	97	6	450	St	10	-	10	4
Roches Point	1002.0	-7	SE	6	orr	45	97	6	800	Nb	10	-	10	6
Pembroke (St. Ann's H.)	1009.8	-5	S	4	CRR	43	97	6	1500	StCu	10	-	10	3
Ross-on-Wye	1015.3	-2	SE	3	cro+	40	92	6	1500	Nb	10	-	10	•
Leafield	1017.2	0	SE'S	3	oro	36	92	5	1500	Nb	10	-	10	•
Winchester (Worthy Dn)	1018.0	0	SE'S	2	c/ro	39	92	6	1500	StCu	10	-	10	•
S. Farnborough	1018.5	0	SSE	2	mmc	38	92	4	4000	StCu	10	-	10	•
London (Kew Obsy.)	1018.8	0	S'E	2	o	38	92	5	2500	St	10	-	10	•
Croydon	1018.8	0	S	4	c-	39	92	5	2500	St	5	ASt	9	•
Shoeburyness	1019.7	0	S	2	c	37	97	6	4000	StCu	8	-	8	•
Clacton-on-Sea	1020.2	0	WSW	4	c	37	92	6	4000	Nb	8	-	8	2
Felixstowe	1020.1	+1	SSE	3	c	37	97	6	4000	StCu	9	-	9	3
Lympne	1020.1	0	S'E	4	oro	38	92	6	800	Nb	10	-	10	•
Scilly (St. Mary's)	1009.5	-4	S	7	orr	45	97	5	2500	Nb	10	-	10	7
Falmouth (Pendennis)	1011.9	-3	SSW	7	OR-	42	97	6	2500	Nb	10	-	10	6
Plymouth (Cattewater)	1014.4	-2	S	7	crr	41	92	7	1500	Nb	8	ASt	10	4
Portland Bill	1016.1	-2	S	5	c	45	75	8	1500	St	3	ASt	10	4
Southampton (Calshot)	1018.2	0	SSW	3	c/ro	42	85	7	2500	Nb	2	ASt	10	0
Dungeness	1020.1	0	SSW	4	oro	41	92	7	1500	Nb	10	-	10	3
Guernsey (Fort George)	1019.0	-1	S	6	cro	41	85	7	800	Nb	7	ASt	10	6

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

Station	Heights above M.S.L. in feet.	Weather (24 Hours ended 9h.) Morning.	Afternoon.	Night.	Temperature Max. Day. °F.	Min. Night °F.	Min. on Grass. °F.	Rainfall mm. Day.	Night.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h
Kew	18	ofxe	emo	prorro	41	34	32	-	2	0.0	•	•	5
Croydon	244	bceffn	emobro	caroro	41	34	32	Tr.	3	0.0	•	•	5
Greenwich (Royal Obsy.)	149	cf.o	c⊕e	cpciro	42	34	31	-	2	0.0	81	92	5
City (Bunhill Row)	30	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Pk.)	97	•	•	•	42	35	32	[illegible]		0.0	82	96	•
Regent's Pk. (Botanic Gdns).	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	xof	cfc	•	40	35	•	-	3	•	•	93	•
Kensington Palace	80	co	om	•	41	35	32	-	3	•	(At 18h) 91	91	•
Hampstead Observatory	450	•	•	•	39	31	29	1	2	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.
2.3	11h 28th	<0.3	5h 29th

Kew Observatory			
Max.	Time.	Min.	Time.
0.6	11h 28th	0.1	24h 28th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 28th 18h 00m. to 29th 6h 30m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12-30	Nil	-
δ Ursae Minoris	12-30	Nil	-

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

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

29th, 30th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.43 / 7.41	12.6 / 12.7	16.30 / 16.32
Greenwich	7.46 / 7.44	12.13 / 12.13	16.41 / 16.43
Wick	8.28 / 8.26	12.26 / 12.26	16.23 / 16.26
Valentia	8.28 / 8.27	12.54 / 12.54	17.21 / 17.23

BEAUFORT NOTATION OF WEATHER.

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

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

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

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

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

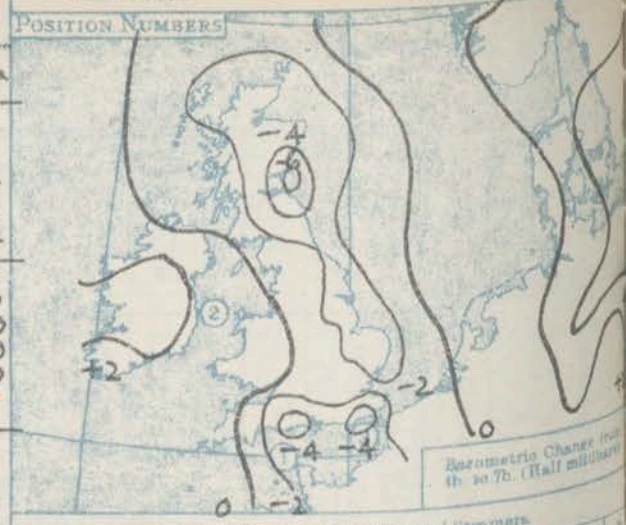
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	Weather. 7h.-18h. 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 6 hours ending 29th Hours.
Lerwick	bc	bcc	cossp₀bc	bc	38	29	•	-	-	3	<21·00	4·3
Stornoway	b-bc	b-bc	c	co	35	22	•	-	-	-	-	3·7
Wick	b-bc	b-bc	b-bc	c r o r	36	20	•	-	-	0·6	5·30	•
Tiree	bccs₀	bcc	co	c p r₀ o	37	34	30	Tr	12.30	0·3	3·30	0·5
Nairn	bbc	bcx	bcx	bc	31	22	•	-	-	-	-	5·2
Aberdeen	bz₀b	bbczzff	bcfcf	orr	35	22	19	-	-	2	2·30	5·4
Malin Head	bcc	c	c r r m₀ m₀	c r r m₀ m₀	38	36	•	-	-	8	<21·00	0·0
Renfrew	FFx	Fffx	o f x s₀ s₀	o s r s₀	27	27	24	-	-	2	24·00	0·0
Edinburgh (Inchkeith)	bcmmciF	cffomm	coss	o i s₀ i₀ r₀ f₀	32	31	27	-	-	1	24·00	0·0
Leuchars	bxbcx	bccmbcm	bcm₀cs₀	c r r o r₀ c₀ r₀	35	25	19	-	-	3	1·30	3·9
Eskdalemuir	bcxc	c	c x o s₀ r₀	o s₀ s₀ m₀	27	25	23	-	-	5	<21·00	~~·0~~ 1·6
Tynemouth	c	cif	bcoifir₀	o r₀ r₀	38	35	31	-	-	3	22·00	•
Blacksod Point ...	o	p₀R	r₀	r₀c	38	37	•	2	•	4	•	•
Donaghadee	bcc	ir₀m₀	c r r m₀	c r r i r	39	39	•	0·2	16.30	14	<21·00	•
Birr Castle	coid₀	oidrr	orr	c m₀	40	38	3[illegible]	6	12.30	4	<21·00	0·0
Holyhead	cm₀	cm₀r₀r₀	r r R	d d d₀ d₀	41	39	38	1	15.30	10	<21·00	0·0
Liverpool (Bidston) ...	forsc	ombme	r₀ r R	r o r r	36	35	33	0·3	<8.00	6	<21·00	0·0
Chester (Sealand) ...	od₀d₀ffc	omd₀	o r o r	r₀c	37	35	34	0·3	<8.00	5	<21·00	0·0
Harrogate	bbc	bccois₀	o f f	o m m s s r r	34	31	31	Tr	17.30	8	<21·00	0·0
Spurn Head	cmcz	mmo	o f f o f f r r	o r o s s	36	32	•	-	-	4	22·00	0·6
Birmingham (Fdgbaston)	ofc	fcor₀	o r₀ r r	o r r s	36	33	31	0·1	17.30	8	<21·00	0·6
Cranwell	o i s₀ m₀	c m₀ f	o F r r	o r s, s	36	31	31	Tr	11.00	7	<21·00	0·6
Gorleston	o s₀ m₀ m	f o m₀ m	c m₀ u o r r	o r r s	35	33	31	Tr	<8.00	3	<21·00	0·0
Valentia (Cahirciveen)	c r r	c r r c d	o d₀ d₀	o i d₀	51	50	48	2.0	<8.00	0·4	<21·00	0·0
Roches Point	c r r	o r r	o r c	c o d o d₀	46	45	•	15	<8.00	2	<21·00	•
Pembroke (St. Ann's H.)	c r₀	c R m	o R R	o r₀ F	45	42	•	4	9.00	11	<21·00	0·0
Ross-on-Wye	c f o m c m	c o d₀ r₀	r d r r	o c o	41	36	34	0·2	16.30	5	<21·00	0·0
Leafield	c i f c	c o	o r r o	o s, r	36	32	32	Tr	17.30	3	<21·00	0·0
Winchester (Worthy Dn.)	o f f c m	c m₀ r₀	c m₀ f₀ r₀ s	o s o r c r₀	42	32	32	0·2	16.30	5	<21·00	0·0
S. Farnborough ...	c x m₀ f	c r₀ m₀	o m r₀ o	o r r₀ r₀ m	39	34	32	Tr	11.00	2	<21·00	0·0
London (Kew Obsy.) ...	o f x c m	c m₀	b r a m₀ r₀	c i r r₀ m₀	41	34	32	-	-	2	<21·00	0·0
Croydon	b c f f b r₀	c m₀ p r₀	c o r₀ r₀ m₀	o r₀ r₀ d d m₀	41	34	32	Tr	12.30	3	<21·00	0·0
Shoeburyness	o f c m₀	c	c o r r	o r r	39	32	32	-	-	2	<21·00	0·2
Clacton-on-Sea ...	o g m f	o g f c	o g d	o g d r	37	33	33	-	-	5	<21·00	0·0
Felixstowe	c m o f	c m₀	c m₀ r₀	o r s m₀	37	33	32	-	-	3	<21·00	0·0
Lympne	b f c f c	c r₀ o r₀ m	c r₀ o c m₀	o s₀ r s m₀	39	32	30	1	15.30	1	<21·00	2·2
Scilly (St. Mary's) ...	c l r r	c o r r m	o r r i f	o r r f	45	45	•	10	<8.00	7	<21·00	0·0
Falmouth (Pendennis)	o r r	o R m₀ q	o R m₀ q	o r r g m₀	46	42	•	7	<8.00	13	<21·00	0·0
Plymouth (Cattewater)	c x f c r₀	c r r q	c o r r R m₀ m₀ r r₀		47	40	38	3	9.00	32	<21·00	0·0
Portland Bill	c	o l r₀ c	o r₀ o r s o m	o r r o r₀ c	46	37	•	0·6	13.30	13	<21·00	•
Southampton (Calshot)	o f c m d₀ f	c m c r₀	c i r₀ o c₀ c₀	o s₀ s₀ i₀ c	42	34	31	0·2	11.00	3	<21·00	0·0
Dungeness	o f F	o f c r₀	r₀ o c c	c o p r₀	41	24	•	0·4	14.30	0·6	<21·00	•
Guernsey	c q₀	c l r₀ q	o r₀	o i r₀ q m r	46	35	•	Tr	17.30	6	<21·00	0·7

ISALLOBARS — 28th January.

POSITION NUMBERS



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
3	29th 2h	Arundel	SSW	5	c	39	44

GENERAL INFERENCE.

Secondaries, associated with a deep depression on the N. Atlantic, will move northwards over the British Isles and weather be milder and less settled than of late with rain in most places and southerly to southwesterly winds approaching a gale at times locally.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Tuesday, 29th January, 1929.
1. S.E. England ▼	Moderate to strong southerly to southwesterly winds, stronger locally at first; cloudy, some rain or drizzle; local mist; temperature rising slowly.
2. E. England ▼	
3. E. Midlands	Moderate to strong southerly winds, stronger locally at times; cloudy to dull; some rain or sleet; snow on high ground at first; temperature rising slowly.
4. W. Midlands	
5. S.W. England	Southerly to southwesterly winds, moderate to strong; cloudy, some rain or drizzle; moderate temperature to rather mild.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	As 2 - 4.
10. N.E. England ▼	
11. S.E. Scotland ▼	Moderate to strong southeasterly to southerly winds, stronger at times locally; cloudy, some rain or sleet; snow at first on high ground; temperature rising slowly.
12. S.W. Scotland & Isle of Man	
13 A. W. Scotland	
13 B. N.W. Scotland ▼	
14. Mid-Scotland	
15. N.E. Scotland ▼	
16. Orkneys and Shetlands ▼	
17. N.W. Ireland	Mainly southerly to southwesterly winds, light to moderate, becoming strong at times later; cloudy, occasional local rain or drizzle; moderate temperature to rather mild.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

Further Outlook.

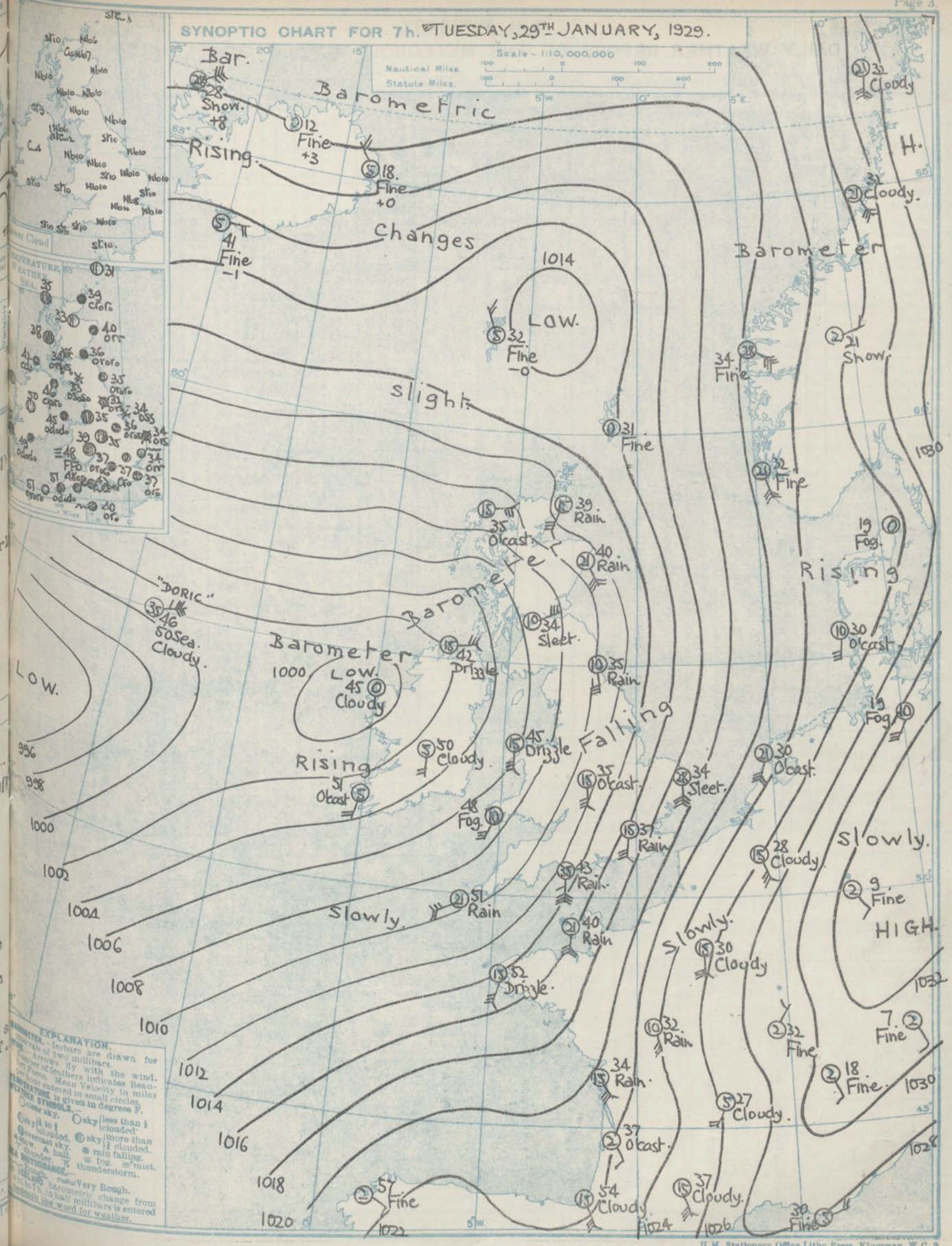
Unsettled generally; mild in the West, moderate temperature in the East.

▼ South Cone flying. Hoisted in district 1 at 14h. G.M.T. yesterday, and at 8h. 30m. G.M.T. this morning in remaining districts.

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

‡ For code see page 1

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Tuesday..29th January.....1929. No. 29.....

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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun 0-1
Lerwick	54	1015·2	0	–	0	bc	30	85	8	1500	StCu	3	–	3	•
Stornoway	30	1012·7	-1	NE	1	c+	•	•	7	•	•	•	•	8	3
Wick	81	1014·8	-1	SSW	4	bc	35	92	8	2500	StCu	2	c.St	5	3
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	4
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	81	1004·4	-6	ESE	6	cr	40	97	6	4000	Nb	6	a.St	10	4
Renfrew	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	100	1012·8	-3	E	2	oss	34	85	5	800	Nb	10	–	10	•
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1014·9	-2	S	2	or	37	92	7	1500	Nb	10	–	10	2
Blacksod Point ...	18	996·5	-3	SE	3	orr	42	92	6	•	Nb	10	–	10	2
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1005·6	-8	S'E	6	ed	41	92	6	800	St	5	a.St	10	4
Liverpool (Bidston) ...	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	476	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1017·0	0	SSE	4	orr	36	97	5	2500	Nb	10	–	10	4
Birmingham (Edgbaston)	525	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	230	1017·4	-1	SSE	4	orr	35	97	4	450	Nb	10	–	10	•
Gorleston	14	1020·1	+1	SSW	3	or	37	97	6	800	Nb	10	–	10	4
Valentia (Cahirciveen) P	30	1001·3	+2	S	3	o	50	97	7	•	St	10	–	10	6
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	180	1004·7	-2	S	6	orr	46	97	5	800	St	10	–	10	6
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Leafield	812	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1018·7	-1	S'E	5	or	36	92	5	1500	Nb	10	–	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	2
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	250	1020·5	-1	SSE	5	c	37	95	6	1500	St	6	a.St	10	5
Scilly (St. Mary's) ...	163	1008·5	+1	SW	5	orr	51	97	5	2500	Nb	10	–	10	2
Falmouth (Pendennis)	300	1008·2	-1	SW'S	5	orr	48	97	6	2500	Nb	10	–	10	2
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	7
Portland Bill	52	1014·0	-2	SSE	8	orr	40	92	5	1500	Nb	10	–	10	3
Southampton (Calshot)	10	1017·8	-3	S	5	os	34	97	6	1500	Nb	10	–	10	5
Dungeness	20	1020·6	+3	S	5	c	40	75	7	4000	StCu	10	–	10	8
Guernsey (Fort George) P	205	1014·8	-3	SSE	5	c+	36	92	7	2500	StCu	10	–	10	

Stations.	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	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun 0-1
Lerwick	1015·7	0	–	0	bc	31	85	8	1500	StCu	3	–	3	•
Stornoway	1009·8	-3	E	4	o	35	92	7	2500	St	10	–	10	3
Wick	1012·2	-3	SSW	4	crr	39	92	8	1500	Nb	6	a.St	10	4
Tiree	1008·9	-1	NNE	4	o	38	85	7	1500	CuNb	10	–	7	•
Nairn	1009·7	•	E	1	bc+	33	85	7	2500	CuNb	7	–	10	4
Aberdeen	1011·6	-2	SE'S	5	orr	40	92	6	1500	Nb	10	–	9	4
Malin Head	1002·1	-1	E	4	ed	42	97	7	800	St	9	–	10	•
Renfrew	1007·3	-2	ENE	3	ors	34	97	5	800	Nb	10	–	10	2
Edinburgh (Inchkeith)	1008·0	-5	SE	4	or	36	85	7	1500	Nb	10	–	10	•
Leuchars	1009·3	-7	ESE	3	cr	38	85	7	2500	Nb	7	a.St	10	•
Eskdalemuir	1008·0	-3	SE'S	4	os	33	97	6	800	Nb	10	–	10	2
Tynemouth	1010·2	-2	SSE	3	or	35	97	6	1500	Nb	10	–	10	2
Blacksod Point ...	999·6	+2	–	0	c	45	92	7	•	–	0	a.St	8	3
Donaghadee	1003·7	+1	SW	2	cpr	46	97	6	2500	Nb	8	–	9	•
Birr Castle	1002·5	•	S	2	c–	50	92	6	1500	Cu	4	a.St	10	4
Holyhead	1005·8	+1	S	4	ed	45	97	4	450	Nb	10	–	10	•
Liverpool (Bidston) ...	1007·5	0	S'E	5	o	38	92	7	4000	Nb	10	–	10	•
Chester (Sealand) ...	1007·8	-1	SSE	5	c	38	92	7	450	St	10	–	10	•
Harrogate	1011·4	-1	SSE	3	orr	32	97	4	450	St	10	–	10	4
Spurn Head	1012·4	-2	S'E	6	oss	39	97	6	2500	Nb	10	–	10	•
Birmingham (Edgbaston)	1011·6	0	S	4	o	35	97	6	1500	St	10	–	10	•
Cranwell	1014·2	-3	SSE	5	ors	32	97	6	450	Nb	10	–	10	4
Gorleston	1018·8	-2	S	6	orsrs	34	97	5	800	Nb	10	–	10	6
Valentia (Cahirciveen) P	1003·1	+1	SSW	2	o	51	97	6	220	St	10	–	10	6
Roches Point	1004·9	+2	SW	1	ed	49	97	6	800	St	10	–	10	3
Pembroke (St. Ann's H.)	1006·4	+1	SSW	3	ff	48	97	1	220	St	10	–	10	•
Ross-on-Wye	1011·6	0	SW'S	3	o	39	92	6	1500	Nb	10	–	10	•
Leafield	1013·1	-1	S'E	5	ed	34	97	6	800	St	10	–	10	•
Winchester (Worthy Dn.)	1014·7	-2	SSE	5	cr	36	97	7	800	Nb	10	–	10	•
S. Farnborough ...	1014·9	-1	SSE	4	ocr	37	92	6	800	Nb	10	–	10	•
London (Kew Obsy.) ...	1015·5	-1	S	4	cr	27	92	5	1500	Nb	8	a.St	9	
Croydon	1016·1	-2	S	6	ed	36	92	5	800	Nb	5	a.St	10	•
Shoeburyness	1017·7	-3	S	6	c/r	36	97	7	800	St	8	–	10	2
Clacton-on-Sea ...	1018·7	-2	SSW	6	orr	34	97	6	2500	St	10	–	10	6
Felixstowe	1018·5	-2	SSE	6	ors	34	97	5	800	Nb	10	–	10	•
Lympne	1019·0	-1	SSE	6	or	35	92	5	800	Nb	10	–	10	5
Scilly (St. Mary's) ...	1009·4	+1	WSW	5	or	51	97	2	800	St	10	–	10	2
Falmouth (Pendennis)	1009·6	+1	WSW	4	ed	51	97	6	1500	St	6	a.St	10	2
Plymouth (Cattewater)	1010·1	0	S	1	or	48	97	4	220	St	10	–	10	7
Portland Bill	1011·4	-4	S	7	or	43	92	6	1500	Nb	10	–	10	3
Southampton (Calshot)	1015·3	-3	S'E	5	or	38	92	6	1500	Nb	10	–	10	5
Dungeness	1018·5	-4	S	6	or	37	92	7	1500	Nb	10	–	10	8
Guernsey (Fort George) P	1014·7	-2	S	5	or	40	97	5	800	St	10	–		

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 28th 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	bc	c	23	29	–	–	3·9
Douglas (I. o. M.) ...	xco	orsd	30	38	–	0·5	0·0
Llandudno ...	o	o	35	41	7	–	0·0
Colwyn Bay ...	o	o	35	40	9	–	0·0
Rhyl	oco	o	33	43	5	–	0·0
Wallasey	rs	r	31	37	15	0·3	0·0
Southport	of	or	31	35	2	0·1	0·0
Blackpool	o	od	25	34	–	0·3	0·0
Ilkley	xco	mo	22	35	2	–	0·0
Cleethorpes	of	o	31	41	0·2	–	0·0
Skegness	o	o	31	39	0·3	–	0·0
Aberystwyth ...	prc	oc	35	43	5	–	0·0
Bath	mc	cr	?	41	Trace	Trace	0·0
Cheltenham ...	co	o	29	39	–	–	0·0
Leamington Spa ...	cb	o	27	38	0·4	–	1·0
Lowestoft	cfbc	cfcf	27	36	–	–	0·4
Harwich & Dovercourt	ocfs	ocfoc	28	38	–	(Trace)	0·0
Maldon	foc	f	24	37	–	–	0·0
Southend	of	ofcm	28	38	Trace	–	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	cir	r	34	44	0·6	1	0·0
Penzance	ovc	orir	36	47	1	7	0·0
Paignton	omorp	orp	29	45	–	2	0·1
Torquay	omcrp	orrq	33	45	–	2	0·4
Jersey	c	c	31	45	0·2	–	0·0
Weymouth	fcc	crc	30	46	1	0·5	0·0
Bournemouth ...	o	oror	28	44	0·5	1	0·1
Ventnor ...	rsxco	opo	30	43	2	0·5	0·0
Portsmouth (S'thsea)	of	or	29	43	1	0·4	0·1
Bognor	obcc	crr	27	42	1	0·5	0·2
Littlehampton ...	ccrc	ccr	25	40	0·5	1	0·2
Worthing	oc	or	26	40	Trace	2	0·2
Brighton	crbc	cd	28	41	Trace	2	0·0
Eastbourne	fco	orro	27	41	0·1	2	0·0
Hastings‖	xcof	omrd	29	41	0·4	2	0·9
Folkestone	xcfc	coro	28	40	–	0·4	2·8
Dover	mcbc	bccor	29	40	0·1	0·3	0·0
Tunbridge Wells ...	ofo	opo	20	41	–	Trace	1·8
Ramsgate	c	c	29	41	–	–	1·4
Margate	bc	bcc	27	41	–	–	2·0
Deal	bcc	oco	27	41	0·5	–	

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

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.24541 Wednesday, 30th January 1929.

Observations at 13h. G.M.T. 29th.

Stations (For heights see p. 4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1015·2	-1	SE	3	c	40	75	8	1500	SCu	10	-	10	•
Stornoway	1007·7	-2	E	2	bc-	40	85	7	4000	Cu	4	-	4	•
Wick	1010·6	-2	S	4	c	42	85	8	1500	CuNb	6	ASt	10	•
Tiree	1005·7	0	ESE	3	o	41	85	7	1500	St	10	-	10	0
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1010·1	-2	SE'S	4	cr₀	39	92	6	1500	Nb	8	ASt	10	2
Malin Head	1004·1	+2	S	2	c	46	97	7	1500	St	9	-	9	•
Renfrew	1008·2	+2	E	3	odd	35	97	4	800	St	10	-	10	7
Edinburgh (Inchkeith)	1008·6	0	SE	1	or₀	37	92	7	800	Nb	10	-	10	•
Leuchars	1009·0	0	SE	2	c	37	92	6	2500	St	7	ASt	10	2
Eskdalemuir	1009·1	+2	-	0	od₀	35	97	5	450	St	10	-	10	7
Tynemouth	1010·2	0	S	2	o/r₀	36	97	6	1500	Nb	10	-	10	6
Blacksod Point	1003·2	+4	-	0	oD-	45	92	7	-	Nb	10	-	10	•
Donaghadee	1006·2	+2	SW	2	c+	49	92	7	4000	SCu	8	-	8	•
Birr Castle	1004·6	•	S	2	c	54	92	6	1500	Cu	2	ASt	9	•
Holyhead	1007·9	+2	S	4	ffo	47	97	2	<150	St	10	-	10	2
Liverpool (Bidston)	1009·1	+1	S'E	4	c	45	85	7	4000	St	6	ACu	9	•
Chester (Sealand)	1008·5	+2	SSE	4	c	46	92	6	1500	St	9	-	9	1
Harrogate	1011·8	+1	S	2	fodd	35	97	2	<150	St	10	-	10	•
Spurn Head	1013·1	0	SSE	5	od₀	36	97	6	4000	Nb	10	-	10	•
Birmingham (Edgbaston)	1012·7	+1	S	4	od₀d₀	40	97	4	800	Nb	10	-	10	2
Cranwell	1019·2	+1	S	4	o	37	97	6	450	St	10	-	10	2
Gorleston	1017·8	0	S	7	ors-	35	97	6	800	Nb	10	-	10	•
Valentia (Cahirciveen)	1003·8	-1	S	5	or	53	97	6	450	St (Nb)	10	-	10	2
Roches Point	1007·4	+1	SW	2	ffo	49	97	3	450	St	10	-	10	•
Pembroke (St. Ann's H.)	1009·2	+2	SSW	2	FFo	49	97	1	220	St	10	-	10	•
Ross-on-Wye	1012·3	+1	SSW	3	o	44	92	6	1500	Nb	10	-	10	2
Leafield	1014·1	+2	SSE	4	fodd	38	97	2	<150	St	10	-	10	2
Winchester (Worthy Dn.)	1015·4	+1	SSE	4	or₀	40	97	4	450	Nb	10	-	10	2
S. Farnborough	1015·8	+1	SSE	4	orr	40	97	6	800	Nb	10	-	10	2
London (Kew Obsy.)	1016·1	0	S'W	4	cr₀r₀	41	92	5	450	Nb	8	ASt	10	1
Croydon	1016·3	+1	S	4	or₀r₀	40	85	6	800	Nb	10	-	10	2
Shoeburyness	1017·8	0	SSW	5	or₀	38	92	8	1500	Nb	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	1019·1	+1	S'E	6	or₀	36	85	7	800	Nb	10	-	10	2
Lympne	1018·6	-1	S'E	5	orr	35	97	6	220	Nb	10	-	10	2
Scilly (St. Mary's)	1012·0	+2	SW	5	ffo	52	97	2	800	St	10	-	10	•
Falmouth (Pendennis)	1012·6	+2	SWW	3	o/d	52	97	6	1500	St	10	-	10	•
Plymouth (Cattewater)	1013·6	+4	SSW	3	fodd	49	97	3	<150	St	10	-	10	2
Portland Bill	1013·4	+1	S	4	FFo	47	97	1	220	St	10	-	10	•
Southampton (Calshot)	1016·0	0	SSE	3	od₀d₀	41	97	6	800	Nb	10	-	10	2
Dungeness	1018·4	-2	S	6	or₀r₀	38	92	6	1500	Nb	10	-	10	•
Guernsey (Fort George)	1016·1	+2	SW	2	Fodd	49	97	1	<150	St	10	-	10	•

Observations at 18h. G.M.T. 29th.

Stations	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud Low Height Feet	Cloud Low Form	Cloud Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1013·3	-2	SE	3	o/r	42	85	7	1500	Nb	10	-	10	•
Stornoway	1006·7	-2	-	0	b	36	97	7	4000	St	10	-	10	0
Wick	1009·1	-2	S	5	c	40	97	8	1500	CuNb	6	ASt	10	3
Tiree	1005·4	0	E	4	od₀	41	97	6	450	Nb	10	-	10	4
Nairn	1007·5	•	-	0	c	34	85	8	1500	St	8	-	8	•
Aberdeen	1010·0	+1	SSE	2	o	40	92	5	1500	St	10	-	10	4
Malin Head	1004·7	0	SSE	1	cr₀	46	97	7	5700	Nb	1	ASt	10	0
Renfrew	1009·0	+1	E	3	fodd	36	97	4	800	Nb	10	-	10	•
Edinburgh (Inchkeith)	1008·4	0	ESE	2	o	38	97	7	800	St	10	-	10	0
Leuchars	1009·8	+1	-	0	od₀d₀	35	97	6	1500	St	10	-	10	•
Eskdalemuir	1010·5	+1	SW	1	od₀	35	97	4	220	St	10	-	10	•
Tynemouth	1011·4	+1	SW	2	ffo	38	92	3	1500	Nb	10	-	10	2
Blacksod Point	1001·0	+3	SE	2	oDD	47	92	6	•	Nb	10	-	10	2
Donaghadee	1007·3	+1	SSW	2	c+	48	92	6	2500	SCu	8	-	8	2
Birr Castle	1004·7	•	SSE	2	orr	53	97	6	1500	Nb	10	-	10	•
Holyhead	1009·1	+2	S	4	or₀+	49	97	5	450	Nb	10	-	10	1
Liverpool (Bidston)	1010·5	+2	SSE	5	c	45	92	5	1500	St	8	ACu	10	•
Chester (Sealand)	1011·0	+1	SE'S	4	c	45	85	6	2500	SCu	4	ASt	10	•
Harrogate	1012·9	+1	SSE	2	ffo	36	97	2	<150	St	10	-	10	•
Spurn Head	1014·8	0	SSE	5	o	37	97	6	2500	Nb	10	-	10	4
Birmingham (Edgbaston)	1014·3	+2	S	3	fo+	42	97	2	800	St	10	-	10	•
Cranwell	1015·2	+1	SSE	4	b/d₀	39	97	4	450	St	10	-	10	•
Gorleston	1018·6	+1	S	5	o/r	37	92	6	800	Nb	10	-	10	4
Valentia (Cahirciveen)	1003·8	+2	S	5	o/r	53	92	6	450	St	10	-	10	5
Roches Point	1008·2	+2	SW	3	odd	49	97	6	800	St	10	-	10	5
Pembroke (St. Ann's H.)	1010·8	+1	SSW	4	FFo	49	97	1	220	St	10	-	10	3
Ross-on-Wye	1014·1	+2	S'W	3	od₀+	48	97	6	800	Nb	10	-	10	•
Leafield	1015·5	+2	SSE	3	Fodd	40	97	1	<150	St	10	-	10	•
Winchester (Worthy Dn.)	1016·9	+2	SSE	3	fodd	43	97	2	<150	Nb	10	-	10	•
S. Farnborough	1017·2	+3	SSE	2	od₀	42	97	6	450	Nb	10	-	10	•
London (Kew Obsy.)	1017·9	+1	S	2	or₀r₀	42	97	5	800	Nb	10	-	10	•
Croydon	1017·4	+1	S	5	or₀	41	97	5	450	Nb	10	-	10	•
Shoeburyness	1019·1	+2	S'W	2	o/r	38	97	7	1500	St	10	-	10	•
Clacton-on-Sea	1019·4	+1	SSE	5	or	37	97	6	4000	St	10	-	10	4
Felixstowe	1019·7	+2	S'E	5	or₀	37	97	6	450	Nb	10	-	10	6
Lympne	1020·0	+2	S'E	4	od₀d₀	37	97	5	220	Nb	10	-	10	•
Scilly (St. Mary's)	1013·1	+1	SW	5	or₀	52	97	6	2500	St	10	-	10	6
Falmouth (Pendennis)	1014·2	+2	SW	3	o	51	97	6	1500	St	10	-	10	1
Plymouth (Cattewater)	1015·6	+2	S	5	or	51	97	5	220	St	10	-	10	2
Portland Bill	1017·3	+4	SW	4	Fo₀F	47	97	1	220	St	10	-	10	5
Southampton (Calshot)	1017·8	+3	SW	3	odd	44	97	3	<150	St	10	-	10	0
Dungeness	1020·1	+4	SSW	6	or₀r₀	40	97	6	800	Nb	10	-	10	6
Guernsey (Fort George)	1018·6	+3	SW	3	od₀	50	97	5	800	St	10	-	10	4

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

Station	Heights above M.S.L. in feet.	Weather (24 Hours ended 8h.) Morning.	Afternoon.	Night.	Temperature Max. Day °F.	Min. Night °F.	Min. on Grass °F.	Rainfall mm. Day.	Night.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cr₀r₀	cd₀m₀	cr₀e	42	42	40	2	1	0·0	•	•	7
Croydon	244	oddrr	om₀r₀r₀	or₀r₀m₀	41	41	41	2	0·5	0·0	•	•	5
Greenwich (Royal Obsy.)	149	er°r₀	err₀d₀	eid₀e	43	43	39	2	1	0·0	94	99	4
City (Bunhill Row)	80	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Pk.)	37	•	•	•	49	40	39	2		0·6	91	88	•
Regent's Pk. (Botanic Gdns.)	193	•	•	•	•	•	•	•	•	0·0	•	•	•
Camden Square	110	odor	oro	•	42	42	•	2	1	•	•	100	•
Kensington Palace	80	or	or	•	42	42	41	2	1	•	(At 18h) 91	92	•
Hampstead Observatory	450	•	•	•	43	41	38	3	1	0·0	•	99	•

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

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

South Kensington			
Max.	Time.	Min.	Time.
1·0	17h 29th	<0·3	5h 30th

Kew Observatory			
Max.	Time.	Min.	Time.
0·2	18h 29th	<0·1	1h 6h 30th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 29th 18h. 06m. to 30th 06h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	12·30	Nil	-
δ Ursae Minoris	12·30	Nil	-

CODE FOR STATE OF GROUND.

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

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET. 29th and 30th January, 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·41	12·7	16·32
	7·40	12·7	16·34
Greenwich	7·44	12·13	16·43
	7·43	12·14	16·45
Wick	8·26	12·26	16·26
	8·24	12·26	16·28
Valentia	8·27	12·54	17·23
	8·25	12·55	17·25

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

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

SEA DISTURBANCE.

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

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

§ TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

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

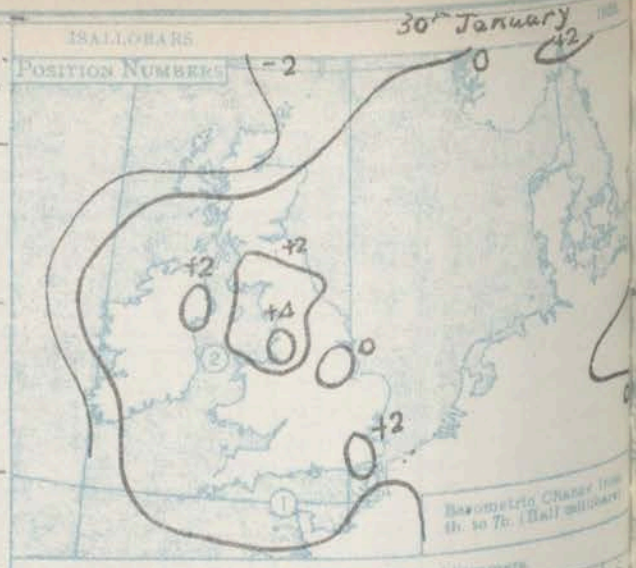
† Trace = rain has fallen, but amount less than 0·1 mm. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 29	18h.-18h. 29	18h. 29 to 1h.30	1h.-7h. 30	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	bcc	corr	coir	orr	42	39	•	1	14.30	7	<21.00	0.0
Stornoway	ocbc	bcco	orr	r-d	40	33	•	–	–	5	22.00	4.1
Wick	crrc	cprc	c	corr	42	40	•	2	<8.00	2	2.30	•
Tiree	oco	odd	dorr	orr	42	41	40	1	14.30	15	<21.00	0.0
Nairn	prsbc	bcc	co	dmo	39	33	•	Tr	<8.00	1	2.30	0.2
Aberdeen	ocir	cirzom	oddrrm	rrrrr	40	39	38	2	<8.00	8	<21.00	0.0
Malin Head	cdc	c	crmcmd	cir	46	46	•	0.3	<8.00	4	<21.00	0.0
Renfrew	orddm	oddff	omdrr	orr	36	36	35	3	<8.00	14	<21.00	0.0
Edinburgh (Inchkeith)	rro	oirdd	orr	orcifm	38	37	37	1	<8.00	4	<21.00	0.0
Leuchars	circm	coddm	oddfrr	orrrof	38	35	34	0.1	<8.00	5	<21.00	0.0
Eskdalemuir	odddm	oddm	oiddorm	ormRf	35	34	33	5	<8.00	13	<21.00	0.0
Tynemouth	orr	off	offorr	orr	38	38	36	2	<8.00	7	22.00	•
Blacksod Point	Dd	DD	od	Ro	47	47	•	2	•	12	•	•
Donaghadee	circ	cme	crrir	circ	49	48	•	0.1	<8.00	8	<21.00	•
Birr Castle	cm	oRR	orrc	cm	55	52	48	9	14.30	2	<21.00	0.0
Holyhead	ddjefe	ofefe	orrm	om	49	48	48	3	<8.00	6	<21.00	0.0
Liverpool (Bidston)	oc	cdm	emrrc	e	45	44	42	Tr	14.30	5	<21.00	1.0
Chester (Sealand)	cm	cm	cmorr	c	46	45	44	–	–	2	<21.00	0.5
Harrogate	omffdd	offdd	ofdorr	oc	36	36	34	0.4	<8.00	6	<21.00	0.0
Spurn Head	opsod	odoro	orommr	oFfpr	38	36	•	2	<8.00	4	<21.00	0.0
Birmingham (Edgbaston)	orsd	odf	for	oc	42	41	40	0.2	9.00	1	<21.00	0.0
Cranwell	orsfd	oidm	orrm	ofcm	39	39	37	1	<8.00	2	<21.00	0.0
Gorleston	orsrsq	orsrq	orrq	orrFfoe	37	36	35	5	<8.00	4	<21.00	0.0
Valentia (Cahirciveen)	oidfor	orrrd	ofefo	oidc	53	52	51	13	<8.00	0.2	<21.00	0.0
Roches Point	odffoe	foeodd	odc	coid	51	49	•	3	<8.00	2	<21.00	•
Pembroke (St. Ann's H.)	orFF	orFF	oFf	oifcm	50	47	•	2	<8.00	0.3	<21.00	0.0
Rosslyn-Wye	odiro	ood	rro	c	48	48	46	1	9.00	1	<21.00	0.0
Leafield	odoif	oridff	oFFRbc	c	40	39	39	2	<8.00	2	<21.00	0.0
Winchester (Worthy Dn.)	ormorm	oddff	odrrff	off	43	43	43	2	<8.00	2	<21.00	0.0
S. Farnborough	orrrrm	orromd	odrrom	om	42	42	41	5	<8.00	2	<21.00	0.0
London (Kew Obsy.)	crr	cdrm	crc	e	42	42	40	2	<8.00	1	<21.00	0.0
Croydon	oddrr	omrrr	orrm	orrmom	41	41	41	2	<8.00	0.5	<21.00	0.0
Shoeburyness	oirq	orr	or	om	38	37	38	2	<8.00	1	<21.00	0.0
Clacton-on-Sea	ogrd	ogr	ogrd	ogdfe	37	35	36	3	<8.00	2	<21.00	0.0
Felixstowe	ofrm	orrr	ofrom	omof	37	37	36	2	<8.00	2	<21.00	0.0
Lympne	oddmorm	orrmdd	oprdrF	orrat	37	37	35	5	<8.00	2	<21.00	0.0
Scilly (St. Mary's)	offlr	offlr	orc	c	52	50	•	0.5	<8.00	0.1	<21.00	0.0
Falmouth (Pendennis)	Dm	omr	c	cr	52	49	•	0.3	<8.00	Tr.	4.30	0.0
Plymouth (Cattewater)	ordFf	oFerrm	omqd	oc	51	48	47	1	<8.00	0.1	<21.00	0.0
Portland Bill	orrDF	oForrF	orrFoz	coFoz	48	46	•	2	<8.00	1	<21.00	•
Southampton (Calshot)	orddm	oddDm	oDDozd	oddfe	44	43	41	2	<8.00	0.5	<21.00	0.0
Dungeness	Eprorr	orr	opromDd	ddbc	41	36	•	4	<8.00	2	<21.00	•
Guernsey	ohddFf	oddFfm	omod	bcm	51	46	•	3	<8.00	0.2	<21.00	0.0

Date 29th.



Observations from Cross Channel Steamers

Position	Date and Time	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
1	12h 29th	St Helier	S'w	5	dd	55	48	4
2	10h 29th	Scotia	S	4	ifc	49	48	5

GENERAL INFERENCE.

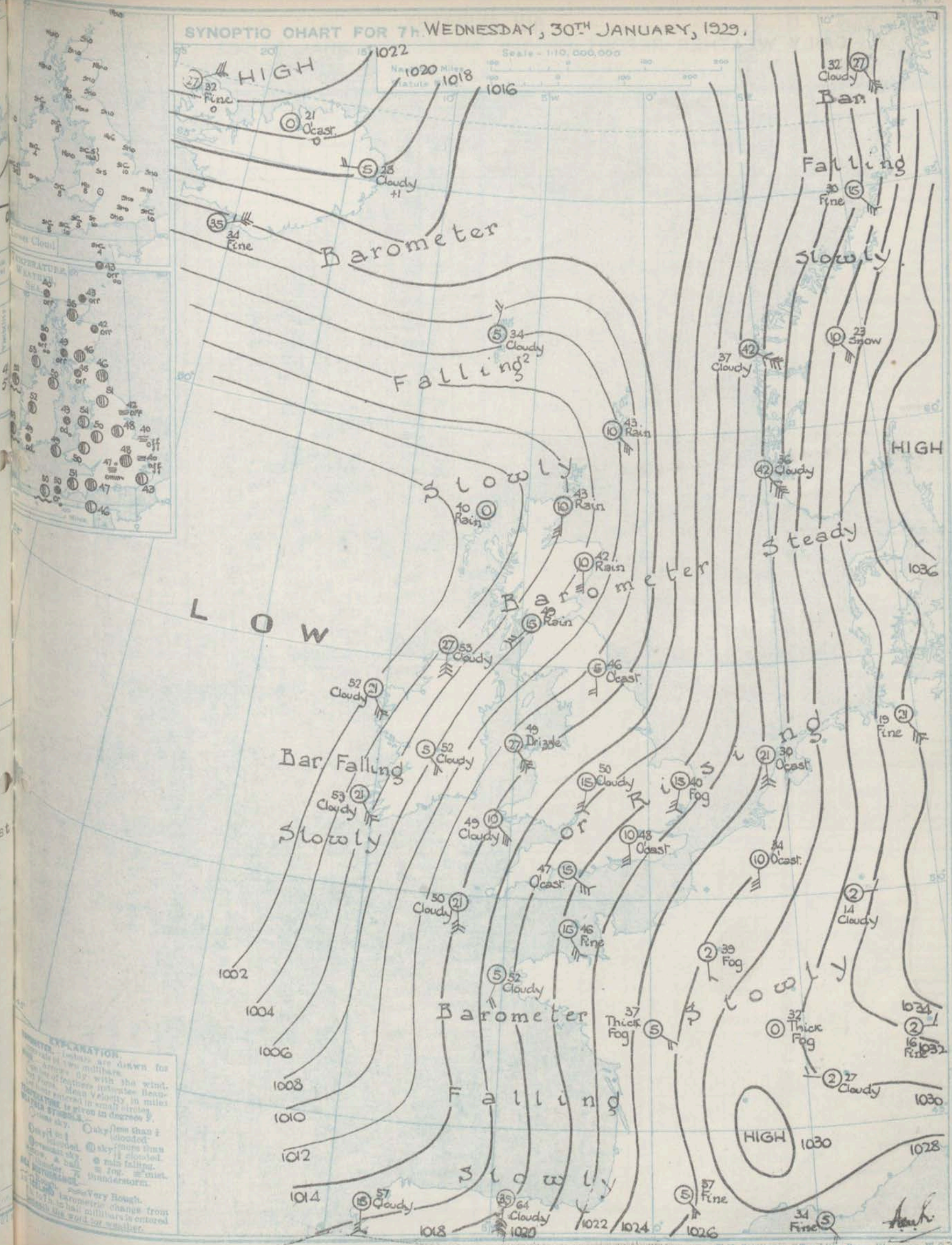
Secondaries, to a deep and almost stationary depression in Mid-Atlantic, will move northwards across the British Isles and weather be cloudy and mild with some rain or drizzle in most districts.

Districts.	Forecasts for the 24 hours commencing 12 Noon G.M.T. Wednesday, 30th January, 1929.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 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	ALL DISTRICTS. Winds southerly to southeasterly, moderate to strong, stronger at times locally, mainly cloudy; occasional rain or drizzle; local mist, perhaps fog; mild.	Unsettled; mild in the West moderate temperature in the East and extreme North.

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

‡ For code see page 1

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



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Wednesday, 30th January. 1929. No. 30

Stations	Height above M.S.L. in feet	1h. Barom. at M.S.L. mb.	1h. Change in 3 Hours	1h. Wind Direc.	1h. Wind Force 0-12	1h. Weather	1h. Temp. °F.	1h. Humidity %	1h. Visibility 0-9	1h. Low Cloud Height Feet	1h. Low Cloud Form	1h. Low Cloud Amt. 0-10	1h. Upper Form	1h. Total Amt. 0-10	7h. Barom. at M.S.L. mb.	7h. Change in 3 Hours	7h. Wind Direc.	7h. Wind Force 0-12	7h. Weather	7h. Temp. °F.	7h. Humidity %	7h. Visibility 0-9	7h. Low Cloud Height Feet	7h. Low Cloud Form	7h. Low Cloud Amt. 0-10	7h. Upper Form	7h. Total Amt. 0-10	Sea 0-9
		Observations at 1h. G.M.T. 30th.													Observations at 7h. G.M.T. 30th.													
Lerwick	54	1010·6	-3	SE	3	or₀	42	97	7	1300	Nb	10	–	10	1009·0	-1	SE	3	or₀r₀	43	97	7	1500	Nb	10	–	10	·
Stornoway	30	1007·3	-2	NNW	1	or₀r₀	·	·	6	·	·	·	·	10	1002·7	-3	–	0	orr	40	97	6	2500	Nb	10	–	10	1
Wick	81	1007·6	-1	SW	1	c	42	97	8	1500	St	6	aSt	10	1005·6	-2	S	3	orr	43	97	6	1500	St	10	–	10	3
Tiree	22	·	·	·	·	·	·	·	·	·	·	·	·	·	1002·9	0	S	6	or₀r₀	50	97	6	450	Nb	10	–	10	4
Nairn	83	·	·	·	·	·	·	·	·	·	·	·	·	·	1005·3	·	–	0	o+	35	92	6	800	St	10	–	10	·
Aberdeen	37	·	·	·	·	·	·	·	·	·	·	·	·	·	1008·6	0	S	3	orr	42	97	5	1500	Nb	10	–	10	0
Malin Head	51	1003·0	0	S	5	cr	53	97	7	5700	Nb	3	aSt	10	1003·8	+1	S	6	c/r	53	97	7	5700	StCu	9	–	9	3
Renfrew	36	·	·	·	·	·	·	·	·	·	·	·	·	·	1008·3	0	SW	4	orr	49	97	7	800	Nb	10	–	10	·
Edinburgh (Inchkeith)	160	1008·0	-1	ESE	2	orr	40	97	7	800	Nb	10	–	10	1008·1	0	S	3	o/r	46	97	8	800	St	10	–	10	1
Leuchars	30	·	·	·	·	·	·	·	·	·	·	·	·	·	1008·7	+1	–	0	ffo	38	97	3	<150	St	10	–	10	·
Eskdalemuir	794	·	·	·	·	·	·	·	·	·	·	·	·	·	1011·4	+2	S'W	5	orr	45	97	3	<150	Nb	10	–	10	·
Tynemouth	87	1011·5	0	SSW	1	or₀r₀	41	92	6	1500	Nb	10	–	10	1012·7	+2	S	2	o/r	46	92	6	1500	St	10	–	10	2
Blacksod Point	18	1001·0	+2	SE	5	oDD	50	92	6	·	Nb	10	–	10	1002·3	+1	SSE	5	c	52	85	7	·	–	0	aSt	10	6
Donaghadee	40	·	·	·	·	·	·	·	·	·	·	·	·	·	1008·9	+1	SW'W	4	c	50	92	7	4000	StCu	8	–	8	3
Birr Castle	173	·	·	·	·	·	·	·	·	·	·	·	·	·	1007·4	·	SSE	2	c-	52	97	6	1500	StCu	4	aSt	10	·
Holyhead	26	1010·9	+1	S	5	o	50	97	5	220	St	10	–	10	1012·4	+2	S'E	6	od₀	49	97	5	220	Nb	10	–	10	·
Liverpool (Bidston)	189	·	·	·	·	·	·	·	·	·	·	·	·	·	1014·4	+4	SW	1	c	54	85	7	1500	StCu	8	–	8	·
Chester (Sealand)	16	·	·	·	·	·	·	·	·	·	·	·	·	·	1013·4	+2	SE	4	c	55	75	7	1500	StCu	9	–	9	
Harrogate	478	·	·	·	·	·	·	·	·	·	·	·	·	·	1015·1	+1	SW'S	4	c	57	85	7	2500	Nb	6	aSt	10	·
Spurn Head	29	1015·6	0	S	4	o	40	97	5	2500	Nb	10	–	10	1015·9	0	SE	4	FFo	42	97	1	<150	St	10	–	10	4
Birmingham (Edgbaston)	535	·	·	·	·	·	·	·	·	·	·	·	·	·	1017·6	+1	SSW	4	c	50	97	6	800	St	5	aSt	10	·
Cranwell	236	1016·8	+1	S	4	fo	43	97	2	220	St	10	–	10	1016·9	0	S'W	3	c/m	48	97	6	1500	StCu	10	–	10	·
Gorleston	11	1021·2	+1	S	4	orr	37	97	5	800	Nb	10	–	10	1020·6	0	SSW	4	ffo	40	97	2	450	St	10	–	10	1
Valentia (Cahirciveen)	20	1006·0	0	S	5	od₀+	53	97	6	·	St	10	–	10	1004·1	-2	SSE	5	c	53	92	7	800	St	10	–	10	6
Roches Point	22	·	·	·	·	·	·	·	·	·	·	·	·	·	1010·7	+1	SW	3	od	49	97	6	800	St	10	–	10	5
Pembroke (St. Ann's H.)	150	1013·6	+2	SSW	4	ifc	49	92	5	800	StCu	10	–	10	1014·4	0	SSE	3	c/m	49	92	7	1500	StCu	8	–	8	2
Ross-on-Wye	225	·	·	·	·	·	·	·	·	·	·	·	·	·	1017·9	+1	SW'S	2	c	50	92	7	2500	Nb	8	aSt	10	·
Leafield	612	·	·	·	·	·	·	·	·	·	·	·	·	·	1018·8	+1	S'W	4	c	47	97	6	–	–	0	aSt	10	·
Winchester (Worthy Dn.)	273	·	·	·	·	·	·	·	·	·	·	·	·	·	1020·2	0	SSE	3	ffo	47	97	2	220	St	10	–	10	·
S. Farnborough	237	·	·	·	·	·	·	·	·	·	·	·	·	·	1020·4	+1	S	3	mmo	47	97	4	450	St	10	–	10	·
London (Kew Obsy.)	18	·	·	·	·	·	47	·	·	·	·	·	·	·	1020·8	+1	S	3	o	48	97	5	800	St	10	–	10	·
Croydon	244	1020·2	+2	SSW	3	or₀r₀	47	97	5	450	Nb	10	–	10	1021·5	+2	S	4	or₀	47	97	4	220	Nb	10	–	10	·
Shoeburyness	11	·	·	·	·	·	·	·	·	·	·	·	·	·	1021·7	+1	SW	2	ifc	43	97	3	4000	StCu	6	aSt	10	·
Clacton-on-Sea	54	·	·	·	·	·	·	·	·	·	·	·	·	·	1021·7	0	S	4	ffo	40	97	2	1500	St	10	–	10	3
Felixstowe	16	·	·	·	·	·	·	·	·	·	·	·	·	·	1021·4	+1	SSW	4	FFo	41	97	1	<150	St	10	–	10	3
Lympne	350	1021·6	+1	SSE	3	ob₀b₀	41	97	0	<150	St	10	–	10	1022·7	+1	SE	2	Fo-	41	97	2	<150	St	10	–	10	·
Scilly (St. Mary's)	153?	1014·7	0	SSW	5	c	51	97	7	4000	StCu	8	–	8	1014·6	0	S	5	c	50	92	7	4000	StCu	8	–	8	6
Falmouth (Pendennis)	200	1015·5	+1	SSE	3	c	50	92	7	4000	StCu	10	–	10	1015·8	0	SE	3	cr₀	50	97	7	4000	StCu	10	–	10	1
Plymouth (Cattewater)	88	·	·	·	·	·	·	·	·	·	·	·	·	·	1018·1	0	SE	1	c	51	85	7	4000	StCu	5	aSt	9	1
Portland Bill	32	1018·3	0	S'W	4	c-	48	97	6	2500	StCu	10	–	10	1019·1	0	ESE	4	o/m	47	97	6	1500	St	10	–	10	5
Southampton (Calshot)	10	1019·9	+2	SW'W	4	od₀d₀	46	97	6	800	Nb	10	–	10	1020·8	+1	SSE	2	fo+	43	97	3	800	St	10	–	10	0
Dungeness	20	1021·4	+2	SSW	3	oDD	43	97	5	800	Nb	10	–	10	1022·3	+2	S	3	c	43	97	7	4000	StCu	10	–	10	4
Guernsey (Fort George) P	280?	1020·8	+2	S	3	c+	50	97	6	4000	StCu	10	–	10	1020·5	0	S'E	4	bc	46	97	6	2500	StCu	4	aCu	7	4

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

Stations (1)	Weather: Forenoon (2)	Weather: Afternoon (3)	Temperature: Min. 9h. 28th to 9h. 29th (4)	Temperature: Max. 9h.-17h. 29th (5)	Rainfall†: Night 17h.-9h. 28th-29th (6)	Rainfall†: Day 9h.-17h. 29th (7)	Sunshine: Sunrise to Sunset 29th (8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	or₀	o	25	38	4	Trace	0·0
Douglas (I. o. M.)	ofd	ofd	32	48	22	1	0·0
Llandudno	c	c	36	54	6	–	0·4
Colwyn Bay	cb	co	36	54	7	–	1·7
Rhyl	obc	c	33	52	3	–	0·9
Wallasey	ocbco	or₀o	35	45	7	Trace	0·4
Southport	oco	or₀o	*35	44	8	0·2	0·0
Blackpool	o	odo	28	42	11	0·1	0·0
Ilkley	od₀	om	24	36	14	3	0·0
Cleethorpes	o	or	31	37	6	2	0·0
Skegness	dsrsbr	obrd	32	37	7	0·4	0·0
Aberystwyth	bcd	do	39	52	4	0·5	0·0
Bath	cr	rcm	28	47	5	2	0·0
Cheltenham‡	oir₀	om₀	35	41	2	0·5	0·0
Leamington Spa	or	o	31	42	5	1	0·0
Lowestoft	cpscr	cir	32	37	5	4	0·0
Harwich & Dovercourt	ocr	ocr	31	39	4	3	0·0
Maldon	srr	rr	31	38	3	3	0·0
Southend	or	or	30	38	3	2	0·0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	oer	r₀r₀	40	54	4	0·3	0·0
Penzance	com	or₀m	43	54	15	0·5	0·0
Paignton	ofe	ofeubc	39	53	13	Trace	0·1
Torquay	Rqodm	odomd	40	54	10	Trace	0·1
Jersey	dr	co	34	45	·9	–	0·0
Weymouth	or	orif	32	50	16	–	0·0
Bournemouth	d	d	31	49	9	–	0·0
Ventnor	orm	orm	33	45	7	4	0·0
Portsmouth (S'thsea)	od	odf	32	43	6	–	0·0
Bognor	cid₀	oid₀	36	42	8	2·	0·0
Littlehampton	cror	or₀omr	29	43	8	2	0·0
Worthing	ord	or₀d	31	42	9	–	0·0
Brighton	r	r	30	42	7	3	0·0
Eastbourne‡	rrb	od₀d₀	35	41	4	3	0·0
Hastings‖	ordo	opro	34	41	3	3	0·0
Folkestone	orrm₀	orrm	32	38	2	3	0·0
Dover	orsir	oird	35	38	1	2	0·0
Tunbridge Wells	or	orom	33	39	3	3	0·0
Ramsgate	d₀o	o	32	37	0·2	–	0·0
Margate	cd	c	32	38	1	–	0·0
Deal	ood	d	31	37	1	–	0·0

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

‡ At stations marked thus the maximum temperature is for the period 21h.-17h., the minimum for the period 21h.-9h. ‖ 12h.-9h.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 24542 Thursday, 31st January 1929.

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

STATIONS. (For heights see p.4).	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	State of ground.
Lerwick	1005·8	-5	SSE	3	or,r₀	45	97	7	1500	Nb	10	–	10	•
Stornoway	1003·2	+4	SW	3	orr	50	97	4	1500	Nb	10	–	10	•
Wick	1005·7	+1	S	4	c	44	97	8	1500	St	5	ASt	10	•
Tiree	1006·1	+3	S	6	c	49	92	7	1500	St	9	ACu	10	1
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1009·0	+1	–	0	c-	48	92	7	1500	St	1	ACu	9	2
Malin Head	1006·1	+1	S	6	c	53	92	7	4000	StCu	9	–	9	•
Renfrew	1011·4	+4	SSW	5	c r₀r₀	50	92	6	1500	Nb	6	ASt	10	2
Edinburgh (Inchkeith)	1011·5	+5	W	2	c	50	85	8	2500	St	3	ACu	9	•
Leuchars	1011·2	+3	WSW	3	c	51	85	7	2500	StCu	3	ACu	9	2
Eskdalemuir	1014·8	+2	S'W	4	o	47	97	7	800	St	10	–	10	2
Tynemouth	1014·8	+1	S	2	o/f	50	85	6	1500	St	10	–	10	•
Blacksod Point	1003·0	+1	S	3	c	53	85	8	–	–	0	ASt	9	•
Donaghadee	1011·1	+2	SSW	4	c-	50	92	7	2500	StCu	9	–	9	•
Birr Castle	1006·5	•	S	5	c-	55	85	7	2500	StCu	8	–	8	•
Holyhead	1013·0	0	SSE	5	c	53	85	7 8	–	–	0	ASt	9	2
Liverpool (Bidston)	1015·4	+1	S'E	4	c/pr₀	51	85	7	4000	St	4	ASt	9	•
Chester (Sealand)	1015·4	+1	ESE	3	c	53	85	5	4000	StCu	2	ASt	9	1
Harro[illegible]d	1016·1	+2	S	3	c	55	75	5	2500	St	3	CiCu	9	•
Bi[illegible]gham (Edgbaston)	1018·6	+1	S	4	c	46	97	5	5700	StCu	7	ASt	10	•
Cranwell	1018·2	-1	SSW	3	c-	52	85	6	2500	StCu	4	ASt	9	2
Gorleston	1019·4	+2	SSE	3	c	49	92	5	800	St	10	–	10	1
	1022·6	+2	S'E	3	FFo	40	97	1	220	St	10	–	10	•
Valentia (Cahirciveen)	1002·1	-4	S'E	7	cdo	55	85	7	1500	St	10	–	10	2
Roches Point	1007·9	-2	SW	4	c	50	92	7	1500	StCu	10	–	10	•
Pembroke (St. Ann's H.)	1013·9	-1	SSE	4	c	49	92	7	1500	StCu	4	ASt	8	•
Ross-on-Wye	1017·2	0	S'W	3	bc+	56	75	8	4000	StCu	1	ACu	7	2
Leafield	1019·0	-1	SSE	4	c-	51	92	8	4000	StCu	6	ACu	8	2
Winchester (Worthy Dn.)	1020·4	-1	SE	4	o+	47	97	5	450	St	10	–	10	2
S. Farnborough	1020·9	-1	SSE	2	c-	49	97	6	450	StCu	7	ACu	9	2
London (Kew Obsy.)	1021·1	-1	S'E	2	fc-	49	97	4	2500	StCu	8	ACu	9	2
Croydon	1021·3	-1	S'E	3	c/r₀	47	92	5	5700	StCu	9	–	9	2
Shoeburyness	1022·4	+1	S	1	c-	45	92	6	5700	StCu	8	–	8	•
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1022·7	0	SSE	2	Fo+	40	97	1	<150	St	10	–	10	2
Lympne	1022·7	-1	SE	3	mf c-	41	97	4	4000	StCu	9	–	9	2
Scilly (St. Mary's)	1013·7	0	S	6	c	51	92	5	4000	StCu	8	–	8	•
Falmouth (Pendennis)	1014·8	-1	SE'S	2	bc-	50	92	6	4000	StCu	4	ACu	7	•
Plymouth (Cattewater)	1016·3	-3	SE	4	c	53	75	8	4000	Nb	8	ASt	9	2
[illegible]and Bill	1018·1	-3	ENE	4	c	46	92	6	2500	StCu	6	ACu	9	•
Southampton (Calshot)	1021·1	0	ESE	4	FFo	43	97	1	<150	St	10	–	10	2
Dungeness	1022·8	-1	S	2	c	43	97	1	4000	StCu	4	ACu	9	•
Guernsey (Fort George)	1019·5	-2	S'E	4	c	48	85	7	4000	StCu	4	ACu	8	•

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

STATIONS.	Barom. at M.S.L. mb.	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Cloud. Low. Form	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1006·5	+1	S	2	or,r₀	46	97	7	1500	Nb	10	–	10	•
Stornoway	1005·9	+3	SW	4	bc-	50	92	7	4000	CuNb	4	–	4	3
Wick	1007·8	+2	SSW	3	c	47	92	8	2500	StCu	6	ASt	10	3
Tiree	1005·7	0	S	7	c	49	97	8	1500	StCu	10	–	10	6
Nairn	1008·6	*	–	0	bc	46	92	8	1500	CuNb	7	–	7	•
Aberdeen	1011·3	+2	SSW	3	c	47	92	6	2500	StCu	9	–	9	0
Malin Head	1006·6	+1	S	5	c	55	85	7	5700	StCu	9	–	9	3
Renfrew	1012·0	0	ESE	2	c	48	85	6	800	St	7	ASt	9	•
Edinburgh (Inchkeith)	1012·0	+1	W	1	bc	52	85	7	1500	St	3	ACu	4	0
Leuchars	1013·4	+2	W	2	bc-	44	97	6	800	St	3	ACu	7	•
Eskdalemuir	1014·3	-1	–	0	c-	43	92	7	2500	StCu	6	ASt	8	•
Tynemouth	1015·3	+1	SW	2	ff o	50	85	3	1500	St	10	–	10	2
Blacksod Point	1000·7	-3	SSE	7	c	55	75	7	•	CuNb	9	–	9	8
Donaghadee	1011·3	0	SW	3	bc-	49	85	7	4000	StCu	7	–	7	3
Birr Castle	1006·5	*	SE	3	c	53	85	7	2500	Cu	5	ASt	8	•
Holyhead	1012·4	-1	SSE	3	c	51	85	6	–	–	0	CiSt	8	1
Liverpool (Bidston)	1014·3	0	SE	4	c-	51	85	6	4000	Nb	1	ASt	9	•
Chester (Sealand)	1014·6	-2	SSE	4	c	52	85	6	2500	StCu	6	ASt	10	•
Harro[illegible]d	1016·9	+1	S	3	or,r₀	50	85	5	2500	St	10	–	10	•
Bi[illegible]gham (Edgbaston)	1018·6	0	SSE	2	mmo	42	97	4	450	St	10	–	10	3
Cranwell	1017·4	-1	S'W	3	o+	51	85	7	1500	St	10	–	10	•
Gorleston	1019·3	0	S'E	3	c/r	47	97	6	2500	StCu	10	–	10	•
	1022·4	0	S	5	FFo	38	97	1	220	St	10	–	10	1
Valentia (Cahirciveen)	1003·8	+2	S	6	c	53	85	7	1500	St	8	–	8	6
Roches Point	1008·5	+1	SW	3	c	49	97	8	1500	StCu	10	–	10	5
Pembroke (St. Ann's H.)	1011·9	-1	SSE	4	bc-	49	85	7	1500	StCu	4	ASt	7	2
Ross-on-Wye	1016·7	0	S	3	c	52	75	6	–	–	0	ASt	10	•
Leafield	1018·5	-1	SE'S	4	c+	46	92	7	4000	StCu	10	–	10	•
Winchester (Worthy Dn.)	1019·3	-2	SE	3	c	47	92	6	4000	StCu	9	–	9	•
S. Farnborough	1020·2	-1	SE	4	c	47	92	6	5700	StCu	9	–	9	•
London (Kew Obsy.)	1020·6	-1	–	0	mc+	46	92	4	–	–	0	ACu	9	•
Croydon	1020·6	-1	S'E	5	c	47	85	6	4000	StCu	4	ACu	8	•
Shoeburyness	1022·1	0	SSE	2	bc-	41	97	6	–	–	0	ACu	4	•
Clacton-on-Sea	1022·5	0	SE	3	bc	39	97	6	5700	Cu	2	ACu	6	3
Felixstowe	1022·9	0	S'E	3	bc	40	97	6	4600	StCu	4	ACu	7	3
Lympne	1022·7	0	SE	4	FFo	41	97	1	<150	St	10	–	10	•
Scilly (St. Mary's)	1013·2	+1	S	6	orr	51	97	5	2500	Nb	10	–	10	5
Falmouth (Pendennis)	1014·2	+1	S'W	2	c	50	92	6	4000	StCu	7	CiSt	10	1
Plymouth (Cattewater)	1016·2	0	SE	4	c	51	85	8	4000	Nb	8	ASt	9	1
[illegible]and Bill	1017·6	0	ENE	4	c-	46	92	6	2500	StCu	3	CiSt	8	4
Southampton (Calshot)	1019·2	-2	SE'E	5	c	45	92	6	4000	StCu	5	ACu	9	3
Dungeness	1022·8	0	S	3	Fo+	43	97	1	<150	St	10	–	10	3
Guernsey (Fort George)	1018·7	-1	S	5	c+	52	75	8	~~4000~~ 1500	St	8	–	8	6

London Observations.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. Day. °F.	Temperature. Min. Nght. °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.		
Day 7h.-18h., Kew & Croydon. 9h.-18h., Kensington. 9h.-21h., other stations.													
Kew	18	o m	bc m₀	cbc m₀f₀	50	44	40	–	Tr	0·5	*	*	
Croydon	244	or₀ ff	cbc m₀	c m₀f₀	50	44	42	Tr	Tr	0·0	*	*	5
Greenwich (Royal Obsy.)	149	c	c	cu cdar	51	43	38	–	1	0·2	87	97	4
City (Bunhill Row)	80	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Pk.)	27	*	*	*	53	45	39	0·5	*	0·0	85	94	*
Regent's Pk. (Botanic Gdns.)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	o c	ccf	*	47	45	*	–	1	*	*	95	*
Kensington Palace	80	o m	bc	*	50	44	39	0·5	0·6	*	(At 18h) 92	92	*
Hampstead Observatory	450	*	*	*	48	41	37	2	1	0·0	*	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 7h. G.M.T. 31st

South Kensington Max.	Time.	Min.	Time.
1·2	21hrs 30th.	<0·3	5hrs 31st.

Kew Observatory Max.	Time.	Min.	Time.
0·3	18hrs 30th.	0·1	24hrs 30th.

Pole Star Record at Greenwich Obsy.

Exposure from 30th 18h. 00m. to 31st 6h. 30m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	12·30	00·08	1
δ Ursae Minoris	12·30	NIL	–

Code for State of Ground.

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

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

1st Jan. and 1st Feb., 1929.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·40	12·7	16·34
	7·38	12·7	16·36
Greenwich	7·43	12·14	16·45
	8·41	12·14	16·47
Wick	8·24	12·26	16·28
	8·22	12·26	16·31
Valentia	8·25	12·55	17·25
	8·29	12·55	17·26

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_0 = slight rain. rr = continuous rain.

Symbols.

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

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

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

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

Sea Disturbance.

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

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

¼ Telegraphic Code for Surface Visibility.

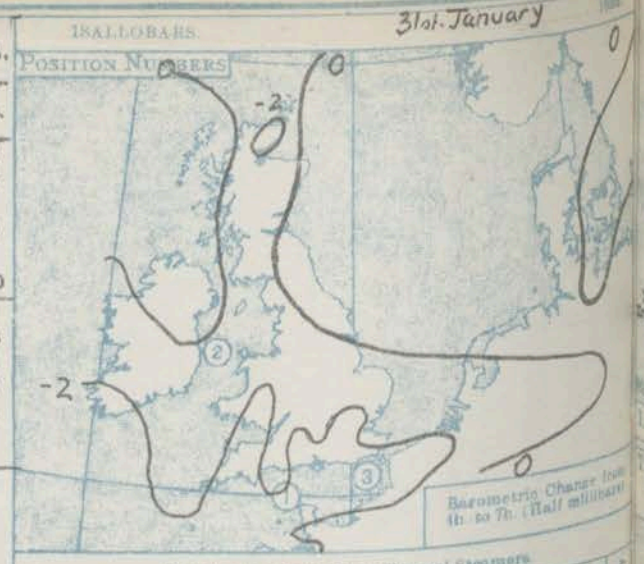
	Objects not visible at
0. Dense fog.	55 yards.
1. Thick fog.	220 "
2. Fog.	550 "
3. Moderate fog.	1,100 "
4. Mist or haze.	1¼ miles.
5. Poor visibility.	2¾ "
6. Moderate.	6¼ "
7. Good.	12½ "
8. Very good.	31 "
9. Excellent visibility, beyond 31 m.	

† 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. 30th.	18h.-18h. 30th.	18h.-18h. 30th to 18h. 31st.	18h.-7h. 31st.	Temperature. Max. Day. 7h.-18h.	Min. Night. 18h.-7h.	Min. on Grass.	Rainfall.† Day. 7h.-18h. mm.	began.	Night. 18h.-7h. mm.	began.	Sun. 30th. Hours.
Lerwick	orr	orr	c	cipf m	47	45	•	10	<8.00	Tr	<21.00	0.0
Stornoway	r-d	orurbc	c	co	50	47	•	7	<8.00	-	-	0.0
Wick	rrrc	c	b-bc	cpro	48	45	•	3	<8.00	1	<21.00	•
Tiree	ro	oco	oc	oc	50	46	44	1	<8.00	-	-	0.0
Nairn	omecd	cbc	bcqc	bcq	48	44	•	0.1	9.00	-	-	0.1
Aberdeen	orrmoc	cm	cbbcm	bccm	52	44	41	2	<8.00	-	-	0.0
Malin Head	c	c	cbc	bcc	55	50	•	-	-	-	-	0.1
Renfrew	orrro	cro	cmr	orrr	51	43	39	5	<8.00	3	24.00	0.0
Edinburgh (Inchkeith)	oroc	cbc	bccoim	oimc	53	43	41	0.3	<8.00	-	-	0.2
Leuchars	ofcdomnc	c	bcmcm	cmcrmr	51	34	32	0.1	<8.00	2	03.30	0.9
Eskdalemuir	~~oroeor~~	ocidc	cbc	bcorrom	49	39	35	2	<8.00	4	02.30	0.0
Tynemouth	off	off	off	o	50	45	42	-	-	-	-	•
Blacksod Point	c	bcq	Pqc	pc	57	50	•	0.2	•	1	•	•
Donaghadee	c	c	cm	idm	50	48	•	-	-	0.3	01.30	•
Birr Castle	c	c	c	cpr	56	50	46	-	-	0.1	04.30	0.2
Holyhead	dmc	cbcc	cmlr	rcm	55	48	47	0.1	<8.00	1	22.00	1.9
Liverpool (Bidston)	cpc	c	co	ocm	56	46	43	0.1	12.30	-	-	0.0
Chester (Sealand)	cm	cm	cm	cm	57	48	44	-	-	-	-	1.0
Harrogate	cbcc	crcor	or o	off	56	45	43	0.1	14.30	0.1	<21.00	0.3
Spurn Head	ofcmc	cfcmopr	omc	cpro	47	39	•	1	15.30	1	02.30	0.0
Birmingham (Edgbaston)	c	co	o	od	55	45	42	-	-	0.1	05.30	0.2
Cranwell	c	cirip	cfm	cm	52	41	39	1	14.30	Tr	<21.00	0.5
Gorleston	ffoe	f-oe	omffe	or r	44	38	37	0.2	-	0.2	05.30	0.0
Valentia (Cahirciveen)	cid	cidc	circ	cir	55	49	49	0.1	12.30	8	<21.00	0.0
Roches Point	oidc	c	coid	oidc	51	48	•	0.3	<8.00	3	22.00	•
Pembroke (St. Ann's H.)	cm	cbc	off FF	oFF	51	47	•	-	-	3	<21.00	2.9
Ross-on-Wye	ccbc	c	cbcco	or o	58	48	44	-	-	0.2	05.30	1.5
Leafield	citc	bc	cbc	c	53	43	42	0.1	-	Tr	-	1.2
Winchester (Worthy Dn.)	oFFcm	cmom	cbcbm	bbccm	51	43	41	Tr	-	-	-	0.6
S. Farnborough	omomcm	cocm	como	omor	49	43	42	0.1	11.00	Tr	06.30	0.2
London (Kew Obsy.)	om	bcm	cbc	bccmr	50	44	40	-	-	Tr	06.30	0.5
Croydon	orff	cbcm	cm	omr	50	44	42	Tr	<8.00	Tr	06.30	0.0
Shoeburyness	ofcm	cmbcm	or	orr	47	39	37	-	-	1	02.30	0.0
Clacton-on-Sea	ofcom	ombcm	bcomgm	ogmrr	42	38	36	-	-	2	02.30	0.0
Felixstowe	of	ofcbrm	bcmc	drm	42	38	37	Tr	15.30	2	04.30	0.0
Lympne	oFcm	cmbFe	oFeFe	oFed	42	39	36	Tr	<8.00	0.2	<21.00	0.0
Scilly (St. Mary's)	cm	cmor	co	orr	52	50	•	1	16.30	2	02.30	0.2
Falmouth (Pendennis)	cr	bccm	orcbc	bccr	52	49	•	Tr	<8.00	1	<21.00	0.5
Plymouth (Cattewater)	cr	c	com	om	54	49	48	0.1	<8.00	-	-	0.1
Portland Bill	ocz	cz	bcoz	odczo	48	46	•	-	-	Tr	24.00	•
Southampton (Calshot)	oferfbc	ofpcm	cmbc	bcwcrm	45	41	40	Tr	9.00	0.1	06.30	0.1
Dungeness	cmc	cmrF	oFffc	ccor	43	41	•	-	-	0.2	24.00	•
Guernsey	bccmq	cbcq	comq	orrcbc	52	47	•	-	-	1	05.30	2.4



Observations from Cross Channel Steamers

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	30th 10h	SCOTIA	S'E	6	pro	51	47	5
3	31st 2h.	ARUNDEL	S	3	c	40	46	6

GENERAL INFERENCE.

A deep depression remains centred west of Ireland and weather will continue rather unsettled with rain or drizzle at times in most places.

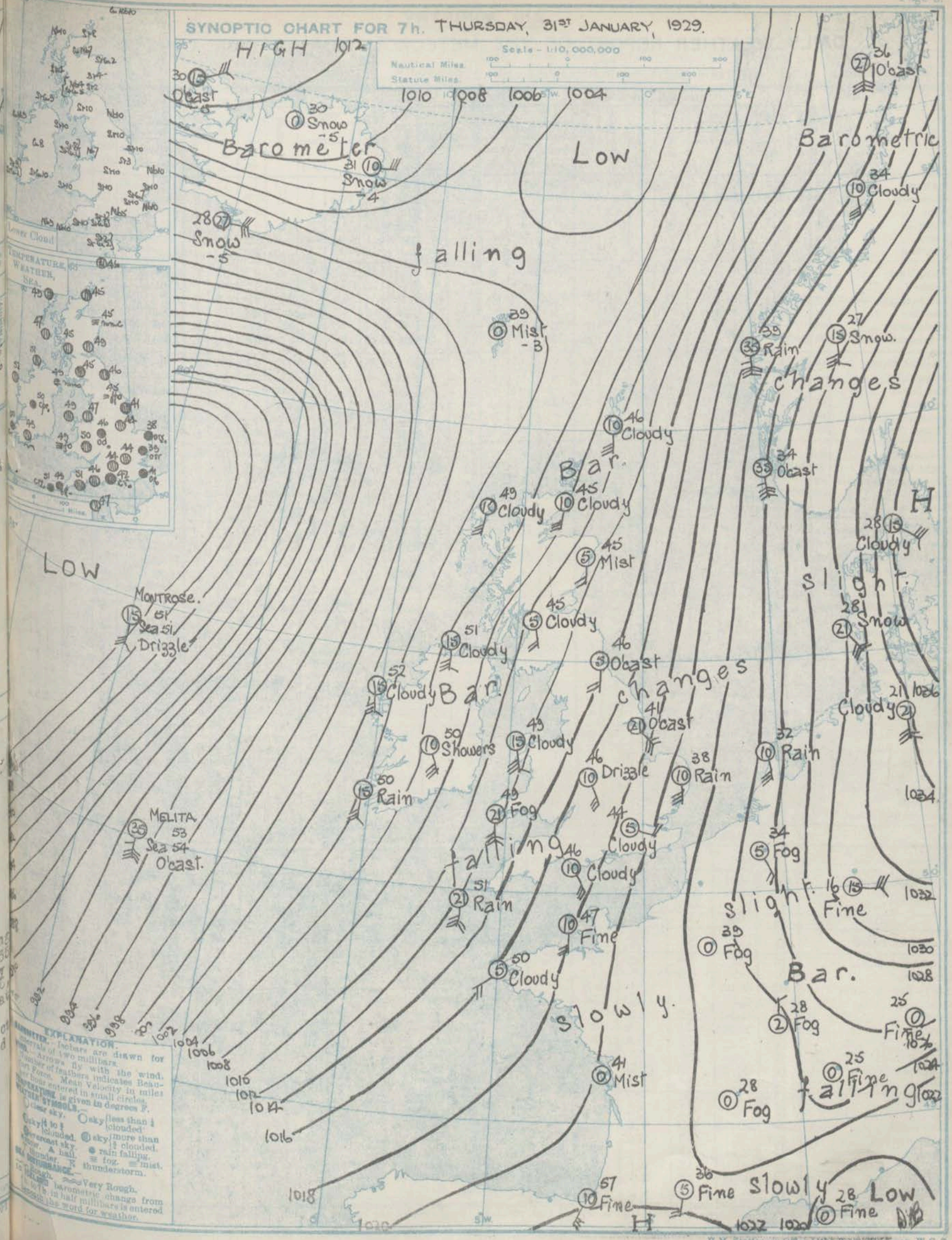
Forecasts for the 24 hours commencing 12 Noon G.M.T. Thursday, 31st January, 1929.

Districts.	Forecast	Further Outlook.
1. S.E. England 2. E. England	Southerly to southeasterly winds, moderate to strong; cloudy, occasional rain or drizzle; local mist or fog in coastal districts; rather low to moderate temperature.	
3. E. Midlands 4. W. Midlands 5. S.W. England ▽	Moderate southerly winds; cloudy, occasional rain or drizzle; local mist; moderate temperature.	
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 ▽ 13 B. 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	Southerly winds, moderate to strong, stronger at times locally; mainly cloudy but a few local brighter periods; occasional rain or drizzle in most places; local mist; rather mild.	Similar. ▽ South Gale flying. Hoisted at 13h.30 G.M.T. yesterday in districts 5, 6, 19 and 20; and at 8h 40m G.M.T. today in districts 13A, 13B, 17 and 18.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 G.M.T. G. C. SIMPSON, F.R.S., Director.

§ For code see page 1

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


SYNOPTIC CHART FOR 7h. THURSDAY, 31st JANUARY, 1929.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH 1012
1010 1008 1006 1004
Barometer falling
Low
Barometric changes
Bar. changes slight
Bar. falling slowly
Bar. falling
Bar. slight
LOW
H
Low
MONTROSE.
MELITA
Lower Cloud
TEMPERATURE, WEATHER, SEA.
EXPLANATION.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Thursday, 31st January 1929. No. 31

Stations.	Height above M.S.L. in feet.	1h. G.M.T. 31st. Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	7h. G.M.T. 31st. Barom. at M.S.L. mb.	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Cloud. Low. Height Feet	Low. Form	Low. Amt. 0-10	Upper Form.	Total Amt. 0-10	Sun. 0-9
Lerwick	64	1009.2	+1	S	3	c/p	46	97	7	1500	CuNb	5	aSt	9	1009.3	+1	S	3	c/p	46	92	6	1500	CuNb	10	–	10	•
Stornoway	30	1007.3	+1	WSW	4	c+	•	•	6	•	•	•	•	10	1005.4	+0	SSW	3	o	49	92	6	2500	Nb	10	–	10	2
Wick	81	1009.5	+2	S	3	c	48	85	7	1500	St	8	aSt	10	1008.5	–2	SSW	3	c	45	97	6	1500	St	10	–	10	4
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	1005.8	0	S'E	6	c	47	92	7	1500	St	4	aCu	9	4
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1007.8	•	SSW	4	bc	49	85	7	1500	CuNb	7	–	7	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	1012.0	+0	S	2	mmo	45	97	4	4000	StCu	2	aSt	9	0
Malin Head	51	1006.6	+0	S	5	bc	51	92	7	5700	StCu	6	–	6	1006.5	0	S	4	c	51	92	8	5700	StCu	9	–	9	3
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.1	–0	SSE	2	c/r	45	97	7	1500	StCu	9	–	9	•
Edinburgh (Inchkeith)	100	1011.8	–1	NNE	1	o	46	85	5	450	St	10	–	10	1011.4	0	W		bc–	49	85	7	1500	St	2	aSt	7	0
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.7	–1	–	0	mc/r	38	97	4	1500	St	4	aCu	9	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.0	–1	S	3	o/r	45	97	6	450	St	10	–	10	•
Tynemouth	87	1014.5	–1	SW	2	o	48	92	6	1500	St	10	–	10	1015.2	0	SSW	2	o	46	92	6	1500	Nb	10	–	10	2
Blacksod Point ...	18	1007.5	+2	S	8	c	52	92	6	•	CuNb	9	–	9	1002.4	–1	S	4	c	52	85	7	•	CuNb	9	–	9	5
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	1011.0	0	S	4	mmo	49	97	4	800	St	10	–	10	4
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	1005.8	•	SSE	3	c/pr.	50	92	7	1500	Cu	8	–	8	•
Holyhead	26	1012.5	0	S'E	4	o	48	97	5	450	St	10	–	10	1011.7	–1	S'E	4	c/r	49	97	6	800	St	9	–	9	1
Liverpool (Bidston) ...	192	•	•	•	•	•	•	•	•	•	•	•	•	•	1013.7	–1	S'E	4	bc–	47	92	6	4000	Nb	7	–	7	•
Chester (Sealand) ...	16	•	•	•	•	•	•	•	•	•	•	•	•	•	1014.4	–2	S	1	o	48	92	6	1500	St	10	–	10	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.7	0	S	2	ffo	45	92	3	<150	St	10	–	10	•
Spurn Head	29	1017.7	–0	SE'S	3	c	40	97	6	4000	CuNb	9	–	9	1017.3	0	SSE	4	o	41	97	6	2500	St	10	–	10	3
Birmingham (Edgbaston)	535	•	•	•	•	•	•	•	•	•	•	•	•	•	1016.8	–1	SSE	3	od.	46	97	5	1500	St	10	–	10	•
Cranwell	236	1019.2	0	SSE	2	mo–	42	97	4	2500	St	10	–	10	1018.7	–1	SSE	3	c–	44	97	5	1500	St	5	aSt	9	•
Gorleston	14	1021.4	–1	S	4	o/f	38	97	5	1500	St	10	–	10	1021.0	–1	S	3	ogr.	38	97	6	800	Nb	10	–	10	1
Valentia (Cahirciveen) ‖	30	1007.0	0	S	3	o	53	97	8	•	St	10	–	10	1003.9	–3	S	4	cr	50	97	7	800	St	10	–	10	4
Roches Point	32	[illegible]	•	•	•	•	•	•	•	•	•	•	•	•	1007.6	–2	SW	5	c	49	97	7	1500	StCu	10	–	10	6
Pembroke (St. Ann's H.)	150	[illegible]	0	S	4	ffo	49	97	1	220	St	10	–	10	1011.4	–1	S	4	fo–	49	97	3	450	St	10	–	10	3
Ross-on-Wye	226	•	•	•	•	•	•	•	•	•	•	•	•	•	1015.5	–2	S'E	3	o	50	92	5	1500	Nb	10	–	10	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.3	–2	SE	4	ffo	43	97	3	450	St	10	–	10	•
Winchester (Worthy Dn.)	272	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.2	–2	SSE	3	c	45	92	6	800	St	10	–	10	•
S. Farnborough ...	327	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.4	–2	SSE	3	o/r	44	97	5	450	St	10	–	10	•
London (Kew Obsy.) ...	18	•	•	•	•	•	45	•	•	•	•	•	•	•	1018.7	–3	E'S	2	mc/r	44	97	4	4000	StCu	7	aSt	9	•
Croydon	244	1021.0	+0	S'E	3	c	44	92	6	2500	StCu	5	aCu	10	1019.2	–2	SSE	4	c/r	44	92	5	2500	St	10	–	10	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.5	(–1)	SE	3	orr	41	97	6	4000	Nb	3	aSt	10	2
Clacton-on-Sea ...	54	•	•	•	•	•	•	•	•	•	•	•	•	•	1020.4	–1	S	4	orr	39	97	6	2500	St	10	–	10	2
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	1021.3	–1	SSE	3	orr	39	97	6	1500	Nb	10	–	10	•
Lympne	320	1021.3	–1	SE'E	4	fo–	41	97	2	<150	St	10	–	10	1020.7	–1	SE	4	od+	40	97	2	<150	St	10		9	5
Scilly (St. Mary's) ...	103	1013.7	0	S'W	5	c	51	97	6	2500	StCu	10	–	10	1012.0	–1	S'W	5	cgr.	51	97	6	2500	Nb	9	–	10	2
Falmouth (Pendennis)	200	1014.7	+1	SW'S	4	bc–	51	97	7	4000	Cu	3	aSt	5	1013.4	–2	SSE	4	or+	49	97	6	2500	Nb	10	–	10	1
Plymouth (Cattewater)	82	•	•	•	•	•	•	•	•	•	•	•	•	•	1014.9	–3	S	5	o	51	97	6	800	St	10	–	9	2
Portland Bill	32	1017.7	0	SSW	4	od.	49	85	6	2500	St Nb	10	–	10	1016.8	–1	SE	3	c–	46	97	6	1500	StCu	9	–	10	3
Southampton (Calshot)	10	1019.7	0	SE	4	bc+	42	92	7	2500	StCu	3	aSt	6	1018.3	–3	ESE	4	cr.	42	97	6	2500	Nb	5	aSt	10	3
Dungeness	20	1022.0	0	SSE	3	c/f	43	97	7	4000	StCu	10	–	10	1020.8	–3	SSE	3	or.	41	97	6	1500	Nb	10	–	4	4
Guernsey (Fort George) ‖	295	1019.2	+1	S	3	c+	49	92	6	4000	StCu	10	–	10	1018.1	–2	S	3	bc+	47	97	7	1500	St	4	–		

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 29th to 9h. 30th	Temperature. Max. 9h.-17h. 30th	Rainfall.† Night 17h.-9h. 29-30	Rainfall.† Day 9h.-17h. 30th	Sunshine. Sunrise to Sunset. 30th
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			°F.	°F.	mm.	mm.	hr.
Berwick-on-Tweed	o	c	34	53	4	–	0.0
Douglas (I. o. M.) ...	oc	c	44	50	12	–	0.0
Llandudno ...	c	c	49	60	1	–	0.3
Colwyn Bay ...	oc	coc	45	59	0.3	–	0.2
Rhyl	c	c	42	59	0.4	–	0.0
Wallasey	oc	oco	39	56	5	Trace	0.0
Southport	oco	orococo	*43	54	4	0.4	0.2
Blackpool	oc	oc	39	54	4	–	0.1
Ilkley	c	c	34	57	5	–	0.7
Cleethorpes	o	obo	33	(52)	2	0.2	0.0
Skegness	omco	o	34	48	4	Trace	0.0
Aberystwyth ...	pcbc	c	47	57	1	–	0.7
Bath	c	c	41	56	0.5	–	0.0
Cheltenham ...	cbc	bcco	47	58	3	–	2.6
Leamington Spa ...	c	c	37	54	1	–	0.0
Lowestoft	c+	c+	33	41	4	–	0.0
Harwich & Dovercourt	rac+	oc/bc	35	41	1	Trace	0.0
Maldon	rmoc	c/bc	36	48	2	Trace	0.0
Southend	o	ocre	36	46	0.4	Trace	0.0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Bude	ocbc	bcc	40	55	1	–	1.2
Penzance	c	c	50	52	–	–	0.1
Paignton	bocm	cbcoz	46	49	Trace	–	0.7
Torquay	bcm	cbcoo	48	51	0.2	–	1.0
Jersey	bc	bc	37	53	0.1	–	4.7
Weymouth	bc	bc	46	50	2	–	1.3
Bournemouth ...	bcc	coc	41	49	1	–	1.5
Ventnor ...	odmc	oz.	44	48	3	Trace	0.0
Portsmouth (S'thsea)	F	om	39	47	2	–	0.0
Bognor	o	o	40	46	3	–	0.0
Littlehampton ...	omc	cbco	39	46	3	–	0.0
Worthing	oc	c	39	46	3	–	0.0
Brighton	coc	bc	39	47	5	–	0.0
Eastbourne‖	ooc	bcb	41	46	2	–	0.0
Hastings‖	omdoc	cbccm	40	45	2	0.1	0.5
Folkestone	of	cof	35	44	1	–	0.1
Dover	fcom	mofe	35	42	1	Trace	0.1
Tunbridge Wells ...	fo	cbc	35	47	1	–	1.3
Ramsgate	omm	obcmm	34	42	1	–	0.3
Margate	c	coc	34	47	1	–	0.1
Deal	o	cbcc	34	44	1	–	0.4

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

* Information not usually received. ‖ The observations at 11h. G.M.T. and at Guernsey, the sunshine readings are from an auxiliary station. § For code see page 1. †: See footnote page 1.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION. CORRECTIONS AND ADDITIONS, January 1929

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st	Leuchars	13h. Ground 2
"	Eskdalemuir	" Visibility 8.
"	Pembroke	" Temp. 41
"	Donaghadee	18h. Temp. 33
"	Portland Bill	" Bar change ?
"	Scilly	1h. Wind force 7
"	Blacksod Pt.	7h. Temp. 35
"	Lympne	" Temp 36
"	Portland Bill	" Bar. change ?
"	Tiree	Weather 18h-1hr. bbcc
"	Renfrew	" " " bm.x
"	Guernsey	Rain (day) 1
"	Tiree	" (night) Nil.
"	Renfrew	" " Nil.
"	Torquay	Weather forenoon cqz
"	"	" afternoon ocbcb
2nd	Dover	Sun (rise to set 30th) 0·3
"	Lerwick	13h. Humidity 75%
"	Stornoway	" " 92%
"	Guernsey	" Temp. 41
"	Blacksod	18h. Weather c
"	"	" Cloud Ci.St. 10
"	Valentia	" Wind E.N.E.
"	Portland Bill	" Weather b
"	"	Cloud St. 1 at 1500'
"	Malin Hd.	1h. Wind force 2
"	" "	" Cloud St.Cu 2. A.Cu 4. (total 6)
"	Blacksod Pt.	7h. Temp. 37
"	Birmingham	" Wind force 3
"	Winchester	Weather 13h-18h. bcbm.cd
"	Brighton	Rain (day) Trace
"	Croydon	Visibility 9h. 4 (page 1)
"	Regent's Park	Sun 1·8
3rd	Holyhead	13h. Cloud form (low) Cu.
"	Portland Bill	" Bar change ?
"	Blacksod Pt.	18h. Weather c
"	"	" Cloud Ci.St. 10.
"	Portland Bill	" Bar. change ?
"	Lerwick	7h Bar. 1035·7.
"	Winchester	Weather 18h-1h. bcc
"	Pembroke	Max. 42
"	Falmouth	" 41
"	Dungeness	Min. 35
"	Gorleston	Rain (night) Trace
"	Roches Pt.	" " began <21·00
"	Bude	Max 46
"	Brighton	Rain (day) Trace
4th	Holyhead	13h. Bar. change -1
"	Plymouth	" Bar 1029·3
"	Portland Bill	" Temp. 39
"	Wick	18h. Cloud form (high) A.St
"	Gorleston	" " " (low) St.Cu.
"	Clacton	" Bar 1030·9.
"	Portland Bill	" Bar. change ?
"	Dungeness	" Cloud form (low) Cu.
"	Birmingham	7h. Bar. 1032·8.
"	Tiree	Weather 18h-1h. o
"	Renfrew	" 1h-7h. bffx
"	Birmingham	" 18h-1h o
"	Leafield	Max. 34
"	Blacksod	Min. 34
"	Gorleston	Rain (night) Trace
5th	Wick	13h. Temp. 37
"	Leuchars	" Humidity 75%
"	Holyhead	" Wind force 4
"	Falmouth	" Humidity 85%
"	"	Visibility 8
"	Southampton	18h. Bar. 1027·0
"	"	" " change 0
"	Bognor	Rain (night) Trace
6th	Leafield	13h. Wind E'N.
"	Dungeness	" " force 3
"	Leuchars	18h. Weather c+
"	Birr Castle	" " cd.
"	Cranwell	" Temp. 33
"	Guernsey	" Weather c
"	Stornoway	1h. " b-
"	Wick	" Bar. 1028·2
"	Tynemouth	" " 1025·1
"	Wick	7h. Weather c/pr.
"	"	" Cloud form (high) Ci.St.

Report for	STATION.	CORRECTION.
6th	Tynemouth	7h. Temp 40
"	Nairn	" " 25
"	Birr Castle	" Weather od.
"	Roches Pt.	" Bar. 1016·5
"	Nairn	Sun. 0·7
"	Roches Pt.	Weather 7h-13h. cg
"	Leafield	Rain (night) Trace
"	Winchester	" (day) Trace
"	Folkestowe	" (night) began 1·30
7th	Malin Hd	13h. Weather cjp
"	Blacksod Pt.	" Temp 37
"	Gorleston	" " 35
"	S. Farnboro'	" " 30
"	Folkestowe	" Humidity 75%
"	Dungeness	" Wind E.
"	Guernsey	" Humidity 85%
"	Roches Pt.	18h. Sea 4
"	Holyhead	1h. Cloud amount (low) 9
"	Wick	7h. Weather or.
"	S. Farnboro'	" Humidity 92%
"	Croydon	" Temp. 30
"	Roches Pt.	Weather 13h-18h. oss
"	"	Min. 33
"	"	Rain (day) 20
"	Leafield	Weather 7h-13h. os.s.o
"	S. Farnboro'	Max. 30
"	Clacton	" 35
"	Greenwich	Weather (morning) cs.s.
"	"	" (afternoon) os.is.
"	"	" (night) ois.of
8th	Valentia	13h. Visibility 8
"	Leafield	" Temp. 31
"	"	" Cloud height 800
"	Lerwick	18h. Bar change -1
"	Edinburgh	" Weather mmo
"	Liverpool	" " mo
"	"	" Visibility 4
"	S. Farnboro'	" Weather mc
"	Southampton	" Wind NE'N
"	Stornoway	1h. Bar. 1036·3
"	Holyhead	" " change +4
"	Gorleston	" Humidity 92%
"	Portland Bill	" Wind force 3
"	Blacksod Pt.	7h Temp. 43
"	Dungeness	7h. Humidity 85%
"	Malin Hd.	Weather 1h-7h. cz.z.
"	Holyhead	" 7h-13h. ocz.
"	Chester	" 13h-18h. os.s.inf
"	London	Grass min. 29
"	Dungeness	Min. 29
"	Rhyl	Weather forenoon op
"	"	" afternoon o
"	Southport	Rain (day) Trace
9th	Portland Bill	13h. Wind force 3
"	Dungeness	" " " 2
"	Wick	18h. Cloud form (high) A.St.
"	Blacksod Pt.	" Temp 45
"	Clacton	" Bar. 1042·4
"	Tynemouth	1h. Weather ffbc
"	Holyhead	" Bar. change -2
"	Valentia	" Cloud height 800'
"	London	" Temp. 33
"	Leuchars	7h. Bar. 1038·6
"	Holyhead	" " 1038·3
"	Dungeness	" Cloud height 800
"	Tiree	Weather 7h-13h. o
"	Edinburgh	" 13h-18h. m.m.o
"	Clacton	Max. 37
"	Dungeness	Min. 31
"	Croydon	Rain (day) Trace (page 1)
10th	Holyhead	13h. Visibility 5
"	Falmouth	" Wind S'E
"	Malin Hd.	18h. Bar. 1025·9
"	Liverpool	" Cloud form (low) Nb.
"	Pembroke	" Cloud height 2500'
"	Ross	" Bar change -2
"	Malin Hd.	1h. Weather mimb.
"	" "	" Cloud nil.
"	Wick	7h. Temp. 43
"	Blacksod Pt.	" " 48
"	Leuchars	Weather 18h-1h. or.m.rom.
"	Blacksod Pt.	Rain (day) 3

Report for	STATION.	CORRECTION.
10th	Holyhead	Weather 1h-7h. om.d.d.
"	Roches Pt.	" 1h-7h. cirbc
"	Pembroke	" 1h-7h. oddiFfbc
"	Leafield	" 18h-1h. offis
"	"	" 1h-7h. osrsm
"	Portland Bill	" 13h-18h. omoz.
"	Ross	Rain (night) began <21·00
11th	Tiree	13h. Wind force 2
"	Blacksod Pt.	" Temp. 48.
"	London	" Bar. 1031·8
"	Falmouth	" " 1030·3
"	Wick	18h. Weather c/prs.
"	London	" Wind force 2
"	Falmouth	1h. Humidity 97%.
"	Southampton	Max. 43
"	Portland Bill	Rain (night) Trace
"	Bude	Weather (forenoon) cocd.
12th	Blacksod Pt.	13h. Temp. 43
"	Birr Castle	" Wind force 1
"	Holyhead	" Humidity 75%
"	Blacksod Pt.	18h. Temp. 41
"	Liverpool	" Delete Sea 3
"	Stornoway	1h. Weather b-
"	Dungeness	" Bar 1035·7
"	Valentia	7h. " 1037·1
"	Edinburgh	Weather 1h-7h ocbc
"	Chester	" 1h-7h. bcez.
"	Lympne	" 13h-18h. os.m.
"	Littlehampton	Max. 35
13th	Eskdalemuir	13h. Wind N'E.
"	Lerwick	18h Bar. 1039·2
"	"	" Wind W.
"	Lympne	Sun. 2·6
"	Edinburgh	18h. Visibility 7
14th	Wick	13h. Cloud amount (low) 8
"	Harrogate	" Bar. change -3
"	Wick	7h. Wind force 3
"	Lerwick	Max. 41
"	Tiree	" 45
"	Roches Pt.	" 41
"	Ross	Weather 18h-1h. gomr.
"	"	" 1h-7h. fomcm
"	"	Rain (night) began 24·00.
"	Leafield	Weather 7h-13h. cs.fF
"	"	" 13h-18h. fm
15th	Stornoway	13h. Bar. 1036·5
"	Plymouth	" Cloud amount 9
"	Wick	1h. Wind force 4
"	Falmouth	" Bar. 1029·2
"	Wick	7h. Weather bc/prs
"	Liverpool	" Humidity 92%.
"	Edinburgh	Rain (day) nil.
"	Holyhead	Weather 7h-13h d.cbc
"	S. Farnboro'	" 18h-1h. bcbom.
16th	Lerwick	13h. Temp 32.
"	Edinburgh	" Bar. 1013·2
"	Guernsey	" " 1018·2
"	Donaghadee	18h. Sea 5
"	Eskdalemuir	7h. Temp. 27
"	Spurn Hd.	" Weather bc-
"	Folkestowe	" Bar change +4
"	Lerwick	Max. 38.
"	Leuchars	Weather 7h-13h. p.bojp
"	London	Rain (night) began 24·00.
"	Clacton	" " 2·30.
"	Westminster	Rain (24h.) 1
"	"	Humidity 9h. 68%
17th	Birmingham	13h. Temp. 33
"	Tiree	18h. Sea 1
"	Dungeness	" Humidity 65%
"	Wick	1h. Weather o/ps
"	Guernsey	" Bar. 1022·0
"	Tiree	7h. Weather c
"	"	Sun. 4·5
"	Leuchars	Weather 7h-13h. bbcb
"	Chester	" 13h-18h. bz.x
"	Winchester	Rain (day) Trace
"	Plymouth	Weather 7h-13h. bboxm.
18th	Liverpool	13h. Cloud (low) nil
"	"	" (high) Ci.St. 9
"	Tiree	18h. Sea 1
"	Nairn	" Temp. 27

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, January 1929.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
18th	Tynemouth	18h. Weather ffbc
"	Donaghadee	" " cr.
"	Scilly	" " bc
"	"	" Cloud St.Cu.5 (total 5)
"	Spurn Hd.	1h. Weather mmbc
"	Lympne	" Humidity 92%
"	Liverpool	7h. Wind SW'S
"	Gorleston	" Cloud form A.Cu.
"	"	Weather 1h-7h. bm,cx
"	Leafield	" 1h-7h. osc
"	"	Rain (night) 1mm.
"	Clacton	Sun 1·6hrs.
19th	Lerwick	13h. Wind force 3
"	Holyhead	" Visibility 5
"	Tiree	18h. Cloud form Nb.
"	Nairn	" " height 2500'
"	Malin Hd.	" " amount(low)6
"	Blacksod Pt.	" Temp. 50°
"	Malin Hd.	7h. Bar. 1013·9 mb.
"	" "	" Sea 2
"	Blacksod Pt.	" Temp. 50°
"	Leafield	" Wind force 3
"	"	" Visibility 7
"	Lerwick	Min. 36°
"	Holyhead	Weather 7h-13h. rd,o
"	Harrogate	Max. 41°
"	Gorleston	Rain(day) began 9·00
"	Valentia	Min. 43°. Grass min. 46°
"	Roches Pt.	Max. 49°
"	Pembroke	Weather 7h-13h. bcr.
"	Dungeness	Min. 37°
"	Greenwich	Min 35° (page 1)
20th	Liverpool	19h. Wind SSW.
"	Clacton	" " SW.
"	Dungeness	" " WSW.
"	Malin Hd.	7h. Bar. 1013·1 mb.
"	Holyhead	Weather 7h-13h. rd,o
21st	Tiree	13h. Humidity 92%
"	Malin Hd.	" Cloud form (high) Ci.Cu
"	Leafield	" Cloud amount (total) 1
"	Plymouth	" Ground 1
"	Tynemouth	18h. Weather ffbc
"	Gorleston	" Wind force 4
"	Edinburgh	1h. " N
"	"	7h. Humidity 97%
"	Leuchars	" " 92%
"	Donaghadee	" " 92%
"	Gorleston	" Wind SW'S.
"	Clacton	" Humidity 92%
"	Eskdalemuir	Grass min. 27°
"	Ross	Sun 3·9 hrs.
"	Felixstowe	" 7·7 "
22nd	Pembroke	13h. Cloud height 1500'
"	Liverpool	18h. Humidity 97%
"	Pembroke	" Cloud height 450'
"	Spurn	" Weather od.
"	Winchester	" Bar. change +1.
"	Guernsey	" Wind S'E.
"	Stornoway	Max. 46°
"	Holyhead	Weather 18h-1h. bbcbmfwx
"	Chester	" 18h-1h. oFF
"	"	" 1h-7h. offc
"	"	Max. 35°
"	Winchester	Weather 18h-1h. odd,mff
"	Margate	Min. 34°
23rd	Spurn Hd.	13h. Cloud height <150'
"	Gorleston	" Temp. 39°
"	Ross	" " 37°
"	Tiree	18h. Wind S.E.
"	Holyhead	" Weather mb.
"	Gorleston	1h. Humidity 92%
"	Dungeness	" Weather c/m.
"	Tiree	7h. Humidity 92%
"	Edinburgh	" Bar change +2
"	Eskdalemuir	" " 1028·3 mb.
"	Holyhead	" Humidity 92%
"	S.Farnboro'	" Bar. 1024·2 mb.
"	Guernsey	" Temp. 44°
"	Holyhead	Weather 1h-7h. bmmm,w
"	Valentia	" 1h-7h. c
"	Ross	Max. 37°
"	Plymouth	Weather 13h-18h. omd,r.
24th	Blacksod Pt.	13h. Temp. 43°
"	Portland Bill	7h. Weather mmo
"	Edinburgh	Rain(day) 0·1mm.
"	Penzance	Max. 45°
25th	Blacksod Pt.	13h. Temp. 42°
"	Liverpool	" Wind force 4
"	Cranwell	" Cloud amount 2
"	Spurn Hd.	7h. Temp. 35°
"	Stornoway	Sun 4·0 hrs.
"	Tiree	Max. 41°
"	Nairn	Sun 2·2 hrs.
"	Skegness	Weather forenoon bxps
"	"	afternoon bprs.
"	Regent's Pk.	Sun 0·3 hr. (page 1)
26th	Stornoway	18h. Weather bc
"	"	" Cloud Cu Nb. 3. A.St. 1.
"	"	" " (total 4)
"	Malin Hd.	" Weather bojp.
"	Pembroke	" Wind force 2
"	Scilly	" Wind NNE.
"	Guernsey	" Humidity 85%
"	Wick	1h. Wind NNW.
"	Tiree	7h. Cloud total 7
"	Birr Castle	" Temp. 34°
"	London	" Bar. 1018·1 mb.
"	Guernsey	" Cloud amount 7
"	Cranwell	Weather 18h-1h. cbcpsm
"	Lympne	Grass min. 26°
"	"	Rain (day) 0·4mm.
27th	Blacksod Pt.	13h. Temp. 44°
"	Holyhead	" Cloud amount (total) 4
"	Lympne	" Visibility 5
"	"	" Cloud height 1500'
"	"	" Ground 7
"	Roches Pt.	7h. Visibility 2
"	Southampton	" Sea 0
"	Dungeness	" Humidity 92%
"	Edinburgh	Min. 32°.
"	Shoeburyness	Max. 37°
"	Plymouth	Sun 5·2 hrs.
"	Dungeness	Max. 39°
28th	Leuchars	13h. Ground 4
"	Liverpool	" Weather c
"	"	" Cloud amount (total) 9
"	S.Farnboro'	" Ground 6
"	Donaghadee	18h. Cloud amount (total) 5
"	Spurn Hd.	" Bar. 1018·0 mb.
"	" "	" Wind S.W.'S.
28th	Birr Castle	18h. Temp. 38°
"	Valentia	" Bar. 1020·0 mb.
"	Shoeburyness	" " 1020·3 "
"	"	" Wind S.W.
"	Clacton	" " force 3
"	Gorleston	1h. Cloud form A.Cu.
"	London	" Temp. 33°
"	Blacksod Pt.	7h. Humidity 75%
"	Lerwick	Rain (night) 2mm.
"	Nairn	Weather 7h-13h. cprsbc
"	"	" 1h-7h. x'b.
"	Malin Hd.	Max. 42°
"	Cranwell	Min. 31°
"	Ross	Sun 0·8hr.
"	London	Weather 1h-7h. oFk.
"	Guernsey	Max. 42°.
"	Kew	Weather (night) bcofk
"	"	Visibility 9h. 2 (page 1)
29th	Spurn Hd.	13h. Cloud form (low) St.
"	Plymouth	" " " (high) A.St.
"	Dungeness	" " height <150'
"	Holyhead	18h. Weather or,r.
"	Wick	7h. Wind S.
"	Tiree	" Cloud form Cu.Nb.
"	Eskdalemuir	Sun 1·6hrs.
"	Birr Castle	Grass min. 38°.
"	Pembroke	Min. 41°
"	Dungeness	" 35°
"	Harwich	Rain(day) Trace
"	Worthing	" " 6mm.
30th	Stornoway	13h. Weather bc-
"	Tiree	" Wind force 3
"	Valentia	" Cloud form St.
"	Lerwick	18h. Weather o/r
"	Renfrew	" odd
"	"	" Visibility 4
"	Wick	1h. Wind S force 4
"	Liverpool	7h " SW
"	Holyhead	" Sea 3.
"	Leuchars	Weather 1h-7h. orf,r,rf
"	Eskdalemuir	" 1h-7h. orm,rf
"	Holyhead	" 7h-13h. dd,bfb
"	"	" 18h-1h. Rrrm.
"	Chester	" 18h-1h. cm,rr
"	Valentia	" 18h-1h. or,r,o
31st	Eskdalemuir	13h. Ground 2.
"	Holyhead	" Visibility 7
"	S.Farnboro'	" Bar. change -1
"	Dungeness	" Visibility 7
"	Guernsey	18h. Cloud height 1500'
"	Pembroke	1h. Bar. 1012·7 mb.
"	Portland Bill	" Cloud form Nb.
"	Tiree	7h. Humidity 97%
"	Shoeburyness	" Bar. change -1
"	Eskdalemuir	Weather 7h-13h. oirofco
"	Harrogate	Max. 56°
"	Guernsey	Rain (night) began 5·30.
"	Cleethorpes	Max. 52°
"	Cheltenham	Sun rise to set 30th. 1·6hrs.
21st	Kew Observatory	Pollution Min. 0·1 at 14h.20m.

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.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sun. 0-9	Weather. 7h.-13h.	Weather. 13h.-19h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall. Day. 7h.-18h.	Rainfall. Night. 18h.-7h.	Rainfall. Precipitation began.	Sun Hours
1st	Portland Bill 1h.	1013·9	+4	NNE	6	bc-	37	85	8	4000	St.Cu.	4	-	4	-			cbc								
9th	Tiree 13h.	1037·7	0	S	4	o+	41	75	7	1500	St.	10	-	10	-	0	Ground 0							-	-	
12th	Dungeness 7h.	1036·3	?	ENE	4	o	31	92	6	800	St.	10	-	10	4				0	36	28					
19th	Pembroke 13h.	1018·8	+2	SW	2	or,	48	97	6	800	Nb.	10	-	10	-	bcr,										
27th	Renfrew 18h.	1021·1	-1	N.W.	1	o	33	92	5	-	-	0	Ci.St.	9												
"	Chester "	1022·6	+1	NW'N	2	bc+	32	85	5	4000	St.Cu	2	A.St.	7												

London observations and Health Resorts additions see Page 4.