M.O. FORM 2373

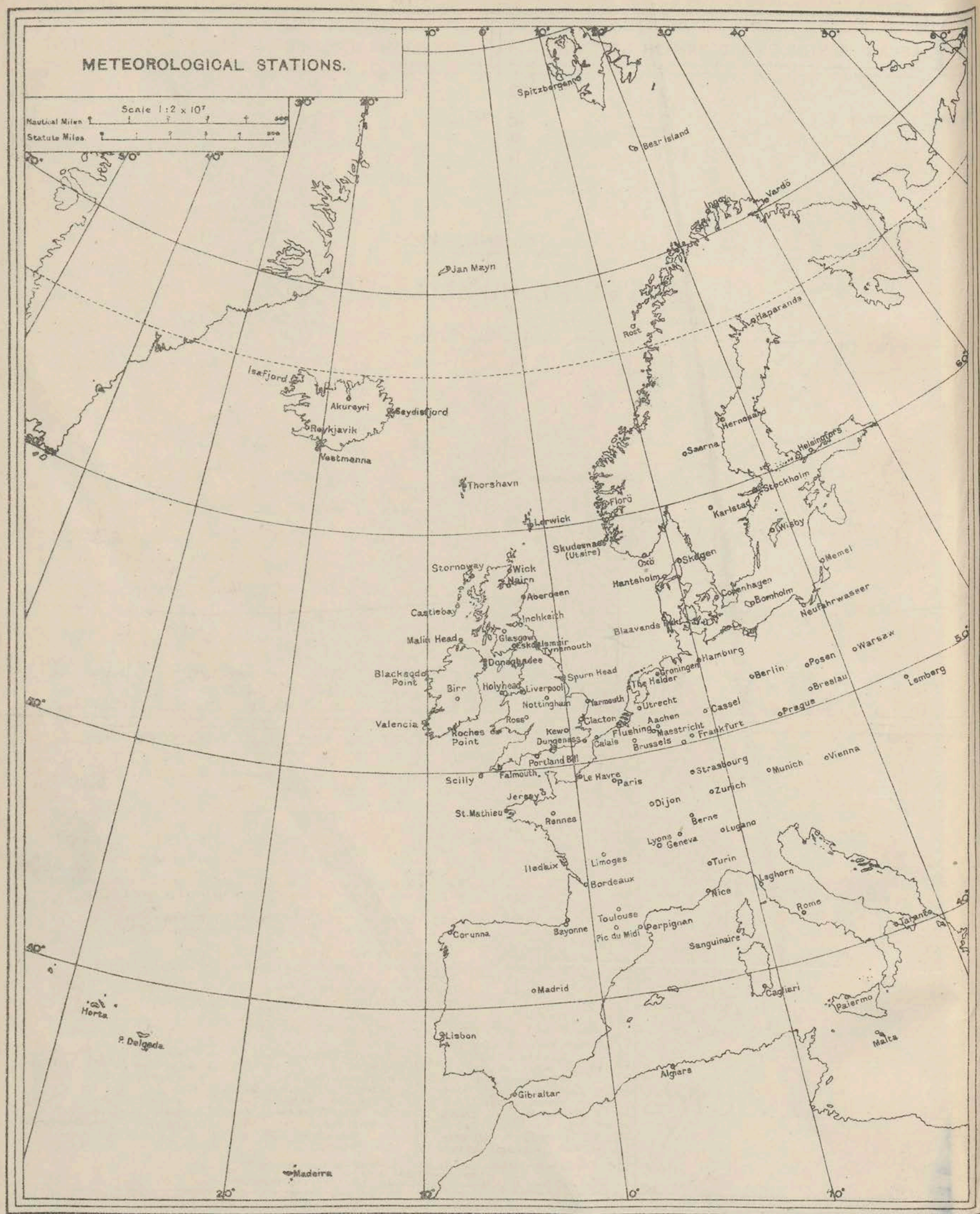
AIR MINISTRY.

METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

1ST. OCTOBER TO 31ST. DECEMBER, 1922.



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

P.S. 2071/649. Wt. 7487. D. 7361/pr. 1081. 750. 1/23.

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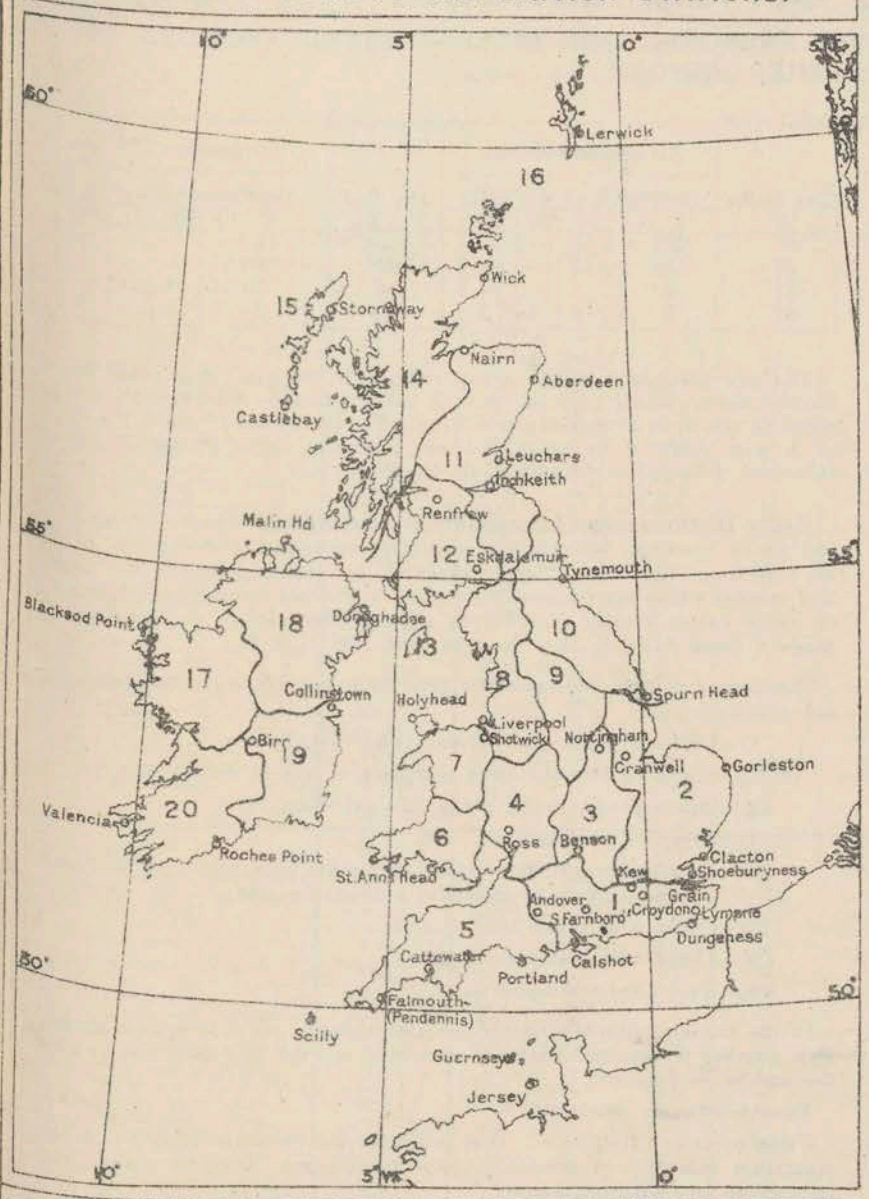
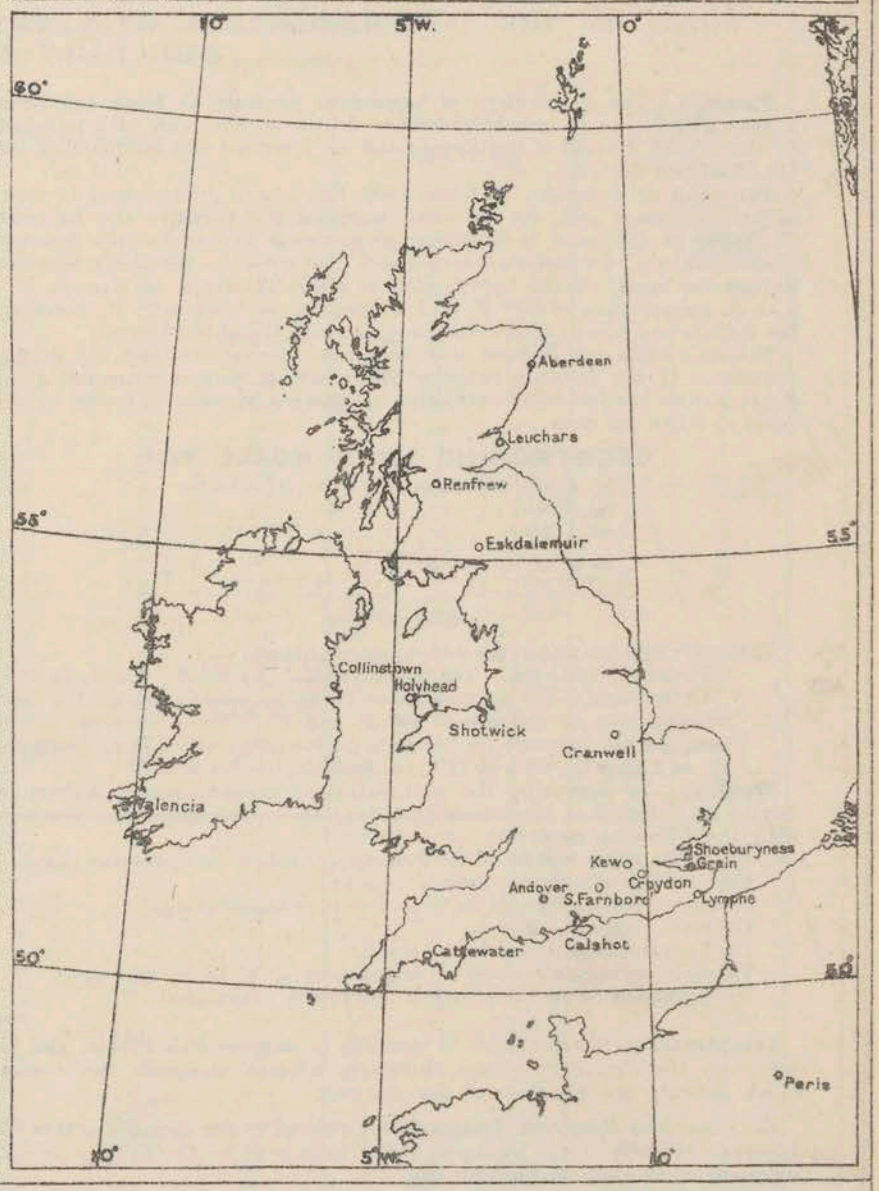
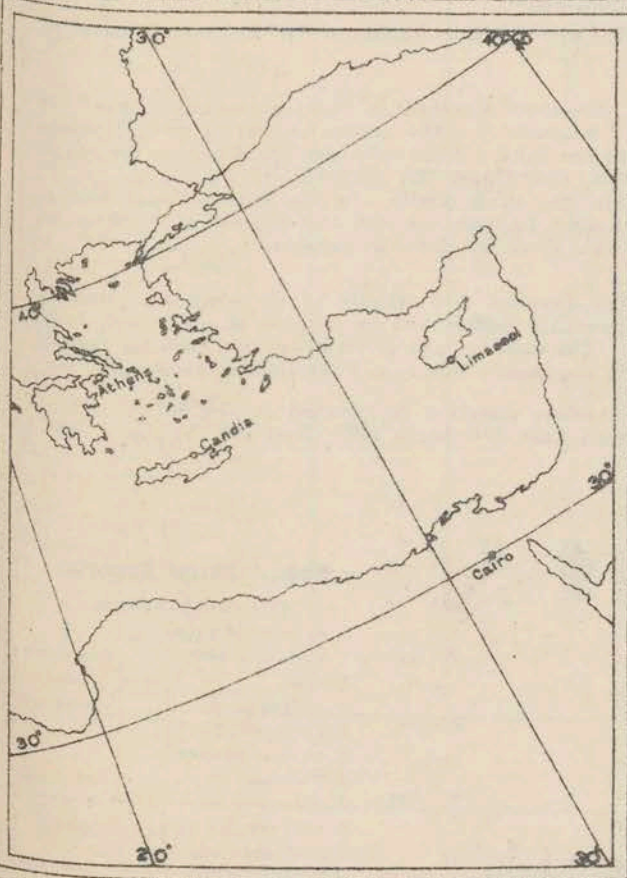
FORECAST DISTRICTS AND BRITISH STATIONS.



STATIONS USED FOR UPPER AIR SUPPLEMENT.





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 rises 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 wind	Raises dust and loose paper ; small branches are moved ..	13-18
5	Fresh wind ..	Small trees in leaf begin to sway ; crested wavelets on inland waters	19-24
6	Strong wind ..	Large branches in motion ; whistling heard in telegraph wires	25-31
7	High wind ..	Whole trees in motion ; inconvenience felt when walking against wind	32-38
8	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	.. .. ..	Very rarely experienced ; accompanied by widespread damage	64-75
12	Hurricane ..	.. ..	Above 75

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
o overcast sky. d drizzle.
f fog. h hail.
KQ line squall. l lightning.
m mist. p passing showers.

BEAUFORT NOTATION.

q squalls. r rain.
rs sleet, *i.e.*, rain and snow.
s snow. t thunder.
v unusual visibility.
w dew. x hoar frost.
y dry air ; humidity less than 60 per cent.
z dust haze ; the turbid atmosphere of dry weather.

WEATHER SYMBOLS.

Clear sky ○ Sky ½ clouded ◐
Sky ¼ clouded ◔ Sky ¾ clouded ◕
Overcast sky ● Rain falling ●
Snow ✳ Sleet ✳
Fog ≡ Hail ▲
Thunder ⊤ Mist ≡°
Lightning ↯ Thunderstorm ⊤↯

Capital letters indicate intensity, suffix $_o$ indicates slight, and repetition of letters continuity, thus :–
R=heavy rain. rr=continuous moderate rain. r_or_o=continuous slight rain.

AIR MINISTRY.

METEOROLOGICAL OFFICE, LONDON.

NOTES ON THE INFORMATION CONTAINED IN THE BRITISH AND INTERNATIONAL SECTIONS OF THE DAILY WEATHER REPORT.

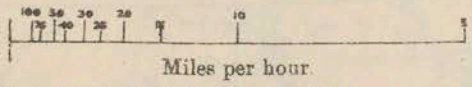
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section.

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 (160 miles) 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, 283° A = 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°.

Weather.—In describing the distribution of weather over a district or during an interval of time such as a day, descriptive adjectives are used with the following meanings:—

Fine—mainly b and bc of the Beaufort notation (*see* previous page).
Fair or fair generally—mainly bc and c.
Cloudy—combinations of bc, c and o, c predominating.
Overcast—mainly c and o.
Dull—overcast with low heavy cloud.
Varying or variable cloud—combinations of b, bc, c, and o.
Precipitation when occurring is specifically mentioned.

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.

Maximum and Minimum Temperatures entered in the British Section for Liverpool (Bidston) since 1st. April, 1921, have been for the 22 hour period commencing at 9 am. the previous day.

Upper Air Temperature.—The actual 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 lines marked "Anti-cyclonic," "Cyclonic," "Summer," and "Winter," indicate the normal fall of temperature with pressure under the conditions indicated. The oblique line marked "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 10a per kilometre. A lapse rate greater than this value indicates instability of the atmosphere.

The new tables for computing relative humidity from readings of dry and wet bulb thermometers exposed on aeroplanes, are based on the formula* $e'' = e' - A\ (t-t')\ \frac{B}{1000}$ where A = 0.37, which differs from the old formula used previously to the 19th September, 1921, only in having a constant 0·37 instead of 0·278. Considerable difference exists between the values for relative humidity given by the two formulæ when the humidity is low: when it is high the differences are slight. The following tables indicate the actual value of these differences, the new formula invariably giving smaller humidities:—

Dry Bulb. °F.	Air pressure 400 mb. Depression of wet bulb. 5°	10°	15°	20°	25°	Dry Bulb. °F.	Air pressure 600 mb. Depression of wet bulb 5°	10°	15°	20°	25°
20	6	10	—	—	—	20	7	15	—	—	—
40	2	4	6	9	—	40	3	6	10	—	—
60	1	2	3	4	5	60	2	3	4	7	7
80	0	1	1	2	2	80	0	2	2	3	4

Dry Bulb. °F.	Air pressure 800 mb. Depression of wet bulb. 5°	10°	15°	20°	25°	Dry Bulb. °F.	Air pressure 1000 mb. Depression of wet bulb. 5°	10°	15°	20°	25°
20	10	—	—	—	—	20	12	—	—	—	—
40	4	9	13	—	—	40	6	11	—	—	—
60	2	4	7	—	—	60	3	6	8	11	—
80	2	2	4	4	5	80	2	3	4	6	6

* e″ = actual pressure of water vapour in the air expressed in the same unit as B
e′ = saturation pressure of water vapour at wet bulb temperature.
t = dry bulb temperature in degrees F.
t′ = wet bulb temperature in degrees F.
B = barometric pressure.

The new formula is based on experiments in the wind channel at South Farnborough, which indicate that A is practically independent of the speed of the wind at speeds above 20 m.p.h. In the old formula, the value of A was obtained by extra-polation from the curve giving its actual values at different wind speeds up to 12 m.p.h.

Radio Disturbances (Atmospherics) at Croydon.—In the table under the above heading, information is given concerning atmospherics heard at Croydon. The term "atmospherics" is used to denote the clicks and crashes which are commonly heard in a wireless receiver, the intensity of which varies greatly at different times. Observations at Croydon are made 4 times daily at 1h., 7h., 13h. and 18h. G.M.T.

The second column indicates the type of sound heard, by the following abbreviations:—

C—Uniform clicks and normal quiet distribution.
C_1C_2—Clicks of two obviously different orders of intensity.
Cg—Clicks predominant but a few grinders.
G—Grinders predominant.
GG—Continuous grinders whose minimum direction can be found by estimation of intensity without counting.
Ck—Clicks with a few loud crashes.
CK—Clicks with numerous crashes.
KK—Very loud atmospherics.

In the third column the number of atmospherics per 4 seconds is shown. This number is obtained with the receiving coil set in a direction to give the maximum number.

Fourth column. Strength.

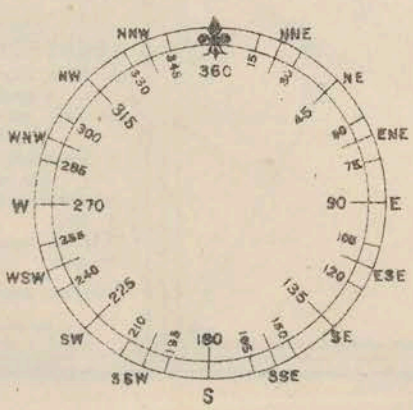
Fifth column. Direction. This indicates the direction from which the maximum intensity of atmospherics is proceeding. Directions are given in degrees (*see* diagram below).

It is to be noted that there is an ambiguity of 180° in the determination of direction.

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 1,000 feet, 3,000 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.

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.)



Note.—Ships' Reports.

SEA DISTURBANCE.

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 "
7. Heavy "
8. Long low "
9. Confused "
} and { Sea rough or above.

DAILY WEATHER REPORT. APPENDIX I.

NORMAL VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE.

FOURTH QUARTER, OCTOBER TO DECEMBER.

(Issued as a Supplement to the Daily Weather Report of October 1st.)

	STATIONS.	PRESSURE 1906–1915. 7 a.m. Observations (reduced to M.S. Level).	AIR TEMPERATURE. Means of 1906–1915. Dry Bulb 7 a.m.	Means of 1881–1915. Daily Maximum.	Means of 1881–1915. Daily Minimum.	Absolute Extremes. 1881–1915. Maximum. Temp.	Maximum. Year.	Minimum. Temp.	Minimum. Year.	RAINFALL 1881–1915. Days with Rain.	Total Fall.		BRIGHT SUNSHINE. 1881–1915. Daily Mean.	Per Centage of Possible Duration.
		mb.	°F.	°F.	°F.	°F.		°F.			mm.	in.	hr.	%
OCTOBER.	Lerwick	1011·2	47·3	50·1	42·3	63	1908	28	1887	24	100	3·95	—	—
	Stornoway	1010·0	47·1	52·2	41·2	70	1898	27	1892	23	132	5·18	2·77	28
	Castlebay (Barra Isd.)	[1011·6]§	[50·5]§	[53·6]§	[47·7]§	[63]§	[1908]§	[34]§	[1909, 1913]§	[20]§	[86]§	[3·39]§	[2·55]§	[25]§
	Eskdalemuir	[1014·4]¶	[42·4]¶	[51·5]‖	[38·5]‖	[65]‖	[1910]‖	[19]‖	[1911]‖	[15]‖	[100]‖	[3·93]‖	[2·39]‖	[23]‖
	Malin Head	1009·3	49·3	[53·2]*	[45·6]*	[73]*	[1908]*	[32]*	[1892]*	[20]*	[75]*	[2·95]*	—	—
	Blacksod Point	1009·4	51·0	[54·7]*	[46·0]*	[71]*	[1908]*	[29]*	[1905]*	[23]*	[127]*	[4·99]*	—	—
	Valencia	1010·2	51·2	56·4	46·6	71	1908	28	1892	22	142	5·57	3·26	31
	Roche's Point	1011·2	51·0	56·2	46·4	65	1884, 86, 1914, 15	32	1881	19	104	4·09	—	—
	Birr Castle	1010·7	46·8	55·0	40·7	74	1908	22	1905	18	74	2·91	3·16	30
	Donaghadee	1011·3	49·2	54·3	44·3	66	1898	21	1892	18	73	2·88	—	—
	Liverpool (Observatory)	1012·5	47·9	54·1	44·8	73	1908	27	1895	18	83	3·27	[2·81]§	[27]§
	Holyhead	1011·5	51·3	55·1	46·9	75	1908	32	1892	19	101	3·99	[2·87]**	[28]**
	Pembroke (St. Ann's Hd.)	1011·4	51·6	55·6	48·1	67	1908	33	1895	19	106	4·19	3·29	31
	Scilly (St. Mary's)	1011·3	53·2	57·5	50·1	69	1895	38	1895, 1896	21	93	3·66	3·81	36
	Falmouth	1012·5	51·0	56·3	47·7	67	1895	33	1895	21	126	4·96	3·74	35
	Jersey (St. Aubin's)	1013·3	53·4	59·0	49·1	76	1908	33	1887	20	116	4·55	4·06	38
	Portland Bill	1012·2	53·8	56·9	48·8	[67]†	[1908]†	[35]†	[1905, 1908]†	17	94	3·68	—	—
	Dungeness	1013·2	52·1	57·4	46·0	70	1886, 1908	23	1890	17	89	3·52	—	—
	Dover	[1015·5]§	[50·7]§	[57·5]§	[46·6]§	[74]§	[1908]§	[30]§	[1909]§	[18]§	[106]§	[4·18]§	[3·81]§	[36]§
	Wick	1011·0	47·0	52·2	41·0	73	1898	22	1885	21	75	2·96	—	—
	Nairn	1010·9	44·2	53·1	39·0	76	1908	19	1896	19	60	2·35	[3·29]‡	[33]‡
	Aberdeen	1012·2	46·6	52·8	41·7	74	1883	25	1880	20	76	3·00	3·06	30
	Leith	1011·9	47·7	54·8	42·1	75	1908	25	1894	17	61	2·41	—	—
	Tynemouth	1012·6	47·9	54·1	42·4	77	1908	27	1890, 92, 95, 1909	17	76	3·01	—	—
	Spurn Head	1012·8	50·7	54·6	45·9	70	1900	33	1887, 1895	17	61	2·40	[2·68]**	[26]**
	Yarmouth	1013·6	50·6	55·2	45·3	74	1900, 1908	27	1895	18	74	2·93	[3·35]§	[32]§
	Clacton-on-Sea	1013·7	51·0	55·7	45·7	[71]‡	[1908]‡	[29]‡	[1905]‡	14	49	1·91	3·61	35
	Nottingham	1013·3	46·6	55·3	41·7	78	1908	20	1890	19	63	2·49	2·68	26
	LONDON (Kew Obsy.)	1013·9	48·5	56·2	43·5	77	1886	25	1881, 1895	17	69	2·70	2·97	28
NOVEMBER.	Lerwick	1005·3	42·3	46·2	38·9	58	1901	24	1912	25	108	4·25	—	—
	Stornoway	1007·2	42·1	47·6	38·0	58	1897, 1901, 02	21	1912	24	148	5·83	1·43	19
	Castlebay (Barra Isd.)	[1007·8]§	[45·4	[48·5]§	41·6]§	56]§	1914]§	[28]§	1912]§	[24]§	[101]§	[3·96]§	[1·57]§	[20]§
	Eskdalemuir	[1009·4]¶	[37·6]¶	[43·2]‖	32·1]‖	54]‖	1914]‖	[6]‖	[1912]‖	[20]‖	154]‖	[6·05]‖	2·03]‖	[25]‖
	Malin Head	1008·4	44·6	[48·6]*	41·7]*	59]*	[1894, 99, 1906]*	[30]*	[1909, 1912]*	[21]*	[83]*	[3·28]*	—	—
	Blacksod Point	1010·3	46·1	[50·2]*	42·0]*	60]*	[1897, 1899]*	[26]*	[1890]*	[24]*	[132]*	[5·21]*	—	—
	Valencia	1012·4	46·3	52·0	42·9	63	1881	27	1890, 96, 1901	23	139	5·46	2·17	25
	Roche's Point	1013·0	45·5	51·4	42·5	61	1908, 1909	27	1890	19	107	4·20	—	—
	Birr Castle	1011·8	40·6	49·3	36·8	64	1912	17	1909	19	79	3·10	2·13	25
	Donaghadee	1010·4	43·7	49·4	40·1	60	1894, 1909	27	1883	19	77	3·04	—	—
	Liverpool (Observatory)	1011·6	42·5	48·5	40·2	61	1894, 95, 99	25	1901, 05, 15	18	64	2·50	[2·27]§	[27]§
	Holyhead	1011·3	46·3	50·2	42·9	62	1881	29	1915	19	105	4·14	[2·50]**	[30]**
	Pembroke (St. Ann's Hd.)	1012·2	46·7	51·1	43·9	60	1911	28	1890	20	97	3·80	2·17	25
	Scilly (St. Mary's)	1013·2	48·7	53·2	46·3	61	1898	29	1890	20	83	3·27	2·50	28
	Falmouth	1013·9	46·1	51·6	43·9	60	1895, 1897	23	1890	20	122	4·80	2·53	29
	Jersey (St. Aubin's)	1014·2	47·9	53·0	44·3	66	1899	16	1890	21	104	4·08	2·53	28
	Portland Bill	1012·7	47·7	51·7	44·3	[61]†	[1900]†	[29]†	[1912]†	14	66	2·58	—	—
	Dungeness	1012·2	44·4	50·7	40·7	63	1899	17	1890	16	70	2·75	—	—
	Dover	[1012·9]§	42· §	[48·9]	[38·6]§	[60]§	[1914]§	[25]§	[1911]§	[16]§	[78]§	[3·07]§	[2·90]§	[33]§
	Wick	1006·6	41·5	46·9	37·0	62	1900	12	1909	20	80	3·14	—	—
	Nairn	1007·5	39·8	46·9	35·4	62	1906	12	1904	19	60	2·36	[1·70]‡	[22]‡
	Aberdeen	1008·3	40·7	46·8	37·4	62	1883	14	1909	19	75	2·95	1·83	23
	Leith	1009·0	42·0	48·5	38·0	63	1885	18	1885	15	50	1·95	—	—
	Tynemouth	1009·9	41·8	48·4	38·1	62	1894	20	1912	16	54	2·13	—	—
	Spurn Head	1010·4	43·8	48·2	40·8	61	1894, 1895	28	1884	16	47	1·85	[1·90]**	[23]**
	Yarmouth	1011·6	43·3	48·5	39·6	60	1895, 98, 99, 1904	23	1890	18	61	2·41	[2·33]§	[27]§
	Clacton-on-Sea	1012·4	43·0	48·5	39·7	[60]‡	[1908]‡	[25]‡	1904]‡	15	47	1·86	2·33	27
	Nottingham	1011·9	40·7	48·4	37·1	63	1895	13	1904	19	48	1·88	1·37	16
	LONDON (Kew Obsy.)	1013·2	41·9	49·1	38·8	52	1881, 94, 95	21	1901	16	56	2·22	1·73	20
DECEMBER.	Lerwick	1000·9	40·4	43·6	36·6	53	1890, 1905	19	1909	27	122	4·79	—	—
	Stornoway	1000·9	40·3	44·4	35·4	55	1898, 1913	16	1912	26	159	6·25	0·74	12
	Castlebay (Barra Isd.)	[1000·5]§	[44·1]§	[46·9]§	[40·1]§	[54]§	[1912]§	[26]§	[1912]§	[26]§	[146]§	[5·74]§	[0·77]§	[12]§
	Eskdalemuir	[1003·9]¶	[36·7]¶	[42·1]‖	[33·0]‖	[52]‖	[1910, 12]‖	[8]‖	[1912]‖	[26]‖	[204]‖	[8·04]‖	[0·74]‖	[11]‖
	Malin Head	1001·6	42·3	[45·7]*	[38·6]*	[55]*	[1900, 04, 13]*	[28]*	[1906, 1909]*	[24]*	[85]*	[3·35]*	—	—
	Blacksod Point	1003·0	44·4	[47·5]*	[39·9]*	[59]*	[1899]*	[25]*	[1906]*	[26]*	[155]*	[6·12]*	—	—
	Valencia	1005·8	45·4	49·8	41·1	57	1884, 88, 99, 1900	24	1886	26	169	6·64	1·32	17
	Roche's Point	1006·9	44·5	48·8	40·4	57	1906	25	1882	23	135	5·32	—	—
	Birr Castle	1005·2	40·5	46·1	35·0	58	1900	10	1882	21	84	3·29	1·39	19
	Donaghadee	1004·4	41·8	45·9	37·2	56	1885, 88, 94, 1909, 12, 13	21	1909	21	81	3·17	—	—
	Liverpool (Observatory)	1006·7	41·2	44·8	36·8	59	1891, 98, 1900	17	1882, 1890	19	67	2·65	[1·39]§	[19]§
	Holyhead	1005·8	44·5	46·9	39·9	56	1888	26	1890, 1902	20	106	4·16	[1·77]**	[24]**
	Pembroke (St. Ann's Hd.)	1006·9	45·5	48·1	41·3	57	1899, 1902	19	1890	22	115	4·52	1·35	18
	Scilly (St. Mary's)	1008·6	47·6	50·7	44·0	58	1899, 1900	30	1890	23	111	4·36	1·81	23
	Falmouth	1009·5	45·5	48·8	41·6	57	1899	25	1886, 1890	23	159	6·27	1·77	22
	Jersey (St. Aubin's)	1011·5	46·2	48·8	41·1	59	1898	22	1890	22	105	4·15	1·87	23
	Portland Bill	1009·1	46·5	48·1	41·2	[56]†	[1906, 07, 13]†	[24]†	[1908]†	19	75	2·94	—	—
	Dungeness	1009·5	43·2	46·2	37·1	56	1897, 98, 1900, 07	12	1890	17	70	2·77	—	—
	Dover	[1010·2]§	[42·4]§	[46·7]§	[38·4]§	[54]§	[1912, 14, 15]§	[18]§	[1908]§	[21]§	[105]§	[4·12]§	[1·45]§	[19]§
	Wick	1001·3	39·3	43·6	34·3	58	1905, 1907	10	1906	22	78	3·08	—	—
	Nairn	1001·9	37·4	43·0	32·1	58	1900	8	1912	19	56	2·22	[1·16]‡	[18]‡
	Aberdeen	1003·3	38·5	42·9	34·2	57	1885, 98, 1906, 10, 12	6	1882	19	82	3·22	1·16	18
	Leith	1003·8	40·5	44·8	35·0	60	1896	6	1882	17	51	2·00	—	—
	Tynemouth	1005·2	40·0	44·3	34·7	59	1898	19	1882, 86, 91, 92, 1908	16	55	2·18	—	—
	Spurn Head	1006·5	40·7	43·6	36·4	56	1898, 1912	19	1891	16	51	1·99	[1·32]**	[18]**
	Yarmouth	1008·6	40·6	43·6	35·2	60	1901	18	1899, 1906	18	62	2·44	[1·23]§	[16]§
	Clacton-on-Sea	1009·6	40·8	43·4	35·8	[55]‡	[1904]‡	[17]‡	[1908]‡	15	45	1·77	1·52	20
	Nottingham	1007·7	39·9	44·2	33·9	59	1912	9	1908	20	61	2·39	0·90	12
	LONDON (Kew Obsy.)	1009·8	41·4	44·7	35·9	57	1882, 88 1902, 05, 07	11	1890	17	58	2·29	1·19	16

* Results for 30 years, 1886–1915.
† " 16 " 1900–1915.
‡ " 15 " 1901–1915.

‡ Results for 9 years, 1907–1915.
§ " 8 " 1908–1915.
‖ " 6 " 1910–1915.

¶ Results for 5 years, 1911–1915.
** " 2 " 1914–1915.

METEOROLOGICAL OFFICE,
South Kensington, London, S.W.
March, 1916.

Speeds computed for average height of 5 miles for cirro type cloud (double lines) and 3 miles for alto clouds (single line). For scale see p. 2.

AIR MINISTRY.

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

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

Notes on the Weather of DECEMBER, 1922.

During the early part of the month pressure was generally high to the southwestward or southward of the British Isles so that mild, westerly winds prevailed with rather dull weather but not much rain in southern England. Depressions in the Icelandic regions caused less settled conditions in the North with heavy rain at times and occasional gales on exposed parts of the coasts. About the 8th, high pressure spread northwards across Ireland and for a few days temperature was rather low in the eastern districts.

By the third week the anticyclone over France had withdrawn towards SE Europe and high winds had begun to prevail near the Mouth of the Channel. Throughout the latter half of the month depressions from the Atlantic extended their influence further south and small secondaries frequently crossed England causing wide-spread rain and gales in the Channel. After the 18th, a day seldom passed on which the wind did not attain gale force on some part of our coasts and on more than one occasion whole gales (average value about 60 mph) were experienced off Cornwall or Kent. Rain fell frequently in quantities of 20 mm or more and some measurements exceeded 40mm: 41mm at Plymouth (Cattewater) during the night of 19th to 20th and 42 mm at Petersfield during the 24hours ending 9 a.m. on the 22nd. In between the disturbances, however, there were not infrequently four or five hours bright sunshine and in some instances six or seven.

Thunderstorms occurred locally on seven days towards the end of the month while showers of snow or sleet fell fairly often in the North during this period but only once or twice in southern Ireland and England.

TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

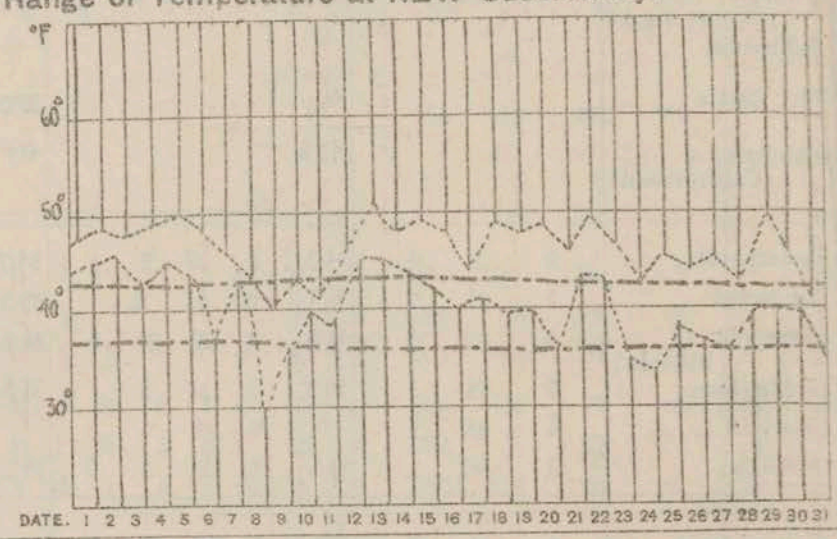
			Land Reports.
0. Dense fog.	Objects not visible at		55 yards.
1. Rather thick fog	"	"	220 "
2. Very bad	"	"	550 "
3. Bad	"	"	1,100 "
4. Very poor	"	"	1¼ miles.
5. Poor	"	"	2½ "
6. Moderate	"	"	6¼ "
7. Good	"	"	12½ "
8. Very good	"	"	31¼ "
9. Excellent	"	beyond	31¼ "

For making reports of visibility a set of "objects" is chosen at each station at certain specified distances. The degree of visibility is judged by noting the most distant of these objects which can be seen at the time of observation.

Daily Range of Temperature at KEW Observatory.

The upper pecked curve indicates the maximum temperature recorded each day throughout the month between 7h. and 18h.; the lower curve indicates the minimum temperature recorded each night between 18h. of one day and 7h. of the next.

The two nearly horizontal chain lines show the normal trend of day maximum and night minimum temperature.



SURFACE VISIBILITY. [No. of observations within fixed limits of telegraphic code.]

STATIONS (Observations were not taken at 1h. on 25th and 26th.)	1H. 0	1	2	3	4	5	6	7	8	9	7H. 0	1	2	3	4	5	6	7	8	9	13H. 0	1	2	3	4	5	6	7	8	9	18H. 0	1	2	3	4	5	6	7	8	9
Stornoway	0	0	0	0	9	15	5	0	0	0	0	0	0	0	1	4	21	5	0	0	0	0	0	0	0	2	23	6	0	0	0	0	0	0	0	3	25	3	0	0
Aberdeen	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	1	13	14	3	0	0	0	0	2	0	1	11	12	5	0	0	0	0	0	2	2	17	6	4	0
Edinburgh (Inchkeith) ...	0	1	0	0	0	1	3	6	16	2	0	0	0	0	0	0	4	4	21	2	0	0	0	1	0	2	7	16	5	0	0	0	0	2	0	0	2	11	15	1
Renfrew	*	*	*	*	*	*	*	*	*	*	0	0	0	3	4	6	10	8	0	0	0	0	0	1	4	5	10	6	5	0	0	0	1	2	0	6	18	3	1	0
Eskdalemuir	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	4	18	7	2	0	0	1	0	0	1	1	8	14	6	0	0	1	0	0	1	2	19	7	1	0
Baldonnell																																								
Birr Castle	*	*	*	*	*	*	*	*	*	*																														
Valencia (Cahirciveen) ...	*	*	*	*	*	*	*	*	*	*																														
Tynemouth	0	0	0	0	2	3	20	4	0	0	0	0	1	0	0	1	24	5	0	0	0	0	0	2	1	8	19	0	1	0	0	0	0	0	2	3	22	34	0	0
Holyhead	0	0	0	0	0	0	2	4	20	3	0	0	0	0	0	0	2	5	23	1	0	0	0	0	0	0	4	6	21	0	0	0	0	0	0	1	3	8	19	0
Liverpool (Bidston)	*	*	*	*	*	*	*	*	*	*	0	0	1	0	3	0	6	10	11	0	0	0	2	0	2	3	7	7	7	3	0	0	0	1	1	3	5	9	10	2
Nottingham	*	*	*	*	*	*	*	*	*	*	1	0	2	2	2	7	9	8	0	0	0	0	1	1	3	6	9	11	0	0	1	0	0	0	0	4	17	9	0	0
Cranwell	2	0	0	0	0	8	12	7	0	0	0	2	0	0	0	4	13	8	3	0	0	0	0	1	0	4	15	7	4	0	0	0	1	1	3	4	13	8	1	0
Groiston	0	0	0	1	1	2	11	11	3	0	0	0	0	0	1	2	11	17	0	0	0	0	0	0	0	5	17	9	0	0	0	0	0	0	0	5	15	11	0	0
Ross-on-Wye	*	*	*	*	*	*	*	*	*	*	0	1	0	0	2	0	4	2	16	6	0	0	0	0	0	3	3	9	13	3	0	0	0	0	1	2	6	9	8	5
Benson	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	1	8	7	14	1	0	0	1	0	0	1	6	10	11	2	0	0	1	0	0	0	7	11	10	2
London (Kew Obs.)	*	*	*	*	*	*	*	*	*	*	0	0	1	1	0	3	13	12	1	0	0	1	0	0	1	8	17	3	0	1	0	0	0	0	2	8	16	4	1	0
Croydon	0	0	0	0	4	2	8	14	1	0	1	0	0	0	1	7	10	12	0	0	0	0	0	3	2	3	17	6	0	0	0	0	1	3	3	4	16	4	0	0
Grain	*	*	*	*	*	*	*	*	*	*	0	0	1	0	0	0	10	13	7	0	0	0	0	1	1	2	11	7	9	0	0	0	0	0	0	3	12	7	9	0
Lympne	1	0	0	1	2	2	11	6	6	0	0	3	0	2	1	3	12	6	4	0	0	0	0	0	2	3	9	8	9	0	0	1	0	1	1	3	10	9	6	0
Falmouth (Pendennis) ...	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	3	15	13	0	0	0	0	0	0	1	6	7	6	1	0	0	0	0	0	4	4	20	3	0
Southampton (Calshot) ...	0	0	0	0	0	1	2	7	19	0	0	0	0	0	1	0	4	8	18	0	0	0	0	0	0	3	11	6	11	0	0	0	0	0	0	0	2	13	16	0

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

Pc. 2129/645. Wt. 259. D.7350/P.K.1050. 86L. 1/23.

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE,

Equivalents of Temperature.

A°.	F°.
263·6	15
265·0	23
268·6	24
273·0	32
273·6	33
278·0	41
278·6	42
283·0	50

STATIONS.	Temperature. Number of daily readings within fixed limits. † Maximum. 33 - 41	42 - 50	51 - 59	Normal Max.	† Minimum. 24 - 32	33 - 41	42 - 50	51 - 59	Normal Min.	Extremes—Warmest and Coldest Days. Highest Maximum.	Date.	Lowest Maximum.	Date.	Nights. Highest Minimum.	Date.	Lowest Minimum.	Date.	Number of Ground Frosts.	Low Cloud. Number of observations within fixed limits. 7h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	13h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	18h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.
				°F.					°F.	°F.		°F.		°F.		°F.											
Stornoway ...	6	22	3	44·4	3	19	9	0	35·4	53	4	34	29	49	4	28	16	*	18	11	0	16	15	0	20	10	0
Aberdeen ...	10	16	5	42·9	4	19	8	0	34·0	55	5, 13	34	11, 16	50	5	30	16, 28, 30	10	0	24	2	0	27	0	0	21	3
Edinburgh ... (Inchkeith)	6	21	4	*	0	22	8	?1	*	54	13	39	10	?51	13	35	10, 28, 29	3	*	*	*	*	*	*	*	*	*
Renfrew	8	19	4	*	7	16	8	0	*	*52	7, 13	35	20	50	13	27	16	11	1	28	0	3	22	5	3	21	3
Eskdalemuir ...	15	16	0	*	9	19	3	0	*	50	5, 13	34	15	47	14	24	10	10	9	19	1	5	25	1	7	21	0
Dublin ... ... (Phœnix Park)	4	24	3	46·5	5	23	3	0	35·2	55	12, 13, 14	37	20	49	13	26	15, 20	5	*	*	*	*	*	*	*	*	*
Baldonnel ...				*					*																		
Birr Castle ...				46·1					35·0																		
Valencia ... ... (Cahirciveen)				49·8					41·1																		
Tynemouth ...	6	21	4	44·3	0	25	5	1	34·7	54	13, 14	40	30	52	14	33	16, 20	5	0	21	0	1	25	0	0	20	0
Holyhead ...	0	26	5	46·9	0	8	22	1	39·9	52	5, 12, 13	44	20, 28	51	13	39	28	0	5	26	0	5	26	0	4	27	0
Liverpool ... (Bidston)	0	27	4	44·8	0	20	10	1	36·8	55	12, 13	42	10, 31	51	14	35	20, 29	4	2	28	0	5	21	0	2	27	0
Nottingham ...	2	26	3	44·2	2	20	8	1	33·9	53	13, 14	40	11	51	14	26	9	6	2	23	0	2	22	0	1	13	0
Cranwell	6	23	2	*	6	19	6	0	*	53	13	39	31	47	13, 14	28	9, 21	6	5	25	0	4	19	1	4	19	0
Gorleston ...	2	27	2	43·6	1	21	9	0	35·2	52	13	38	9	44	13, 14, 15	32	9	7	0	24	2	0	23	3	0	16	0
Ross-on-Wye ...	2	26	3	45·1	1	19	11	0	34·9	54	13	41	28, 31	49	13, 14	31	11	8	3	26	0	1	28	0	1	25	0
Benson	3	26	2	*	6	18	7	0	*	53	13	34	9	46	14	28	7	9	*	*	*	*	*	*	*	*	*
London ... ... (Kew Obsy.)	3	27	1	44·7	1	17	13	0	35·9	51	13	40	9	46	3	29	9	6	0	25	0	0	23	3	0	16	2
Croydon	4	27	0	*	1	17	13	0	*	50	15	39	11	45	3	30	9	5	6	19	0	7	20	0	7	17	0
Grain	2	29	0	*	2	20	9	0	*	50	5, 13, 15, 29	40	9, 11	43	5, 13, 14, 15, 23	24	9	9	0	22	1	2	23	0	1	19	0
Lympne	2	29	0	*	3	23	5	0	*	49	18	38	11	43	5	29	9	8	16	10	0	9	21	0	8	16	1
Southampton ... (Calshot)	1	30	0	*	0	13	18	0	*	50	1, 4, 5, 13, 14, 16, 18, 29	41	24	45	3, 13, 16, 22	35	7, 25	0	2	22	0	5	21	0	1	25	0
Falmouth ... (Pendennis)	0	19	12	*	0	10	19	2	*	53	13, 14	47	28, 30	51	13, 14	38	28	*	0	36	1	0	29	2	0	31	0

UPPER AIR TEMPERATURE.

Pressure.	Normal Height.	Normal Temperature.	Leuchars. Mean.	Leuchars. No. of Reports.	S. Farnborough. Mean.	S. Farnborough. No. of Reports.	Andover. Mean.	Andover. No. of Reports.
mb.	feet.	°F.	°F		°F.		°F.	
950	1730	35	41	16	37	3	40	2
850	4640	29	35	16	30	3	39	2
750	7870	21	23	9	22	3	35	2
650	11,490	9	–	0	12	1	28	1
550	15,620	-4	–	0	–	0	–	0

UPPER WINDS.

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

Station.	Renfrew. 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.	Valencia. No. of Obs.	Under 10 m.p.h.	10-25 m.p.h.	26-45 m.p.h.	46-75 m.p.h.	Above 75 m.p.h.	Lympne. No. of Obs.	Under 10 m.p.h.	10-25 m.p.h.	26-45 m.p.h.	46-75 m.p.h.	Above 75 m.p.h.
	2,000	9	0	6	3	0	0							46	2	25	17	2	0
	5,000	5	0	1	3	0	71							11	0	4	7	0	0
	10,000	0	-	-	-	-	-							0	-	-	-	-	-
	15,000	0	-	-	-	-	-							0	-	-	-	-	-

† Since March 1st, 1921, the readings used have (except in the case of Phœnix Park) been the maximum for the period 7h.–18h., and the minimum for the period 18h.–7h. Previously the period was 7h.–7h.

* Temperature rose to 54° during the night 12th - 13th.

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

RAINFALL, HUMIDITY AND LOW CLOUD, ...DECEMBER....., 1922.

Equivalents of Temperature.

A°.	F°.
283·6	51
288·0	59
288·6	60
293·0	68
293·6	69
298·0	77
298·6	78
303·0	86

STATIONS.	Sunshine. Number of Days with duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. hours.	Difference from average. hours.	Total for Month. hours.	Difference from average. hours.	Rainfall. Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months. mm.	Difference from Average. mm.	Total for Month.* mm.	Difference from Average. mm.	Days with Thunder.	Days with Snow or Sleet.
Stornoway ...	15	15	1	0	0	3·5	8	1260	+1	16	-7	3	4	16	5	3	0	20	5	1198	-68	152	-7	1	1
Aberdeen ...	10	17	4	0	0	5·0	8	1208	-179	36	*	14	3	10	4	0	0	10	17	773	+25	58	-24	0	2
Edinburgh ... (Inchkeith)	12	15	4	0	0	3·7	24	*	*	35	*	15	7	?8	1	0	0	11	29	459	*	41	*	0	1
Renfrew	18	11	2	0	0	4·9	1	1165	*	22	*	10	4	10	6	1	0	15	25	814	*	94	*	1	3
Eskdalemuir ...	20	9	2	0	0	4·8	1	1164	*	17	*	10	3	10	5	3	0	20	22	1279	*	147	*	2	6
Dublin ... ... (Phœnix Park)	13	12	5	1	0	6·2	26	1530	+23	43	-5	11	8	9	3	0	0	13	13	545	-160	56	-9	0	0
Baldonnel ...									*		*										*		*		
Birr Castle ...																				750	-79	102	+18		
Valencia ... ... (Cahirciveen)																									
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	16	7	?4	1	2	1	27	20	641	+20	86	+31	1	?1
Holyhead ...	17	13	1	0	0	4·5	24	1565	*	24	*	12	5	7	7	0	0	15	29	774	-114	98	-8	1	0
Liverpool ... (Bidston)	13	12	5	1	0	6·4	26	1346	*	39	*	13	5	9	4	0	0	13	23 29	663	-46	74	+7	1	1
Nottingham ...	18	10	3	0	0	4·4	26	1169	-156	27	-1	15	4	8	3	1	0	24	20	684	+86	77	+16	0	1
Cranwell	12	9	9	1	0	6·3	26	1580	*	57	*	14	5	6	5	0	1	28	20	650	*	88	*	0	1
Gorleston ...	15	11	5	0	0	4·5	6	*	*	43	*	9	10	9	3	0	0	8	21	699	+77	51	-11	0	0
Ross-on-Wye ...	9	15	7	0	0	5·6	26	1455	*	42	*	14	4	7	4	1	1	31	19	708	-10	103	+27	0	1
Benson	*	*	*	*	*	*	*	*	*	*	*	15	6	6	4	0	0	14	19	615	*	61	*	0	0
London ... ... (Kew Obsy.)	12	13	6	0	0	4·7	28	1478	+3	44	+7	15	4	7	5	0	0	15	21	568	-38	71	+13	0	0
Croydon	14	12	4	1	0	6·2	24	1498	*	46	*	16	2	8	4	0	1	28	21	687	*	101	*	0	0
Cranbrook	10	13	7	1	0	6·3	24	1593	*	58	*	17	3	8	3	0	0	13	21	*	*	55	*	0	0
Lympne	10	12	8	1	0	7·0	24	1721	*	60	*	14	3	9	5	0	0	15	19	729	*	84	*	0	0
Southampton ... (Calshot)	8	14	9	0	0	5·5	26	1746	*	55	*	16	3	6	4	2	0	24	30	647	*	103	*	1	0
Falmouth ... Observatory	7	18	6	0	0	4·9	24	1664	-95	48	-7	7	6	5	8	3	2	31	19	1151	+44	201	+42	3	0

MINIMUM SURFACE HUMIDITY.

No. of Days 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	1	8	13	8	1	0	0	0
Renfrew	0	1	12	15	3	0	0	0	0
Eskdalemuir ...	0	3	13	13	2	0	0	0	0
Valencia	*	*	*	*	*	*	*	*	*
Benson	1	2	15	13	0	0	0	0	0
London ... ... (Kew Obsy.)	0	0	8	18	5	0	0	0	0
Falmouth ...	1	0	6	10	13	0	1	0	0

NOTES ON CHART OF ISOPLETHS (p. 4).

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 1 mb. pressure intervals intersect this line at 1h., 7h., 13h. and 18h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W. in the north, at Lat. 44½° N., Long. 4° E. in the south.

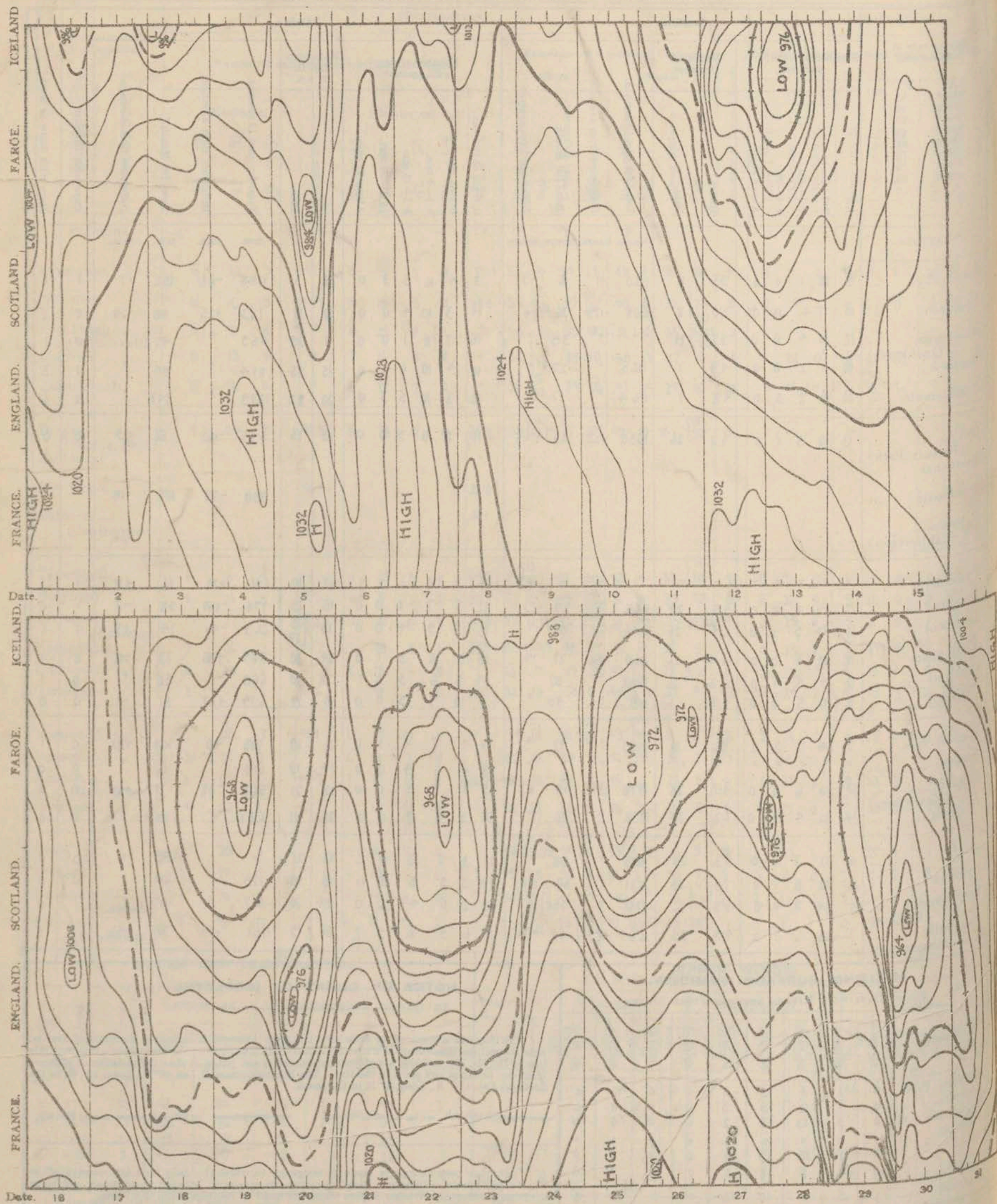
= 1,020 mb. = 1,000 mb. = 980 mb. = 960 mb.

* Based in part on reports made by telegraph in which the daily falls are rounded off to the nearest whole millimetre. Small discrepancies may arise between these totals and those given in the Monthly Weather Report which are based on readings taken to 0·1 mm.

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

PRESSURE: ICELAND TO GULF OF LIONS DECEMBER 1922.

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



* For explanation see page 3.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22289 Friday, December 1st 1922. Page 1.

Observations at 1300 G.M.T. Nov. 30th

STATIONS.	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	State of ground.
Lerwick	1009.4	-5	SW	4	O-	47	85	7	5700	StCu	4	ASt	9	*
Stornoway	1003.5	-7	SSW	6	or,r,	48	97	6	450	St	10	-	10	*
Wick	1007.4	-9	SSW	4	O	47	75	9	2500	Cu	6	ACu	9	*
Castlebay	1006.4	-5	SW	5	OPR	50	85	6	800	St	10	·	10	*
Nairn	*		*			*			*	*	*	*	*	*
Aberdeen	1012.4	-7	SSW	3	c+	45	92	6	1500	St	4	Ci	8	1
Malin Head	1010.8	-4	SW	6	c/r	43	85	8	2500	Nb	8	·	8	*
Renfrew	1014.0	-7	SSW	4	or,r,	46	92	5	1500	Nb	10	·	10	2
Edinburgh (Inchkeith)	1014.1	-6	WSW	4	c-	48	85	8	-	-	0	CiSt	7	*
Leuchars	1013.8	-6	SW	5	O	47	85	7	1500	St	7	Ci	9	0
Eskdalemuir	1016.4	-5	SSW	5	od,	43	92	7	1500	Nb	10	·	10	2
Tynemouth	1018.8	-4	SSW	3	bc/r	46	85	5	-	-	0	CiCu	6	*
Blacksod Point														*
Donaghadee	1016.8	-4	SW	3	or,r,	46	92	7	1500	St	10	·	10	*
Birr Castle	1018.4	*	S	2	od,d,	49	92	8	4000	Nb	9	·	9	*
Holyhead	1020.6	-5	SSW	5	O-	50	85	8	1500	Cu	6	ASt	10	0
Liverpool (Bidston)	1021.1	-3	SSW	3	bc-	46	85	8	2500	StCu	3	CiSt	5	*
Chester (Shotwick)	1022.4	-3	SSW	3	O	38	75	8	2500	StCu	9	-	9	5
Spurn Head	1022.4	-2	SW'S	3	O	46	85	5	4000	StCu	10	·	10	*
Nottingham	1022.9	*	WSW	3	O	47	75	6	2500	StCu	10	·	10	*
Cranwell	1024.2	-3	SW'S	3	O	46	85	6	2500	StCu	10	·	10	0
Gorleston	1024.7	0	W'S	2	mmO	46	85	4	4000	StCu	10	·	10	*
Valencia (Cahirciveen)	1020.3	0	WSW	4	o/r	50	92	9	1500	St	10	·	10	1
Roches Point														*
Pembroke (St. Ann's H.)	1023.8	-2	SSW	5	ojp	49	75	8	2500	CuNb	9	·	9	*
Ross-on-Wye	1024.5	-4	SW	3	O	47	75	7	2500	Nb	10	·	10	0
Benson	1025.2	-2	SSW	2	O	45	85	7	*	St	10	·	10	1
Andover	1026.4	-1	-	0	o/f	43	92	4	4000	St	10	·	10	0
S. Farnborough	1026.3	-2	WSW	2	o/f	48	65	6	2500	StCu	10	·	10	0
London (Kew Obsy.)	1026.2	-2	WSW	1	O	47	75	5	4000	StCu	10	·	10	1
Croydon	1026.3	-3	WSW	1	O	47	75	6	5700	StCu	10	·	10	1
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1026.0	-1	-	0	ffo	48	85	3	4000	StCu	10	·	10	*
Grain	1026.3	-3	SSW	2	vnmo	47	85	4	4000	StCu	10	·	10	1
Lympne	1026.5	-2	-	0	O	45	92	5	4000	StCu	10	-	10	1
Scilly (St. Mary's)	1026.5	-2	SSW	3	O	51	92	8	4000	StCu	9	-	9	*
Falmouth (Pendennis)	1027.6	-2	SW	4	c+	46	85	8	4000	StCu	8	-	8	*
Plymouth (Cattewater)	1026.7	-2	SW	2	c/p	49	75	8	4000	CuNb	8	-	8	0
Portland Bill	1026.2	0	WSW	3	O	49	75	7	450	St	10	·	10	*
Southampton (Calshot)	1026.4	-3	-	0	O	47	85	6	4000	StCu	10	-	10	0
Dungeness	1026.3	-1	NW	2	O	46	97	7	5700	StCu	10	-	10	*
Jersey 7h / Guernsey 1h	1027.1	0	WNW	2	O	49	92	6	1500	St	10	·	10	*

Observations at 1800 G.M.T. Nov. 30th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1005.3	-5	SW	4	or,r,	45	92	6	4000	Nb	10	·	10	3
Stornoway	1000.2	-4	SSW	6	OPR	48	92	6	450	St	10	·	10	3
Wick	1002.7	-6	SSW	5	bc	46	85	9	2500	Cu	1	ACu	6	3
Castlebay	1004.9	-1	W	6	OPR	50	85	6	800	St	10	·	10	6
Nairn	1003.5	*	W	2	c+	47	85	8	4000	Cu	8	·	8	*
Aberdeen	1007.0	-6	SW'S	4	b-	46	92	6	1500	St	1	·	1	0
Malin Head	1010.0	-1	W	7	cPR	47	85	7	5700	StCu	7	·	7	6
Renfrew	1009.3	-6	SSW	5	or	47	92	6	800	Nb	10	·	10	*
Edinburgh (Inchkeith)	1008.5	-6	SW	5	bc-	47	85	8	-	-	0	ACu	4	4
Leuchars	1009.5	-4	SW	5	O/r	47	85	7	1500	StCu	4	ASt	10	*
Eskdalemuir	1012.1	-4	SW'W	6	o/r	45	92	6	2500	StCu	10	·	10	*
Tynemouth	1014.4	-4	SW	3	c-	48	85	6	4000	StCu	8	-	8	2
Blacksod Point														
Donaghadee	1014.5	-2	WSW	1	c/r	46	92	8	2500	St	3	ACu	8	0
Birr Castle	1017.3	*	S	2	o+	48	85	6	2500	Nb	9	·	9	*
Holyhead	1017.0	-3	SW'S	5	o/r	50	97	7	1500	CuNb	10	·	10	5
Liverpool (Bidston)	1017.8	-4	SW	4	o+	48	85	8	2500	St	10	·	10	5
Chester (Shotwick)	1018.2	-4	SSW	5	o	49	75	7	1500	St	7	ASt	10	*
Spurn Head	1019.6	-3	S'W	4	bc⊕	44	92	6	·	·	0	CiSt	5	4
Nottingham	1020.8	*	SW	3	O	45	85	7	2500	StCu	10	·	10	*
Cranwell	1021.1	-3	SW'S	4	bc	42	92	6	2500	St	3	ASt	5	*
Gorleston	1023.3	-1	SW	3	O	45	75	7	4000	StCu	10	·	10	0
Valencia (Cahirciveen)	1021.0	+1	WSW	4	c+	51	75	7	2500	StCu	8	·	8	4
Roches Point														
Pembroke (St. Ann's H.)	1021.2	-1	SSW	6	opr,	50	85	8	2500	Nb	10	·	10	4
Ross-on-Wye	1022.8	-2	SW	4	O	45	85	8	4000	StCu	2	ASt	9	*
Benson	1024.0	-2	WSW	2	O	44	85	7	*	St	10	·	10	*
Andover	1024.7	-1	SSW	2	O	43	85	6	4000	St	10	·	10	*
S. Farnborough	1024.9	-1	SW	3	o/r	45	75	7	3700	StCu	10	·	10	*
London (Kew Obsy.)	1025.2	0	WSW	2	O	47	75	4	4000	StCu	9	-	9	*
Croydon	1025.0	-1	WSW	2	O	45	75	6	4000	StCu	10	-	10	*
Clacton-on-Sea	1024.4	-1	WSW	2	fo+	44	97	2	7200	StCu	10	·	10	0
Shoeburyness	1024.9	0	SW'S	1	mo-	43	92	4	4000	StCu	10	·	10	*
Grain	1025.1	-1	SSW	2	O	45	85	6	4000	StCu	10	·	10	0
Lympne	1025.5	-1	SE	2	O	43	92	5	4000	StCu	10	·	10	*
Scilly (St. Mary's)	1025.2	-1	SW	4	O	51	85	8	4000	StCu	10	·	10	4
Falmouth (Pendennis)	1025.5	0	W	3	OPR	48	85	8	4000	StCu	10	·	10	0
Plymouth (Cattewater)	1025.2	-1	SW	4	opr,	49	85	8	2500	StCu	10	·	10	0
Portland Bill	1025.7	-2	SW	4	O-	49	75	7	-	·	0	ASt	10	3
Southampton (Calshot)	1024.5	-1	SSW	3	c/r	47	75	6	4000	StCu	7	-	7	0
Dungeness	1025.4	-2	WNW	2	O	46	97	7	4000	StCu	10	·	10	2
Jersey 7h / Guernsey 1h	1026.2	0	WNW	2	O/r	48	92	6	1500	StCu	10	·	10	0

LONDON OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 1st								YESTERDAY.		TO-DAY.
Kew } 24 hours ended 0700	omwom	am	omcm	*	*	39	-	1	0·0	*	*
Croydon } 24 hours ended 0700	omm	omz	onzr	*	*	36	-	1	0·0	*	*
Greenwich (Royal Obsy.)	am	om	obcord	48	43	33	-	1	0·0	74	89
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	50	43	38	-	-	0·0	67	86
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0·0	*	*
Camden Square	O	O	*	49	44	41	-	1	*	*	93
Kensington Palace	OO	bO	*	48	45	36	-	1	*	73	91
Hampstead Observatory	*	*	*	47	42	35	-	04		*	98

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1600 G.M.T. 30th

South Kensington

Max.	Time.	Min.	Time.
1·0	1800.29	0·3	02·00.30
1·3	10.00.30		

Kew Observatory

Max.	Time.	Min.	Time.
0·6	1800.29	<0·3	0400.30
0·6	0900.30		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 30th ..... 17 h. 0 m. to 1st ..... 06 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	11.30	2.25	18
δ Ursae Minoris	11.30	2.08	16

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 today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	25°
18h.	C_1C_2	6	-	70°
01h.	C_1C_2	6	-	65°
07h.	C_1C_2	5	-	35

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

1st & 2nd December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·42	11·42	3·43
	7·43	11·41	3·42
Greenwich	7·45	11·49	3·54
	7·46	11·49	3·53
Wick	8·38	12·1	3·25
	8·39	12·1	3·24
Valencia	8·28	12·30	4·32
	8·29	12·30	4·32

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers * r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r,r,= continuous light rain.

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

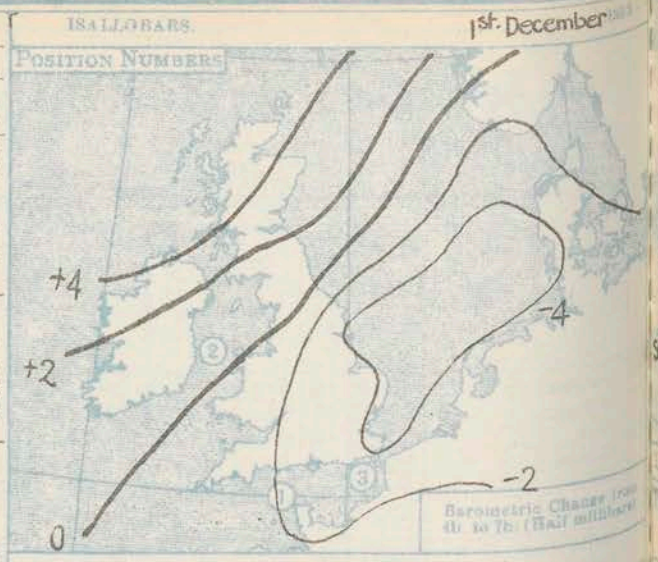
SEA DISTURBANCE.

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.

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.–13h. 30th	13h.–18h. 30th	18h. 30th to 1h. 1st	1h.–7h. 1st Dec	TEMPERATURE. MAX. Day. 7h.–18h.	MIN. Night. 18h.–7h.	MIN. on GRASS	RAINFALL.† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	SUN. Hours. 30th
Lerwick	eq	omr	c	bc	46	42	•	1	1	1730	<2100	0·3
Stornoway	r-d	rr	p	pr	48	44	•	8	4	40800	–	0·3
Wick	ov	orrc	oir	cir	47	42	•	0·2	2	13·30	<21.00	•
Castlebay	oprop	opcoo	opcop	pc	51	47	•	1	0·6	–	–	0·6
Nairn	bccq	cbccq	cpg	cRc	49	44	•	–	4	–	22.00	1·2
Aberdeen	b-bc	omgir	bbcm	bbcm	47	42	41	0.6	–	14·30	–	3·0
Malin Head	oir	copr	LdPR	coPR	49	44	•	1	2	11·00	<2100	1·0
Renfrew	comqr	orrRorq	orqm	opRc	47	44	39	4	4	40800	<21.00	0·9
Edinburgh (Inchkeith)	c	ir	b.bc c	c	49	45	42	0·3	–	16·30	–	3·3
Leuchars	oo	oro	b-bc		47	42	35	0·4	–	14·30	–	0·4
Eskdalemuir	oid	oirro	obc	bcorc	46	40	39	8	2	40800	2.30	0·1
Tynemouth	omp	omq	oirm	omq	48	44	37	trace	2	11·00	<21.00	•
Blacksod Point ...							•					•
Donaghadee	cp	cp	bcq	bcqp	48	43	•	2	0·4	40800	–	•
Birr Castle ...	cod r	corrc	coir	co	49	42	36	1	0·5	12·30	<21.00	•
Holyhead	cipoo	orrmr	rcocbc	bcco	50	46	45	2	trace	09.00	<21.00	0·4
Liverpool (Bidston) ...	cbc	co	opq		49	44	38	–	1	–	3.30	0·7
Chester (Shotwick) ...	oprc	ocoqoq	oprcq	oprqm	51	45	39	trace	1	09.00	<21.00	•
Spurn Head	om	omc	p	b-bc	46	42	•	–	1	–	<21.00	0·0
Nottingham	oo	cb	op	d	47	43	38	–	0·3	–	<21.00	0·0
Cranwell	id	ocm	oiro	r-d	46	42	39	trace	trace	11·00	<21.00	0·0
Gorleston	cmom	oo	coq	cir	46	42	38	–	1	–	1·30	0·0
Valencia (Cahirciveen)	omir	oc	b-bc	c	51	48	45	2	trace	40800	–	0·1
Roches Point							•					•
Pembroke (St. Ann's H.)	c	oo	odprq	oqpr	51	47	•	0·2	2	40800	<21.00	0·8
Ross-on-Wye	oco	ocojobc	cocoqp	cbbc	49	43	38	–	0·6	–	24·00	0·7
Benson...	o	d	bcco	irc	46	40	36	–	0·4	–	–	•
Andover	offom	om	omcbc	bccoro	45	39	32	–	0·6	–	2.30	0·0
S. Farnborough ...	mbo	moopr	ocor	roro	49	43	36	trace	2	17·30	24·00	0·0
London (Kew Obsy.)...	omwom	om	omcm	cmop	48	44	39	–	1	–	2400	0·0
Croydon	omm	omz	onzr	orrmo	48	42	36	–	1	–	2400	0·0
Clacton-on-Sea ...	ogm	ogm	omogm	ogpm	46	43	40	–	0·3	–	–	0·0
Shoeburyness	f-m	f-m	om	ocam	48	41	39	–	0·2	–	–	0·0
Grain	omom	omom						–		–		
Lympne ...	om	om	ombcb	bcom Fff	45	41	34	–	0·2	–	6·30	0·0
Scilly (St. Mary's) ...	cd	co	oqmr	oirq	53	46	•	trace	3	40800	2200	2·0
Falmouth (Pendennis)	obccp	cop	op	op	51	46	•	0·3	2	40800	<21.00	3·0
Plymouth (Cattewater)	op	copr	bbct	bbcert	51	47	43	trace	2	11·00	<21.00	0·6
Portland Bill	ob	oo	co	ocop	51	44	•	–	2	–	2·30	•
Southampton (Calshot)	oo	omd	c	p	48	43	39	trace	2	15·30	<21.00	0·0
Dungeness	oo	oo	b-bc	d	47	45	•	–	0·1	–	5·30	•
Jersey 7h. / Guernsey 1h.	o	odo	o	odo	50	44	•	trace	0·2	17.30	4·30	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	30th 10.00	"Anglia"	SSW	6	c	49	53	8
1	30th 1500	"Reindeer"	SSW	1	0	51	53	7
3	1st 0300	"Brighton"	WSW	5	ov	49	50	9

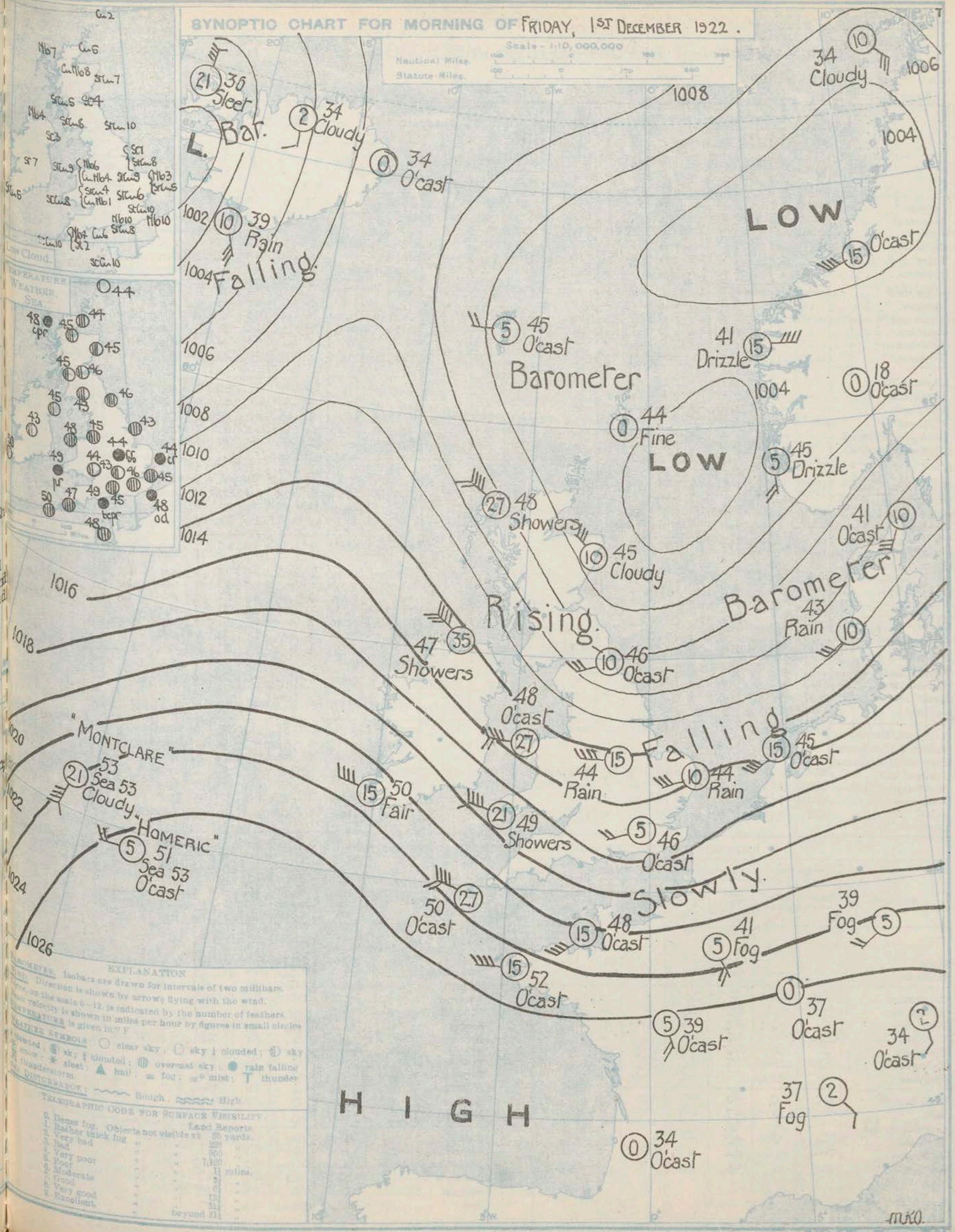
GENERAL INFERENCE.

Conditions are favourable for mild and rather cloudy weather with westerly to southwesterly winds for the next day or two. Some rain or drizzle is to be expected in Scotland, Ireland and NW. England but in the South and East of England there will probably be little or none.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. 1st December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate or fresh westerly wind, backing to S.W. later; much cloud at times, but little or no rain; visibility moderate or good; mild.	Mild in the South, probably without much rain; mainly mild in the North but rather colder at times.
7. North Wales 8. N.W. England 9. N. Midlands	Moderate or fresh westerly wind, backing to S.W later; mainly cloudy, occasional rain or drizzle; visibility moderate or good. mild.	
10. N.E. England 11. E. Scotland	As 1 to 6	
12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 to 9	

EVN

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF FRIDAY, 1ST DECEMBER 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
L. Bar.
Falling.
Rising.
Falling
Slowly.
Barometer
Barometer
LOW
LOW
HIGH
"MONTCLARE"
"HOMERIC"
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
21 36 Sleet
2 34 Cloudy
0 34 O'cast
10 39 Rain
34 Cloudy
10
1006
1008
1004
15 O'cast
5 45 O'cast
41 Drizzle 15
1004
0 18 O'cast
0 44 Fine
5 45 Drizzle
27 48 Showers
10 45 Cloudy
41 O'cast 10
43 Rain 10
47 35 Showers
10 46 O'cast
48 O'cast
27
15 44 Rain
10 44 Rain
15 45 O'cast
21 53 Sea 53 Cloudy
15 50 Fair
21 49 Showers
5 46 O'cast
5 39 O'cast
0 37 O'cast
2 34 O'cast
27 50 O'cast
15 48 O'cast
5 41 Fog
39 Fog 5
15 52 O'cast
37 Fog 2
0 34 O'cast
EXPLANATION
BAROMETER: Isobars are drawn for intervals of two millibars.
WIND: Direction is shown by arrows flying with the wind.
Mean velocity is shown in miles per hour by figures in small circles
TEMPERATURE is given in °F
WEATHER SYMBOLS: clouded; sky; clouded; sky
snow; sleet; hail; fog; mist; thunder
SEA DISTURBANCE: Rough. High
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog
2. Very bad
3. Bad
4. Very poor
5. Poor
6. Moderate
7. good
8. Very good
9. Excellent
Beyond 31
mKO.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Friday.....1st. December.....1922. No. 335.

Observations at 0100 G.M.T.....1st.....

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1001·8	0	–	0	c	45	97	7	5700	StCu	3	ASt	8	•
Stornoway	1002·6	+1	WNW	2	PR	•	•	5	•	•	•	•	•	•
Wick	1000·5	–2	SW	3	c/r	43	97	8	5700	Cu	7	–	7	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1010·7	+1	WNW	7	C/r	47	85	8	–	CuNb	4	ACu	8	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1005·8	–2	SW	5	o+	46	92	8	–	–	0	ASt	9	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1011·4	–1	WSW	1	b	46	85	7	–	–	0	ACu	2	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1016·5	–1	WSW	5	bc+	48	97	8	–	–	0	ACu	4	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1015·5	–2	SSW	6	bc/r	44	92	7	2500	St	4	–	4	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1017·3	–4	SW'W	4	o/r	45	97	7	1500	StCu	10	–	10	•
Gorleston	1020·1	–2	SW	5	o+	43	75	6	4000	Nb	5	ASt	10	•
Valencia (Cahirciveen)	1021·5	0	WW	4	o	50	85	7	–	StCu	10	–	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1020·0	–3	WSW	5	OPR	50	75	8	1500	StCu	10	–	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	46	•	•	•	•	•	•	•	•
Croydon	1021·7	–5	SW	4	or.r.	43	85	7	2500	Nb	10	–	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1021·9	–2	SW'W	3	bc	41	97	7	4000	StCu	2	CiSt	4	•
Scilly (St. Mary's) ...	1022·6	–1	NW	5	or.r.	48	92	6	2500	Nb	10	–	10	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1021·7	–3	WSW	6	o+	47	85	7	450	St	10	–	10	•
Southampton (Calshot)	1022·5	–3	SW	4	o+	47	85	8	4000	StCu	5	ASt	10	•
Dungeness	1022·7	–2	WSW	4	bc+	46	92	8	–	–	0	ACu	4	•
Jersey (7h)	1016·1	–2	SW	3	o	47	92	8	5700	StCu	2	ACu	9	•
Guernsey (1h)														

Observations at 0700 G.M.T.....1st.....

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1004·9	+5	–	0	b	44	92	7	5700	Cu	2	–	2	0
Stornoway	1008·3	+5	NW	6	cP-	48	92	6	1500	Nb	7	–	7	4
Wick	1004·6	+6	WNW	3	c/r	44	97	8	4000	Cu	5	Ci	7	3
Castlebay	1012·4	+5	NW	5	bc	47	85	7	1500	StCu	6	–	6	4
Nairn	1007·2	•	–	0	c/r	45	92	8	4000	CuNb	8	–	8	•
Aberdeen	1005·8	+3	NW	3	c	45	85	7	4000	StCu	7	–	7	0
Malin Head	1014·0	+4	NW	7	oP	47	85	8	5700	Nb	4	ASt	8	6
Renfrew	1009·4	+2	W	3	bc/r	45	85	7	2500	StCu	5	–	5	•
Edinburgh (Inchkeith)	1007·3	+2	WSW	4	bc	46	85	8	–	St	4	–	4	3
Leuchars	1007·0	+3	WSW	2	c+	46	85	8	4000	StCu	7	–	7	•
Eskdalemuir	1010·0	0	WNW	5	c	43	85	7	2500	StCu	8	–	8	•
Tynemouth	1008·7	–2	WSW	3	o	46	92	6	4000	StCu	10	–	10	1
Blacksod Point ...	1014·1	0	NW	4	bc	45	85	8	1500	St	3	ACu	5	3
Donaghadee	1019·7	•	W	2	c	43	92	6	1500	St	7	–	7	•
Birr Castle	1015·4	0	W'N	6	o	48	85	8	1500	StCu	9	–	9	5
Holyhead	1014·0	0	W'S	5	o/r	45	92	7	1500	Nb	10	–	10	6
Liverpool (Bidston) ...	1014·8	0	W	5	o/r	45	85	4	1500	Nb	10	–	10	•
Chester (Shotwick) ...														
Spurn Head	1011·7	–4	SW	4	o	43	92	7	1500	StCu	9	–	9	5
Nottingham	1014·4	•	W	4	or.r.	44	92	6	2500	Nb	10	–	10	•
Cranwell	1014·9	–1	WSW	3	o/r	43	97	7	2500	StCu	9	–	9	•
Gorleston	1016·2	–3	WSW	3	c r.	44	92	7	4000	StCu	8	–	8	2
Valencia (Cahirciveen)	1023·1	+1	NW'W	4	bc	50	65	7	2500	StCu	5	–	5	1
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1019·1	–1	WNW	5	cp.	49	75	8	1500	StCu	8	–	8	5
Ross-on-Wye	1017·4	–2	WSW	2	bc	44	85	8	4000	StCu	5	–	5	•
Benson...	1016·8	–2	WSW	3	bc/r	43	92	8	–	StCu	6	–	6	•
Andover	1018·3	–2	WSW	3	c	44	92	8	4000	StCu	8	–	8	•
S. Farnborough ...	1017·7	–1	WSW	3	o/r	45	92	7	1500	Nb	10	–	10	•
London (Kew Obsy.) ...	1017·3	–2	WSW	2	o/r	45	92	6	2500	StCu	10	–	10	•
Croydon	1017·9	–3	W	3	o/r	46	92	6	2500	Nb	9	–	9	•
Clacton-on-Sea ...	1016·9	–5	SW	4	o/r	45	97	7	5700	StCu	10	–	10	1
Shoeburyness	1017·2	–3	WNW	2	odd	46	97	6	800	Nb	10	–	10	•
Grain														•
Lympne	1017·5	–5	SW	4	Forr	45	97	1	<150	Nb	10	–	10	•
Scilly (St. Mary's) ...	1023·1	–1	NW'W	6	o	50	75	8	4000	StCu	10	–	10	6
Falmouth (Pendennis)	1022·0	0	W	4	o/r	47	85	8	4000	StCu	10	–	10	0
Plymouth (Cattewater)	1021·2	0	WNW	3	bc/r	47	75	8	1500	Nb	6	–	6	1
Portland Bill	1020·0	–2	NW	6	bcP-	49	75	7	1500	Cu	6	–	6	5
Southampton (Calshot)	1019·2	–3	W	3	o/r	46	85	8	4000	StCu	10	–	10	0
Dungeness	1017·8	–5	WSW	4	od+	48	97	8	1500	Nb	10	–	10	4
Jersey (7h)	1022·0	–2	SW	4	o/r	48	92	7	2500	StCu	10	–	10	3
Guernsey (1h)														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Thursday, 30th Nov.

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 29th-30th °F.	Temperature. Max. Day. 30th °F.	Rainfall.† Night 17h.-9h. 29th-30th mm.	Rainfall.† Day 9h.-17h. 30th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 30th hr.
Banff								0.4
Montrose	–	–	41	47	–	0·1		0.8
Llandudno	cbc	cbmc	41	51	–	–		2.2
Colwyn Bay ...	bc	bcg	45	50	–	–		0.9
Rhyl...	c	c	42	49	–	–		0.2
Southport	opc	co	45	49	–	–		0.3
Blackpool	o	or	46	49	0·1	0·3		0.3
Harrogate	o	cbcc	37	46	0·2	–		0.9
Skegness	o	ocbc	?	46	–	–		2.0
Aberystwyth ...	oc	co	43	49	–	–		1.5
Bath	mo	o	42	49	–	–		0.0
Leamington Spa ...	–	–	34	47	–	–		0.1
Lowestoft	o	o	43	47	–	–		0.0
Felixstowe	om	om	44	47	–	–		0.0
Southend	mo	o	40	46	–	–		0.0

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 29th-30th °F	Temperature. Max. Day. 30th °F	Rainfall.† Night 17h.-9h. 29th-30 mm	Rainfall.† Day 9h.-17h. 30th mm	Sunshine. hr.	Sunshine. Sunrise to Sunset. 30th hr.
Paignton	om	bcpb	36	51	–	–		1.0
Ilfracombe	cop	cop	46	50	0·1	1		3.1
Bude	ocmc	crdo	41	52	–	–		1.5
Penzance	cpd	bcco	45	53	–	trace		2.4
Falmouth Observatory	bcpc	cbco	44	52	–	0·1		0.4
Torquay	cmpc	pcbc	40	50	–	–		0.0
Weymouth	ofb	o	41	48	–	–		0.0
Bournemouth ...	o	o	36	47	–	–		0.0
Portsmouth (S'thsea)	om	om	39	48	–	–		0.0
Worthing	o	o	38	48	–	–		0.0
Brighton	o	o	43	47	–	–		0.0
Eastbourne	o	o	?	45	–	–		0.0
Hastings	wfmo	omf	41	47	trace	–		0.0
Folkestone	o	o	43	51	–	–		0.0
Tunbridge Wells ...	o	oom	40	47	–	–		0.0
Ramsgate	o	o	42	47	–	–		0.0
Margate	o	o	48	48	–	–		0.0
Deal	mo	oom	44	47	–	–		0.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22.2.20. Saturday, 2nd December, 1922.

Observations at 1300 G.M.T. 1st

Stations.	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	State of ground.
Lerwick	1010.8	+3	–	0	bc	46	85	7	4000	Cu	2	A.Cu	5	*
Stornoway	1014.4	+6	NW	3	c/r	47	92	6	1500	Nb	8	-	8	*
Wick	1011.3	+8	NW	2	c/r	47	92	8	2500	CuNb	1	Ci	8	*
Castlebay	1017.1	+4	NW	4	opr.	47	85	8	1500	St.	9	-	9	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1011.5	+5	NW	4	bc	48	92	8	1500	St.	6	-	6	1
Malin Head	1018.2	+4	NNW	6	cPR–	48	85	8	5700	Nb	5	Ci.Cu	7	*
Renfrew	1016.0	+2	WNW	6	or.	47	85	6	1500	Nb	10	-	10	2
Edinburgh (Inchkeith)	1013.3	+4	W	3	bc	47	85	7	*	St.Cu	3	Ci	6	*
Leuchars														
Eskdalemuir														
Tynemouth	1015.0	+6	NW	5	bc	47	75	7	2500	St.Cu	6	-	6	1
	1012.1	+3	NW	2	c/r	49	75	6	4000	St.Cu	8	–	8	*
Blacksod Point														*
Donaghadee	1017.4	+3	N	3	cd.	49	75	8	2500	St.	3	A.Cu	8	*
Birr Castle		*												*
Holyhead	1017.6	+2	NW'W	5	c–	48	85	8	1500	CuNb	7	–	7	*
Liverpool (Bidston)	1015.6	+1	W	5	opr.	46	92	6	800	Nb	10	-	10	*
Chester (Shotwick)	1016.0	+2	WNW	6	or.	47	85	6	1500	Nb	10	-	10	2
Spurn Head	1011.8	0	W'N	3	o/p	47	85	5	4000	Nb	10	-	10	*
Nottingham	1014.0	*	WNW	2	o	47	85	5	2500	Nb	10	-	10	*
Cranwell	1014.4	0	WSW	4	o/r	45	97	6	1500	St.Cu	10	-	10	1
Gorleston	1015.2	–1	W	3	c/r	45	85	7	4000	Nb	8	-	8	*
Valencia (Cahireiveen)	1025.0	+1	NW'W	4	o+	51	75	8	2500	St.Cu	10	-	10	1
Roches Point														*
Pembroke (St. Ann's H.)	1020.0	+1	WNW	5	o	48	75	8	4000	St.Cu	9	-	9	*
Ross-on-Wye	1017.3	<1	WNW	3	c+	48	75	8	4000	St.Cu	7	A.Cu	8	1
Benson	1016.4	–1	W	3	c	47	85	8	*	Cu	3	A.Cu	8	1
Andover	1017.6	–1	WNW	4	o	47	85	7	1500	St.Cu	9	-	9	0
S. Farnborough	1016.8	–1	W	3	c	48	75	7	4000	St.Cu	4	A.Cu	8	1
London (Kew Obsy.)	1016.2	–1	WNW	3	c+	48	75	6	5700	St.Cu	7	A.Cu	8	1
Croydon	1017.1	–1	W'N	3	o	47	75	6	2500	St.	10	-	10	1
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1015.8	–1	W	2	o/r	48	85	6	4000	St.Cu	8	A.St	9	*
Grain	1016.1	–1	W	4	o	48	75	6	2500	St.Cu	10	-	10	1
Lympne	1016.4	–2	W	3	o	47	85	7	2500	St.Cu	9	-	9	2
Scilly (St. Mary's)	1023.4	+1	NW'N	6	cPR	48	85	8	4000	CuNb	8	-	8	*
Falmouth (Pendennis)	1022.2	–1	NNW	4	bc	50	65	7	4000	CuNb	5	–	5	*
Plymouth (Cattewater)	1020.7	–1	W	2	c/p	48	75	8	2500	St.Cu	5	-	5	2
Portland Bill	1018.3	–2	WNW	6	b	50	75	7	–	-	0	Ci.Cu	2	*
Southampton (Calshot)	1017.7	–4	WNW	5	bc/r	49	92	8	1500	Cu	4	A.Cu	5	1
Dungeness	1017.5	–1	WSW	3	bc/r	47	92	8	–	–	0	A.Cu	6	*
Jersey	1020.8	0	W	4	c/r	51	75	7	4000	St.Cu	8	-	8	*

Observations at 1800 G.M.T. 1st

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.†	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1011.6	+2	WNW	2	cd.	44	97	6	2500	Nb	7	-	7	1
Stornoway	1017.2	+3	NW	2	o+	46	92	6	1500	Nb	10	-	10	1
Wick	1014.3	+4	WNW	2	c	44	97	8	2500	CuNb	6	Ci.Cu	7	0
Castlebay	1020.0	+3	W	3	o	49	75	6	1500	St.	10	-	10	3
Nairn	1016.4	*	W	1	bc–	45	85	8	4000	St.Cu	3	A.Cu	6	*
Aberdeen	1016.3	+5	NW'N	3	o+	47	92	7	1500	St.Cu	9	-	9	0
Malin Head	1020.4	+2	NW	4	o/r	49	85	8	5700	St.Cu	9	-	9	4
Renfrew	1018.7	+5	WNW	1	b	43	85	6	5700	St.Cu	1	Ci	3	*
Edinburgh (Inchkeith)	1016.7	+5	W	3	c	46	92	7	*	St.	2	A.St	7	2
Leuchars	1016.4	+5	W	3	b	43	85	8	4000	St.Cu	2	Ci	3	*
Eskdalemuir	1018.4	+4	NW	1	b	43	85	6	2500	St.Cu	3	-	3	*
Tynemouth	1016.4	+5	NW	1	o/r	46	85	6	4000	St.Cu	9	-	9	0
Blacksod Point														
Donaghadee	1020.3	+2	NW	2	c–	47	75	8	-	CuNb	3	A.Cu	7	1
Birr Castle	1023.3	*	W	1	o+	47	85	6	1500	St.Cu	10	-	10	*
Holyhead	1019.9	+5	NW'N	6	c+	49	85	8	4000	St.	3	A.Cu	8	5
Liverpool (Bidston)	1018.8	+3	WNW	4	o/r	47	85	8	2500	St.Cu	9	-	9	5
Chester (Shotwick)	1018.9	+3	NW	5	o/r	47	92	6	1500	St.	10	-	10	*
Spurn Head	1015.3	+4	WNW	3	b	44	92	6	-	-	0	-	0	4
Nottingham	1017.3	*	W	2	b	46	85	6	-	-	0	-	0	*
Cranwell	1017.5	+4	NW	3	b	44	97	6	2500	St.Cu	1	-	1	*
Gorleston	1016.2	–1	W'N	3	c/r	43	97	6	4000	St.Cu	8	-	8	1
Valencia (Cahireiveen)														
Roches Point														
Pembroke (St. Ann's H.)	1021.8	+1	WNW	4	o	48	75	8	4000	St.Cu	10	-	10	5
Ross-on-Wye	1019.5	+3	N'W	2	o	45	85	7	4000	St.Cu	10	-	10	*
Benson	1018.0	+3	W	2	o	45	85	8	*	St.	10	-	10	*
Andover	1018.4	+3	W	3	c–	42	92	7	2500	St.Cu	6	-	6	*
S. Farnborough	1018.2	+2	NW	4	o/r	45	85	7	4000	St.Cu	10	-	10	*
London (Kew Obsy.)	1017.7	+1	WNW	2	od.	46	85	6	4000	St.Cu	9	-	9	*
Croydon	1017.8	+1	W	1	o/r	44	92	5	1500	St.	10	-	10	*
Clacton-on-Sea	1016.2	+3	WSW	3	o/r	44	97	6	5700	St.Cu	10	-	10	0
Shoeburyness	1016.6	+1	WSW	2	cPR–	44	97	7	1500	Nb	10	-	10	*
Grain	1017.1	+2	W	4	or	44	97	5	2500	Nb	10	-	10	0
Lympne	1027.4	+2	NW	3	or	43	92	6	1500	Nb	10	-	10	*
Scilly (St. Mary's)	1023.9	0	NNW	5	c	49	75	8	4000	St.Cu	8	-	8	6
Falmouth (Pendennis)	1023.1	+4	NNW	4	o+	49	75	7	4000	CuNb	9	-	9	0
Plymouth (Cattewater)	1021.3	+2	NNW	3	b	47	85	7	1500	St.	2	-	2	0
Portland Bill	1018.9	+1	NW'N	5	b	50	85	7	-	-	0	Ci.Cu	2	3
Southampton (Calshot)	1018.7	+2	NW	4	o/r	45	85	8	4000	St.Cu	10	-	10	0
Dungeness	1018.4	+1	NW	3	c/r	44	97	7	1500	St.Cu	8	-	8	3
Jersey	1019.7	0	W	3	o	48	85	7	4000	St.Cu	10	-	10	3

London Observations

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 Hours ended 0900 G.M.T. 2nd								Yesterday.	To-day.	
Kew											
Croydon (24 hours ended 0700)	bmcz	o.rmd.	o.r.o.m	*	*	40	2	0.2	3.4	*	*
	obmoz	o.r.zm	omr	*	*	36	2	1	3.5	*	*
Greenwich (Royal Obsy.)	bc	or	o.rm	49	44	38	3.6	0.8	3.2	90	87
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.5	*	*
Westminster (St. James' Pk.)	*	*	*	50	44	39	3.7	*	2.8	88	82
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	2.5	*	*
Camden Square	bc	or	*	50	44	40	3.8		*	*	88
Kensington Palace	bco	o.d.r	*	49	44	37	3.5	0.4	*	80(15h)	87
Hampstead Observatory	bc	or	0	48	41	30	3.1	tr	3.2	*	99

Atmospheric Pollution

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1600 G.M.T. 1st

South Kensington

Max.	Time.	Min.	Time.
0.6	19h. 30m.	20.3	1-5h. 1st
0.6	9h. 1st		

Kew Observatory

Max.	Time.	Min.	Time.
0.6	19h. 30m.	20.3	4-6h. 1st
0.5	16h. 1st		

Pole Star Record at Greenwich Obsy.

Exposure from 1st ... 17 h. 00 m. to 2nd ... 06 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 30	1 30	11
δ Ursae Minoris	13 30	1 7	8

Radio Disturbances (Atmospherics) at Croydon.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	4	–	100°
15h.	C	5	–	40°
01h.	C,C2	5	–	95
07h.	C,C2	6		140

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

2 & 3rd, December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.43	11.42	3.42
	7.43	11.43	3.41
Greenwich	7.46	11.49	3.53
	7.48	11.50	3.52
Wick	8.39	12.1	3.24
	8.41	12.2	3.23
Valencia	8.29	12.30	4.32
	8.31	12.31	4.31

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
p precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 ; l = intermittent ; – = "decreasing" ; + = "increasing" ; h(r) = "hail" or "rain and hail" ;

Capital letters indicate intense, 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 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	64-72
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.

Code for state of ground.
0=Dry ground.
1=Wet ground.
2=Soft (muddy) wet ground.
3=Bare ground frozen (but less than 2 ins. deep.
4=Bare ground frozen (but more than 2 ins. deep.
5=Dew (or wet grass but not wet ground).
6=Snowing today in 1300 & 1800 reports (Hoar frost in 0900 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 freezing rain or melted snow).

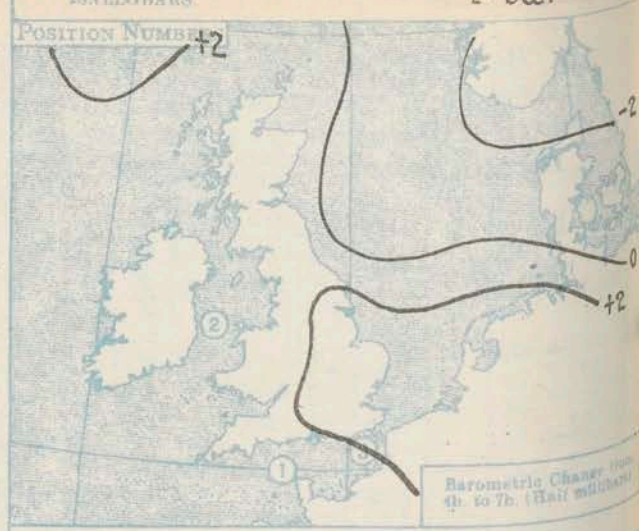
For explanation see Introduction. * Information for these columns not usually received. † The barometric change is expressed in half millibars. § For code see page 3.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 1st	WEATHER. 13h.-18h. 1st	WEATHER. 18h. 1st to 1h 2nd	WEATHER. 1h.-7h. 2nd	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	RAINFALL.† Night. 18h.-7h. mm.	RAINFALL.† Precipitation began.	RAINFALL.† Precipitation began.	SUN. 1st Hours.
Lerwick	bc	c[illegible]d	0md	0mr	47	45	•	0·1	4	1630	L2100	•
Stornoway	p	c	p	dp	47	44	•	1	0·6	–	–	1·2
Wick	c'ld.o	c	or.r	oo	47	43	•	0·1	0·4	1100	2400	•
Castlebay	cop	opo	opo	oc	49	48	•	Trace	trace	–	–	0·4
Nairn	dcgbc	bcgc	bcg	ircq	48	45	•	0·3	2	0900	2200	1·2
Aberdeen	c	bcco	cbcm	rrom	48	43	35	–	2	–	0130	3·7
Malin Head	copR	oo	coc	ldco	49	47	•	0·6	0·1	L0800	2400	0·0
Renfrew	oir.q	cbcb	bccm	ofom	50	42	36	Trace	0·4	–	0430	4·9
Edinburgh(Inchkeith)	cm	c	1	2r.	51	46	39	–	1	–	0530	1·4
Leuchars		bbc		r	51	32	27	–	x	–	0430	3·1
Eskdalemuir	cbc	c	bbc	co	48	38	38	–	–	–	–	4·5
Tynemouth	opom	cparn	om	bcm	47	40	37	0·5	–	0900	–	•
Blacksod Point ...							•					•
Donaghadee	bcp	bc	bc	oo	50	44	•	Trace	trace	1230	0530	•
Birr Castle ...		co	co	co	43	42	36	–	–	–	–	0·0
Holyhead	ooc	c	coo	oo	49	47	46	Trace	–	L0800	–	0·0
Liverpool (Bidston) ...	opco	odo		co	47	44	34	1	–	1100	–	0·0
Chester (Shotwick) ...	oer.qpr	oproq	oqcom	ofpr.	49	42	36	1	tr	L0300	0630	•
Spurn Head	op	ocloc	oo	om	47	41	•	Trace	–	1100	–	0·0
Nottingham	op	c	bom	form	48	38	34	0·2	–	L0800	–	0·0
Cranwell	copr	orobm	om	ocbcm	45	38	34	0·2	trace	1630	–	0·1
Gorleston	cir	cir.	bcirc	ocir.	47	41	37	Trace	1	L0800	L2100	0·0
Valencia (Cahirciveen)	bco		oo	oo	51	48	46		tr		–	0·0
Roches Point	c						•					•
Pembroke(St.Ann's H.)	coq	oo	oo	oo	51	45	•	Trace	–	L0800	–	0·0
Ross-on-Wye	cp.bcc	ocd.ov	ebcvcv	cbcwco	49	38	32	0·3	–	0900	–	2·5
Benson...	co	oro	o	o	48	40	35	0·2	–	–	–	•
Andover	co	ocloc	bcc	coc	48	42	35	–	–	–	–	3·9
S. Farnborough ...	ocbcbcoc	copr.		om	50	42	37	0·5	–	1430	–	4·3
London (Kew Obsy.)...	bmcz	ormomd.	or.mom	omom	48	45	40	2	0·2	1430	L2100	3·4
Croydon	domoz	or.zm	omr	om	48	42	36	2	1	1330	L2100	3·5
Clacton-on-Sea ...	ogmc	cogmroq	oqcbc	bccm	47	39	35	1	–	1630	–	1·2
Shoeburyness	old.mom	oopR.opr	o	om	50	45	36	2	–	1530	–	1·7
Grain	orm	ocoirm	oir.m	omom	49	39	32	2	trace	1530	L2100	1·8
Lympne	orr.of	bcr.	ormr.	ormmr	49	40	38	2	2	L0800	L2100	2·2
Scilly (St. Mary's) ..	cqp	co	oqp.	oo	52	44	•	1	0·1	1230	L2100	1·5
Falmouth (Pendennis)	opcloc	bccop		bcco	51	45	•	1	0·3	L0800	L2100	2·5
Plymouth(Cattewater)	bcpr	p.bcpro	b	bcbo	50	42	38	1	–	L0800	–	1·8
Portland Bill	cbc	b.bc	bcc	cbc	52	45	•	–	–	–	–	•
Southampton(Calshot)	cjpbc	p	c	oo	50	42	39	Trace	–	1730	–	4·3
Dungeness .	r.d.	p	p	m	48	40	•	2	0·3	L0800	L2100	•
Jersey	or.oc	ocbo	p	o	53	46	•	4	1	1100	2200	0·0

ISALLOBARS 2nd Dec.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
2	1st 1010	Anglia	W	6	c	47	52	5
3	2nd 0300	Arundel	N	2	b	46	50	7

GENERAL INFERENCE.

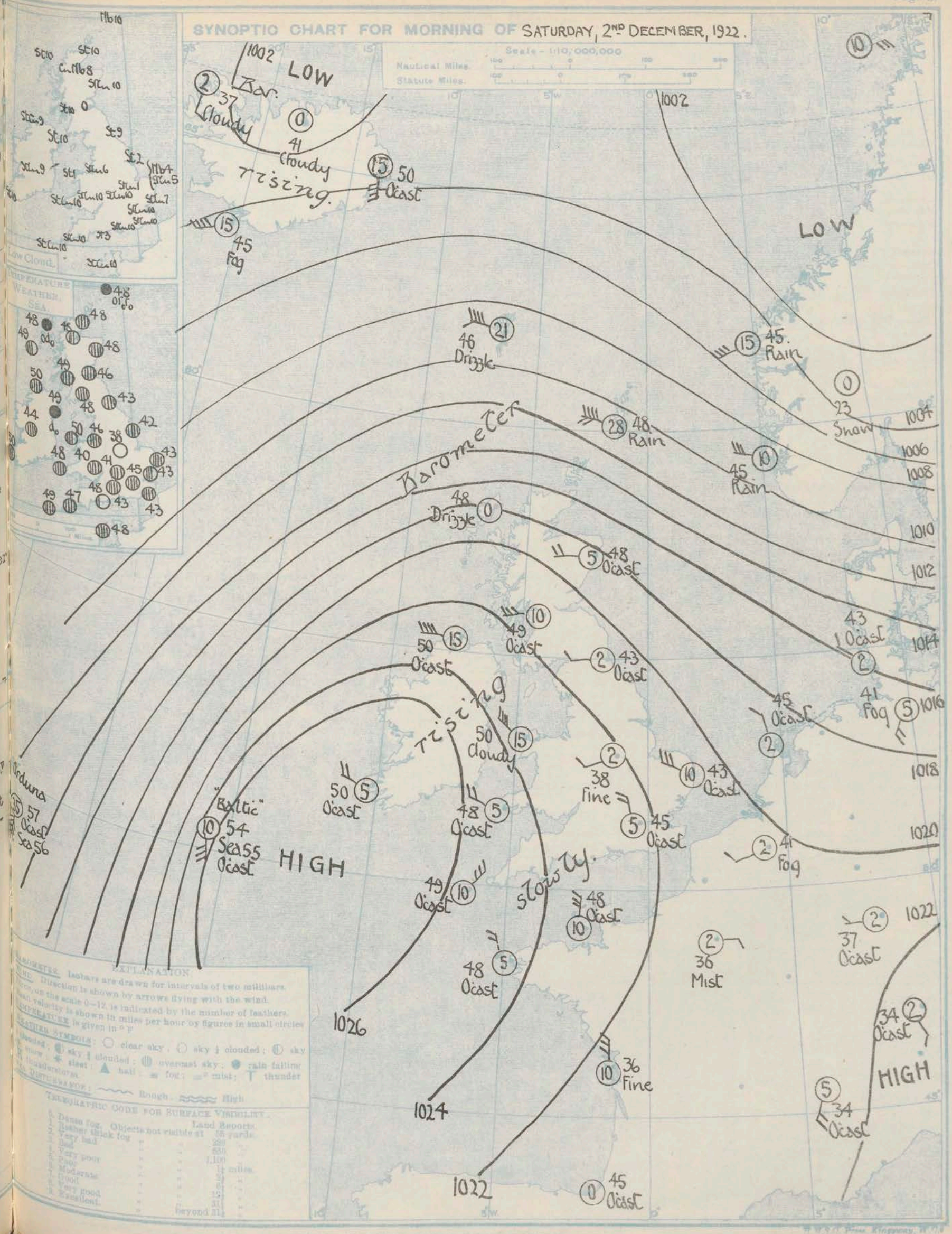
An anticyclone still lies to the south of Ireland while a large depression occupies most of the North Atlantic. Mild weather will continue over the British Isles for the next day or two with rather cloudy weather and some rain or drizzle at times but in the southern districts considerable rainless periods may be expected.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday, 2nd. December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate winds from between W and NW , backing to W or SW later; mainly cloudy; visibility moderate; mild.	Mild S.W. to W winds; rather cloudy with occasional rain or drizzle but considerable rainless periods in the South.
5. S.W. England	Wind N to NW, moderate or light; mainly cloudy; visibility moderate or good ; mild.	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind W., backing to S.W; moderate to fresh; much cloud, occasional rain or drizzle; visibility moderate or good; mild.	
10. N.E. England 11. E. Scotland	Moderate W wind, backing to S.W later; mainly cloudy; visibility moderate; mild.	
12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 6 to 9	

E.V.N.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.15. G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF SATURDAY, 2ND DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
Bar.
Cloudy
Rising.
Fog
LOW
Rain
Snow
Drizzle
Barometer
Rain
Drizzle
Rain
Rising
Cloudy
Rising
Slowly.
"Baltic"
HIGH
Fine
Fog
Mist
Fine
HIGH
Orduna
Sea
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
EXPLANATION.
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Mean velocity is shown in miles per hour by figures in small circles
TEMPERATURE is given in ° F
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky
snow; sleet; hail; fog; mist; thunder
thunderstorm.
SEA DISTURBANCE: Rough. High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0 Dense fog. Objects not visible at 55 yards.
1 Rather thick fog
2 Very bad 220
3 Bad 550
4 Very poor 1,100
5 Poor
6 Moderate ¼ miles.
7 Good ½
8 Very good 1
9 Excellent. 2
5
10
31
Beyond 31

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Saturday ... 2nd. December ... 1922. No. 336.

Observations at 0100 G.M.T. ... 2nd ...

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1011·2	0	W	4	0ft	47	97	6	2500	Nb	10	-	10	*
Stornoway	1015·7	+2	NW	2	pr	*	*	5	*	*	*	*	*	*
Wick	1015·2	0	WSW	2	0ft	43	97	8	800	St	10	-	10	*
Castlebay	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	1022·1	+1	W	4	od	50	93	7	1500	St	6	ci St	10	*
Renfrew	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	1019·4	+1	WSW	2	mo-	43	93	6	-	St	4	a St	10	*
Leuchars	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	1019·6	+1	W	2	b-	45	93	6	-	-	0	a St	3	*
Blacksod Point ...														*
Donaghadee	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	1023·2	+2	NNW	4	0	49	75	8	2500	St Cu	10	-	10	*
Liverpool (Bidston) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Shotwick) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	1019·8	+2	WNW	4	0	44	97	6	4000	St Cu	10	-	10	*
Nottingham	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	1020·5	+2	NW'N	3	0	43	97	5	1500	St	10	-	10	*
Gorleston	1019·2	+1	WNW	3	0ft	42	97	6	4000	Nb	10	-	10	*
Valencia (Cahirciveen)	1027·1	0	W	1	0	50	97	8	-	St Cu	10	-	10	*
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	1024·1	+1	NNW	3	0	48	75	8	4000	St Cu	10	-	10	*
Ross-on-Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Andover	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	1020·8	+2	W'N	2	o/r	43	92	5	1500	St Cu	10	-	10	*
Cleeton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Grain	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	1019·8	0	N	2	0	42	97	6	1500	St Cu	10	-	10	*
Scilly (St. Mary's) ...	1025·0	+1	NNE	3	0	50	75	8	4000	St Cu	10	-	10	*
Falmouth (Pendennis)														*
Plymouth (Cattewater)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	1022·0	+3	N'W	5	c+	47	85	6	-	-	0	a Cu	7	*
Southampton (Calshot)	1021·8	+3	NW'N	4	c	55	92	8	4000	St Cu	7	-	7	*
Dungeness	1019·7	+1	NW	3	bc/r	42	85	7	-	-	0	a Cu	4	*
Jersey 7h }	1022·1	+2	NNW	4	oph	47	92	8	5750	Cu Nb	9	-	9	*
Guernsey 1h }														

Observations at 0700 G.M.T. ... 2nd ...

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1011·2	0	WNW	6	0ft	48	97	6	2500	Nb	10	-	10	5
Stornoway	1018·9	+1	-	0	od	48	92	6	450	St	10	-	10	0
Wick	1015·8	+1	WNW	3	0	48	92	8	1500	St	10	-	10	*
Castlebay	1021·4	+1	WNW	2	bc	49	85	6	1500	St	6	-	6	*
Nairn	1018·3	0	W	3	c/r	48	85	8	4000	Cu Nb	8	-	8	*
Aberdeen	1018·2	0	W	2	0	48	92	6	2500	St Cu	10	-	10	0
Malin Head	1023·1	+1	W	4	0	50	85	8	5750	St Cu	9	-	9	4
Renfrew	1021·3	0	W	3	o/r	49	92	6	2500	St	10	-	10	*
Edinburgh (Inchkeith)	1019·6	+1	SW	3	o/f	46	97	7	-	-	0	a St	10	2
Leuchars	1018·5	0	SW	3	o/r	45	92	8	-	-	0	a St	9	*
Eskdalemuir	1021·2	+1	NW	3	0	48	85	7	2500	St Cu	8	a St	10	*
Tynemouth	1020·4	0	W	1	0-	43	92	6	4000	St	9	-	9	0
Blacksod Point ...	1023·2	+1	W	1	od	49	85	8	2500	St	10	-	10	0
Donaghadee	1026·3	*	W	1	o+	44	97	7	4000	St Cu	9	-	9	*
Birr Castle	1023·9	+1	NW'W	4	0	50	92	8	1500	St	10	-	10	3
Holyhead	1022·5	0	W'N	4	o+	46	97	6	2500	St Cu	6	a St	10	4
Liverpool (Bidston) ...	1022·9	+1	NW	2	o-r	46	92	3	1500	St	10	-	10	*
Chester (Shotwick) ...														
Spurn Head	1021·3	+2	WNW	3	0	42	92	6	1500	St	2	a St	10	4
Nottingham	1022·7	*	W	1	b	38	97	2	-	-	0	-	0	*
Cranwell	1022·8	+2	W'N	3	bc-	39	97	6	2500	St Cu	1	ci Cu	5	*
Gorleston	1020·7	+1	NW	3	o/r	43	92	6	4000	St Cu	9	-	9	0
Valencia (Cahirciveen)	1027·6	0	WNW	2	0	50	85	7	2500	St	10	-	10	1
Roches Point	1028·8	0	NW	2	0	48	85	8	4000	St Cu	10	-	10	3
Pembroke (St. Ann's H.)	1023·9	+1	SW	1	0	40	97	9	2000	St Cu	10	-	10	*
Ross-on-Wye	1022·9	+2	-	0	0	41	92	6	-	St Cu	10	-	10	*
Benson	1023·4	+2	NNW	3	c-	42	92	7	2500	St Cu	7	-	7	*
Andover	1022·7	+1	WNW	2	0	43	97	6	4000	St Cu	10	-	10	*
S. Farnborough ...	1023·0	+2	NNW	2	0	45	85	6	2500	St Cu	10	-	10	*
London (Kew Obsy.) ...	1022·6	+2	NW	2	o/r	43	92	5	800	St	10	-	10	*
Croydon	1021·4	+3	WNW	2	c	43	97	5	7250	St Cu	7	-	7	0
Cleeton-on-Sea ...	1022·0	+2	NW	1	mmo	43	92	4	1500	St Cu	10	-	10	0
Shoeburyness	1022·4	+2	WNW	3	0	43	97	6	1500	St	10	-	10	*
Grain	1021·8	+2	N'W	3	0	42	92	4	1500	St Cu	10	-	10	*
Lympne	1025·5	0	NE'N	3	0	49	65	8	4000	St Cu	10	-	10	5
Scilly (St. Mary's) ...	1026·0	+1	N	1	o+	47	75	8	4000	St Cu	10	-	10	0
Falmouth (Pendennis)	1024·9	+2	-	0	0	45	85	8	2000	St	10	-	10	0
Plymouth (Cattewater)	1022·8	+1	N'W	4	b	48	85	7	450	St	3	-	3	1
Portland Bill	1023·6	+1	NW	2	0	44	92	8	4000	St Cu	10	-	10	0
Southampton (Calshot)	1022·0	+1	N	2	0	43	97	6	-	-	0	a St	10	2
Dungeness	1023	0	N	3	o/r	48	92	7	4000	St Cu	10	-	10	0
Jersey 7h }														
Guernsey 1h }														

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 30th-1st	Temperature. Max. Day. 1st	Rainfall.† Night 17h.-9h. 30th-1st	Rainfall.† Day 9h.-17h. 1st	Sunshine.	Sunshine. Sunrise to Sunset. 1st
			°F.	°F.	mm.	mm.	hr.	hr.
Banff								2·3
Montrose	*	*	42	50	-	-		2·2
Llandudno	ro	odo	41	49	1	0·3		0·0
Colwyn Bay ...	cd	cd	45	48	2	1		0·0
Rhyl	cp	c	45	48	2	0·3		0·1
Southport	opc	cbccco	45	48	5	0·3		0·0
Blackpool	roc	pc	46	48	3	0·3		0·1
Harrogate	oc	bccb	42	48	2	-		1·2
Skegness	ro	orocb	40	46	1	1		0·1
Aberystwyth ...	roc	o	45	48	2	-		0·5
Bath	bcb	bbccp	44	50	1	-		3·0
Leamington Spa ...	o	o	34	47	0·1	0·2		0·0
Lowestoft	bcbcp	cocod	42	48	0·4	1		2·0
Felixstowe	bco	or	42	47	-	1		2·0
Southend	co	or	42	48	0·4	2		0·0
Paignton	ocbc	bcpb	44	51	2	Trace		1·3
Ilfracombe	cop	ocbc	46	49	4	0·1		0·0
Bude	ro	c	45	50	4	-		0·3
Penzance	oro	opcbc	45	52	3	1		1·0
Falmouth Observatory	opbcc	cbcp	45	51	3	1		2·5
Torquay	cpbc	cpbc	44	52	2	1		2·6
Weymouth	cbc	bcb	45	52	2	-		4·7
Bournemouth	b	b	40	50	2	-		4·5
Portsmouth (S'thsea)	cb	bc	44	50	1	-		3·8
Worthing	obc	cbc	44	49	3	-		3·0
Brighton	ocb	bbr	44	49	3	2		2·9
Eastbourne	co	cbcpcpo	44	49	3	1		2·7
Hastings	oec	cbcor	44	49	3	1		1·2
Folkestone	rec	c	44	50	4	-		1·5
Tunbridge Wells ...	bc	bccor	41	49	1	1		3·4
Ramsgate	o	o	42	48	2	-		0·2
Margate	oc	o	42	49	2	-		0·3
Deal	orc	c	42	48	2	-		0·4

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 2.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22,291 Sunday, 3rd December, 1922.

Observations at 1300 G.M.T. 2nd

Stations.	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	State of ground.
Lerwick	1013·2	+2	NWW	5	od.	48	92	6	4000	Nb	10	–	10	*
Stornoway	1020·9	+2	W	3	o–	50	85	6	200	St	9	–	9	*
Wick	1018·0	+1	WNW	2	o	50	75	8	4000	StCu	9	ASt	10	*
Castlebay	1023·6	+1	WNW	4	cp.	51	85	7	2500	St	8	–	8	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1020·0	+1	W'N	4	bc	50	75	7	2500	StCu	6	–	6	1
Malin Head	1024·4	+1	W	4	cD	50	92	?	800	St	7	CiCu	8	*
Renfrew	1022·2	0	W	3	c–	50	85	8	2500	StCu	8	–	8	1
Edinburgh (Inchkeith)	1021·0	+1	WSW	3	mb–	48	85	6	–	StCu	1	CiCu	3	*
Leuchars	1019·9	+2	W	3	bc	50	75	8	–	–	0	Ci	5	1
Eskdalemuir	1022·0	0	W'N	4	c	47	75	7	2500	StCu	1	CiCu	7	0
Tynemouth	1021·3	+1	W	2	c–	50	85	6	4000	StCu	5	ACu	8	*
Blacksod Point														*
Donaghadee	1024·6	+1	NW	2	bc–	49	85	8	–	CuNb	2	ACu	6	*
Birr Castle	1027·7	*	W	1	o	50	85	6	2500	StCu	9	–	9	*
Holyhead	1025·4	0	NW	4	o	50	92	7	1500	StCu	10	–	10	0
Liverpool (Bidston)	1024·2	0	W	3	o/r	48	97	6	1500	CuNb	10	–	10	*
Chester (Shotwick)	1024·3	0	WNW	4	o	51	85	6	1500	StCu	10	–	10	1
Spurn Head	1022·1	+1	W	3	mo–	48	92	4	1500	StCu	10	–	10	*
Nottingham	1022·7	*	WSW	2	o	48	92	5	1500	St	9	ACu	10	*
Cranwell	1023·3	0	WSW	2	mmo	46	92	5	4000	StCu	8	ACu	9	1
Gorleston	1022·3	+2	W'N	3	o	48	85	5	2500	St	10	–	10	*
Valencia (Cahirciveen)	1029·1	+1	N'W	1	o·	50	75	8	2500	St	10	–	10	1
Roches Point														*
Pembroke (St. Ann's H.)	1026·3	+1	NNW	3	o	50	85	8	4000	StCu	10	–	10	*
Ross-on-Wye	1024·6	0	SW'W	1	o	49	85	8	2500	St	10	–	10	0
Benson	1024·8	–1	WNW	1	mo–	45	92	6	–	Cu	10	–	10	2
Andover	1025·0	+2	WNW	3	o+	46	85	7	1500	StCu	10	–	10	0
S. Farnborough	1024·4	0	NW	2	c–	48	85	7	4000	StCu	2	ACu	8	0
London (Kew Obsy.)	1024·2	–1	NW	2	bc	49	75	5	2500	StCu	1	Ci	6	1
Croydon	1024·4	0	W	2	o/m	47	85	5	–	–	0	ACu	9	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1023·5	0	NW	1	c	48	85	6	2500	StCu	3	ACu	8	*
Grain	1023·7	+2	NW	2	o–	47	85	6	2500	St	3	ACu	9	2
Lympne	1023·6	+1	N'W	2	o	46	85	5	1500	St	10	–	10	2
Scilly (St. Mary's)	1027·1	0	NE	1	o	51	65	8	4000	StCu	10	–	10	*
Falmouth (Pendennis)	1026·7	+3	NNE	1	o	49	75	8	4000	StCu	10	–	10	*
Plymouth (Cattewater)	1026·3	0	N	1	o	49	75	6	4000	StCu	10	–	10	0
Portland Bill	1025·4	+3	NW	3	bc+	48	85	7	–	–	0	ACu	6	*
Southampton (Calshot)	1025·[illegible]	0	NW	3	c–	48	85	6	4000	StCu	3	ACu	7	0
Dungeness	1023·0	+1	N	2	o	48	85	6	4000	StCu	10	–	10	*
Jersey 7h / Guernsey 1h	1025·1	0	N	3	o	50	85	7	4000	StCu	10	–	10	*

Observations at 1800 G.M.T. 2nd

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	1014·8	+2	NW	5	od.d.	48	92	6	2500	Nb	10	–	10	4
Stornoway	1022·3	+2	–	0	op.	47	97	6	450	St	10	–	10	0
Wick	1018·6	+3	WNW	3	bc–	47	97	8	2500	Cu	3	ACu	5	0
Castlebay	1024·6	+1	W	4	op.	50	92	6	1500	St	10	–	10	3
Nairn	1021·7	*	–	0	bc–	43	92	8	4000	Cu	4	–	4	*
Aberdeen	1021·5	+1	NW'N	4	o+	45	75	8	2500	StCu	9	–	9	0
Malin Head	1025·4	0	WNW	4	o/r	49	97	7	4000	CuNb	9	–	9	3
Renfrew	1022·9	+1	W	2	[illegible]	45	85	7	4000	StCu	3	ASt	8	*
Edinburgh (Inchkeith)	1022·1	+2	WSW	2	bc/m	44	92	7	–	St	2	CiSt	4	2
Leuchars	1021·7	+3	WNW	1	bc	40	92	8	–	–	0	ASt	4	*
Eskdalemuir	1022·8	+1	NW	3	bc	43	85	8	–	–	0	CiCu	5	*
Tynemouth	1022·3	+1	W	2	b	45	85	7	–	–	0	ACu	2	1
Blacksod Point														
Donaghadee	1025·2	+2	NW	1	c–	49	85	8	4000	CuNb	6	ACu	7	0
Birr Castle	1027·8	*	W	1	o	49	85	6	2500	StCu	9	–	9	*
Holyhead	1025·6	+1	NWW	4	o	50	92	8	1500	StCu	10	–	10	3
Liverpool (Bidston)	1024·9	+1	WNW	4	o/r	47	97	8	1500	CuNb	10	–	10	4
Chester (Shotwick)	1025·0	+1	WNW	4	o	49	85	6	1500	StCu	10	–	10	*
Spurn Head	1023·0	+1	W	3	ffo	46	92	3	800	St	10	–	10	2
Nottingham	1024·0	*	WNW	3	o	50	85	6	–	–	0	ACu	10	*
Cranwell	1024·0	+1	W'N	3	mmo	46	97	4	2500	St	10	–	10	*
Gorleston	1023·3	0	W	2	mmo	45	85	6	–	–	0	ACu	9	0
Valencia (Cahirciveen)	1029·3	+1	W'N	1	o	49	65	8	2500	St	10	–	10	0
Roches Point														
Pembroke (St. Ann's H.)	1027·2	+2	NNW	2	o	43	75	8	4000	StCu	10	–	10	3
Ross-on-Wye	1025·1	+1	WSW	1	o	49	85	7	2500	St	10	–	10	*
Benson	1024·8	+1	WNW	1	o	46	92	6	–	St	10	–	10	*
Andover	1025·4	0	W'N	3	od.	45	92	5	800	Nb	10	–	10	*
S. Farnborough	1013·4	+1	WNW	2	odo	45	92	6	1500	St	10	–	10	*
London (Kew Obsy.)	1024·5	0	W	2	o	46	85	5	2500	StCu	10	–	10	*
Croydon	1024·2	0	W	1	o	45	85	4	2500	StCu	5	ACu	9	*
Clacton-on-Sea	1023·4	0	W	2	mmo	4[illegible]	92	4	7200	StCu	10	–	10	0
Shoeburyness	1023·9	0	–	0	o+	44	97	3	2500	St	10	–	10	*
Grain	1024·3	0	W	3	o	42	97	5	–	–	0	ACu	10	0
Lympne	1024·7	0	WNW	2	o	43	92	3	–	–	0	ASt	10	*
Scilly (St. Mary's)	1027·0	0	N'W	3	o–	50	85	8	4000	StCu	9	–	9	3
Falmouth (Pendennis)	1027·2	0	N	2	o	49	75	7	4000	StCu	10	–	10	0
Plymouth (Cattewater)	1026·5	0	–	0	o	49	85	7	1500	StCu	10	–	10	0
Portland Bill	1025·9	+2	NNW	3	o+	48	85	7	–	–	0	ASt	10	2
Southampton (Calshot)	1025·7	+1	W'N	1	o	45	85	7	4000	StCu	10	–	10	0
Dungeness	1024·1	+2	N	1	o	43	97	6	4000	StCu	10	–	10	2
Jersey 7h / Guernsey 1h	1025·3	0	N	3	c+	47	85	7	–	–	0	ACu	7	3

London Observations. 24 Hours ended 0900 G.M.T. 3rd (Kew / Croydon: 24 hours ended 0700)

London Observations.	Weather Morning.	Weather Afternoon.	Weather Night.	Temp. Max. °F.	Temp. Min. °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)
Kew	om.bcm	bcm.om	om.omw	*	*	43	–	[illegible]	1·2	*	*
Croydon	om.f.m	om.cm	omm	*	*	42	–	–	0·4	*	*
Greenwich (Royal Obsy.)	om	om	om	48	45	39	–	–	0·0	82	83
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	[illegible]
Westminster (St. James' Pk.)	*	*	*	450	49	41	–	–	0·0	69	[illegible]
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	0·4	*	*
Camden Square.	bc	bc	*	50	42	40	–	–	*	*	84
Kensington Palace	o	o	*	51	44	45	–	–	*	85(18h)	79
Hampstead Observatory	*	*	*						1·1	*	

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1600 G.M.T. ....

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

Pole Star Record at Greenwich Obsy.

Exposure from ....h......m. to ....h......m.

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

Code for State of Ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1800 reports (Hoar frost in 0400 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).

Radio Disturbances (Atmospherics) at Croydon.¹

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C,C₁	5	–	170
18h.	C₁C₂	6	–	165
01h.	C₁C₂	6	–	80
07h.	C₁C₂	6	–	25

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom. 3rd & 4th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·45 / 7·46	11·43 / 11·43	3·41 / 3·40
Greenwich	7·48 / 7·49	11·50 / 11·50	3·52 / 3·52
Wick	8·41 / 8·43	12·2 / 12·2	3·23 / 3·22
Valencia	8·31 / 8·32	12·31 / 12·31	4·31 / 4·30

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers. r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix ₀ indicates slight and repetition of letters continuity, thus :—

R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

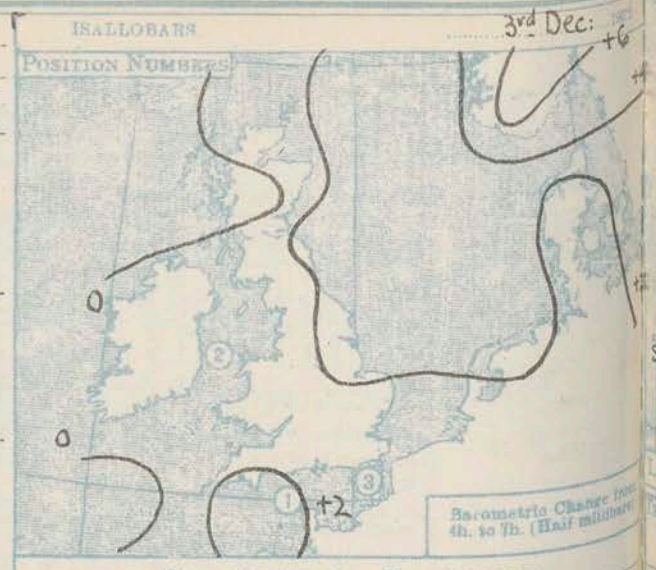
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

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.

¹ For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 2nd	WEATHER. 13h.-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.† Night. 18h.-7h. mm.	RAINFALL.† Precipitation began.	RAINFALL.† Precipitation began.	SUN. % Hours.
Lerwick	omd	omd	omd	cd	49	47	•	1	1	<0800	<2100	0·0
Stornoway	oo	p	c	oo	50	45	•	1	–	–	–	0·0
Wick	op.d	b-bc	opod	oo	50	44	•	0·2	trace	<0800	2400	•
Castlebay	copcp	op					•	0·1		–		
Nairn	cg	cbc	bc.cg	cg.	49	43	•	–	–	–	–	0·7
Aberdeen	ocbc	bcco	o.c.	c.o	51	46	42	–	–	–	–	1·4
Malin Head	coiwm	oimd	oimd	oo	50	48	•	1	0·3	13·30	<2100	0·0
Renfrew	oc	ococ	cmt.om	ofmw	50	33	26	–	–	–	–	0·1
Edinburgh (Inchkeith)	bcz	cz	czz	fomi	49	40	37	–	trace	–	–	2·1
Leuchars	c	b-bc	oo	oo	50	34	21	–	–	–	–	4·1
Eskdalemuir	bc	cbc	b.bc.o	ok	48	27	21	–	–	–	–	1·0
Tynemouth	m	bcm	bwbom	cm	50	39	35	–	–	–	–	•
Blacksod Point ...							•					•
Donaghadee	bc	co	iD	id.	51	47	•	trace	0·4	09·00	2400	•
Birr Castle ...	odo	o			51			–		–		
Holyhead	or.oo	oo	od.oo.	oo	50	49	47	trace	0·1	09·00	<2100	0·0
Liverpool (Bidston) ...	od	op	oo		49	45	43	0·4	–	11·00	–	0·0
Chester (Shotwick) ...	oirm om	om	o·om	o·oprd.	51	46	44	0·1	0·4	<0800	0230	•
Spurn Head	m	fbifo	om.	oo	?	44	•	–	–	–	–	0·0
Nottingham	m	oo	o	oo	50	46	43	trace	–	<0800	–	0·0
Cranwell	mm	mm	om.	oo	47	43	41	trace	–	–	–	0·0
Gorleston	cir.	om	om·ofe	ofe	48	44	42	0·3	–	<0800	–	0·1
Valencia (Cahirciveen)	o	o	o	oo	50	44	41	–	trace	–	–	0·0
Roches Point ...	–						•					•
Pembroke (St. Ann's H.)	oo	oo	oo	oprgv	51	48	•	–	trace	–	0330	0·0
Ross-on-Wye	oro	oo	oid.	o.c.o	49	45	38	–	–	–	–	0·0
Benson...	co	o	o	o	47	44	42	–	–	–	–	•
Andover	co	ododom	ododom	o	49	43	41	trace	trace	17·30	<2100	2·2
S. Farnborough ...	omc	omoro	od	o	49	43	41	–	trace	–	<2100	0·5
London (Kew Obsy.)...	ombom	bcmom	om.omw	omw.om	49	46	43	–	trace	–	–	1·2
Croydon	omfm	omcm	omm.	omm	49	45	42	–	–	–	–	0·4
Clacton-on-Sea ...	cogm	ogm	ogm	ogmp	47	43	39	–	0·3	–	0230	0·0
Shoeburyness... ...	c	bmom	o	o	49	42	39	–	trace	–	–	0·0
Grain	oomm	ocomm	omc.om	o. om	48	39	33	–	–	–	–	0·0
Lympne	m	ocomf	o.c.bo.of	of.m	46	41	37	–	trace	–	–	0·0
Scilly (St. Mary's) ...	oo	oc	oo	oo	52	48	•	–	–	–	–	0·0
Falmouth (Pendennis)	o	o	oo		50	47	•	–	–	–	–	0·2
Plymouth (Cattewater)	om	om						–		–		
Portland Bill	bcc	co	oo	oo	50	44	•	–	–	–	–	•
Southampton (Calshot)	c	oo	omid	oo	49	45	44	–	trace	–	<2100	0·8
Dungeness	oo	oo	c	c	48	42	•	–	–	–	–	•
Jersey 7h. / Guernsey 1h.	oco	obcc	c.o.bo	o.c.o	51	44	•	–	–	–	–	0·6



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure
2	2nd 1000	Anglia	WNW	4	ogc.	52	49	7
1	2nd 1300	Reindeer	N	3	cot	50	53	6
3	3rd 0300	Brighton	NW	3	co	46	49	2

GENERAL INFERENCE.

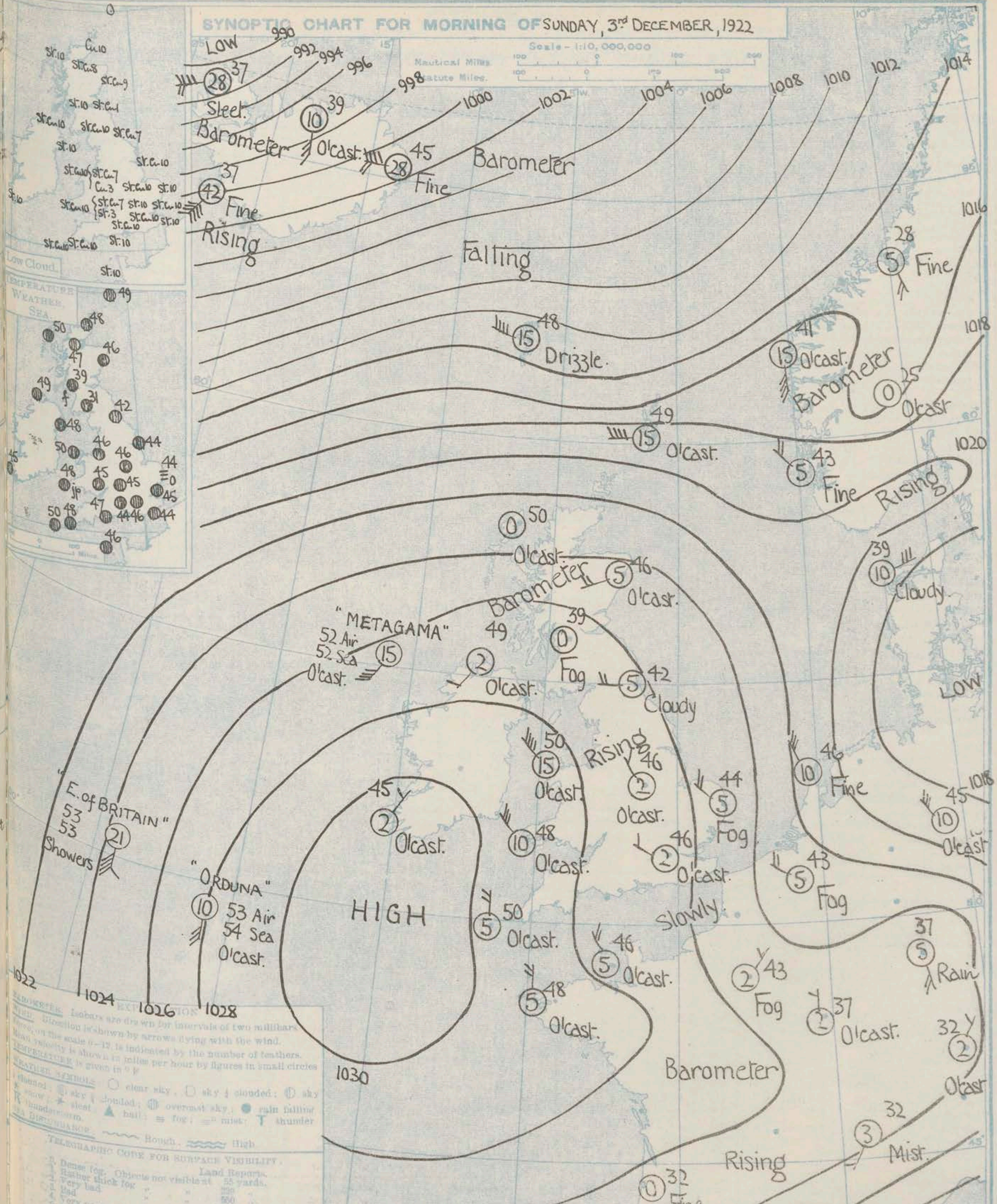
The anticyclone centred off the southwest coasts persists and weather will continue mild and cloudy generally. Some further slight rain is probable, more particularly in the northern districts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday, 3rd December, 1922.	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	Light NW. to N. winds; cloudy; mist in places; rather mild.	Similar conditions are likely to persist beyond the 24 hours.
9. N. Midlands 10. N.E. England 11. E. Scotland	Light westerly winds; cloudy, perhaps slight rain in places; some mist; rather mild.	
12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly SW, light or moderate; cloudy, slight rain in places; some mist; rather mild.	

A.G.B.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.30 G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.



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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Sunday, 3rd December, 1922. No. 337.

Observations at 0100 G.M.T. 3rd.

STATIONS	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1018.0	+2	WNW	4	o/r	48	92	6	–	–	0	aSt	10	•
Stornoway	1024.3	0	–	0	o	•	•	5	•	•	•	•	•	•
Wick	1021.5	+2	W	4	odo	47	97	8	1500	St	8	aSt	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1026.5	0	W	1	o/r	50	85	8	5700	St Cu	10	–	10	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1024.5	+2	WSW	2	mmbc	41	97	5	–	St Cu	1	Ci Cu	6	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1024.5	+2	W	1	b	41	92	6	–	–	0	–	0	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1027.1	+4	NW'N	4	o-	49	97	8	4000	St Cu	10	–	10	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1023.9	0	WNW	2	o/f	45	92	7	4000	St Cu	10	–	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1025.4	+2	NNW	1	o	44	97	5	1500	St	10	–	10	•
Gorleston	1023.5	0	NW'W	2	ffo	45	97	3	4000	St	10	–	10	•
Valencia (Cahirciveen)	1031.5	+5	–	0	ot	48	85	8	–	St Cu	10	–	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1028.1	+1	NW	2	o	49	85	8	4000	St Cu	10	–	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	48	•	•	•	•	•	•	•	•
Croydon	1026.2	+1	NW'N	2	o	46	85	6	2500	St	10	–	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1025.2	+2	NW'N	3	ffo	42	92	3	1500	St	10	–	10	•
Scilly (St. Mary's)	1029.1	+2	NE	2	o	50	75	8	4000	St Cu	10	–	10	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1026.6	+1	N	3	ot	47	85	6	450	St	10	–	10	•
Southampton (Calshot)	1026.9	+2	NW	2	o/r	47	85	6	2500	St	10	–	10	•
Dungeness	1025.2	+1	NW	2	o	44	97	6	2500	St	10	–	10	•
Jersey 7h / Guernsey 1h	1026.8	+2	N	2	c	48	85	7	–	–	0	aSt	8	•

Observations at 0700 G.M.T. 3rd.

STATIONS	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1019.6	+2	W	4	o/r	49	85	7	–	–	0	aSt	10	3
Stornoway	1023.2	0	–	0	o	50	85	6	800	St	10	–	10	0
Wick	1022.2	+1	W	2	o	48	92	8	4000	Cu	10	–	10	0
Castlebay														
Nairn	1024.1	•	–	0	ct	47	85	8	4000	St Cu	8	–	8	•
Aberdeen	1024.4	0	WSW	2	o	46	86	7	4000	St Cu	9	–	9	0
Malin Head	1027.0	0	SW	1	o	49	85	8	5700	St Cu	10	–	10	3
Renfrew	1026.6	+1	–	0	mo-	39	97	4	1500	St	10	–	10	•
Edinburgh (Inchkeith)	1026.8	+2	W	1	mmo	41	97	6	–	St Cu	1	aSt	10	1
Leuchars	1025.2	0	–	0	o	37	97	8	4000	St Cu	10	–	10	•
Eskdalemuir	1027.8	+1	–	0	o	31	92	8	2500	St Cu	10	–	10	•
Tynemouth	1026.1	+2	W	2	ct	42	92	7	4000	St Cu	7	–	7	1
Blacksod Point														
Donaghadee	1027.6	+1	W	1	o/r	48	85	8	4000	St	10	–	10	0
Birr Castle		•												3
Holyhead	1029.6	+1	NW'N	4	o	50	92	8	2500	St Cu	10	–	10	2
Liverpool (Bidston)	1026.9	+1	WNW	2	o	46	97	8	1500	St Cu	10	–	10	•
Chester (Shotwick)	1027.1	+1	NNW	2	odo	47	97	5	1500	St	10	–	10	
Spurn Head	1026.4	+3	WNW	2	o	44	97	6	4000	St Cu	10	–	10	2
Nottingham	1026.6	•	NNW	1	o	46	85	5	2500	St Cu	10	–	10	•
Cranwell	1027.4	+3	NNW	2	o	43	97	6	1500	St Cu	10	–	10	•
Gorleston	1025.1	+1	NW	2	mo-	44	92	6	4000	St	10	–	10	0
Valencia (Cahirciveen)	1030.6	+1	NNE	1	o	45	85	7	4000	St	10	–	10	?
Roches Point														
Pembroke (St. Ann's H.)	1028.8	+1	NW	3	ojp	48	85	8	4000	St Cu	10	–	10	2
Ross-on-Wye	1027.4	+1	–	0	o	45	85	8	2500	St Cu	10	–	10	•
Benson	1026.7	+1	WNW	2	o	45	92	8	–	St	10	–	10	•
Andover	1027.2	0	WNW	3	o	45	97	7	1500	St	10	–	10	•
S. Farnborough	1026.7	+1	W'N	1	o	44	97	6	2500	St Cu	10	–	10	•
London (Kew Obsy.)	1026.9	+1	NW'W	1	o	46	85	6	2500	St Cu	10	–	10	•
Croydon	1026.4	0	WNW	2	o	45	85	5	2500	St Cu	10	–	10	•
Clacton-on-Sea	1025.4	+1	WNW	2	o	45	92	6	7200	St Cu	10	–	10	0
Shoeburyness	1026.1	+1	NW	1	o	45	92	7	1500	St	10	–	10	•
Grain	1026.4	+1	NW	3	o	45	85	6	2500	St Cu	10	–	10	0
Lympne	1025.7	+1	N	2	o	44	85	6	1500	St	10	–	10	•
Scilly (St. Mary's)	1028.8	0	N	2	o	50	75	8	4000	St Cu	10	–	10	2
Falmouth (Pendennis)	1029.6	+2	N	1	o	48	86	8	4000	St Cu	10	–	10	0
Plymouth (Cattewater)														
Portland Bill	1027.2	+2	N	2	o	47	85	7	450	St	10	–	10	2
Southampton (Calshot)	1027.5	+1	NNW	3	o	46	97	7	4000	St Cu	10	–	10	0
Dungeness	1025.3	+1	N	3	o	45	97	6	2500	St	10	–	10	3
Jersey 7h / Guernsey 1h	1027.4	0	NNW	2	o	46	85	7	1500	St	10		10	0

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Saturday, 2nd Dec.

STATIONS	Weather Fore-noon	Weather After-noon	Temp. Min. Night 1st-2nd °F.	Temp. Max. Day 2nd °F.	Rainfall† Night 17h.-9h. 1st-2nd mm.	Rainfall† Day 9h.-17h. 2nd mm.	Sunshine hr.	Sunshine Sunrise to Sunset 2nd hr.
Banff								
Montrose	–	–	40	49	0.5	–		3.9
Llandudno	ro	oc	42	49	0.7	–		0.0
Colwyn Bay	cd	cd	47	49	–	0.3		0.0
Rhyl	op	op	46	49	0.7	0.4		0.0
Southport	oo	co	43	49	0.4	–		0.1
Blackpool	oc	o	45	49	0.2	–		0.4
Harrogate	oc	oo	38	48	–	–		0.7
Skegness	mo	om	39	47	–	0.1		0.0
Aberystwyth	roc	o	46	50	0.5	–		0.0
Bath	mo	om	36	49	–	–		0.0
Leamington Spa								
Lowestoft	oc	oido	40	47	0.9	–		0.1
Felixstowe	cmo	mom	39	47	0.4	–		1.1
Southend	fo	om	40	49	0.2	–		0.2

STATIONS	Weather Fore-noon	Weather After-noon	Temp. Min. Night 1st-2nd °F.	Temp. Max. Day 2nd °F.	Rainfall† Night 17h.-9h. 1st-2nd mm.	Rainfall† Day 9h.-17h. 2nd mm.	Sunshine hr.	Sunshine Sunrise to Sunset 2nd hr.
Paignton	obc	com	44	51	–	–		0.0
Ilfracombe	o	o	47	49	–	–		0.0
Bude	o	o	41	51	–	–		0.0
Penzance	oc	bcoc	47	52	–	–		0.8
Falmouth Observatory	c	om	43	51	0.1	–		0.1
Torquay	o	c	41	51	–	–		0.4
Weymouth	ccc	cl	40	50	–	–		0.5
Bournemouth	obo	oo	41	50	0.3	–		1.6
Portsmouth (S'thsea)	ocbc	bo	44	49	–	–		0.4
Worthing	oc	c	44	49	–	–		0.1
Brighton	o	o	44	49	0.2	–		0.0
Eastbourne	o	o	44	49	0.1	–		0.0
Hastings	om	omf	42	49	0.8	–		0.0
Folkestone	o	oc	43	49	2	–		0.0
Tunbridge Wells	om	ocm	41	48	0.6	–		0.0
Ramsgate	obc	bcco	41	46	0.4	–		0.5
Margate	ocbc	o	42	46	0.2	–		0.6
Deal	moc	cc	40	47	0.7	–		0.5

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22292 MONDAY, 4TH December 1922. Page 1.

STATIONS.	Observations at 1300 G.M.T. 3rd: 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	State of ground.	Observations at 1800 G.M.T. 3rd: Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1019.5	-1	WSW	4	0d+	49	92	6	2500	Nb	10	-	10	*	1020.5	+2	WNW	5	c/r	46	92	7	-	-	0	A.St	8-	1
Stornoway	1023.5	0	SSW	4	0	51	92	6	800	St	10	-	10	*	1023.5	0	SSW	1	orr	50	97	5	450	St	10	-	10	0
Wick	1023.4	0	SW	2	0	50	85	9	5700	St.Cu	8	Cu	10	*	1023.3	0	SW	3	oRR	48	97	8	800	St	10	-	10	0
Castlebay														*														
Nairn														*														
Aberdeen	1026.0	0	WSW	1	b-	50	75	7	4000	St.Cu	1	A.Cu	2	0	1026.3	+	SW	1	c	49	85	8	1500	St	8	-	8	*
Malin Head	1028.3	+1	WSW	2	0	49	85	8	5700	St.Cu	9	-	9	*	1028.4	0	SW	3	0	48	85	8	5700	St.Cu	9	-	9	4
Renfrew	1028.1	0	-	0	mo-	45	92	4	2500	St.Cu	10	-	10	*	1028.8	+1	WSW	3	0	49	85	6	2500	St.Cu	10	-	10	*
Edinburgh (Inchkeith)	1027.1	+1	WSW	1	mo	44	92	5	-	St.Cu	10	-	10	*	1027.6	+1	W	2	fo+	46	85	3	-	St.Cu	5	A.St	10	2
Leuchars	1026.7	0	WSW	3	c	44	85	8	5700	St.Cu	6	A.Cu	8	1	1026.7	+1	W	2	0	44	92	7	4000	St.Cu	8	A.St	10	*
Eskdalemuir	1029.1	+1	-	0	0	41	97	7	1500	St.Cu	10	-	10	1	1029.6	+1	-	0	0	43	92	6	2500	St.Cu	10	-	10	*
Tynemouth	1027.7	+1	W	1	c	44	92	5	4000	Cu	4	Ci.Cu	7	*	1028.2	0	W	2	0	45	92	6	4000	St.Cu	10	-	10	0
Blacksod Point														*														
Donaghadee	1029.3	+2	WNW	2	0-	50	85	8	5700	St.Cu	9	-	9	*	1029.7	+1	WNW	1	0+	47	92	7	-	-	0	A.St	10	0
Birr Castle														*														*
Holyhead	1029.9	+1	NW'N	4	0	50	97	8	4000	St.Cu	10	-	10	0	1031.4	+2	WNW	4	0	50	92	8	4000	St.Cu	10	-	10	1
Liverpool (Bidston)	1028.9	+1	WNW	3	0	47	97	7	2500	St	10	-	10	*	1030.0	+2	WNW	1	0	47	97	7	1500	St	10	-	10	2
Chester (Shotwick)	1029.0	0	NW	3	0	49	92	7	1500	Nb	10	-	10	1	1030.3	+2	NW	2	o/r	47	92	5	2500	St	10	-	10	*
Spurn Head	1027.8	+1	NW	2	omw	46	92	4	4000	St.Cu	10	-	10	*	1029.1	+2	NW'W	2	o/f	45	92	5	-	-	0	A.St	10	2
Nottingham	1028.8	*	-	0	0	48	75	4	1500	St	10	-	10	*	1029.7	*	W	1	o/f	45	92	5	2500	St	10	-	10	*
Cranwell	1028.8	+	WNW	1	0	46	92	6	2500	St.Cu	10	-	10	1	1030.0	+2	WNW	1	mo-	45	92	5	2500	St.Cu	10	-	10	*
Gorleston	1027.1	+2	N'W	3	mo+	48	85	6	2500	St	10	-	10	*	1025.9	+1	NW	2	mo	46	85	5	2500	St	10	-	10	0
Valencia (Cahirciveen)	1031.0	0	SSE	3	0	51	85	7	1500	St.Cu	9	-	9	1	1032.1	+1	SSE	1	C	47	92	6	2500	St.Cu	7	-	7	1
Roches Point														*														
Pembroke (St. Ann's H.)	1030.6	+1	NW	2	0	50	85	8	4000	St.Cu	10	-	10	*	1031.3	+1	N	2	0	49	85	8	4000	St.Cu	10	-	10	2
Ross-on-Wye	1029.1	+1	NW'N	2	0	49	85	8	2500	St	10	-	10	0	1030.1	+1	W	1	0	46	92	7	1500	St	10	-	10	*
Benson	1029.1	+1	NW	2	0	46	85	8	-	St.Cu	10	-	10	1	[illegible]	+1	[illegible]	1	0	46	85	7	-	St	10	-	10	*
Andover	1029.1	+1	NNW	2	0	47	92	7	1500	St	10	-	10	0	1030.1	+2	-	0	0	45	92	7	1500	St	10	-	10	*
S. Farnborough	1029.9	+1	NW	1	mmo	47	85	5	1500	St	10	-	10	1	1030.0	+2	-	0	0	44	92	6	-	St	10	-	10	*
London (Kew Obsy.)	1029.3	+1	-	0	mmo	48	75	5	2500	Nb	3	A.St	10	1	1030.3	+2	NW	1	0	47	75	6	2500	St	8	A.St	10	*
Croydon	1028.8	+2	-	0	0	46	75	4	2500	St.Cu	10	-	10	1	1029.9	+1	-	0	0	45	85	3	2500	St	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.3	+2	NW	2	0	47	92	5	7200	St.Cu	10	-	10	0
Shoeburyness	1028.2	+2	NNW	1	0	48	85	7	2500	St	10	-	10	*	1029.6	+2	NNW	1	0	46	92	7	1500	St	10	-	10	*
Grain	1028.6	+1	NW	2	0	48	85	6	4000	St.Cu	10	-	10	1	1029.9	+2	NW'N	2	0	45	92	6	2500	St.Cu	10	-	10	0
Lympne	1028.2	0	N	3	0	47	75	6	4000	St.Cu	10	-	10	2	1029.1	0	N	2	0	45	85	6	2500	St	10	-	10	*
Scilly (St. Mary's)	1030.4	+1	NW	3	0	51	75	8	4000	St.Cu	10	-	10	*														
Falmouth (Pendennis)	1030.1	+2	NNW	2	0	50	85	7	4000	St.Cu	10	-	10	*	1031.8	+2	NNE	3	0	49	85	7	4000	St.Cu	10	-	10	0
Plymouth (Cattewater)	1030.1	0	-	0	mo-	49	92	6	2150	St.Cu	10	-	10	0	1031.1	+2	-	0	0-	49	85	7	1500	St	10	-	10	0
Portland Bill	1028.7	+2	-	0	0	49	85	6	450	St	10	-	10	*	1029.4	+1	N	2	0	46	85	6	450	St	10	-	10	1
Southampton (Calshot)	1029.2	+1	NW	2	mo+	47	92	5	1500	St.Cu	10	-	10	0	1030.3	+1	N	1	0	46	92	7	4000	St.Cu	10	-	10	0
Dungeness	1027.9	+2	N	2	0	48	85	6	4000	St.Cu	10	-	10	*	1029.3	+2	N	2	0	47	92	7	-	-	0	A.St	10	2
Jersey 7h / Guernsey 1h	1029.4	+0	NW	2	o/f	50	92	8	7500	St.Cu	10	-	10	*	1029.6	0	N	2	0	49	92	7	1500	St.Cu	10	-	10	0

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 4th								YESTERDAY.		TO-DAY.
Kew } Croydon } 24 hours ended 0700	omom	omw	omw	*	*	41	-	-	0.0	*	*
Greenwich (Royal Obsy.)	omoz	of	ofm	*	*	37	-	-	0.0	*	*
City (Bunhill Row)	0	om	om	48	43	38	-	-	0.0	70	86
Westminster (St. James' Pk.)	*	*	*	*	*	*	-	-	0.0	*	*
Regent's Pk. (Botanic Gdns.)	*	*	*	49	43	39	-	-	0.0	67	87
Camden Square	*	*	*	*	*	*	*	*	0.0	*	*
Kensington Palace	0	C	*	48	41	41	-	-	*	*	89
Hampstead Observatory	0	0	*	48	43	39	-	-	*	73(18h)	85
	*	*	*	46	42	35	-	-	0.0	*	86

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1600 G.M.T. 3rd

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

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

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	0.0	-
δ Ursae Minoris	13.45	0.0	-

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1500 reports (Near Frost in 0900 and 0700 reports)
7 = Snow (thin layer, not continuous).
8 = Snow (deep, impeding traffic, usually a continuous layer)
9 = Glazed roads (ice on roads from freezing or actual rain)

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	65°
18h.	C	4	-	-
01h.	C	5	-	35
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

4th & 5th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.46	11.43	3.40
	7.47	11.44	3.40
Greenwich	7.49	11.50	3.52
	7.46	11.51	3.52
Wick	8.43	12.2	3.22
	8.45	12.3	3.21
Valencia	8.37	12.31	4.30
	8.33	12.32	4.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
ro/ro = continuous light rain.

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.

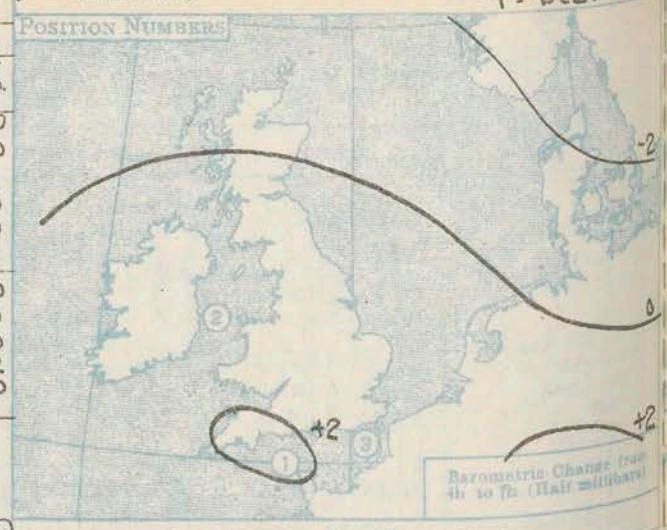
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

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.

† For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 3rd	13h.-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.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 3rd Hours.
Lerwick	od	od	b	bc	50	39	•	1	-	0900	-	0.0
Stornoway	oo	rr	r-d	p	51	49	•	3	5	1630	-	0.0
Wick	oo	oRR	rrdod	odod	51	45	•	2	2	1730	<2100	•
Castlebay			o	op	51	50	•		0.3	-	-	0.0
Nairn	cg	cg	cg bc	bc	51	47	•	-	-	-	-	1.0
Aberdeen	clzb	bbco	om bc	bcem	51	42	30	-	-	-	-	3.9
Malin Head	o	coe	coc	bcog	49	44	•	-	-	-	-	0.0
Renfrew	ofm	omm	ombc	bcm	50	45	39	-	-	-	-	0.0
Edinburgh (Inchkeith)	omm	f	mm	oo	46	45	41	-	-	-	-	0.0
Leuchars	oe	oo	e	e	45	41	35	-	-	-	-	0.2
Eskdalemuir	oxo	oo	o	oc	40	41	37	-	-	-	-	0.0
Tynemouth	cm	om	com	bcm	45	42	37	-	-	-	-	•
Blacksod Point							•					•
Donaghadee	co	bc	c	c	50	45	•	-	-	-	-	•
Birr Castle								-				
Holyhead	oo	oo	oo	o	51	47	47	trace	-	-	-	0.0
Liverpool (Bidston)	oo	oo	o	o	48	45	43	-	-	-	-	0.0
Chester (Shotwick)	odom	oidom	odom	om	49	45	41	trace	trace	<0800	<2100	•
Spurn Head	om	oo	f-m	ffoom	46	42	•	-	-	-	-	0.0
Nottingham	oom	cm	o	om	49	44	41	-	-	-	-	0.0
Cranwell	oo	om	om	oo	47	43	41	-	-	-	-	0.0
Gorleston	om	om	om	om	48	43	42	-	-	-	-	0.0
Valencia (Cahirciveen)	oo	odco	o					0.5		-		
Roches Point							•					•
Pembroke (St. Ann's H.)	oo	oo	oo	c	51	45	•	-	-	-	-	0.0
Ross-on-Wye	oo	oo	oido	go	49	44	42	-	trace	-	2200	0.0
Benson	o	ococc	o	o	48	40	38	-	-	-	-	•
Andover	oo	oo	o	o	47	42	40	-	-	-	-	0.0
S. Farnborough	om	omo	om	om	46	39	36	-	-	-	-	0.0
London (Kew Obsy.)	omom	omomm	omm	omm	48	43	41	-	-	-	-	0.0
Croydon	omoz	of	ofm	om	46	42	37	-	-	-	-	0.0
Clacton-on-Sea	ogm	ogm	ogm	ogm	48	43	42	-	-	-	-	0.0
Shoeburyness	o8	o	o	om	48	42	41	-	-	-	-	0.0
Grain	oo	oom	omm	omm	48	42	41	-	-	-	-	0.0
Lympne	form	om	om	ommf	48	42	41	-	trace	-	-	0.0
Scilly (St. Mary's)	oo		oo	oo	52	49	•		-		-	0.0
Falmouth (Pendennis)	o	o	o	o	51	47	•	-	-	-	-	0.0
Plymouth (Cattewater)	om	om	o	o	51	48	45	-	-	-	-	0.0
Portland Bill	oo	oo	oo	oo	52	44	•	-	-	-	-	•
Southampton (Calshot)	omm	oo	oo	oo	48	43	41	-	-	-	-	0.0
Dungeness	oo	oo	oo	oo	49	43		-	-	-	-	•
Jersey 7h. / Guernsey 1h.	oodo	o	o	o	51	45	•	0.2	-	0900	-	0.0



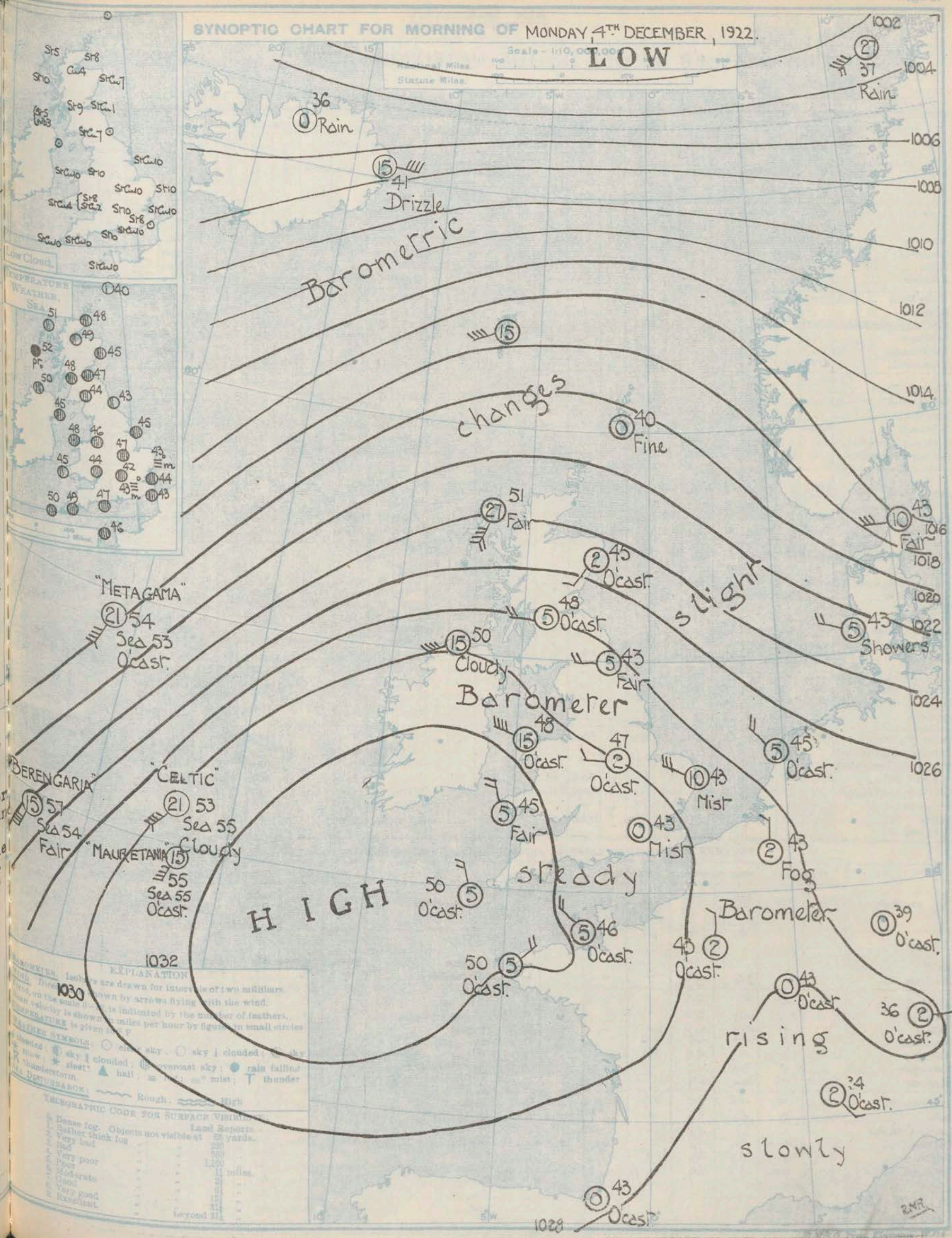
Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	3rd 1010	Anglia	W	4	0	49	52	8
3	4th 0300	Arundel	NE	2	b	48	50	5

GENERAL INFERENCE.

The anticyclone maintains its position off the southwest coast and temperature is above normal over a wide area to the West and North. Mild cloudy weather will continue generally over these Islands for two or three days, with occasional rain or drizzle in Scotland and Northwest Ireland, but no appreciable amounts of precipitation farther South.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Monday 4th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light breezes between W and N; cloudy; some mist; rather mild.	Mild generally for two or three days, with occasional rain or drizzle in Scotland and N.W. Ireland but no appreciable amounts of precipitation farther South.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind westerly, light or moderate; cloudy; mist in places; rather mild.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind southwesterly, fresh or strong at times; cloudy, occasional light rain; visibility moderate or good; mild.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 to 13	


SYNOPTIC CHART FOR MORNING OF MONDAY, 4TH DECEMBER, 1922.
LOW
HIGH
Barometric changes slight
Barometer steady
Barometer rising slowly
"METAGAMA"
"BERENGARIA"
"CELTIC"
"MAURETANIA"
Rain
Drizzle
Fine
Fair
O'cast.
Showers
Cloudy
Mist
Fog
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 4th December 1922. No. 338

Observations at 0100 G.M.T. 4th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1022.4	+2	WNW	2	b+	44	85	7	-	-	0	Ac	2	•
Stornoway	1025.0	+2	W	2	o f+	•	•	4	•	•	•	•	•	•
Wick	1023.6	+2	WNW	1	odq	47	97	7	460	Sr	10	-	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1029.3	+1	SSW	2	b-	47	92	8	-	-	0	Ac	3	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1027.7	+2	SW	3	bc/f	45	92	7	-	Sr	6	-	6	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1028.7	0	W	1	c	45	97	6	-	-	0	A Sr	7	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1032.0	+1	WNW	3	o	50	85	8	-	-	0	Ac	10	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1029.4	0	WSW	2	mmo	44	92	4	800	Sr	7	Ac	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1029.9	0	WSW	3	o	44	92	5	2500	Sr	10	-	10	•
Gorleston	1029.8	+1	WNW	3	mmo	44	92	4	2500	Sr	10	-	10	•
Valencia (Cahirciveen)	1032.7	0	NW	1	oo	49	97	8	-	-	0	A Sr	9	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1032.3	0	NW	2	o	49	85	8	4000	Sr Cu	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	43	•	•	•	•	•	•	•	•
Croydon	1030.8	0	-	0	0	43	85	5	2500	Sr	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1030.3	+1	NW'N	4	o	43	92	6	1500	Sr	10	-	10	•
Scilly (St. Mary's)	1032.3	+1	N'W	2	o	50	85	8	4000	Sr Cu	10	-	10	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1031.1	+2	N	2	o	47	85	6	450	Sr	10	-	10	•
Southampton (Calshot)	1031.1	0	-	0	o	44	92	7	4000	Sr Cu	10	-	10	•
Dungeness	1030.5	+1	N	2	o	44	97	6	-	-	0	A Sr	10	•
Jersey 7h / Guernsey 1h	1031.2	+1	N	1	o	48	85	7	5700	Nb	3	A Sr	10	•

Observations at 0700 G.M.T. 4th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1021.1	-1	-	0	b	40	85	7	-	-	0	Ac	3	0
Stornoway	1022.4	-1	SSW	6	bc/r	51	92	6	800	Sr	5	-	5	4
Wick	1022.6	-1	SW	3	c/r	48	92	8	800	Sr	8	-	8	0
Castlebay	1025.9	0	WSW	4	opr	52	97	6	1500	Sr	10	-	10	4
Nairn	1024.2	•	W	3	bc	49	85	8	4000	Cu	4	-	4	•
Aberdeen	1025.7	0	SW	1	o	45	92	6	4000	Sr Cu	7	Ci Sr	9	0
Malin Head	1028.9	0	WSW	4	c+	50	92	8	4000	Sr	8	-	8	4
Renfrew	1028.9	0	W	2	o	48	92	6	2500	Sr	9	-	9	•
Edinburgh (Inchkeith)	1027.2	0	W	4	o+	47	85	7	-	Sr Cu	1	A Sr	10	3
Leuchars	1026.4	0	SW	4	o	45	92	8	2500	Sr Cu	3	Ci	4	•
Eskdalemuir	1029.4	0	W	2	c	44	85	6	2500	Sr Cu	7	Ci Sr	7	•
Tynemouth	1028.2	0	W	2	bc	43	97	6	-	-	0	Ac	5	1
Blacksod Point	1030.3	0	WSW	2	o+	45	97	7	-	-	0	A Sr	10	0
Donaghadee														•
Birr Castle														•
Holyhead	1031.8	0	WNW	4	o	48	97	8	4000	Sr Cu	10	-	10	1
Liverpool (Bidston)	1030.9	0	W	3	o	46	92	7	2500	Sr	10	-	10	2
Chester (Shotwick)	1031.1	0	NNW	3	o	46	92	5	1500	Sr	10	-	10	•
Spurn Head	1029.0	0	W	3	o	45	92	5	4000	Sr Cu	10	-	10	•
Nottingham	1030.3	•	W	1	o	47	85	3	2500	Sr Cu	10	-	10	•
Cranwell	1030.2	0	WNW	3	o	45	97	6	2500	Sr Cu	10	-	10	•
Gorleston	1029.3	0	WNW	3	mmo	45	92	4	2500	Sr	10	-	10	0
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	1032.6	0	NNW	2	bc	45	85	8	4000	Sr Cu	4	-	4	•
Ross-on-Wye	1031.6	0	WNW	1	o	44	97	6	2500	Sr	10	-	10	•
Benson	1031.1	0	-	0	o	42	97	6	-	Sr	10	-	10	•
Andover	1031.2	0	N	2	o	45	97	6	1500	Sr	10	-	10	•
S. Farnborough	1031.9	+1	-	0	o	41	92	5	2500	Sr	10	-	10	•
London (Kew Obsy.)	1031.6	0	-	0	mmo	43	85	5	2500	Sr	8	A Sr	10	•
Croydon	1031.1	0	WSW	1	o	43	85	5	2500	Sr Cu	10	-	10	0
Clacton-on-Sea	1031.1	0	NW	1	o	44	92	4	5700	Sr Cu	10	-	10	•
Shoeburyness	1030.6	0	WSW	1	mmo	43	92	4	800	Sr	10	-	10	0
Grain	1031.0	0	WSW	2	o	43	92	6	2500	Sr Cu	10	-	10	•
Lympne	1030.7	+1	NNW	2	o	42	85	3	2500	Sr Cu	10	-	10	2
Scilly (St. Mary's)	1033.4	+1	N'W	2	o	50	75	8	4000	Sr Cu	10	-	10	0
Falmouth (Pendennis)	1033.3	+2	NNE	2	o	49	85	7	4000	Sr Cu	10	-	10	0
Plymouth (Cattewater)	1032.3	+1	NNW	2	o	48	92	8	2500	Sr Cu	10	-	10	0
Portland Bill	1031.1	0	N	2	o	47	85	6	450	Sr	10	-	10	0
Southampton (Calshot)	1031.6	0	NW	2	o	44	97	7	4000	Sr Cu	10	-	10	2
Dungeness	1030.5	0	N	2	o	43	97	6	-	-	0	A Sr	10	0
Jersey 7h / Guernsey 1h	1031.0	0	NW	2	o	46	85	6	2500	Sr Cu	10	-	10	0

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 2-3 °F.	Temperature. Max. Day 3 °F.	Rainfall.† Night 17h.-9h. 2-3 mm.	Rainfall.† Day 9h.-17h. 3 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 2 hr.
Banff								
Montrose	-	-	36	45	-	-		2.8
Llandudno	o	o	43	50	-	-		0.0
Colwyn Bay	c	co	47	50	-	-		0.0
Rhyl	o	o	47	49	0.1	-		0.0
Southport	oco	o	46	48	0.5	-		0.6
Blackpool	cbc	bco	47	49	0.2	-		1.3
Harrogate	o	o	38	47	-	-		0.0
Skegness	omo	of	44	49	-	-		0.0
Aberystwyth	rmo	o	46	50	0.3	-		0.0
Bath	mo	o	45	49	-	-		0.0
Leamington Spa	-	-	38	48	-	-		0.0
Lowestoft	om	omo	44	48	-	-		0.0
Felixstowe	om	om	43	48	0.3	-		0.0
Southend	fo	om	42	49	-	-		0.0

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 2-3 °F.	Temperature. Max. Day 3 °F.	Rainfall.† Night 17h.-9h. 2-3 mm.	Rainfall.† Day 9h.-17h. 3 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 2 hr.
Paignton	omg	ogom	46	51	-	-		0.0
Ilfracombe	o	o	48	50	-	-		0.0
Bude	o	oeoe	45	52	-	-		0.0
Penzance	o	o	46	52	-	-		0.0
Falmouth Observatory	o	om	46	51	-	-		0.0
Torquay	c	c	44	50	-	-		0.0
Weymouth	o	o	46	49	-	-		0.0
Bournemouth	o	o	43	48	-	-		0.0
Portsmouth (S'thsea)	om	om	45	48	-	-		0.0
Worthing	o	o	43	48	-	-		0.0
Brighton	o	o	45	48	-	-		0.0
Eastbourne	o	o	43	48	-	-		0.0
Hastings	omo	om	42	49	-	-		0.0
Folkestone	o	o	40	49	-	-		0.0
Tunbridge Wells	om	om	41	48	-	-		0.0
Ramsgate	o	om	41	47	0.3	-		0.0
Margate	o	o	43	47	0.1	-		0.0
Deal	mro	oom	43	47	trace	-		0.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 22293 TUESDAY 5TH DECEMBER 1922.

Observations at 1300 G.M.T. 4th

STATIONS.	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	State of Ground.
Lerwick	1016·5	-8	WSW	5	od₀	48	97	6	2500	Nb	10	-	10	*
Stornoway	1021·9	-1	WSW	4	op₀	53	92	6	450	St	10	-	10	*
Wick	1020·6	-2	SW	3	0	52	92	9	500	St	6	CiSt	10	*
Castlebay	1025·9	0	SW	5	oDD	51	97	6	800	Nb	10	-	10	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1024·4	-2	SSW	2	bc-	50	85	5	4000	StCu	1	ASt	6	0
Malin Head	1028·9	0	WSW	4	0	51	85	8	5700	StCu	7	ACu	9	*
Renfrew	1028·5	-1	WSW	3	o/r	50	92	6	4500	St	10	-	10	1
Edinburgh (Inchkeith)	1026·9	-2	WSW	4	mmo	48	92	6	—	St	10	-	10	*
Leuchars	1026·4	-3	WSW	3	bc	50	85	7	-	-	0	ASt	6	5
Eskdalemuir	1029·6	-1	SSW	5	0	45	92	7	1500	St	10	-	10	1
Tynemouth	1028·2	0	W	1	bc	48	85	6	-	-	0	CiCu	6	*
Blacksod Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee	1030·2	+1	WSW	1	0	49	92	7	-	-	0	ASt	10	*
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	1032·1	-1	WSW	2	0	49	92	8	1500	StCu	10	-	10	0
Liverpool (Bidston)	1031·4	-1	W	3	0	47	92	8	1500	CuNb	10	-	10	*
Chester (Shotwick)	1031·7	0	WNW	3	0	49	75	7	4000	StCu	10	-	10	1
Sparn Head	1030·2	+1	WNW	3	0	46	85	6	4000	StCu	10	-	10	*
Nottingham	1030·2	*	WNW	3	0+	47	75	6	-	-	0	CiSt	9	*
Cranwell	1030·4	+0	W	2	0	48	92	5	2500	StCu	10	-	10	0
Gorleston	1029·3	0	WNW	1	0	48	75	5	4000	StCu	10	-	10	*
Valencia (Cahirciveen)	1033·9	-1	SSW	2	c-	51	92	8	1500	St	7	-	7	1
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	1033·3	0	NW	3	0	48	75	8	4000	StCu	10	-	10	*
Ross-on-Wye	1032·2	+0	W	2	0	48	75	9	2500	St	10	-	10	0
Benson	1032·3	0	-	0	0	47	85	6	*	StCu	10	-	10	1
Andover	1032·0	0	NNW	1	0	49	75	*	2500	StCu	10	-	10	0
S. Farnborough	1032·1	0	-	0	mmo	47	85	5	1500	StCu	10	-	10	0
London (Kew Obsy.)	1032·0	0	NW	1	0	48	75	5	4000	StCu	8	ASt	10	1
Croydon	1031·7	-0	NW'W	2	f₀	47	85	3	2500	StCu	10	-	10	1
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1031·1	0	NW	3	mmo	48	85	5	1500	St	10	-	10	*
Grain	1031·3	0	WNW	3	mmo	47	85	4	2500	St	10	-	10	1
Lympne	1031·2	-1	NNW	2	mmo	46	85	4	4000	StCu	10	-	10	1
Scilly (St. Mary's)	1034·7	+2	N'E	3	0	50	75	8	4000	StCu	10	-	10	*
Falmouth (Pendennis)	1034·0	0	NNW	2	0	51	85	7	4000	StCu	10	-	10	*
Plymouth (Cattewater)	1033·5	0	NNW	2	0-	50	85	7	4000	StCu	10	-	10	0
Portland Bill	1033·7	+3	NW	2	mmo	50	85	4	450	St	10	-	10	*
Southampton (Calshot)	1032·5	0	NWN	3	mo-	49	85	5	4000	StCu	10	-	10	0
Dungeness	1030·9	0	N	2	0	47	97	6	4000	StCu	10	-	10	*
Jersey 7h }														
Guernsey 1h }	1031·9	0	N	2	b	50	75	7	-	-	0	ACu	1	*

Observations at 1800 G.M.T. 4th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1014·4	0	W	5	o/p	47	85	7	4000	Nb	5	ASt	10	4
Stornoway	1021·7	0	WSW	4	o/r	50	92	6	450	St	10	-	10	3
Wick	1015·3	-1	WSW	1	c	48	92	9	4000	Cu	3	CiSt	8	0
Castlebay	1025·1	-1	W	5	oDD	52	97	5	800	Nb	10	-	10	5
Nairn	1021·1	*	W	4	bc+	51	85	8	4000	StCu	6	-	6	*
Aberdeen	1022·9	-1	WSW	3	o+	52	85	7	2500	StCu	1	ASt	9	0
Malin Head	1028·6	-1	WSW	4	od₀	50	92	7	4000	St	10	-	10	4
Renfrew	1028·2	0	WSW	4	o	50	85	6	2500	St	9	ASt	10	*
Edinburgh (Inchkeith)	1024·6	-3	WSW	5	o/f	49	85	7	*	St	4	ASt	10	4
Leuchars	1024·6	-1	WSW	5	0	50	85	8	4000	StCu	4	ASt	10	*
Eskdalemuir	1028·3	-1	SW'W	4	0	48	85	6	2500	StCu	10	-	10	*
Tynemouth	1027·8	0	W	2	bc	48	92	6	4000	St	1	ASt	4	0
Blacksod Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee	1029·4	0	WSW	1	c-	49	85	7	-	-	0	ASt	8	0
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	1032·0	0	W'S	4	0	49	85	8	1500	StCu	10	-	10	2
Liverpool (Bidston)	1031·4	0	W	4	0	47	85	7	2500	St	10	-	10	4
Chester (Shotwick)	1031·5	0	WNW	2	0m	48	75	4	4000	StCu	10	-	10	*
Sparn Head	1028·9	-2	W	2	mmo	44	92	5	-	-	0	-	0	2
Nottingham	1030·3	*	W	2	0m	44	92	5	-	-	0	CiSt	9	*
Cranwell	1030·3	0	W	3	mmo	40	97	5	-	-	0	CiSt	3	*
Gorleston	1029·4	0	W	2	mmo	45	97	5	4000	StCu	10	-	10	0
Valencia (Cahirciveen)	1034·2	+1	SSW	2	bc	50	92	8	1500	St	3	-	3	1
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	1033·3	0	W	2	0	47	85	8	800	St	10	-	10	3
Ross-on-Wye	1032·2	0	W'N	2	0	47	85	9	2500	St	10	-	10	*
Benson	1032·0	0	NW	1	0	46	85	6	*	StCu	10	-	10	*
Andover	1032·2	0	W	2	0	45	92	7	2500	StCu	10	-	10	*
S. Farnborough	1032·1	0	-	0	0	46	85	6	1500	StCu	10	-	10	*
London (Kew Obsy.)	1032·0	0	NW	1	0	48	75	6	4000	StCu	10	-	10	*
Croydon	1031·8	+1	WNW	2	0m	47	75	4	2500	St	10	-	10	*
Clacton-on-Sea	1030·7	0	WNW	2	mmo	46	92	4	7200	StCu	10	-	10	0
Shoeburyness	1030·0	0	W	1	mmo	46	92	5	1500	St	10	-	10	*
Grain	1031·6	0	W'N	3	0	46	85	6	2500	St	10	-	10	0
Lympne	1031·5	0	-	0	mmo	44	85	4	1500	StCu	10	-	10	*
Scilly (St. Mary's)	1034·4	+1	NW	2	0	48	92	8	4000	StCu	10	-	10	2
Falmouth (Pendennis)	1034·6	+2	N	1	0	49	75	8	4000	StCu	10	-	10	0
Plymouth (Cattewater)	1033·7	+1	-	0	0	49	75	8	2500	StCu	10	-	10	0
Portland Bill	1033·0	-2	N'W	2	o/f	49	65	6	450	St	10	-	10	1
Southampton (Calshot)	1032·4	0	NW	1	0	46	85	8	4000	StCu	10	-	10	0
Dungeness	1030·9	0	N	2	mmo	46	85	6	-	StCu	10	-	10	2
Jersey 7h }														
Guernsey 1h }	1032·4	0	NW	2	0	48	85	6	1500	St	5	ACu	10	0

LONDON OBSERVATIONS

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %
	24 HOURS ENDED 0900 G.M.T. 5th								YESTERDAY.		TO-DAY.
Kew	0mo/oz	00	0m	*	*	43	-	-	0.0	*	*
Croydon } 24 hours ended 0700	0mf	o/mz	0zom	*	*	44	-	-	0.0	*	*
Greenwich (Royal Obsy.)	0m	0	0	48	45	43	-	-	0.0	72	81
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*	50	45	43	-	-	0.0	68	83
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0.0	*	*
Camden Square	0	0	*	49	?	43	tra	-	*	*	83
Kensington Palace	0	0	*	49	45	42	-	-	*	74(m)	82
Hampstead Observatory	*	*	*	46	43	39	-	-	0.0	*	83

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1600 G.M.T.

South Kensington

Max.	Time.	Min.	Time.
-	-	-	-

Kew Observatory

Max.	Time.	Min.	Time.
0.5	3rd 21h	0.3	3rd 16h.
0.9	4th 10h.		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 4th 17h. 00m. to 5th 06h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13.45	0.0	-
δ Ursae Minoris }	13.45	0.0	-

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1800 reports (Hoar frost in 0100 and 0700 reports).
7 = Snow (high 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	C	5	-	135°
01h.	C	5	6	30°
07h.	C	5	5	45°

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

5th & 6th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.47 / 7.49	11.44 / 11.44	3.40 / 3.39
Greenwich	7.50 / 7.51	11.51 / 11.51	3.52 / 3.51
Wick	8.45 / 8.47	12.3 / 12.3	3.21 / 3.20
Valencia	8.33 / 8.35	12.32 / 12.32	4.30 / 4.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
p precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet t thunder.
v unusual visibility. y dry air.
y 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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

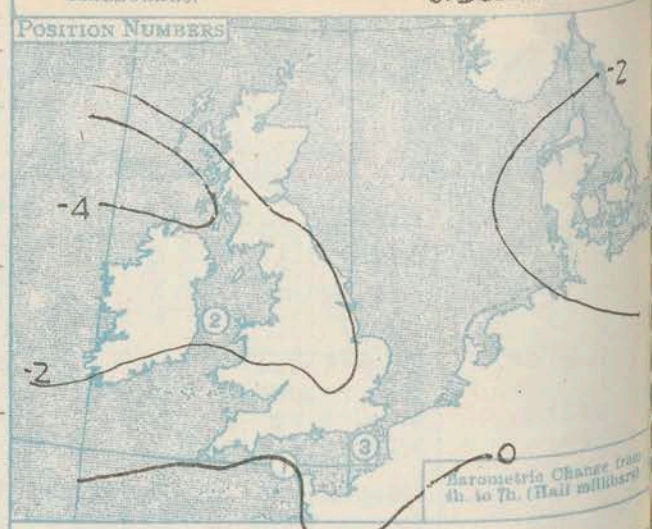
For explanation see introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 4th	13h.-18h. 4th	16h. 4th to 1h. 5th	1h.-7h. 5th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 4th Hours.
Lerwick	om	oq	omr	bcpq	48	44	•	0.3	1	<0800	<2100	0.0
Stornoway	p	p	r-d	qo	53	48	•	0.6	1	-	·	0.0
Wick	oo	oo	oo	c	52	44	•	-	0.1	-	<2100	•
Castlebay	opdd	dd	dd	dd	52	51	•	0.2	1	<0800	<2100	0.0
Nairn	btcq	cgq	cgq	cg	53	50	•	-	0.1	-	-	0.3
Aberdeen	cmtm	bemo	ocbcb	bbcco	53	50	41	-	-	-	-	2.6
Malin Head	oo	oo	oimm	iF	51	49	•	Trace	0.6	1730	0130	0.0
Renfrew	oidom	om	omq	omq	50	48	46	Trace	-	-	-	0.0
Edinburgh (Inchkeith)	om	oo	c	c	50	49	45	-	-	-	-	0.2
Leuchars	c	c	c	c	51	47	41	-	-	-	-	3.4
Eskdalemuir	co	omidm	o	oodm	48	44	43	Trace	0.2	1430	0530	0.0
Tynemouth	cm	cm	oomq	bcq	49	47		-	-	-	-	•
Blacksod Point ...							•					•
Donaghadee	oo	bc	c	c	51	48	•	-	-	-	-	•
Birr Castle ...												
Holyhead	0d000	oo		oo	49	48	46	Trace	-	0900	-	0.0
Liverpool (Bidston) ...	oo	oo	o	o	48	46	43	-	-	-	-	0.0
Chester (Shotwick) ...	omo	oo3	ocbc	ocbc	49	47	40	-	-	-	-	•
Spurn Head	oo	f.m	bbc	bwco	46	42	•	-	trace	-	<2100	0.3
Nottingham	cm	m	ob	c	50	34	33	-	-	-	-	0.0
Cranwell	omm	mm	bbm	mm	49	37	34	-	trace	-	-	0.0
Gorleston	om	om	omcm	omcbc	48	41	40	-	-	-	-	0.0
Valencia (Cahirciveen)	oc	cb	o					0.1		<0800		
Roches Point							•					•
Pembroke (St. Ann's H.)	cvov	ovog	oo	oo	50	44		-	-	-	-	0.0
Ross-on-Wye	oo	ov	ov	ovbcv	48	45	43	-	-	-	-	0.0
Benson...	omo	o	o	o	48	44	42	-	-	-	-	•
Andover	oo	oo	oo	oo	49	43	41	-	-	-	-	0.0
S. Farnborough ...	omm	omo	moo		48	44	42	-	-	-	-	0.0
London (Kew Obsy.) ...	omofoz	oo	om	om	49	45	43	-	-	-	-	0.0
Croydon	omf	ofm3	ozz	om	48	44	44	-	-	-	-	0.0
Clacton-on-Sea ...	ogm	ogm	ogm	ogm	48	44	43	-	-	-	-	0.0
Shoeburyness	om	om	om	om	48	44	43	-	-	-	-	0.0
Grain	omom	omom	oom	oom	47	43	42	-	-	-	-	0.0
Lympne	omf	omf	om	omm	47	?	41	-	-	-	-	0.0
Scilly (St. Mary's) ...	oo	oo	cd.	oid.	51	45	•	-	0.5	-	2200	0.0
Falmouth (Pendennis)	oo	oo	obc	bd.	51	44	•	-	0.2	-	0230	0.0
Plymouth (Cattewater)	om	oo	or		51	46	41	-	0.4	-	0130	0.0
Portland Bill	om	omo	oo	oo	52	45	•	-	-	-	-	•
Southampton (Calshot)	omm	omo	oo	oo	50	44	44	-	-	-	-	0.0
Dungeness	oo	f.m	oo	oo	48	44	•	-	-	-	-	•
Jersey 7h. / Guernsey 1h.	ob	bco	o	o	51	43	•	-	-	-	-	0.2

ISALLOBARS. 5th December 1922

POSITION NUMBERS



Observations from Cross Channel Steamers.

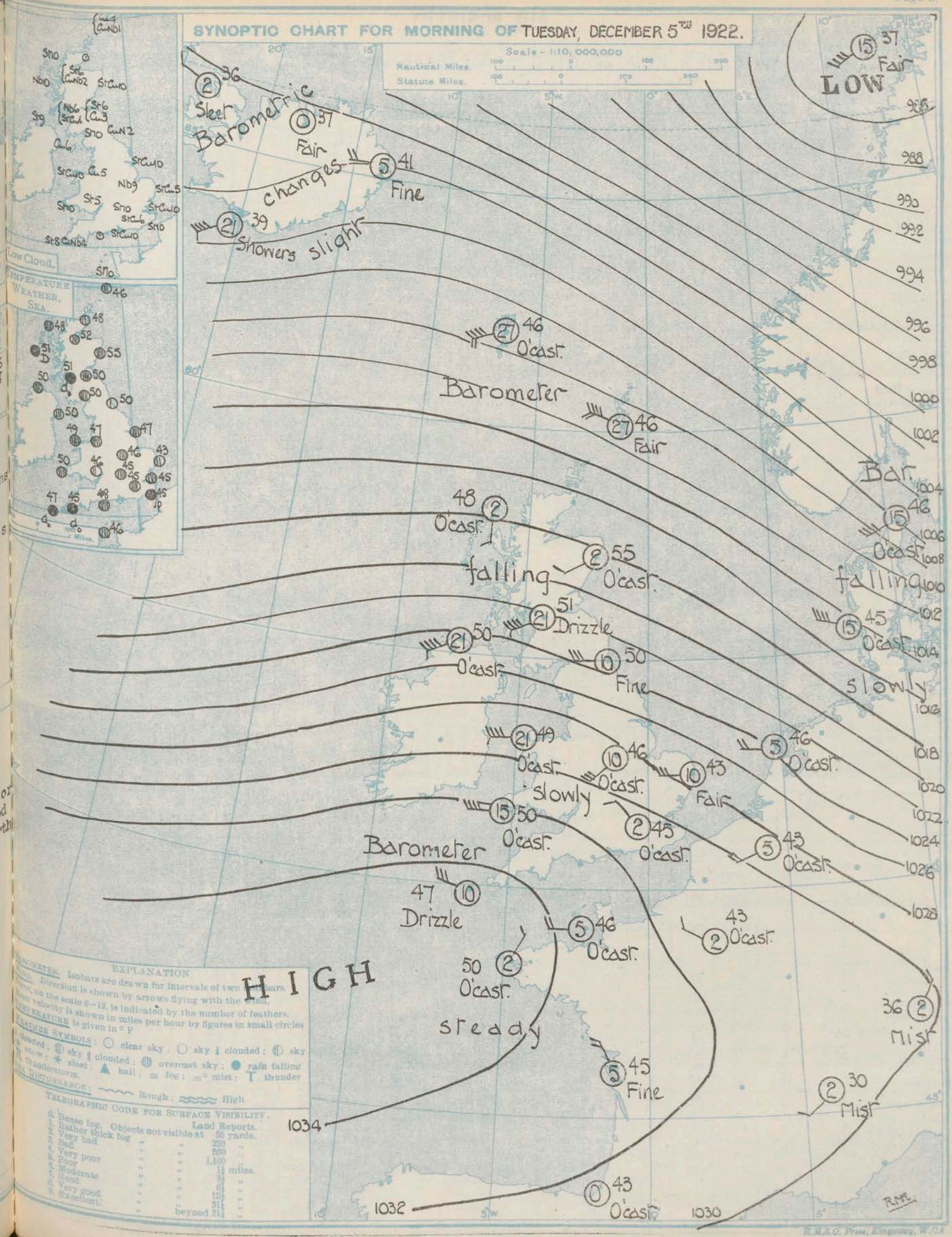
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	4th 1000	Anglia	SW	3	0	48	52	5
3	5th 0300	Brighton	NW	3	0	47	49	8

GENERAL INFERENCE.

The general situation remains favourable for a continuance of mild westerly winds with a good deal of cloud. Unsettled conditions are probable in the North with occasional rain or drizzle. In the South precipitation will be confined to slight local drizzle, many places experiencing none.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Tuesday, 5th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind westerly, light or moderate; cloudy, slight intermittent drizzle locally; visibility moderate or good; mild.	Generally mild for the next day or two with unsettled weather in the North but probably not much rain in the South.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind westerly, moderate, fresh at times; cloudy, occasional light rain or drizzle in places; visibility moderate or good; mild.	
▼11. E. Scotland 12. S.W. Scotland	As 14 to 16.	▼ South Cone hoisted at 1445 yesterday.
13. Isle of Man	As 7 to 10	
14. N.&N.W. Scotland 15. Hebrides ▼16. Orkneys and Shetlands	Wind westerly, fresh or strong at times; cloudy, occasional rain or drizzle; visibility moderate or good; mild.	
17. N.W. Ireland 18. N.E. Ireland	As 7 to 10.	
19. S.E. Ireland 20. S.W. Ireland	As 1 to 6	

MAK.



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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION Tuesday 5th December 1922. No. 339

STATIONS	0100 G.M.T. 5th: 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	Upper Form.	Total Amt. 0-10	Sea. 0-9	0700 G.M.T. 5th: 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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1012.3	0	WSW	6	orr	49	92	6	2500	Nb	10	-	10	•	1011.2	-1	WNW	6	bc-	46	85	7	4000	Cu	5	-	5	5
Stornoway	1020.2	0	W	4	ro	•	•	5	•	•	•	•	•	•	1017.9	-1	S	1	o	48	97	6	1500	St	10	-	10	0
Wick	1017.3	-1	WNW	3	c	48	92	8	5700	StCu	6	Ci.St	8	•	1015.6	0	WNW	3	bc	48	92	8	-	-	0	ACu	6	0
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1026.5	-5	W	5	cDD	51	97	5	800	Nb	10	-	10	5
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1017.9	•	W	2	c+	52	85	8	1500	St	8	-	8	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1018.1	-1	WSW	1	o	55	75	7	2500	StCu	10	-	10	0
Malin Head	1027.3	0	WSW	5	ro	51	97	3	<150	St	10	-	10	•	1024.7	-3	WSW	5	ojf	50	92	7	4000	St	9	-	9	4
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1022.9	-3	WSW	5	odo	51	92	6	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	1021.6	-2	W	6	bc	49	85	8	-	St	6	-	6	•	1021.7	-1	W	5	o+	50	85	8	-	St	9	-	9	4
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1019.8	-3	WSW	4	o	51	85	8	4000	StCu	9	Ci	10	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1024.2	-1	WSW	4	ojr	50	85	6	800	St	10	-	10	•
Tynemouth	1025.9	-1	W	2	bc-	48	92	7	4000	CuNb	3	Ci.Cu	6	•	1022.9	-2	W	3	b	50	92	6	4000	CuNb	2	-	2	0
Blacksod Point														•	1026.2	-3	WSW	3	c	50	85	8	4000	Cu	6	ACu	8	1
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•														•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•														
Holyhead															?	-2	W	5	o	49	92	8	2500	StCu	10	-	10	3
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.0	-3	W'N	5	o	47	97	7	1530	Cu	5	ASr	9	5
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.8	-2	W	3	bc	47	92	7	1200	StCu	5	-	5	•
Spurn Head	1028.4	-1	WSW	2	b	43	92	5	-	-	0	-	0	•	1026.1	-2	W	4	o	47	92	6	4000	StCu	10	-	10	3
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1028.3	•	WSW	3	o	46	92	7	1500	Nb	9	-	9	•
Cranwell	1029.8	-1	W'S	3	b+	40	97	5	-	-	0	ASr	3	•	1027.6	-3	W	4	c	44	97	6	1500	StCu	7	-	7	•
Gorleston	1029.6	0	W'S	3	mmo	42	92	5	2500	St	10	-	10	•	1027.7	-1	W	3	bc-	43	92	6	4000	StCu	5	-	5	0
Valencia (Cahirciveen)	1033.7	0	-	0	ou	49	97	8	-	-	0	ASr	9	•														
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•														
Pembroke (St. Ann's H.)	1033.0	0	W	3	o	50	75	8	4000	StCu	10	-	10	•	1032.0	-1	W	4	o	50	75	8	1500	St	10	-	10	3
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.5	-2	SW'S	2	bc	46	85	9	2500	St	5	ACu	6	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.8	-1	W	2	o	45	92	7	-	St	10	-	10	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1031.2	0	WSW	1	o	44	92	7	1500	St	10	-	10	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.9	-2	N	3	o/m	44	85	7	2500	StCu	10	-	10	•
London (Kew Obsy.)	•	•	•	•	•	45	•	•	•	•	•	•	•	•	1030.8	-1	NW	1	o	45	85	6	4000	StCu	6	ASr	10	•
Croydon	1031.7	-1	W'S	1	o	45	75	7	2500	StCu	10	-	10	•	1030.5	-1	WSW	2	o	44	85	6	1500	StCu	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.4	-1	WNW	2	mo-	45	92	7	1200	StCu	10	-	10	0
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1029.8	-1	W'S	1	mmo	45	92	6	1500	St	10	-	10	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1030.3	-2	WSW	4	o	45	85	6	2500	StCu	10	-	10	0
Lympne	1031.6	+1	W'N	3	mmo	44	85	4	1500	St	10	-	10	•	1030.8	-1	WNW	3	o	43	85	7	2500	StCu	10	-	10	•
Scilly (St. Mary's)	1034.8	0	NW	1	o	47	92	8	4000	StCu	10	-	10	•	1034.4	0	WNW	3	cdo	47	92	7	1500	St	8	-	8	1
Falmouth (Pendennis)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1034.1	-1	W	2	bcdo	45	97	8	4000	CuNb	4	-	4	0
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1033.4	0	NW	1	o-	46	97	8	2500	St	10	-	10	0
Portland Bill	1033.0	0	NNW	2	o	48	85	7	450	St	10	-	10	•	1033.0	0	WNW	4	o	48	85	7	2500	St	10	-	10	3
Southampton (Calshot)	1032.6	0	W	2	o	45	85	7	4000	StCu	10	-	10	•	1031.8	-2	WSW	2	o	45	85	7	4000	StCu	10	-	10	0
Dungeness	1031.6	0	NW	2	o	45	85	7	?	StCu	10	-	10	•	1030.6	-1	SW	3	ojp	45	92	8	2500	St	10	-	10	2
Jersey 7h / Guernsey 1h	1033.7	+1	NNW	2	o	48	85	8	1200	StCu	1	ASr	9	•	1032.9	0	W	2	o	46	92	6	1500	St	10		10	0

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

STATIONS	Weather Fore-noon.	Weather After-noon.	Temp. Min. Night. 3-4 °F.	Temp. Max. Day. 4 °F.	Rainfall† Night 17h.-9h. 3-4 mm.	Rainfall† Day 9h.-17h. 4 mm.	Sunshine hr.	Sunshine Sunrise to Sunset. 4 hr.
Banff								
Montrose	*	*	40	51	-	-		2.8
Llandudno	o	o	43	49	-	-		0.0
Colwyn Bay	c	c	47	49	-	-		0.0
Rhyl	o	o	47	48	0.3	-		0.0
Southport	o	o	46	48	-	-		0.0
Blackpool	o	o	47	49	-	-		0.0
Harrogate	bc	bc	40	48	-	-		2.8
Skegness	fmo	mo	42	49	-	-		0.0
Aberystwyth	moo	o	46	51	0.2	-		0.0
Bath	mo	mo	45	50	-	-		0.0
Leamington Spa	o	o	43	48	-	-		0.0
Lowestoft	om	om	43	48	-	-		0.0
Felixstowe	om	om	43	48	-	-		0.0
Southend	mo	o	42	48	-	-		0.0

STATIONS	Weather Fore-noon.	Weather After-noon.	Temp. Min. Night. 3-4 °F.	Temp. Max. Day. 4 °F.	Rainfall† Night 17h.-9h. 3-4 mm.	Rainfall† Day 9h.-17h. 4 mm.	Sunshine hr.	Sunshine Sunrise to Sunset. 4 hr.
Paignton	oo	go	48	52	-	-		0.0
Ilfracombe	o	o	48	50	-	-		0.0
Bude	o	o	47	51	1	-		0.0
Penzance	oz	oz	48	52	-	-		0.0
Falmouth Observatory	omo	oom	48	51	-	-		0.0
Torquay	c	c	47	52	-	-		0.0
Weymouth	o	o	46	52	-	-		0.0
Bournemouth	o	o	44	50	-	-		0.0
Portsmouth (S'thsea)	om	om	44	50	-	-		0.0
Worthing	o	o	43	49	-	-		0.0
Brighton	of	of	44	49	-	-		0.0
Eastbourne	o	o	44	49	-	-		0.0
Hastings	om	ofm	45	49	-	-		0.0
Folkestone	o	f	45	49	-	-		0.0
Tunbridge Wells	om	ogm	41	47	-	-		0.0
Ramsgate	o	om	42	46	-	-		0.0
Margate	o	o	43	47	-	-		0.0
Deal	mo	mo	43	47	-	-		0.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B22294 WEDNESDAY, 6TH DECEMBER, 1922.

Observations at 1300 G.M.T. 5th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground
Lerwick	1009·9	-2	W	3	o	46	97	7	5700	StCu	9	ASt	10	•
Stornoway	1004·1	-15	SW	3	oPR	52	92	6	450	St	10	-	10	•
Wick	1009·2	-7	S	1	or₀+	47	97	7	4000	Nb	10	-	10	•
Castlebay	1013·4	-12	W	6	opr₀	50	92	6	450	Nb	10	-	10	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1012·8	-9	SSW	3	o	52	85	6	4000	StCu	10	-	10	1
Malin Head	1018·4	-1	WSW	7	oDD	51	97	6	1500	St	10	-	10	•
Renfrew	1017·8	-9	WSW	4	or₀	50	85	6	1500	Nb	10	-	10	1
Edinburgh (Inchkeith)	1015·9	-8	WSW	4	o+	49	85	7	-	St	10	-	10	•
Leuchars	1014·5	-9	WSW	5	o	51	85	8	1500	StCu	9	-	9	0
Eskdalemuir	1019·8	-6	SW	4	o	47	92	6	1500	St	10	-	10	1
Tynemouth	1020·4	-4	W'N	2	o	51	85	6	2500	StCu	10	-	10	•
Blacksod Point														
Donaghadee	1022·4	-5	WSW	4	o+	51	85	8	1500	St	6	ASt	9	•
Birr Castle	1028·7	•	SW	1	co	50	92	8						•
Holyhead	1026·3	-7	SW'S	4	c-	52	85	8	2500	StCu	8	-	8	0
Liverpool (Bidston)	1025·5	-3	W'S	5	c-	49	85	8	1500	CuNb	8	-	8	•
Chester (Shotwick)	1026·4	-4	WSW	4	o+	54	75	7	4000	StCu	9	-	9	0
Spurn Head	1022·8	-0	W'S	6	o	49	85	6	4000	StCu	10	-	10	•
Nottingham	1025·6	•	WNW	3	o+	51	85	7	1500	StCu	9	-	9	•
Cranwell	1025·5	-3	W	3	b	50	85	6	4000	StCu	3	-	3	0
Gorleston	1025·1	-1	W'N	4	o+	50	75	6	2500	St	9	-	9	•
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	1030·5	-3	WNW	4	c-	49	85	7	1500	St	7	-	7	•
Ross-on-Wye	1028·8	-4	W'S	3	b	52	75	9	4000	StCu	3	-	3	0
Benson	1028·0	-5	WSW	3	c	49	85	7	-	Cu	8	-	8	1
Andover	1029·1	-2	W	4	o	49	85	7	2500	StCu	10	-	10	0
S. Farnborough	1028·8	-4	WSW	3	mmo	49	75	6	4000	StCu	10	-	10	0
London (Kew Obsy.)	1028·2	-5	WSW	3	o	50	75	6	4000	StCu	10	-	10	1
Croydon	1028·3	-4	W	3	o	49	85	6	1500	StCu	10	-	10	1
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	1027·3	-3	WSW	3	mb,+	48	85	5	1500	St	2	-	2	•
Grain	1027·4	-4	WSW	4	b-	50	75	6	5700	St	1	-	1	1
Lympne	1028·0	-5	W	3	o-	46	85	7	1500	St	10	-	10	1
Scilly (St. Mary's)	1033·7	-1	W'N	4	cd₀	49	92	7	2500	St	8	-	8	•
Falmouth (Pendennis)	1033·8	-1	WNW	2	cd₀	49	92	6	2500	CuNb	8	-	8	•
Plymouth (Cattewater)	1032·4	-3	NW	3	ojp	50	82	7	1500	CuNb	10	-	10	1
Portland Bill	1030·4	-3	WNW	4	o	50	85	7	460	St	10	-	10	•
Southampton (Calshot)	1029·4	-4	WSW	4	o	49	75	8	2500	StCu	10	-	10	0
Dungeness	1028·0	-2	SW	3	ojp	46	85	8	1500	St	10	-	10	•
Jersey 7h / Guernsey 1h	1032·7	0	W	2	c/r	49	85	7	4000	StCu	7	-	7	•

Observations at 1800 G.M.T. 5th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	1006·0	0	N	1	or₀	44	97	7	2500	Nb	4	ASt	10	0
Stornoway	1012·5	+9	N	6	oPR	42	97	6	450	St	10	-	10	9
Wick	1004·9	+4	NW	9	oR-	43	97	7	2500	Nb	10	-	10	7
Castlebay	1017·2	+6	WNW	5	bc/r	46	85	6	800	Nb	6	-	6	6
Nairn	1009·4	•	W	4	or	44	85	8	1500	St	10	-	10	•
Aberdeen	1005·8	-2	NW	7	or₀	45	85	7	2500	Nb	10	-	10	0
Malin Head	1020·7	+4	NW	8	bPR-	48	85	8	5700	Nb	3	-	3	6
Renfrew	1014·4	0	WNW	6	o/r	48	75	7	1500	St	9	-	9	•
Edinburgh (Inchkeith)	1008·6	-4	WSW	6	b+	47	85	8	-	St	2	-	2	5
Leuchars	1009·4	-1	WSW	5	b-	47	75	8	4000	StCu	1	-	1	•
Eskdalemuir	1014·9	-2	W	5	o/r	45	85	6	2500	StCu	10	-	10	•
Tynemouth	1013·4	-6	W	3	b/r	50	85	7	4000	CuNb	3	-	3	2
Blacksod Point														
Donaghadee	1020·2	-3	SW	4	bc+	48	75	8	4000	CuNb	3	ACu	4	3
Birr Castle	1028·2	•	SW	2	bc-	47	85	7	2500	Cu	6	-	6	•
Holyhead	1035·2	-3	W	6	b-	52	85	8	2500	Cu	3	-	3	6
Liverpool (Bidston)	1020·4	-4	WSW	7	o	49	92	8	1500	Nb	10	-	10	7
Chester (Shotwick)	1021·6	-6	WSW	5	o+	53	85	7	2500	StCu	9	-	9	
Spurn Head	1018·1	-4	SW	6	o	48	85	7	4000	St	10	-	10	•
Nottingham	1020·7	•	SW	4	o+	48	85	7	2500	Nb	10	-	10	•
Cranwell	1021·1	-4	WSW	5	c	47	85	7	2500	StCu	8	-	8	5
Gorleston	1021·3	-4	W'S	5	o+	47	92	7	-	-	0	ASt	10	1
Valencia (Cahirciveen)	1032·5	+2	NW	4	b-	51	85	8	1500	St	1	-	1	4
Roches Point														
Pembroke (St. Ann's H.)	1027·8	-3	W	5	o	51	85	8	2500	St	9	-	9	•
Ross-on-Wye	1025·5	-4	SW	3	o+	49	75	9	2500	St	9	-	9	•
Benson	1024·7	-2	SW	3	o	48	85	7		StCu	10	-	10	•
Andover	1026·6	-2	W'S	5	o	48	92	7	1500	StCu	10	-	10	•
S. Farnborough	1025·7	-2	W'N	4	o	48	85	7	-	StCu	10	-	10	•
London (Kew Obsy.)	1025·1	-3	W	3	o	49	75	6	4000	StCu	10	-	10	•
Croydon	1025·8	-2	WNW	4	o	47	85	6	1500	StCu	10	-	10	•
Clacton-on-Sea	1022·9	-3	WSW	4	mb	45	97	4	7200	StCu	3	-	3	1
Shoeburyness	1024·4	-3	WSW	6	mmc	46	92	5	1500	StCu	7	-	7	•
Grain	1024·3	-4	WSW	5	o+	46	85	6	4000	St	10	-	10	0
Lympne	1024·8	-4	SW	3	o	45	92	7	1500	StCu	10	-	10	•
Scilly (St. Mary's)	1032·3	0	W'N	5	b+	49	92	7	4000	CuNb	3	-	3	3
Falmouth (Pendennis)	1031·7	-2	WNW	4	cd₀	48	97	6	4000	CuNb	8	-	8	1
Plymouth (Cattewater)	1030·6	0	WSW	4	od₀	48	97	7	-	Nb	10	-	10	0
Portland Bill	1027·6	-3	WNW	6	o	50	85	7	450	St	10	-	10	4
Southampton (Calshot)	1027·9	-2	W	4	od₀	49	85	8	1500	StCu	10	-	10	0
Dungeness	1025·7	-3	SW	3	o-	47	92	8	2500	St	10	-	10	3
Jersey 7h / Guernsey 1h	1030·8	-1	W	2	odd	48	97	6	1500	Nb	10	-	10	0

LONDON OBSERVATIONS. (Weather, Temperature, Rainfall: 24 Hours ended 0900 G.M.T. 6th; Sunshine and Humidity 15h.: Yesterday; Humidity 9h.: To-day)

Station	Weather Morning	Weather Afternoon	Weather Night	Max. °F.	Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
Kew	omoz	ozcom	ombcb	•	•	40	-	-	0.0	•	•
Croydon (24 hours ended 0700)	om	omm	ombcD	•	•	38	-	-	0.0	•	•
Greenwich (Royal Obsy.)	o	obo	obcb	50	42	35	-	-	0.0	78	73
City (Bunhill Row)	•	•	•	•	•	•	•	•	0.0	•	•
Westminster (St. James' Pk.)	•	•	•	51	43	36	-	-	0.0	67	72
Regent's Pk. (Botanic Gdns).	•	•	•	•	•	•	•	•	0.0	•	•
Camden Square	o	o	•	50	?	38	-	-	•	•	76
Kensington Palace	o	o	•	50	43	35	-	-	•	80 (15h)	74
Hampstead Observatory	•	•	•	48	41	31	-	-	0.3	•	78

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1600 G.M.T. 5th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
1·0	1700 4th	‹0·3	0200-0500 5th
0·9	0900 5th		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 5th 17 h 00 m. to 6th 06 h 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 45	8·30	62
δ Ursae Minoris	13 45	8·11	60

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 today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	155
18h.	C	5	-	115
01h.	C₁C₂	6	6	165
07h.	C	5	5	20

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

6th & 7th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.49 / 7.51	11.44 / 11.45	3.39 / 3.35
Greenwich	7.51 / 7.53	11.51 / 11.52	3.51 / 3.51
Wick	8.47 / 8.49	12.3 / 12.4	3.20 / 3.19
Valencia	8.35 / 8.37	12.32 / 12.33	4.29 / 4.29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

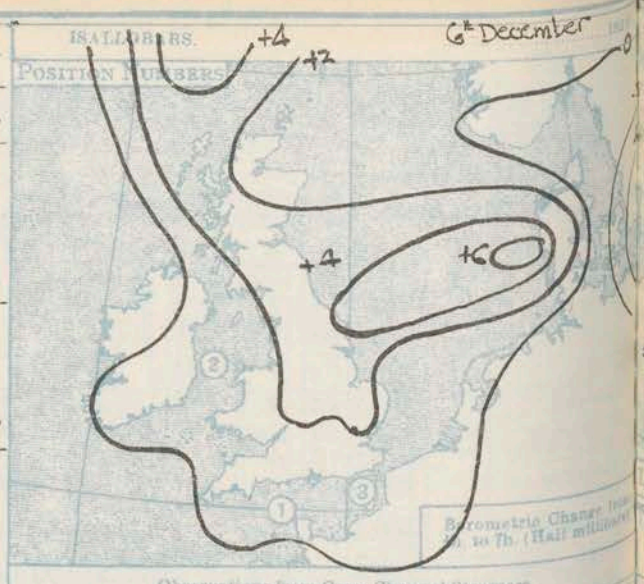
SEA DISTURBANCE.
0 = no swell, 1 = mod. swell, 2 = heavy swell } Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell } Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

For explanation see Introduction. • Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.–13h. 5h.	13h.–18h. 5h.	18h. 5h. to 1h. 6h.	1h.–7h. 6h.	Temperature. Max. Day. 7h.–18h.	Min. Night. 18h.–7h.	Min. on Grass	Rainfall.† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	Sun. 5h. Hours.
Lerwick	c	or	cp	cprh	48	40	•	0.2	1	16.30	<2100	0.0
Stornoway	p	p	p	cpr	52	41	•	16	4	–	–	0.2
Wick	or mr	o RR	cprq	cprq	48	41	•	5	4	12.30	<2100	•
Castlebay	drop	ophpc	chpbc	cbc	51	44	•	2	0.4	–	–	0.0
Nairn	ir	q oq	quirc	qcbc	52	41	•	2	2	11.00	2200	0.4
Aberdeen	mfpr	bc oqr	oqrbc	bcqpr	55	40	36	0.3	1	0900	<2100	0.1
Malin Head	oimd	dapr	cpr(1)	cpr	51	42	•	1	1	0900	<2100	0.0
Renfrew	oirmo	omrrq	opqbc	bbcq	51	39	35	3	1	0800	<2100	0.0
Edinburgh (Inchkeith)	oo	irc	b	b	51	41	37	Trace	Trace	–	–	0.0
Leuchars	oo	ir.oc	b.bc		52	38	31	Trace	–	14.30	–	0.1
Eskdalemuir	ocmo	oiro	ocbc	bc	50	38	37	4	–	14.30	–	0.0
Tynemouth	om	irq	bcq	bq	51	39	?	0.3	–	15.30	–	•
Blacksod Point							•					•
Donaghadee	bc	spq	cq	bcq	52	43	•	0.4	0.2	14.30	2200	•
Birr Castle	com	copq			50			0.1		14.30		
Holyhead	oco	ocq	bcobc	bcco	52	46	43	–	?	–	–	1.3
Liverpool (Bidston)	c	coq	bcq		51	44	38	–	0.4	–	<2100	0.2
Chester (Shotwick)	bbcc	ocoq	oprcmq	oopr q	55	45	41	–	trace	–	<2100	•
Spurn Head	c	c	oqprbq	c	49	43	•	–	0.3	–	<2100	0.1
Nottingham	b-bc	c	ob	bbc	52	44	41	–	–	–	–	1.4
Cranwell	b-bc	oco	bcbq	bbc	50	41	38	–	–	–	–	4.4
Gorleston	bcc	coq	orcbq	bbcq	51	42	38	–	1	–	<2100	3.0
Valencia (Cahirciveen)		odcb	b	bbc	52	38	33	0.5	–	0800	–	0.7
Roches Point							•					•
Pembroke (St. Ann's H.)	ogpd	oqpr	c	bbc	51	45	•	Trace	–	1230	–	0.4
Ross-on-Wye	ocvbc	bcvscbc	cvbqvbq	cbccv	53	41	37	–	–	–	–	2.5
Benson	oc	oco	oco	ocbc	50	40	33	–	–	–	–	•
Andover	oo	oco	oc	bcc	49	41	36	–	–	–	–	0.0
S. Farnborough	oom	ocmo	co	c	49	39	31	–	–	–	–	0.1
London (Kew Obsy.)	omoz	ozczom	omobc	bcbb	50	44	40	–	–	–	–	0.0
Croydon	om	omm	ombcc(1)	c(1)	49	43	38	–	–	–	–	0.0
Clacton-on-Sea	bc	bcm	bcmcm	bcc	50	43	40	–	–	–	–	3.3
Shoeburyness	obcbcm	bcmcm	om	c	49	41	29	–	–	–	–	2.3
Grain	omobz	bzomo	omco	ocbcc	50	42	37	–	–	–	–	2.1
Lympne	oo	oo	ocq	bbcq	47	42	36	–	–	–	–	0.0
Scilly (St. Mary's)	cmid	od	omdcq	bbc	50	46	•	0.3	0.5	12.30	<2100	1.3
Falmouth (Pendennis)	bbccd	cdomd	ebc		50	46	•	0.1	0.2	09.00	<2100	1.5
Plymouth (Cattewater)	oro	orodo	bbc		51	45	38	0.1	–	14.30	–	0.4
Portland Bill	oo	oo	obc	(1)bcc	52	44	•	–	–	–	–	•
Southampton (Calshot)	oo	oo	oid.o	ccbc	50	42	42	Trace	trace	1730	<2100	0.0
Dungeness	oo	oo	c	bbc	47	43	•	–	–	–	–	•
Jersey	op.bc	cdpcd	oddm	orrbc	50	45	•	0.2	2	1100	2200	0.4



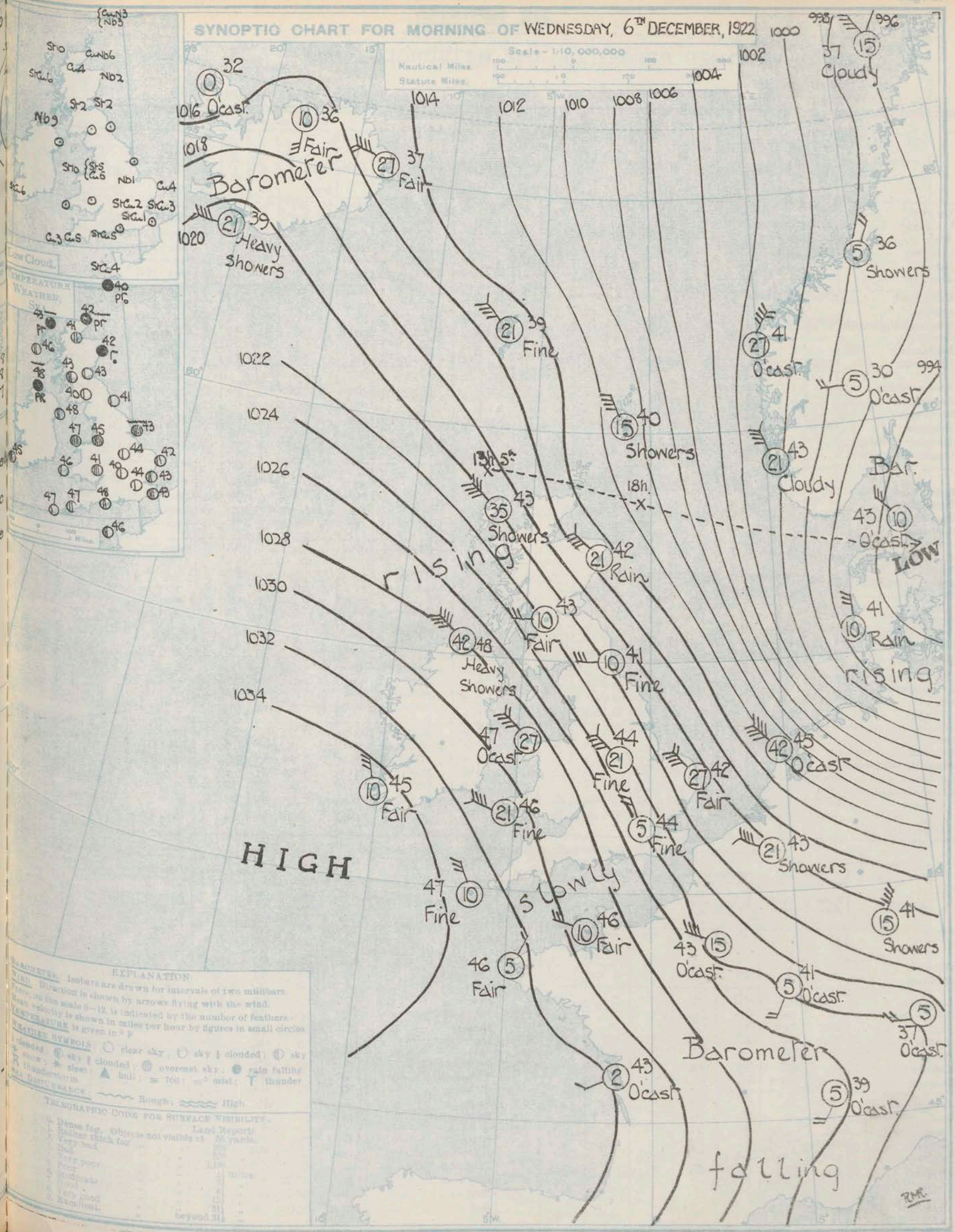
Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	
2	5th 1010	Anglia	SSW	3	o	51	52	9
1	• 1300	Reindeer	NW	4	ojp	51	53	9
3	6th 0300	Brighton	NNW	6	c	48	50	7

General Inference.

The depression which crossed Northern Scotland yesterday has moved southeastward to the Baltic and high pressure is spreading eastward again in its rear. Some further showers are probable in the north but fair weather is to be expected in the south during the next 24 hours at least.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Wednesday, 6th December 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind NW. to W. moderate to strong at first, moderating gradually; fair generally; visibility good; rather mild.	Withheld.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind NW. to W. fresh or strong at first, moderating gradually; variable sky, some showers but considerable bright intervals; visibility good; moderate temperature.	- - - - - - - -
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind NW. to W. fresh or strong, moderating gradually; variable sky, some showers; visibility good; moderate temperature.	South Cone hoisted at 1445 on 4th, 1415 on 5th. - - - - - - - -
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind Nw. backing to W. or SW. moderate; fair at first, probably less fair later; visibility good; rather mild.	


SYNOPTIC CHART FOR MORNING OF WEDNESDAY, 6TH DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Low Cloud.
TEMPERATURE
WEATHER
Barometer
rising
slowly
falling
HIGH
LOW
Bar.
1016 O'cast.
1018
1020
1022
1024
1026
1028
1030
1032
1034
1014
1012
1010
1008
1006
1004
1002
1000
998
996
994
13h. 5th.
18h.
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Mean velocity is shown by the number of feathers, on the scale 0–12, is indicated by the number of feathers.
TEMPERATURE is given in ° F.
WEATHER SYMBOLS: clear sky; sky ½ clouded; sky clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: rough; high.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0 Dense fog. Object is not visible at 50 yards.
1 Rather thick fog.
2 Very bad.
3 Bad.
4 Very poor.
5 Poor.
6 Moderate.
7 Good.
8 Very good.
9 Excellent.
Beyond 31 miles.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Wednesday, 6th December 1922. No. 340

Observations at 0100 G.M.T. 6th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1008.1	+4	NNW	4	cpr.	41	92	7	4000	CuNb	3	ASr	8	.
Stornoway	1020.0	+5	NW	7	ph.	.	.	6	.	.	.	.	.	.
Wick	1012.7	+5	NW	7	CPR	43	85	8	2500	CuNb	7	-	7	.
Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Aberdeen	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Malin Head	1026.7	+3	NW	8	bPR	48	65	8	4000	CuNb	3	-	3	.
Renfrew	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Edinburgh (Inchkeith)	1017.7	+7	NW	4	b-	44	65	8	-	-	0	-	0	.
Leuchars	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eskdalemuir	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tynemouth	1016.4	+6	NNW	4	b	45	75	7	-	-	0	-	0	.
Blacksod Point														.
Donaghadee	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Holyhead	1027.2	+4	NW'N	6	bc	48	75	8	2500	Sr	2	ASr	4	.
Liverpool (Bidston)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chester (Shotwick)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spurn Head	1014.9	+2	W	8	b	45	85	7	-	-	0	-	0	.
Nottingham	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cranwell	1020.0	0	NW	6	b-	45	65	7	2500	SrCu	2	-	2	.
Gorleston	1017.4	+2	NW'W	6	b	46	75	7	4000	Cu	2	-	2	.
Valencia (Cahirciveen)	1035.2	+2	NW'N	3	b	48	92	9	-	Cu	2	-	2	.
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	1030.3	+1	NNW	6	bc	48	75	8	-	-	0	CiSr	6	.
Ross-on-Wye	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Benson	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Andover	.	.	.	.	.	.	.	.	.	.	.	.	.	.
S. Farnborough	.	.	.	.	.	.	.	.	.	.	.	.	.	.
London (Kew Obsy.)	.	.	.	.	.	48	.	.	.	.	.	.	.	.
Croydon	1023.1	+1	WNW	5	c	48	65	8	4000	SrCu	1	CiSr	8	.
Clacton-on-Sea	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Shoeburyness	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Grain	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lympne	1021.8	-2	NW'N	5	bc	46	85	8	2500	SrCu	4	CiSr	6	.
Scilly (St. Mary's)	1033.0	+1	NW	5	b-	49	85	8	-	-	0	-	0	.
Falmouth (Pendennis)	×	×	×	×	×	×	×	×	×	×	×	×	×	.
Plymouth (Cattewater)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland Bill	1027.1	+2	NW	6	bc-	48	85	7	-	-	0	CiCu	4	.
Southampton (Calshot)	1026.2	+2	NNW	6	o/r	48	65	8	-	-	0	CiCu	9	.
Dungeness	1022.1	-2	W	5	bc+	47	92	8	4000	Cu	6	-	6	.
Jersey 7h. / Guernsey 1h.	1029.6	-1	NNW	5	od.	50	92	8	1500	Sr	6	ACu	9	.

Observations at 0700 G.M.T. 6th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1010.3	+3	NNW	4	cpr.	40	97	7	4000	Nb	7	-	7	3
Stornoway	1021.3	+3	NW	7	OPR	43	92	6	450	Sr	10	-	10	6
Wick	1013.9	0	NW	7	bcPR	42	92	8	2500	CuNb	6	-	6	7
Castlebay	1025.3	+2	NNW	1	bc	46	75	7	1500	SrCu	6	-	6	5
Nairn	1018.7	.	NNW	4	bc/r	41	85	8	4000	Cu	4	-	4	.
Aberdeen	1016.9	+2	NW	5	b/r.	42	85	8	4000	Nb	2	-	2	4
Malin Head	1028.0	-2	NW	8	OPR	48	75	7	5700	Nb	9	-	9	7
Renfrew	1022.5	+2	WNW	3	bc	43	75	7	2500	Sr	2	Ci	4	.
Edinburgh (Inchkeith)	1019.9	+2	SW	4	b+	43	75	8	-	Sr	2	-	2	3
Leuchars	1020.0	+1	WNW	3	b	40	75	8	5700	SrCu	3	-	3	.
Eskdalemuir	1021.2	+2	NW	6	b	40	75	6	-	-	0	ASr	3	.
Tynemouth	1020.0	+2	W	3	b	41	85	7	-	-	0	CiCu	2	2
Blacksod Point	1026.8	+1	WNW	3	bc+	48	75	8	-	-	0	ASr	4	4
Donaghadee														.
Birr Castle														.
Holyhead	1028.5	+1	NW'W	6	o	47	85	8	2500	Sr	10	-	10	3
Liverpool (Bidston)	1026.9	+2	W'N	7	o/r	45	85	7	2500	Sr	10	-	10	8
Chester (Shotwick)	1026.0	+1	WNW	7	opr.	46	75	6	1500	Nb	10	-	10	.
Spurn Head	1018.9	+4	WNW	7	o	43	92	7	-	-	0	Ci	9	6
Nottingham	1023.1	.	NW	5	b	44	75	6	2500	Nb	1	Ci	2	.
Cranwell	1022.5	+3	NW'W	4	bc	41	75	6	4000	Sr	3	ASr	6	.
Gorleston	1018.5	+1	NW	6	bc+	47	75	7	4000	Cu	4	-	4	2
Valencia (Cahirciveen)	1035.0	0	N'W	3	bc	45	75	8	4000	SrCu	6	-	6	1
Roches Point														
Pembroke (St. Ann's H.)	1030.4	0	WNW	5	b-	46	75	8	-	-	0	ASr	1	4
Ross-on-Wye	1027.0	+1	W'N	3	c+	41	75	8	-	-	0	ASr	8	.
Benson	1025.6	+2	NW	3	b-	46	85	8	-	SrCu	2	ACu	3	.
Andover	1026.9	+1	WNW	4	c-	47	75	8	5700	CuNb	4	ACu	4	.
S. Farnborough	1026.0	+1	W	3	bc	41	75	7	-	-	0	ACu	3	.
London (Kew Obsy.)	1024.8	+2	NNW	2	b+	44	75	7	2500	SrCu	1	ASr	5	.
Croydon	1024.9	+2	NNW	3	c	43	75	7	4000	Sr	1	CiSr	5	1
Clacton-on-Sea	1021.0	+3	WNW	4	bc	43	75	7	7200	SrCu	3	ACu	7	.
Shoeburyness	1022.7	+1	NW	5	c	42	85	7	-	-	0	ASr	7	3
Grain	1023.2	+3	WNW	5	c+	42	75	7	-	-	0	CiSr	8	.
Lympne	1023.0	+2	NW	5	c	42	75	7	-	-	0	CiSr		
Scilly (St. Mary's)	1033.0	0	NNW	3	b	47	75	8	4000	Cu	3	-	3	4
Falmouth (Pendennis)	1033.0	+1	NW	3	bc+	47	75	8	4000	Cu	5	-	5	0
Plymouth (Cattewater)	1031.2	+2	W	3	b+	45	85	8	4000	SrCu	2	-	2	0
Portland Bill	1028.1	+1	NW	6	bc+	48	85	7	1500	SrCu	5	-	5	4
Southampton (Calshot)	1027.2	+1	WNW	4	bc-	43	75	8	-	-	0	CiCu	6	0
Dungeness	1022.7	+1	NW	5	c	43	85	8	-	-	0	CiCu	8	5
Jersey 7h. / Guernsey 1h.	1029.7	0	WNW	3	bc/r	46	75	7	4000	SrCu	4	-	4	3

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

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 4-5 °F.	Temperature. Max. Day. 5 °F.	Rainfall.† Night 17h.-9h. 4-5 mm.	Rainfall.† Day 9h.-17h. 5 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 5 hr.
Banff								
Montrose	*	*	47	53	-	1		0·0
Llandudno	o	ood	43	51	-	-		0·1
Colwyn Bay	c	cd	48	52	-	-		2·4
Rhyl	bcc	bcc	48	52	-	-		1·7
Southport	oco	or	47	49	-	0·2		0·0
Blackpool	oc	or	48	50	-	0·4		0·2
Harrogate	co	od	43	48	-	-		0·2
Skegness	mbwb	bbco	36	51	-	-		4·3
Aberystwyth	roc	o	47	52	1	-		0·0
Bath	o	o	46	51	-	-		0·0
Leamington Spa	bc	bcobo	44	51	-	-		3·3
Lowestoft	cmbccc	cbcocb	42	50	-	-		2·7
Felixstowe	cm	bz	44	52	-	-		4·2
Southend	cbc	cbc	43	48	-	-		0·5
Paignton	om	odpoq	45	52	-	-		0·0
Ilfracombe	op	op	47	50	-	1		0·0
Bude	m	d	46	51	0·3	0·2		0·3
Penzance	cbc	bcod	44	52	1	1		1·6
Falmouth Observatory	bc	ooc	44	51	1	-		1·9
Torquay	c	cbco	46	53	-	-		0·6
Weymouth	o	o	46	50	-	-		0·0
Bournemouth	o	o	45	49	-	-		0·0
Portsmouth (S'thsea)	o	o	45	50	-	-		0·0
Worthing	o	o	44	49	-	-		0·0
Brighton	o	o	45	47	-	-		0·0
Eastbourne	o	o	45	48	-	-		0·0
Hastings	o	om	44	48	-	-		0·9
Folkestone	oc	o	44	48	-	-		0·0
Tunbridge Wells	o	o	43	48	-	-		1·5
Ramsgate	o	ocbbc	43	49	-	-		1·2
Margate	o	bbcc	44	54	-	-		1·9
Deal	moo	bcb	44	48	-	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B22295 THURSDAY, 7TH DECEMBER 1922. Page 1.

STATIONS.	1300 G.M.T. 6th: 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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.	1800 G.M.T. 6th: 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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1016·1	+5	WNW	5	b/h	40	75	7	4000	Cu	1	ACu	3	*	1019·6	+5	NNW	5	b	39	75	7	4000	Cu	2	ACu	3	4
Stornoway	1025·4	+4	NW	4	oPR-	45	75	6	450	St	10	–	10	*	1027·3	+2	NW	2	bc-	44	85	6	4000	Cu	4		4	1
Wick	1021·0	+7	NW	6	c	44	75	8	–	–	0	CiSt	7	*	1023·4		NW	3	qr	42	92	8	2500	CuNb	5	CiSt	7	3
Castlebay	1028·2	+1	NW	4	bc	47	75	7	2500	StCu	4	ASt	6	*	1029·1	+1	NW	3	o	48	75	6	1500	St	10	–	10	3
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026·1	*	NNW	2	c+	43	75	8	1500	CuNb	8	–	8	*
Aberdeen	1020·5	+4	NW	5	bc	43	92	8	1500	CuNb	2	Ci	4	1	1014·2	+5	NNW	3	b-	41	92	8	4000	StCu	2	–	2	3
Malin Head	1029·9	+1	NNW	6	opr₀	49	85	7	5700	StCu	9	–	9	*	1030·6	+1	NW	4	o	49	85	7	5700	Nb	4	ASt	9	6
Renfrew	1025·5	+3	WNW	3	o+	45	75	8	4000	St	3	CiSt	10	1	1028·1	+3	WNW	1	b	40	85	6	4000	St	1	Ci	2	*
Edinburgh (Inchkeith)	1023·2	+3	WNW	4	o+	46	65	7	–	St	6	CiSt	9	*	1026·2	+3	WNW	2	b-	43	75	8	2500	St	2	–	2	1
Leuchars	1022·7	+3	NW	4	bc	45	65	8	2500	StCu	3	Ci	2	0	1025·7	+4	NW	3	bc	45	65	8	4000	StCu	5	–	5	*
Eskdalemuir	1024·3	+2	NW	5	bc	43	65	8	–	–	0	CiSt	5	1	1027·2	+3	WNW	4	b	38	85	6	2500	StCu	3	–	3	*
Tynemouth	1021·5	+1	W	3	bc	46	75	6	4000	Cu	2	CiCu	5	*	1025·0	+3	W	2	b	43	85	6	–	–	0	–	0	4
Blacksod Point ...														*														
Donaghadee	1028·6	+3	W	2	bc-	48	75	8	2500	Cu	5	–	5	*	1029·6	+2	WNW	2	b	46	75	8	4000	Cu	2	ACu	3	3
Birr Castle		*												*		*												*
Holyhead	1029·6	-1	NW	6	o/r	48	85	8	1600	St	3	ASt	10	0	1029·9	+1	NW'N	6	b-	49	75	8	2500	StCu	2	–	2	6
Liverpool (Bidston) ...	1026·3	-1	WNW	7	bcpr₀	45	85	7	1500	Nb	3	CiSt	6	*	1029·0	+3	WNW	5	b/r	45	85	8	–	–	0	ASt	2	5
Chester (Shotwick) ...	1027·2	-0	NW	7	OPR	47	85	7	1500	Nb	8	CiSt	10	1	1028·5	+2	NW	5	b	44	85	7	–	–	0	–	0	*
Spurn Head	1020·2	+2	NW	7	bc	45	92	7	–	–	0	Ci	5	*	1022·7	+2	WNW	7	b	44	92	7	1500	St	1	–	1	
Nottingham	1024·2	*	NW	4	bc	48	75	6	–	–	0	CiCu	6	*	1026·3	*	NW	3	b-	44	85	6	–	–	0	–	0	*
Cranwell	1023·3	-1	NW'N	5	b	46	65	6	4000	Cu	1	Ci	2	0	1025·4	+3	NW'N	4	bc-	41	85	6	4000	St	4	–	4	*
Gorleston	1020·1	+2	NW	6	b-	47	65	7	4000	Cu	1	–	1	*		0	NW	5	b-	44	75	7	–	–	0	–	0	1
Valencia (Cahirciveen)															1035·3	-1	NNW	2	o+	49	65	8	2500	StCu	10	–	10	4
Roches Point														*														
Pembroke (St. Ann's H.)	1031·6	+1	WNW	5	c	48	75	8	4000	StCu	3	Ci	7	*	1031·5	+1	NNW	4	b	47	75	8	4000	StCu	3	–	3	4
Ross-on-Wye	1027·9	+0	WNW	3	o	48	65	8	2500	Nb	8	CiSt	10	0	1028·7	+2	W'S	2	b-	43	75	8	4000	Cu	3	–	3	*
Benson	1026·6	-1	WNW	4	bc	45	75	8	–	Cu	5	Cu	5	1	1027·2	+2	NW	4	bc	43	85	8	–	Cu	5	–	5	*
Andover	1027·4	+1	WNW	5	c	47	75	8	2500	St	1	Ci	8	0	1027·9	+1	WNW	3	b-	44	85	8	2500	StCu	1	–	9	*
S. Farnborough ...	1026·6	+0	NW'W	4	c+	47	65	7	4000	Cu	6	CiCu	5	0	1026·7	+1	NW	4	b-	45	75	7	–	–	0	–	0	*
London (Kew Obsy.) ...	1025·3	-1	NW	4	o+	47	65	7	2500	StCu	9	–	9	0	1026·4	+1	WNW	3	b	45	75	7	–	–	0	–	0	*
Croydon	1025·4	-1	WNW	4	o+	47	65	6	2500	Cu	9	–	9	1	1026·3	+2	NWW	4	b	43	75	6	–	–	0	–	0	*
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023·1	+2	WNW	4	bc-	45	75	6	2500	Cu	5	–	5	1
Shoeburyness	1023·4	+1	NW	5	b-	47	85	7	5700	Cu	1	–	1	*	1024·3	+1	NW	5	b+	43	85	7	4000	StCu	3	–	3	*
Grain	1023·7	-1	WNW	5	c+	47	75	7	2500	Cu	1	Ci	2	1	1024·8	+2	WNW	5	b	43	85	7	–	–	0	Ci	2	3
Lympne	1024·0	-1	NW	6	bc	46	75	6	2500	Cu	1	CiSt	4	1	1024·1	+1	NW	4	b	42	75	6	–	–	0	ASt	1	*
Scilly (St. Mary's) ...	1034·6	0	NW	3	b	50	65	8	4000	Cu	3	–	3	*	1033·3	-1	NNW	3	b-	48	75	8	4000	StCu	1	–	1	4
Falmouth (Pendennis)	1033·9	0	NNW	3	bc	49	65	8	4000	Cu	6	–	6	*	1033·4	0	NNW	3	bc	47	75	8	4000	Cu	6	–	6	0
Plymouth (Cattewater)	1032·3	0	NW	3	bc+	49	65	8	4000	StCu	6	–	6	0	1032·0	+1	–	0	b-	46	85	8	4000	Cu	1	–	1	0
Portland Bill ...	1030·1	+3	NW'W	6	o	49	75	7	1500	StCu	10	–	10	*	1030·1	0	NW	6	b-	49	75	7	–	–	0	CiCu	3	5
Southampton (Calshot)	1027·4	-2	WNW	5	o	48	75	8	4000	StCu	3	CiSt	9	0	1028·1	+1	W'N	4	b-	43	85	8	–	–	0	–	0	0
Dungeness	1024·0	+1	NNW	4	bc	47	75	8	–	–	0	ACu	4	*	1024·5	+1	N	4	b	42	92	8	–	–	0	–	0	4
Jersey 7h / Guernsey 1h ...	1030·7	0	NW	4	bc	50	65	7	–	–	0	ACu	4	*	1029·8	0	NW	4	b	49	75	7	–	–	0	ACu	3	3

LONDON OBSERVATIONS.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Temperature: Max. °F.	Temperature: Min. °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. %
	24 Hours ended 0900 G.M.T. 7th								Yesterday.		To-day.
Kew } 24 hours ended 0700	b.bc.c.o	b.bc.b	b@.bmx	*	*	27	-	-	2·4	*	*
Croydon }	c.bbcmz	o₃.b	b@.cmx	*	*	29	-	-	2·4	*	*
Greenwich (Royal Obsy.) ..	bc.c	c.b	b.bco₂@	47	35	28	-	-	1·7	72	95
City (Bunhill Row) ..	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	49	35	24	-	-	1·5	76	91
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	2·1	*	*
Camden Square.. ..	bc	*	*	48	37	33	-	-	*	*	93
Kensington Palace ..	co	o b. bc	*	48	36	27	-	-	*	77 (18h)	93
Hampstead Observatory ..	*	*	*						3·3		

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 6

South Kensington			
Max.	Time.	Min.	Time.
0·6	1700 5th / 0800 6th	<0·3	2400 5th / 0500 6th

Kew Observatory			
Max.	Time.	Min.	Time.
0·4	1700 5th	<0·3	0200 6th to 0600 6th
0·9	0900 6th		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 6th 17 h. 00 m. to 7th 06 h. 30 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 30	12 54	94
δ Ursae Minoris	13 30	12 17	89

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	c	5	6	175
18h.	c	5	–	20
01h.	c	3	-	-
07h.	c	4	7	25

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

7th & 8th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.51 / 7.52	11.45 / 11.45	3.39 / 3.38
Greenwich ...	7.53 / 7.54	11.52 / 11.52	3.51 / 3.50
Wick ...	8.49 / 8.50	12.4 / 12.4	3.19 / 3.18
Valencia ...	8.37 / 8.38	12.33 / 12.33	4.29 / 4.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r_or_o = continuous light rain.

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.

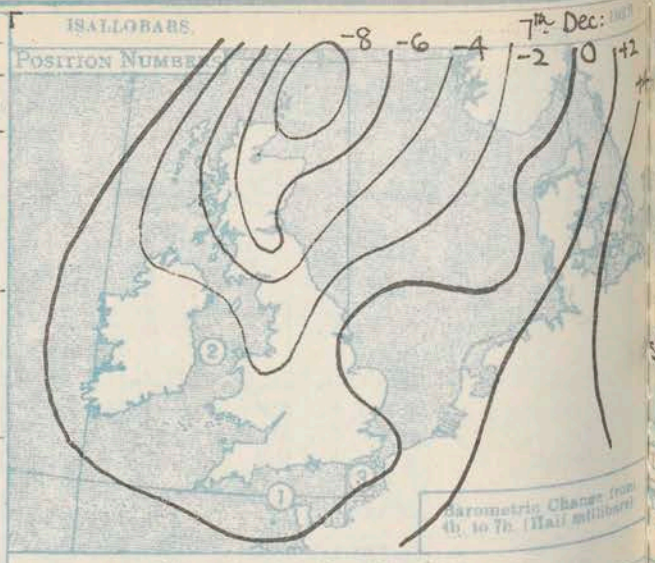
SEA DISTURBANCE.
0 = no swell }
1 = mod. swell } Calm or slight sea.
2 = heavy swell }
3 = no swell }
4 = mod. swell } Moderate sea.
5 = heavy swell }
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 6h.	13h.-18h. 6h.	18h. 6h. to 1h. 7h.	1h.-7h. 7h.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 6th Hours.
Lerwick	bcprh	cq	omr	omr	42	38	•	0·6	9	L0800	L21·00	1·9
Stornoway	p	c	c	c/p.r	46	43	•	2	3	—	-	0·5
Wick	c	cP	or.r.	or.r.	45	40	•	1	2	L0800	L21·00	•
Castlebay	cope.	c0					•	0·1		—		
Nairn	c	q	cq	oiq	45	42	•	1	0·2	0900	•	0·3
Aberdeen	prs.	bcqb	b.bc.c.o	o.ocr.	44	40	36	0·6	0·1	L0800	5·30	1·1
Malin Head	cop.z	coz	c.cf	o	49	47	•	0·3	trace	L0800	6·30	0·4
Renfrew	bccoo	ocobcb	oz	oo	46	38	28	—	-	—	-	1·3
Edinburgh(Inchkeith)	c	c	oo	c	47	41	38	—	-	—	-	3·3
Leuchars	b-bc	borbc	b.bc	b.bc	46	38	32	—	-	—	-	2·7
Eskdalemuir	bc	bc b	bc.c.o	c.o	44	35	30	—	-	—	-	2·7
Tynemouth	bcmq	m	b.bc.m	bcm	47	38	34	—	-	—	-	
Blacksod Point ...							•					•
Donaghadee	bcqp	bc	c.o	bc	50	38	•	1	-	L0800	-	•
Birr Castle ...												
Holyhead	oip.o	ocbcb	b.bc.o.b	b.bc	49	46	44	Trace	-	1100	-	0·3
Liverpool (Bidston) ...	op'bco	o	bm		47	43	35	0·5	-	1100	-	0·3
Chester (Shotwick) ...	copcq	opr cbo	bq.bcm	b.bc.cm	47	42	25	1	-	L0800	-	•
Spurn Head	bcq	bcq	c	o.c	45	39	•	—	-	—	-	4·8
Nottingham	c	c	b	b.bc.m	48	35	31	—	-	—	-	0·0
Cranwell	bcbm	c	b.bc.cm	o.cm	47	32	28	—	-	—	-	4·2
Gorleston	bcbq	bbc cq	bq.p.	bc.cq.p	47	39	36	—	1	—	L21·00	4·5
Valencia (Cahirciveen)		bbco	b	oo	49	?	35	—	-	—	-	3·9
Roches Point							•					•
Pembroke(St.Ann's H.)	c	c	b.bc	b.bc	48	44	•	—	-	—	-	4·0
Ross-on-Wye	oco	Cocbc	b.bc.b	b.bcx	48	34	28	—	-	—	-	0·1
Benson...	bc c	bc	bc.b	bc.bx	47	28	21	—	-	—	-	•
Andover	c	cbcb	b.bc	bc.b	48	32	25	—	-	—	-	2·0
S. Farnborough ...	cbc	crocb	b	bx	48	30	21	—	-	—	-	3·9
London (Kew Obsy.)...	bbcco	obbcb	b.b w	bmx	48	36	24	—	-	—	-	2·4
Croydon	cbbcmz	o3b	b.bcbrw	bc.omx	47	35	29	—	-	—	-	2·4
Clacton-on-Sea ...	cbc	bccbc	bc	bc.c	49	39	32	—	-	—	-	5·0
Shoeburyness	cbcb	b	b	o.c	51	35	30	—	-	—	-	5·0
Grain	cbcbb	bbcb	b.bo	o.c	47	35	31	—	-	—	-	4·9
Lympne	cbcbc	bcmqbc	omr	b.bcmw	46	34	29	—	-	—	-	4·1
Scilly (St. Mary's) ...	bc	bc cb	bc	bc.c.o	50	45	•	—	-	—	-	3·4
Falmouth (Pendennis)	bcq	boq		b	50	43	•	—	-	—	-	4·4
Plymouth(Cattewater)	bc	bc b	b	b	50	41	33	—	-	—	-	3·2
Portland Bill	c	cbc	c	b.bc	50	42	•	—	-	—	-	•
Southampton(Calshot)	oo	bbc o	b.bc.c.o	ox.c	48	35	31	—	-	—	-	1·6
Dungeness ...	b-bc	b bc	b.bc	b.bc	49	35	•	—	-	—	-	•
Jersey 7h } Guernsey 1h }	bc	bc cb	bc	bc.c	51	42	•	—	-	—	-	1·8



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Pressure
2	6th 1000	Anglia	WNW	6	c	46	51	8
3	7th 0300	Brighton	NNW	6	bc-	44	48	8

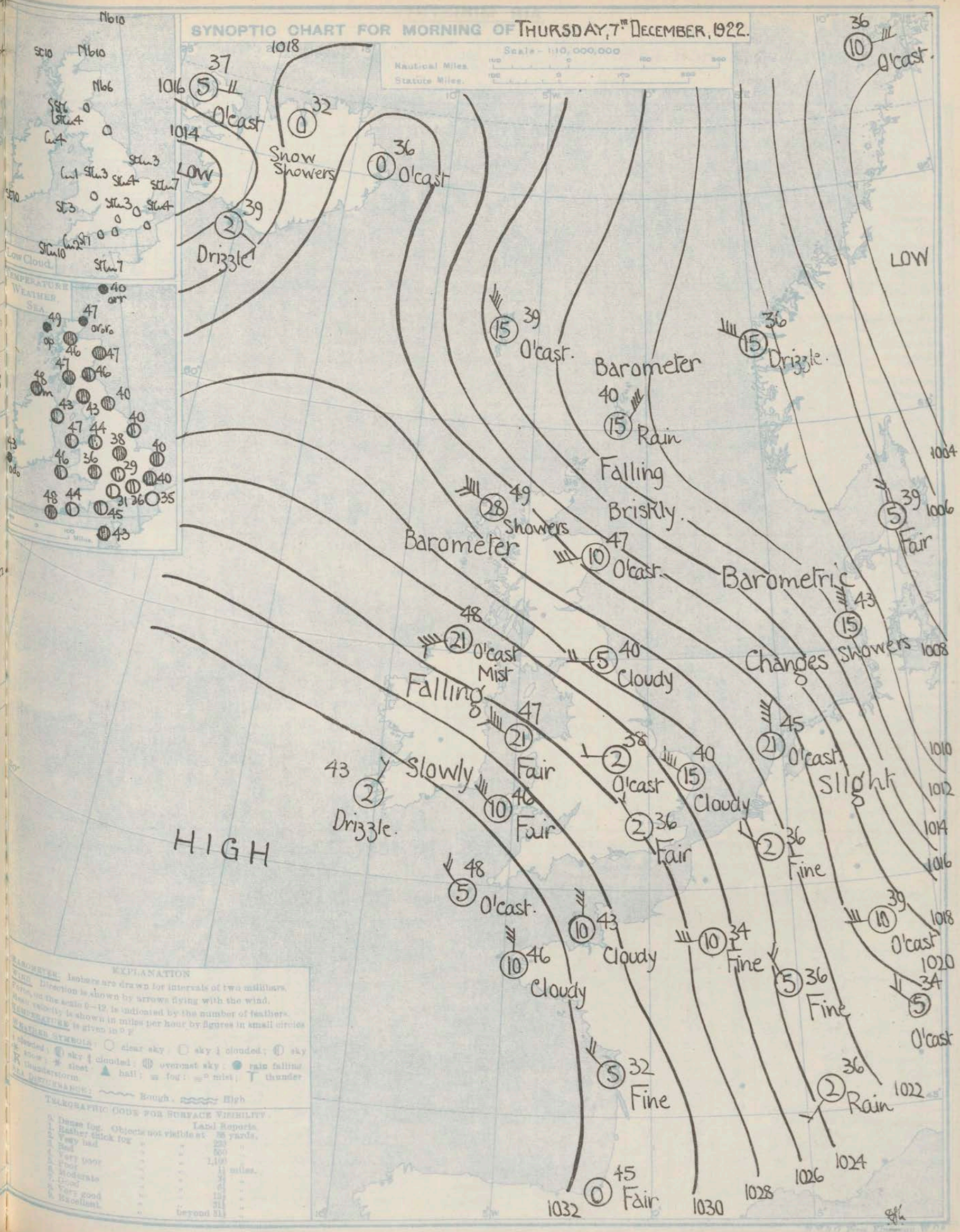
GENERAL INFERENCE.

Pressure continues high off our southwest coasts and weather will continue mainly fair in the southern districts. Secondary depressions will maintain rather unsettles conditions in the North.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday 7th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind W to N.W moderate to fresh, strong at times on the coast; cloudy; visibility mainly good but some mist at night; rather cold.	Withheld.
4. W. Midlands 5. S.W. England 6. South Wales	Light or moderate N.W. wind; fair generally; visibility mainly good; moderate temperature.	
7. North Wales 8. N.W. England 9. N. Midlands	Wind N.W. moderate to strong; cloudy, probably some rain; visibility mainly good; rather colder.	
▲10. N.E. England ▲11. E. Scotland	Wind between W and N fresh or strong; dull some rain or sleet; visibility mainly good; rather colder.	
12. S.W. Scotland 13. Isle of Man	As for 7 to 9	
14. N.&N.W. Scotland 15. Hebrides ▲16. Orkneys and Shetlands	Wind N.W. or N backing later fresh or strong, then moderating; raining at first, bright intervals and sleet showers later; colder.	▲ North cone hoisted 0930 this morning.
17. N.W. Ireland 18. N.E. Ireland	Moderate W to N.W. wind; cloudy some showers; visibility moderate to good; moderate temperature.	
19. S.E. Ireland 20. S.W. Ireland	Light winds mainly N.W.; cloudy; some mist; day temperature moderate, rather cold at night.	

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

§ For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF THURSDAY, 7th DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Low Cloud
Temperature
Weather
Sea
LOW
HIGH
Snow Showers
Drizzle
O'cast
Barometer
Falling
Briskly
Slowly
Showers
Mist
Fair
Cloudy
Changes
Slight
Fine
Rain
Barometric
EXPLANATION
BAROMETER: Isobars are drawn for intervals of two millibars.
WIND: Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers.
Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in °F.
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunderstorm; thunder.
SEA DISTURBANCE: Rough; High
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog " " 220 "
2. Very bad " " 500 "
3. Bad " " 1,100 "
4. Very poor " " 1,100 "
5. Poor " " 1½ miles.
6. Moderate " " 3 "
7. Good " " 6 "
8. Very good " " 12 "
9. Excellent. " " 24 "
" beyond 24 "

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Thursday, 7th DECEMBER 1922. No. 341

Observations at 0100 G.M.T. 7th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1019·5	-2	WNW	4	or	40	85	6	4000	Nb	10	-	10	•
Stornoway	1026·3	-2	NW	3	co	•	•	5	•	•	•	•	•	•
Wick	1022·8	+1	W	1	or	42	94	8	2500	CuNb	10	-	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1030·1	0	W	3	c	48	85	8	5400	Nb	2	A Cu	8	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1026·4	0	W	3	0+	43	95	9	•	St	3	Ci St	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1026·5	0	WNW	2	b	39	86	6	-	-	0	A Cu	3	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1030·6	0	NNW	5	b	48	85	8	-	-	0	A St	2	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1025·4	+1	WNW	6	0	41	94	9	-	-	0	A Cu	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1028·1	+2	NNW	3	0+	35	92	6	4000	St Cu	9	-	9	•
Gorleston	1023·8	+1	NW	5	b	41	85	9	4000	Cu	2	-	2	•
Valencia (Cahirciveen)	1034·9	-1	-	0	b	44	85	8						•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1033·2	-1	NW	3	b	46	95	8	-	-	0	-	0	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	40	•	•	•	•	•	•	•	•
Croydon	1028·2	+1	W	2	bc+	39	92	6	-	-	0	A Cu	6	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1026·4	+2	NNW	5	b	38	92	6	-	-	0	-	0	•
Scilly (St. Mary's) ...	1034·6	0	NNW	2	b	46	85	8	4000	Cu	2	-	2	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1030·6	+1	N	5	b	44	85	9	-	-	0	A Cu	3	•
Southampton (Calshot)	1030·0	+1	NW	4	0+	42	85	8	-	-	0	A Cu	9	•
Dungeness	1026·2	0	N	4	b	49	85	8	-	-	0	-	0	•
Jersey 7h }	1029·9	+1	NNW	5	0	48	85	9	9200	Cu	2	A Cu	9	•
Guernsey 1h }														

Observations at 0700 G.M.T. 7th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1015·4	-8	NE	4	or	40	94	6	4000	Nb	10	-	10	3
Stornoway	1020·9	-2	NW	6	opr	49	92	6	450	St	10	-	10	4
Wick	1015·5	-8	NW	3	or	44	94	8	2500	Nb	10	-	10	0
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	1018·8	•	WNW	1	0+	46	92	9	1500	St	10	-	10	•
Aberdeen	1019·1	-6	WSW	3	or	44	85	9	2500	Nb	9	-	9	0
Malin Head	1026·8	-3	W	5	mo	48	97	6	1500	St	3	A St	10	6
Renfrew	1024·4	-4	SW	3	0	44	85	9	2500	St	10	-	10	•
Edinburgh (Inchkeith)	1021·8	-4	W	5	bc	46	85	8	•	-	0	Ci St	6	4
Leuchars	1021·4	-4	SW	3	c	45	85	8	4000	St Cu	5	Ci St	7	•
Eskdalemuir	1024·4	-4	WNW	6	0	43	85	6	1500	St Cu	9	-	9	•
Tynemouth	1023·5	-4	W	2	c+	40	94	6	-	-	0	A Cu	8	1
Blacksod Point ...	1028·1	-1	WNW	1	bc	43	85	8	4000	Cu	4	A Cu	3	0
Donaghadee														•
Birr Castle														•
Holyhead	1029·4	-1	WNW	5	b	44	85	8	2500	Cu	1	A St	3	4
Liverpool (Bidston) ...	1028·0	-2	W'N	4	bt	44	92	9	2500	St	1	A St	3	5
Chester (Shotwick) ...	1028·5	-2	WNW	3	c+	44	92	4	4000	St Cu	3	Ci	8	•
Spurn Head	1024·5	+1	W	5	bc	40	85	6	4000	St Cu	3	A Cu	6	5
Nottingham	1024·5	•	W	1	0+	38	92	2	2500	St Cu	4	A Cu	10	•
Cranwell	1024·4	0	WSW	3	c-	32	94	6	4000	St Cu	4	A St	4	•
Gorleston	1024·9	+1	NW	4	c/r	40	92	6	4200	St Cu	4	-	4	1
Valencia (Cahirciveen)	1033·5	-1	NE'N	1	od	43	92	6	800	St	10	-	10	1
Roches Point														•
Pembroke (St. Ann's H.)	1031·9	-1	NW	3	b	46	95	8	1500	St	3	-	3	3
Ross-on-Wye	1029·8	-1	WSW	1	c+	36	92	4	-	-	0	Ci	8	•
Benson...	1029·1	0	NW	1	bc	29	92	8	•	St Cu	3	Ci	5	•
Andover	1029·9	0	WNW	3	b	35	94	8	2500	St	1	Ci St	3	•
S. Farnborough ...	1030·2	0	W	2	b	31	94	6	-	-	0	Ci St	2	•
London (Kew Obsy.) ...	1028·6	0	NW	1	bt	36	94	5	-	-	0	Ci St	3	•
Croydon	1028·6	0	SW'S	2	0+	35	94	5	-	-	0	Ci St	9	1
Clacton-on-Sea ...	1026·4	0	WNW	4	c+	40	85	6	4200	St Cu	4	A St	4	•
Shoeburyness	1024·5	0	WSW	2	b	34	94	4	4000	Cu	1	Ci Cu	3	0
Grain	1024·4	0	W	4	c-	35	92	4	-	-	0	Ci St	4	•
Lympne	1024·4	+1	NW	3	bc	35	85	6	-	-	0	A Cu	5	•
Scilly (St. Mary's) ...	1033·1	0	NW	2	0	48	95	8	4000	St Cu	10	-	10	4
Falmouth (Pendennis)	1033·3	0	NW	3	b	44	92	8	4000	Cu	2	-	2	0
Plymouth (Cattewater)	1032·2	0	N	3	b+	42	94	4	1500	St	1	-	1	0
Portland Bill	1030·6	0	NNW	4	b	45	85	4	-	-	0	Ci Cu	3	2
Southampton (Calshot)	1030·1	0	NW'W	3	c-	34	92	4	-	-	0	Ci St	4	0
Dungeness	1028·3	+1	NW'N	3	b	36	94	8	-	-	0	-	0	3
Jersey 7h }	1030·9	0	N	3	c	43	85	4	4000	St Cu	4	-	4	0
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 5-6 °F.	Temperature. Max. Day 6 °F.	Rainfall.† Night 17h.-9h. 5-6 mm.	Rainfall.† Day 9h.-17h. 6 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 6 hr.
Banff								
Montrose	*	*	41	46	-	0·1		4·0
Llandudno	cpo	oc	42	49	0·3	0·1		0·0
Colwyn Bay ...	c	c	45	48	-	-		0·0
Rhyl...	c	c	46	48	-	-		0·3
Southport	cbcc	cbcb	43	47	1	-		1·0
Blackpool	pc	bcb	43	48	2	-		1·5
Harrogate	b	b	41	45	1	-		3·8
Skegness	b	b	41	49	-	-		5·7
Aberystwyth ...	occ	o	46	50	-	-		0·4
Bath	o	ocbcb	43	49	-	-		0·0
Leamington Spa ...	cb	cb	43	46	-	-		0·2
Lowestoft	bcbb	bbbc	41	46	0·3	-		5·5
Felixstowe	b	bbc	42	47	-	-		5·7
Southend	bc	bc	40	48	-	-		4·6
Paignton	bb	ccb	41	50	-	-		1·8
Ilfracombe	bbcc	cbcb	46	49	0·1	-		1·1
Bude	bcbc	bcbcb	46	50	-	-		3·9
Penzance	bc	bc	44	52	1	-		5·6
Falmouth Observatory	bc	bc	42	50	0·2	-		4·1
Torquay	bc	b	41	50	-	-		1·8
Weymouth ...	c	cbc	42	50	-	-		0·7
Bournemouth ...	bc	bc	41	48	-	-		1·3
Portsmouth (S'thsea)	cb	bc	43	49	-	-		2·2
Worthing	cbc	bc	43	48	-	-		3·6
Brighton	b	bbc	42	48	-	-		4·6
Eastbourne	bc	bc	41	48	-	-		5·3
Hastings	bccb	bbcc	38	47	-	-		7·2
Folkestone	b	b	42	50	-	-		4·9
Tunbridge Wells ...	bbc	bbc	41	47	-	-		4·3
Ramsgate	bcb	bbc	41	46	-	-		4·5
Margate	b	b	42	47	-	-		2·8
Deal	cbc	bb	42	49	-	-		4·5

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.88296 FRIDAY, 8th DECEMBER 1922.

Observations at 1800 G.M.T. 7th

STATIONS.	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	State of ground.
Lerwick	1014·6	+4	NNE	3	cpr₀	39	85	7	4000	CuNb	3	Ci	7	*
Stornoway	1020·6	0	NW	4	opr₀	50	92	0	450	St	10	·	10	*
Wick	1015·1	+1	NNW	6	or	46	97	7	2500	Nb	10	·	10	*
Castlebay	1023·5	-1	W	3	c	50	92	7	1500	StCu	8	·	8	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1016·4	-2	NW	4	0	50	85	7	1800	StCu	9	·	9	1
Malin Head	1024·9	-1	W'N	4	bc/r	49	97	7	450	St	3	ACu	5	*
Renfrew	1021·3	-2	WNW	3	0	52	75	8	2500	Nb	8	Ci	9	1
Edinburgh (Inchkeith)	1018·4	-3	W	4	bc	49	75	7	*	St	4	CiSt	5	*
Leuchars	1017·6	-3	WNW	4	c	51	75	8	4000	StCu	7	·	7	0
Eskdalemuir	1020·8	-4	WNW	5	bc/r	47	85	8	2500	StCu	4	CiSt	5	1
Tynemouth	1019·6	-4	W	3	o/p	47	92	6	4000	Nb	9	-	9	*
Blacksod Point ...														*
Donaghadee	1025·0	-3	W	2	od₀	47	92	7	2500	St	10	·	10	*
Birr Castle	1029·7	*	SW	1	od₀	47	97	7	2500	Nb	10	·	10	*
Holyhead	1026·8	-5	W	5	c	48	92	8	1500	St	5	CiCu	7	0
Liverpool (Bidston) ...	1024·0	-5	W	6	opr₀	45	85	7	800	Nb	10	·	10	*
Chester (Shotwick) ...	1025·2	-6	W	5	0	47	85	6	2500	StCu	10	·	10	1
Spurn Head	1018·5	-6	WNW	6	0	47	92	6	4000	StCu	10	·	10	*
Nottingham	1023·8	*	WNW	5	0	47	85	6	1500	StCu	9	·	9	*
Cranwell	1023·5	-4	NW'W	5	0	46	75	7	2500	StCu	7	ACu	9	0
Gorleston	1021·9	-1	NW'W	4	mc+	44	85	5	7200	StCu	7	·	7	*
Valencia (Cahirciveen)	1031·2	-4	WSW	4	bc-	50	92	6	800	St	6	·	6	1
Roches Point														*
Pembroke (St. Ann's H.)	1030·0	-2	NW	4	mo	46	85	6	800	St	10	·	10	*
Ross-on-Wye	1026·8	-4	WNW	4	o	47	75	8	2500	StCu	10	·	10	0
Benson	1026·5	-4	WNW	3	o	43	85	7	-	StCu	10	-	10	0
Andover	1027·0	-3	W	3	c+	46	85	6	4000	StCu	6	CiSt	8	0
S. Farnborough ...	1026·5	-3	W'N	3	mmo	46	75	6	-	-	0	Ci	9	1
London (Kew Obsy.) ...	1025·7	-5	NW	3	o	45	75	5	5700	StCu	9	ACu	10	0
Croydon	1026·2	-4	W	3	o	42	85	5	5700	StCu	10	·	10	0
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1023·9	-4	WSW	5	mo+	45	85	6	4000	StCu	9	·	9	*
Grain	1024·6	-6	W	5	fto	44	85	3	4000	StCu	10	·	10	1
Lympne	1024·9	-5	W'N	3	b-	42	85	5	1500	St	2	·	2	0
Scilly (St. Mary's) ...	1032·4	-1	WNW	4	o	48	75	8	4000	StCu	10	·	10	*
Falmouth (Pendennis)	1031·8	-2	NWW	4	o+	48	75	7	4000	Cu	10	·	10	*
Plymouth (Cattewater)	1030·5	-3	W'N	3	o	47	85	7	4000	StCu	10	·	10	0
Portland Bill	1028·3	-3	WNW	4	bc+	49	75	7	-	-	0	ACu	5	*
Southampton (Calshot)	1027·3	-4	W'N	4	bc-	48	85	8	4000	StCu	4	CiSt	6	0
Dungeness	1024·9	-5	WSW	4	bc+	46	85	8	4000	Cu	3	CiCu	3	*
Jersey 7h.	1029·7	0	WNW	3	b	52	75	7	4000	StCu	2	-	2	*
Guernsey 1h.														

Observations at 1800 G.M.T. 7th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	1017·5	+2	N	4	cpr₀	35	92	6	4000	Nb	7	-	7	3
Stornoway	1020·3	0	NW	3	c-	43	92	6	4000	Cu	7	-	7	2
Wick	1018·0	+4	NNW	6	o/r	43	85	8	4000	Nb	10	-	10	6
Castlebay	1021·8	0	W	2	o	50	92	6	1500	St	10	-	10	2
Nairn	1018·1	*	-	0	or	45	92	7	2500	Nb	10	-	10	*
Aberdeen	1018·1	+4	NNW	2	or₀	44	97	7	1500	Nb	10	-	10	0
Malin Head	1023·5	-2	W	3	bcOD	48	97	7	1500	St	5	-	5	4
Renfrew	1020·5	0	W	3	o/r	49	75	8	2500	StCu	9	-	9	*
Edinburgh (Inchkeith)	1018·0	+1	W	4	b-	48	85	8	-	StCu	3	-	3	3
Leuchars	1017·3	+1	WNW	4	o/r	50	75	8	1500	St	9	-	9	*
Eskdalemuir	1019·7	0	WNW	5	bc-	45	85	7	2500	StCu	4	-	4	*
Tynemouth	1017·1	0	NW	2	c/or₀	47	92	6	3000	Nb	8	-	8	0
Blacksod Point ...														*
Donaghadee	1023·2	-1	NW	3	c	49	92	8	4000	CuNb	2	ACu	7	2
Birr Castle	1027·5	*	WSW	1	oD	48	97	6	800	Nb	10	-	10	*
Holyhead	1024·2	-2	WNW	6	o	50	92	8	1500	St	10	-	10	5
Liverpool (Bidston) ...	1021·8	-1	W	6	bc-	47	92	8	2500	Cu	2	ASt	4	7
Chester (Shotwick) ...	1022·4	-1	W	5	bc-	48	92	7	4000	StCu	4	-	4	
Spurn Head	1015·8	-3	WNW	6	o	46	92	6	-	-	0	ASt	10	5
Nottingham	1019·4	*	WNW	3	b-	48	85	6	-	-	0	-	0	*
Cranwell	1019·1	-4	W'N	4	o-	43	97	6	800	St	9	-	9	
Gorleston	1017·6	-3	WNW	5	or₀	45	85	6	4000	Nb	10	-	10	4
Valencia (Cahirciveen)	1019·6	-1	W'S	3	od₀	50	97	6	450	St	10	-	10	4
Roches Point														
Pembroke (St. Ann's H.)	1027·6	-2	W	4	o	48	85	8	2500	St	10	-	10	*
Ross-on-Wye	1023·8	-3	WNW	4	od₀	47	85	8	2500	Nb	10	-	10	*
Benson	1023·7	-4	WNW	3	o	45	85	7	-	St	10	-	10	*
Andover	1023·5	-3	W'S	4	o+	43	92	7	4000	StCu	10	-	10	*
S. Farnborough ...	1022·5	-5	WNW	4	bc+	44	85	7	-	StCu	6	-	6	*
London (Kew Obsy.) ...	1021·9	-3	NW	3	b-	45	75	6	-	-	0	ACu	3	*
Croydon	1022·6	-2	NE'E	3	b-	44	85	6	-	-	0	ASt	1	*
Clacton-on-Sea ...	1018·8	-3	W	4	c	44	85	6	7200	StCu	7	-	7	1
Shoeburyness	1019·7	-4	W	5	bc/r	45	85	7	2500	Cu	6	-	6	*
Grain	1020·0	-5	W	5	b-	45	75	6	2500	St	2	-	2	0
Lympne	1020·3	-4	NWW	4	o	43	85	6	1500	StCu	10	-	10	
Scilly (St. Mary's) ...	1030·5	-2	WNW	5	od₀d₀	48	85	7	4000	StCu	10	-	10	5
Falmouth (Pendennis)	1029·2	-4	WNW	4	o	47	85	7	4000	StCu	10	-	10	0
Plymouth (Cattewater)	1027·8	-4	NW	3	od₀	47	85	8	1500	St	10	-	10	0
Portland Bill	1025·2	-3	W'N	6	o+	47	75	7	450	St	10	-	10	4
Southampton (Calshot)	1023·4	-5	WSW	5	o	45	85	8	1500	StCu	10	-	10	0
Dungeness	1020·5	-5	WSW	3	o	44	92	7	4000	StCu	10	-	10	3
Jersey 7h.	1027·2	-1	WNW	3	c	49	75	7	4000	StCu	8	-	8	2
Guernsey 1h.														

LONDON OBSERVATIONS.

24 HOURS ENDED 0900 G.M.T. 8th

	Weather Morning.	Weather Afternoon.	Weather Night.	Temp. Max. °F.	Temp. Min. °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.
Kew	0mwom	o o	b3bcom	*	*	41	-	-	0·0	*	*
Croydon (24 hours ended 0700)	com	ac bc3	b0gfm	*	*	39	-	0·1	0·0	*	*
Greenwich (Royal Obsy.)	o	o.bc.	o.bc.o4m	47	36	39	-	*	0·0	74	93
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	48	?	35	0·7	*	0·0	77	97
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	*	*	*
Camden Square	b	c	*	47	38	35	-	0·5	*	*	95
Kensington Palace	co	o	*	48	37	37	-	0·4	*	76	92
Hampstead Observatory	*	*	*	46	35	29	-	1	0·3	*	98

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 7th

South Kensington

Max.	Time.	Min.	Time.
0·6	1800 6th	0·3	01 00 - 0600 (7th)
1·3	1100 7th		

Kew Observatory

Max.	Time.	Min.	Time.
0·4	1800 (6th)	0·3	2400 (6th)
1·0	0800 (7th)		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 7th Dec. 17h. 0m. to 8th 6h. 45m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	13 45	4 18	31
δ Ursae Minoris	13 46	3 12	23

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 today in 1300 & 1800 reports (floor 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.¹

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	c	6	-	15
07h.	c	4	-	170

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

8th & 9th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7·32 / 7·33	11·46 / 11·46	3·38 / 3·38
Greenwich ...	7·54 / 7·55	11·52 / 11·52	3·50 / 3·50
Wick	8·50 / 8·52	12·4 / 12·4	3·14 / 3·14
Valencia ...	8·23 / 8·27	12·33 / 12·33	4·28 / 4·28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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

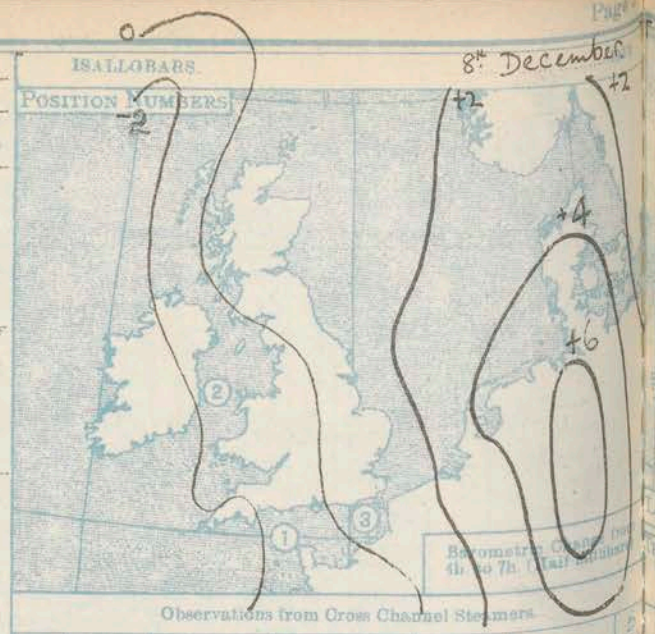
SEA DISTURBANCE.

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.

¹ For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 7½	13h.-18h. 7½	18h.-1h. 7½ to 1h. 8½	1h.-7h. 8½	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. Hours.
Lerwick	cqp	omp	bebrh	oc	40	33	•	2	0.4	13·30	<21·00	0·1
Stornoway	p	p	r.d	oo	50	40	•	1	3	–	-	0·0
Wick	oirq	oirq	c	c	49	33	•	2	-	<0800	-	•
Castlebay	co	oc	c.o	op.o	50	44	•	–	1	–	-	0·0
Nairn	ir	IR o	oir.c	cq	50	38	•	2	1	<0800	<21·00	0·0
Aberdeen	oirc	irir	oir.o	do	50	34	31	2	0·1	<0800	<21·00	0·1
Malin Head	towd	dcimd	oiMd	ir.iM	49	34	•	1	2	<0800	-	0·4
Renfrew	ocoid	oid	o.be.b	bc.om	52	41	35	Trace	-	<0800	-	1·4
Edinburgh (Inchkeith)	pbc	bc	id.r.r	or	50	41	39	–	3	–	22·00	1·4
Leuchars	c	rord	r.d		51	39	36	0·2	2	16·30	<21·00	0·8
Eskdalemuir	bc	bcc bc	c.o	oid.m	47	38	34	1	trace	<0800	04·30	1·2
Tynemouth	om	opom	irmq	oir.m	48	40	38	Trace	2	13·30	<21·00	•
Blacksod Point ...							•					•
Donaghadee	id	idco	c	d.c.	49	46	•	0·2	2	11·00	1·30	•
Birr Castle ...	oird	oID			49			1		09·00		
Holyhead	od.c	coa	ood	oair	50	48	44	Trace	0·4	11·00	24·00	0·5
Liverpool (Bidston) ...	cp.o	co	c.o.		48	44	36	–	-	–	-	0·0
Chester (Shotwick) ...	cmoo	op.rob	bc.cm	c.omf	48	45	41	Trace	-	14·30	•	•
Spurn Head	oq	cq oq	p	o.p	49	41	•	–	0·3	–	22·00	0·0
Nottingham	c	md.do	bc	cm	48	42	40	0·3	-	13·30	-	0·0
Cranwell	mm	p.r	od.z	opdo	46	40	39	Trace	0·4	15·30	22·00	0·5
Gorleston	cm	cmoqr	oirq	o.cq	45	39	35	0·2	0·4	15·30	<21·00	0·0
Valencia (Cahirciveen)	oddc	oid.m	od					0·5		0900		
Roches Point							•					•
Pembroke (St. Ann's H.)	bcc	oimd	oo	oo	49	48	•	–	-	–	-	0·2
Ross-on-Wye	cocbco	ogovq	or.id	or.oid	47	46	44	–	0·1	–	<21·00	0·4
Benson...	bco	o	o.bc	o	46	41	38	–	-	–	-	•
Andover	bbcc	co	ac.od	od	47	38	30	–	trace	–	<21·00	2·4
S. Farnborough ...	bccom	omobc			47			–		–		
London (Kew Obsy.)...	omwom	oo	bz.o.bc	bc.om	46	44	41	–	-	–	-	0·0
Croydon	com	ocbcm3	b.om	or.rm	46	43	39	–	0·1	–	05·30	0·0
Clacton-on-Sea ...	cm		cp.om	om.c	45	43	41	–	trace	0900	-	2·6
Shoeburyness	bbcom	ombc	c.opr	opr.c	45	40	40	–	0·6	–	<21·00	2·5
Grain	ccmo	cmob3	bz.opd	o.c.opo	45	41	38	–	0·6	–	<21·00	0·1
Lympne ...	bbecbcm	bcm	om.r	omir	44	41	39	–	1	–	<21·00	3·2
Scilly (St. Mary's)	oo	ord	bcep	cp	49	46	•	Trace	2	17·30	22·00	0·3
Falmouth (Pendennis)	bbco	o		od.o	48	46	•	–	1	–	<21·00	0·1
Plymouth (Cattewater)	oo	odo	od.o	od.o	49	44	44	Trace	trace	–	<21·00	0·1
Portland Bill ...	bcc	co	op	o	50	41	•	–	-	–	-	•
Southampton (Calshot)	c	oo	oid.cbc	c	?	42	39	–	trace	–	<21·00	2·4
Dungeness ...	c	c	c	or.r	46	42	•	–	0·1	–	<21·00	•
Jersey 7h } .. Guernsey 1h }	cb	bco	r.d	o.c.o	53	46	•	–	1	–	22·00	4·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Visibility.
1	1300 7½	Reindeer	WNW	5	bc+	58	52	7
3	0300 8th	Arundel	NNW	5	co-	48	50	4

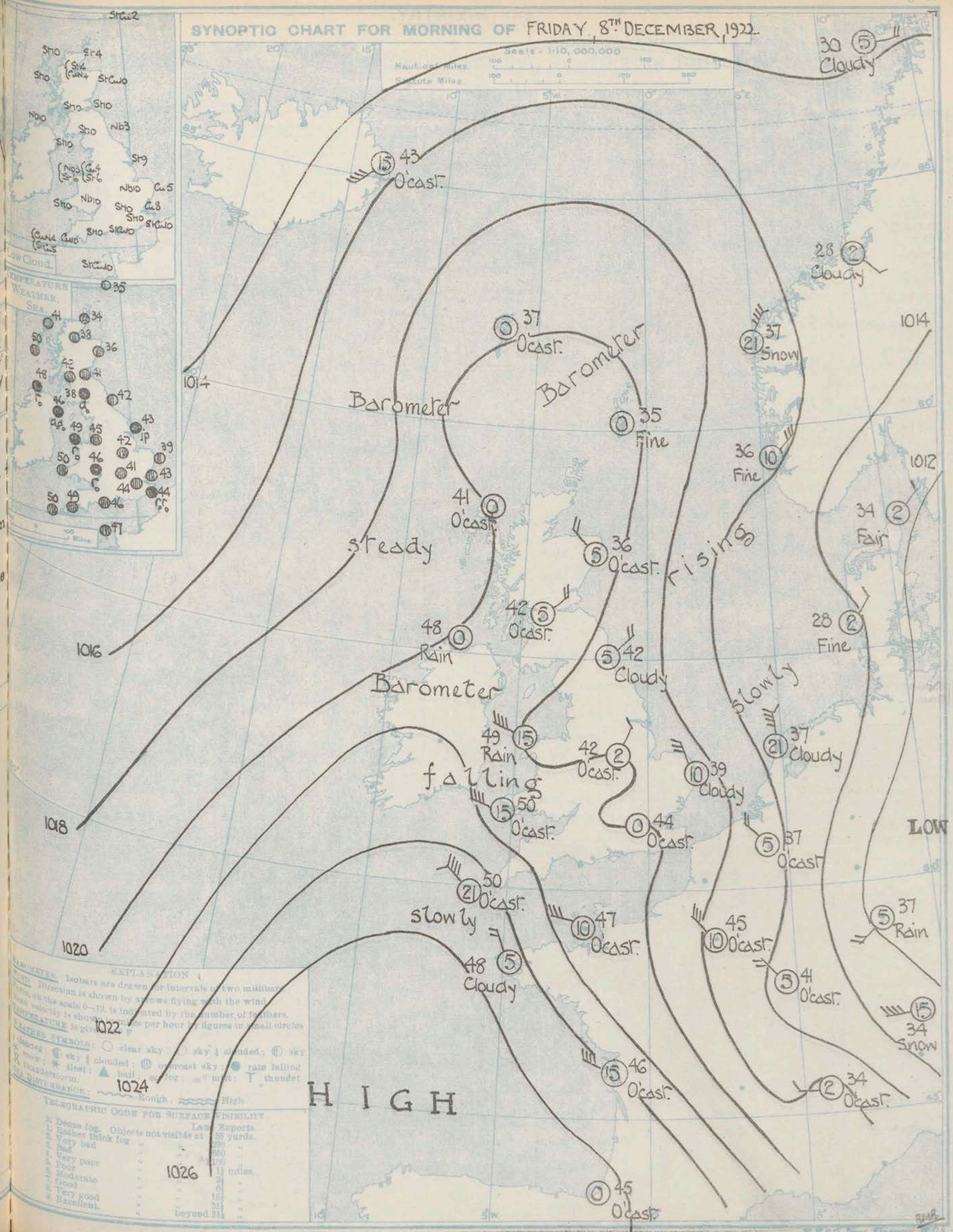
GENERAL INFERENCE.

A large depression is approaching our western coasts from the Atlantic and the anticyclone off our S.W. coasts has diminished in intensity. Conditions will be unsettled generally but no large amount of rain is probable in the southeastern districts.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Friday, 8th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light N.W. wind backing towards S.W; much cloud, some drizzle; mist in places; temperature moderate to rather mild.	Unsettled generally.
5. S.W. England 6. South Wales 7. North Wales	Wind W. to SW. moderate, freshening later; dull, some rain or drizzle; visibility moderate to good; mild.	
8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Light variable wind becoming southerly later; dull, some rain or drizzle; mist locally at night; milder.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind SW. to S. moderate to strong; dull some rain; visibility moderate to good; mild.	

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

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF FRIDAY, 8TH DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Low Cloud.
Temperature
Weather
Sea
Barometer
steady
falling
slowly
rising
LOW
HIGH
1014
1016
1018
1020
1022
1024
1026
1012
30 Cloudy
43 O'cast.
28 Cloudy
37 O'cast.
37 Snow
35 Fine
36 Fine
41 O'cast.
36 O'cast.
34 Fair
42 O'cast.
48 Rain
42 Cloudy
28 Fine
49 Rain
42 O'cast.
39 Cloudy
37 Cloudy
50 O'cast.
44 O'cast.
37 O'cast.
50 O'cast.
47 O'cast.
45 O'cast.
37 Rain
48 Cloudy
41 O'cast.
34 Snow
46 O'cast.
34 O'cast.
45 O'cast.
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Wind velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: Rough; High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog
2. Very bad
3. Bad
4. Very poor
5. Poor
6. Moderate
7. Good
8. Very good
9. Excellent.
11 miles
beyond 31½
H.M.S.O. Press, Kingsway, W.C.2

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. FRIDAY 8th DECEMBER 1922. No. 342.

Observations at 0100 G.M.T. 8th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1019.9	+2	N	2	5/p	35	85	7	4000	CuNb	2	ACu	3	•
Stornoway	1020.7	0	-	0	f/f	•	•	4	•	•	•	•	•	•
Wick	1019.8	0	NNW	2	C	39	85	8	4000	Cu	2	Ci	7	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1021.2	-1	W	3	0D-	49	97	5	4000	Nb	3	A St	10	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1020.4	+2	ESE	1	or	42	92	8	•	Nb	10	•	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1018.9	+2	NW	2	o/r	43	94	6	4000	Nb	10	-	10	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1022.0	-1	WNW	5	od	49	94	7	1500	StCu	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1014.8	+2	NW	4	o/r	43	94	7	4000	StCu	9	-	9	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1019.3	0	N'W	4	od	44	94	6	2500	St	10	-	10	•
Gorleston	1016.5	+1	N	5	o/r	45	92	7	5700	StCu	10	-	10	•
Valencia (Cahirciveen)	1026.9	-3	SW	2	0-	50	94	8	•	StCu	9	-	9	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1023.9	-2	WNW	4	0	50	85	8	4000	StCu	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	44	•	•	•	•	•	•	•	•
Croydon	1019.6	-2	W	2	0	44	85	7	2500	StCu	9	-	9	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1014.5	-1	NNW	5	o/r	46	92	6	4000	StCu	10	-	10	•
Scilly (St. Mary's) ...	1026.9	-2	NNW	5	90	48	92	7	4000	StCu	7	-	7	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1023.2	-2	NW	5	0+	46	95	7	450	St	10	-	10	•
Southampton (Calshot)	1021.2	-2	W	3	o/r	45	92	8	-	-	0	-	0	•
Dungeness	1018.0	-3	N	3	0	46	92	7	4000	StCu	10	-	10	•
Jersey 7h }	1024.7	-3	WNW	4	od	49	92	8	5700	Nb	6	A St	10	•
Guernsey 1h }														

Observations at 0700 G.M.T. 8th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1020.5	+1	-	0	b	35	85	7	5700	StCu	2	-	2	0
Stornoway	1020.0	0	-	0	0	41	94	6	500	St	10	-	10	0
Wick	1020.4	+1	WNW	2	0	34	85	8	300	St	4	Ci St	9	0
Castlebay	1019.6	0	-	0	o/r	50	92	6	1500	St	10	-	10	1
Nairn	1020.4	•	-	0	o/r	38	92	8	1500	St	8	-	8	•
Aberdeen	1020.7	+1	NW	2	0	36	92	6	4000	StCu	10	-	10	0
Malin Head	1020.0	0	-	0	or	48	94	5	5700	Nb	10	-	10	4
Renfrew	1020.4	+1	ENE	2	0	42	92	5	1500	St	10	-	10	•
Edinburgh (Inchkeith)	1020.6	+1	E	1	o/r	41	92	8	•	St	10	-	10	1
Leuchars	1020.3	+1	-	0	0	39	92	7	1500	St	10	-	10	•
Eskdalemuir	1020.5	0	NE	2	od	38	92	5	450	St	10	-	10	•
Tynemouth	1019.9	+1	NE	2	o/r	42	85	7	4000	Nb	3	A St	8	1
Blacksod Point ...	1020.1	-1	-	0	od	46	94	4	1500	St	10	-	10	0
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1020.0	-1	WNW	4	or	49	94	7	800	St	9	-	9	3
Liverpool (Bidston) ...	1019.8	0	W'N	2	0+	45	94	6	1500	St	10	-	10	•
Chester (Shotwick) ...	1019.9	-1	WNW	1	ff0	45	94	3	4000	StCu	7	ACu	10	•
Spurn Head	1019.2	+2	N	3	o/p	43	85	7	1500	St	9	-	9	5
Nottingham	1020.0	•	NNE	1	0	42	85	3	2500	Nb	10	-	10	•
Cranwell	1020.3	+1	NNW	3	0	41	94	6	2500	St	10	-	10	4
Gorleston	1018.6	+1	NNW	3	c	39	85	7	5700	Cu	5	Ci Cu	8	
Valencia (Cahirciveen)														
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1021.8	-2	WNW	4	0	50	85	7	1500	St	10	-	10	3
Ross-on-Wye	1020.7	-1	-	0	or+	46	92	8	2500	Nb	10	-	10	•
Benson...	1019.6	0	-	0	0	41	94	7	•	St	10	-	10	•
Andover	1020.5	-1	NWW	2	0	43	94	7	2500	StCu	9	-	9	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	1020.2	+1	-	0	0	44	85	6	2500	St	10	-	10	•
Croydon	1020.0	+1	NNE	2	0	43	92	5	1500	St	10	-	10	•
Clacton-on-Sea ...	1018.9	+2	NW	3	c	43	85	7	4000	Cu	8	-	8	1
Shoeburyness	1019.5	+1	N	1	o/r	42	85	7	2500	StCu	8	-	8	•
Grain	1019.6	+1	NNW	3	o/r	42	91	7	2500	StCu	10	-	10	0
Lympne	1019.0	+1	N	4	or	41	92	6	800	Nb	10	-	10	•
Scilly (St. Mary's) ...	1025.2	-2	NW	5	o/r	50	92	8	4000	StCu	9	-	9	5
Falmouth (Pendennis)	1024.3	-4	N	3	o/r	49	92	7	4000	Cu	10	-	10	0
Plymouth (Cattewater)	1022.7	-1	NW	1	od	49	85	7	1500	St	10	-	10	0
Portland Bill	1021.0	-3	WNW	5	0	46	85	7	450	St	10	-	10	4
Southampton (Calshot)	1020.5	-1	NW	2	0+	45	92	7	2500	StCu	10	-	10	0
Dungeness	1019.1	+1	N	2	or	44	92	8	4000	StCu	10	-	10	4
Jersey 7h }	1022.7	-1	WNW	3	o/r	47	92	7	4000	StCu	10	-	10	3
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 6-7 °F.	Temperature. Max. Day 7 °F.	Rainfall.† Night 17h.-9h. 6-7 mm.	Rainfall.† Day 9h.-17h. 7 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 7 hr.
Banff								
Montrose	-	-	41	52	-	1		0.0
Llandudno	o	ood	39	48	-	-		0.0
Colwyn Bay ...	c	d	43	48	-	-		0.0
Rhyl...	o	op	45	48	-	-		0.0
Southport	oco	oco	44	48	-	-		0.0
Blackpool	o	co	42	49	-	-		0.0
Harrogate	cb	bodb	37	49	-	-		1.0
Skegness	o	cbc	35	47	-	-		2.0
Aberystwyth ...	moc	o	45	50	-	-		0.0
Bath	mb	bbcco	33	48	-	-		1.3
Leamington Spa ...	oe	oe	36	46	-	-		0.0
Lowestoft	cop	-	35	45	1	-		0.3
Felixstowe	be	cou	35	45	-	-		2.3
Southend	tbcc	co	35	45	-	-		0.4
Paignton	bm	bcoo	38	50	-	-		2.6
Ilfracombe	co	od	47	49	-	0.3		0.3
Bude	oid	oido	40	50	-	-		0.2
Penzance	oc	o	42	49	-	-		0.0
Falmouth Observatory	oc	o	41	48	-	-		0.0
Torquay	b	bcco	41	50	-	-		2.6
Weymouth	bbc	co	38	49	-	-		2.4
Bournemouth ...	bc	bc	37	48	-	-		2.2
Portsmouth (S'thsea)	bo	bco	37	48	-	-		1.2
Worthing	co	co	37	47	-	-		0.3
Brighton	to	to	37	47	-	-		0.0
Eastbourne	c	o	39	46	-	-		0.6
Hastings	cbco	o	35	46	-	-		2.6
Folkestone	bc	bc	31	45	-	-		2.8
Tunbridge Wells ...	oco	oco	33	45	-	-		0.0
Ramsgate	bbc	bcc	41	46	-	-		1.5
Margate	c	o	40	45	-	-		0.0
Deal	bc	bmcm	35	45	-	-		2.5

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22,294 SATURDAY, 9th DECEMBER 1922.

Stations	Observations at 1800 G.M.T. 8th: 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	Upper Form.	Total Amt. 0-10	State of ground.	Observations at 1800 G.M.T. 9th: 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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	1020·5	0	WSW	1	o+	37	85	7	5700	StCu	9	–	9	*	1021·0	+2	W	2	o+	39	85	7	–	–	0	ASt	10	1
Stornoway	1020·7	+1	–	0	b–	47	92	7	4000	Cu	3	–	3	*	1021·5	+1	–	0	o+	41	97	5	800	St	10	–	10	0
Wick	1021·2	+1	WSW	1	bc–	38	85	8	–	–	0	Ci	4	*	1021·2	+1	WSW	1	o	35	92	8	–	–	0	ASt	10	0
Castlebay	1020·8	0	SE	2	o/r	49	85	8	1500	St	10	–	10	*	1022·8	+2	–	0	odd	48	97	4	1500	St	10	–	10	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022·5	*	W	1	b–	35	97	8	4000	Cu	3	–	3	*
Aberdeen	1021·8	–1	NW	2	b–	38	92	6	4000	StCu	1	Ci	2	1	1022·5	+1	NW	1	b	33	92	5	–	–	0	–	0	0
Malin Head	1020·6	+1	E	1	imc	47	97	7	5700	Nb	2	ACu	7	*	1022·0	+2	–	0	mmb	47	97	5	5700	Nb	2	–	2	3
Renfrew	1021·9	0	NE	2	mmo	43	85	4	2500	St	10	–	10	1	1023·7	+3	–	0	mmo	42	92	5	1500	St	10	–	10	*
Edinburgh (Inchkeith)	1022·3	+1	ESE	1	od₀	41	85	8	–	Nb	10	–	10	*	1022·6	+2	NE	1	o/r	42	85	7	–	St	10	–	10	1
Leuchars	1021·8	0	–	0	o	42	72	7	4000	StCu	10	–	10	5	1022·5	+1	–	0	o	39	92	7	2500	StCu	10	–	10	*
Eskdalemuir	1022·0	0	NE	2	o	41	85	7	2500	StCu	10	–	10	1	1023·4	+1	–	0	o	39	85	6	2500	StCu	10	–	10	*
Tynemouth	1021·6	+1	NNE	1	b	43	85	6	4000	CuNb	3	–	3	*	1022·4	+1	–	0	b	40	85	6	4000	CuNb	3	–	3	2
Blacksod Point														*														
Donaghadee	1021·0	+1	ESE	2	c–	47	92	8	–	–	0	CiCu	7	*	1022·2	+2	ESE	1	c+	46	85	8	–	–	0	ACu	8	1
Birr Castle	1021·7	*	W	1	DD	49	97	5	800	Nb	10	–	10	*	1021·7	*	W	1	o+	51	97	6	2500	Nb	9	–	9	*
Holyhead	1020·2	+0	E	2	o/r	47	97	8	800	Cu	5	ASt	10	2	1020·0	+3	NE'E	3	c–	46	97	6	1500	St	6	–	6	1
Liverpool (Bidston)	1020·5		ESE	3	od₀	43	92	4	800	Nb	10	–	10	*	1022·6	+3	ESE	2	o+	42	92	5	1500	CuNb	10	–	10	2
Chester (Shotwick)	1020·8	+1	SE	2	or₀r₀	43	92	6	800	Nb	10	–	10	2	1022·6	+3	SE	1	o	42	92	6	1500	St	10	–	10	
Spurn Head	1020·8	+1	NW	3	c	43	85	7	4000	CuNb	8	–	8	*	1022·1	+2	N	1	b–	40	92	8	4000	StCu	1	–	1	*
Nottingham	1021·1	*	ESE	1	o	44	85	7	2500	StCu	10	–	10	*	1022·6	*	ENE	1	o	39	92	7	–	–	0	ACu	10	*
Cranwell	1021·9	0	NE'E	1	o	41	85	7	4000	StCu	6	ACu	8	0	1023·1	+3	N	1	b–	34	97	6	2500	StCu	3	–	3	
Gorleston	1020·5	+1	NNE	4	be–	44	75	7	5700	Cu	2	Ci	4	*	1021·7	+1	NNW	3	b	37	85	6	4000	St	3	–	3	2
Valencia (Cahirciveen)	1023·0	–3	NW'W	4	o/r	51	92	7	800	St	9	–	9	1	1022·9	0	NNW	2	bc–	49	92	8	2500	StCu	4	–	4	3
Roches Point														*														
Pembroke (St. Ann's H.)	1020·8	–3	N	2	or	49	97	6	1500	Nb	10	–	10	*	1020·7	0	W	2	odd₀	48	97	8	1500	Nb	10	–	10	
Ross-on-Wye	1020·5	–1	–	0	or₀+	46	92	5	800	Nb	10	–	10	1	1021·7	+2	E'S	2	mmo	41	97	4	1500	St	10	–	10	*
Benson	1021·0	0	–	0	o/r	42	92	7	–	–	0	–	0	1	1022·3	+1	–	0	o/r	39	97	7	–	St	10	–	10	*
Andover	1020·7	0	ENE	2	od₀d₀	42	97	6	1500	Nb	10	–	10	1	1021·8	+1	NE'E	2	o/r	40	97	6	1500	Nb	10	–	10	*
S. Farnborough	1020·8	0	–	0	mmo	42	98	5	800	Nb	10	–	10	1	1021·8	+1	–	0	mmo	40	97	5	800	St	10	–	10	*
London (Kew Obsy.)	1020·9	–1	NNW	1	mmo	43	92	4	2500	Nb	10	–	10	1	1022·0	+2	N	1	o	42	85	4	2500	St	10	–	10	*
Croydon	1021·1	0	–	0	o/r	42	92	3	800	St	10	–	10	2	1022·3	+3	–	0	fo+	39	92	2	800	St	10	–	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021·4	+2	N	2	mbc–	39	85	4	2500	Cu	2	Ci	4	1
Shoeburyness	1020·7	+1	NE	2	b–	45	65	8	4000	Cu	1	Ci	3	*	1021·6	+1	–	0	b–	35	85	?	–	–	0	–	0	*
Grain	1020·9	0	NE	3	b–	44	75	7	4000	Cu	1	ACu	3	1	1022·5	+3	NNE	2	b–	35	92	7	–	–	0	–	0	0
Lympne	1020·4	–1	N	3	c	43	75	7	2500	Cu	4	Ci	7	1	1022·0	+2	NNE	3	b–	35	85	6	4000	StCu	2	–	2	*
Scilly (St. Mary's)	1023·6	–2	NW'W	5	c	53	85	7	4000	StCu	6	ACu	8	*	1022·2	–1	NW'W	4	od₀	51	92	7	2500	Nb	10	–	10	5
Falmouth (Pendennis)	1022·1	–2	NNW	3	opr₀	51	85	6	4000	CuNb	10	–	10	*	1021·0	–1	–	0	od₀d₀	50	85	6	4000	Nb	10	–	10	0
Plymouth (Cattewater)	1021·1	–3	NW	1	od₀	51	85	7	2500	CuNb	10	–	10	5	1020·7	0	–	0	o–	47	97	7	1500	St	10	–	10	0
Portland Bill	1020·6	–2	WNW	4	opr₀	49	85	6	450	St	10	–	10	*	1020·0	–3	NE	5	or₀r₀	47	85	6	450	St	10	–	10	4
Southampton (Calshot)	1020·1	–2	ENE	3	dd	48	85	5	800	St	10	–	10	1	1021·9	+2	NE	2	o/r	42	92	6	1500	St	10	–	10	0
Dungeness														*														
Jersey 7h	1010·6	+1	N	2	o–	40	97	8	–	StCu	10	–	10	*	1021·8	+1	N	2	o–	35	97	8	–	StCu	10	–	10	2
Guernsey 1h	1020·7	–1	WNW	3	o/r	50	92	7	4000	StCu	10	–	10		1020·9	0	W	3	o/r	48	97	7	2500	StCu	10	–	10	3

London Observations.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Temperature: Max. °F.	Temperature: Min. °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. %
	24 Hours ended 0900 G.M.T. 9th								Yesterday.		To-day.
Kew	od₀mom	omq	owbtw	*	*	21	1	–	0·0	*	*
Croydon {24 hours ended 0700}	omrro	of	obfmx	*	*	23	1	–	0·0	*	*
Greenwich (Royal Obsy.)	odm	om	mbxf	44	24	25	0·3	–	0·0	80	95
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	45	29	24	1		0·0	80	96
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*		0·0	*	*
Camden Square	r	c	*	44	27	26	1	–	*	*	75
Kensington Palace	o	o	*	45	31	23	1	–	*	85(18h)	90
Hampstead Observatory	*	*	*						0·0	*	*

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 8th

South Kensington: Max.	Time.	Min.	Time.
0·6	2100 (7th)	0·5	0700–1800 (8th)
1·0	1800 (8th)		
Kew Observatory: Max.	**Time.**	**Min.**	**Time.**
1·0	1500 (7th)	<0·3	0100 (8th)
0·7	0900 (8th)		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 8th 17 h. 0 m. to 9th 6 h. 45 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	13 45	[illegible]	[illegible]
δ Ursae Minoris	13 45	9 26	69

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 today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	–	130
18h.	C	5	–	150
01h.	C	5	5	20
07h.	C	5	7	110

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

9th & 10th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·53 7·54	11·45 11·46	3·38 3·39
Greenwich	7·55 7·56	11·52 11·53	3·50 3·50
Wick	8·52 8·53	12·4 12·5	3·14 3·14
Valencia	8·39 8·40	12·33 12·34	4·28 4·28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
ip precipitation within sight of station.
p passing showers. r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, 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 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.

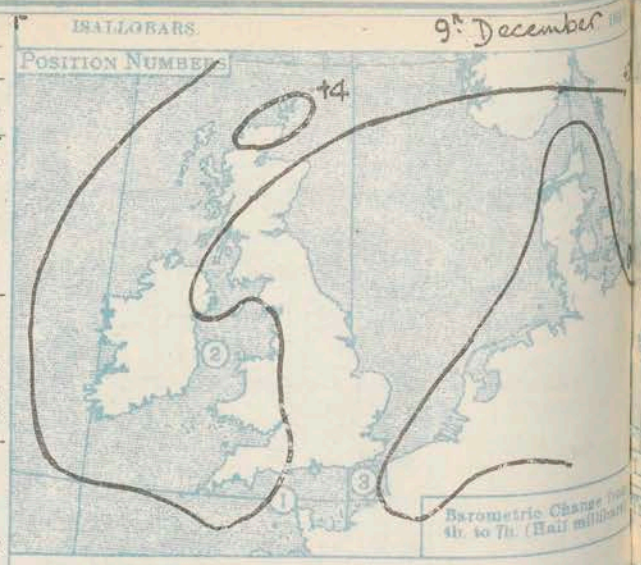
0 = no swell } Calm or slight sea.
1 = mod. swell
2 = heavy swell
3 = no swell } Moderate sea.
4 = mod. swell
5 = heavy swell
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.–13h. 8th	13h.–18h. 8th	18h. 8th to 1h. 9th	1h.–7h. 9th	TEMPERATURE. MAX. Day. 7h.–18h.	MIN. Night. 18h.–7h.	MIN. on GRASS	RAINFALL.† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	SUN. 8th Hours.
Lerwick	c	c	omr	c	40	34	•	–	1	–	<21·00	0·5
Stornoway	c	c	e	oo	49	40	•	–	0·2	–	-	3·5
Wick	b-bc	o o	c	ic bc	43	33	•	–	0·2	–	01·30	•
Castlebay	opo bc	ocdd	def d	d c	50	45	•	Trace	1	1730	-	0·9
Nairn		m	bc.c	cq	41	34	•	–	0·3	–	-	1·9
Aberdeen	obxm	b bnm	bmx.c.o	o.bc.c	38	31	24	–	-	–	-	5·0
Malin Head	LRim	lfbc	iwf	ff.ow	49	44	•	1	1	0900	<21·00	0·0
Renfrew	omm	omm	om	om	43	38	28	–	-	–	-	0·0
Edinburgh (Inchkeith)	ido	o	c	m	42	40	34	0·5	-	1630	-	0·0
Leuchars	oo	oo	oo	oo	42	39	28	–	-	–	-	0·0
Eskdalemuir	odo	oo	o.c	c.bc	41	34	33	0·4	-	<0800	-	0·0
Tynemouth	b-bcm	m	b.bcm	b.bcm	45	35	31	–	-	–	-	•
Blacksod Point ...							•					•
Donaghadee	dodc	bc	o	c	48	46	•	3	-	1530	-	•
Birr Castle ...	com	dDD			51			0·3		1630		
Holyhead	orr	ourbcbcm	bc.b.bo	c.o.o	49	43	39	2	-	–	-	0·4
Liverpool (Bidston) ...	r-d	oo	fm		46	40	38	–	-	–	-	0·0
Chester (Shotwick) ...	oprrrm	omrm	ommff	ofefe	46	39	35	2	-	<0800	-	•
Spurn Head	c	c	c	b.bc	46	36	•	1	-	–	-	3·0
Nottingham	oo	oo	bF	F	44	26	26	–	-	–	-	0·0
Cranwell	oo	c	bm.of	Fx	43	28	24	–	-	–	-	0·2
Gorleston	cqbcq	bcxx	bce bc	b.bex	45	32	24	–	-	–	-	2·9
Valencia (Cahirciveen)	odmr	oc bc	o	oo	52	36	34	3	trace	0900	-	
Roches Point							•					•
Pembroke (St. Ann's H.)	oprg	oprodd	opd	c	50	39	•	3	trace	<0800	22·00	0·0
Ross-on-Wye	idir	rrom	om	ome.de	46	34	29	2	-	<0800	-	0·0
Benson	ido	oro	o.c	cmx	43	30	24	0·3	trace		-	•
Andover	ood	rado	c.bcm	bm	46	33	26	0·5	-	<0800	-	0·0
S. Farnborough ...	ommid	orrro	om	om	43	30	26	Trace	trace	0900	-	0·0
London (Kew Obsy.) ...	odman	omg	omw.bfw	bfw.bfe	44	29	21	1	-	0900	-	0·0
Croydon	omrrr	of	abf mx	bmx.F.F	43	30	23	1	-	<0800	-	0·0
Clacton-on-Sea ...		bcm	be.bmx	bm.cx	45	30	26	–	-	–	-	3·3
Shoeburyness ...	cbcb	b	mx	c.o	46	28	21	–	-	–	-	4·1
Grain	omcb	bccb	b.bx	bbf.fx	44	24	18	–	-	–	-	2·1
Lympne	ocbcm	cbcbm	bmxf	bmf	44	29	21	Trace	Trace	<0800	-	2·9
Scilly (St. Mary's) ..	co	oido	co.	o.cp	53	48	•	2	1	1530	<21·00	0·2
Falmouth (Pendennis)	com	ocomd	bc	c.o	52	45	•	0·3	2	1100	<21·00	1·2
Plymouth (Cattewater)	odo	odd	b.bc	bc.c	52	43	34	1	-	<0800	-	0·3
Portland Bill	op	or	or	or.c	50	39	•	1	1	1100	02·30	•
Southampton (Calshot)	oDmdm	lDo	omid	fm	49	36	32	0·3	trace	1100	-	0·0
Dungeness ..	c	c	bx	bbex	45	27	•		-	1630	-	•
Jersey ..	opo	opco	or.o	o	52	44	•	2	0·2	0900	12·00	0·2



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	8th 1000	Anglia	NW	5	ob	49	51
3	9th 0300	Brighton	N	1	b-	40	44

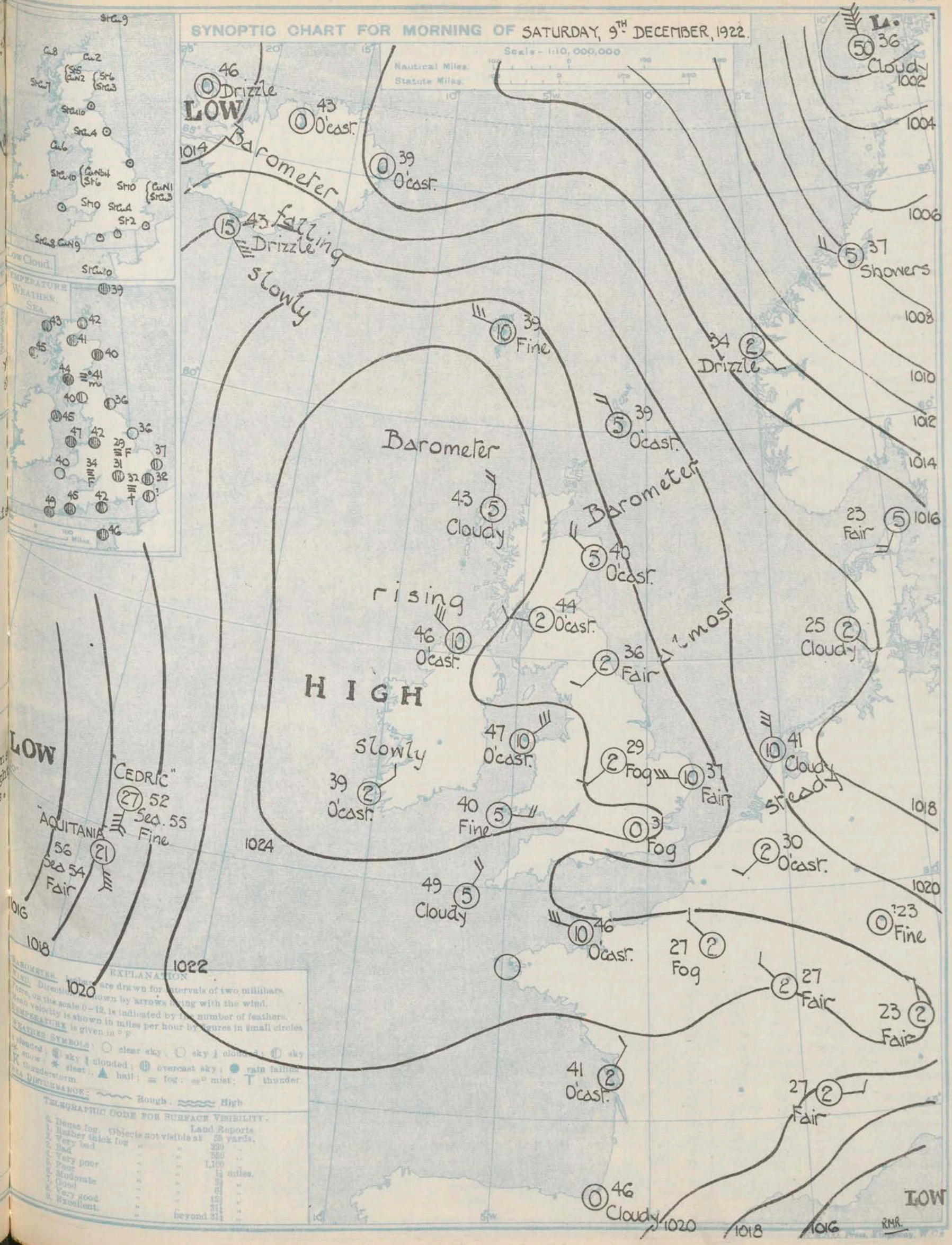
GENERAL INFERENCE.

The anticyclone has re-established itself over the British Isles and the depression far to westward of Ireland has not greatly changed its position. Quiet weather with some fog and rather low temperature is indicated for a day or two.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday, 9th December, 1922.	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	Light variable winds; mainly fair; some mist or fog; rather cold, frost at night.	Quiet conditions with frost at night and fog in places.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Light winds mainly between W and N; variable amount of cloud; some mist or fog; rather cold, frost at night.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds; mainly fair; some mist or fog; rather cold, frost at night inland.	

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

§ For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF SATURDAY, 9TH DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
46 Drizzle
43 O'cast.
39 O'cast.
1014
Barometer
43 falling
Drizzling
slowly
39 Fine
34 Drizzle
39 O'cast.
Barometer
43 Cloudy
Barometer
40 O'cast.
rising
44 O'cast.
46 O'cast.
36 Fair
almost
25 Cloudy
HIGH
47 O'cast.
29 Fog
37 Fair
41 Cloudy
slowly
39 O'cast.
40 Fine
31 Fog
steady
30 O'cast.
49 Cloudy
46 O'cast.
27 Fog
23 Fair
27 Fair
23 Fair
41 O'cast.
27 Fair
46 Cloudy
LOW
L.
50 36 Cloudy
37 Showers
23 Fair
"CEDRIC"
27 52 Sea. 55 Fine
"AQUITANIA"
21 56 Sea 54 Fair
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
RMR.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Saturday, 9th December 1922. No. 343.

Observations at 0100 G.M.T. 9th

Stations	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)	Upper Form.	Total Amt. (0-10)	Sea (0-9)
Lerwick	1017.5	+1	NNW	2	od	44	94	4	2500	Nb	4	A St	10	•
Stornoway	1023.6	+2	-	0	b	•	•	5	•	•	•	•	•	•
Wick	1020.1	-1	NW	3	od+	42	94	6	1500	St	10	-	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1023.9	+1	W	3	mo+	46	94	5	<150	St	10	-	10	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1023.0	0	WSW	3	bc-	41	92	8	*	St	1	A St	4	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1023.4	0	W	1	b	39	92	4	-	-	0	Ci Cu	2	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1023.9	+1	NE'E	3	o+	46	85	8	-	-	0	A St	10	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1022.6	0	NW'W	3	c	38	92	5	1500	St	2	A Cu	8	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1024.6	+1	NW	2	FFo	30	94	0	<150	St	10	-	10	•
Gorleston	1022.8	0	WNW	2	b-	36	85	4	-	-	0	A Cu	3	•
Valencia (Cahirciveen)	1023.9	0	SE	2	b-	50	92	4	*	St	2	-	2	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1022.9	+1	E	3	o+	45	94	6	1500	St	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	32	•	•	•	•	•	•	•	•
Croydon	1023.4	+1	-	0	b-	31	94	4	-	-	0	-	0	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1023.0	+1	N	3	b	32	92	6	-	-	0	Ci St	1	•
Scilly (St. Mary's)	1022.6	+1	NW'N	3	o	51	94	4	4000	St Cu	9	-	9	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1020.4	0	ESE	5	or,r	45	85	8	450	St	10	-	10	•
Southampton (Calshot)	1022.3	+1	NE	2	off	41	85	4	2500	St Cu	10	-	10	•
Dungeness	1022.4	+1	N	3	b	31	94	4	-	-	0	-	0	•
Jersey 7h / Guernsey 1h	1021.4	+1	ESE	3	o	45	94	6	5400	St Cu	4	A St	10	•

Observations at 0700 G.M.T. 9th

Stations	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)	Upper Form.	Total Amt. (0-10)	Sea (0-9)
Lerwick	1020.3	+3	NNW	2	o	39	85	4	5400	St Cu	9	-	9	1
Stornoway	1024.6	+2	N	2	c	43	85	4	4000	Cu	8	-	8	1
Wick	1022.2	+4	NW	3	b	42	92	8	2500	Cu	2	Ci	4	0
Castlebay	1025.0	+2	NNE	2	c/r	45	86	4	2500	St Cu	4	-	4	1
Nairn	1024.0	*	-	0	c+	41	94	8	1500	St	4	-	4	•
Aberdeen	1022.4	+1	NW	2	o	40	94	4	1500	St	9	-	9	0
Malin Head	1024.6	0	NW	3	mo-	46	94	5	5400	Nb	8	A St	10	2
Renfrew	1025.5	0	W	1	o	44	94	6	2500	St Cu	10	-	10	•
Edinburgh (Inchkeith)	1022.9	0	W	3	mmo	41	94	6	-	-	0	A St	10	2
Leuchars	1022.4	0	-	0	o	40	92	4	4000	St Cu	9	-	9	•
Eskdalemuir	1023.4	0	-	0	bc	40	92	4	2500	St Cu	4	-	4	•
Tynemouth	1022.4	0	SW	1	bc	36	94	6	-	-	0	A Cu	4	1
Blacksod Point														
Donaghadee	1023.4	+1	WSW	1	o	45	92	8	2500	Cu	6	A Cu	9	0
Birr Castle		•												•
Holyhead	1024.4	+2	NE'E	3	o	44	92	8	2500	St Cu	10	-	10	1
Liverpool (Bidston)	1024.6	0	W/S	1	o	42	92	4	1500	St	10	-	10	1
Chester (Shotwick)	1024.4	+1	WNW	1	ffo	41	94	2	1500	St	10	-	10	•
Spurn Head	1023.6	+1	WNW	3	b	36	94	6	-	-	0	-	0	3
Nottingham	1023.9	•	SW	1	FFo	29	94	0	<150	St	10	-	10	•
Cranwell	1024.1	-1	W	3	FFo	28	94	1	<150	St	10	-	10	•
Gorleston	1022.6	0	W'N	3	bc+	34	85	4	4000	St Cu	4	-	4	1
Valencia (Cahirciveen)	1025.3	+2	NE	1	o	39	94	4	4000	St Cu	10	-	10	2
Roches Point														3
Pembroke (St. Ann's H.)	1024.8	+3	E	2	b	40	92	8	-	-	0	-	0	•
Ross-on-Wye	1024.3	+1	SE'S	1	Fo+	34	94	1	<150	St	10	-	10	•
Benson	1023.3	0	W	1	c	31	94	6	*	St Cu	4	A Cu	4	•
Andover	1023.9	0	-	0	b	33	94	5	2500	St Cu	1	-	1	
S. Farnborough	1023.9	+1	NW	1	mmo	32	94	4	2500	St Cu	10	-	10	•
London (Kew Obsy.)	1024.4	0	-	0	ffb	31	92	2	2000	St	2	-	2	
Croydon	1023.8	+1	SSW	1	FFb	30	94	0	-	-	0	-	0	
Clacton-on-Sea	1022.8	0	NNW	2	c	32	92	4	4200	St Cu	4	-	4	1
Shoeburyness	1023.3	0	-	0	mmo	31	85	6	2500	Cu	9	-	9	•
Grain	1023.4	0	WNW	3	ffb	29	94	2	-	-	0	-	0	0
Lympne	1022.5	0	NNW	3	b	30	94	5	-	-	0	A St	2	•
Scilly (St. Mary's)	1023.1	+1	NNE	2	c	49	92	8	4000	St Cu	8	-	8	4
Falmouth (Pendennis)	1023.4	+2	NNE	2	o+	45	94	4	4000	Cu Nb	9	-	9	0
Plymouth (Cattewater)	1023.4	+3	-	0	o	44	94	4	4000	St Cu	10	-	10	0
Portland Bill	1021.8	+3	ENE	5	c/r	42	85	6	-	-	0	A Cu	4	4
Southampton (Calshot)	1024.0	+1	NW	2	mb-	36	94	4	-	-	0	-	0	0
Dungeness	1022.4	0	N	2	bc	24	94	6	-	-	0	A Cu	5	2
Jersey 7h / Guernsey 1h	1022.4	0	WNW	3	o/r	46	85	4	2500	St Cu	10	-	10	0

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

Stations	Weather Fore-noon	Weather After-noon	Temperature Min. Night 7th-8th °F.	Temperature Max. Day 8th °F.	Rainfall† Night 17h.-9h. 7th-8th mm.	Rainfall† Day 9h.-17h. 8th mm.	Sunshine hr.	Sunshine Sunrise to Sunset 8th hr.
Banff								
Montrose	*	*	31	42	1	–		4.2
Llandudno	dd	mcmo	42	48	0.4	2		0.0
Colwyn Bay	cd	cd	46	47	2	2		0.0
Rhyl	op	po	45	47	2	1		0.0
Southport	oro	o	44	44	1	0.4		0.0
Blackpool	od	oc	43	44	0.2	1		0.0
Harrogate	bc	cbcb	33	41	–	–		0.0
Skegness	oc	cb	35	45	1	–		2.9
Aberystwyth	moo	o	47	50	1	–		0.0
Bath	do	or	45	48	1	1		0.0
Leamington Spa	oc	oc	39	42	1	0.1		0.0
Lowestoft	cocbc	cbcbc	36	44	0.3	–		3.2
Felixstowe	cz	bczbz	37	45	–	–		3.1
Southend	cbc	bc	41	45	1	–		2.0

Stations	Weather Fore-noon	Weather After-noon	Temperature Min. Night 7th-8th °F.	Temperature Max. Day 8th °F.	Rainfall† Night 17h.-9h. 7th-8th mm.	Rainfall† Day 9h.-17h. 8th mm.	Sunshine hr.	Sunshine Sunrise to Sunset 8th hr.
Paignton	bcp	cpom	46	51	trace	0.2		0.5
Ilfracombe	opc	cp	48	51	1	1		0.0
Bude	cood	r	47	54	1	1		1.7
Penzance	or	opcop	46	52	1	1		0.3
Falmouth Observatory	obcp	bcodm	46	52	0.3	1		0.7
Torquay	cpcp	gbdo	47	52	–	1		0.2
Weymouth	cpo	odo	45	50	–	1		0.0
Bournemouth	?	?	40	49	–	–		0.1
Portsmouth (S'thsea)	og	odm	37	47	–	1		0.0
Worthing	o	o	42	44	–	–		0.0
Brighton	o	o	44	45	–	–		0.0
Eastbourne	o	o	43	44	–	0.3		0.0
Hastings	o	oc	42	44	0.3	–		0.2
Folkestone	bc	bc	40	47	0.4	–		4.2
Tunbridge Wells	o	acbc	41	44	0.2	–		0.0
Ramsgate	ocbc	bcc	40	45	–	–		3.7
Margate	cbcb	bcbbc	42	44	–	–		2.7
Deal	mbc	.bc	41	46	–	–		4.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22298 Sunday, 10th December 1922.

Observations at 1300 G.M.T. 9th

Stations	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	State of ground
Lerwick	1023.7	+3	N	3	c	40	85	7	4000	StCu	4	ACu	7	*
Stornoway	1026.1	+1	N	2	o+	45	85	7	800	St	3	-	3	*
Wick	1024.7	+2	N	3	o	45	75	8	5700	StCu	10	-	10	*
Castlebay	1026.5	0	N	2	c	47	85	7	2500	StCu	7	-	7	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1024.5	+1	NW'N	3	b	44	85	7	2500	St	1	Ci	3	1
Malin Head	1025.7	0	NW	3	mo	46	97	6	5700	Nb	3	ASt	10	*
Renfrew	1025.1	+1	-	0	bc	49	85	4	2500	StCu	4	ASt	5	1
Edinburgh (Inchkeith)	1024.7	+1	W	1	fbc	46	85	3	-	St	3	CiCu	5	*
Leuchars	1024.4	+1	N	1	b	44	85	6	-	-	0	CiSt	3	5
Eskdalemuir	1024.6	+1	N	2	o	45	75	8	2500	StCu	10	-	10	0
Tynemouth	1023.4	0	NNW	2	o	45	85	6	4000	StCu	10	-	10	*
Blacksod Point														*
Donaghadee	1025.3	+1	WSW	1	od.	46	97	6	-	-	0	ASt	10	*
Birr Castle	1027.3	*	NE	1	fo-	40	97	3	<150	St	10	-	10	*
Holyhead	1025.6	0	NW	4	o/r	49	85	8	1500	StCu	10	-	10	1
Liverpool (Bidston)	1024.6	0	W	2	o	45	92	5	800	Nb	10	-	10	1
Chester (Shotwick)	1024.8	0	WNW	3	o	46	85	6	1500	St	10	-	10	1
Spurn Head	1022.1	-1	WNW	3	ffo	40	92	3	450	St	10	-	10	*
Nottingham	1023.9	*	W	1	fb-	38	97	3	-	-	0	-	0	*
Cranwell	1023.6	-1	WNW	3	c	36	92	5	5700	StCu	3	ACu	8	1
Gorleston	1022.5	0	NW	2	c+	37	85	5	4000	StCu	5	CiSt	8	*
Valencia (Cahirciveen)	1026.7	+1	NE	1	o.	48	92	8	4000	StCu	10	-	10	2
Roches Point														*
Pembroke (St. Ann's H.)	1025.9	+1	NNW	2	c+	46	85	7	2500	Cu	8	-	8	*
Ross-on-Wye	1025.1	0	-	0	o	41	92	5	4000	StCu	10	-	10	1
Benson	1025.2	-1	-	0	FFb	34	97	2	-	-	0	-	0	1
Andover	1024.7	+1	NW	1	b	40	92	5	-	-	0	-	0	0
S. Farnborough	1024.6	0	-	0	mmb	42	75	6	-	-	0	ACu	1	0
London (Kew Obsy.)	1024.1	-1	W	2	Fbc-	36	85	1	-	-	0	Ci	4	5
Croydon	1024.1	-1	W	2	bc/f	39	85	4	-	-	0	Ci	4	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1023.4	0	NNW	1	mmb	40	75	6	-	-	0	CiSt	1	1
Grain	1023.6	-1	WNW	3	b+	39	85	5	-	-	0	Ci	1	1
Lympne	1023.0	-1	N'W	4	b	39	75	6	-	-	0	ASt	1	1
Scilly (St. Mary's)	1025.0	+1	NE'E	2	b	52	75	8	4000	Cu	2	-	2	*
Falmouth (Pendennis)	1025.8	+2	NE	4	bc-	45	92	7	4000	Cu	5	-	5	*
Plymouth (Cattewater)	1025.3	+1	NE	1	b-	46	75	7	4000	StCu	2	-	2	0
Portland Bill	1023.9	+3	ENE	4	b-	44	75	6	-	-	0	-	0	*
Southampton (Calshot)	[illegible]	[illegible]	[illegible]	2	mb-	42	75	6	-	-	0	-	0	0
Dungeness	1023.1	+1	N	2	b	40	92	7	-	-	0	--	0	*
Jersey	1024.1	0	NE	3	o	47	75	7	2500	StCu	9	-	9	*

Observations at 1800 G.M.T. 9th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Height of Low Cloud Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea 0-9
Lerwick	1025.3	+3	NNW	1	b	37	85	7	5700	StCu	1	-	1	0
Stornoway	1027.8	+2	N	1	o	43	85	6	800	St	10	-	10	0
Wick	1026.7	+2	NW	2	b	37	92	8	4000	Cu	2	Ci	3	0
Castlebay	1027.8	+2	-	0	c	45	85	6	2500	St	8	-	8	0
Nairn	1027.9	*	-	0	c	41	92	7	1500	St	8	-	8	*
Aberdeen	1026.7	+2	NNW	2	b-	39	85	7	-	-	0	-	0	0
Malin Head	1027.1	+2	N	2	o/m	46	85	8	-	-	0	-	0	2
Renfrew	1027.4	+4	-	0	Fo-	40	97	2	<150	St	10	-	10	*
Edinburgh (Inchkeith)	1027.5	+4	WSW	1	ffbc	42	92	3	-	St	5	-	5	1
Leuchars	1027.2	+4	-	0	b	32	92	6	-	-	0	ASt	2	*
Eskdalemuir	1028.2	+3	-	0	bc	34	92	6	2500	StCu	6	-	6	*
Tynemouth	1025.4	+2	NNE	3	o	45	85	7	4000	StCu	10	-	10	4
Blacksod Point														
Donaghadee	1027.0	+3	-	0	o	48	85	8	4000	StCu	10	-	10	0
Birr Castle	1028.2	*	E	1	o/f	40	97	4	2500	StCu	9	-	9	*
Holyhead	1026.8	+2	NNW	3	o	48	92	8	1500	St	10	-	10	1
Liverpool (Bidston)	1026.7	+3	WNW	1	o	45	97	4	1500	St	10	-	10	2
Chester (Shotwick)	1026.0	+1	NW	2	bc-	45	94	6	4000	StCu	5	-	5	*
Spurn Head	1023.1	+1	WNW	4	o/f	42	92	5	450	St	10	-	10	4
Nottingham	1025.5	*	W	2	b+	42	92	5	-	-	0	CiSt	3	*
Cranwell	1024.9	+1	NNW	3	mmo	40	92	4	1500	St	10	-	10	*
Gorleston	1022.3	0	WNW	3	mb-	38	92	5	-	-	0	-	0	0
Valencia (Cahirciveen)	1028.4	+3	ESE	1	o	47	85	8	4000	StCu	10	-	10	1
Roches Point														
Pembroke (St. Ann's H.)	1027.0	+1	NNW	2	o	46	92	8	2500	StCu	10	-	10	3
Ross-on-Wye	1025.9	+1	SW'W	1	o+	42	92	5	2500	St	10	-	10	*
Benson	1025.5	+2	-	0	FFb	31	97	2	-	-	0	-	0	*
Andover	1025.8	+1	SW	2	mmb	32	97	6	-	-	0	-	0	*
S. Farnborough	1024.5	+1	-	0	ffo	31	97	3	450	St	10	-	10	*
London (Kew Obsy.)	1025.1	+1	NW	1	mmbc	38	85	5	5700	StCu	5	-	5	*
Croydon	1024.9	+1	W	1	fo+	37	85	3	1500	St	10	-	10	*
Clacton-on-Sea	1023.4	0	WNW	3	o+	36	92	4	7200	StCu	10	-	10	1
Shoeburyness	1023.6	0	NW	1	mmc	37	75	6	2500	St	8	-	8	*
Grain	1024.5	+1	W	3	b-	33	92	5	-	-	0	-	0	0
Lympne	1024.1	0	NNW	3	b	34	85	5	-	-	0	ASt	1	*
Scilly (St. Mary's)	1026.3	+2	E	2	b-	49	85	8	4000	Cu	2	-	2	3
Falmouth (Pendennis)	1027.4	+4	N	3	b	43	85	6	4000	Cu	2	-	2	0
Plymouth (Cattewater)	1026.9	+2	NE	1	b-	41	85	7	1500	St	1	-	1	0
Portland Bill	1025.4	+2	NNW	4	b	41	75	6	-	-	0	-	0	1
Southampton (Calshot)	1026.0	+2	NNW	3	mb+	38	92	6	-	-	0	-	0	0
Dungeness	1023.1	0	N	2	b	34	97	6	-	-	0	-	0	2
Jersey	1024.5	0	NE	2	b	43	75	7	-	-	0	ACu	3	0

London Observations

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
	24 Hours ended 0900 G.M.T. 10th								Yesterday.		To-day.
Kew } 24 hours ended 0700	ofxbfx	bcmbcm	ombpm	*	*	29	-	03	1.4	*	*
Croydon } 24 hours ended 0700	bobfbcm	bcomfw	omr&b	*	*	30	0.1	03	1.5	*	*
Greenwich (Royal Obsy.)	fx	ofmx	obmro	41	29	26	-	-	0.0	93	90
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*	43	30	25	0.4	*	0.0	90	88
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	*	*	*
Camden Square	bc	mx	*	42	28	29	-	0.9	*	*	93
Kensington Palace	bc	b	*	42	37	30	-	0.7	*	84	92
Hampstead Observatory	*	*	*						5.1	*	

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 9th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

Pole Star Record at Greenwich Obsy.

Exposure from 9th ....h......m. to 10th ....h......m.

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

Code for State of Ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	115°
18h.	C	5	-	105°
01h.	C	5	-	80
07h.	C	5	-	75

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

10th & 11th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.54 7.56	11.46 11.46	3.37 3.37
Greenwich	7.56 7.57	11.53 11.53	3.50 3.49
Wick	8.53 8.54	12.5 12.5	3.14 3.16
Valencia	8.40 8.41	12.34 12.34	4.28 4.27

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, 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 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

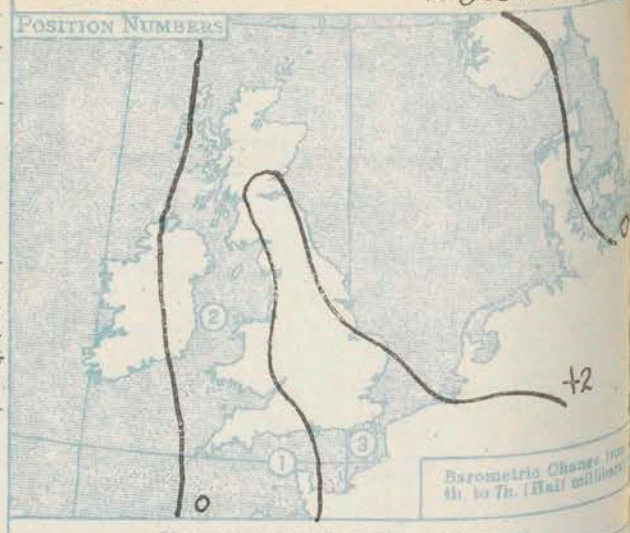
For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 9h	13h.-18h. 9h	18h. 9h to 1h 10h	1h.-7h. 10h	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 9h Hours.
Lerwick	c	bc	bc	c	41	35	•	–	–	–	–	0·1
Stornoway	c	o	c	o	45	40	•	–	–	–	–	0·0
Wick	o	bbc	o	oid.	45	36	•	–	0·2	–	1·30	•
Castlebay	coc	co					•	–		–		
Nairn	cgm	cgm	cgmo	mo	42	37	•	–	–	–	–	0.0
Aberdeen	bcc	cbc	bmcm	cmo	45	34	25	–	–	–	–	1·6
Malin Head	fowco	owmm	o	o	46	42	•	0.2	–	<0800	–	0·2
Renfrew	ocbcz	b'coF	offz		50	33	28	–	–	–	–	3·6
Edinburgh (Inchkeith)	mbc	ff	FF	FF	49	35	33	–	0·1	–	–	3·4
Leuchars	obm	bmcb	bom		46	26	13	–	–	–	–	4·4
Eskdalemuir	co	bcz	bcbx	bxom	45	24	20	–	–	–	–	1·3
Tynemouth	om	oq	m	om	46	38	35	–	–	–	–	•
Blacksod Point ...							•					•
Donaghadee	oma	id.	c	bc	48	36	•	0.3	–	<0800	–	•
Birr Castle ...	ofo	ofcoz	coz	coz	40	40	38	–	–	–	–	•
Holyhead	ooiy.	ocr.o	ooir	oo	49	41	41	Trace	Trace	11·00	<2100	0·0
Liverpool (Bidston) ...	obcom	form	bm		45	37	29	–	–	–	–	0·1
Chester (Shotwick) ...	ofmm	obcm	bcbom	bcbxf	49	27	23	–	–	–	–	•
Spurn Head	form	form	o	od	42	41	•	–	0·2	–	<21·00	0·4
Nottingham	form	form	bo	o	42	41	38	–	–	–	–	0·0
Cranwell	om	om	om	o p.o	40	39	38	–	Trace	–	6·30	1·3
Gorleston	bcpy3	omyo	cqpr	cpyq	38	37	35	1	1	<0800	<21·00	1·0
Valencia (Cahirciveen)	o	o	o	mbc	49	45	43	–	Trace	–	–	0·0
Roches Point							•					•
Pembroke (St. Ann's H.)	c	o	r-d	c	47	41	•	–	0·1	–	<21·00	2·0
Ross-on-Wye	Ffecom	omcbco	qom	ocbcmw	43	37	31	Trace	–	–	–	0.5
Benson...	bcf	f	fbcc	o	34	32	27	–	–	–	–	•
Andover	bm	bm	bm	bmbcco	41	31	25	–	–	–	–	3·2
S. Farnborough ...	ocbf	bymzof	of	ofom	43	31	28	–	Trace	–	–	4·4
London (Kew Obsy.) ...	ofxbfx	bcmbcmw	cmwcm	omcp.m	40	36	29	–	0·3	–	2400	1·4
Croydon	bobfbcm	bcomfw	omwr.	omr.r.	41	36	30	0·1	0·3	–	<21·00	1·5
Clacton-on-Sea ...	cxbcm	bcogm	ogmdc	cbc	39	36	33	–	0·5	–	22·00	4·9
Shoeburyness	cmxbcm	bmbcmc	cmpr.	bc	42	35	32	–	0·1	–	<21·00	4·2
Grain	bfxfxbfm	bmcomx	bmxofcmo	omrp	40	33	28	0·1	Trace	–	22.00	3·0
Lympne	bm	bcm	b-bc	bccop.r	40	32	28	–	0·1	–	2·30	5·8
Scilly (St. Mary's) ...	cbc	bc	bc	bc	52	42?	•	–	–	–	–	3.9
Falmouth (Pendennis)	ocbc	bcbm	oc	oc	48	41	•	–	–	–	–	4·3
Plymouth (Cattewater)	bcb	b						–		–		
Portland Bill	cb	bbc	om	om	46	36	•	–	–	–	–	•
Southampton (Calshot)	form	form	omm	o	46	37	35	–	–	–	–	5·0
Dungeness	bbc	bx	p	c	40	32	•	–	–	–	–	•
Jersey ...	obco	ob	bw	bwo	49	35	•	–	–	–	–	3·0

ISALLOBARS. 10 December,

POSITION NUMBERS



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

Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	9th 10.00	"Anglia"	WNW	4	om	47	51
1	9th 13.00	"Raindeer"	NNE	4	bc-	46	52
3	10th 03.00	"Arundel"	N	2	o	43	48

GENERAL INFERENCE.

The anticyclone is likely to continue for the next day or two. Winds will be light and indefinite and the weather mainly fair with mist or fog and slight frost at night in most inland places.

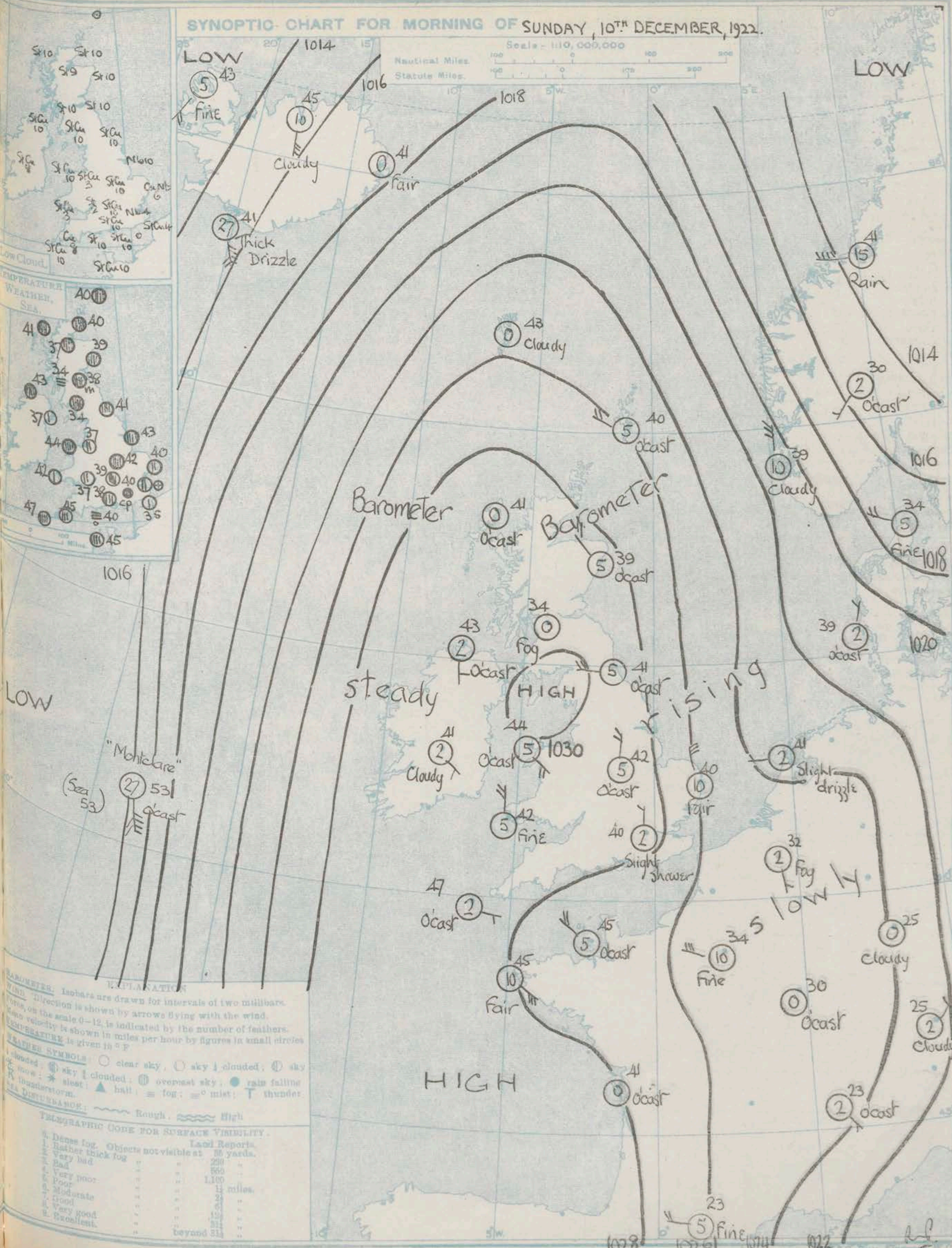
Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Sunday, 10th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind light and indefinite; fair; mist or fog inland at night; moderate temperature during the day, slight frost in places at night.	Similar conditions continuing.
5. S.W. England	Wind light and indefinite; fair; some mist inland at night; moderate temperature.	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland	Same as 1-4	
13. Isle of Man	Same as 5.	
14. N. & N.W. Scotland	Same as 1-4.	
15. Hebrides 16. Orkneys and Shetlands	Same as 5.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 1-4.	

LVN

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

† For Code see opposite page.

SYNOPTIC CHART FOR MORNING OF SUNDAY, 10TH DECEMBER, 1922.



	Land Reports.
0. Dense fog. Objects not visible at	55 yards.
1. Rather thick fog " "	220 "
2. Very bad " "	550 "
3. Bad " "	1,100 "
4. Very poor " "	1¼ miles.
5. Poor " "	2½ "
6. Moderate " "	6¼ "
7. Good " "	12½ "
8. Very good " "	31¼ "
9. Excellent. "	beyond 31¼ "

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Sunday, 10th December 1922. No. 344

Observations at 0100 G.M.T. 10th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1025·6	0	-	0	0+	40	85	7	5700	StCu	3	ASt	10	•
Stornoway	1028·8	0	-	0	bc	•	•	5	•	•	•	•	•	•
Wick	1027·2	+1	NW	2	0	41	92	8	1500	St	4	CiSt	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1028·5	0	W	1	0	45	85	8	5700	StCu	10	-	10	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1028·8	+2	WSW	1	ffo	35	97	1	-	St	10	-	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1027·2	+1	N	3	c	40	92	6	4000	StCu	8	-	8	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1027·7	+1	E	2	or.r.	44	97	8	1500	StCu	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1025·8	+1	NNW	5	0	43	85	7	2500	St	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1027·0	+2	N'W	3	0	40	92	6	2500	StCu	10	-	10	•
Gorleston	1023·5	+1	N	4	bc	42	75	7	4000	Nb	6	-	6	•
Valencia (Cahirciveen)	1028·6	0	-	0	0	46	92	7	-	St	10	-	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1028·2	0	NNE	2	0/r	46	85	8	4000	StCu	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)...	•	•	•	•	•	40	•	•	•	•	•	•	•	•
Croydon	1026·0	0	WNW	2	0/r	38	92	4	1500	St	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1025·1	0	NNW	4	bc+	37	92	6	4000	StCu	4	-	4	•
Scilly (St. Mary's) ...	1028·8	+1	ESE	1	bc	44	85	7	4000	StCu	5	-	5	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1026·9	+2	N	4	mo+	40	75	4	450	St	10	-	10	•
Southampton (Calshot)	1026·9	0	NWN	3	mmo	40	92	5	1500	StCu	10	-	10	•
Dungeness	1024·2	+2	NW	2	fc-	36	97	3	2500	St	6	-	6	•
Jersey ·7h }	1027·5	+1	NNE	1	fmb-	42	85	5	-	-	0	CiSt	2	•
Guernsey 1h }														

Observations at 0700 G.M.T. 10th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1025·8	0	WNW	2	0+	40	97	7	-	-	0	ASt	10	1
Stornoway	1028·5	0	-	0	0	41	97	6	800	St	10	-	10	0
Wick	1027·5	+1	WNW	2	o/r	40	92	8	1500	St	10	-	10	0
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	1028·7	•	-	0	0	37	85	7	1500	St	9	-	9	•
Aberdeen	1028·6	+1	NW	2	0	39	85	7	4000	St	10	-	10	0
Malin Head	1028·5	0	S	1	0	43	92	8	5700	StCu	10	-	10	2
Renfrew	1029·2	+2	-	0	ffo	34	97	3	1500	St	10	-	10	•
Edinburgh (Inchkeith)	1028·9	+1	S	1	mo-	38	97	6	-	St	10	-	10	1
Leuchars	1029·2	+2	-	0	0	32	92	5	5700	StCu	10	-	10	•
Eskdalemuir	1030·2	+2	-	0	0	34	97	6	1500	StCu	10	-	10	•
Tynemouth	1028·4	+2	W	2	0	41	85	7	4000	StCu	10	-	10	2
Blacksod Point ...	1029·4	+1	W	1	b	37	92	8	-	-	0	CiCu	2	0
Donaghadee	1029·7	•	SE	1	c	41	92	6	2500	StCu	8	-	8	•
Birr Castle	1029·2	+1	SE'E	2	0	44	92	8	2500	StCu	10	-	10	0
Holyhead	1029·6	+1	NE'E	1	bc+	37	92	4	2500	St	2	ASt	4	1
Liverpool (Bidston) ...	1029·6	+2	-	0	fc+	30	97	3	4000	StCu	3	ACu	7	•
Chester (Shotwick) ...														
Spurn Head	1026·7	+1	NNE	3	0	43	85	7	4000	Nb	10	-	10	4
Nottingham	1028·8	•	N	2	0	43	85	7	2500	StCu	10	-	10	•
Cranwell	1029·4	+3	N'W	3	0	39	92	7	2500	StCu	10	-	10	•
Gorleston	1025·3	+2	N'W	3	bc/r	40	85	7	4000	CuNb	9	-	9	1
Valencia (Cahirciveen)	1028·7	0	SE	3	0	47	75	6	4000	StCu	10	-	10	1
Roches Point														3
Pembroke (St. Ann's H.)	1029·1	+1	N	2	b	42	92	8	4000	StCu	3	-	3	•
Ross-on-Wye	1029·3	+2	NNE	1	bc-	37	97	4	800	St	2	ACu	5	•
Benson...	1028·5	+2	NW	1	0	39	92	6	2500	StCu	10	-	10	•
Andover	1028·4	+2	NNW	2	0	39	92	6	1500	St	10	-	10	•
S. Farnborough ...	1028·5	+2	W	3	0	38	92	6	2500	StCu	10	-	10	•
London (Kew Obsy.)...	1028·2	+2	N	1	cp.	40	85	6	2500	StCu	5	ASt	7	•
Croydon	1027·7	+2	N	1	o/r	39	92	5	1500	Nb	4	CiSt	10	
Clacton-on-Sea ...	1026·2	+3	WNW	3	bc⊕	37	92	7	7200	StCu	3	CiSt	5	1
Shoeburyness	1027·0	0	NW	1	bc	36	85	7	5700	StCu	1	ACu	4	•
Grain	1027·3	+3	WNW	4	0	37	97	7	4000	StCu	8	Ci	9	0
Lympne	1026·7	+2	N	3	bc-	36	92	6	4000	StCu	4	ASt	5	•
Scilly (St. Mary's) ...	1028·6	0	E	1	0	47	75	7	4000	StCu	10	-	10	3
Falmouth (Pendennis)	1029·4	+2	-	0	c	45	85	8	4000	Cu	8	-	8	0
Plymouth (Cattewater)														1
Portland Bill	1027·4	+1	N	4	mo+	40	75	4	450	St	10	-	10	0
Southampton (Calshot)	1028·3	+1	N	3	0	42	85	6	2500	StCu	10	-	10	3
Dungeness	1026·1	+1	N	2	b	36	97	7	-	-	0	ACu	2	0
Jersey ·7h }	1027·6	0	NW	2	0	45	75	6	2500	StCu	10	-	10	
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 8h.-9h. °F.	Temperature. Max. Day. 9h. °F.	Rainfall.† Night 17h.-9h. 8h.-9h. mm.	Rainfall.† Day 9h.-17h. 9h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 9h. hr.
Banff								
Montrose	-	-	32	44	-	-		3.8
Llandudno	0	odo	36	48	0.1	1		0.0
Colwyn Bay ...	cd	dc	39	47	-	0.5		0.0
Rhyl...	o	oß	39	48	-	0.3		0.0
Southport	oro	oco	40	46	-	0.2		0.0
Blackpool	o	om	41	47	-	-		0.0
Harrogate	bbc	bcco	31	43	-	-		0.5
Skegness	wxbc	cbbc	27	42	1	-		0.7
Aberystwyth ...	moc	o	35	46	1	-		0.5
Bath	moc	bcbm	33	42	-	-		0.2
Leamington Spa ...	fc	fc	31	37	-	-		0.0
Lowestoft	bcbcc	com	32	38	0.4	-		2.0
Felixstowe	bcg	om	29	39	-	-		4.3
Southend	xfcbc	bcm	30	43	-	-		4.7
Paignton	ogbcb	bm	39	46	-	-		3.0
Ilfracombe								2.4
Bude	mb	co	36	46	1	1		5.6
Penzance	bc	bb	45	49	2	-		4.7
Falmouth Observatory	cbcb	bm	43	48	3	-		3.5
Torquay	cmbc	b	43	46	1	-		4.3
Weymouth	bcb	bm	37	46	0.5	-		4.8
Bournemouth ...	b	b	34	43	1	-		4.4
Portsmouth (S'thsea)	ob	b	35	43	-	-		5.7
Worthing	bc	bb	33	42	-	-		4.9
Brighton	obb	cbb	32	42	-	-		6.0
Eastbourne	bb	bc	29	43	-	-		6.2
Hastings	xb	bbcof	34	41	0.2	-		5.6
Folkestone	xbb	bcm	30	45	-	-		4.7
Tunbridge Wells ...	mbcb	bbc	23	38	-	-		4.2
Ramsgate	cbcbb	bcco	33	40	-	-		1.7
Margate	cbcb	bcc	39	42	-	-		5.0
Deal	mbcb	bbm	31	39	-	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22299 Monday 11th December 1922.

Observations at 1300 G.M.T. 10th

Stations.	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	State of ground.
Lerwick	1026·0	0	WNW	2	cd_0	42	85	7	4000	Nb	7	-	7	*
Stornoway	1028·8	0	S	1	0	43	85	5	800	St	10	-	10	*
Wick	1028·2	0	W	1	0	41	92	8	4000	StCu	10	-	10	*
Castlebay	*													*
Nairn														*
Aberdeen	1029·6	0	WNW	2	o+	41	85	7	2500	StCu	9	-	9	1
Malin Head	1029·7	+1	S	2	0	42	85	8	5750	StCu	10	-	10	*
Renfrew	1030·6	0	-	0	0	39	92	5	2500	St	10	-	10	1
Edinburgh (Inchkeith)	1030·0	+2	WNW	1	mo-	39	92	6	-	StCu	10	-	10	*
Leuchars	1030·0	0	W	1	bc-	33	97	6	4000	StCu	4	-	4	6
Eskdalemuir	1030·2	0	W	2	0	40	85	8	2500	StCu	10	-	10	1
Tynemouth	1029·9	+1	WNW	1	0	42	85	5	4000	StCu	10	-	10	*
Blacksod Point														*
Donaghadee	1030·9	+1	SW'W	2	c	41	85	8	-	-	0	aSt	8	*
Birr Castle		*												*
Holyhead	1030·8	0	SE'S	1	0	46	85	8	2500	StCu	10	-	10	0
Liverpool (Bidston)	1030·6	0	ESE	1	0	43	85	4	1500	StCu	10	-	10	*
Chester (Shotwick)	1020·7	0	SSW	2	ffo	41	92	3	4000	StCu	10	-	10	5
Spurn Head	1028·6	+2	NW	3	0	44	85	6	4000	StCu	10	-	10	*
Nottingham	1030·7	*	N	2	0	43	75	5	2500	StCu	10	-	10	*
Cranwell	1030·1	+2	NNW	3	0	41	85	7	2500	StCu	10	-	10	0
Gorleston	1027·8	+2	N	3	c+	43	85	7	4000	CuNb	8	-	8	*
Valencia (Cahirciveen)	1029·0	0	SE	3	0	48	75	7	4000	StCu	10	-	10	1
Roches Point														*
Pembroke (St. Ann's H.)	1030·9	+1	-	0	c	47	85	7	4000	StCu	8	-	8	*
Ross-on-Wye	1030·8	+1	NNW	2	0	42	85	5	4000	StCu	10	-	10	5
Benson	1030·4	+1	NW	1	0	42	85	6	2500	St	10	-	10	1
Andover	1030·0	+1	N	2	0	42	85	7	2500	StCu	10	-	10	0
S. Farnborough	1030·0	+2	W	1	0	43	85	6	2500	StCu	10	-	10	0
London (Kew Obsy.)	1030·0	+2	N	1	od_0	43	85	6	1500	StCu	10	-	10	1
Croydon	1029·8	+2	NNW	1	odd	41	92	3	1500	St	10	-	10	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1029·1	+2	NW	3	0	43	75	6	4000	StCu	8	aCu	9	*
Grain	1029·4	+2	NW	4	0	43	85	6	2500	StCu	10	-	10	1
Lympne	1028·8	+1	N	3	0	42	85	6	1500	StCu	9	aSt	10	1
Scilly (St. Mary's)	1030·1	+1	-	0	0	50	75	7	4000	StCu	10	-	10	*
Falmouth (Pendennis)	1030·9	+2	-	0	b-	47	85	6	4000	Cu	3	-	3	*
Plymouth (Cattewater)	1030·0	+1	-	0	o-	47	75	7	1500	StCu	10	-	10	0
Portland Bill	1030·1	+5	N	3	o/f	45	75	6	2500	St	10	-	10	*
Southampton (Calshot)	1030·6	+1	N'E	2	mmo	44	75	6	4000	StCu	10	-	10	0
Dungeness	1028·4	+2	NNE	3	bc+	45	75	8	2500	Cu	5	-	5	*
Jersey 7h / Guernsey 1h	1029·2	+1	NNE	3	mmo	45	85	6	7250	-	-	aSt	10	*

Observations at 1800 G.M.T. 10th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	1026·1	-1	WNW	1	od_0	41	97	6	-	-	0	aSt	10	0
Stornoway	1027·3	0	-	0	o-	43	85	6	800	St	10	-	10	0
Wick	1028·3	0	SW	1	0	39	97	8	2500	Nb	10	-	10	0
Castlebay														
Nairn		*												*
Aberdeen	1029·8	0	W	1	0	39	85	6	2500	StCu	10	-	10	0
Malin Head	1029·0	-1	S	2	0	41	85	8	5750	StCu	10	-	10	2
Renfrew	1030·0	-1	-	0	mo	39	92	5	2500	StCu	10	-	10	*
Edinburgh (Inchkeith)	1030·0	+1	WNW	2	o/f	36	85	8	-	St	10	-	10	1
Leuchars	1029·8	0	-	0	b	29	97	6	5750	StCu	2	-	2	*
Eskdalemuir	1030·1	0	W	2	0	38	85	7	2500	StCu	10	-	10	*
Tynemouth	1030·7	+1	WNW	1	0	41	85	6	4000	StCu	10	-	10	1
Blacksod Point														
Donaghadee	1030·4	0	-	0	o+	39	97	7	4000	St	10	-	10	0
Birr Castle		*												*
Holyhead	1030·5	0	N'W	3	0	46	85	7	2500	StCu	10	-	10	1
Liverpool (Bidston)	1030·8	0	SE	2	0	41	85	5	2500	St	10	-	10	2
Chester (Shotwick)	1030·7	0	SSE	1	mmo	39	92	5	4000	StCu	10	-	10	*
Spurn Head	1029·6	+1	NW	3	0	42	92	6	450	St	10	-	10	
Nottingham	1031·3	*	NNW	2	0	42	75	6	-	-	0	aSt	10	*
Cranwell	1030·4	0	NW	3	0	39	85	7	4000	St	10	-	10	*
Gorleston	1029·1	+1	NW'N	3	0	43	75	7	4000	St	10	-	10	1
Valencia (Cahirciveen)	1025·7	0	SE'S	2	0	49	75	7	2500	St	10	-	10	1
Roches Point														
Pembroke (St. Ann's H.)	1031·1	0	E	1	b-	44	85	7	-	-	0	aSt	2	3
Ross-on-Wye	1031·3	+1	N	1	0	39	85	6	2500	St	10	-	10	*
Benson	1031·0	+1	NW	1	0	40	85	6	-	St	10	-	10	*
Andover	1031·3	+1	NNW	1	0	40	92	7	2500	StCu	10	-	10	*
S. Farnborough	1030·9	+1	-	0	0	40	85	6	2500	StCu	10	-	10	*
London (Kew Obsy.)	1031·0	+2	N	1	o/r	42	75	6	2500	St	10	-	10	*
Croydon	1030·5	+1	NW	2	o/d	41	85	3	1500	St	10	-	10	*
Clacton-on-Sea	1029·6	+2	NW	3	mmo	41	92	5	4000	Cu	10	-	10	1
Shoeburyness	1030·3	+1	NW	3	0	41	85	6	4000	StCu	10	-	10	*
Grain	1030·6	+1	NW	3	0	41	92	6	2500	StCu	10	-	10	0
Lympne	1029·8	+1	NNW	2	0	39	92	7	800	St	10	-	10	*
Scilly (St. Mary's)	1029·8	0	S'E	1	c-	48	65	8	4000	StCu	8	-	8	1
Falmouth (Pendennis)	1031·4	+2	E	2	b	45	75	7	4000	St	2	-	2	0
Plymouth (Cattewater)	1031·5	+1	-	0	b+	40	85	8	4000	StCu	3	-	3	0
Portland Bill	1031·2	+3	NNE	4	0	44	75	7	2500	St	10	-	10	0
Southampton (Calshot)	1031·6	+2	N	2	o/F	43	75	7	2500	StCu	10	-	10	0
Dungeness	1029·7	+2	N	2	0	39	97	8	-	StCu	10	-	10	3
Jersey 7h / Guernsey 1h														

London Observations.	Weather Morning.	Weather Afternoon.	Weather Night.	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass. °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
	24 Hours ended 0900 G.M.T. 11th								Yesterday.		To-day.
Kew	om.odm	omip	om	*	*	36	tr	·	0·1	*	*
Croydon (24 hours ended 0700)	cfdd	ofmdd	fom o2	*	*	35	0·1	·	0·0	*	*
Greenwich (Royal Obsy.)	od	od	od.o	43	39	36	-	-	0·0	84	70
City (Bunhill Row)	*	*	*	*	-	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	44	39	36	0·5		0·0	94	72
Regent's Pk. (Botanic Gdns.)	*	*	*	*		*	*	*	0·0	*	*
Camden Square	CW	0	*	43	39	34	tr	-	*	*	74
Kensington Palace	odr	om	*	43	39	36	-	-	*	80(18h)	72
Hampstead Observatory	*	*	*	41	36	30	-	-	0·2	*	78

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1600 G.M.T.

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

Pole Star Record at Greenwich Obsy.

Exposure from 10th 16 h 45 m. to 11th 7 h 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14 15	nil	0
δ Ursae Minoris	14 15	nil	0

Code for state of ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.‡

Time.	Type.	No. per 4 sec.	Stren.	Direc.
12h.	C_1C_2	4	-	-
18h.	C_1C_1	5	-	140
0h.	C	5	-	50°
07h.	C_1C_2	5	-	140

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

11th & 12th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·56 7·57	11·46 11·47	3·37 3·36
Greenwich	7·57 7·58	11·53 11·54	3·49 3·49
Wick	8·54 8·55	12·5 12·6	3·16 3·16
Valencia	8·41 8·42	12·34 12·35	4·27 4·27

Beaufort Notation of Weather.

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

With present weather is combined, wherever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain; i = intermittent; − = "decreasing"; + = "increasing"; h(r) = "hail" or "rain and hail";

Capital letters indicate intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r_or_o = continuous light rain.

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.

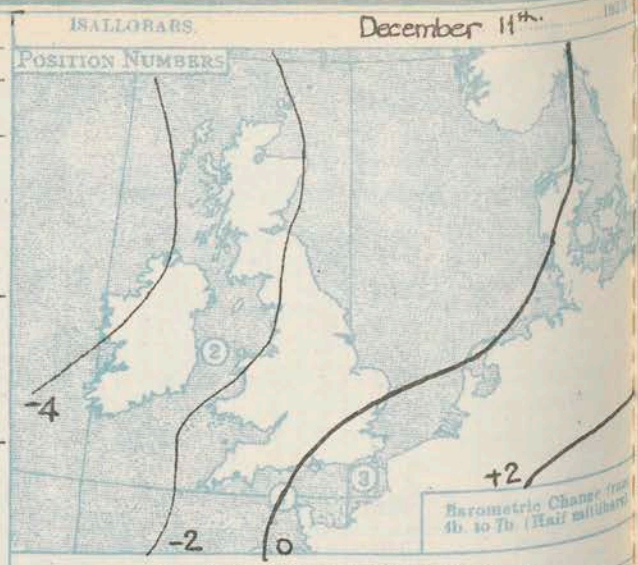
Sea Disturbance.
0 = no swell
1 = mod. swell } Calm or slight sea.
2 = heavy swell
3 = no swell
4 = mod. swell } Moderate sea.
5 = heavy swell
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 10th	13h.-18h. 10th	18h. 10th to 1h. 11th	1h.-7h. 11th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 10th Hours.
Lerwick	cd	0mb	0	0	42	41	•	0·4	trace	L0800	L21·00	0·5
Stornoway	00	00	00	00	43	42	•	–	–	–	–	0·0
Wick	00	00	00	00	52	36	•	–	–	–	–	•
Castlebay			0	0	46	44	•		–		–	0·0
Nairn	0.cm	cm		cm	36	33	•	–	–	–	–	0·0
Aberdeen	0c0	00	00	00	41	33	32	–	–	–	–	0·0
Malin Head	00	00	0.bc	c0	43	35	•	–	–	–	–	0·0
Renfrew	0fem	0m	0m	0m	39	34	34	–	–	–	–	0·0
Edinburgh (Inchkeith)	m	m0	00	00	39	36	35	trace	–	–	–	0·0
Leuchars	0mbck	bcbmx	b	bc	34	28	18	–	–	–	–	0·0
Eskdalemuir	00	00	0	c	40	34	29	–	–	–	–	0·0
Tynemouth	0m	00m	0m	0m	42	39	34	–	–	–	–	•
Blacksod Point ...							•					•
Donaghadee	c	bc	0	0	44	34	•	–	–	–	–	•
Birr Castle ...												
Holyhead	00	00	00	00	44	43	42	–	–	–	–	0·0
Liverpool (Bidston) ...	00	00	fm		42	34	30	–	–	–	–	0·0
Chester (Shotwick) ...	00ff	00mm	0mofe	0fe.0m	41	38	35	–	trace	–	24·00	•
Spurn Head	00	00	00	00	44	39	•	–	•	–	–	0·0
Nottingham	00	00	0.c	00	43	34	36	–	–	–	–	0·0
Cranwell	00	00	0m	0m	41	35	32	–	–	–	–	0·0
Gorleston	cpf	0m	00	00	44	38	34	0·4	–	L0800	–	0·0
Valencia (Cahirciveen)	c	00	0g					–		–		
Roches Point							•					•
Pembroke (St. Ann's H.)	bcc	c	c	c	48	42	•	–	–	–	–	0·4
Ross-on-Wye	m0c0	0m0	0.c.bw	bmw.c0	43	31	23	–	–	–	–	0·0
Benson...	0	0	0	0	40	35		–	–	–	–	•
Andover	00	00	00	00	43	35	31	–	–	–	–	0·0
S. Farnborough ...	0m0m	0m	0m	0m	43	36	34	–	–	–	–	0·0
London (Kew Obsy.) ...	cmodm	0mp.0m	0m.0m	0m.0m	43	40	36	trace	–	1100	–	0·1
Croydon	comfdd 00	0fmdd 00	f.0m	0mx	41	38	35	0·1	–	0900	–	0·0
Clacton-on-Sea ...	cbcc	cog.m	0g.m	0g.m	43	39	34	–	–	–	–	1·3
Shoeburyness	c	00	0	0	43	38	34	–	–	–	–	0·0
Grain	00	00	0mm	0mm	43	38	32	–	–	–	–	0·0
Lympne	cocbom	0m.0	00	0m	44	34	36	0·2	–	1430	–	2·4
Scilly (St. Mary's) ...	00	0c	00	00	50	48	•	–	–	–	–	0·0
Falmouth (Pendennis)	cbcbm	bm		b	48	41	•	–	–	–	–	3·3
Plymouth (Cattewater)	0m	cbcb	b.bc	b	49	31	24	–	–	–	–	2·3
Portland Bill	0m0	00	00	00	46	36		–	–	–	–	•
Southampton (Calshot)	form	0mp.0m0	00	00	44	40	39	trace	–	1330	–	0·0
Dungeness .	b-bc	c	00	00	45	38	•	–	–	–	–	•
Jersey 7h } .. Guernsey 1h }	form		00	0	44	40			–		–	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	10th 1000	Anglia	WNW	3	c	46	51
3	11th 0300	Arundel	N'W	1	0	42	44

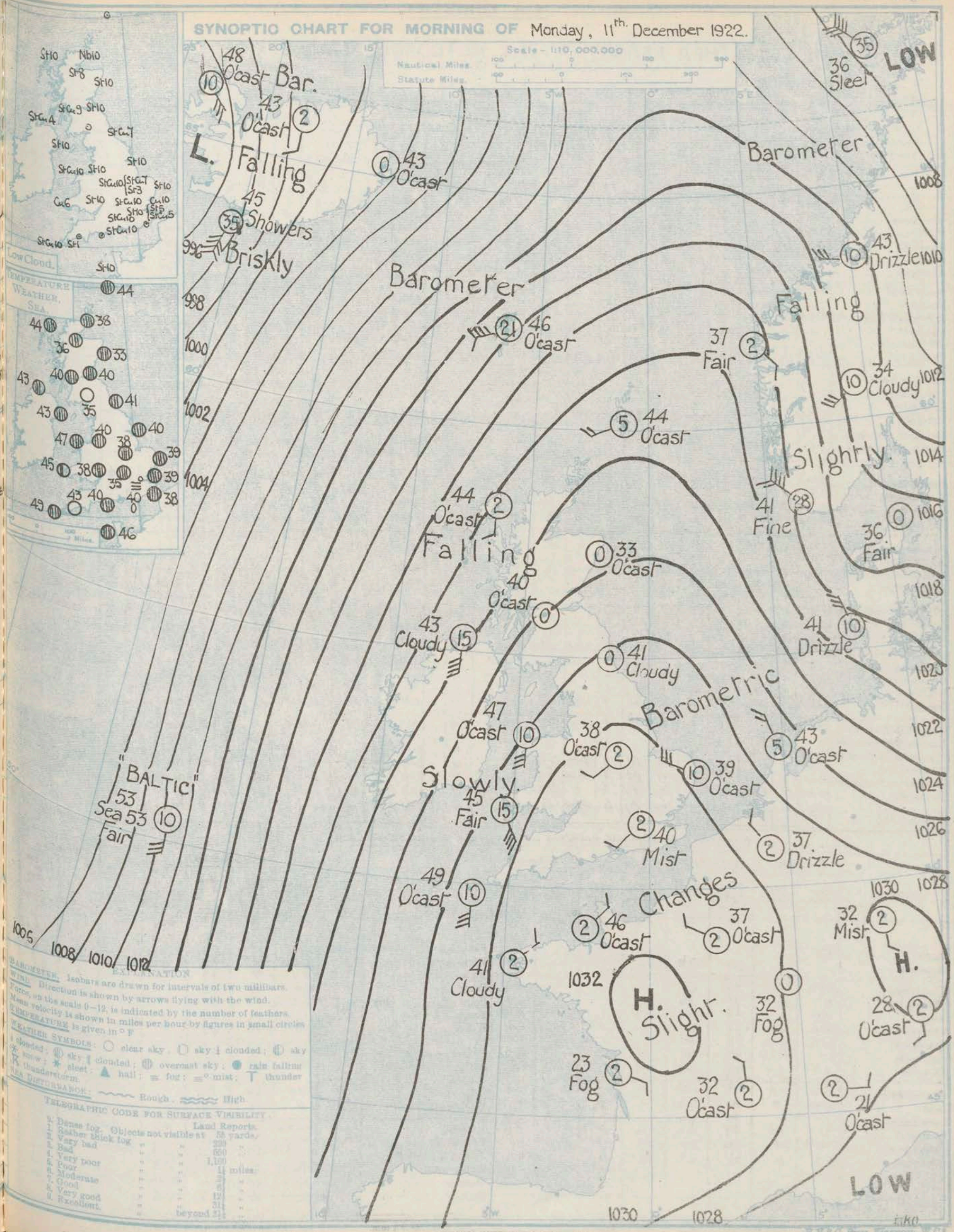
GENERAL INFERENCE.

The anticyclone is moving slowly to the Continent and winds will be light or moderate from S. or SW. in most districts, with fair weather.

In the extreme Northwest, however, winds will be stronger at times and some showers are probable.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 11th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S. to SW., light or moderate; fair; visibility moderate or good; moderate temperature.	Little or no precipitation for a day or two in the South and Southeast of England: Uncertain in other districts.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind S. to SW., moderate; variable cloud; visibility moderate or good; milder.	
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind S. to SW., fresh or strong at times; cloudy, some showers; visibility moderate or good; milder.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 to 13.	MHS.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Monday, 11th December 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
Barometer
Falling
Slightly.
Baromerric
Changes
Slowly.
Falling
L.
Bar.
Briskly
Showers
"BALTIC"
H.
Slight.
LOW
Low Cloud.
TEMPERATURE
WEATHER.
SEA
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers.
Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in ° F.
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: Rough. High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog " " 220 "
2. Very bad " " 550 "
3. Bad " " 1,100 "
4. Very poor " " 1¼ miles.
5. Poor " " 2 "
6. Moderate " " 3 "
7. Good " " 6 "
8. Very good " " 12 "
9. Excellent. " " 31 "
" beyond 31 "

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Monday, 11th December 1922. No. 345.

Observations at 0100 G.M.T. 11th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1024·0	-3	W	2	0	44	85	4	-	-	0	A St	10	•
Stornoway	1026·4	-3	-	0	co	•	•	4	•	•	•	•	•	•
Wick	1026·8	-1	W	1	0	34	94	8	-	-	0	A St	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1024·1	-2	SSE	3	bc+	38	94	8	-	-	0	A Cu	4	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1029·0	-2	-	0	0	34	92	4	*	St	10	-	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1029·3	-1	-	0	0	40	85	6	-	-	0	A St	10	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1029·4	0	E	1	0	45	92	8	2500	St Cu	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1030·2	+1	WNW	3	0	41	85	4	2500	St	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1030·8	+1	W	2	0	35	92	6	4000	St	10	-	10	•
Gorleston	1029·8	0	NNW	3	0	41	92	6	1500	St	10	-	10	•
Valencia (Cahirciveen)	1025·4	-3	SW	5	0+	40	85	4	*	St	9	-	9	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1030·4	-1	SSE	4	c+	46	85	8	4000	Cu	4	-	4	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)...	•	•	•	•	•	42	•	•	•	•	•	•	•	•
Croydon	1031·2	0	WNW	1	0	39	85	4	1500	St	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness... ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1030·4	0	NNW	2	0	38	92	4	800	St	10	-	10	•
Scilly (St. Mary's) ...	1030·2	0	S	2	0	49	65	8	4000	St Cu	10	-	10	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1031·4	0	NE	4	0	40	85	4	1500	St Cu	10	-	10	•
Southampton (Calshot)	1031·4	0	NW	2	0	41	85	8	4000	St Cu	10	-	10	•
Dungeness	1030·6	+1	NNE	2	0-	39	94	6	*	St Cu	9	-	9	•
Jersey 7h }	1031·2	+1	SSW	1	0	44	85	6	5000	St	10	-	10	•
Guernsey 1h }														

Observations at 0700 G.M.T. 11th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1022·8	-1	WSW	2	0	44	85	4	-	-	0	A St	10	2
Stornoway	1022·2	-3	S	1	0	44	85	6	800	St	10	-	10	0
Wick	1024·1	-4	SSE	3	0	38	94	8	2500	Nb	10	-	10	0
Castlebay	1022·8	-3	SW	4	0	48	85	6	1500	St	10	-	10	4
Nairn	1024·5	•	-	0	c	36	85	5	1500	St	8	-	8	•
Aberdeen	1025·8	-2	-	0	0	33	85	6	1500	St	10	-	10	0
Malin Head	1023·1	-4	S	4	C+	43	92	8	5400	St Cu	4	A Cu	8	2
Renfrew	1026·4	-3	-	0	0-	40	85	5	2500	St Cu	9	-	9	•
Edinburgh (Inchkeith)	1025·4	-2	WSW	2	0	40	85	4	*	St	10	-	10	2
Leuchars	1025·4	-2	-	0	0	32	92	4	4000	St Cu	10	-	10	•
Eskdalemuir	1024·4	-2	SW	1	b-	35	85	6	-	-	0	A Cu	1	•
Tynemouth	1028·0	-1	-	0	c-	41	85	6	4000	St Cu	4	-	4	0
Blacksod Point ...	1026·5	-3	SW	1	0-	43	92	8	1500	St	10	-	10	0
Donaghadee														•
Birr Castle	•													1
Holyhead	1024·9	-2	S	3	0	44	85	8	2500	St Cu	10	-	10	2
Liverpool (Bidston) ...	1028·6	-1	SSE	1	0	40	92	4	1500	St	10	-	10	•
Chester (Shotwick) ...	1029·2	-2	SE	1	mo-	39	92	4	4000	St Cu	10	-	10	•
Spurn Head	1029·6	-1	-	0	0	40	92	4	2500	St	10	-	10	3
Nottingham	1030·2	•	SW	1	•	38	85	5	2500	St Cu	10	-	10	•
Cranwell	1029·8	-1	SW	1	0	34	85	6	1500	St Cu	10	-	10	•
Gorleston	1029·6	0	WNW	3	0	39	85	6	4000	St	10	-	10	0
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	1029·8	-1	SSE	4	bc	45	95	8	2500	Cu	6	-	6	3
Ross-on-Wye	1030·5	-1	SW	1	0+	38	85	6	2500	St	10	-	10	•
Benson...	1030·2	-1	-	0	0	35	85	6	2500	St Cu	10	-	10	•
Andover	1031·4	0	W	1	0	36	92	6	2500	St Cu	10	-	10	•
S. Farnborough ...	1031·2	0	W	1	0	34	95	6	1500	St	10	-	10	•
London (Kew Obsy.)...	1031·3	0	SW	1	mno	40	95	5	2500	St	10	-	10	•
Croydon	1031·2	0	WSW	2	0	38	95	5	1500	St	10	-	10	1
Clacton-on-Sea ...	1030·5	0	NW	2	0	39	65	6	4000	Cu	10	-	10	•
Shoeburyness... ...		0	NW	1	0	39	95	4	1500	St	10	-	10	0
Grain	1031·2	0	WNW	3	0	39	85	6	2500	St Cu	10	-	10	•
Lympne	1030·5	0	NNW	1	0	38	85	6	1500	St	10	-		3
Scilly (St. Mary's) ...	1028·3	-2	S	3	0	49	94	8	4000	St Cu	10	-	10	0
Falmouth (Pendennis)	1030·4	0	SE	2	b	43	95	4	4000	St	1	-	7	0
Plymouth (Cattewater)	1030·6	-3	-	0	b	33	94	4	-	-	0	-	0	3
Portland Bill	1031·4	0	NE	4	0	40	85	4	1500	St	10	-	10	0
Southampton (Calshot)	1031·8	0	N	2	0	41	95	8	4000	St Cu	10	-	10	3
Dungeness	1030·8	+1	NNE	2	0	38	94	4	-	-	0	A St	9	0
Jersey 7h }	1030·9	0	NE	1	0	46	94	6	1500	St	10	-	10	0
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 9th-10th	Temperature. Max. Day. 10th	Rainfall.† Night 17h.-9h. 9th-10th	Rainfall.† Day 9h.-17h. 10th	Sunshine.	Sunshine. Sunrise to Sunset. 10th
			°F.	°F.	mm.	mm.	hr.	hr.
Banff								
Montrose			30	36	-	-		0·0
Llandudno	bc	co	34	47	-	-		0·7
Colwyn Bay ...	c	c	35	46	-	-		0·8
Rhyl...	oc	c	39	43	0·3	-		0·2
Southport	bc	oo	32	40	-	-		0·0
Blackpool	mc	om	29	41	-	-		0·3
Harrogate	oc	occo	36	41	-	-		0·0
Skegness	oo	oo	39	43	0·8	-		0·0
Aberystwyth ...	mo	oo	36	46	-	-		0·0
Bath	cmo	o	36	43	-	-		0·0
Leamington Spa ...			32	42	-	-		0·0
Lowestoft	oco	oo	37	44	1·4	-		0·6
Felixstowe	cmom	oo	34	43	0·8	-		1·5
Southend	fo	o	36	43	0·1	-		0·0

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 9th-10th	Temperature. Max. Day. 10th	Rainfall.† Night 17h.-9h. 9th-10th	Rainfall.† Day 9h.-17h. 10th	Sunshine.	Sunshine. Sunrise to Sunset. 10th
			°F.	°F.	mm.	mm.	hr.	hr.
Paignton	bcm	cbcc	35	48	-	-		1·6
Ilfracombe	bbc	bcbz	40	49	-	-		4·7
Bude	cbcb	bb	36	49	-	-		3·4
Penzance	oc	cbc	39	52	-	-		2·2
Falmouth Observatory	bbc	bmbom	38	50	-	-		4·5
Torquay	b	bcco	37	47	-	-		2·0
Weymouth	co	o	36	43	-	-		0·0
Bournemouth ...	oo	oo	35	43	-	-		0·0
Portsmouth (S'thsea)	om	om	38	44	-	-		0·0
Worthing	co	o	35	43	-	-		0·3
Brighton	co	oo	36	43	-	-		0·5
Eastbourne	obc	o	37	44	-	-		4·2
Hastings	fcc+	bcbco	35	45	0·2	-		4·3
Folkestone	d+	bco	31	45	-	-		0·1
Tunbridge Wells ...	co	oco	33	42	trace	trace		2·6
Ramsgate	bbc	bbco	36	43	0·3	-		2·6
Margate	b	oo	40	44	trace	-		3·0
Deal	fomcbc	bbc	36	43	0·8	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 22,300 TUESDAY, 12th DECEMBER 1922.

Observations at 1300 G.M.T. 11th

STATIONS.	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	State of ground.
Lerwick	1019.6	-5	WSW	3	or₀	43	85	7	2500	St.Cu	10	-	10	*
Stornoway	1018.3	-4	SSW	3	0m	47	85	6	800	St.	10	-	10	*
Wick	1020.7	-4	SW	2	0	38	92	8	5700	St.Cu	9	Ci.	10	*
Castlebay	*													
Nairn	1018.3	-3	SSE	5	0	48	75	7	1500	St.	10	-	10	*
Aberdeen	1023.4	-3	WSW	1	b	34	85	6	-	-	0	-	0	1
Malin Head	1019.2	-6	S	5	c	45	85	8	5700	Nb	2	A.Cu	8	*
Renfrew	1023.8	-3	-	0	0m	44	85	5	2500	St.	10	-	10	1
Edinburgh (Inchkeith)	1023.6	-3	SW	3	mo-	43	85	6	*	St.Cu	10	-	10	*
Leuchars	1023.2	-3	WSW	1	mmo	39	92	5	4000	St.Cu	10	-	10	1
Eskdalemuir	1024.9	-2	S'W	2	od₀d₀	39	92	6	1500	Nb	10	-	10	1
Tynemouth	1025.6	-3	SW	1	ff b	44	92	3	-	-	0	-	0	*
Blacksod Point														*
Donaghadee	1023.6	-4	SW	1	0-	47	75	8	4000	St.Cu	9	-	9	*
Birr Castle	*													*
Holyhead	1026.4	-3	S'W	4	0	46	85	7	1500	St.Cu	10	-	10	0
Liverpool (Bidston)	1026.7	-2	SSE	1	bc-	45	85	5	4000	St.Cu	3	Ci.Cu	6	*
Chester (Shotwick)	1027.3	-3	SSE	2	bc/f	47	85	5	4000	St.Cu	4	-	4	0
Spurn Head	1028.2	-1	SW	2	0	41	85	5	1500	St.	10	-	10	*
Nottingham	1028.6	*	SW	2	0	40	85	5	1500	St.	10	-	10	*
Cranwell	1028.8	-2	S'W	3	0	40	85	6	2500	St.Cu	10	-	10	0
Gorleston	1029.3	0	SW'W	1	0	39	75	6	4000	St.	10	-	10	*
Valencia (Cahirciveen)	1019.2	-5	S'E	6	orr	49	92	6	450	St.	10	-	10	1
Roches Point														*
Pembroke (St. Ann's H.)	1027.7	-1	S	4	0+	45	75	8	2500	St.Cu	10	-	10	*
Ross-on-Wye	1029.1	-2	SSW	3	0-	42	75	7	4000	St.Cu	9	-	9	0
Benson	1030.0	-1	S	2	0	40	75	7	*	St.Cu	10	-	10	1
Andover	1030.2	-1	S	2	0+	42	85	7	4000	St.Cu	10	-	10	0
S. Farnborough	1030.6	-2	WSW	2	mmo	40	85	6	4000	St.Cu	10	-	10	0
London (Kew Obsy.)	1030.6	-2	SW	2	0	41	75	6	2500	St.Cu	10	-	10	1
Croydon	1031.0	-1	SW	2	0	38	75	6	4000	St.Cu	10	-	10	1
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1031.1	-1	W	1	mo+	39	65	7	2500	St.Cu	9	-	9	*
Grain	1031.1	0	SW	3	0	39	75	5	2500	St.	10	-	10	1
Lympne	1030.9	-1	W'S	2	0	38	75	6	1500	St.Cu	10	-	10	1
Scilly (St. Mary's)	1026.9	-2	S	3	0	49	65	6	4000	St.Cu	10	-	10	*
Falmouth (Pendennis)	1029.1	-4	SSW	4	0+	48	65	9	5700	St.Cu	10	-	10	*
Plymouth (Cattewater)	1028.1	-4	E	1	0+	43	85	8	4000	Cu Nb	9	-	9	-
Portland Bill	1029.2	-3	NE	4	0	45	85	7	1500	St.Cu	10	-	10	*
Southampton (Calshot)	1032.7	-2	SE'E	3	mmo	42	75	6	4000	St.Cu	10	-	10	0
Dungeness	1031.0	+1	NW	2	0	40	85	7	1500	St.	10	-	10	*
Jersey 7h	1030.8	0	S	3	0	44	75	7	1500	St.Cu	10	-	10	*
Guernsey 1h														

Observations at 1800 G.M.T. 11th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1017.0	-3	SW	3	0	41	92	7	-	-	0	-	0	2
Stornoway	1015.5	-3	SSW	5	0	47	85	6	800	St	10	-	10	4
Wick	1017.3	-4	SSW	4	0	41	92	8	800	St	10	-	10	1
Castlebay	1014.9	-4	WSW	5	or₀r₀	48	92	5	800	Nb	10	-	10	6
Nairn	1017.9	*	-	0	0+	40	85	8	1500	St	10	-	10	*
Aberdeen	1020.6	-3	SW	1	b	34	85	4	-	-	0	-	0	0
Malin Head	1016.1	-2	SSE	5	0	47	85	7	5700	Nb	7	ACu	9	2
Renfrew	1020.7	-3	SSW	3	0	46	85	6	2500	StCu	10	-	10	*
Edinburgh (Inchkeith)	1021.1	-2	WSW	2	0-	45	85	7	*	St	2	ASt	10	2
Leuchars	1020.6	-3	-	0	mmo	41	92	5	2500	StCu	10	-	10	*
Eskdalemuir	1022.4	-2	SW'S	4	od₀d₀	42	92	6	1500	Nb	10	-	10	*
Tynemouth	1024.1	-2	SW	2	mb-	43	85	4	-	-	0	-	0	0
Blacksod Point														*
Donaghadee	1020.8	-2	ESE	2	0	47	85	7	4000	Cu	7	ACu	10	1
Birr Castle	*													*
Holyhead	1023.6	-2	S	5	0	45	85	7	1500	St	10	-	10	3
Liverpool (Bidston)	1025.4	-1	S'E	2	0+	41	85	5	600	StCu	10	-	10	3
Chester (Shotwick)	1026.2	-1	SSE	2	mo+	39	85	5	2500	St	10	-	10	*
Spurn Head	1027.1	-1	S'W	4	b	37	97	5	-	-	0	-	0	3
Nottingham	1027.6	*	SW	2	c-	40	85	6	-	-	0	ACu	8	*
Cranwell	1028.0	-1	SW'W	3	b-	35	92	6	-	-	0	-	0	*
Gorleston	1028.8	0	SW	1	0	37	85	6	4000	St	10	-	10	0
Valencia (Cahirciveen)	1016.7	-2	S'E	5	o/r	51	92	5	450	St	10	-	10	6
Roches Point														*
Pembroke (St. Ann's H.)	1024.6	-2	S	6	0	46	75	8	2500	StCu	10	-	10	4
Ross-on-Wye	1027.8	-2	SSW	2	b	37	85	5	-	-	0	-	0	*
Benson	1029.0	-1	S	1	c	33	85	7	*	StCu	8	-	8	*
Andover	1029.2	-1	SSE	1	0	39	92	6	2500	StCu	10	-	10	*
S. Farnborough	1029.6	-1	WSW	2	0	35	85	7	2500	StCu	10	-	10	*
London (Kew Obsy.)	1029.9	-1	SSW	1	0	39	85	5	4000	StCu	9	-	9	*
Croydon	1029.8	-2	SSW	2	0	38	85	5	4000	StCu	10	-	10	*
Clacton-on-Sea	1029.6	0	W	3	0	38	85	5	4000	St	10	-	10	1
Shoeburyness	1030.1	-1	W	1	ffbc	36	65	1	2500	StCu	6	-	6	*
Grain	1030.3	-1	S	2	c-	38	85	6	2500	St	8	-	8	0
Lympne	1029.8	-1	-	0	0	38	75	6	2500	StCu	10	-	10	*
Scilly (St. Mary's)	1025.6	-2	S	4	0	50	75	7	4000	StCu	10	-	10	6
Falmouth (Pendennis)	1027.0	-2	SSW	6	0	48	75	7	4000	StCu	10	-	10	1
Plymouth (Cattewater)	1027.7	0	S	3	0+	47	75	7	1500	St	10	-	10	3
Portland Bill	1027.9	-2	WSW	4	0	45	85	7	4500	St	10	-	10	3
Southampton (Calshot)	1029.6	-1	SW	3	0	45	65	7	4000	StCu	10	-	10	3
Dungeness	1030.2	-1	W	1	0	40	92	7	-	-	0	A.St	10	2
Jersey 7h	1029.5	0	S	3	0	43	75	7	1500	StCu	10	-	10	3
Guernsey 1h														

LONDON OBSERVATIONS

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 12th								YESTERDAY.		TO-DAY.
Kew } 24 hours ended 0700	0m0z	0m	00m	*	*	36	-	-	0.0	*	*
Croydon } 24 hours ended 0700	022	022m	0m	*	*	36	-	-	0.0	*	*
Greenwich (Royal Obsy.)	0m	0	0	43	35	30	-	-	0.0	74	80
City (Bunhill Row)	*	*	*	*	*	-	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*	45	39	33	-	-	0.0	72	77
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0.0	*	*
Camden Square	bc	0	*	44	39	34	-	tr	*	*	79
Kensington Palace	0	0	*	40	40	36	-	-	*	73 (18h)	78
Hampstead Observatory	*	*	*	42	36	26	-	-	0.0	*	81

ATMOSPHERIC POLLUTION.

Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1000 G.M.T. 11th

South Kensington

Max.	Time.	Min.	Time.

Kew Observatory

Max.	Time.	Min.	Time.
0.7	20h.10m	0.3	24h-3h
0.9	7h.11m		11th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 11th 16h.45m to 12th 4h.0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 10	10 05	8
5 Ursae Minoris	14 15	05 01	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 today in 1300 & 1800 reports (Hoar frost in 0900 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
15h.	C	5	-	150°
18h.	C	5	-	115
21h.	C	5	-	35
27h.	C	5	-	25

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

12th & 13th DECEMBER, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.57 / 7.58	11.44 / 11.44	3.36 / 3.36
Greenwich	7.58 / 7.59	11.54 / 11.54	3.49 / 3.49
Wick	8.25 / 8.26	12.6 / 12.6	3.16 / 3.16
Valencia	8.42 / 8.40	12.35 / 12.36	4.27 / 4.27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—

R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

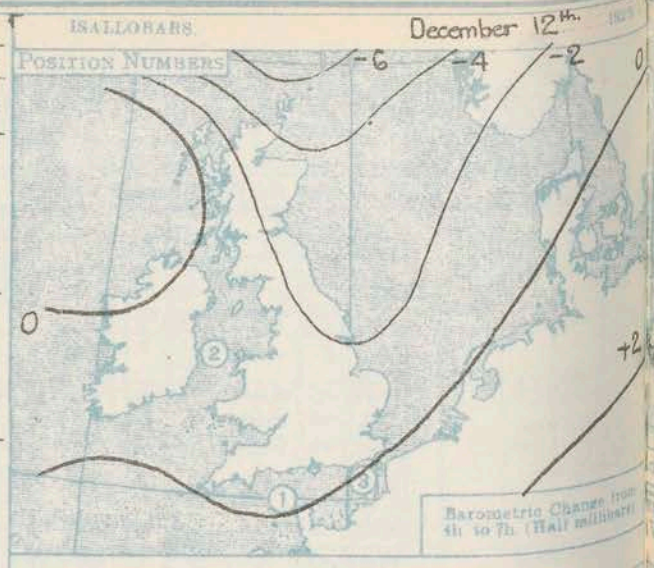
The BEAUFORT SCALE of WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers, is the speed at about 30 feet above the ground.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 11h	13h.-18h. 11h	18h. 11 to 1h 12h	1h.-7h. 12h	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. Hours.
Lerwick	oo	o	o	omr	43	40	•	Trace	1	12·30	0430	0·0
Stornoway	oo	oo	fwd	rr	47	46	•	–	3	–	–	0·0
Wick	oo	oo	oir₀	r	41	40	•	–	Trace	–	2400	•
Castlebay	oo	or₀r₀	rr₀o	op	48	47	•	Trace	1	1730	–	0·0
Nairn	cg₀		eg	eg	40	40	•	–	–	–	–	0·2
Aberdeen	abm	bmx	bmxo	oo	34	34	26	–	–	–	–	3·0
Malin Head	c	cog3	bcp₀	bcco	47	45	•	–	Trace	–	2100	0·7
Renfrew	omm	omm		oqroo	46	46	44	–	1	–	0230	0·0
Edinburgh (Inchkeith)	coim	oo	oo	id₀	45	45	43	–	Trace	–	0630	0·3
Leuchars	f.m	form		r	42	41	36	–	Trace			0·2
Eskdalemuir	bqod₀	foid₀	oodm	orm	42	40	39	Trace	5	1330	2400	0·0
Tynemouth	bff	bff	om	m	44	40	36	–	–	–	–	•
Blacksod Point ...							•					•
Donaghadee	oo	c	cq	oo	48	48	•	–	–	–	–	•
Birr Castle ...												
Holyhead	oo	oo	ooq	ord₀	47	46	44	–	1	–	0330	0·0
Liverpool (Bidston) ...	abcc	co		oc	46	38	36	–	–	–	–	1·5
Chester (Shotwick) ...	ocpom	com	bc	eom	43	38	36	–	–	–	–	•
Spurn Head	oo	c	b-bc	bxco	41	34	•	–	Trace	–	2100	0·0
Nottingham	om	oo	cb	oo	40	29	23	–	–	–	–	0·0
Cranwell	oomm	oo	m	beo	40	30	28	–	–	–	–	0·0
Gorleston	oo	omo	bocm	cxo	39	33	29	–	–	–	–	0·0
Valencia (Cahirciveen)	qmr	omir	bp	oim	51	50	47	3	2	1100	2100	oo
Roches Point							•					•
Pembroke (St. Ann's H.)	oo	oq	oo	odrq	48	47	•	–	0·6	–	1930	0·0
Ross-on-Wye	oo	bcb3	bmwcomo	mo	43	34	28	–	–	–	–	2·1
Benson...	o	c	o	o	40	32	24	–	–	–	–	•
Andover	cbco	oo	oo	oo	44	38	37	–	–	–	–	1·7
S. Farnborough ...	oomm	oo	om	omo	41	38	37	–	–	–	–	0·0
London (Kew Obsy.) ...	omq	om	omo	oom	41	39	36	–	–	–	–	0·0
Croydon	o33	o33m	om	om	39	37	36	–	–	–	–	0·0
Clacton-on-Sea ...	ogm	ogcbccm	cmog		39	36	29	–	–	–	–	0·0
Shoeburyness	oom	omcbm	bcc	o	42	35	31	–	–	–	–	0·0
Grain	omo3	b	coom	omm	40	37	33	–	–	–	–	0·0
Lympne	om	oo	oo	omm	38	36	35	–	–	–	–	0·0
Scilly (St. Mary's) ...	om.m	o	opoq	amqd₀	50	48	•	–	1	–	2200	0·0
Falmouth (Pendennis)	bco	o		om₀	49	48	•	–	–	–	–	1·0
Plymouth (Cattewater)	b.bco	opo	opo	odo	47	46	44	Trace	0·1	1630	2100	3·5
Portland Bill	oo	oo	oo	oo	46	39	•	–	–	–	–	•
Southampton (Calshot)	f.m	oo	oo	oo	45	43	43	–	–	–	–	0·0
Dungeness	oo	oo	oo	oo	40	40	•	–	–	–	–	•
Jersey 7h } ..	oo	oo	oo	o	46	42	•	–	–	–	–	0·0
Guernsey 1h }												



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	11th 1005	Reindeer	S	6	om	48	51	7
3	12th 0300		SW	4	b	42	48	7

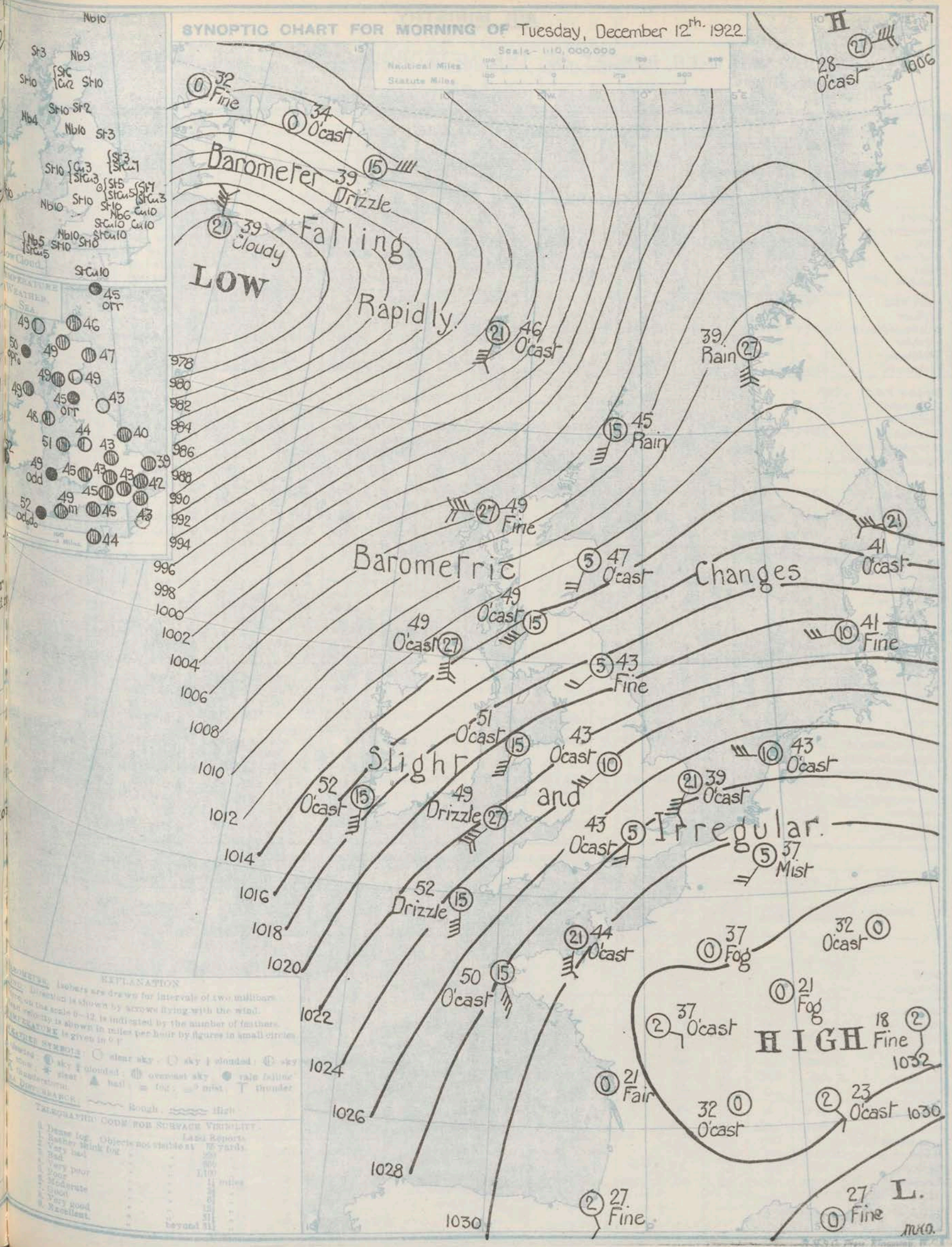
GENERAL INFERENCE.

A deep depression situated near Iceland and moving northeast will occasion fresh or strong southwesterly to westerly winds over the British Isles. Mild cloudy weather is likely generally probably followed later by a lower temperature in the North. Some rain or showers will occur in most districts but probably not until Wednesday in the Southeast of England.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Tuesday, 12th. December 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind southwesterly, fresh at times ; cloudy, probably a little rain later; visibility mainly good; mild.	Unsettled in the North; probably continuing mild in the South with little precipitation
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind southwesterly to westerly, fresh or strong at times; cloudy, occasional rain or drizzle; visibility moderate or good; mild.	----------
11. E. Scotland ▼ 12. S.W. Scotland	Wind southwesterly to westerly, strong at times; changeable some rain or showers; visibility mainly good; mild at first temperature probably falling later.	▼ South cone hoisted at 1100 GMT Dec 11th 1922.
13. Isle of Man	As 4 to 10.	
▼ 14. N. & N.W. Scotland ▼ 15. Hebrides ▼ 16. Orkneys and Shetlands ▼ 17. N.W. Ireland	As 11 and 12.	----------
▼ 18. N.E. Ireland 19. S.E. Ireland ▼ 20. S.W. Ireland	As 4 to 10.	MAL

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0905 GMT. G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Tuesday, December 12th. 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
H
28 O'cast 1006
Fine
34 O'cast
Barometer 39 Drizzle
39 Cloudy
Falling
LOW
Rapidly
46 O'cast
39 Rain
45 Rain
49 Fine
Barometric
47 O'cast
Changes
41 O'cast
49 O'cast
49 O'cast
41 Fine
43 Fine
51 O'cast
43 O'cast
43 O'cast
Slight
and
Irregular.
52 O'cast
49 Drizzle
39 O'cast
43 O'cast
37 Mist
52 Drizzle
44 O'cast
37 Fog
32 O'cast
50 O'cast
21 Fog
37 O'cast
HIGH
18 Fine
1032
21 Fair
32 O'cast
23 O'cast
1030
27 Fine
27 Fine
L.
1030
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
EXPLANATION
TELEGRAPHIC CODE FOR SURFACE VISIBILITY

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION ... TUESDAY, 12th DECEMBER ... 1922. No. 346.

Observations at 0100 G.M.T. ... 12th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1013·3	-5	SW	4	0	44	85	7	-	-	0	a St	10	•
Stornoway	1008·5	-5	S	6	r+	•	•	4	•	•	•	•	•	•
Wick	1011·4	-5	SSW	4	0/r	45	92	8	2500	Nb	6	a St	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1010·9	-3	S	7	bc/r	49	92	7	5750	Nb	3	a.Cu	4	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1017·5	-3	SW	3	0	47	85	8	-	-	0	a St	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1021·9	-3	SSW	2	0	41	92	5	-	-	0	a. St	10	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1021·2	-2	S	5	0	49	92	7	1500	St	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1025·1	-1	SSW	3	b	34	92	6	-	-	0	-	0	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1026·7		SW'W	3	b	34	92	6	-	-	0	-	0	•
Gorleston	1028·6	0	SW'S	3	bc-	34	85	6	4000	St	5	-	5	•
Valencia (Cahirciveen)	1016·2	0	SSE	3	b/r	52	97	7						•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1023·3	0	S'W	6	0	50	85	7	1500	St	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	1029·2	-1	SSW	2	0	40	85	7	2500	St Cu	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1029·7	0	SW	3	0	40	92	7	1500	St Cu	10	-	10	
Scilly (St. Mary's) ...	1024·5	0	SSW	4	0	51	85	7	4000	St Cu	10	-	10	•
Falmouth (Pendennis)														•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1026·9	0	SW	5	0	44	85	6	450	St	10	-	10	•
Southampton (Calshot)	1028·8	-1	SW'W	4	0	45	75	8	4000	St Cu	10	-	10	•
Dungeness	1029·5	-1	SW	3	0	38	92	7	-	-	0	a. St	10	•
Jersey 7h }	1030·8	0	SSW	3	0	43	85	6	2500	St	10	-	10	•
Guernsey 1h }														

Observations at 0700 G.M.T. ... 12th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1007·4	-6	SSW	4	0/r+	45	92	6	2500	Nb	10	-	10	3
Stornoway	1005·1	+1	W	6	b/r	49	85	6	450	St	3	-	3	5
Wick	1007·6	-4	SSW	4	0/r	46	97	8	1500	Nb	9	-	9	3
Castlebay	1010·0	0	WSW	4	0/r	50	85	6	1500	St	10	-	10	6
Nairn	1008·3	•	WSW	3	0	49	75	8	1500	St	8	-	8	•
Aberdeen	1012·2	-3	SSW	2	0	47	85	7	1500	St	10	-	10	0
Malin Head	1012·6	+1	S	6	0	49	92	7	5750	Nb	4	a. St	10	4
Renfrew	1014·5	-1	SW	4	0/r	45	85	6	2500	St	10	-	10	•
Edinburgh (Inchkeith)	1013·0	-5	SW	4	b-	49	85	8		St	2	ci St	3	•
Leuchars	1013·2	-3	SW	4	0/r	48	92	8	2500	St Cu	10	-	10	•
Eskdalemuir	1016·7	-2	SSW	5	0/r+	45	97	5	800	Nb	10	-	10	0
Tynemouth	1018·1	-3	SW	2	b-	43	92	6	4000	St	3	-	3	
Blacksod Point ...	1017·0	0	SSW	1	c-	48	85	8	-	-	0	a. St	8	1
Donaghadee														•
Birr Castle														•
Holyhead	1020·1	-1	SSW	4	0/r	51	97	7	800	St	10	-	10	4
Liverpool (Bidston) ...	1021·5	-1	SSE	5	bc-	44	85	6	2500	Cu	6	-	6	4
Chester (Shotwick) ...	1021·8	-1	SW	2	0+	45	85	5	2500	St	10	-	10	•
Spurn Head	1023·6	-2	S'W	5	0	40	92	6	1500	St Cu	10	-	10	3
Nottingham	1024·4	•	SW	5	0	43	85	6	-	-	0	a St	10	•
Cranwell	1025·2	-1	SW'S	4	0	41	92	6	2500	St	10	-	10	•
Gorleston	1027·2	-1	SSW	5	0+	39	92	6	4000	St	10	-	10	1
Valencia (Cahirciveen)	1017·6	-1	S	4	0	52	92	6	450	St	10	-	10	-
Roches Point														
Pembroke (St. Ann's H.)	1021·9	-2	SW	6	0 dd	49	97	7	800	Nb	10	-	10	6
Ross-on-Wye	1025·3	-1	SW'S	4	0	45	85	6	2500	St	10	-	10	•
Benson...	1026·6	0	S'W	4	0	43	85	6	-	St	10	-	10	•
Andover	1027·5	0	S	3	0	43	92	7	1500	St Cu	10	-	10	•
S. Farnborough ...	1028·0	0	SSW	5	0/r	45	85	7	2500	St Cu	10	-	10	•
London (Kew Obsy.) ...	1028·0	0	S'W	2	0	43	85	6	1500	Nb	6	a St	10	•
Croydon	1028·4	-1	S'W	3	0	41	85	6	1500	St Cu	10	-	10	4
Clacton-on-Sea ...	1028·3	-2	SSW	4	0	42	85	7	4000	Cu	10	-	10	•
Shoeburyness	1028·7	-1	SW	5	0	41	75	7	2500	St Cu	10	-	10	0
Grain	1029·1	-1	S	4	0	42	85	6	2500	St	10	-	10	•
Lympne	1029·5	0	SW	3	0	40	75	6	800	St	10	-		
Scilly (St. Mary's) ...	1025·0	0	S	4	0 dd	52	92	6	4000	Nb	10	-	10	5
Falmouth (Pendennis)	1025·4	0	SSW	5	0	49	97	6	1500	St	10	-	10	3
Plymouth (Cattewater)	1025·3	+1	S	4	0 a	48	97	8	1500	Nb	10	-	10	3
Portland Bill	1026·3	-1	SW	5	0	45	85	7	450	St	10	-	10	4
Southampton (Calshot)	1028·7	0	SW	4	0	45	85	8	4000	St Cu	10	-	10	0
Dungeness	1029·4	0	SW	4	0	43	85	8	2500	Cu	10	-	10	4
Jersey 7h }	1029·6	0	S	5	0	44	79	7	2500	St Cu	10	-	10	4
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 10th-11th °F.	Temperature. Max. Day. 11th °F.	Rainfall.† Night 17h.-9h. 10th-11th mm.	Rainfall.† Day 9h.-17h. 11th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 11th hr.
Banff								
Montrose	*	*	27	32	-	-		3·5
Llandudno	c	bco	38	48	-	-		2·1
Colwyn Bay ...	c	bcc	42	47	-	-		2·4
Rhyl...	cbc	bc	36	48	-	-		2·7
Southport	oco	oco	39	43	-	-		0·0
Blackpool	mo	co	39	43	-	-		0·0
Harrogate	oc	coc	36	45	-	-		1·1
Skegness	mo	o	37	40	-	-		0·0
Aberystwyth ...	ooc	b	37	46	-	-		3·0
Bath	moc	bcb	27	44	-	-		2·3
Leamington Spa ...	o	om	32	41	-	-		0·0
Lowestoft	omov	om	37	39	-	-		0·0
Felixstowe	om	om	37	39	-	-		0·0
Southend	mo	o	38	40	-	-		0·0
Paignton	cof	dco	30	45	-	-		1·5
Ilfracombe	b	bbc	39	49	-	-		5·8
Bude	bc	bcbcb	30	48	-	-		4·3
Penzance	og	og	41	50	-	-		0·0
Falmouth Observatory	bco	o	37	47	-	-		0·8
Torquay	cmbc	bcco	34	46	-	-		1·4
Weymouth	o	o	31	47	-	-		0·0
Bournemouth ...	o	o	36	45	-	-		0·0
Portsmouth (S'thsea)	om	of	40	43	-	-		0·0
Worthing	co	o	39	43	-	-		0·0
Brighton	o	o	40	43	-	-		0·0
Eastbourne	o	o	37	42	-	-		0·0
Hastings	om	oms	39	41	-	-		0·0
Folkestone	o	o	36	45	-	-		0·0
Tunbridge Wells ...	o	o	37	39	-	-		0·0
Ramsgate	o	o	36	43	-	-		0·0
Margate	o	o	39	41	-	-		0·0
Deal	mo	o	39	41	-	-		0·0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22301 Wednesday, 13th December 1922.

Observations at 1300 G.M.T. 12th

Stations.	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	State of Ground.
Lerwick	1005.6	0	WSW	6	0	47	85	7	5700	St.Cu	2	A.St	10	*
Stornoway	1005.3	0	SW	3	or.r.	50	85	6	450	St.	10	-	10	*
Wick	1007.6	0	SW	3	0	47	97	8	4000	Cu	6	A.St	10	*
Castlebay	1007.0	-3	S	5	orr	50	92	6	800	Nb	10	-	10	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1011.7	-1	SSW	3	0	48	85	6	-	-	0	A.St	10	1
Malin Head	1009.9	-4	S	6	or.+	49	92	7	2500	St.	2	A.St	10	*
Renfrew	1013.9	-1	SW	4	or.	50	85	6	800	Nb	10	-	10	2
Edinburgh (Inchkeith)	1013.8	-1	SW	4	0+	49	85	7	*	St.	3	A.Cu	10	*
Leuchars	1013.6	0	SW	4	0	49	85	6	1500	St.	4	A.St	10	1
Eskdalemuir	1016.3	0	SW	4	0	47	92	6	1500	St.	10	-	10	2
Tynemouth	1017.8	0	SW	2	0	50	85	5	4000	Nb	10	-	10	*
Blacksod Point														*
Donaghadee	1016.6	-2	SW	2	c-	50	85	8	-	-	0	A.St	8	*
Birr Castle	1015.3	*	SE	2	c-	53	85	7	2500	Nb	8	-	8	*
Holyhead	1019.0	-4	SSW	5	or.	51	97	7	800	Nb	7	A.St	10	2
Liverpool (Bidston)	1020.0	-2	SSW	3	0+	51	85	7	2500	Cu.Nb	6	Ci.Cu	9	*
Chester (Shotwick)	1021.0	-2	S	4	0/r	49	92	6	1500	St.Cu	7	Ci.St	10	0
Spurn Head	1021.6	-2	SW	5	0	46	92	6	-	-	0	A.St	9	*
Nottingham	1022.9	*	SW	4	0	48	85	7	1500	St.Cu	10	-	10	*
Cranwell	1023.8	-2	SWS	5	0	47	85	6	1500	St.	9	A.Cu	10	0
Gorleston	1026.2	-1	SW	4	0	43	75	6	4000	St.Cu	10	-	10	*
Valencia (Cahirciveen)	1015.9	-4	S	5	0	54	92	6	800	St.	10	-	10	-
Roches Point														*
Pembroke (St. Ann's H.)	1022.3	-1	SSW	6	0	51	85	7	2500	St.Cu	10	-	10	*
Ross-on-Wye	1024.3	-2	SW	5	od.+	49	85	7	2500	Nb	10	-	10	5
Benson	1026.4	-2	SW	4	0	46	85	6	*	St	10	-	10	1
Andover	1027.0	-1	SSW	5	0	47	97	7	1500	St.Cu	10	-	10	0
S. Farnborough	1027.9	-1	SW	3	mmo	45	85	6	1500	St.	10	-	10	0
London (Kew Obsy.)	1027.7	-1	SSW	3	0	46	85	6	2500	St.Cu	10	-	10	1
Croydon	1027.9	-1	SSW	4	0	44	85	6	1500	St.	10	-	10	1
Cleeton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1028.4	0	SSW	2	mmo	44	75	6	2500	St.Cu	10	-	10	*
Gwain	1028.2	-2	SSW	4	0	44	85	7	4000	St.Cu	10	-	10	1
Lympne	1029.1	-2	SW	4	0	42	85	7	1500	St.	10	-	10	1
Scilly (St. Mary's)	1025.1	0	S	4	0/r	52	92	7	4000	St.Cu	5	A.Cu	9	*
Falmouth (Pendennis)	1025.7	0	SSW	5	7-	51	97	6	4000	Cu.Nb	9	-	9	*
Plymouth (Cattewater)	1025.9	-1	SSW	4	od	50	97	7	4450	St.	10	-	10	2
Portland Bill	1026.8	-2	SW	6	0	47	85	6	450	St.	10	-	10	*
Southampton (Calshot)	1028.6	-1	SWW	5	0	47	85	6	1500	St.Cu	10	-	10	0
Dungeness	1028.9	-2	SW	5	o/p	44	92	7	1500	St.	10	-	10	*
Jersey	1029.8	0	S	5	0	44	75	7	2500	St.Cu	10	-	10	*

Observations at 1800 G.M.T. 12th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1004.9	-1	SW	5	or.r.	46	92	6	4000	Nb	10	-	10	4
Stornoway	996.6	-9	SSW	6	orr	50	97	6	450	St	10	-	10	5
Wick	1002.8	-7	SSW	6	orr	48	92	8	2500	Nb	10	-	10	3
Castlebay	1001.0	-4	W	6	or.r.	53	97	5	800	Nb	10	-	10	7
Nairn	1004.0	*	-	0	C	47	86	8	4000	Cu.Nb	8	-	8	*
Aberdeen	1008.6	-5	SWS	3	or.	48	85	6	2500	Nb	10	-	10	0
Malin Head	1004.5	-4	S	8	0	53	92	7	5700	Nb	4	A.St	10	4
Renfrew	1009.5	-7	SSW	4	orr	50	92	6	1500	Nb	10	-	10	*
Edinburgh (Inchkeith)	1008.8	-7	SW	4	0	51	75	8	*	St	10	-	10	4
Leuchars	1009.3	-7	SW	4	0	50	75	7	1500	St	3	Cu.St	10	*
Eskdalemuir	1013.8	-3	SSW	6	od.	47	97	6	800	Nb	10	-	10	*
Tynemouth	1015.9	-2	SSW	2	0	51	85	6	4000	St.Cu	10	-	10	1
Blacksod Point														*
Donaghadee	1012.8	-4	SW	2	0	51	85	8	4000	St.Cu	7	A.St	10	2
Birr Castle	1012.6	*	S	3	0+	55	85	6	800	St.Cu	10	-	10	*
Holyhead	1017.2	-1	SW	5	od.	52	97	7	800	St	10	-	10	4
Liverpool (Bidston)	1018.6	-2	SWS	4	0	51	85	8	2500	St	10	-	10	5
Chester (Shotwick)	1019.0	-1	SSW	4	0	63	75	6	2500	St.Cu	8	A.St	10	*
Spurn Head	1021.4	0	SW	4	0	45	92	7	4000	St	10	-	10	3
Nottingham	1021.9	*	SSW	3	0	50	92	6	2500	St.Cu	10	-	10	*
Cranwell	1022.9	0	SSW	4	0	48	85	6	1500	St	10	-	10	*
Gorleston	1025.2	-1	SWS	5	0	43	85	6	4000	St.Cu	10	-	10	2
Valencia (Cahirciveen)	1013.7	-1	S	5	0	55	92	6	800	St	10	-	10	6
Roches Point														*
Pembroke (St. Ann's H.)	1020.9	-1	SW	5	od.	51	92	7	1500	Nb	10	-	10	6
Ross-on-Wye	1023.2	-2	SWS	4	0	49	85	7	2500	St	10	-	10	*
Benson	1025.8	0	S	4	0	45	92	6	*	Nb	10	-	10	*
Andover	1026.4	0	S	4	odd.	45	97	5	800	Nb	10	-	10	*
S. Farnborough	1028.0	0	SW	4	mmo	45	92	6	1500	St	10	-	10	*
London (Kew Obsy.)	1027.1	0	SW	3	0	46	85	6	2500	St.Cu	10	-	10	*
Croydon	1027.3	+1	SWS	4	odd.	44	92	5	800	St	10	-	10	*
Cleeton-on-Sea	1026.8	-1	SSW	4	0	43	92	6	4000	St	10	-	10	2
Shoeburyness	1027.2	-1	SW	5	0/+	43	85	7	2500	St.Cu	10	-	10	*
Gwain	1027.8	0	SSW	4	0	43	92	7	2500	St	10	-	10	3
Lympne	1029.0	+1	SSW	4	0	41	85	7	1500	St	10	-	10	*
Scilly (St. Mary's)	1024.0	0	SSW	4	0	52	97	6	1500	St	10	-	10	5
Falmouth (Pendennis)	1025.1	0	SW	4	0	51	92	7	4000	St	9	-	9	3
Plymouth (Cattewater)	1025.5	+1	SSW	3	0-	51	97	8	1500	St	10	-	10	3
Portland Bill	1026.2	-2	SSW	6	0	47	85	6	450	St	10	-	10	5
Southampton (Calshot)	1027.7	0	SW	5	0	46	85	7	1500	St	10	-	10	3
Dungeness	1029.0	-1	SW	5	0	44	92	7	1500	St	10	-	10	4
Jersey	1029.0	0	S	4	0/r	43	85	7	1500	Nb	10	-	10	4

LONDON OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 13th								YESTERDAY.		TO-DAY.
Kew											
Croydon } 24 hours ended 0700	0 mm	0 mdo	0 mm	*	*	44	-	-	0.0	*	*
Greenwich (Royal Obsy.)	0 mm	0 mdo	0 mdo	*	*	42	tr	tr	0.0	*	*
City (Bunhill Row)	0	0	0	50	43	42	-	-	0.0	84	89
Westminster (St. James' Pk.)	*	*	*	*	*	*	*	*	0.0	*	*
Regent's Pk. (Botanic Gdns.)	*	*	*	52	44	43	-	-	0.0	80	83
Camden Square	*	*	*	*	*	*	*	*	0.0	*	*
Kensington Palace	0	0	*	51	41	43	-	-	*	*	86
Hampstead Observatory	0	0	*	46	45	43	-	-	*	87 (18h)	86
	*	*	*	49	42	38	-	tr	0.0	*	89

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 12th

	Max.	Time.	Min.	Time.
South Kensington	1.0	18h. 11m.	0.3	0-24h.
	1.0	16h. 12m.		12m.
Kew Observatory	1.0	18h. 11m.	0.3	1-4h. 12m.
	0.5	9h. 12m.		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 12h 16m. to 13h 07m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 15	05 14	6
2 Ursae Minoris	14 16	9 0	1

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1800 reports (Hoar frost in 0900 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.†

Time.	Type.	No. per sec.	Stren.	Direc.
12h.	C	5	-	130°
13h.	C	5	-	110°
01h.	C	5	-	80°
02h.	C	5	-	110°

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

13th - 14th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7 58	11 47	3 36
	7 59	11 48	3 36
Greenwich	7 59	11 54	3 49
	8 00	11 55	3 49
Wick	8 56	12 06	3 16
	8 57	12 07	3 16
Valencia	8 43	12 35	4 27
	8 44	12 36	4 27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
p precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—

R = heavy rain.
rr = continuous moderate rain.
r.r.r. = continuous light rain.

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.

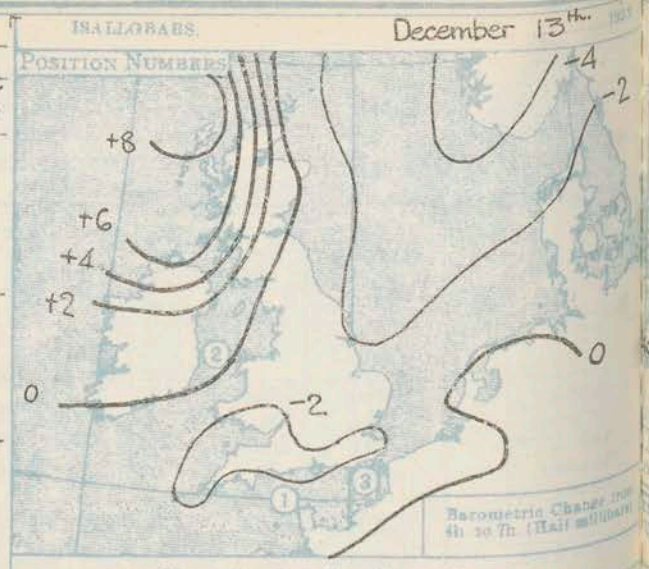
The BEAUFORT SCALE of WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers, is the speed at about 30 feet above the ground.

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

† For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 12ch	WEATHER. 13h.-18h. 12ch	WEATHER. 18h. 12ch to 1h. 13ch	WEATHER. 1h.-7h. 13ch	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on GRASS	RAINFALL† Day. 7h.-18h. mm.	RAINFALL† Night. 18h.-7h. mm.	RAINFALL† Precipitation began.	RAINFALL† Precipitation began.	SUN. 12h. Hours.
Lerwick	omq	omrq	omrq	omrq	48	45	•	1	12	0800	2100	•
Stornoway	r.d	r.d.	r	p	50	47	•	8	9	-	-	0·0
Wick	oo	orr	orrbc	b.bc	48	46	•	1	1	1630	2100	•
Castlebay	oprr	rrr	rro	oo	53	51	•	3	0·4	0800	-	0·0
Nairn	cq	cirq	cqbc	bcqir	51	47	•	1	1	1330	0130	0·0
Aberdeen	omm	mir	oir	ob	49	48	46	trace	trace	1730	2100	0·0
Malin Head	oo	ircoq	coq	irco	53	49	•	0·3	0·3	1330	0230	
Renfrew	omr	omrq	omqir	omirq	50	50	48	2	2	1230	2100	0·0
Edinburgh (Inchkeith)	c	oo	q	cq	51	53	49	-	trace	-	-	0·0
Leuchars	oo	or o	c		50	49	46	trace	trace	1430	2100	0·00
Eskdalemuir	ar o	oidm	oidor	orm	47	46	46	0·2	8	0800	2100	0·0
Tynemouth	oom	om	cmq	omq	51	50	46	-	-	-	-	•
Blacksod Point ...							•					•
Donaghadee	c	o	d	oo	52	51	•	-	trace	-	0630	•
Birr Castle ...	co	co	o	iR	55	54	50	-	1	-	0530	•
Holyhead	oir	iroid	dq	oidq	52	51	50	trace	0·1	-	2100	0·0
Liverpool (Bidston) ...	c	oo	-	oo	55	44	40	-	-	-	-	0·0
Chester (Shotwick) ...	oidm	oom		ooq	54	53	49	trace	-	0900	-	•
Spurn Head	oo	oo	oo	oo	46	43	•	-	-	-	-	0·0
Nottingham	oo	oo	o	oo	50	49	47	-	-	-	-	0·0
Cranwell	oom	f-m	rm	oco	48	47	46	-	-	-	-	0·0
Gorleston	oo	oo	oq	oqcqo	43	43	42	-	-	-	-	0·0
Valencia (Cahirciveen)	oom	om	orq	oor	55	53	52	trace	3	-	2100	0·0
Roches Point							•					•
Pembroke (St. Ann's H.)	oo	r-d	oo	oo	51	50	•	0·2	0·2	1530	2100	0·0
Ross-on-Wye	oido	idoq	oqidq	idoq	49	49	47	trace	trace	11·00	2100	0·0
Benson...	o	o	o	o	47	45	44	-	-	-	-	•
Andover	oo	odom	odom	oodm	47	45	44	trace	0·3	1330	2100	0·0
S. Farnborough ...	oom	oomrid	omodo	omodom	46	44	43	trace	0·1	1430	2100	0·0
London (Kew Obsy.)...	oom	omdm	omoo	oom	46	45	44	-	-	-	-	0·0
Croydon	om	omrq	omdo	omdo	44	43	42	trace	trace	1530	2100	0·0
Clacton-on-Sea ...	oq	oq	oq	oqc	43	43	41	-	-	-	-	0·0
Shoeburyness... ...	oom	omo	o	o	47	42	42	-	-	-	-	0·0
Grain	omma	oo	oo	oo	44	43	40	-	-	-	-	0·0
Lympne	oo	oo	oo	omrdd	42	41	37	-	0·1	-	0530	0·0
Scilly (St. Mary's) ..	co	om	oq	oqido	53	50	•	-	0·2	-	2100	0·2
Falmouth (Pendennis)	om	om	o	odo	52	51	•	0·2	0·2	0800	2200	0·4
Plymouth (Cattewater)	ododo	odoo	o	odd	51	51	49	0·5	1	0800	2100	0·0
Portland Bill	oo	oo	oo	oo	48	44	•	-	-	-	-	•
Southampton (Calshot)	oo	oo	ood	oid	47	46	45	-	trace	-	2100	0·0
Dungeness ..	oo	oo	ooq	r	44	43	•	-	trace	-	0330	•
Jersey ..	o	odo	oo	om	44	42	•	trace	-	1630	-	0·0



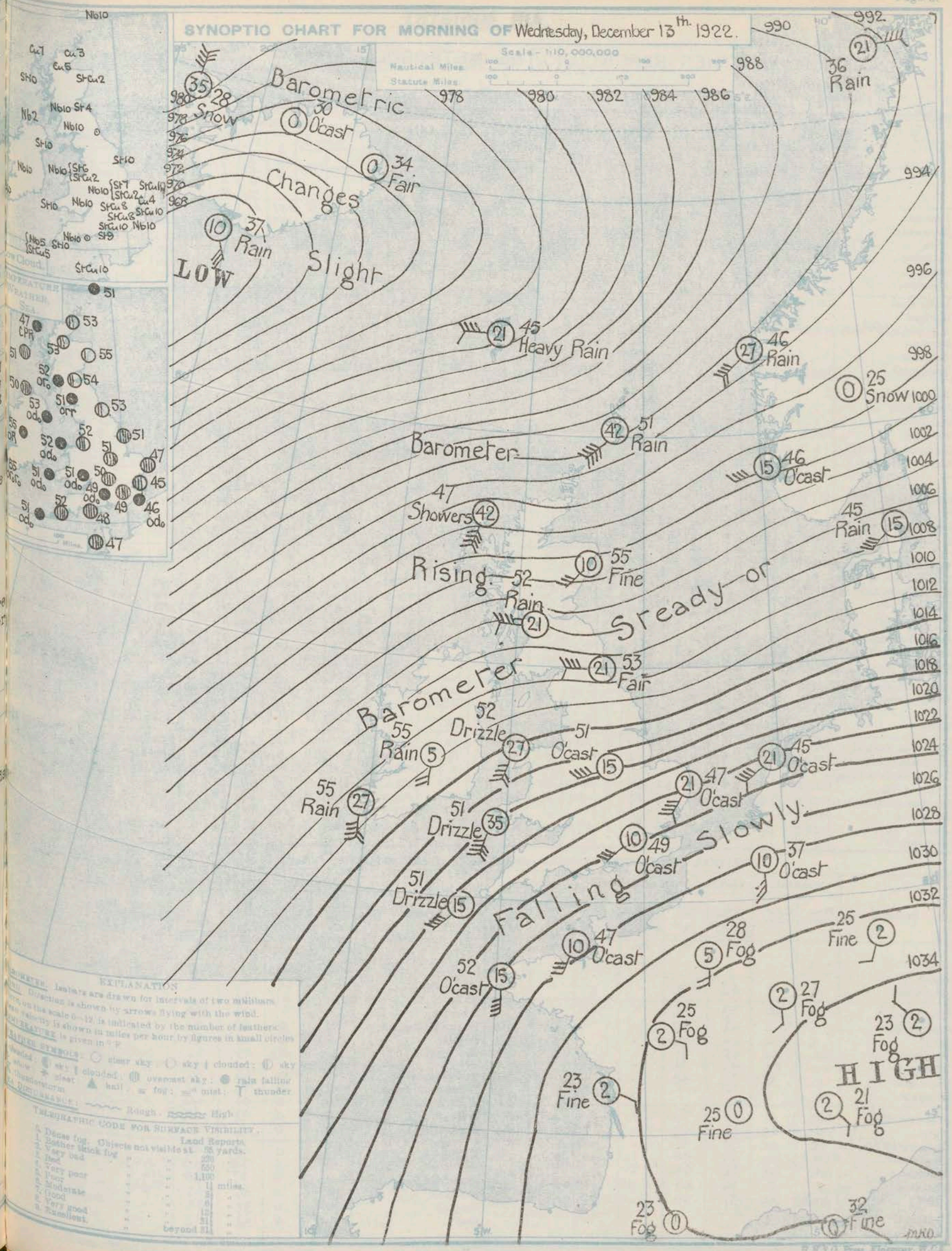
Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	
2	12ch 1000	Anglia	SSW	5	0	51	51	7
1	12ch 1300	Reindeer	SW	6	0	48	52	7
3	13ch 0300	Brighton	SW	5	0	46	47	4

GENERAL INFERENCE.

The main centre of low pressure remains near Iceland and pressure is highest over France and Switzerland. Winds over the British Isles will continue strong from between South and West, with occasional rain in all districts. Except in the North & Northwest temperature will continue mild today but there is a probability of rather colder conditions spreading to all districts on Thursday.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Wednesday, 13th December 1922.	Further Outlook.
▽1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands ▽5. S.W. England ▽6. South Wales	Fresh or strong southwesterly winds, a gale at times in exposed places; much cloud, occasional rain or drizzle; visibility moderate or good; mild, then rather colder.	Changeable weather with winds mainly between S and W.
▽7. North Wales ▽8. N.W. England 9. N. Midlands 10. N.E. England	Winds between S and W, strong, a gale at times in exposed places; much cloud at times, some rain; visibility moderate or good; mild, then rather colder.	
11. E. Scotland ▼12. S.W. Scotland ▽13. Isle of Man ▼14. N.& N.W. Scotland ▼15. Hebrides ▼16. Orkneys and Shetlands ▼17. N.W. Ireland	Winds between S and W, strong, a gale at times in exposed places; changeable, some rain or showers; visibility good; colder.	South cone hoisted ▼at 1515 on 11th. December, 1922. ▽at 1515 on 12th December, 1922.
▼18. N.E. Ireland ▽19. S.E. Ireland ▼20. S.W. Ireland	As 7 - 10.	


SYNOPTIC CHART FOR MORNING OF Wednesday, December 13th. 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometric Changes Slight
LOW
Barometer Rising Steady or Falling Slowly
HIGH
35 28 Snow
30 O'cast
34 Fair
10 37 Rain
21 45 Heavy Rain
27 46 Rain
0 25 Snow
42 51 Rain
15 46 O'cast
47 Showers 42
45 Rain 15
10 55 Fine
52 Rain 21
21 53 Fair
55 Rain 5
52 Drizzle 27
51 O'cast 15
55 Rain 27
51 Drizzle 35
21 47 O'cast
21 45 O'cast
10 49 O'cast
10 37 O'cast
51 Drizzle 15
52 O'cast 15
10 47 O'cast
5 28 Fog
25 Fine 2
2 27 Fog
23 2
25 Fog 2
23 Fine 2
25 0 Fine
2 21 Fog
23 Fog 0
32 Fine 0
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
978
980
982
984
986
988

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

Page 4. BRITISH SECTION. Wednesday, 13th December 1922. No. 347.

Stations	Observations at 0100 G.M.T. 13th														Observations at 0700 G.M.T. 13th													
	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	993·5	-8	SW	6	orr	49	97	[illegible]	2500	Nb	10	-	10	•	990·3	-2	SW	8	orr	51	92	6	2500	Nb	10	-	10	6
Stornoway	995·1	-3	SW	7	r	•	•	4	•	•	•	•	•	•	997·3	+9	SSW	8	CPR	47	75	6	4000	Cu	7	-	7	0
Wick	990·3	-1	SSW	4	b/r	50	97	8	4000	Cu	3	-	3	•	995·4	-1	WSW	7	bc	53	85	9	5750	Cu	3	Ci	5	7
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·0	+6	W	6	0	51	65	7	1500	St	10	-	10	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	998·6	•	WSW	6	bc-	53	75	8	4000	Cu	5	-	0	0
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1001·7	0	SW	3	b-	55	85	7	4000	StCu	2	-	2	4
Malin Head	1002·3	-2	S	7	cr₀	54	92	7	5750	Nb	5	a.St	8	•	1008·1	+6	SW'W	4	o/r	50	92	7	5750	Nb	2	a.St	9	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1007·3	+2	W	5	or₀	52	92	5	1500	Nb	10	-	10	5
Edinburgh (Inchkeith)	1006·2	+1	SW	5	0	55	75	9	-	St	5	a.St	10	•	1003·1	0	SW	6	bc-	54	85	9	-	St	4	-	4	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1003·4	0	SW	7	bc	54	85	7	800	St	5	a.Cu	6	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1008·3	0	SW	7	orr	51	97	5	800	Nb	10	-	10	2
Tynemouth	1012·4	-2	WSW	3	0	55	92	7	4000	StCu	10	-	10	•	1007·8	-1	W	5	bc-	53	85	6	-	-	0	a.Cu	6	•
Blacksod Point														•														
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1009·5	0	SW	2	od₀	53	92	7	1500	St	10	-	10	2
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1010·4	•	S	2	oR	55	92	6	450	Nb	10	-	10	•
Holyhead	1015·6	-1	S'W	5	odd₀	52	97	7	800	St	10	-	10	•	1014·6	0	SSW	6	od₀	52	97	6	450	Nb	10	-	10	6
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1014·4	-1	SW	6	c	52	85	8	2500	St	8	-	8	7
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1015·3	-1	S'W	6	0	55	75	7	1520	St	5	a.St	10	•
Spurn Head	1017·9	-2	S'W	5	0	43	92	7	-	-	0	a.St	10	•	1015·9	-2	SW'S	5	0	51	85	7	450	St	10	-	10	5
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1017·8	•	WSW	4	0	51	85	7	1500	Nb	10	-	10	•
Cranwell	1019·6	-2	SW	6	0	50	85	6	1500	St	10	-	10	•	1018·6	-1	SW	5	0-	50	85	7	1500	St	9	-	9	•
Gorleston	1023·2	-1	SW	6	0	44	92	7	4000	StCu	10	-	10	•	1021·8	-1	SW'S	5	0	47	97?	6	4000	StCu	10	-	10	4
Valencia (Cahirciveen)	1011·0	-3	SW	7	o/r	55	97	7	-	St	10	-	10	•	1010·8	0	S	6	orr	55	92	6	800	Nb	10	-	10	6
Loches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•														
Pembroke (St. Ann's H.)	1020·1	-1	SW	7	od₀	51	85	8	1500	StCu	10	-	10	•	1017·9	-2	SSW	7	od₀	51	85	7	1500	St	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1020·3	-2	SW'W	5	od₀	51	85	8	2500	Nb	10	-	10	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1022·2	0	SW	4	0	50	85	7	2500	St	10	-	10	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·1	-2	SSW	4	odd₀	50	97	6	800	Nb	10	-	10	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·5	-1	SW	4	od₀	49	92	6	1500	St-Cu	10	-	10	•
London (Kew Obsy.)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·4	-1	SW	3	0	49	92	6	2500	St-Cu	8	a.St	10	•
Croydon	1025·4	-1	SSW	5	od₀	44	97	6	800	Nb	10	-	10	•	1023·5	-2	SW'S	4	0	48	92	6	450	Nb	9	a.St	10	4
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·1	-1	SSW	4	c	45	97	6	4000	Cu	4	a.St	8	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·8	-1	S	5	0	47	85	7	2500	St-Cu	10	-	10	3
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1024·2	-3	SSW	5	0	47	92	7	2500	St	10	-	10	•
Lympne	1026·9	-2	SSW	5	0	43	92	6	1500	St	10	-	10	•	1025·4	-2	SW	5	odd₀	45	97	3	450	Nb	10	-	10	5
Scilly (St. Mary's)	1023·2	0	SSW	5	0	52	92	8	4000	StCu	10	-	10	•	1021·6	-2	SW	4	od₀	51	92	7	2500	Nb	10	-	10	3
Falmouth (Pendennis)	1023·6	-1	SW	5	0	51	92	7	4000	St	10	-	10	•	1021·8	+1	SW	6	0	52	92	7	4000	St	10	-	10	3
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1023·6	-1	SW	4	odd	51	97	7	1500	Nb	10	-	10	5
Portland Bill	1025·0	-2	SW	6	0	45	85	6	450	St	10	-	10	•	1024·4	-3	SW	6	0	48	85	6	2500	St	10	-	10	3
Southampton (Calshot)	1025·8	-1	SW	6	o/r	47	97	8	1500	St	10	-	10	•	1024·3	-2	SW'W	6	o/r	49	92	7	1500	St	9	-	9	5
Dungeness	1026·8	-2	SW	5	0	45	92	7	-	St	10	-	10	•	1025·3	0	SW	5	od₀	46	97	7	1500	Nb	10	-	10	3
Jersey 7h / Guernsey 1h	1028·0	-1	SW'S	5	0	46	97	5	5750	StCu	4	a.St	10	•	1027·9	0	SSW	3	0	47	92	7	2500	StCu	10	-	10	

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

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 11th-12th °F.	Temperature. Max. Day. 12th °F.	Rainfall.† Night 17h.-9h. 11th-12th mm.	Rainfall.† Day 9h.-17h. 12th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 12th hr.
Banff								
Montrose	*	*	32	49	-	-		0·0
Llandudno	c	c	39	55	-	-		0·7
Colwyn Bay	c	c	43	52	-	-		0·2
Rhyl	c	c	39	54	-	-		0·2
Southport	oc	co	40	51	-	-		0·0
Blackpool	mo	co	40	51	-	-		0·0
Harrogate	o	o	35	40	-	-		0·0
Skegness	o	o	?	?	-	-		0·0
Aberystwyth	roc	o	43	52	1	-		0·5
Bath	od	do	33	49	-	-		0·0
Leamington Spa	oe	oe	30	48	-	-		0·0
Lowestoft	om	om	34	44	-	-		0·0
Felixstowe	om	om	35	44	-	-		0·0
Southend	o	o	36	44	-	-		0·0
Ilkley	acgbc	bc	37	50	-	-		0·0

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 11th-12th °F.	Temperature. Max. Day. 12th °F.	Rainfall.† Night 17h.-9h. 11th-12th mm.	Rainfall.† Day 9h.-17h. 12 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 12th hr.
Paignton	moz	odpqo	?	51	-	Trace		0·0
Ilfracombe	od	oe	42	53	-	0·1		0·0
Bude	o	o	43	51	-	-		0·0
Penzance	oc	o	46	54	2	-		0·0
Falmouth Observatory	oe	o	46	52	1	-		0·3
Torquay	codo	d	45	51	-	0·2		0·0
Weymouth	o	odo	45	50	-	0·3		0·0
Bournemouth	m	m	43	47	-	0·3		0·0
Portsmouth (S'thsea)	o	o	42	47	-	-		0·0
Worthing	o	o	41	46	-	-		0·0
Brighton	o	o	42	45	-	-		0·0
Eastbourne	o	o	41	46	-	-		0·0
Hastings	o	o	40	45	-	-		0·0
Folkestone	o	o	38	44	-	-		0·0
Tunbridge Wells	o	o	37	44	-	-		0·0
Ramsgate	o	o	35	43	-	-		0·0
Margate	o	o	38	44	-	-		0·0
Deal	mo	o	38	43	-	-		0·0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B22302 Thursday, 14th December 1922.

Observations at 1300 G.M.T. 13th (left) / Observations at 1300 G.M.T. 13th (right)

Stations	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	Upper Form.	Total Amt. 0-10	State of ground	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	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	996.3	0	WSW	8	bc	47	75	6	4000	Cu	3	A.Cu	5	*	1001.3	+6	WSW	6	b	46	75	7	4000	Cu	3	-	3	5
Stornoway	1002.7	+5	W	5	cPR-	48	85	6	4000	Nb	8	-	8	*	1004.7	+3	W	4	bc-	48	75	6	4000	Cu	4	-	4	3
Wick	1002.5	+6	WSW	6	bc	48	75	8	-	-	0	Ci	4	*	1005.6	+3	WSW	4	b	43	92	8	-	-	0	Ci	2	3
Castlebay	1006.9	+2	SW	4	mbc-	51	75	7	2500	St.Cu	5	A.St	6	*	1006.5	0	W	3	o+	50	75	6	1500	St	10	.	10	4
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.2	*	-	0	bc-	45	75	8	4000	Cu	4	.	4	*
Aberdeen	1006.8	+4	SW	3	c	52	55	8	4000	St.Cu	8	-	8	1	1009.6	+2	SSW	1	c+	47	75	6	4000	StCu	8	.	8	0
Malin Head	1009.3	+1	SW	3	o	49	92	7	5700	St.Cu	8	A.St	10	*	1006.8	0	ENE	4	o/r	48	97	7	5700	Nb	5	ASt	10	4
Renfrew	1010.5	+2	WSW	4	o+	51	75	7	7200	St.	10	-	10	2	1009.5	-3	NE	1	or₀r₀	47	97	5	800	St	10	.	10	*
Edinburgh (Inchkeith)	1009.7	+3	SW	4	c+	50	75	7	*	St.Cu	4	A.Cu	7	*	1010.3	+1	SW	1	o	49	85	7	2500	St	10	.	10	1
Leuchars	1008.5	+4	SW	5	o-	51	75	8	4000	St.Cu	9	-	9	5	1009.8	0	-	0	o	48	85	7	4000	StCu	10	.	10	*
Eskdalemuir	1011.0	+2	SW'S	4	o/r	48	85	7	2500	St.Cu	8	A.Cu	9	2	1011.4	-1	SW'S	4	or	48	97	5	800	Nb	10	.	10	*
Tynemouth	1013.5	+4	W	2	c/r	53	92	6	4000	Nb	4	A.Cu	8	*	1013.5	0	WSW	2	o/p	53	92	6	4000	Nb	10	.	10	2
Blacksod Point														*														
Donaghadee	1012.1	-1	SSW	1	opr₀	51	92	8	1500	St.	9	-	9	*	1010.6	-1	SSW	1	o/r	51	97	7	1500	St	10	.	10	1
Birr Castle	1011.8	*	SE	1	or	54	97	6	2500	Nb	9	-	9	*	1003.1	*	S	1	oR			6	800	Nb	10	.	10	*
Holyhead	1015.4	0	SSW	4	odt	51	97	6	225	Nb	10	-	10	2	1013.4	-2	SSW	5	odd₀	51	97	6	225	Nb	10	.	10	4
Liverpool (Bidston)	1015.1	+1	SW	6	c-	55	75	8	2500	CuNb	5	Ci	7	*	1014.8	+1	SSW	6	o	54	85	8	1500	CuNb	10	-	10	6
Chester (Shotwick)	1016.4	+1	SW	5	o	57	75	7	1500	St.	6	A.Cu	9	0	1015.7	0	SW	4	o	54	85	6	2500	St	7	ASt	10	*
Spurn Head	1016.7	+1	SW'W	5	bc	52	85	7	1500	St.	2	Ci	5	*	1017.2	+1	SW	3	b	48	92	7	1500	St	2	-	2	4
Nottingham	1018.4	*	SW	4	o	53	85	7	1500	St.Cu	10	-	10	*	1018.1	*	SW	3	o	52	85	7	2500	StCu	9	-	9	
Cranwell	1019.5	+2	SW'S	5	o	53	85	7	2500	St.Cu	10	-	10	0	1019.1	-1	SSW	4	b-	51	85	6	.	-	0	CiSt	3	
Gorleston	1021.5	0	WSW	4	o	52	85	6	4000	St.Cu	10	-	10	*	1021.6	0	SW'S	3	o	50	85	6	4000	StCu	10	.	10	1
Valencia (Cahirciveen)	1010.0	-3	S	4	o/r	55	92	6	800	St	10	-	10	2	1009.2	0	S'W	4	o/r	54	97	6	800	St	10	-	10	6
Roches Point																												
Pembroke (St. Ann's H.)	1018.2	0	SW	7	o	52	85	7	1500	St.	10	-	10	*	1016.4	-1	SSW	7	o	52	92	7	1500	St	10	-	10	6
Ross-on-Wye	1020.2	-1	SW'W	5	o	53	75	8	2500	Nb	10	-	10	1	1019.8	0	SW	4	od₀	51	85	7	2500	Nb	10	-	10	*
Benson	1022.5	0	SW	4	o	52	86	8	*	StCu	10	-	10	1	1021.5	0	SW	3	o₀	50	85	8	*	St	10	.	10	*
Andover	1023.[illegible]	0	S'W	4	o/r	51	92	8	1500	Nb	8	A.St	10	1	1022.6	0	S	4	odd₀	49	97	7	800	Nb	10	.	10	*
S. Farnborough	1023.7	0	SW	4	mm₀	51	85	6	800	St.Cu	10	-	10	1	1022.4	0	SW	5	mm₀	50	85	6	800	StCu	10	.	10	*
London (Kew Obsy.)	1023.1	-1	SSW	4	o	51	85	6	2500	St.Cu	9	A.St	10	0	1023.1	0	SW	3	o	51	85	6	2500	StCu	10	.	10	*
Croydon	1023.5	-1	SW'S	4	o	49	92	6	800	St.	10	-	10	1	1023.6	+1	SW'S	4	o	48	92	6	800	St	10	.	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.9	0	SW	2	o	46	92	6	4000	St	10	-	10	4
Shoeburyness	1023.7	-3	SW	6	mm₀	49	85	6	4000	St.	10	-	10	*	1023.3	0	SSW	5	bc/m	48	85	7	2500	Cu	4	.	4	*
Grain	1024.5	0	SW	4	o	43	92	6	1500	St.	10	-	10	1	1024.2	+1	SSW	4	c-	48	92	7	1500	St	8	.	8	0
Lympne	1025.3	-1	SW	5	o	45	97	6	225	Nb	10	-	10	-	1024.6	0	SW	4	o	45	92	4	225	St	10	-	10	*
Scilly (St. Mary's)	1020.8	0	S'W	5	o	54	85	7	4000	St.Cu	10	-	10	*	1019.5	-1	S'W	3	o	53	92	7	4000	StCu	10	-	10	5
Falmouth (Pendennis)	1021.5	0	SW	7	o	53	92	7	2500	St.	10	-	10	*	1020.4	0	SW	6	o	52	92	7	2500	St	10	-	10	3
Plymouth (Cattewater)	1022.7	-2	SSW	4	o	52	9[illegible]	8	1500	St.	10	-	10	2	1021.8	0	S	4	o	52	97	8	1500	St	10	.	10	3
Portland Bill	1023.2	-2	SW'S	6	c-	52	85	6	1500	St.Cu	7	-	7	*	1022.4	-1	SW'S	6	o+	51	85	6	450	St	10	.	10	5
Southampton (Calshot)	1024.5	-1	SW	5	o	49	92	6	800	St.	10	-	10	*	1023.7	-1	SW	5	o	49	85	7	2500	StCu	10	-	10	3
Dungeness	1025.3	0	SW	5	o+	47	92	7	1500	St.	10	-	10	*	1025.3	0	SW	5	o	47	97	7	-	-	0	ASt	10	5
Jersey	1026.9	0	S	4	o	49	92	7	2500	StCu	10	-	10	*	1025.6	0	S	4	o	47	92	7	2500	StCu	10	.	10	3

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temperature Max. °F.	Temperature Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
	24 Hours ended 0900 G.M.T. 14th								Yesterday.		To-day.
Kew	om	om	obcm	*	*	41	-	-	0.0	*	*
Croydon {24 hours ended 0700}	om	om	ombm	*	*	37	-	-	0.0	*	*
Greenwich (Royal Obsy.)	o	od	obcbo	51	41	34	-	-	0.0	88	91
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	-	*	53	44	38	-	-	0.0	80	85
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0.0	*	*
Camden Square	o	o	*	52	44	41	-	-	*	*	90
Kensington Palace	od	o	*	51	43	37	-	-	*	85 (8h)	86
Hampstead Observatory	*	*	*	50	42	38	-	-	0.0	*	92

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 13th

	Max.	Time.	Min.	Time.
South Kensington	0.6 / 3.6	18h.12th / 8h.13th	<0.3	0-4h.13th
Kew Observatory	0.5 / 0.6	18h.12th / 7h.13th	<0.3	1-3h.13th

Pole Star Record at Greenwich Obsy.

Exposure from 13th 16h 45m. to 14th 07h 00m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	14.15	4.52	34
δ Ursae Minoris	14.15	4.7	28

CODE FOR STATE OF GROUND
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1600 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 (not on roads from frozen rain or melted snow).

Radio Disturbances (Atmospherics) at Croydon.

Time.	Type.	No. per min.	Stren.	Direc.
13h.	C	5	-	155°
18h.	C	5	-	180°
8h.	C,C₂	6	-	40°
9h.	C,C₄	6	-	40°

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

14th–15th December, 1922

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7 59 / 8 00	11 48 / 11 48	3 36 / 3 36
Greenwich	8 00 / 8 01	11 55 / 11 55	3 49 / 3 49
Wick	8 57 / 8 58	12 7 / 12 7	3 16 / 3 16
Valencia	8 44 / 8 45	12 36 / 12 36	4 27 / 4 27

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000–10000 m.
f fog, " 200–1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers. r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus:—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

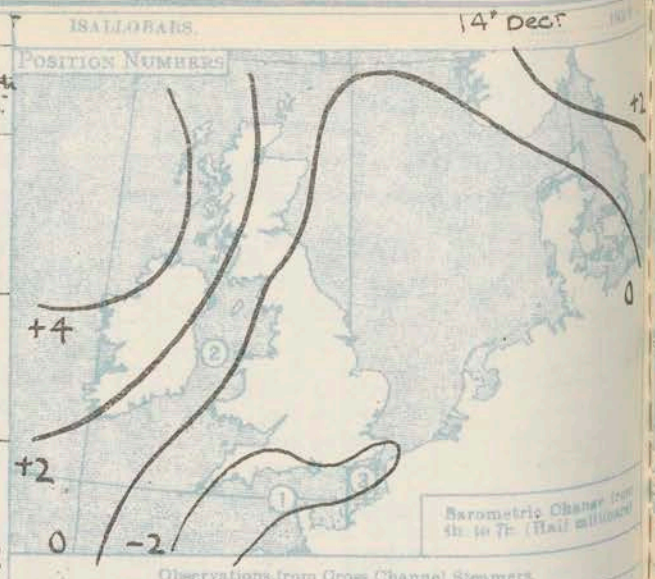
0 = no swell, 1 = mod. swell, 2 = heavy swell } Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell } Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 2.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 13th	13h.-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.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 13th Hours.
Lerwick	cq	cprq	bcq	c	53	41	•	0·1	0·2	1530	0130	0.0
Stornoway	p	c	bbc	cpr	49	41	•	1	4	-	-	0.3
Wick	b.bc	b.bc	oo	oirc	53	42	•	-	0·2	-	0330	•
Castlebay	ocm	cmo	oco	ocp	51	45	•	-	-	-	-	0.0
Nairn	bccbc	cbc	bccir	cirbc	53	39	•	•	1	•	2200	2.1
Aberdeen	bbccy	cycm	oirbo	oirb	55	45	37	-	0·4	-	2200	0.2
Malin Head	o3	coir	copr	bcop	48	46		0·4	0.1	1530	2200	0.0
Renfrew	omrc	omrr	omr	olrm	52	46	44	1	1	40800	<2100	0.0
Edinburgh (Inchkeith)	c	co	rr	c	54	46	43	-	2	-	0930	0.1
Leuchars	oo	oo	o	o	54	41	34	•	0.1	-	2200	0.1
Eskdalemuir	ordm	oirm	oidir	odiro	50	47	46	5	14	40800	<2100	0.3
Tynemouth	omid	op	opcm	bcm	54	52	48	Trace	0.1	1100	<2100	•
Blacksod Point ...							•					•
Donaghadee	cp	cod	cqr	cp	55	50	•	2	1	-	-	•
Birr Castle ...	r.d	oir	orr	orr	55	47	46	4	2	40800	<2100	•
Holyhead	r.d	ddm	drm	orr	52	50	50	0·5	8	-	<2100	0.0
Liverpool (Bidston) ...	c	bco	bcc		55	51	47	-	-	-	-	0.8
Chester (Shotwick) ...	oo	oom	o	om	58	52	49	-	-	-	-	•
Spurn Head	oc	b-bc	bbc	?	52	48		-	-	-	-	0.0
Nottingham	bu	oo	cb	c	53	51	47	-	-	-	-	0.1
Cranwell	oo	ocbc	c	c	53	47	45	-	-	-	-	0.3
Gorleston	oq	oo	oq	ocbq	52	44	41	-	-	-	-	0.1
Valencia (Cahirciveen)	oR	ormo	orp	ordoc	55	47	43	13	3	40800	<2100	0.0
Roches Point							•					•
Pembroke (St. Ann's H.)	cq	oqpd	oqpd	oo	52	50	•	0·2	0.1	40800	<2100	0.0
Ross-on-Wye	oq	dq	do	dcqc	54	49	47	-	-	-	-	0.0
Benson...	o	o	o	o	53	46	45	•	-	-	-	•
Andover	ddd	odd	ddd	oo	52	46	45	Trace	trace	40800	<2100	0.0
S. Farnborough ...	oomid	oommid	o	o	51	44	43	Trace	-	40800	-	0.0
London (Kew Obsy.)...	om	om	oobc	bcom	51	45	41	-	-	-	-	0.0
Croydon	om	om	om	obm	49	42	37	-	-	-	-	0.0
Clacton-on-Sea ...	coq	oq	ogc	cbc	48	44	40	-	-	-	-	0.0
Shoeburyness	oom	omcbc	bc	bc	50	42	40	-	-	-	-	0.2
Grain	oom	omoc	bcb	bb	50	43	37	-	-	-	-	0.0
Lympne ...	ofmd	oo	oo	omm	45	41	38	0.1	-	40800	-	0.0
Scilly (St. Mary's) ...	oq	oo	oq	oo	53	52	•	Trace	-	40800	-	0.4
Falmouth (Pendennis)	oo	o	o	o	53	51	•	-	-	-	-	0.0
Plymouth (Cattewater)	oo	oo	o	o	52	51	49	Trace	-	40800	-	0.0
Portland Bill	oc	co	oo	oo	52	45	•	-	-	-	-	•
Southampton (Calshot)	oo	oo	oo	c	50	44	42	-	-	-	-	0.1
Dungeness	oo	oo	oo	bcq	47	44	•	-	-	-	-	•
Jersey	o	o	o	o	49	42	•	-	-	-	-	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
2	13th 1605	Anglia	SW's	7	om	52	52	7
3	14th 0300	Brighton	SW	5	b	47	48	7

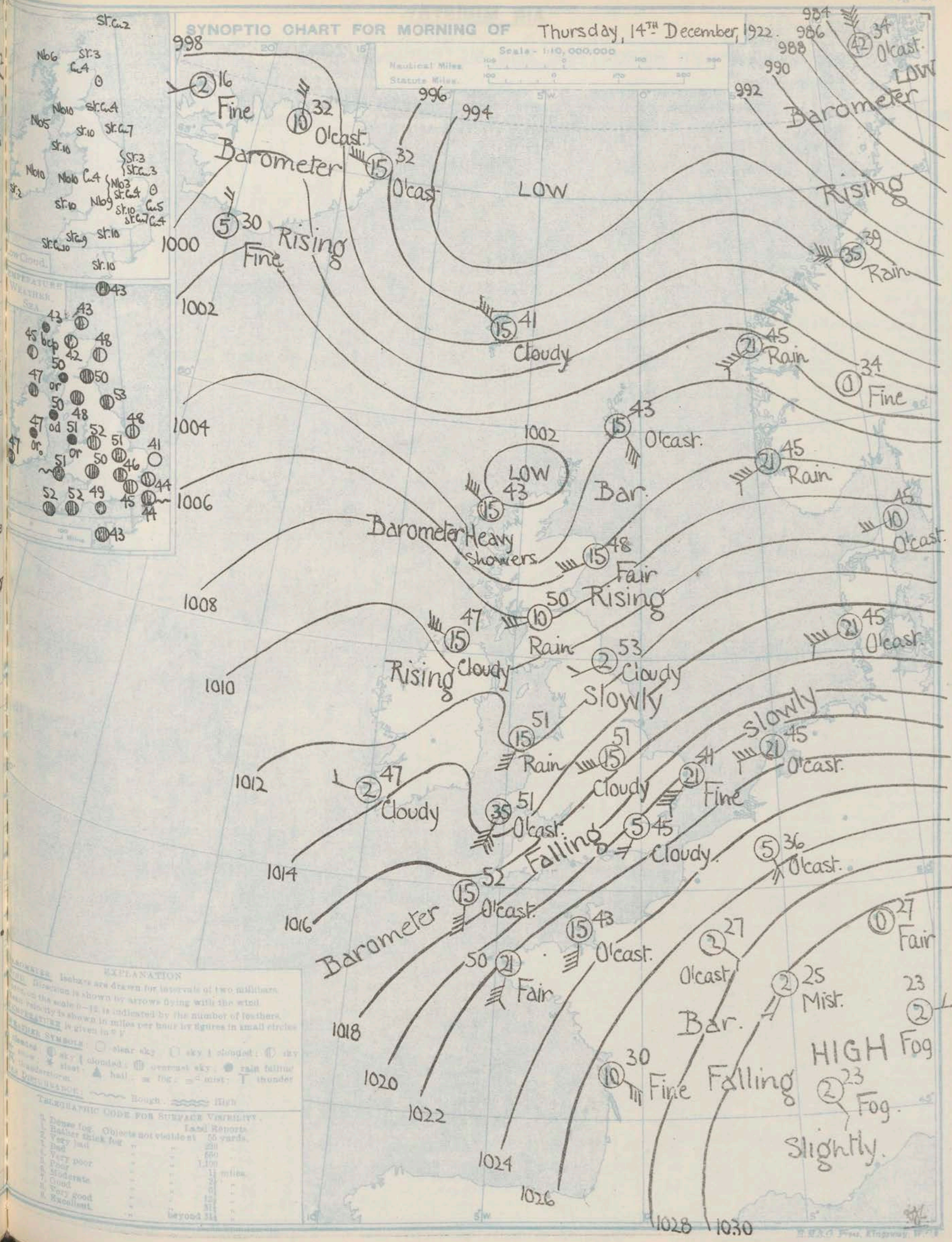
GENERAL INFERENCE.

Depressions crossing the British Isles will maintain changeable unsettled weather, with a variable temperature, in most districts. In the South and Southeast of England rather mild southwesterly winds with much cloud but little rain may be expected for another 24 hours at least.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday, 14th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind southwesterly, moderate or fresh, strong at times; cloudy, slight occasional rain or drizzle; visibility moderate or good; rather mild.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Winds between S. and W., light or moderate fresh at times; changeable, some rain or showers; visibility good; moderate temperature.	Changeable with wind mainly between S. and W.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind variable, mainly from a westerly point, moderate, fresh at times; changeable, some rain or showers; visibility good; moderate to rather low temperature.	---------- South Cone flying.
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 to 10.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 GMT. G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Thursday, 14th December, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
Fine
Barometer
Rising
Fine
O'cast.
O'cast
LOW
Barometer
Rising
Rain
Cloudy
Fine
Rain
O'cast.
LOW
Bar.
Barometer
Heavy
Showers
Fair
Rising
Rain
Cloudy
Rising
Cloudy
Slowly
Rain
Cloudy
Fine
Slowly
O'cast.
Cloudy
O'cast.
Falling
Cloudy
O'cast.
Barometer
O'cast.
Fair
O'cast
Bar.
Mist.
Fine
Falling
HIGH
Fog
Fog.
Slightly.
Fair
Fog
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Force, on the scale 0—12, is indicated by the number of feathers.
Wind velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in ° F.
WEATHER SYMBOLS: clear sky; sky 1 clouded; sky 2 clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: Rough; High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports
0 Dense fog. Objects not visible at 55 yards.
1 Rather thick fog " " 220 "
2 Very bad " " 550 "
3 Bad " " 1,100 "
4 Very poor " " 1 mile.
5 Poor " " 2 "
6 Moderate " " 5 "
7 Good " " 6 "
8 Very good " " 12 "
9 Excellent " " 31 "
Beyond 31 "

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Thursday, 14th December 1922. No. 348.

Observations at 0100 G.M.T. 14th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1004.1	+2	WSW	6	bc+	46	85	7	4000	Cu	4	-	4	•
Stornoway	1004.7	-2	-	0	bc-	•	•	5	•	•	•	•	•	•
Wick	1005.1	-1	SSW	4	0	46	92	8	800	Sr	10	-	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1005.4	+1	W	4	bc/r	51	97	7	5750	Nb	5	-	5	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1007.4	-3	SW	3	o/r	52	92	8	-	Nb	10	-	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1011.1	-2	SW	3	c-	54	85	6	4000	Sr	7	-	7	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1012.9	0	SSW	5	or	52	97	6	450	Nb	10	-	10	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1016.6	0	S'W	5	bc	48	92	8	4000	SrCu	5	-	5	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1018.1	-1	SW'S	5	0	50	85	6	2500	Sr	10	-	10	•
Gorleston	1021.7	0	SW'S	5	0	47	92	6	4000	SrCu	10	-	10	•
Valencia (Cahirciveen)	1011.2	+3	SSW	3	or	50	92	7	-	Sr	10	-	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1015.7	-1	S'W	7	0	52	92	7	1500	Sr	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	49	•	•	•	•	•	•	•	•
Croydon	1022.7	-1	SW'W	4	0	47	92	6	1500	SrCu	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1023.6	-1	SW	5	0	46	92	6	1500	Sr	10	-	10	•
Scilly (St. Mary's)	1018.2	-1	S	5	0	53	92	7	4000	SrCu	10	-	10	•
Falmouth (Pendennis)	1018.6	-2	SW	7	0	52	92	8	4000	SrCu	10	-	10	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1022.4	0	SW	6	0	49	85	6	450	Sr	10	-	10	•
Southampton (Calshot)	1022.4	-1	SW'S	5	0	48	92	8	4000	SrCu	10	-	10	•
Dungeness	1024.7	+1	SW	5	0	47	97	7	1500	Sr	10	-	10	•
Jersey 7h / Guernsey 1h	1023.4	-1	S	5	0	46	97	5	-	-	0	ASr	10	•

Observations at 0700 G.M.T. 14th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1004.0	0	SE	4	0+	43	85	7	4000	SrCu	2	ASr	9	3
Stornoway	1003.3	+3	NW	4	bc/r	43	92	6	4000	Nb	6	-	6	4
Wick	1002.7	-2	SW	3	bc/r	43	97	8	1500	Sr	3	Ci	6	3
Castlebay	1008.1	+5	WNW	3	b	45	75	7	2600	Cu	2	ASr	3	3
Nairn	1003.8	•	W	1	bc/r	42	92	8	4000	Cu	4	CiCu	6	•
Aberdeen	1006.0	+1	SW	4	bc+	48	85	7	-	-	0	ACu	4	0
Malin Head	1009.9	+4	WNW	4	c/r	47	85	8	5700	Nb	5	CiSr	8	4
Renfrew	1008.1	-1	WSW	3	or	50	92	5	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	1007.4	+2	SW	4	o/r	50	85	8	-	SrCu	4	ASr	10	3
Leuchars	1006.9	0	SW	4	o	51	85	8	2500	SrCu	9	ASr	10	•
Eskdalemuir	1009.1	-1	SW	5	o/r	48	92	6	1500	Sr	10	-	10	•
Tynemouth	1010.8	+1	SW	1	c+	53	85	7	4000	SrCu	7	-	7	1
Blacksod Point	1012.0	+1	SW	1	od	50	97	8	1500	Sr	10	-	10	2
Donaghadee	1012.4	•	S	1	or	47	?	6	800	Nb	10	-	10	•
Birr Castle	1011.8	-1	SSW	4	or	51	97	6	450	Nb	10	-	10	4
Holyhead	1013.1	0	SSW	4	c+	52	85	7	1500	Cu	7	-	7	5
Liverpool (Bidston)	1013.6	-1	SW	4	o	55	75	6	1500	SrCu	10	-	10	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1014.8	-2	SW'S	4	bc	48	92	6	1500	Sr	6	-	6	4
Nottingham	1016.2	•	SW	4	c	51	85	7	800	Nb	3	-	3	•
Cranwell	1016.9	0	SW'S	5	b+	48	92	7	2500	SrCu	3	-	3	•
Gorleston	1020.3	-1	SW'S	5	b-	44	97	7	-	-	0	-	0	4
Valencia (Cahirciveen)	1012.8	+2	WNW	1	c	47	85	8	2500	Sr	2	ASr	8	4
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1013.9	-1	S'W	7	o	51	92	7	1500	Sr	10	-	10	6
Ross-on-Wye	1017.6	-1	SSW	4	o	50	85	8	2500	Nb	9	-	9	•
Benson	1019.7	-1	S	4	o	46	92	6	2500	Sr	10	-	10	•
Andover	1020.8	-1	S	4	o	46	97	7	1500	Nb	10	-	10	•
S. Farnborough	1021.1	-1	SW	4	o	44	92	6	2500	Sr	10	-	10	•
London (Kew Obsy.)	1021.3	-1	SSW	2	c+	45	85	6	2500	SrCu	7	-	7	•
Croydon	1021.4	-1	SSW	4	b-	42	85	6	1500	SrCu	1	-	1	•
Clacton-on-Sea	1021.2	-1	SW	4	bc	44	97	7	4000	Cu	5	-	5	3
Shoeburyness	1021.8	-1	W	1	bc+	43	85	7	2500	Cu	5	-	5	3
Grain	1022.2	-2	SSW	5	b-	44	92	7	1500	Sr	2	-	2	•
Lympne	1022.3	-2	SSW	5	o	42	97	6	800	Sr	9	ASr	10	•
Scilly (St. Mary's)	1016.3	-1	S	4	o	52	85	7	4000	SrCu	10	-	10	5
Falmouth (Pendennis)	1017.0	-3	SW	6	o-	52	85	7	4000	SrCu	9	-	9	4
Plymouth (Cattewater)	1018.7	-2	SSE	5	o	51	97	8	1500	Sr	10	-	10	3
Portland Bill	1019.8	-3	SW	6	o	49	85	6	450	Sr	10	-	10	5
Southampton (Calshot)	1021.6	0	SW	5	o	45	97	8	1500	Sr	10	-	10	3
Dungeness	1022.5	-1	SW	5	bc-	44	97	8	1500	Cu	4	-	4	6
Jersey 7h / Guernsey 1h	1022.9	-1	S	4	o	43	85	6	1500	Sr	10	-	10	3

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 12th-13th °F.	Temperature. Max. Day 13th °F.	Rainfall.† Night 17h.-9h. 12th-13th mm.	Rainfall.† Day 9h.-17h. 13th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 13th hr.
Banff	*	*	47	53	1	-		0.0
Montrose								
Llandudno	c	bbcb	48	57	-	-		1.5
Colwyn Bay	c	c	52	54	-	-		2.6
Rhyl	cbc	bcc	47	56	-	-		2.8
Southport	oc	cbcco	50	54	-	-		0.5
Blackpool	oc	o	50	53	-	-		0.1
Harrogate	o	o	44	53	-	-		0.0
Skegness	oc	cocb	44	53	-	-		0.4
Aberystwyth	ooc	o	45	53	-	-		0.0
Bath	o	o	49	54	-	-		0.0
Leamington Spa	o	c	47	53	-	-		0.0
Lowestoft	o	oam	43	51	-	-		0.0
Felixstowe	o	o	42	50	-	-		0.0
Southend	o	o	42	49	-	-		0.0
Ilkley	oc	dc	47	53	-	0.4		0.0

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 12th-13th °F.	Temperature. Max. Day 13th °F.	Rainfall.† Night 17h.-9h. 12th-13th mm.	Rainfall.† Day 9h.-17h. 13th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 13th hr.
Paignton	odpg	bccg	51	55	-	-		0.5
Ilfracombe	oc	oc	51	55	0.2	-		0.0
Bude	o	o	43	55	-	-		0.0
Penzance	oc	oc	51	55	1	-		0.8
Falmouth Observatory	o	o	51	53	1	-		0.0
Torquay	o	o	51	54	0.3	-		0.2
Weymouth	o	o	48	53	0.3	0.1		0.1
Bournemouth	o	o	46	52	0.3	-		0.0
Portsmouth (S'thead)	o	o	51	54	-	-		2.0
Worthing	o	o	45	48	-	-		0.0
Brighton	o	o	45	48	-	-		0.0
Eastbourne	o	o	44	49	-	-		0.0
Hastings	o	o	43	47	-	-		0.0
Folkestone	o	o	38	47	-	-		0.2
Tunbridge Wells	o	o	42	49	-	-		0.0
Ramsgate	o	o	41	46	-	-		0.0
Margate	o	o	39	48	-	-		0.0
Deal	od	oo	41	47	Trace	-		0.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 1. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 22303 FRIDAY, 15TH DECEMBER 1922.

Observations at 1300 G.M.T. 14th

Stations.	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	State of ground.
Lerwick	1003·5	-1	NW	3	bc PR-	40	97	7	4000	CuNb	2	ACu	4	*
Stornoway	1009·2	+6	NW	2	b-	44	85	6	4000	Cu	3	-	3	*
Wick	1007·4	+5	WNW	1	bc	43	92	8	4000	CuNb	3	Ci	5	*
Castlebay	1011·6	+1	WSW	4	b+	43	85	8	2500	Cu	2	ASt	3	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1009·8	+5	WNW	4	0+	46	75	8	4000	StCu	4	ASt	9	1
Malin Head	1012·7	+2	SW	2	bc-	48	85	8	4000	Cu	1	Ci	4	*
Renfrew	1012·5	+4	W	1	0-	47	85	7	1500	St	8	Ci	9	2
Edinburgh (Inchkeith)	1011·2	+5	W	4	0-	47	75	7	-	-	0	ACu	9	*
Leuchars	1010·7	+3	W	3	0	47	75	8	7200	StCu	6	ASt	10	0
Eskdalemuir	1012·5	+2	WNW	3	0	45	85	7	1500	StCu	1	ASt	10	2
Tynemouth	1011·8	+2	W	1	0pr	51	92	5	4000	St	10	-	10	*
Blacksod Point														*
Donaghadee	1013·9	+2	NW	1	0	47	85	8	-	-	0	ASt	10	*
Birr Castle	1014·6	*	S	1	0/r	47	?	8	4000	StCu	9	-	9	*
Holyhead	1013·8	+1	NW	3	0r	48	92	7	800	Nb	10	-	10	2
Liverpool (Bidston)	1013·6	+1	W	4	0pr	49	97	5	800	Nb	10	-	10	*
Chester (Shotwick)	1013·5	-1	SW'S	4	0	56	75	6	1500	StCu	9	ASt	10	0
Spurn Head	1015·3	-1	SSW	5	bc	50	85	6	1500	St	5	-	5	*
Nottingham	1015·6	*	SW	4	0	53	85	7	800	StCu	8	ACu	9	*
Cranwell	1017·5	-2	SSW	5	b-	51	85	7	1500	Cu	1	-	1	0
Gorleston	1020·2	0	SW	4	c+	45	85	6	4000	CuNb	8	-	8	*
Valencia (Cahirciveen)	1015·0	+1	-	0	c	48	92	8	2500	StCu	2	ASt	7	2
Roches Point														*
Pembroke (St. Ann's H.)	1013·7	-2	SW	7	0r	51	92	7	1500	Nb	10	-	10	*
Ross-on-Wye	1016·7	-2	SSW	5	0	52	85	7	2500	St	10	-	10	0
Benson	1018·1	-3	SSW	5	bc-	50	85	8	*	Cu	5	-	5	1
Andover	1020·1	-1	S	4	0	48	92	7	1500	StCu	10	-	10	0
S. Farnborough	1020·2	-2	SW	3	mmo	47	85	6	800	St	10	-	10	0
London (Kew Obsy.)	1020·2	-3	SW	3	0	49	85	5	2500	StCu	10	-	10	2
Croydon	1020·6	-3	SW'S	4	0	45	92	6	450	St	10	-	10	1
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sheeburyness	1021·0	-2	SW	3	mmo	46	85	6	4000	StCu	7	-	7	*
Grain	1021·4	-1	SSW	3	c-	46	85	6	1500	St	8	-	8	0
Lympne	1022·1	-3	SW	4	0	43	92	6	800	St	10	-	10	1
Scilly (St. Mary's)	1015·1	0	S	5	0	53	92	6	800	St	10	-	10	*
Falmouth (Pendennis)	1016·4	-2	SW	6	0	53	85	7	4000	StCu	9	-	9	*
Plymouth (Cattewater)	1016·1	-2	S	5	0	52	97	7	1500	St	10	-	10	0
Portland Bill	1019·1	-3	SSW	6	0	51	85	7	-	-	-	-	-	*
Southampton (Calshot)	1020·3	-1	SSW	4	0	48	92	7	1500	ACu	10	-	10	0
Dungeness	1022·2	+1	SSW	4	0	45	92	7	1500	St	10	-	10	*
Jersey	1022·1	0	SSW	4	0	45	92	7	2500	StCu	10	-	10	*

Observations at 1800 G.M.T. 14th

Stations.	Barom. at M.S.L. in.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1005·4	+3	W	4	bcpr	43	85	7	4000	CuNb	4	-	4	3
Stornoway	1011·5	+2	-	0	b	40	92	7	-	-	0	-	0	0
Wick	1010·0	+3	SW	2	b-	38	92	8	5700	Cu	1	-	1	0
Castlebay	1013·9	+4	SW	3	b-	47	85	6	2500	Cu	1	-	1	3
Nairn	1012·5	*	-	0	b-	37	85	8	4000	Cu	3	-	3	*
Aberdeen	1013·0	+4	WS	2	b-	40	85	6	4000	StCu	1	ACu	2	0
Malin Head	1014·6	+2	SW	2	bc	44	92	8	4000	Cu	2	CiCu	4	?
Renfrew	1015·3	+4	W	1	b-	39	92	6	-	-	0	-	0	*
Edinburgh (Inchkeith)	1014·2	+4	WSW	2	b-	44	85	7	-	St	2	-	2	2
Leuchars	1014·1	+4	W	1	bc-	37	92	7	-	-	0	ASt	4	*
Eskdalemuir	1015·2	+3	-	0	bc-	40	75	6	4000	StCu	6	-	6	*
Tynemouth	1013·9	+3	NW	1	0	47	92	6	4000	StCu	10	=	10	0
Blacksod Point														
Donaghadee	1016·0	+3	-	0	bc-	42	92	8	-	-	0	ACu	4	0
Birr Castle	1016·4	*	S	1	bc-	40	?	7	4000	Cu	2	CiCu	5	*
Holyhead	1015·0	+1	N'E	3	0-	48	97	8	1500	StCu	9	-	9	1
Liverpool (Bidston)	1015·6	+2	W'S	1	odd	46	97	7	1500	Nb	10	-	10	2
Chester (Shotwick)	1015·4	+2	NNW	1	0/r	47	97	5	1500	St	10	-	10	*
Spurn Head	1015·3	0	S	5	c	47	92	7	2500	StCu	7	-	7	4
Nottingham	1015·4	*	SW	3	0	51	85	7	1500	Nb	10	-	10	*
Cranwell	1016·3	0	SSW	4	bcpr	49	85	7	2500	Nb	4	-	4	*
Gorleston	1019·9	0	SW'S	4	0	45	92	6	4000	St	10	-	10	1
Valencia (Cahirciveen)	1016·8	+3	E	1	b-	42	92	8	-	-	0	ASt	2	4
Roches Point														
Pembroke (St. Ann's H.)	1014·4	+2	NNE	4	0r	47	92	8	1500	Nb	10	-	10	6
Ross-on-Wye	1016·2	+1	SW	4	0r	51	85	7	2500	Nb	10	-	10	*
Benson	1018·3	0	SSW	5	0r	47	85	8	4000	Cu	4	-	4	*
Andover	1019·3	0	S	4	0	48	97	7	1500	St	10	-	10	*
S. Farnborough	1019·5	-1	SSW	5	mmo	47	85	6	450	St	10	-	10	*
London (Kew Obsy.)	1019·7	0	SSW	3	0	47	85	5	5700	StCu	10	-	10	*
Croydon	1020·3	0	SSW	4	0/r	48	97	6	450	St	10	-	10	*
Clacton-on-Sea	1020·1	0	S	4	0	43	97	6	4000	St	10	-	10	0
Sheeburyness	1020·4	0	SW	6	mmo	43	85	6	2500	StCu	10	-	10	*
Grain	1020·9	+1	SSW	4	0	43	97	6	800	St	10	-	10	0
Lympne	1021·5	0	SW	4	FFo	41	97	1	450	St	10	-	10	*
Scilly (St. Mary's)	1014·4	0	S	3	0	52	97	7	4000	StCu	10	-	10	6
Falmouth (Pendennis)	1015·7	0	SW	6	0	52	85	6	4000	StCu	10	-	10	4
Plymouth (Cattewater)	1017·3	-1	S	5	0	52	92	8	1500	St	10	-	10	4
Portland Bill	1019·1	0	SSW	6	b	50	85	7	-	-	0	CiCu	3	5
Southampton (Calshot)	1020·0	0	SSW	4	0	47	92	7	1500	St	10	-	10	0
Dungeness	1021·3	-1	SW	4	0	44	97	7	1500	St	10	-	10	4
Jersey	1020·9	-1	S	4	0	45	92	7	2500	StCu	10	-	10	3

LONDON OBSERVATIONS

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 15th								YESTERDAY.	TO-DAY.	
Kew	cmom	00	omcm	*	*	38	-	-	0.0	*	*
Croydon (24 hours ended 0700)	omdo	omdd	ombcd	*	*	38	tr	-	0.0	*	*
Greenwich (Royal Obsy.)	0	0d	obcm	47	39	31	-	-	0.0	93	98
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*	48	42	35	-	-	0.0	86	92
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0.0	*	*
Camden Square			*	49	40	37	-	-	*	*	87
Kensington Palace	0	0	*	48	42	33	-	-	*	89 (18h)	96
Hampstead Observatory	*	*	*	46	41	31	-	-	0.0	*	94

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 14th

	Max.	Time.	Min.	Time.
South Kensington	0.6	13h 30m	<0.3	14h 0-6h
	0.6	14h 9h		
Kew Observatory	0.5	17h (13th)	<0.3	3h-4h (14th)
	0.5	10h (14th)		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 14th 16h 45m to 15th 07h 00m

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.15	0.14	2
δ Ursae Minoris	14.15	0.0	-

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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 added snow)

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
16h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

15th & 16th Dec. 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.0	11.48	3.36
	8.1	11.49	3.36
Greenwich	8.1	11.56	3.49
	8.2	11.56	3.49
Wick	8.58	12.7	3.16
	9.0	12.8	3.15
Valencia	8.45	12.36	4.27
	8.46	12.37	4.27

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
! lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
rofo = continuous light rain.

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

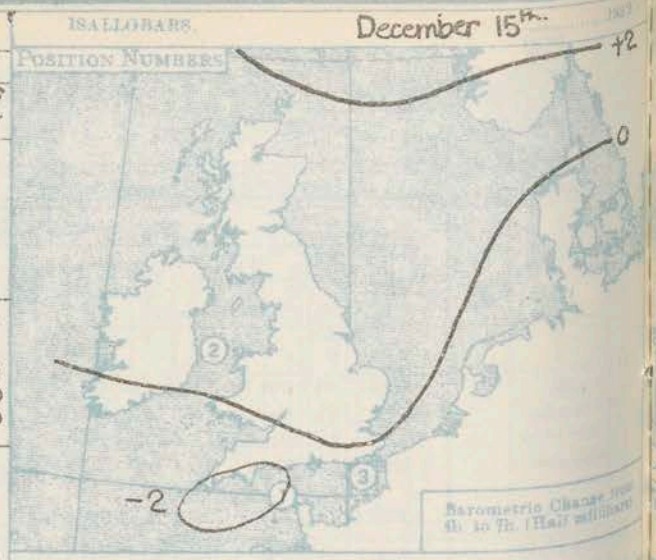
SEA DISTURBANCE.

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.

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 5.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 14h.	13h.-18h. 14h.	18h. 14h. to 1h. 15h.	1h.-7h. 15h.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 14th Hours.
Lerwick	cpr	cq pr	bcp	bc	46	36	•	5	2	0900	<2100	0.8
Stornoway	p	b or bc	p	bcpr	46	38	•	0.5	2	-	-	2.0
Wick	cp.bc	b or bc	b.bc	opr.	44	36	•	Trace	trace	0900	0330	•
Castlebay	bcb	b o p b	b	bopbc	49	45	•	Trace	0.6	-	-	2.5
Nairn	c b	c	bcxcw	cdg	45	35	•	-	0.3	-	0430	1.3
Aberdeen	bcmc	cbm	b	box	49	35	24	-	-	-	-	0.2
Malin Head	cobc	b	bcc	bcc	48	39	•	-	-	-	-	2.6
Renfrew	ormo	cbcb m	bmx	bcffx	51	28	20	2	-	<0800	-	0.3
Edinburgh (Inchkeith)	o	c	m	bc	50	38	35	-	-	-	-	0.0
Leuchars		c	bmx		51	31	20	-	-	-	-	0.0
Eskdalemuir	oido	o bc	bcb	bbx	48	25	21	2	-	<0800	-	0.0
Tynemouth	omp.	om	bbcm	bbcm	54	36	31	0.4	-	0900	-	•
Blacksod Point ...							•					•
Donaghadee	o	c	bm	b	50	37	•	1	-	0900	-	•
Birr Castle ...	y.y.c	co bc	mcffo	offo	48	29	28	0.1	-	<0800	-	•
Holyhead	orrR.	r. oo	cbc.b	cbcco	51	43	41	12	-	<0800	-	0.0
Liverpool (Bidston) ...	cop	r ord	o d		54	41	33	4	1	1230	<2100	0.2
Chester (Shotwick) ...	oom	orr r.	or.r.m	oom	57	39	33	6	0.4	1230	<2100	•
Spurn Head	bbc	c	ofmd	c	58	42	•	-	0.3	-	2200	0.6
Nottingham	c	p.	dr	r.r.	53	45	44	Trace	2	1730	<2100	0.7
Cranwell	cobc	b or bc	r-d	d prod	52	45	43	Trace	1	1730	<2100	2.0
Gorleston	bbcc	oo	oo	oo	47	44	43	-	-	-	-	2.7
Valencia (Cahirciveen)	c	cbcb	bbw	bwbco	49	36	31	-	-	-	-	1.4
Roches Point							•					•
Pembroke (St. Ann's H.)	oqpr	o pr	r-d	opr	52	46	•	8	8	<0800	<2100	0.0
Ross-on-Wye	d.oc	cqod id	ido	cbc	53	47	43	Trace	0.2	1630	<2100	1.2
Benson...	obc	bc	co	o	51	45	43	-	-	-	-	•
Andover	od.o	oo	oo	ocom	49	40	33	Trace	-	1730	-	0.0
S. Farnborough ...	id.om	oo	om	ozm	48	39	30	Trace	-	0900	-	0.0
London (Kew Obsy.)...	cmom	oo	omoc	ocm	48	44	38	-	-	-	-	0.0
Croydon	omd.o	omd.bc	om	ombcc	46	42	38	Trace	-	1100	-	0.0
Clacton-on-Sea ..	o g m		ogm	ogm	45	43	40	-	-	-	-	1.5
Shoeburyness	bccm	cmom	om	om	46	42	42	-	-	-	-	1.0
Grain	bocm	cbom	oo	oo	47	43	41	-	-	-	-	3.5
Lympne	o	omf	ofefmd	odd.m	44	40	39	Trace	0.1	-	2200	0.8
Scilly (St. Mary's)	omq.	omrq	oir	orqc	53	50	•	3	3	<0800	<2100	0.0
Falmouth (Pendennis)	o	om	ocp	cp	53	50	•	-	0.2	-	<2100	0.2
Plymouth (Cattewater)	o	po	o	oo	52	49	48	Trace	-	1530	-	0.0
Portland Bill	ocbc	bbc	bcb	bbc	52	45	•	-	-	-	-	•
Southampton (Calshot)	o	oo	oo	c	50	42	39	-	-	-	-	1.5
Dungeness	c	opd.o	oo	c	47	44	•	Trace	-	1630	-	•
Jersey	o	o	o	ob	47	40	•	-	-	-	-	0.0



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Pressure
2	14th 1000	Anglia	WNW	4	od	50	51	6
1	14th 1300	Ibex	SW	5	c	53	52	7
3	15 0300	Brighton	WSW	2	b	46	47	8

GENERAL INFERENCE.

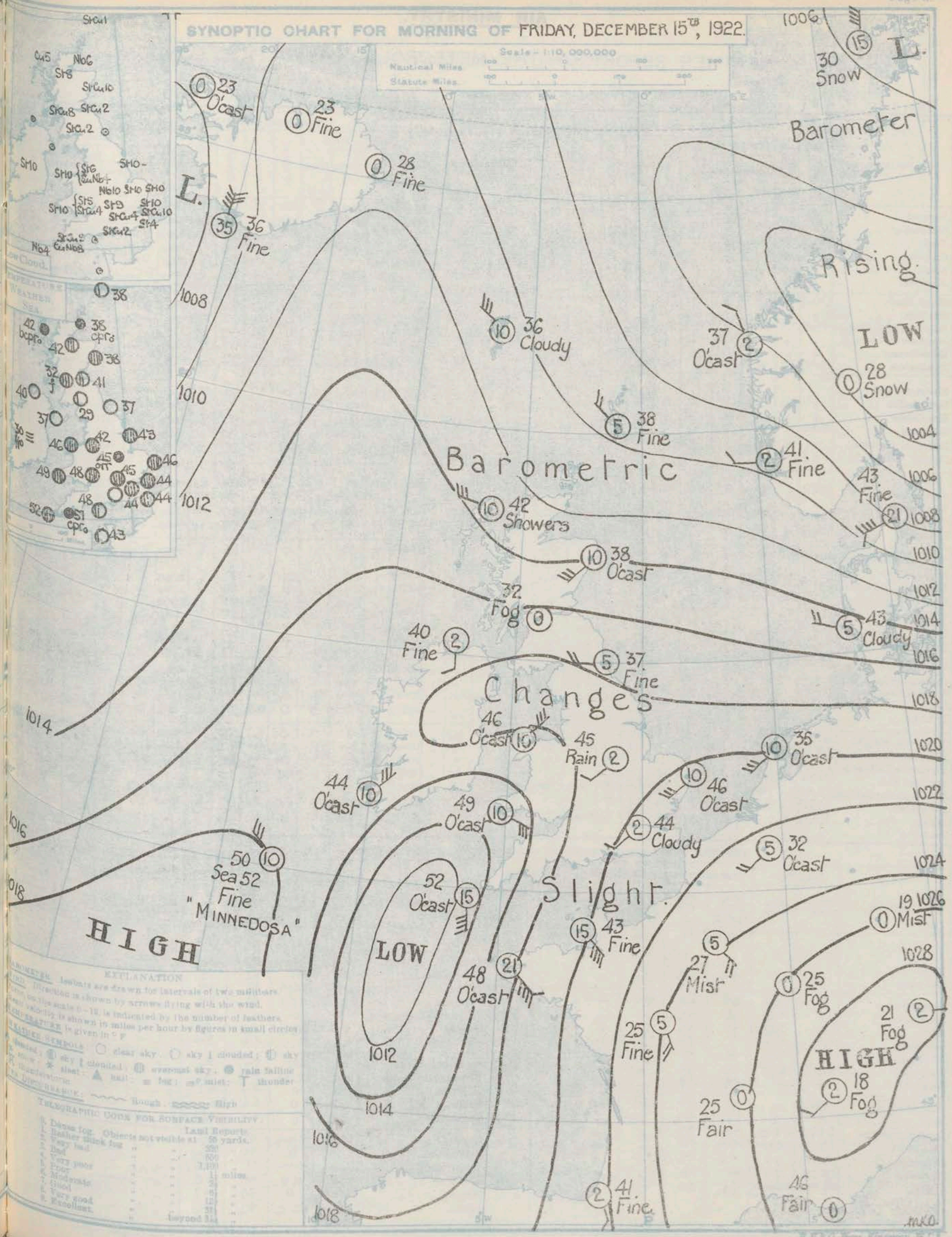
A wedge of high pressure lying over the British Isles will cause quiet weather temporarily with frost in places at night and some inland mist or fog. Further depressions will probably cause an early return to unsettled conditions in the North and Northwest.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Friday, 15th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light southerly to indefinite winds; mainly fair; mist or fog in places inland at night; rather colder, frost locally at night.	Unsettled in the N and NW.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Light indefinite or westerly winds; variable cloud; mist or fog inland; rather cold, frost in places at night.	
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind westerly to southwesterly, light or moderate; variable cloud, visibility good; moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 - 13.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0940 GMT.

† For Code see opposite page.

G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF FRIDAY, DECEMBER 15TH, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometer
Rising
LOW
Barometric
Changes
Slight.
HIGH
LOW
HIGH
L.
L.
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
30 Snow
23 O'cast
23 Fine
28 Fine
36 Fine
36 Cloudy
37 O'cast
28 Snow
38 Fine
41 Fine
43 Fine
42 Showers
38 O'cast
32 Fog
43 Cloudy
40 Fine
37 Fine
46 O'cast
45 Rain
35 O'cast
44 O'cast
46 O'cast
49 O'cast
44 Cloudy
32 O'cast
50 Sea 52 Fine "MINNEDOSA"
52 O'cast
43 Fine
19 Mist
27 Mist
25 Fog
48 O'cast
25 Fine
21 Fog
18 Fog
25 Fair
41 Fine
46 Fair
MKO.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Friday 15th December 1922. No. 349

Observations at 0100 G.M.T. 15

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1009.0	+3	WNW	3	bcPR	39	85	7	4000	Nb	6	-	6	•
Stornoway	1013.1	+2	W	2	pr.	•	•	4	•	•	•	•	•	•
Wick	1011.4	0	SW	2	b	37	92	8	4000	Cu	2	-	2	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1016.7	0	S	2	b	43	92	8	4000	Cu	2	-	2	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1016.4	+2	WSW	2	mmb	41	92	6	-	Sr	1	-	1	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1017.2	+2	W	2	b	39	85	6	-	-	0	-	0	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1018.0	+1	NE'E	3	b	47	92	8	-	-	0	-	0	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1017.0	+1	WNW	2	o/f	45	97	5	450	Sr	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1017.7	+1	N'W	3	orr	47	97	5	1500	Nb	10	-	10	•
Gorleston	1019.2	0	SW	3	o	45	92	6	4000	Sr	10	-	10	•
Valencia (Cahirciveen)	1017.8	+1	S	3	b	44	92	7	-	Sr	2	-	2	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1016.2	0	NE	3	orr	47	97	8	1500	Nb	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	47	•	•	•	•	•	•	•	•
Croydon	1020.4	0	SSW	3	o	45	92	6	450	Sr	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1020.9	0	SW	3	odd	41	97	5	225	Nb	10	-	10	•
Scilly (St. Mary's) ...	1013.5	0	S	3	orr	51	92	7	2500	Nb	10	-	10	•
Falmouth (Pendennis)	1016.1	0	SW	5	c-	53	85	7	4000	Sr	8	-	8	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1018.8	0	SSW	5	b-	48	85	7	-	-	0	-	0	•
Southampton (Calshot)	1019.9	0	SW	4	o	46	92	8	1500	Sr	10	-	10	•
Dungeness	1021.3	0	WSW	3	o	44	97	7	-	-	0	A.Sr	10	•
Jersey (7h) ... ... Guernsey (1h)	1020.6	0	S	4	c	43	97	6	4000	Sr	7	-	7	•

Observations at 0700 G.M.T. 15

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1009.8	+2	NW	2	b+	38	85	7	7200	SrCu	1	A.Sr	3	1
Stornoway	1012.9	0	WNW	3	bcpr	42	92	6	4000	Cu	5	-	5	3
Wick	1010.9	0	WNW	2	cpr.	38	97	8	2500	Nb	6	A.Sr	8	3
Castlebay	1015.1	+1	NW	3	bc/r	45	65	7	2500	Cu	4	-	4	3
Nairn	1013.3	•	-	0	c+	42	85	8	1500	Sr	8	-	8	•
Aberdeen	1014.4	-1	SW	3	o	38	85	8	4000	SrCu	10	-	10	0
Malin Head	1017.1	0	S	1	b	40	92	8	-	-	0	A.Cu	1	4
Renfrew	1017.3	0	-	0	ffo	32	97	3	5700	Sr.Cu	8	-	8	•
Edinburgh (Inchkeith)	1015.7	0	WSW	2	bc+	41	92	7	-	SrCu	2	Cu.Sr	5	2
Leuchars	1015.3	-1	SW	2	b	34	97	6	-	-	0	A.Cu	1	•
Eskdalemuir	1019.2	0	-	0	b	29	97	8	2500	SrCu	2	-	2	•
Tynemouth	1017.6	0	W	2	b	37	92	6	-	-	0	-	0	0
Blacksod Point ...	1018.1	0	WNW	1	b-	37	92	8	-	-	0	-	0	0
Donaghadee	1018.0	•	NNE	1	ffo	30	?	2	<150	Sr	10	-	10	•
Birr Castle	1017.8	0	NE'N	3	o	46	92	8	4000	Sr	10	-	10	2
Holyhead	1018.0	0	NW'W	1	o/r	42	92	6	1500	Sr	10	-	10	1
Liverpool (Bidston) ...	1018.3	0	-	0	o	42	97	5	1500	Sr	10	-	10	•
Chester (Shotwick) ...														
Spurn Head	1018.4	+1	-	0	o	43	97	6	1500	Sr	10	-	10	4
Nottingham	1018.1	•	SW'W	1	orr	45	97	4	1500	Nb	10	-	10	•
Cranwell	1018.7	+1	WNW	1	odd	45	97	4	800	Sr	10	-	10	1
Gorleston	1020.0	0	SW	3	o	46	92	6	4000	Sr	10	-	10	•
Valencia (Cahirciveen)	1016.9	-1	NE	3	o	44	85	8	4000	SrCu	9	-	9	3
Roches Point	1015.5	-1	ESE	3	o/r	49	92	8	2500	Sr	10	-	10	4
Pembroke (St. Ann's H.)	1017.9	+1	SSW	2	o	48	85	7	2500	Sr	9	-	9	•
Ross-on-Wye	1019.2	0	SSW	2	o	45	92	6	1500	Sr	9	-	9	•
Benson...	1019.6	0	E	2	o-	41	97	6	800	Sr	9	-	9	•
Andover	1020.1	0	S	1	mmo	40	92	4	-	-	0	Cu.Sr	10	•
S. Farnborough ...	1020.4	+1	SW	1	c	44	92	6	2500	SrCu	4	A.Sr	7	•
London (Kew Obsy.) ...	1020.3	0	SSW	2	c	42	97	6	800	Sr	8	-	8	•
Croydon	1020.0	0	SW	2	o	44	97	5	4000	Sr	10	-	10	0
Clacton-on-Sea ...	1020.7	0	WSW	1	mmo	44	85	5	1500	SrCu	10	-	10	•
Shoeburyness	1020.8	0	SSW	2	o	44	97	6	1500	Sr	10	-	10	0
Grain	1021.2	0	SSW	3	o	42	97	5	800	Sr	9	A.Sr	10	•
Lympne														
Scilly (St. Mary's) ...	1012.8	0	S	4	o	52	85	7	4000	Nb	4	A.Sr	9	6
Falmouth (Pendennis)	1014.8	-2	SW	5	cpr.	51	92	7	4000	Cu.Nb	8	-	8	4
Plymouth (Cattewater)	1017.1	0	SE	3	o-	49	85	8	4000	SrCu	9	-	9	2
Portland Bill	1018.9	-2	S	5	bc+	48	85	7	-	-	0	Cu.Cu	4	5
Southampton (Calshot)	1019.9	0	E	3	c-	42	97	8	4000	SrCu	2	A.Sr	7	0
Dungeness	1021.2	-1	WSW	3	bc+	44	97	8	1500	Sr	4	-	4	3
Jersey (7h) ... ... Guernsey (1h)	1019.9	0	SE	4	b	43	85	7	-	-	0	A.Cu	2	3

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 13-14 °F.	Temperature. Max. Day. 14 °F.	Rainfall.† Night 17h.-9h. 13-14 mm.	Rainfall.† Day 9h.-17h. 14 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 14 hr.
Banff								
Montrose	-	-	44	49	0.3	-		0.1
Llandudno	r	rod	50	55	0.0	8		0.0
Colwyn Bay ...	cr	cd	52	53	-	12		0.0
Rhyl...	o	op	50	53	2	8		0.0
Southport	or	ro	?	53	-	4		0.0
Blackpool	od	o	51	51	1	3		0.0
Harrogate	o	op	50	52	-	0.2		0.0
Skegness	o	oc	45	49	-	-		0.7
Aberystwyth ...	ooc	o	51	54	-	6		0.0
Bath	o	o	49	53	-	-		0.0
Leamington Spa ...	ocb	cbo	48	52	-	-		0.3
Lowestoft	cbb	bcom	44	47	-	-		3.4
Felixstowe	bom	o	42	45	-	-		1.9
Southend	bcco	o	41	46	-	-		0.7
Ilkley	cfmo	cddmg	50	53	-	1		0.0
Paignton	og	og	50	53	-	-		0.6
Ilfracombe	or	or	52	55	1	1		0.0
Bude	ouo	uogo	52	55	-	-		0.0
Penzance	obcc	opr	52	55	-	1		0.5
Falmouth Observatory	o	o	52	54	-	-		0.3
Torquay	co	bco	50	54	-	-		1.1
Weymouth	cb	bcc	48	54	-	-		3.9
Bournemouth ...	bc	bc	46	50	-	-		1.0
Portsmouth (S'thsea)	oc	bco	44	50	-	-		1.9
Worthing	o	o	44	47	-	-		0.0
Brighton	o	o	46	47	-	-		0.0
Eastbourne	co	o	43	46	-	-		0.0
Hastings	bcco	ofm	42	45	-	-		0.0
Folkestone	o	o	40	46	-	-		0.0
Tunbridge Wells ...	o	om	41	44	-	-		0.5
Ramsgate	cbcb	bco	40	45	-	-		1.9
Margate	bcb	o	40	47	-	-		1.8
Deal	oc	bcc	42	46	-	-		0.6

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22304 SATURDAY. 16TH DECEMBER 1922. Page 1.

Stations	1300 G.M.T. 15th: 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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground	1800 G.M.T. 15th: 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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	1012·5	+2	NNW	1	bjp	37	85	7	4000	Cu	3	-	3	*	1013·6	+2	NNW	1	bpr₀	37	85	7	4000	CuNb	3	·	3	0
Stornoway	1015·3	+2	WNW	3	bc+	43	75	6	4000	Cu	6	-	6	*	1015·8	+1	NW	3	o	33	92	6	800	St	10	·	10	2
Wick	1012·9	+2	WNW	2	bcpr₀	41	92	8	2500	CuNb	6	-	6	*	1015·2	+3	WNW	2	b/r	36	97	8	2500	CuNb	2	·	2	0
Castlebay	1016·7	+2	-	0	c	46	75	8	2500	St.Cu	7	-	7	*	1016·3	0	·	0	c-	44	75	6	1500	St	8	·	8	0
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016·1	*	-	0	b-	35	85	8	-	·	0	AC	3	*
Aberdeen	1014·9	0	WNW	3	bc	44	75	7	4000	St.Cu	4	-	4	1	1016·0	+2	WNW	2	b+	38	85	6	1500	St	1	·	1	0
Malin Head	1017·1	+0	W	2	c+	45	92	8	4000	Nb	6	-	6	*	1016·1	-1	S	1	c	42	97	7	5700	StCu	6	AC	7	2
Renfrew	1017·1	0	W	3	ojp	45	92	6	1500	Nb	9	Ci	10	2	1016·8	0	-	0	b-	37	97	6	-	-	0	·	6	*
Edinburgh (Inchkeith)	1016·3	0	WSW	3	mbc	45	92	6	x	St.	2	A.Cu	6	*	1016·1	+1	WSW	1	mb·	42	97	6	*	StCu	1	·	1	1
Leuchars	1015·4	0	SW	2	mb	43	92	6	-	-	0	Ci.St	2	5	1016·0	+1	-	0	b-	34	92	6	·	-	0	·	0	*
Eskdalemuir	1018·3	0	SSE	2	ffo	34	92	1	∠450	St.	10	-	10	2	1017·9	-1	-	0	mo-	34	97	4	800	St	10	·	10	*
Tynemouth	1018·0	0	W	1	b	45	92	5	-	-	0	Ci.Cu	2	*	1016·9	0	W	2	b	37	97	6	-	-	0	-	0	0
Blacksod Point														*														
Donaghadee	1018·0	-1	WSW	1	bcf	45	85	7	-	-	0	A.St	4	*	1017·8	-1	WNW	1	mb	38	92	4	·	·	0	·	0	0
Birr Castle	1017·3	*	NNE	1	ffo	34	-	2	∠150	St.	10	-	10	*	1014·6	*	N	1	oRR	40		5	450	Nb	10	·	10	*
Holyhead	1017·0	-2	ENE	4	or₀	46	85	8	2500	Nb	4	A.St	10	2	1014·9	-2	NE'E	4	o	46	97	5	1500	St	10	·	10	2
Liverpool (Bidston)	1017·7	-1	NW'W	1	fo-	44	92	2	-	-	0	-	0	*	1016·1	-1	ESE	3	o/r	45	97	6	1500	St	10	·	10	3
Chester (Shotwick)	1018·1	-2	ESE	2	o	45	92	4	1500	St.Cu	10	-	10	2	1016·3	-1	ESE	2	fo+	45	92	3	1500	St	10	·	10	*
Spurn Head	1018·3	0	-	0	mmo	44	92	5	450	St	10	-	10	*	1017·1	-1	W	1	ffo	44	92	3	450	St	10	·	10	2
Nottingham	1018·3	*	NE	1	fo+	45	97	2	1500	St.	10	-	10	*	1017·3	*	S	2	Fo+	44	97	0	225	St	10	·	10	*
Cranwell	1019·0	-1	-	0	ffo	44	97	3	225	St.	10	-	10	1	1018·2	0	·	0	fo+	42	97	2	∠150	St	10	·	10	
Gorleston	1019·8	0	SW'W	3	mo+	47	92	5	4000	St.	10	-	10	*	1019·3	0	SW	1	mmb	42	92	5	-	-	0	·	0	0
Valencia (Cahirciveen)														*	1015·7	0	N'E	2	o-	44	85	8	2500	St	6	ASt	9	4
Roches Point														*														
Pembroke (St. Ann's H.)	1015·6	-1	SE'S	5	o	49	85	8	2500	St.Cu	10	-	10	*	1013·2	-2	ESE	6	ojp	48	75	8	1500	Nb	10	-	10	5
Ross-on-Wye	1018·1	-2	-	0	o	48	85	6	-	-	0	A.Cu	9	0	1017·1	-1	SE	2	o	45	85	6	·	·	0	ASt	10	*
Benson	1019·2	+2	SSW	2	bc	49	75	7	*	·	0	Ci.St	7	1	1017·5	-2	S	2	b	43	92	7	·	·	0	Ci	3	*
Andover	1018·9	-1	ESE	2	c-	50	85	6	-	-	0	Ci	7	0	1018·1	-2	SSE	3	o	44	97	7	2500	St	10	·	10	*
S. Farnborough	1019·6	-1	S'W	2	mmo	48	75	5	-	-	0	Ci	9	0	1019·1	-1	S'E	2	mo-	43	97	6	·	·	0	Ci.St	10	*
London (Kew Obsy.)	1019·3	-3	SW	1	bc⊕	48	85	5	-	-	0	Ci	5	5	1018·5	-1	SW	1	c	43	92	5	·	·	0	Ci	8	*
Croydon	1019·7	-2	SSW	3	c	49	75	6	-	-	0	Ci	8	1	1018·6	-1	S	2	c-	43	92	6	5700	StCu	4	ASt	8	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·0	-1	SSE	2	b	43	97	6	·	·	0	Ci	3	0
Shoeburyness	1020·0	-1	SW	2	mmbc	47	75	6	-	St	2	Ci	5	*	1019·1	-1	·	0	mmb	39	85	6	·	·	0	·	0	*
Grain	1020·1	-2	SSW	1	c	50	75	6	-	-	0	Ci.St	8	1	1019·2	-1	·	0	bc-	41	92	6	·	·	0	Ci.St	4	0
Lympne	1020·9	-2	S'W	3	o	45	85	6	800	St.	5	Ci.St	10	1	1019·4	0	S	2	b	42	85	6	·	-	0	Ci.St	3	*
Scilly (St. Mary's)	1012·4	-2	SSE	5	o	52	85	8	4000	St.Cu	9	-	9	*	1013·2	+1	W	7	o	48	75	7	4000	StCu	10	·	10	6
Falmouth (Pendennis)	1015·1	-2	SSE	6	o+	52	85	6	4000	St.Cu	10	-	10	*	1013·9	-2	WSW	6	o	49	75	7	4000	StCu	10	·	10	4
Plymouth (Cattewater)	1016·8	-2	SE	2	o	49	92	8	800	St.	10	-	10	0	1015·3	-1	SW	5	ojp	50	85	8	1500	St	10	-	10	4
Portland Bill	1018·1	-1	S	5	o+	49	85	7	450	St.	10	-	10	*	1016·6	-2	S	5	o	50	85	7	450	St	10	-	10	5
Southampton (Calshot)	1019·5	-2	SE	4	c/f	48	85	7	-	-	0	Ci	8	-	1018·4	-1	S	3	o+	45	85	8	1500	StCu	10	·	10	0
Dungeness	1020·9	-2	SSW	3	c+	48	85	7	-	-	0	Ci.Cu	7	*	1019·2	-2	SSW	3	b-	45	97	7	-	-	0	Ci.Cu	3	3
Jersey	1019·1	-1	SSE	4	o	44	92	6	2500	StCu	10	·	10	*	1018·1	0	SSE	4	o	44	92	6	2500	StCu	10	·	10	3

London Observations	Weather: Morning	Weather: Afternoon	Weather: Night	Temperature: Max. °F.	Temperature: Min. °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)
	24 Hours ended 0900 G.M.T. 16th										
Kew	cfwbcm	bcwc	omd	*	*	32	-	0·1	2·0	*	*
Croydon (24 hours ended 0700)	cbcmz	cozm	comdd	*	*	38	-	0·1	3·0	*	*
Greenwich (Royal Obsy.)	bcm	obcw	bcobor	50	40	31	-	0·3	2·0	84	86
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	51	42	36	0·2		0·6	75	80
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	*	*	*
Camden Square	m	o	*	59	42	37	-	0·3	*	*	84
Kensington Palace	cbc	o	*	51	44	35	-	0·3	*	84 (18)	86
Hampstead Observatory	*	*	*	48	41	32	-	Tr	0·9	*	88

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1600 G.M.T. 15th

South Kensington: Max.	Time.	Min.	Time.
0·6	18h. 14th	∠0·3	0-6h. 15th
1·0	10h. 15th		

Kew Observatory: Max.	Time.	Min.	Time.
0·5	18h. 14th	∠0·3	23h. 14th
1·0	11h. 15th		-4h. 15th

Pole Star Record at Greenwich Obsy.

Exposure from 15th 16 h. 45 m. to 16th 07 h. 00 m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	14.15	4.28	31
δ Ursae Minoris	14.15	3 11	22

Code for State of Ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	110°
18h.	C	5	-	165°
01h.	C	3	-	160°
07h.	C	3	-	160°

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

16th & 17th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.1	11.49	3.36
	8.2	11.49	3.36
Greenwich	8.2	11.56	3.49
	8.3	11.56	3.49
Wick	9.0	12.8	3.15
	9.1	12.8	3.15
Valencia	8.46	12.37	4.27
	8.47	12.37	4.27

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, 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 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

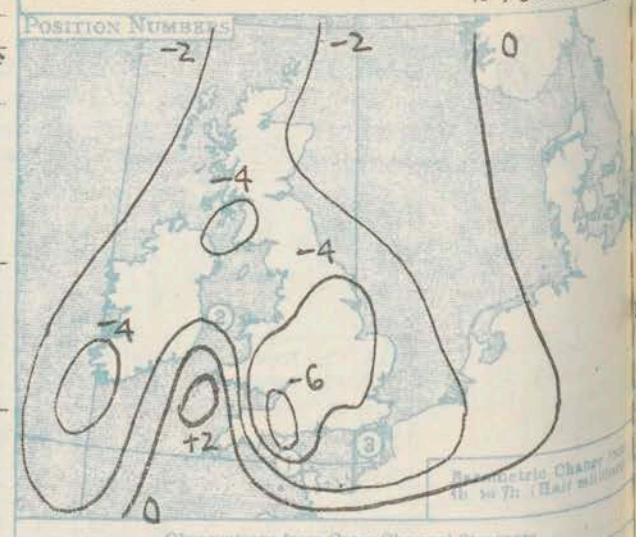
[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 15°	13h.-18h. 15°	18h. 15° to 1h. 16°	1h.-7h. 16°	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 15th Hours.
Lerwick	bc	bcp	bc	b	38	35	•	0·2	0·3	1630	<2100	2·0
Stornoway	c	c	b-bc	bcp	44	28	•	-	4	-	-	2·4
Wick	ocP	cp bc	b,bc	b-bc	42	28	•	3	-	<0800	-	•
Castlebay	bcopc	copbo	obop	pbcop	46	40	•	0·3	3	-	-	2·4
Nairn	cbc	bcbx	bx	bx	42	26	•	0·2	-	-	-	1·0
Aberdeen	obmfb	bcbmx	bx	bx	44	30	22	-	-	-	-	2·9
Malin Head	p.bc	com	com	cozbc	46	38	•	Trace	-	<0800	-	3·7
Renfrew	cxompr	opbcbmx		bcofx	48	27	20	0·5	-	0900	-	2·4
Edinburgh(Inchkeith)	cm	z	f	oo	46	39	41	•	Trace	-	0630	2·6
Leuchars	bfx	f-m	f	f	45	27	14	-	-	-	-	3·7
Eskdalemuir	oxofc	ofem	ofeom	om	34	29	28	-	0·1	-	-	0·0
Tynemouth	bm	bm	bffm	ifr	41	33	29	-	1	-	0430	•
Blacksod Point ...							•					•
Donaghadee	bcm	pm	o	r	48	42	•	-	1	-	0130	•
Birr Castle ...	offo	rRr	iRco	oiRc	40	37	36	9	20	1530	<2100	•
Holyhead	opir	ofom	omo	fe oo	46	44	39	0·2	0·1	0900	<2100	0·0
Liverpool (Bidston) ...	dof	f-m	f		46	42	39	0·3	-	<0800	-	0·0
Chester (Shotwick) ...	ofom	omof	oofF	oofF	45	43	36	0·1	-	<0800	-	•
Spurn Head	F	F	F	ffld	44	41	•	-	0·1	-	0230	0·0
Nottingham	f.m	f-m	Fo	mir	45	40	39	0·1	1	<0800	0230	0·0
Cranwell	dofe	ofe	ofe	oFe	45	40	39	Trace	0·2	<0800	-	0·0
Gorleston	om	ocbm	bbcme	amom	48	38	30	-	1	-	0430	0·0
Valencia (Cahirciveen)	oco	oro	b-bc	bcwo	45	35	31	3	Trace	1530	-	0·0
Roches Point							•					•
Pembroke (St.Ann's H.)	oo	ogpo	ogpr	ogpr	50	45	•	0·1	2	1730	<2100	0·0
Ross-on-Wye	bcoco	om	omid	ardg	48	44	40	-	3	-	2200	0·1
Benson...	cc	bc	cor	o	50	42	34	-	0·2	-	2200	•
Andover	omem	co	oo	ood	50	42	36	-	0·1	-	<2100	4·5
S. Farnborough ...	ocFo	oorem	od	od	49	46	38	-	Trace	-	<2100	3·1
London (Kew Obsy.)...	cfubcm	bcwc	omdom	amom	49	42	32	-	0·1	-	2200	2·0
Croydon	cbom3	cojm	comdm	omdd	50	42	38	-	0·1	-	-	3·0
Clacton-on-Sea ...	ogem	cbcme	bcme	bccga	47	41	31	-	0·2	-	-	2·3
Shoeburyness	omcbcm	bcmbm	bmxbcc	o	49	36	25	-	-	-	-	3·8
Grain	c	zbcm	bcmomx	bmomx	50	40	30	-	0·1	-	-	4·3
Lympne	ocomm	omocbc bm	bbccomf	oFm	46	38	35	Trace	0·1	-	-	3·2
Scilly (St. Mary's) ...	cqp.	oqp.	bcopq	bcq	53	47	•	Trace	0·4	0900	0130	0·0
Falmouth (Pendennis)	cpom	op	ocoq	oqcb	52	45	•	Trace	-	<0800	-	0·0
Plymouth(Cattewater)	oo	of	opo	bbc	50	47	45	0·4	Trace	1530	<2100	0·0
Portland Bill	bco	oo	oo	oo	51	45	•	-	-	-	-	•
Southampton(Calshot)	cm	oo	c	oo	49	45	34	-	-	-	-	3·8
Dungeness	c	c	oo	pr	48	44	•	-	0·2	-	2400	•
Jersey	bo	o	c	opo	45	42	•	-	Trace	-	0330	0·0

ISALLOBARS. 16th December

POSITION NUMBERS



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea
2	15th 1000	Anglia	ENE	4	p	47	51
3	16th 0300		SW	4	b	49	46

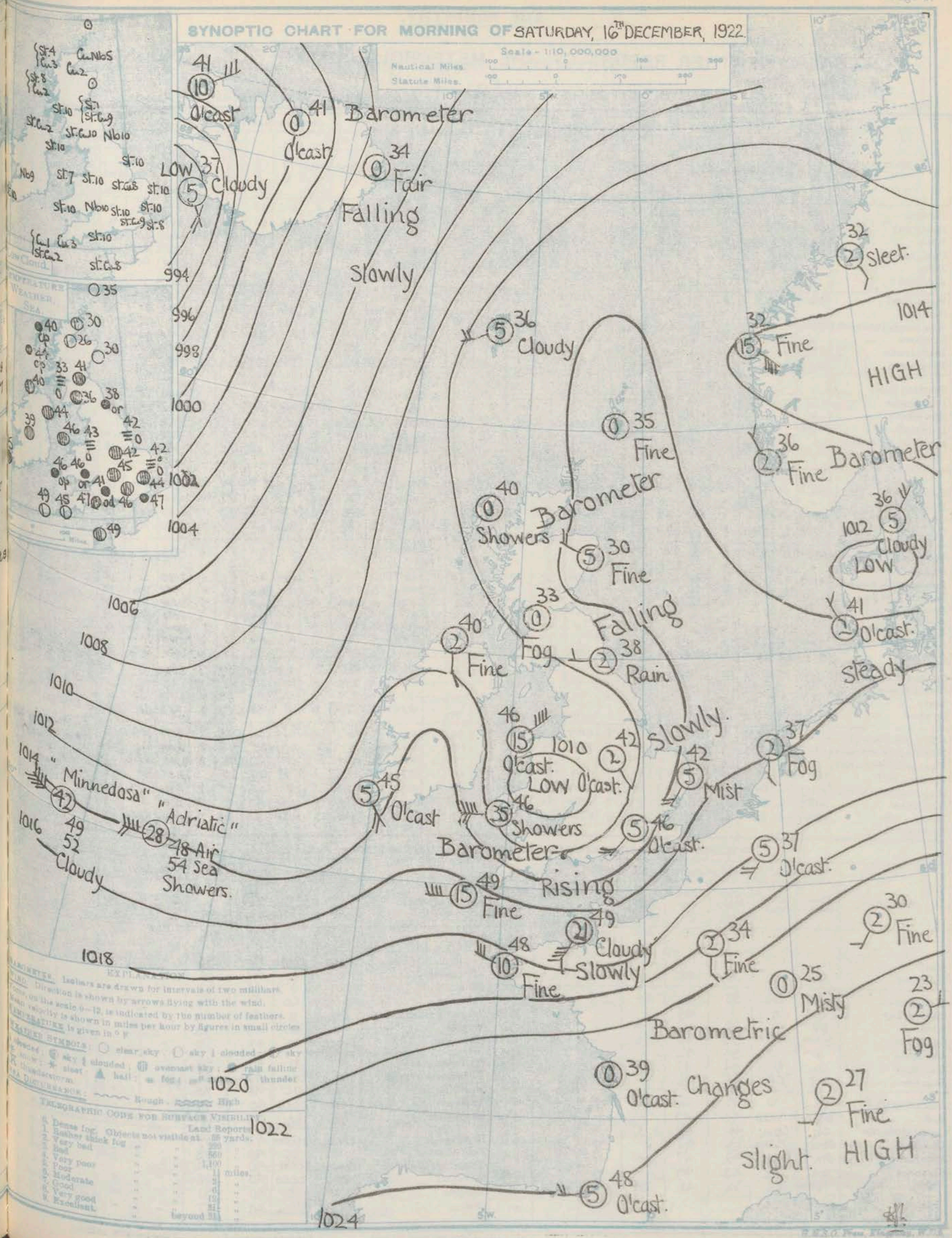
GENERAL INFERENCE.

A depression is centred near Iceland with secondaries to the South, one of which is advancing slowly across England. Unsettled weather is likely in all districts with some bright periods in the South where the westerly wind will blow strongly at times.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday, 16th December. 1922.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind SW to W, strong at times; cloudy with some rain or drizzle but occasional bright periods; visibility moderate or good; rather cold.	With-held.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind light or moderate in force, direction indefinite; unsettled, some rain or drizzle; visibility mainly moderate or good, but mist or fog at times inland; rather cold.	
11. E. Scotland 12. S.W. Scotland	Light or moderate Easterly winds; mainly fair; some mist; rather cold, slight frost at night.	
13. Isle of Man 14. N.&N.W.Scotland 15. Hebrides	Same as 7 - 10.	
16. Orkneys and Shetlands	Same as 11.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 7 - 10.	

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

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF SATURDAY, 16TH DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Barometer
Falling
Slowly
LOW
Cloudy
Fair
HIGH
Fine
Sleet.
Showers
Fog
Rain
Mist
Misty
Steady
Slowly
Rising
Cloudy
Slowly
Baromeric
Changes
slight.
"Minnedosa"
"Adriatic"
Air
Sea
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Saturday 16th December.....1922. No. 350...

Observations at 0100 G.M.T. 16th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1016·0	+2	NW	2	b-	36	85	7	-	-	0	a.St	3	•
Stornoway	1016·2	0	-	0	b	•	•	5	•	•	•	•	•	•
Wick	1016·4	+1	W	1	bc	35	92	8	5750	St-Cu	4	-	4	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1014·9	-1	S	1	c	40	97	7	2500	St-Cu	7	-	7	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1016·4	+1	NE	1	o/f	40	92	7	-	St	2	a.St	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1016·6	0	W	1	b	34	92	4	-	-	0	a Cu	2	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1012·6		ESE	2	0	46	97	8	2500	St	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1016·3	0	-	0	FFO	44	97	0	Surface	St	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1017·6	-1	-	0	FFO	40	97	0	Surface	St	10	-	10	•
Gorleston	1018·4	-1	SW	1	ffb	39	97	5	-	-	0	-	0	•
Valencia (Cahirciveen)	1017·1	0	E'S'	3	b	43	97	7	-	?	?	?	?	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1010·3	-1	S	6	o/r	48	92	7	2500	St	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	1017·2	-2	SSW	3	odd.	44	97	4	800	St	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1017·8	-2	SW	3	Fo+	49	97	0	Surface	St	10	-	10	•
Scilly (St. Mary's) ...	1016·1	+3	W'N	7	o/r.	49	75	7	4000	Cu Nb	10	-	10	•
Falmouth (Pendennis)	1015·3	+2	SW	7	0	48	85	7	4000	Cu	10	-	10	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1016·6	0	W'S	6	0	47	85	7	450	St	10	-	10	•
Southampton (Calshot)	1016·7	-1	SW'W	3	0	47	85	8	2500	St	10	-	10	•
Dungeness	1018·2	-2	SW	4	odd.	47	97	7	1500	Nb	10	-	10	•
Jersey (7h)	1018·7	+1	SW	4	c	48	92	8	5750	St Cu	7	-	7	•
Guernsey (1h)														

Observations at 0700 G.M.T. 16

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1014·8	-1	-	0	b	35	97	7	-	-	0	-	0	0
Stornoway	1012·7	-2	-	0	cpr.	40	85	6	800	St	7	-	7	1
Wick	1013·9	-2	-	0	bc	30	97	8	4000	Cu Nb	5	-	5	0
Castlebay	1012·1	+2	SE	2	o/r.	44	85	6	1500	St	10	-	10	1
Nairn	1013·9	•	-	0	b	26	85	8	4000	Cu	2	-	2	•
Aberdeen	1015·2	-1	WNW	2	b	30	97	6	-	-	0	-	0	0
Malin Head	1011·6	-3	S	1	b-	40	92	8	5750	St Cu	2	a Cu	3	2
Renfrew	1013·9	-4	-	0	ffo	33	97	3	1500	St	10	-	10	•
Edinburgh (Inchkeith)	1013·7	-3	E	2	0	41	85	8	-	St Cu	10	-	10	•
Leuchars	1013·9	-2	-	0	0	33	97	5	4000	St Cu	8	a St	10	•
Eskdalemuir	1013·4	-3	NE	3	0	36	97	6	1500	St Cu	10	-	16	•
Tynemouth	1012·8	-3	W	1	odd.	38	97	2	2500	Nb	10	-	10	0
Blacksod Point ...	1014·0	-3	SE	1	0	44	92	8	1500	St	10	-	10	1
Donaghadee	1014·1	•	NW	1	o/r	39	-	6	2500	Nb	9	-	9	•
Birr Castle	1010·1	-2	NE'N	4	0-	46	97	7	2500	St	7	a Cu	9	3
Holyhead	1010·5	-3	ESE	2	fo-	43	97	2	800	St	10	-	10	3
Liverpool (Bidston) ...	1010·2	-4	-	0	ffo	44	92	3	1500	St	10	-	10	•
Chester (Shotwick) ...														
Spurn Head	1011·8	-5	SE	2	ffo	47	97	2	450	St	10	-	10	3
Nottingham	1010·8	•	SE	1	0	42	97	6	1500	St Cu	8	a Cu	9	•
Cranwell	1012·4	-5	SSE	2	OFF	42	97	1	4150	St	10	-	10	•
Gorleston	1015·6	-2	SSW	2	Fmmo	42	97	5	2500	St	10	-	10	0
Valencia (Cahirciveen)	1012·6	-5	SE	2	0	45	85	8	4000	St	10	-	10	3
Roches Point														
Pembroke (St. Ann's H.)	1010·7	+3	W	3	o/r.	46	92	7	2500	St	10	-	10	6
Ross-on-Wye	1009·4	-5	SW	6	o/r	46	92	8	1500	Nb	10	-	10	•
Benson...	1012·1	-4	SSW	4	0	45	85	7	4000	St	10	-	10	•
Andover	1013·0	-3	S'W	4	0	46	92	7	2500	St Cu	10	-	10	•
S. Farnborough ...	1013·1	-4	SW	4	odd	46	85	7	1500	St Cu	10	-	10	•
London (Kew Obsy.)...	1013·3	-4	SW	2	0	46	85	6	2500	St Cu	9	-	9	•
Croydon	1014·1	-4	SW'S	4	o/r	45	85	6	1500	St Cu	8	a St	10	•
Clacton-on-Sea ...	1014·7	-2	SSE	3	0+	44	97	7	2500	St	10	-	10	0
Shoeburyness	1014·6	-1	S	3	0	43	85	7	-	-	0	a. St	9	•
Grain	1015·2	-4	S	3	0	44	92	6	2500	St	10	-	10	•
Lympne	1015·4	-2	SSW	4	0	44	97	5	450	St	8	a. St	10	•
Scilly (St. Mary's) ...	1017·2	+1	W	4	b/r	49	75	8	4000	St Cu	3	-	3	6
Falmouth (Pendennis)	1016·4	+2	W	4	b-	45	75	8	4000	Cu	8	-	8	0
Plymouth (Cattewater)	1015·2	0	W'N	6	c-	47	75	8	2500	Cu Nb	8	-	8	3
Portland Bill	1012·4	-6	W'S	6	0	47	85	7	450	St	10	-	10	5
Southampton (Calshot)	1014·2	-3	W SW	5	0-	48	85	8	800	St	10	-	10	3
Dungeness	1016·0	-1	SW	4	cpr.	47	97	7	2500	St	8	-	8	4
Jersey (7h)	1017·8	0	SW	5	c/r	49	85	7	4000	St Cu	8	-	8	4
Guernsey (1h)														

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 14-15 °F.	Temperature. Max. Day. 15 °F.	Rainfall.† Night 17h.-9h. 14-15 mm.	Rainfall.† Day 9h.-17h. 15 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 15 hr.
Banff								
Montrose	*	*	33	44	-	-		4·0
Llandudno	oro	am	38	46	0.4	0.4		0·0
Colwyn Bay ...	c	o	?	45	-	-		0·0
Rhyl...	po	o	39	45	0·3	-		0·0
Southport	faem	aem	36	43	0·2	-		0·0
Blackpool	o	o	33	42	-	-		0·0
Harrogate	co	oc	34	47	0·1	-		0·0
Skegness	omf	afc	44	46	1	0·1		0·0
Aberystwyth ...	ro	o	45	51	?	-		0·0
Bath	bbc	bcco	44	47	-	-		0·9
Leamington Spa ...	cb	cbm	41	49	3	-		0·5
Lowestoft	omo	ocbm	43	47	-	-		0·0
Felixstowe	om	bcm	42	47	-	-		1·4
Southend	be	bc	42	49	-	-		1·9
Ilkley	d. xm	bc	32	42	0.4	-		0·0

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 14-15 °F	Temperature. Max. Day. 15 °F	Rainfall.† Night 17h.-9h. 14-15 mm	Rainfall.† Day 9h.-17h. 15 mm	Sunshine. hr.	Sunshine. Sunrise to Sunset. 15 hr.
Paignton	bcco	opo	46	50	-	Trace		0·0
Ilfracombe	o	o	47	51	7	-		0·0
Bude	o	o	48	52	0·1	-		0·0
Penzance	oop	co	51	52	2	Trace		0·0
Falmouth Observatory	om	o	50	52	1	-		0·1
Torquay	o	o	48	50	-	-		0·8
Weymouth	b.bcc	co	43	50	-	-		2·7
Bournemouth ...	b	b	44	49	-	-		3·4
Portsmouth (S'thsea)	fb	bcm	42	50	-	-		4·1
Worthing	mbc	oc	41	50	-	-		3·4
Brighton	feb	bbco	40	49	-	-		4·4
Eastbourne	bc	bcc	39	48	-	-		3·8
Hastings	cmbc	bccom	42	49	-	-		3·8
Folkestone	c	bc	40	48	-	-		3·8
Tunbridge Wells ...	bcmbc	bccb	40	50	-	-		1·0
Ramsgate	obc	bcco	40	48	-	-		0·0
Margate	o	o	40	51	-	-		2·5
Deal	bcb	bbcm	40	47	-	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22305 SUNDAY, 17TH DECEMBER 1922.

STATIONS.	Observations at 1300 G.M.T. 16													Observations at 1800 G.M.T. 16												
	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	State of ground.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1014.5	0	-	0	b+	36	85	7	4000	Cu Nb	1	Ci Cu	2	*	1012.7	-2	N	1	bc-	36	92	7	7200	StCu	4	A.St	6	0
Stornoway	1009.5	-3	S	3	c+	42	85	6	800	St	8	-	8	*	1006.9	-3	SSE	3	o+	42	85	6	450	St	10	-	10	2
Wick	1012.0	-2	NE	3	o+	40	85	8	5700	Cu	3	Ci	7	*	1009.1	-3	SSE	5	bc	41	92	8	4000	Cu	6	-	6	0
Castlebay	1008.5	-3	ESE	5	c p r	46	75	7	1500	St	8	-	8	*	1005.5	-2	ESE	4	o	45	75	6	1500	St	10	-	10	4
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.4	*	-	0	bc+	33	85	8	4000	Cu	4	-	4	*
Aberdeen	1013.6	-2	WNW	1	o r s	32	97	3	1500	Nb	10	-	10	6	1010.6	-2	W	2	o r s	33	97	4	1500	Nb	10	-	10	0
Malin Head	1008.4	-5	SE	1	c ⊕	42	92	7	4000	Cu	3	Ci St	7	*	1004.6	-6	SE	4	o+	41	92	7	5700	Nb	7	A.Cu	10	4
Renfrew	1011.2	-4	ENE	2	o	39	92	5	4000	St	9	A.St	10	2	1008.2	-4	ENE	3	o	39	92	5	2500	StCu	10	-	10	*
Edinburgh (Inchkeith)	1011.2	-3	NNE	3	o	40	92	8	-	Cu	2	A.St	10	*	1008.7	-2	NE	1	o	41	85	9	-	StCu	10	-	10	1
Leuchars	1011.8	-3	-	0	o r	37	97	5	800	Nb	10	-	10	1	1009.0	-4	E	2	o/r	41	85	7	2500	StCu	8	A.St	10	*
Eskdalemuir	1011.1	-2	NE	3	o d d	37	92	6	1500	Nb	10	-	10	2	1008.7	-3	NE	2	o r r	36	97	6	1500	Nb	10	-	10	*
Tynemouth	1010.9	-2	E	1	o r r	41	92	5	4000	Nb	10	-	10	*	1009.2	-2	SE	2	o/r	42	92	6	4000	Nb	10	-	10	2
Blacksod Point														*														
Donaghadee	1011.3	-4	SE	2	c-	43	85	8	2500	Cu	5	A.Cu	7	*	1007.5	-5	E	3	o d+	41	97	8	1500	St	10	-	10	2
Birr Castle	1010.2	*	E	1	o+	39	?	6	2500	StCu	? 9	-	9	*	1005.8	*	N	1	o R R	39	?	5	800	Nb	10	-	10	*
Holyhead	1009.5	-3	NE'E	2	c-	45	92	6	2500	St	2	Ci St	7	2	1006.4	-6	S	3	o r	45	97	6	800	Nb	10	-	10	2
Liverpool (Bidston)	1009.3	-1	E'S	1	f f o	43	97	2	225	St	10	-	10	*	1007.3	-2	SW	1	o+	42	97	3	450	St	10	-	10	2
Chester (Shotwick)	1009.8	-0	-	0	f f o	44	97	2	800	St	10	-	10	1	1008.0	-2	-	0	o d d	43	97	3	1500	Nb	10	-	10	*
Spurn Head	1007.5	-4	SE	1	f f o	45	92	2	450	St	10	-	10	*	1007.2	0	W	3	o/f	44	92	5	?	?	?	?	?	3
Nottingham	1008.3	*	N	2	o r	44	92	4	1500	Nb	10	-	10	*	1008.7	*	W	1	o	43	92	5	1500	Nb	10	-	10	*
Cranwell	1008.3	-3	N	1	o/r	43	97	5	450	St	10	-	10	2	1009.6	+2	NW'N	2	f f o	41	97	3	800	St	10	-	10	*
Gorleston	1010.7	-3	SW	4	c-	47	85	6	4000	StCu	8	-	8	*	1009.1	-1	W'N	3	o r	44	92	6	4000	Nb	10	-	10	1
Valencia (Cahirciveen)	1008.9	-2	WSW	3	o r	47	95	6	800	St	10	-	10	2	1008.6	+1	NNW	5	c/h	45	75	8	2500	St	8	-	8	4
Roches Point														*														
Pembroke (St. Ann's H.)	1011.9	-1	W	5	o-	47	75	8	4000	St	10	-	10	*	1008.2	-4	W	5	o	49	75	8	2500	St	10	-	10	5
Ross-on-Wye	1010.6	+1	SW	3	c p	47	85	8	2500	Nb	7	Ci	8	2	1010.0	-2	SW	2	o r r	44	92	7	2500	Nb	10	-	10	*
Benson	1010.4	-1	WSW	3	o	47	85	7	-	StCu	9	-	9	1	1011.4	0	WSW	3	o	43	85	7	-	St	10	-	10	*
Andover	1012.4	0	SW'W	5	o d d	45	92	7	1500	Nb	8	A.St	10	1	1011.9	⊕	S	3	o	44	97	7	2500	StCu	10	-	10	*
S. Farnborough	1011.9	-2	WSW	3	o d	46	75	7	1500	StCu	10	-	10	0	1012.0	0	WSW	2	b-	43	85	7	-	StCu	2	-	2	*
London (Kew Obsy.)	1011.1	-3	WSW	4	o	47	75	7	2500	StCu	10	-	10	1	1011.5	0	W	3	b-	45	75	8	-	-	0	A.Cu	1	*
Croydon	1012.1	-2	WSW	5	o/r	46	75	7	1500	StCu	10	-	10	1	1012.4	0	SW'W	4	bc-	45	75	7	-	-	0	Ci St	4	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.5	+2	W	4	o	46	85	5	4000	St	10	-	10	1
Shoeburyness	1011.2	-5	SSW	6	o+	47	65	7	2500	StCu	6	A.St	10	*	1011.2	+1	SW	3	bc/r	46	75	6	2500	StCu	6	-	6	*
Grain	1011.5	-3	SW	5	o	47	75	7	1500	St	10	-	10	1	1012.1	+2	SW	4	o-	46	75	8	1500	St	10	-	10	3
Lympne	1012.7	-4	WSW	6	o/r	45	85	8	1500	St	10	-	10	1	1023.1	+1	W	4	b	42	85	8	4000	StCu	3	-	3	*
Scilly (St. Mary's)	1014.9	-2	SSW	4	o	50	85	8	4000	StCu	10	-	10	*	1012.1	-1	WSW	4	bc	50	85	8	4000	StCu	6	-	6	5
Falmouth (Pendennis)	1015.2	-2	W	5	c+	50	75	8	5700	Cu	4	Ci	8	*	1011.4	-6	W	3	bc/r	47	97	7	4000	Cu Nb	5	-	5	1
Plymouth (Cattewater)	1014.7	-3	WSW	4	c+	50	85	8	2500	StCu	7	A.Cu	8	0	1011.6	-4	-	0	c/r	47	97	8	2500	St	7	-	7	0
Portland Bill	1015.0	+5	W'S	6	bc-	51	75	7	-	-	0	A.Cu	5	*	1012.9	-3	WSW	5	o+	50	85	7	450	St	10	-	10	4
Southampton (Calshot)	1013.3	-1	W	6	bc-	49	75	8	2500	Cu	4	Ci	5	0	1012.6	-2	WSW	3	o/r	47	92	8	4000	Nb	3	A.St	9	0
Dungeness	1012.9	-4	SW	4	o/r	48	85	7	4000	Cu Nb	9	-	9	*	1013.2	+1	SW	4	o+	45	97	8	-	-	0	A.Cu	10	4
Jersey 7h / Guernsey 1h	1017.5	0	SW	4	b	52	75	7	-	-	0	A.Cu	2	*	1015.0	-1	SW	4	c	50	75	7	4000	StCu	8	-	8	4

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. Day.	Rainfall. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %
	24 HOURS ENDED 0900 G.M.T. 17								YESTERDAY.	TO-DAY.	
Kew	o m o	ob	b o m d y	*	*	35	N.	1	0.0	*	*
Croydon } 24 hours ended 0700	o r y m	o d o c	b o m y	*	*	35	0.1	4	0.0	*	*
Greenwich (Royal Obsy.)	o	o d	o r d b c	48	38	33	-	2	0.0	80	90
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*						0.1		
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*		*	*
Camden Square	0	0		48	39	36	-	1	*	*	98
Kensington Palace	0	0	b o r o	48	39	33	-	1	*	74 (18h)	87
Hampstead Observatory	*	*	*						0.0	*	

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T.

South Kensington Max.	Time.	Min.	Time.
-	-	-	-

Kew Observatory Max.	Time.	Min.	Time.
-	-	-	-

POLE STAR RECORD at Greenwich Obsy.

Exposure from ..... h. ..... m. to ..... h. ..... m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	- -	- -	-
β Ursæ Minoris	- -	- -	-

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

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	C	5	-	145
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

17th & 18th Dec.r, 1922.

STATIONS.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	8.3 / 8.3	11.50 / 11.50	3.37 / 3.37
Greenwich	8.4 / 8.4	11.57 / 11.57	3.50 / 3.50
Wick	9.2 / 9.2	12.9 / 12.9	3.16 / 3.16
Valencia	8.48 / 8.48	12.38 / 12.38	4.28 / 4.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
p precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
roro = continuous light rain.

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

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

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

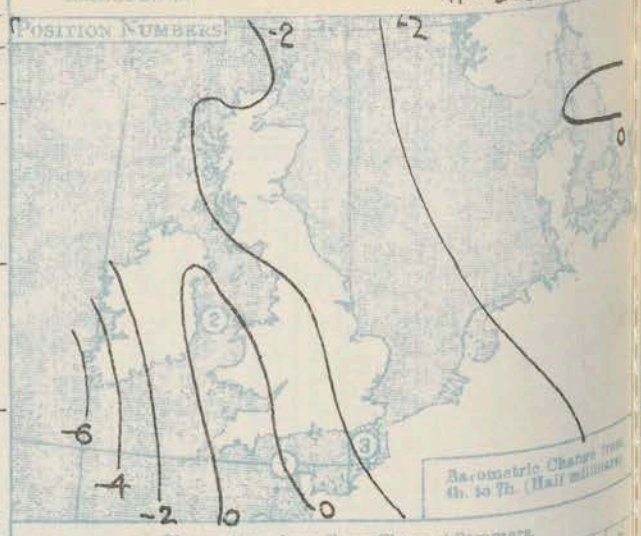
* For explanation see introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 16h.	13h.-18h. 16h.	18h. 16h. to 1h. 17h.	1h.-7h. 17h.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 16h. Hours.
Lerwick	bc	bc	bc	c	38	35	•	–	0.3	–	05.30	3.4
Stornoway	c	c	c	o	43	38	•	0.1	–	–	–	0.2
Wick	c	c	cir.q	cp.q	42	39	•	–	1	–	<21.00	•
Castlebay	obecop	opo					•	trace		–		
Nairn	obcc	cbcx	bcxc	cg	34	32	•	–	–	–	–	0.0
Aberdeen	bxr.f	ofrscors m	oirso	o	34	33	32	1	1	1230	<2100	0.0
Malin Head	bccoz	coz	or.r.	bcpr	42	37	•	–	1	–	<21.00	1.9
Renfrew	ofxom	om	omrrr.		40	38	37	–	4	–	22.00	0.0
Edinburgh (Inchkeith)	om	oo	ir	rr	41	39	38	–	3	–	22.00	0.0
Leuchars	oirm	omr	rord	rord	41	40	36	3	6	<0800	<2100	0.0
Eskdalemuir	ommod	odor	.or	odm	37	35	35	1	3	1100	<2100	0.0
Tynemouth	orrff	omp	ir.m	orrm	42	41	39	8	8	<0800	<2100	•
Blacksod Point ...												•
Donaghadee	c	cqd	R	omr	45	38	•	0.5	?1	1530	–	•
Birr Castle ...	coy	RR	Rrr.r	bc	40	32	25	4	1	1330	<2100	•
Holyhead	ogmc	cod.r.m	or.ir.	irocbc	47	42	40	0.3	1	1530	<2100	0.0
Liverpool (Bidston) ...	f-m	of	ophs		44	39	34	–	2	–	05.30	0.0
Chester (Shotwick) ...	dfefc	od.ddf	or.d.ffo	oprc	45	38	30	1	1	<0800	<2100	•
Spurn Head	ffdo	ffdo	ombd	o	45	41	•	2	1	<0800	<2100	0.0
Nottingham	r-dm	oo	or.c	c	44	38	32	2	0.1	<0800	<2100	0.0
Cranwell	fe.pr	ir.m	or.m	omcm	43	35	31	2	Trace	0900	2200	0.0
Gorleston	omdc	roq	oco	doror	47	41	38	1	1	0900	01.30	0.0
Valencia (Cahirciveen)	oir	orphc	cphq	bcpqo	49	38	34	5	1	03.00	<2100	0.3
Roches Point							•					•
Pembroke (St. Ann's H.)	oo	copr	oqpr	p	50	43	•	2	1	1330	<21.00	0.1
Ross-on-Wye	irqcbc	ocor	rcbbcp	cocu	49	38	35	2	1	<0800	<21.00	1.0
Benson...	oc	oco	r.o	bbc	50	35	31	trace	1	–	<21.00	•
Andover	od.	od.oco	oprc	oprobcb	46	34	30	trace	1	<0800	<2100	0.1
S. Farnborough ...	odoq	odocb	borro	orrobc	47	30	29	trace	2	<0800	<2100	0.0
London (Kew Obsy.) ...	omo	ob	bomd.oro	cobobc	48	40	35	trace	1	1330	<2100	0.0
Croydon	or.r.m	od.oc	bcomr.r	bbcrr	47	39	35	0.1	4	0900	<2100	0.0
Clacton-on-Sea ...	cgeog	ogm	ogmbc	bcorc	46	41	38	–	4	–	03.30	0.0
Shoeburyness	oog	ogd	bcc	oRrcbcb	48	39	36	trace	4	1330	24.00	0.0
Grain	omco	oo	obor	Yord	48	38	31	–	5	–	22.00	0.1
Lympne	ompro	ocbc	omrr	omrrcbc	47	39	36	0.3	4	0900	24.00	0.0
Scilly (St. Mary's) ...	oqp.	orrq	bqp	bccoq	52	44	•	5	1	1100	<2100	1.4
Falmouth (Pendennis)	bccq	ccrbc	bcpbc	bcp	51	42	•	5	3	1330	<21.00	1.6
Plymouth (Cattewater)	bcc	orr						4		1530		
Portland Bill	ocbc	bcco	bcop	opbc	52	41	•	–	4	–	24.00	•
Southampton (Calshot)	ocbcq	bccop	rrRo	rrcbc	50	38	36	0.2	9	1630	<2100	2.0
Dungeness	pq	bbc	oqiR.	p	48	42	•	–	6	–	<2100	•
Jersey	ob	bo	p	bo	53	46	•	–	1	–	22.00	4.8

17th December



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Pressure
2	16th 10h	Cambria	NE.	4	oe	46	51	8
1	16th 13h	Ibex	WNW	7	bc+	52	52	8
3	17th 3h	–	W	5	bcjp	44	47	9

GENERAL INFERENCE.

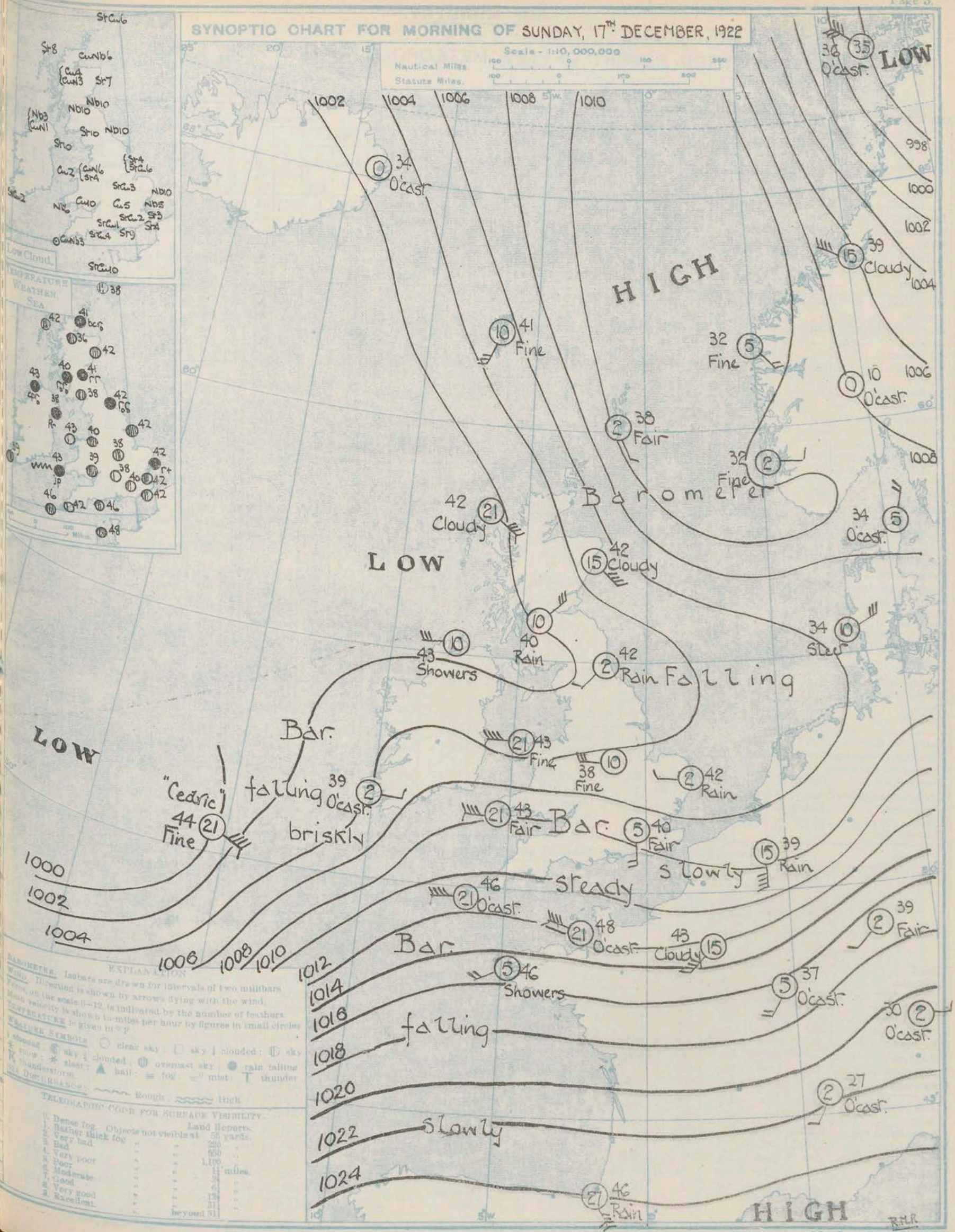
Depressions advancing from the Atlantic will maintain unsettled conditions in all districts with variable skies, rain or showers at times, and a moderate to rather low temperature

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday, 17th December, 1922.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Westerly winds backing to S or SE; moderate or fresh, strong at times; much cloud at times, some rain; visibility moderate or good; rather low temperature.	Unsettled generally.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Winds light or moderate, fresh at times, mainly between S. and E; variable skies, occasional rain or showers; visibility mainly moderate or good; rather cold, frost locally inland at night.	
19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh, S.E. to E winds; much cloud at times, some rain; visibility moderate or good; rather low temperature.	

mh.

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

† For Code see synoptic chart.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION....Sunday 17th December.....1922. No. 351

Observations at 0100 G.M.T. 17th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1012.1	0	–	0	b	37	85	7	5/00	StCu	3	–	3	•
Stornoway	1005.5	-2	SSW	2	0	•	•	5	•	•	•	•	•	•
Wick	1008.2	-2	SE	5	bc+	42	92	8	2500	CuNb	5	–	5	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	1002.3	-1	SSE	2	b/r	38	97	7	5/00	Nb	2	–	2	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	1005.1	-3	E	2	orr	41	92	8	–	Nb	10	–	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	1006.2	-3	SE	3	or₀	43	92	6	4000	Nb	10	–	10	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1003.9	0	W	5	o/r	43	92	8	2500	CuNb	10	–	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	1006.1	-1	SSW	2	mmo	41	97	4	450	St	10	–	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1006.7	-3	SE'S	2	o/r	40	97	5	800	St	9	–	9	•
Gorleston	1009.0	0	SW	2	od₀	42	92	6	2500	Nb	10	–	10	•
Valencia (Cahirciveen)	1010.5	+1	NW'W	4	bc/h	42	85	7	–	Cu	4	–	4	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1007.7	0	W	5	bcjp	45	75	8	4000	CuNb	6	–	6	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	44	•	•	•	•	•	•	•	•
Croydon	1008.8	-4	SW'S	3	bc/r	42	97	7	–	–	0	cSt	4	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1009.2	-4	SW	5	orr	45	97	4	225	Nb	10	–	10	•
Scilly (St. Mary's) ...	1013.3	+2	W'N	7	b	48	65	8	2500	CuNb	2	–	2	•
Falmouth (Pendennis)	1011.2	+2	WNW	5	b/r	45	75	7	4000	Cu	2	–	2	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1008.4	-3	W	6	cpr₀	47	85	7	1500	StCu	7	–	7	•
Southampton (Calshot)	1008.4	-3	SW	3	orr	45	92	7	1500	Nb	10	–	10	•
Dungeness	1008.7	-4	SW	5	oR	47	97	7	4000	Nb	10	–	10	•
Jersey 7h }	1012.5	-2	SW	4	opr₀	48	75	8	4000	Nb	9	–	9	•
Guernsey 1h }														

Observations at 0700 G.M.T. 17th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1010.1	-3	SSE	1	bc+	38	75	7	5/00	StCu	6	–	6	0
Stornoway	1001.9	-2	SE	5	c	42	85	6	800	St	5	?	8	4
Wick	1004.9	-1	SE	5	bcr₀	41	92	8	4000	CuNb	6	–	6	3
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	1003.4	•	E	1	c+	36	85	8	4000	Cu	7	–	7	0
Aberdeen	1005.6	-3	SE	4	c	42	85	8	1500	St	7	–	7	4
Malin Head	1001.1	-1	W	3	bcpr₀	43	85	8	5/00	Nb	4	–	4	4
Renfrew	1002.0	-3	NE	3	or₀r₀	40	97	5	1500	Nb	10	–	10	•
Edinburgh (Inchkeith)	1002.6	-1	E	2	orr	41	92	8	–	Nb	10	–	10	2
Leuchars	1003.1	-4	E	3	orr	41	97	5	1500	Nb	10	–	10	•
Eskdalemuir	1001.1	-3	E'N	4	o/r	38	92	6	1500	St	10	–	10	•
Tynemouth	1002.5	-3	SW	1	or₀r₀	42	97	6	4000	Nb	10	–	10	1
Blacksod Point ...	1003.0	0	W	2	oR-	38	97	7	1500	St	10	–	10	2
Donaghadee	1005.3	•	SE	1	b-	32	-	6	800	St	2	–	2	•
Birr Castle	1003.6	0	W	5	b-	43	92	8	4000	Cu	2	–	2	2
Holyhead	1003.5	-1	W'S	4	o/rs	40	97	8	1500	CuNb	10	–	10	5
Liverpool (Bidston) ...	1004.1	-1	WNW	5	bc/r	41	85	8	2500	StCu	5	–	5	•
Chester (Shotwick) ...														
Spurn Head	1003.2	-3	SW	1	o/r	42	92	6	2500	StCu	10	–	10	2
Nottingham	1004.3	•	W	1	b+	38	97	7	2500	StCu	3	–	3	•
Cranwell	1004.9	-1	W'S	3	c	39	97	6	2500	St	8	–	8	•
Gorleston	1005.7	-3	W	1	or+	42	92	6	2500	Nb	10	–	10	0
Valencia (Cahirciveen)	1004.0	-7	E	1	o	39	85	8	4000	StCu	2	ASt	10	4
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1008.0	0	W	5	bcjp	43	75	8	2500	Nb	6	–	6	0
Ross-on-Wye	1007.0	0	WSW	2	o-	39	85	9	2500	Cu	10	–	10	•
Benson...	1006.7	+1	W	3	bc/r	36	92	8	-	Cu	5	–	5	•
Andover	1007.8	-1	SW	4	b/r	36	97	8	1500	StCu	2	–	2	•
S. Farnborough ...	1007.4	0	WSW	3	bc-	35	85	8	-	StCu	1	ACu	5	•
London (Kew Obsy.) ...	1006.9	0	SSW	2	bc/r	40	85	7	2500	StCu	2	ACu	4	•
Croydon	1007.4	-1	WSW	4	bc+	39	92	7	1500	StCu	4	CiSt	6	•
Clacton-on-Sea ...	1005.1	-2	W	2	c	42	97	6	2500	Nb	5	ASt	8	1
Shoeburyness	1006.9	-4	W	3	b/r	40	85	6	2500	StCu	1	ACu	2	•
Grain	1006.4	-2	WSW	4	b+	39	92	7	1500	St	3	-	3	0
Lympne	1006.7	-1	W	4	bc/r	39	97	8	800	St	3	ACu	3	•
Scilly (St. Mary's) ...	1011.2	-2	W	5	o	46	75	8?	–	–	0	ASt	10	6
Falmouth (Pendennis)	1011.0	0	WNW	3	b	42	85	7	5/00	CuNb	3	–	3	1
Plymouth (Cattewater)	1008.4	0	W'N	6	bc-	46	75	7	1500	StCu	4	–	4	5
Portland Bill	1008.6	-1	W	4	b/r	40	85	8	–	–	0	–	0	0
Southampton (Calshot)	1006.6	-2	W	5	bc/r	42	97	8	2500	St	4	–	4	5
Dungeness	1011.8	0	WNW	5	o/r	48	85	7	2500	StCu	10	–	10	4
Jersey 7h }														
Guernsey 1h }														

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 15-16th °F.	Temperature. Max. Day. 16th °F.	Rainfall.† Night 17h.-9h. 15-16th mm.	Rainfall.† Day 9h.-17h. 16th mm.	Sunshine. hr.	Sunrise to Sunset. 16th hr.
Banff								
Montrose	*	*	29	42	–	0.1		0.0
Llandudno	m	m	40	45	–	–		0.0
Colwyn Bay ...	ef	efo	43	44	2	–		0.0
Rhyl...	o	o	42	46	1	–		0.0
Southport	o	odo	40	43	0.8	0.1		0.0
Blackpool	ome	ome	41	42	0.6	0.3		0.0
Harrogate	or	od	36	40	2	0.2		0.0
Skegness	dor	ro.o	40	44	0.2	2		0.0
Aberystwyth ...	orc	o	44	49	0.3	–		0.0
Bath	o	o	44	48	2	–		0.0
Leamington Spa ...	od.b	cbo	40	46	2	0.3		0.3
Lowestoft	ofor₀	or₀	39	47	1	0.5		0.0
Felixstowe	om	om	39	47	0.3	–		0.0
Southend	o	o	40	46	–	–		0.0
Ilkley	ogd.m	dgor₀	38	41	2	0.2		0.0

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 15-16th °F.	Temperature. Max. Day. 16th °F.	Rainfall.† Night 17h.-9h. 15-16th mm.	Rainfall.† Day 9h.-17h. 16th mm.	Sunshine. hr.	Sunrise to Sunset. 16th hr.
Paignton	b	bec	45	53	–	2		4.0
Ilfracombe	oco	or	45	50	2	2		0.7
Bude	bcjp	rro	46	50	2	2		2.1
Penzance	cbc	orbc	46	52	-	4		1.3
Falmouth Observatory	bcv	orob	43	52	-	5		1.2
Torquay	b	bcro	45	52	-	2		3.9
Weymouth	obc	bco	47	51	-	-		2.4
Bournemouth ...	bc	bc	45	51	-	-		3.6
Portsmouth (S'thsea)	ob	oc	44	50	-	-		2.0
Worthing	bc	bcb	45	49	-	-		1.0
Brighton	cbc	cob	45	49	-	-		0.4
Eastbourne	cro	coc	44	49	0.2	0.8		0.7
Hastings	opo	ocbc	43	48	0.6	0.8		0.6
Folkestone	r	o	41	48	0.4	0.5		0.0
Tunbridge Wells ...								0.6
Ramsgate	ocbc	co	40	49	-	-		0.1
Margate	or	o	40	50	-	0.2		0.0
Deal	o	opoc	41	48	-	1		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22306 Monday, 18th December 1922.

Observations at 1300 G.M.T. 17th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	1008·6	-2	SE	3	bc	40	75	7	4000	St Cu	6	-	6	*
Stornoway	999·3	-3	SE	4	c-	43	85	6	2500	Cu	7	-	7	*
Wick	1002·7	-3	SSE	6	c/pr₀	43	85	8	2500	Cu Nb	7	-	7	*
Castlebay	*													*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1004·0	*	SE	5	bc	42	75	8	1500	St Cu	6	-	6	1
Malin Head	997·9	-4	SSE	3	b	43	85	8	4000	Cu	2	Ci Cu	4	*
Renfrew	1000·1	-3	E	2	o/r	41	92	5	2500	St	10	-	10	2
Edinburgh (Inchkeith)	1001·1	-2	SE	1	or	42	97	6	~	Nb	10	-	10	*
Leuchars	1002·0	-2	ESE	4	orr	42	92	7	800	Nb	10	-	10	2
Eskdalemuir	1003·5	-1	E'S	1	o	39	85	7	2500	St Cu	10	-	10	2
Tynemouth	1002·8	-1	SSW	1	mbc-	35	85	4	2500	St	4	Ci Cu	6	*
Blacksod Point														*
Donaghadee	1000·8	-3	WSW	1	c-	39	85	7	-	-	0	A Cu	7	*
Birr Castle		*												*
Holyhead	1001·8	-4	SW'S	2	o-	44	85	8	4000	Cu	1	Ci Cu	8	2
Liverpool (Bidston)	1002·7	-1	WSW	3	bc-	43	85	8	2500	Cu	4	-	4	*
Chester (Shotwick)	1003·2	-3	WSW	4	b+	45	75	8	2500	Cu	1	Ci St	2	1
Spurn Head	1003·2	0	WSW	3	b	43	85	6	-	-	0	Ci	3	*
Nottingham	1003·9	*	W	3	b-	43	85	6	-	-	0	-	0	*
Cranwell	1004·4	0	WSW	3	b	43	85	6	-	-	0	-	0	5
Gorleston	1005·6	0	WNW	3	b-	42	85	6	2500	St Cu	5	-	5	*
Valencia (Cahirciveen)														
Roches Point														*
Pembroke (St. Ann's H.)	1003·0	-6	SE	5	o/p	45	65	8	2500	St	10	-	10	*
Ross-on-Wye	1004·9	-3	SW	2	c⊕	41	75	7	-	-	0	Ci	8	1
Benson	1006·3		WSW	2	b	48	75	8	-	-	0	Ci St	2	1
Andover	1007·2	-1	SSW	3	c⊕	40	92	7	-	-	0	A St	8	1
S. Farnborough	1007·0	-1	WSW	3	c+	42	85	7	-	-	0	Ci	7	2
London (Kew Obsy.)	1006·7	-3	WSW	3	b	44	75	6	2500	Cu	1	Ci	3	1
Croydon	1007·2	-1	W'S	3	b	44	75	6	4000	Cu	1	Ci	3	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1006·3	0	-	0	ifc	43	75	3	2500	St	7	-	7	*
Grain	1006·8	-1	WSW	4	b-	45	75	7	-	-	0	Ci	1	2
Lympne	1007·0	-1	W	4	bc-	44	75	8	2500	Cu	3	A. St	4	1
Scilly (St. Mary's)	1000·2	-16	SE	5	ORR	48	97	5	2500	Nb	10	-	10	*
Falmouth (Pendennis)	1004·9	-8	S	6	orr	43	92	7	4000	Nb	10	-	10	*
Plymouth (Cattewater)	1005·4	-9	S	3	orr	44	85	8	1500	Nb	10	-	10	2
Portland Bill	1006·6	-3	W	5	or₀r₀	46	75	7	450	St	10	-	10	*
Southampton (Calshot)	1007·3	-4	WSW	2	o+	44	75	7	-	-	0	A. St	9	*
Dungeness	1007·5	+1	W	5	bc	45	85	8	1500	St	4	-	4	*
Jersey	1009·1	-6	SSW	3	orr	43	92	6	5750	Nb	10	-	10	*

Observations at 1800 G.M.T. 17th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea¶ 0-9
Lerwick	1006·3	-2	SSE	2	o	39	65	7	4000	St Cu	10	-	10	1
Stornoway	994·9	-5	SE	6	c	42	92	6	2500	Cu	7	-	7	5
Wick	999·8	-3	SSE	6	bc	43	75	8	2500	Cu Nb	5	-	5	6
Castlebay														
Nairn	994·9	*	E'S	1	bc	39	85	8	4000	Cu	4	-	4	*
Aberdeen	1000·8	-4	ESE	6	o	42	75	8	1500	St	10	-	10	3
Malin Head	992·8	-1	SSE	3	c	38	85	8	-	-	0	A. Cu	7	5
Renfrew	996·8	-4	E	2	o	41	85	5	2500	St Cu	10	-	10	*
Edinburgh (Inchkeith)	998·1	-2	SSE	1	bc-	41	85	7	-	St Cu	3	A. St	3	1
Leuchars	998·2	-4	ESE	4	o/r	43	92	7	1500	St	10	-	10	*
Eskdalemuir	998·1	-2	SSE	1	o	38	97	6	1500	St Cu	10	-	10	*
Tynemouth	999·7	-3	S	1	o	42	92	6	2500	St	10	-	10	1
Blacksod Point														
Donaghadee	997·2	-5	SSW	1	b-	39	85	8	-	-	0	Ci Cu	3	0
Birr Castle		*												*
Holyhead	995·5	-6	SE	4	c-	42	92	8	4000	St Cu	7	-	7	2
Liverpool (Bidston)	998·7	-4	S'E	3	o+	37	92	7	2500	St	9	-	9	3
Chester (Shotwick)	999·0	-8	SE	2	b-	37	92	5	-	-	0	A. St	2	*
Spurn Head	1001·5	-2	SSW	2	b	38	97	6	-	-	0	-	0	
Nottingham	1000·6	*	SE	1	b	33	97	6	-	-	0	-	0	*
Cranwell	1003·4	-2	S'E	1	b	31	92	7	4000	St Cu	1	-	1	*
Gorleston	1004·8	-1	SW	1	b-	37	92	6	-	-	0	-	0	0
Valencia (Cahirciveen)	988·5	-2	SW	5	orr₀	53	92	6	1500	St	10	-	10	4
Roches Point														
Pembroke (St. Ann's H.)	994·7	-8	ESE	7	orr	42	97	6	800	Nb	10	-	10	6
Ross-on-Wye	999·4	-6	SE'S	2	orr	37	85	6	1500	Nb	10	-	10	*
Benson	1006·5	-5	S	4	o+	39	92	8	-	-	0	A. St	10	*
Andover	1000·5	-8	E	3	orr₀	39	97	6	-	-	0	A. St	10	*
S. Farnborough	1001·3	-10	SE	1	orr₀	40	92	6	1600	Nb	10	-	10	*
London (Kew Obsy.)	1001·6	-7	S'W	2	o	41	85	6	4000	St	10	-	10	*
Croydon	1003·3	-5	S	3	orr₀	40	85	6	1500	St	10	-	10	*
Clacton-on-Sea	1003·8	-3	W	2	o+	40	92	6	7250	St Cu	10	-	10	1
Shoeburyness	1003·4	-3	-	0	bff	35	85	6	2500	St Cu	1	-	1	*
Grain	1003·6	-5	SSE	3	b+	39	92	6	-	-	0	A. St	2	0
Lympne	1003·7	-5	S	3	or₀	40	85	8	1500	Nb	3	A Cu	10	*
Scilly (St. Mary's)	995·3	0	W'S	5	orr₀	53	97	5	800	St	10	-	10	6
Falmouth (Pendennis)	994·7	-3	W	7	or-	52	97	5	1500	Nb	10	-	10	2
Plymouth (Cattewater)	995·8	-9	S	1	od-	46	97	7	1500	Nb	10	-	10	3
Portland Bill	996·6	-10	SE	7	orr	45	75	6	450	St	10	-	10	6
Southampton (Calshot)	1000·1	-10	SE	5	orr	43	92	7	1500	Nb	10	-	10	3
Dungeness	1005·0	-2	SW	3	br	43	97	8	1500	Nb	3	-	3	3
Jersey	999·3	-6	SSW	5	orr	51	97	6	1500	Nb	10	-	10	6

LONDON OBSERVATIONS. (24 Hours ended 0900 G.M.T. 18th; Sunshine and Humidity 15h.: Yesterday; Humidity 9h.: To-day)

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
Kew } 24 hours ended 0700	bm	bm.c.om	or f.dd	*	*	38	Tr	3	4·4	*	*
Croydon } 24 hours ended 0700	bc.bm	b.or m	or mrr	*	*	34	Tr	3	4·6	*	*
Greenwich (Royal Obsy.)	b	bo.	oir.b	48	38	34	-	3	4·4	84	94
City (Bunhill Row)	*	*	*	*	*	*	*	*	1·8	*	*
Westminster (St. James' Pk.)	*	*	*	46	39	35	4		4·3	82	94
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	2·7	*	*
Camden Square	b	c	*	46	39	36	-	5	*	*	99
Kensington Palace	bc.o	o	*	46	38	35	-	5	*	63 (18h)	98
Hampstead Observatory	*	*	*	45	36	31	1	4	4·3	*	95

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 17th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
*			

POLE STAR RECORD at Greenwich Obsy.

Exposure from 17th 16 h. 45 m. to 18th 4 h. 0 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14 15	Nil	0
δ Ursae Minoris	14 15	Nil	0

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

18th + 19th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.3 / 8.3	11.50 / 11.50	3.34 / 3.37
Greenwich	8.4 / 8.4	11.57 / 11.57	3.50 / 3.50
Wick	9.2 / 9.2	12.9 / 12.9	3.16 / 3.16
Valencia	8.48 / 8.48	12.38 / 12.38	4.28 / 4.28

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, „ 200—1000 m.
F thick fog „ less than 200 m.
jp precipitation within sight of station.
p passing showers. r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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

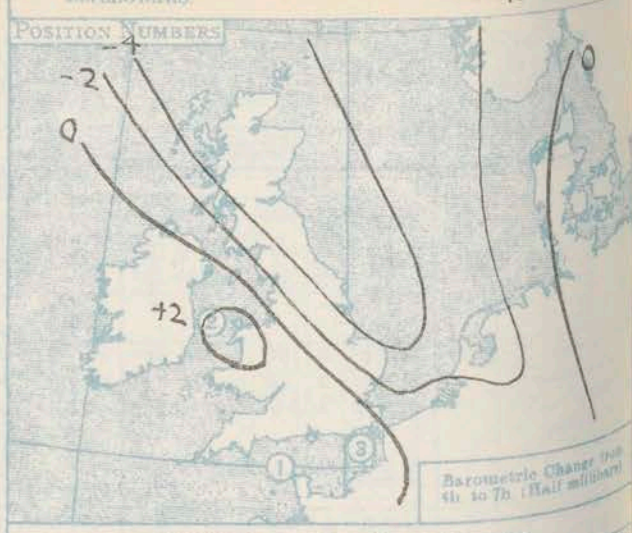
[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. ¶ For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 17th	WEATHER. 13h.-18h. 17th	WEATHER. 18h. 17th to 1h. 18th	WEATHER. 1h.-7h. 18th	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on GRASS	RAINFALL† Day. 7h.-18h. mm.	RAINFALL† Night. 18h.-7h. mm.	RAINFALL† Precipitation began.	RAINFALL† Precipitation began.	SUN. 17th Hours.
Lerwick	c	c pr	og	obg	41	34	•	0·2	trace	1530	24·00	0·8
Stornoway	c	c	c	rr	43	38	•	–	2	–	01·30	0·9
Wick	c pog	b-bc	b.bc	bc.orr	43	41	•	0·4	2	2080	04·30	
Castlebay			op	op	45	41	•		2		–	0·0
Nairn	c.bg	bc.cg	cg	bg	41	34	•	–	0·2	–	–	2·5
Aberdeen	c	c	og	oq Rr	43	34	35	–	10	–	24·00	0·2
Malin Head	bc	bccoe	g. oRr	R.r.bc	44	34	•	–	3	–	22·00	3·6
Renfrew	omit₀	om	om m	orsrs	42	33	32	0·5	5	2080	02·30	0·0
Edinburgh (Inchkeith)	ir₀	ir₀	c	rr	43	34	34	1	0·5	1430	04·30	0·4
Leuchars	r	r	r.d		43	36	30	5	2	2080	<21·00	0·0
Eskdalemuir	omo	oo	o.c.bc	ofs.o	39	32	32	–	2	–	04·30	0·0
Tynemouth	ortff	om	ommq	orrmq	42	34	33	0·4	2	2080	03·30	•
Blacksod Point ...							•					•
Donaghadee	rpo	bc	c.or	c.or	43	42	•	2	2	0900	03·30	•
Birr Castle ...												
Holyhead	coo	ooc	or.ar Dm	od.bcb	45	40	40	–	4	–	24·00	2·5
Liverpool (Bidston) ...	b	oco	r.d		46	36	32	–	5	–	24·00	5·3
Chester (Shotwick) ...	bmbb	bccbm	boRRQm	opr.bc	47	36	30	–	5	–	<21·00	•
Spurn Head	b-bc	b-bc	b.o	r.d	43	36	•	Trace	2	2080	02·30	3·4
Nottingham	b-bc	b-bc	b.oR	R.e.bc	43			–		–		
Cranwell	cbcm	b-bc	r. m	rr.P.o	43	29	23	–	4	–	24·00	5·8
Gorleston	orcbc	bcb	b.bc.c.o	r.og	43	35	30	3	3	2080	01·30	2·4
Valencia (Cahirciveen)		orr						4		2080		
Roches Point							•					•
Pembroke (St. Ann's H.)	p	oqpr	ogp	c.oqpr	49	42	•	1	3	0900	<21·00	0·0
Ross-on-Wye	bcbvbcc	oqbmr₀	r₀mrr	r₀ldo	43	38	34	0·1	3	1730	<21·00	3·4
Benson...	b	bo	r.o	r.bc.b	45	38	31	–	2	–	<21·00	•
Andover	bbcc	coorc	orro	o.c.r.d	48	39	33	1	3	1630	<21·00	2·9
S. Farnborough ...	bcbc	bccoor₀	or.ro	or.r.o.co	44	36	39	0·2	3	1730	<21·00	4·0
London (Kew Obsy.) ...	bmbm	bmcom	om.omr	mrofq	44	41	38	Trace	3	–	<21·00	4·4
Croydon	bcbm	bor₀m	or.mrr	omr.r	46	39	34	Trace	2	1730	<21·00	4·6
Clacton-on-Sea ...	cbc	bcom	om.o.	og.r.oq	44	40	35	–	3	–	03·30	4·2
Shoeburyness ...	of	bcm	bc.c.or.r	orrd.ff	46	34	31	–	3	–	<21·00	4·8
Grain	bbcb	bbcbm	or.r	or.r	45	39	32	–	3	–	<21·00	5·2
Lympne	bcb	bccor₀	r.d	omfrr	44	40	38	Trace	3	1730	<21·00	5·0
Scilly (St. Mary's)	omrq	omqr	omqp	oo	53	49	•	13	1	2080	<21·00	0·0
Falmouth (Pendennis)	bccor	omrq	ompq	opm	52	49	•	16	3	2080	<21·00	0·0
Plymouth (Cattewater)	ort	orrd						12		2080		
Portland Bill ...	bcor	oqr	ogro	o.c	48	40	•	5	1	1230	<21·00	•
Southampton (Calshot)	dcco	ort	rrr₀r	r.r.o	45	43	42	1	3	1430	<21·00	2·8
Dungeness	b-bc	pr	or	pfmor	45	42	•	Trace	2	1730	<21·00	•
Jersey	ort	ort	orrwr	brr.o	51	50	•	13	11	0900	<21·00	0·0

ISALLOBARS.

18th Dec. 1922



Observations from Cross Channel Steamers.

Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	14th 1000	Cambria	W	4	bk	43	50	9
3	16th 0300	Arundel	WSW	5	r	51	49	6

GENERAL INFERENCE.

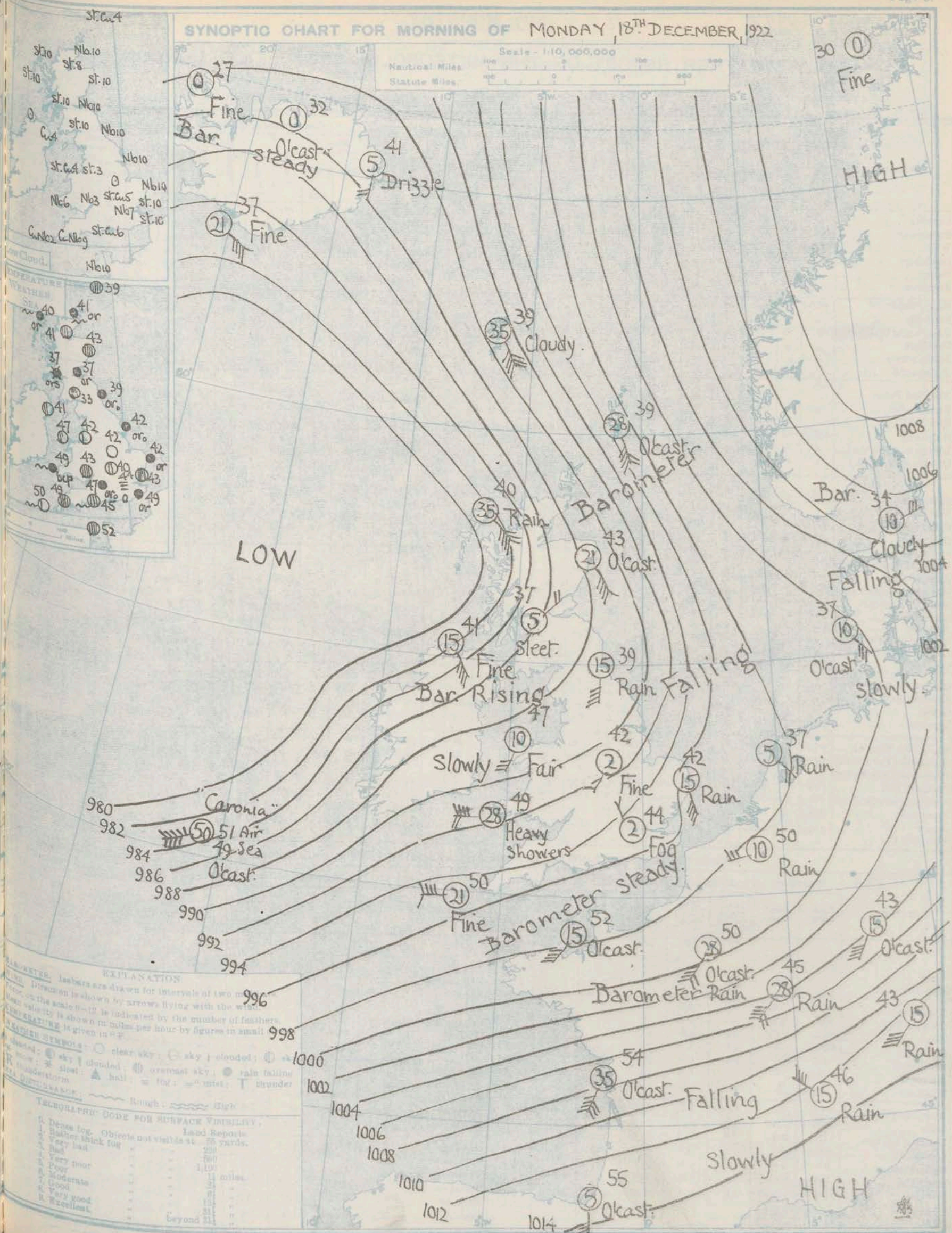
Pressure is likely to remain lowest near Iceland and further secondary depressions will maintain unsettled weather over the British Isles with winds mainly from between S. and W.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Monday, 18th December 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind W. to S.W. moderate or fresh; variable sky, some showers; visibility mainly good; mild at first then rather colder.	Unsettled generally with winds between S. and W.
7. North Wales 8. N.W. England 9. N. Midlands	Wind S.W. to W. moderate; variable sky, some showers; visibility mainly good; mild at first then rather colder.	
10. N.E. England 11. E. Scotland 12. S.W. Scotland	Wind S.E. fresh or strong veering S.W. and moderating; some rain or sleet early, fairer later; visibility moderate to good; milder temporarily.	South Cone hoisted on 17th December at 1430 and 2015.
13. Isle of Man	As for 7 to 9	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind S.E. strong to a gale, veering S.W.; mainly overcast, some rain or sleet; visibility moderate; rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly backing S.W. moderate to strong; variable sky some rain or showers; visibility mainly good; rather cold temporarily.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0925 GMT

G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF MONDAY, 18TH DECEMBER, 1922
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
Bar.
Fine
O'cast steady
Drizzle
Cloudy
O'cast
Barometer
Falling
Rain
Sleet
Bar. Rising
Slowly
Fair
Heavy showers
Fog
Barometer steady
Caronia
Air
Sea
Falling slowly
HIGH
1008
1006
1004
1002
980
982
984
986
988
990
992
994
996
998
1000
1010
1012
1014

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Monday, 18th December.....1922. No. 352

Observations at 0100 G.M.T.....18th.....

STATIONS	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	1002·3	-3	SSE	4	0	36	85	4	5400	St Cu	3	A St	10	•
Stornoway	990·9	-8	SE	6	0	•	•	5	•	•	•	•	•	•
Wick	994·4	-5	SSE	9	bc	42	92	8	4000	Cu	4	-	4	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	983·1	-4	SE	6	oR-	38	94	4	5400	Nb	10	-	10	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	992·5	-6	S	2	c+	39	85	8	*	St	8	-	8	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	996·3	-3	S	3	b	39	92	6	-	-	0	-	0	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	986·3	-12	SSE	4	oD-	45	94	6	<150	St	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	994·3	-6	SE	5	0	40	92	4	450	St	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	995·9	-6	SE	3	orr	33	94	5	800	Nb	10	-	10	•
Gorleston	998·9	-4	S'E	4	0	42	85	8	4000	Nb	10	-	10	•
Valencia (Cahirciveen)														•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	991·2	0	SW	6	c/p	51	85	8	2500	Nb	4	-	4	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	41	•	•	•	•	•	•	•	•
Croydon	994·4	-6	SSE	4	or, r,	41	94	6	1500	St	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	994·8	-8	SE	5	orr	41	94	6	800	Nb	10	-	10	•
Scilly (St. Mary's) ...	995·2	0	WSW	5	ob/r	52	92	6	1500	St	10	-	10	•
Falmouth (Pendennis)	994·0	0	W	6	oPR	54	85	6	1500	Nb	10	-	10	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	993·9	-2	WSW	6	o/r	44	95	6	450	St	10	-	10	•
Southampton (Calshot)	994·0	-3	SSE	3	or	46	94	4	1500	Nb	10	-	10	•
Dungeness	996·0	-4	SE	4	orr	42	94	4	-	-	0	A St	10	•
Jersey 7h }	994·4	-1	WSW	4	orr	52	94	6	4000	Nb	10	-	10	•
Guernsey 1h }														

Observations at 0700 G.M.T.....18th.....

STATIONS	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	996·8	-4	SSE	6	c/r	39	95	4	4000	St Cu	4	A St	10	5
Stornoway	981·9	-3	SE	4	or,	40	92	4	450	St	10	-	10	6
Wick	988·1	-3	SSE	9	orr	41	94	4	2500	Nb	10	-	10	4
Castlebay	949·0	*	SW	4	opr,	44	92	4	1500	St	10	-	8	•
Nairn	985·4	•	-	0	Ct	41	95	8	1500	St	8	-	10	4
Aberdeen	989·3	-5	SSE	5	n	43	95	6	1500	St	10	-	10	4
Malin Head	981·0	-1	SSE	4	b	41	92	8	-	-	0	A Cu	2	4
Renfrew	986·3	-4	NE	2	ors	34	92	4	1500	St	10	-	10	•
Edinburgh (Inchkeith)	984·8	-5	SE	3	orr	34	92	8	*	Nb	10	-	10	2
Leuchars	988·4	-4	ESE	5	orr	38	92	4	1500	Nb	10	-	10	•
Eskdalemuir	984·3	-3	SSE	2	0	33	94	6	800	St	10	-	10	3
Tynemouth	989·9	-5	S	4	or, r,	39	94	6	4000	Nb	10	-	10	•
Blacksod Point ...	986·6	0	SW	1	bc-	41	92	8	2500	Cu	4	-	4	1
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	988·0	+2	SW'S	3	bc+	44	94	8	2500	St Cu	4	-	4	2
Liverpool (Bidston) ...	988·4	+2	SW	3	b/r	42	85	8	2500	St	3	-	3	3
Chester (Shotwick) ...	989·0	0	E	1	bc/r	41	92	6	2500	St Cu	5	-	5	•
Spurn Head	989·9	-3	ESE	4	orr	42	94	6	4000	Nb	10	-	10	5
Nottingham	990·8	•	SSW	1	8,	42	94	5	-	-	0	-	0	•
Cranwell	991·0	-3	S'W	3	o/r	35	94	5	225	St	10	-	10	•
Gorleston	994·8	-4	S'E	4	orr	42	94	4	4000	Nb	10	-	10	2
Valencia (Cahirciveen)														•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	991·2	0	W	6	bcPR	49	95	8	2500	Nb	6	-	6	6
Ross-on-Wye	991·9	+1	W'S	1	o-	43	92	6	*	Cu Nb	9	-	9	•
Benson...	992·3	+1	SSW	2	be/r	40	94	4	*	St Cu	5	-	5	•
Andover	993·9	+1	SSW	2	c-	45	94	6	2500	St Cu	8	-	8	•
S. Farnborough ...	993·2	+1	WSW	2	or,	44	94	6	1500	Nb	8	A Cu	10	•
London (Kew Obsy.) ...	993·3	+1	N'W	1	fo-	44	94	3	1500	Nb	4	A St	10	•
Croydon	993·4	0	SW	3	orr	49	94	6	800	Nb	8	A St	10	1
Clacton-on-Sea ...	993·3	-2	SSE	1	o/r	43	94	6	4000	St	10	-	10	•
Shoeburyness	993·5	-1	SW	1	od d	46	85	3	1500	St	10	-	10	0
Grain	994·2	0	-	0	or,	44	94	6	800	Nb	10	-	10	•
Lympne	994·0	0	SW	3	FFO	49	94	1	<150	Nb	10	-	10	•
Scilly (St. Mary's) ...	994·9	0	W	5	bt	50	95	4	2500	Cu Nb	2	-	2	6
Falmouth (Pendennis)	995·1	0	W	4	o-	49	92	6	2500	Cu Nb	9	-	9	3
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	6
Portland Bill	993·9	0	W'S	6	bc-	45	85	4	1500	St Cu	6	-	6	0
Southampton (Calshot)	994·5	+1	W'S	3	c/r	49	92	6	-	-	0	Ci	8	5
Dungeness	994·4	+1	WSW	4	orr	49	94	4	1500	St	10	-	10	4
Jersey 7h }	996·8	0	SW	4	o/r	52	94	4	1500	Nb	10	-	10	•
Guernsey 1h }														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR....Sunday, 17th Dec.

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 16th-17th °F.	Temperature. Max. Day. 17th °F.	Rainfall.† Night 17h.-9h. 16th-17th mm.	Rainfall.† Day 9h.-17h. 17th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 17th hr.
Banff								0·0
Montrose			40	43	2·0	0·3		0·0
Llandudno	bccb	c	39	45	2·0	-		1·9
Colwyn Bay ...	bc	bc	40	45	-	-		2·3
Rhyl...	bc	bcc	40	46	0·5	-		4·1
Southport	cbcb	b	42	45	2·0	-		4·0
Blackpool	or	c	40	45	6·7	0·7		2·0
Harrogate	c	c	35	40	1·6	-		1·0
Skegness	b	b	39	44	0·7	-		5·2
Aberystwyth ...	rcc	o	42	46	2·0	-		1·5
Bath	mbbcc	cor	37	42	2·8	0·8		1·7
Leamington Spa ...	b	bc	36	45	0·9	-		4·5
Lowestoft	or, oc	b	37	44	3·0	-		3·0
Felixstowe	bc	bm	40	44	2·5	-		4·6
Southend	bc	bcco	38	44	3·3	-		4·0
Tilbury	oidcm	idcb	36	41	3·8	0·3		0·8

STATIONS	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 16th-17th °F.	Temperature. Max. Day. 17th °F	Rainfall.† Night 17h.-9h. 16th-17th mm.	Rainfall.† Day 9h.-17h. 17th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 17th hr.
Paignton	bcf	orr	33	48	3·3	5·8		0·0
Ilfracombe	o	or	42	45	2·8	1·8		0·0
Bude	po	rr	40	50	3·0	3·7		0·0
Penzance	or	ord	41	53	3·5	17·1		0·0
Falmouth Observatory	or	orr	41	53	3·7	19·4	-	0·0
Torquay	cor0	r	39	46	3·3	4·8		0·0
Weymouth	bco	or	41	46	5·6	3·7		1·3
Bournemouth ...	bb	rr	38	44	5·1	1·5		2·7
Portsmouth (S'thsea)	bbc	od	40	46	8·5	0·4		3·5
Worthing	bc	obr	37	45	4·1	0·3		3·7
Brighton	bbc	o	39	45	5·4	-		3·9
Eastbourne	bbc	cor	40	45	5·1	0·5		4·5
Hastings	bcb	bbco	38	45	6·8	-		5·1
Folkestone	r	bc	39	46	7·4	-		4·2
Tunbridge Wells ...	b	vc	37	46	4·7	-		4·9
Ramsgate	bcb	bb	37	45	8·1	-		4·6
Margate	bcb	bc	39	45	6·6	-		4·8
Deal	rbcb	bbb	39	46	5·8	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22,504 TUESDAY, 19th DECEMBER 1922. Page 1.

Observations at 1300 G.M.T. 18th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	993·1	-3	SE	6	cph₀	40	85	7	4000	CuNb	4	ACu	7	•
Stornoway	978·9	-3	S	4	or₀r₀	41	92	5	450	St	10	~	10	•
Wick	983·5	-6	SSE	9	orr	43	92	7	1500	Nb	10	—	10	•
Castlebay	977·3	-2	S	5	c/r	45	75	7	1500	Cu	7	-	7	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	985·3	-6	S	3	o-	42	85	6	1500	St	9	-	9	1
Malin Head	977·8	-7	S	6	b	41	92	8	4000	Cu	3		3	•
Renfrew	983·9	-2	SSW	3	b/r	43	85	6	2500	CuNb	2	Ci	3	2
Edinburgh (Inchkeith)	985·0	-2	SW	3	bc/r	43	85	8	*	Cu	4	-	4	•
Leuchars	984·7	-3	SE	2	c-	43	85	7	4000	StCu	6	ACu	7	2
Eskdalemuir	985·7	-2	-	0	bcfsh	37	97	6	800	St	6	—	6	7
Tynemouth	988·6	-1	S	2	cpfs₀	37	97	3	2500	St	7	-	7	•
Blacksod Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	?	-1	WSW	3	b-	44	75	8	-	-	0	ACu	3	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	986·8	-3	SSW	5	bc/r	45	85	8	2500	CuNb	5	ASt	6	2
Liverpool (Bidston)	988·4	-2	SW'S	3	c+	43	85	6	1500	Nb	8	-	8	•
Chester (Shotwick)	989·2	-2	SSW	2	b/r	47	75	7	2500	StCu	3	-	3	2
Spurn Head	990·5	0	S	1	b₀	46	92	6	-	-	0	~	0	•
Nottingham	990·8	•	SW	4	b₀	49	75	6	-	-	0	-	0	•
Cranwell	991·5	-1	SW'S	4	b₀	48	85	6	-	-	0	-	0	1
Gorleston	994·5	0	SW	3	b₀	46	92	6	-	-	0	CiCu	2	•
Valencia (Cahirciveen)	981·9	-5	SW	7	c-	47	65	8	2500	StCu	5	ACu	7	2
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	990·6	-3	SW	6	bcjp	48	75	7	2500	CuNb	4	-	4	•
Ross-on-Wye	992·4	-1	WSW	5	bc	50	65	8	4000	Cu	4	-	4	1
Benson	993·6	+0	SW	4	b-	49	85	8	-	Cu	1	-	1	2
Andover	994·7	0	SW	4	b/r	50	85	8	-	-	0	ASt	1	1
S. Farnborough	994·7	-2	WSW	3	mmc	48	92	6	2500	Cu	1	ASt	7	2
London (Kew Obsy.)	994·3	-1	SW	3	c+	48	85	5	-	-	0	Ci St	8	2
Croydon	995·2	+1	SW	2	o-	49	85	6	4000	StCu	2	Ci St	9	2
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	995·0	+1	WSW	3	cr₀	49	85	5	1500	StCu	7	ACu	8	•
Grain	995·1	0	SSW	3	o	49	92	6	4000	St	9	-	9	2
Lympne	995·7	0	W	3	or₀	49	97	5	225	Nb	10	-	10	2
Scilly (St. Mary's)	995·0	0	W'S	5	bc+	50	65	7	2500	CuNb	5	-	5	•
Falmouth (Pendennis)	994·7	-2	WSW	5	c/r	46	85	7	4000	CuNb	8	-	8	•
Plymouth (Cattewater)	995·6	-1	SW	5	o/r	45	85	8	800	CuNb	7	ACu	10	2
Portland Bill	996·9	0	W'S	5	bc-	51	75	7	-	-	0	ACu	4	•
Southampton (Calshot)	995·5	0	WSW	3	bc/r	49	92	6	4000	St	2	ASt	5	1
Dungeness	995·6	+1	WSW	3	orr	48	97	6	4000	Nb	10	-	10	•
Jersey 7h / Guernsey 1h	998·3	0	SW	5	o/r	51	92	7	2500	StCu	10	-	10	•

Observations at 1800 G.M.T. 18th

Stations	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	Low Cloud Form.	Low Cloud Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	988·0	-6	SE	6	od₀	41	85	7	2500	Nb	10	-	10	5
Stornoway	975·9	-3	S	5	o/r	44	92	5	450	St	10	-	10	4
Wick	981·8	-2	SSE	6	b/r	42	97	8	5700	Cu	2	-	2	6
Castlebay	972·7	-3	SSE	7	oPR+	46	85	5	800	St	10	-	10	8
Nairn	979·6	•	SSE	2	bc-	40	75	8	1500	St	5	-	5	•
Aberdeen	983·5	-1	S	3	c+	43	85	6	2500	St	8	-	8	4
Malin Head	971·8	-9	SE'S	6	bc+	42	85	8	5700	Nb	2	ACu	5	4
Renfrew	981·7	-2	E	1	b-	40	85	6	2500	St	2	-	2	•
Edinburgh (Inchkeith)	982·7	-2	SW	2	b-	41	85	8	-	Cu	1	ASt	2	2
Leuchars	982·6	-2	S	1	c	41	85	6	2500	StCu	8	-	8	•
Eskdalemuir	983·8	-2	S	3	sTLRH	38	92	6	800	Nb	10	-	10	•
Tynemouth	987·9	-1	SW	3	b/f	40	85	6	-	-	0	-	0	3
Blacksod Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	982·0	-4	WSW	1	b	42	75	8	-	-	0	ACu	3	2
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	985·6	-2	SSW	4	b/r	44	92	8	2500	Cu	2	ASt	3	4
Liverpool (Bidston)	987·9	-0	SW'S	5	o/r	40	85	7	1500	Nb	10	-	10	6
Chester (Shotwick)	988·3	-0	S	2	b/r	41	85	7	800	St	3	-	3	•
Spurn Head	990·5	0	S	4	b	43	92	7	-	-	0	-	0	3
Nottingham	991·0	•	SW	3	b-	44	85	7	-	-	0	-	0	•
Cranwell	991·6	-1	SSW	3	b	42	85	7	-	-	0	-	0	•
Gorleston	995·7	+1	SW	2	mb+	42	97	5	-	-	0	-	0	0
Valencia (Cahirciveen)	979·6	-1	SW	6	oph₀	45	75	7	2500	StCu	6	ASt	10	7
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	988·1	-2	SSW	8	bcpr₀	47	75	8	2500	Nb	6	-	6	6
Ross-on-Wye	992·2	-1	SW	3	opr₀	45	75	7	2500	Nb	10	-	10	•
Benson	994·0	0	SW	4	bc-	44	85	8	-	-	0	ASt	5	•
Andover	994·9	+0	S'W	3	c+	42	92	7	2500	StCu	7	-	7	•
S. Farnborough	995·2	-0	WSW	3	mmb	45	75	6	-	-	0	ACu	3	•
London (Kew Obsy.)	995·2	+1	SSW	3	bc+	46	85	6	-	-	0	ACu	4	•
Croydon	995·8	+1	SSW	3	c	45	85	6	4000	StCu	8	-	8	•
Clacton-on-Sea	995·3	+1	SW	3	b-	44	97	5	-	-	0	ASt	3	1
Shoeburyness	995·4	+1	SW	5	mmb	45	85	6	2500	StCu	1	-	1	•
Grain	996·1	+1	SSW	3	b+	45	92	6	-	-	0	ASt	2	0
Lympne	996·9	+1	WSW	3	b/f	43	97	6	450	St	2	-	2	•
Scilly (St. Mary's)	992·3	-2	SW'W	5	o	45	85	8	4000	StCu	10	-	10	7
Falmouth (Pendennis)	991·9	-3	SW	6	oPR	47	75	7	4000	Nb	10	-	10	3
Plymouth (Cattewater)	993·7	-4	SW	7	cjp	48	75	8	1500	St	10	-	10	6
Portland Bill	995·1	-1	SW	6	c+	49	85	7	-	-	0	ACu	7	5
Southampton (Calshot)	995·9	0	SW'W	4	cjp	47	85	8	4000	CuNb	7	-	7	0
Dungeness	996·8	+1	SW	4	b/r	46	97	8	-	-	0	-	0	4
Jersey 7h / Guernsey 1h	998·3	0	SW	4	o	50	85	7	2500	StCu	10	~	10	4

LONDON OBSERVATIONS	Weather: Morning	Weather: Afternoon	Weather: Night	Temperature: Max. °F.	Temperature: Min. °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. %
	24 Hours ended 0900 G.M.T. 19th								Yesterday.		To-day.
Kew } 24 hours ended 0700	bcfmom	bm.bc	b.bc.r.b	•	•	34	tr	4	1·6	•	•
Croydon } 24 hours ended 0700	o.bc.r.m	o.bm	c.o.m.r₀.bc	•	•	34	0·1	2	1·0	•	•
Greenwich (Royal Obsy.)	bc.o	c.b.o	or. b	50	39	32	-	2	0·4	90	85
City (Bunhill Row)	•	•	•	•	•	•	•	•	0·0	•	•
Westminster (St. James' Pk.)	•	•	•	51	41	35	4		0·4	83	48
Regent's Pk. (Botanic Gdns).	•	•	•	•	•	•	•	•	0·8	•	•
Camden Square	me	c	•	50	40	36	-	6	•	•	85
Kensington Palace	b	b	•	50	40	31	0·2	4	•	85(18h)	83
Hampstead Observatory	•	•	•	47	37	31	tr.	4	1·4	•	88

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 18th

South Kensington Max.	Time.	Min.	Time.
0·6	17th 17h	<0·3	18th 0-4h
1·0	18th 9h		

Kew Observatory Max.	Time.	Min.	Time.
0·7	17th 18h	<0·3	18th 0-4h
1·0	18th 9h		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 18th 16h. 45m. to 19th 7h. 0m.

Stars.	Exposure h. m.	Record h. m.	%
Polaris	14 15	4·42	52
δ Ursae Minoris	14 15	6·34	46

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

19th & 20th Dec., 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·5 / 8·4	11·50 / 11·51	3·34 / 3·38
Greenwich	8·4 / 8·5	11·54 / 11·38	3·50 / 3·51
Wick	9·2 / 9·3	12·9 / 12·10	3·16 / 3·14
Valencia	8·48 / 8·48	12·38 / 12·39	4·28 / 4·29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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

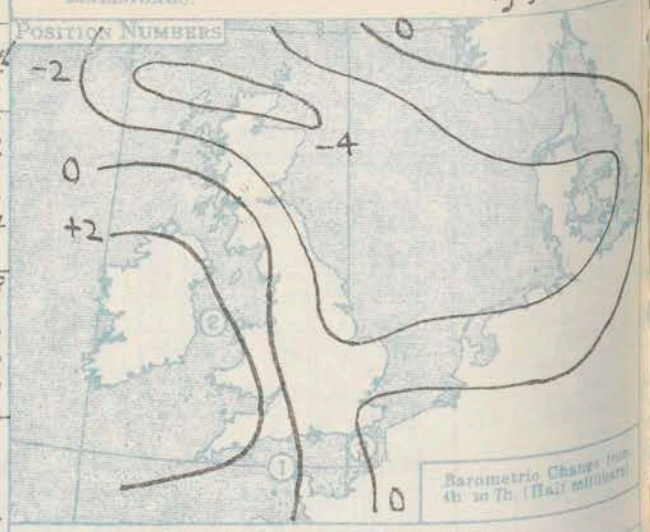
For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 18th	13h.-18h. 18th	18h. 18th to 1h. 19th	1h.-7h. 19th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 18th Hours.
Lerwick	cqprh	oqpr	oq prh	bephl	42	38	•	1	4	<0800	<21·00	0·0
Stornoway	rord	oo	r.d	r.d	46	41	•	3	2	–	•	0·2
Wick	orr	orrb	or.l.b	ol.r	44	41	•	3	trace	<0800	22·00	•
Castlebay	opc	cop	op	op	46	44	•	1	3	–	•	0·8
Nairn	bcqc	cbc	bcxq	q/cq	42	38	•	–	•	–	•	2·4
Aberdeen	oirqo	bclm	oirq	bcxrq	43	40	35	3	4	0900	<21·00	0·1
Malin Head	bcv	bpr.bc	c.ol.ir	c.oR	42	34	•	trace	4	15.30	<21·00	3·8
Renfrew	amir.bc	bbcpbm	b.bc.o	orr.oq	44	36	32	0·3	4	<0800	01·30	1·8
Edinburgh (Inchkeith)	rrm	bp	bcp	bcp	44	39	32	0·3	0·2	–	05·30	2·8
Leuchars	cor	oo	bc.cr.cq	c	43	36	29	0·4	trace	<0800	<21·00	2·8
Eskdalemuir	oprs.o	oprhsrlm	c.irsrbq	a.irq	38	33	32	4	8	0900	<21·00	0·0
Tynemouth	r.o.if	bclf	bcp.m	b.bcm	41	34	33	0·3	trace	<0800	<21·00	•
Blacksod Point							•					•
Donaghadee	bc	bc	oqrr	r.re	45	43	•	–	2	–	24·00	•
Birr Castle												
Holyhead	cbcjp	orRhrcir	cRH. lo	bc.oir	49	42	39	?	1	12.30	<21·00	2·4
Liverpool (Bidston)	bcqo	lfrp	l.or.p		46	34	32	2	1	09.00	<21·00	3·4
Chester (Shotwick)	bortmb	ofmilbcpr	c.oqm	c.orr.om	48	34	32	3	0·2	11.00	04·30	•
Spurn Head	bbc	bb-bc	b.bc	od.bc.o	46	39	•	0·3	trace	<0800	24·00	4·0
Nottingham	bbcff	c	r.op	p	49	38	35	–	trace	–	22·00	2·6
Cranwell	cmbm	b-bc	bc.c.o	oo	48	35	32	–	–	–	•	5·0
Gorleston	orqbc	bme	bm.c.oq	orq.cq	48	40	36	0·4	3	<0800	24·00	2·0
Valencia (Cahirciveen)	ophc	oprh	pq					1		<0800		
Roches Point							•					•
Pembroke (St. Ann's H.)	c	c	cqprh	cqpr	50	42	•	1	3	<0800	<21·00	2·4
Ross-on-Wye	bcbbc	bcqp.bq	R.id	cc.orr	50	39	35	0·2	6	15.30	<21·00	3·8
Benson	bccbc	c	r.r.o	r.r.bc	50	34	34	–	1	–	<21·00	•
Andover	bcqpc	pbcc	c.or.r	or.rac.bc	51	36	31	trace	3	11.00	<21·00	2·9
S. Farnborough	ocprm	cocbm	or.r.cb	bc.qrr	49	38	30	0·1	5	–	<21·00	2·1
London (Kew Obsy.)	bcfamcm	bmbc	b.o.bc.r.o	o.b.b	49	40	34	trace	4	11.00	22·00	1·6
Croydon	obcgm	obm	c.omr.bc	bc.b	49	39	34	0·1	2	<0800	<21·00	1·0
Clacton-on-Sea	oqmf	ogbm	bcm.b	b.orc.bc	46	41	38	–	4	–	01·30	0·0
Shoeburyness	oqffro	cirmbcm	bm.bc.c	oRrc.bc	50	39	36	0·2	4	<0800	•	0·0
Grain	oirc	omcbm	b.b.R.r	op.c	49	40	32	0·2	4	<0800	22·00	0·0
Lympne	ofmro	ofmcbc	b.bc.c.o	b.cpr	49	39	34	0·3	4	12.30	04·30	0·0
Scilly (St. Mary's)	bcp	coqph	cqph	bc.cqp	51	42	•	3	2	0900	<21·00	1·6
Falmouth (Pendennis)	ocpc	copq	bcqp	bcp	50	40	•	1	6	12.30	<21·00	2·6
Plymouth (Cattewater)	bccr	ocp	bc.cr.r	bc.cr.r	51	42	38	1	4	<0800	<21·00	3·2
Portland Bill	cbc	bcc	or.cqp	cqp.c	52	41	•	–	4	–	03·30	•
Southampton (Calshot)	irbc	cpl	bcfRrbc	b	50	42	39	0·2	5	11.00	<21·00	1·3
Dungeness	courr	rd	oqiR	qrc	49	43	•	1	4	11.00	22·00	•
Jersey	odoo	oco	olqp	oqp	52	42		0·3	4	0900	22·00	0·0

ISALLOBARS.

19th Dec.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
2	18th 1000	Cambria	S	5	bc	46	50	5
3	19th 0300	–	wsw	6	cobl	45	46	5

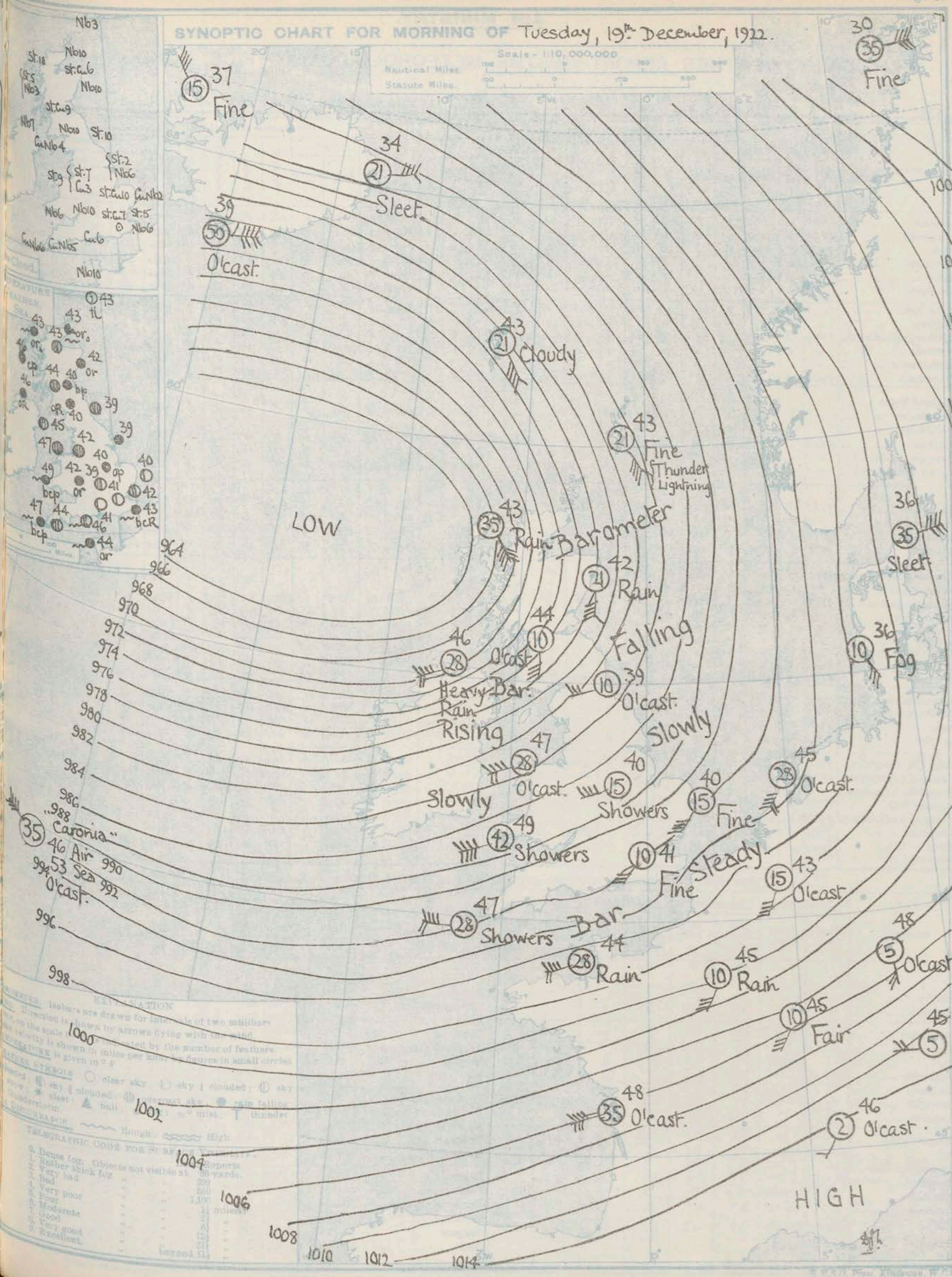
GENERAL INFERENCE.

The large depression centred off the Hebrides will continue to move slowly northeastward and weather will remain unsettled with thunderstorms locally especially in the North. The strong wind current from between S and W will reach gale force in exposed places.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Tuesday 19th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind S.W. to W strong at times; mainly fair but some showers; visibility good; moderate temperature.	Changeable weather generally.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 12. N.W. England	Wind westerly strong to a gale, moderating gradually; variable sky, some showers; visibility good; rather colder.	
8. N. Midlands 11. N.E. England 13. E. Scotland 14. S.W. Scotland 15. Isle of Man 16. N. & N.W. Scotland	Wind mainly S.W. strong at times; cloudy, some showers thunder locally; visibility mainly good; moderate temperature.	South cone hoisted at 1430 17th 2015 17th 1515 18th 0230 19th
18. Hebrides 19. Orkneys and Shetlands 17. N.W. Ireland	Wind S.E. veering S.W. strong to a gale, moderating; rainy, thunder locally, fairer later; visibility moderate to good; moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As for 4 - 8.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920 GMT. G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page


SYNOPTIC CHART FOR MORNING OF Tuesday, 19th December, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
37
Fine
34
Sleet
39
O'cast.
43
Cloudy
43
Fine
Thunder
Lightning
43
Rain
Barometer
42
Rain
Falling
46
Heavy Rain
O'cast
Bar.
Rising
39
O'cast.
Slowly
47
O'cast.
Slowly
40
Showers
40
Fine
45
O'cast.
49
Showers
41
Fine
Steady
43
O'cast
47
Showers
Bar
44
Rain
45
Rain
45
Fair
48
O'cast.
45
48
O'cast.
46
O'cast.
35
Caronia
46 Air 990
53 Sea 992
O'cast.
LOW
HIGH
30
Fine
36
Sleet
36
Fog
1008
1006
1004
1002
964
966
968
970
972
974
976
978
980
982
984
986
988
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. Tuesday, 19th December 1922. No. 353

Observations at 0100 G.M.T. 19th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	984.5	0	SE	6	0	41	92	Y	-	-	0	A St	10	*
Stornoway	972.4	-4	SSW	6	r+	*	*	4	*	*	*	*	*	*
Wick	978.4	-2	SSE	8	b	42	92	8	-	-	0	-	0	*
Castlebay	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	966.9	-3	S	8	or	42	94	Y	5400	Nb	5	A St	9	*
Renfrew	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	979.1	-5	SSW	3	b/pr	41	85	8	*	Cu Nb	3	-	3	*
Leuchars	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	985.6	-3	SW	2	b	39	92	6	-	-	0	A St	2	*
Blacksod Point ...														*
Donaghadee	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	981.8	-2	SSW	6	b+	46	85	9	-	-	0	A St	3	*
Liverpool (Bidston) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Shotwick) ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	988.8	-2	S	4	bc+	41	94	Y	2500	St	6	-	6	*
Nottingham	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	989.5	-2	S	3	o+	40	92	Y	4000	St Cu	10	-	10	*
Gorleston	993.3	-1	SW	5	or+	44	92	Y	4000	Nb	10	-	10	*
Valencia (Cahirciveen)	980.0	+3	W	Y	bcPH	48	94	Y	*	Cu	4	-	4	*
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	985.9	-1	WSW	8	bcPH	45	95	8	1500	Nb	6	-	6	*
Ross-on-Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Andover	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.) ...	*	*	*	*	*	43	*	*	*	*	*	*	*	*
Croydon	992.8	-3	SSW	4	bc/r	42	92	Y	2500	St Cu	4	-	4	*
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Grain	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	993.0	-3	SW	6	o	43	94	Y	1500	St	10	-	10	*
Scilly (St. Mary's) ...	990.5	0	W'S	5	bc+	51	95	Y	2500	Cu Nb	5	-	5	*
Falmouth (Pendennis)	991.3	0	SW	6	bcPH	45	95	6	4000	Cu Nb	4	-	4	*
Plymouth (Cattewater)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	990.6	-5	WSW	6	bepr	45	85	Y	-	-	0	Ci Cu	4	*
Southampton (Calshot)	992.4	-2	WSW	5	b/r	45	85	8	-	-	0	-	0	*
Dungeness	993.9	-3	SW	6	oR	46	92	Y	4000	Nb	10	-	10	*
Jersey 7h }	995.4	0	SW	6	obl	44	85	6	5400	Nb	10	-	10	*
Guernsey 1h }														

Observations at 0700 G.M.T. 19th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	983.4	0	SE	6	bbl	43	95	4	4000	Nb	3	-	3	5
Stornoway	962.9	-5	SSE	4	or	43	92	5	1450	St	10	-	10	6
Wick	975.0	-5	SSE	9	or	43	94	4	1500	Nb	10	-	10	6
Castlebay	963.6	-1	SW	4	cpr	44	85	6	1500	St	8	-	8	*
Nairn	971.4	*	SSE	3	bc	43	95	8	4000	St Cu	6	-	6	*
Aberdeen	974.8	-3	S	5	or	42	92	6	1500	Nb	10	-	10	4
Malin Head	969.1	+3	SW	6	oR	41	92	4	5400	Nb	4	A St	10	*
Renfrew	975.1	0	S	3	ofr	44	85	4	2500	St Cu	9	-	9	*
Edinburgh (Inchkeith)	975.3	-2	SSW	4	bpr	40	85	8	*	St	2	-	2	4
Leuchars	976.5	-2	ESE	5	bc	40	85	4	2500	St Cu	6	-	6	*
Eskdalemuir	978.2	-1	S	4	oR	40	94	6	800	Nb	10	-	10	2
Tynemouth	983.4	-2	SW	3	o	39	92	6	2500	St	10	-	10	*
Blacksod Point ...														*
Donaghadee	974.4	+2	SW	3	c+	45	95	8	4000	Cu Nb	4	A Cu	8	3
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	981.9	+3	SW	6	o	44	85	8	1500	St	9	-	9	5
Liverpool (Bidston) ...	983.4	-1	SW	4	ofr	42	92	4	2500	St	10	-	10	4
Chester (Shotwick) ...	983.8	0	SSW	4	ofr	44	85	6	2500	Nb	6	A St	10	*
Spurn Head	986.1	-2	S	5	cjp	39	92	4	1500	Nb	8	-	8	4
Nottingham	986.8	*	SW	4	bpr	40	92	6	1500	St Cu	10	-	10	*
Cranwell	984.4	-2	SSW	4	o	39	92	4	2500	St	9	-	9	*
Gorleston	992.0	-1	SSW	4	b/r	40	92	4	4000	Cu Nb	2	-	2	2
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	986.4	+3	WSW	5	bbpr	49	95	8	2500	Nb	6	-	6	6
Ross-on-Wye	988.8	-1	SW	4	bre	42	85	8	2500	Nb	10	-	10	*
Benson	990.1	-1	SW	4	c+	39	92	8	*	St Cu	4	-	4	*
Andover	991.9	-1	SSW	4	c+	39	94	8	1500	St Cu	1	A St	2	*
S. Farnborough ...	992.6	-1	S'W	4	b+	44	85	8	-	-	0	Ci	2	*
London (Kew Obsy.) ...	991.6	0	SSW	3	b	41	85	4	-	-	0	A St	3	*
Croydon	992.4	-1	SSW	4	b-	40	85	4	2500	St Cu	3	-	3	2
Clacton-on-Sea ...	992.2	0	SW	4	bc	42	85	4	2500	St	5	-	4	*
Shoeburyness	992.5	0	SW	6	bcfr	40	85	4	4000	Cu	4	-	6	3
Grain	993.0	0	SSW	5	bc	41	85	4	4000	St	6	-	4	*
Lympne	993.8	0	WSW	4	cfr	41	92	8	1500	Cu Nb	6	A Cu		
Scilly (St. Mary's) ...	991.6	+2	W	6	bcpr	44	65	8	4000	Cu Nb	6	-	6	4
Falmouth (Pendennis)	992.3	+2	W	4	bcfb	44	85	4	4000	Cu Nb	5	-	5	6
Plymouth (Cattewater)	992.5	+3	SW	6	ofr	44	85	8	800	Nb	10	-	10	6
Portland Bill	991.8	+2	WSW	4	bcfr	46	95	4	800	Cu	6	-	6	0
Southampton (Calshot)	992.3	-1	WSW	4	b	43	85	8	2500	Cu Nb	1	Ci	3	4
Dungeness	993.8	-1	WSW	4	beR	43	94	8	4000	Nb	6	-	6	6
Jersey 7h }	996.5	0	WSW	6	or	44	85	4	1500	Nb	10	-	10	*
Guernsey 1h }														

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

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 14h.-18h. °F.	Temperature. Max. Day. 18h. °F.	Rainfall.† Night 17h.-9h. 14h.-18h. mm.	Rainfall.† Day 9h.-17h. 18h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 18h. hr.
Banff								
Montrose	*	*	39	43	3	1	0.3	2.9
Llandudno	bcp.c	rctlp	35	48	3	6		2.9
Colwyn Bay ...	bc	pl	38	46	3	4		0.0
Rhyl	bc	t.bc	36	47	3	3		3.3
Southport	bcor	cohr	35	45	7	2		2.4
Blackpool	or	cora	35	47	8	1		1.3
Harrogate	c	corbe	31	41	10	2		0.9
Skegness	rofcb	b	36	47	2	-		3.5
Aberystwyth	rc.c	b	41	48	1	-		3.2
Bath	mbcb	bbcc	38	51	4	-		2.7
Leamington Spa ...	c	cbc	37	49	3	-		3.9
Lowestoft	ofoc	cbm	35	46	4	-		1.0
Felixstowe	f	fcmbm	37	47	3	-		0.0
Southend	co	bfbc	37	47	4	0.1		0.0
Ilkley	fofr	orutr	36	42	10	4		0.1

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 14h.-18h. °F.	Temperature. Max. Day. 18h. °F.	Rainfall.† Night 17h.-9h. 14h.-18h. mm.	Rainfall.† Day 9h.-17h. 18h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 18h. hr.
Paignton	bcpq	bchbc	46	54	1	3		3.9
Ilfracombe	bcco	orhtl	41	51	3	2		2.5
Bude	bcpm	cptlrh	40	51	7	3		2.1
Penzance	cbc	bccpr	48	51	3	1		1.9
Falmouth Observatory	bcp	bcco	46	50	3	1		3.0
Torquay	bc	o	45	53	6	-		4.3
Weymouth	cpbc	ecoc	43	52	3	0A		1.6
Bournemouth ...	bc	bc	41	51	2	-		2.0
Portsmouth (S'thsea)	cb	cb	42	50	-	6		1.3
Worthing	o	obc	42	49	4	-		0.1
Brighton	or	o	42	49	4	0.2		0.0
Eastbourne	ro	cbc	42	51	5	2		0.0
Hastings	odo	orbc	41	50	4	1		0.0
Folkestone	r	o	40	47	4	0.5		0.0
Tunbridge Wells ...	oop	oc	39	50	3	0.3		0.1
Ramsgate	o	o	37	49	3	0.2		0.0
Margate	o	o	38	51	3	-		0.0
Deal	ro	cpc	39	50	3	0.3		0.0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22,308 WEDNESDAY, 20th DECEMBER, 1922.

STATIONS.	Observations at 1300 G.M.T. 19th: 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	State of ground.	Observations at 1800 G.M.T. 19th: Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	981·7	-0	SSE	7	ohr	43	85	6	2500	Nb	7	A St	10	*	983·0	+2	SSE	7	or₀	43	85	6	2500	Nb	10	-	10	6
Stornoway	966·9	+1	SW	4	cPR-	45	85	6	4000	Nb	8	-	8	*	972·6	+6	SW	3	bc-	45	85	6	4000	Cu	4	-	4	2
Wick	974·3	+1	SSE	9	o/r	45	97	7	450	StCu	4	A St	10	*	977·1	+6	SSE	5	c-	45	97	8	450	Nb	10	-	10	6
Castlebay	976·6	+5	SW	6	o/r	49	75	6	1500	St	7	-	7	*	974·7	+4	SW	5	bc/h	45	85	6	1500	Nb	5	-	5	6
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	977·3	*	SSE	1	bc	43	75	8	1500	St	4	-	4	*
Aberdeen	978·1	0	S	2	or₀	45	85	6	1500	Nb	10	-	10	1	980·2	+4	SSW	3	b-	44	85	6	-	-	0	-	0	1
Malin Head	975·5	+5	WSW	7	cPR	45	92	7	2500	St	8	-	8	*	978·3	+3	SW	5	bc/r	41	92	7	2500	St	3	ACu	4	4
Renfrew	978·3	+4	SW	4	o/p	45	85	7	2500	Nb	10	-	10	2	981·7	+4	SW	3	o/r	44	85	6	2500	StCu	9	-	9	*
Edinburgh (Inchkeith)	978·3	+2	WSW	5	opr₀	45	85	7	-	Cu	9	-	9	*	981·2	+3	SW	4	b-	44	75	8	-	-	0	-	0	4
Leuchars	978·2	+2	SSW	4	o/r	45	85	7	1500	StCu	10	-	10	2	981·4	+5	SSW	4	c-	43	85	8	2500	StCu	7	-	7	*
Eskdalemuir	980·6	+4	SWW	6	o/r	42	85	7	1500	St	10	-	10	2	984·3	+4	SW'S	3	o	40	85	6	1500	StCu	9	-	9	*
Tynemouth	983·6	+1	SW	3	o-	45	85	6	4000	Nb	9	-	9	*	985·4	+3	SW	3	b	42	65	6	-	-	0	-	0	2
Blacksod Point														*														
Donaghadee	981·4	+3	WSW	3	b-	46	75	8	-	-	0	CiCu	3	*	984·2	+1	W	2	b-	41	85	8	-	-	0	-	0	1
Birr Castle	983·7	*	SW	2	c/r	43	?	8	4000	Cu	8		8	*	984·1	*	S	2	bc-	37	?	6	4000	Cu	6	-	6	*
Holyhead	985·5	+1	SWW	5	c	48	75	8	2500	Cu	4	ACu	7	2	986·7	+1	SW	3	b-	44	75	8	2500	Cu	3	-	3	4
Liverpool (Bidston)	986·5	+2	SW'S	3	c+	46	75	6	1500	Nb	8	-	8	*	987·7	+2	SSW	5	o/r	41	85	8	1500	CuNb	10	-	10	6
Chester (Shotwick)	987·3	+2	SE	3	opr₀	48	75	7	2500	St	9	-	9	2	988·6	+1	SW	3	cr₀	41	92	8	1500	Nb	7	-	7	*
Spurn Head	987·2	+1	S	4	bc	45	85	6	-	-	0	Ci	4	*	989·0	+2	S	4	b	42	85	7	1500	St	2	-	2	4
Nottingham	988·4	*	SW	4	c	46	85	7	-	-	0	Ci	7	*	990·2	*	SW	4	b-	42	85	7	-	-	0	-	0	*
Cranwell	989·2	0	SW	4	b-	45	85	6	-	-	0	Cu	2	0	991·0	+2	S'W	4	bc+	40	85	6	2500	StCu	4	ASt	5	
Gorleston	992·4	0	SW	4	o+	44	85	6	4000	StCu	9	-	9	*	995·5	+1	SSW	3	b-	41	92	6	-	-	0	-	0	1
Valencia (Cahirciveen)	986·1	-1	SW'W	5	c-	45	75	8	2500	StCu	5	ACu	7	2	985·3	-1	S'W	4	b-	42	85	8	2500	StCu	2	-	2	6
Roches Point														*														
Pembroke (St. Ann's H.)	989·1	+1	SW'W	6	c/p	47	85	8	2500	Nb	4	Ci	7	*	989·3	+0	SW'W	6	bcPH	45	75	8	2500	Nb	6	-	6	6
Ross-on-Wye	989·8	+1	SW	4	bc/p	45	65	8	4000	CuNb	3	Ci	5	2	991·8	+2	SW	3	b	39	85	8	2500	Nb	2	-	2	*
Benson	992·5	+3	SW	5	bc	47	75	9	-	Cu	2	Ci	3	1	993·7	+1	SW	3	b-	40	85	9	-	-	0	-	0	*
Andover	993·7	+1	SSW	4	bc	45	92	8	-	-	0	Ci	6	1	994·1	+1	S	3	b/r	38	92	8	2500	StCu	2	-	2	*
S. Farnborough	993·9	+3	WSW	6	bc+	48	75	8	4000	Cu	4	Ci	5	2	994·5	+2	SW	3	b-	41	92	8	-	StCu	3	-	3	*
London (Kew Obsy.)	993·8	+1	WSW	3	bc-	48	75	6	2500	Cu	1	ACu	6	1	994·8	+2	SW	2	b	43	75	6	-	-	0	ACu	1	*
Croydon	994·2	+2	SW	4	c+	48	75	7	2500	Cu	3	Ci-	8	2	995·3	+2	S	3	b/r	41	92	6	2500	StCu	1	Ci	2	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	994·9	+2	SSW	4	bc	44	85	7	2500	Cu	4	-	4	2
Shoeburyness	993·8	+1	SW	5	c	46	75	7	7200	Cu	4	ASt	7	*	995·0	+1	SW	6	b/r	43	75	7	4000	StCu	1	-	1	*
Grain	994·5	+2	SSW	4	b	48	75	8	4000	Cu	2	-	2	2	996·1	+3	SSW	4	b/r	42	85	8	4000	CuNb	1	-	1	3
Lympne	995·1	+1	W'S	4	c	43	85	8	1500	St	2	ASt	8	2	997·2	+3	SW	4	oPR-	42	85	8	1500	CuNb	8	ASt	9	*
Scilly (St. Mary's)	993·1	0	WSW	6	bc	48	65	8	4000	Cu	5	-	5	*	992·2	-1	WSW	4	bc	48	75	8	4000	Cu	5	-	5	6
Falmouth (Pendennis)	993·2	-1	W	7	c+	47	75	8	4000	CuNb	7	-	7	*	993·3	0	WSW	5	o	47	85	7	4000	Cu	9	-	9	3
Plymouth (Cattewater)	993·9	0	WSW	6	o/p	48	65	8	2500	CuNb	9	-	9	1	992·7	-2	SW	5	c/r	48	75	8	2500	CuNb	8	-	8	4
Portland Bill	993·0	+2	WSW	7	bc	48	75	7	800	Cu	6	-	6	*	993·0	0	WSW	7	b-	48	75	7	-	-	0	CiCu	2	6
Southampton (Calshot)	994·4	0	SW	5	b-	49	75	8	4000	CuNb	2	-	2	*	995·1	+1	WSW	4	bcPR	44	85	8	2500	CuNb	5	-	5	3
Dungeness	995·0	+2	WSW	5	c-	46	92	8	4000	Nb	2	ACu	7	*	997·1	+2	WSW	5	b-	42	97	8	4000	Nb	3	-	3	5
Jersey 7h / Guernsey 1h	998·6	0	SW	5	bo/r	49	75	7	4000	StCu	3	ACu	4	*	997·1	0	SSW	5	bc	49	75	7	4000	StCu	4	-	4	6

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 20th								YESTERDAY.		TO-DAY.
Kew											
Croydon } 24 hours ended 0700	bobcz	bczbz	bmpar	*	*	35	-	7	3·2	*	*
Greenwich (Royal Obsy.)	bombcc	copbq	ompkr	*	*	34	0·3	13	2·9	*	*
City (Bunhill Row)	cbc	bc.b.p	bopr	49	39	32	-	8	3·1	74	87
Westminster (St. James' Pk.)	*	*	*	*	*	*	*	*	0·1	*	*
Regent's Pk. (Botanic Gdns.)	*	*	*	51	42	35	8		2·6	71	87
Camden Square	*	*	*	*	*	*	*	*	3·1	*	*
Kensington Palace			*	48	42	36	-	7	*	*	87
Hampstead Observatory	bbc	bc p	*	49	41	32	0·2	7	*	80 (18th)	84
	*	*	*	48	39	30	0·3	7	3·2	*	85

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 19th

South Kensington

Max.	Time.	Min.	Time.
0·6	18th 19h	<0·3	19th 1-4h
0·6	19th 10h		

Kew Observatory

Max.	Time.	Min.	Time.
0·6	18th 18h	<0·3	19th 1-2h
0·6	19th 9h		

POLE STAR RECORD at Greenwich Obsy.

Exposure from 19th 16h 45m. to 20th 7h 0m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14 15	4.12	30
δ Ursae Minoris	14 15	3.46	26

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 today in 1300 & 1800 reports (Hoar frost in 0900 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	—	—	—	—
18h.	—	—	—	—
01h.	—	—	—	—
07h.	—	—	—	—

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

20th & 21st DECEMBER 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·4 / 8·4	11·51 / 11·51	3·35 / 3·38
Greenwich	8·5 / 8·5	11·58 / 11·58	3·51 / 3·51
Wick	9·3 / 9·3	12·10 / 12·10	3·14 / 3·14
Valencia	8·49 / 8·49	12·39 / 12·39	4·29 / 4·29

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
p precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

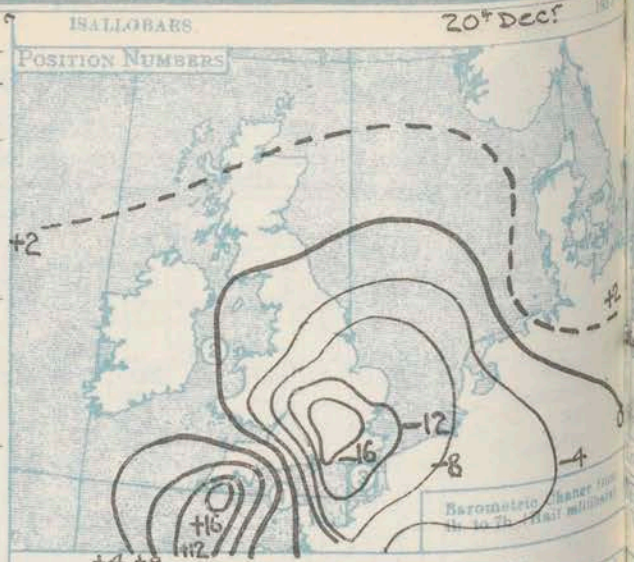
SEA DISTURBANCE.
0 = no swell } Calm or slight sea.
1 = mod. swell } Calm or slight sea.
2 = heavy swell } Calm or slight sea.
3 = no swell } Moderate sea.
4 = mod. swell } Moderate sea.
5 = heavy swell } Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 19th	13h.-18h. 19th	18h. 19th to 1h. 20th	1h.-7h. 20th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 19th Hours.
Lerwick	omqrh	omqr	omr	bc	44	40	•	2	1	<0800	<2100	0.0
Stornoway	p	p	p	bcp	46	41	•	8	3	<0800	-	0.0
Wick	olrq	r-d	b.bc	b.bc	45	39	•	1	-	<0800	-	•
Castlebay	opc	chpbc	rs.bco	obco	49	43	•	1	2	-	-	0.8
Nairn	cgq	cdbc	cbc	bcx	46	33	•	0.2	-	17.30	-	0.5
Aberdeen	ocr	troob	bm	bccmx	45	34	26	2	-	<0800	-	0.0
Malin Head	coPr	coPR	bcv	bcvx	47	34		3	0.2	<0800	<2100	1.7
Renfrew	omrrq	oop	obcp.b	bcbmx	46	32	26	3	0.5	<0800	<2100	0.0
Edinburgh (Inchkeith)	b p	pb	b	b	46	38	30	0.3	-	-	-	0.8
Leuchars	bcorro	oo	ebc	bbcx	45	32	15	2	trace	<0800	-	0.0
Eskdalemuir	opr	oroq	ophbc	ophbc	43	33	32	3	3	-	2200	0.0
Tynemouth	oom	cmm	bm	bm	46	33	29	-	-	-	-	•
Blacksod Point ...												•
Donaghadee	c	b-bc	b	b	47	30	•	-	-	-	-	•
Birr Castle ...	cro c	co	co	cox	44	30	23	0.1	-	12.30	-	•
Holyhead	oclcc	cbcc	bbcv	bcco	48	40	38	-	-	-	-	2.6
Liverpool (Bidston) ...	o bc	ocr	bcod		47	35	31	1	0.3	15.30	0630	1.5
Chester (Shotwick) ...	o o	opRr.orr	cbc	bcorrp	50	35	30	3	4	11.00	0530	•
Spurn Head	orbc	b-bc	b.bc	boprq	45	36	•	0.4	3	<0800	0430	2.5
Nottingham	p	b-bc	b	RR	47	34	28	0.4	12	<0800	0230	1.4
Cranwell	ocbc	bbc	b.b	bcor	46	32	30	trace	7	<0800	0330	3.4
Gorleston	bcc	cb	b.bcc	oqrr	46	38	34	-	2	-	0430	0.0
Valencia (Cahirciveen)	aphc	cpb	bop.b	bcp	46	39	34	4	1	<0800	<2100	0.8
Roches Point												•
Pembroke (St. Ann's H.)	cqphr	cqphr	r-d	oRr	49	39	•	2	9	<0800	<2100	1.6
Ross-on-Wye	rcdpcbcbcgrcpb		bcbbco	oRqRS	47	33	32	3	27	<0800	0230	1.9
Benson...	cbcb	b	bbccr	rRr	48	37	32	trace	14	-	2400	•
Andover	cbc c	cPR bc	bccoorr	orr	48	36	30	1	15	16.30	<2100	3.6
S. Farnborough ...	oloq bc	bcprqcb	borr	oiR	48	39	?	0.2	13	13.30	<2100	3.4
London (Kew Obsy.) ...	bobcz	bozbz	bmobom	omomqr	48	40	35	-	7	-	2200	3.2
Croydon	bambcc	copgbcpr	bomprr	omRr	48	39	34	0.3	13	15.30	<2100	2.9
Clacton-on-Sea ...	bcc	cbc	bc bc	bcogmr	45	41	39	-	3	-	0330	1.3
Shoeburyness	rcc	cbcprob	b.bcc	oRrqr	48	38	36	0.1	6	17.30	-	2.8
Grain	bccoc	cbcdpqbb	b.bcco	oroqd	48	40	34	0.1	8	16.30	0130	2.0
Lympne	cbcopr	copr.prPR	r-d	orrm	45	39	34	1	14	11.00	<2100	0.9
Scilly (St. Mary's) ...	cbcpq	bcpq	orrq	cq	49	40	•	0.2	25	<0800	<2100	3.3
Falmouth (Pendennis)	bc cq	cqpo	omqr	omrbc	48	39	•	0.6	31	<0800	<2100	3.9
Plymouth (Cattewater)	bc cp	cpr	bcctr	bccrr	49	36	36	2	41	<0800	<2100	3.2
Portland Bill	c	bcqp	cqor	oqr	51	40	•	1	11	14.30	<2100	•
Southampton (Calshot)	cpqbc	bdcpq	bcirrs.r	orrdd	49	43	39	1	14	14.30	<2100	3.2
Dungeness	q	p	oq				•	4		<0800		•
Jersey	aqpb	b	bqp	boqp	49	47	•	1	4	0900	2200	3.7



Observations from Cross Channel Steamers.

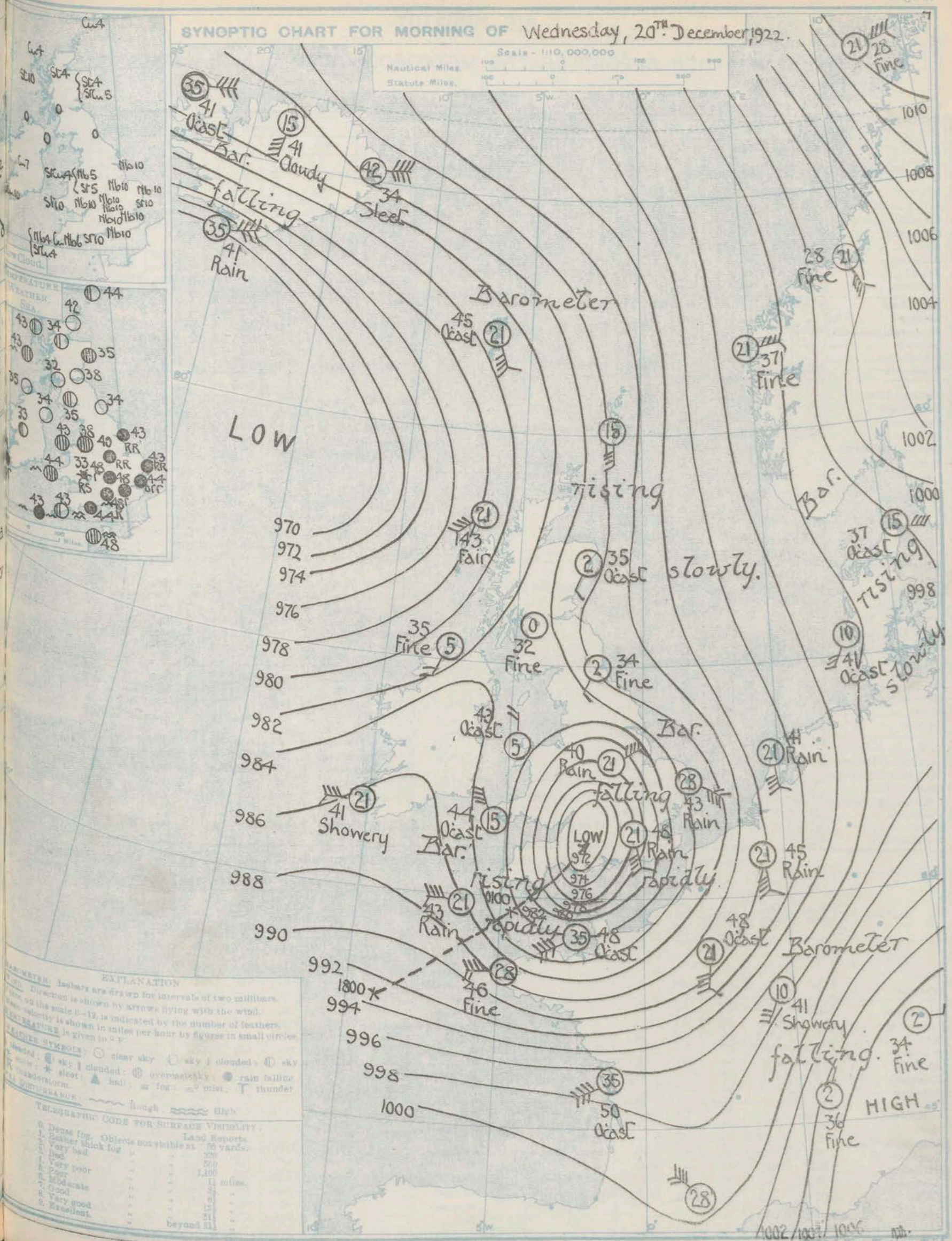
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	
2	19th 1000	Cambria	SSW	6	b	47	50	8
1	" 1300	Ibex	W	7	R	50	52	8
3	20th 0300	?	S	5	RR	48	49	5

GENERAL INFERENCE.

A small depression of great intensity now centred over Hampshire, will move northeastward causing heavy rain and gales in the East and Southeast followed by fairer weather temporarily. The large depression centred near Iceland will maintain changeable weather with winds mainly between South and West.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Wednesday, 20th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Southeasterly gale changing to N or NW and moderating; rainy, squally, probably some sleet, fairer later; rather mild then colder, frost locally at night.	Continuing unsettled.
4. W. Midlands 5. S.W. England 6. South Wales	Strong N wind backing W and moderating; mainly fair but some showers; cold, frost in places.	------
7. North Wales 8. N.W. England	Strong northerly wind backing W or SW later; some rain or sleet then fairer; visibility mainly good; cold.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind W backing N strong to a gale; rainy, visibility good; cold.	
12. S.W. Scotland 13. Isle of Man	Variable wind becoming southwesterly moderate; cloudy, some showers; visibility moderate; rather cold.	South cone still flying.
14. N.&N.W. Scotland 15. Hebrides 16. Orknays and Shetlands	Wind mainly southwest moderate or fresh; mainly fair at first some rain later; visibility good; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S.W. moderate or fresh; variable sky some showers; visibility good; milder.	

E9.15


SYNOPTIC CHART FOR MORNING OF Wednesday, 20th December, 1922.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer falling
Bar. falling
Bar. rising
Barometer rising slowly.
Bar. falling rapidly
Bar. rising rapidly
Barometer falling.
HIGH
970
972
974
976
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
35 41 Ocast
15 41 Cloudy
42 34 Sleet
35 41 Rain
45 Ocast
21 37 Fine
21 28 Fine
21 28 Fine
21 43 Fair
2 35 Ocast
0 32 Fine
2 34 Fine
5 35 Fine
5 43 Ocast
5 40 Rain
21 41 Rain
28 43 Rain
21 48 Rain
21 45 Rain
21 41 Showery
15 44 Ocast
21 43 Rain
35 48 Ocast
21 48 Ocast
28 46 Fine
10 41 Showery
2 34 Fine
35 50 Ocast
2 36 Fine
28
15 37 Ocast
10 41 Ocast
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Wind velocity, on the scale 0–12, is indicated by the number of feathers.
TEMPERATURE is given in °F.
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: Rough; High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
Land Reports.
0. Dense fog. Objects not visible at 50 yards.
1. Rather thick fog " " 200
2. Very bad " " 500
3. Bad " " 1,100
4. Very poor " " 1½ miles.
5. Poor " " 2
6. Moderate " " 4
7. Good " " 7
8. Very good " " 11
9. Excellent. " " 31
beyond 31 "

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. WEDNESDAY, 20th DECEMBER 1922. No. 354

Observations at 0100 G.M.T. 20th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	984.3	+1	SSE	6	or.	43	92	6	4000	Nb	10	-	10	•
Stornoway	978.0	+3	SW	4	PR	•	•	5	•	•	•	•	•	•
Wick	981.0	+4	SW	4	b	40	97	9	-	-	0	-	0	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	979.8	+1	S	5	b	37	97	8	2500	Sr	2	-	2	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	984.2	+3	S	1	b	40	85	8	-	-	0	-	0	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	986.5	0	SSW	1	b	38	92	5	-	-	0	-	0	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	984.3	-2	SE'E	3	bc+	44	75	9	4000	StCu	3	A.Sr	4	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	989.6	0	SSE	3	b	36	97	7	-	-	0	-	0	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	989.1	+1	S'E	3	b	32	97	7	-	-	0	-	0	•
Gorleston	994.6	0	S'W	3	c+	39	92	8	4000	Sr	8	-	8	•
Valencia (Cahirciveen)	984.8	-2	SW	5	bcph	44	?	7	-	CuNb	5	-	5	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	984.7	-5	ENE	3	or.	42	97	7	2500	Nb	10	-	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	46	•	•	•	•	•	•	•	•
Croydon	989.8	-8	SE'S	4	or.	45	92	6	1500	Sr	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	992.6	-6	S	5	orr	43	97	6	450	Nb	10	-	10	•
Scilly (St. Mary's) ...	980.1	-10	N'E	5	ORR	43	92	7	4000	Nb	10	-	10	•
Falmouth (Pendennis)	978.1	-12	ENE	6	orr	46	97	5	2500	Nb	10	-	10	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	983.9	-13	SE	7	ORR	45	85	7	450	Sr	10	-	10	•
Southampton (Calshot)	987.4	-10	SSE	6	orr	46	97	7	800	Nb	10	-	10	•
Dungeness	991.9	-4	S	5	o	46	92	7	-	-	0	A.Sr	10	•
Jersey (7h)	981.9	-17	S	8	OR-	47	97	5	4000	Nb	10	-	10	•
Guernsey (1h)														

Observations at 0700 G.M.T. 20th

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	986.5	+3	S	4	bc	44	85	7	4000	Cu	4	-	4	3
Stornoway	979.8	+3	SW	5	bc	43	85	7	4000	Cu	4	-	4	4
Wick	983.2	+3	SSW	4	b	42	92	8	-	-	0	-	0	4
Castlebay	980.3	+2	SSW	5	o	43	85	6	1500	Sr	10	-	10	6
Nairn	983.2	•	-	0	bc-	34	85	8	1500	Sr	4	-	4	•
Aberdeen	985.2	+1	SW	1	o	35	97	5	1500	StCu	9	-	9	1
Malin Head	980.8	+1	SSW	2	b	35	92	8	-	-	0	A.Cu	1	4
Renfrew	982.4	0	-	0	b	32	97	4	-	-	0	-	0	•
Edinburgh (Inchkeith)	984.4	0	SSE	1	b+	38	85	8	-	Sr	1	-	1	•
Leuchars	984.2	0	W	1	b-	37	92	8	4000	StCu	3	-	3	•
Eskdalemuir	984.2	-1	-	0	c+	35	92	7	2500	StCu	7	-	7	•
Tynemouth	986.4	-1	SSW	1	b	34	97	5	-	-	0	-	0	0
Blacksod Point ...	984.0	0	W	1	b-	34	85	8	-	-	0	-	0	0
Donaghadee	984.3	•	SE	1	c+	33	?	6	2500	Cu	7	-	7	•
Birr Castle	982.0	-2	N	2	o	43	85	8	2500	StCu	4	A.Sr	10	•
Holyhead	981.4	-2	ESE	1	o+	38	97	6	800	Nb	10	-	10	•
Liverpool (Bidston) ...	981.2	-5	NW	4	or+	37	97	3	1500	Nb	10	-	10	•
Chester (Shotwick) ...														
Spurn Head	?	-9	E	7	ORR	43	97	6	4000	Nb	10	-	10	6
Nottingham	978.3	•	ENE	5	ORR	40	97	6	1500	Nb	10	-	10	•
Cranwell	979.5	-11	E'S	4	orr	40	97	6	1500	Nb	10	-	10	•
Gorleston	984.4	-6	SE	6	ORR	43	97	5	2500	Nb	10	-	10	6
Valencia (Cahirciveen)	986.0	+1	W	5	opr.	41	75	8	1500	StCu	10	-	10	?
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	982.6	0	NNW	4	o/r	44	75	8	1500	Sr	10	-	10	6
Ross-on-Wye	974.0	-11	N	4	ORS-	33	97	4	800	Nb	10	-	10	•
Benson	972.0	-15	SSE	6	or-	48	92	7	•	Nb	10	-	10	•
Andover	970.6	-17	SSE	6	or.	47	97	5	800	Nb	10	-	10	•
S. Farnborough ...	971.6	-10	S	8	OR	48	92	7	1500	Nb	10	-	10	•
London (Kew Obsy.) ...	974.7	-16	S'E	5	or-	48	92	6	1500	Nb	10	-	10	•
Croydon	974.8	-13	SE'S	5	orr	47	97	6	800	Nb	10	-	10	4
Clacton-on-Sea ...	980.8	-15	SE	5	or.	44	97	4	1500	Sr	10	-	10	•
Shoeburyness	978.6	-18	S	7	orr	47	85	7	800	Cu	8	A.Sr	10	3
Grain	978.6	-16	SSE	7	odd	47	92	8	1500	Nb	10	-	10	•
Lympne	979.2	-12	S	8	o/r	46	85	8	450	StCu	10	-	10	•
Scilly (St. Mary's) ...	986.8	+7	WNW	5	er.	43	92	8	2500	Nb	8	-	8	6
Falmouth (Pendennis)	983.8	+8	NNW	5	bc/r	43	85	8	2500	CuNb	6	-	6	6
Plymouth (Cattewater)	981.9	+16	NW	5	or-	42	85	8	1500	Nb	9	-	9	6
Portland Bill	972.4	+3	WNW	8	OR	44	85	7	450	Sr	10	-	10	6
Southampton (Calshot)	971.2	-18	SSW	7	od-	47	92	7	800	Nb	10	-	10	6
Dungeness														
Jersey (7h)	982.1	+2	WSW	7	o/r	48	75	7	4000	StCu	9	-	9	7
Guernsey (1h)														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19th Dec. 1922

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 18h.-19h. °F.	Temperature. Max. Day. 19h.-19h. °F.	Rainfall.† Night 17h.-9h. 18h.-19h. mm.	Rainfall.† Day 9h.-17h. 19h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 19h. hr.
Banff								2.6
Montrose	*	*	40	45	1	1		0.0
Llandudno	cbc	pcp	37	48	3	1		1.4
Colwyn Bay ...	cbc	cbc	39	47	7	-		1.3
Rhyl	bccm	cbc	39	48	4	0.1		1.5
Southport	cbcc	copc	38	47	1	4		1.2
Blackpool	cpo	cu	39	48	2	0.3		1.2
Harrogate	c	cb	34		2	-		1.0
Skegness	rocbc	bcb	39	47	2	-		2.6
Aberystwyth ...	rcc	o	42	47	3	-		0.5
Bath	bcb	bcb	40	49	1	-		4.5
Leamington Spa ...	cb	bcoro	38	48	-	0.5		3.8
Lowestoft	oc	cbcb	39	46	4	-		1.1
Felixstowe	bcc	bbcb	40	46	4	-		2.0
Southend	bcc	bc	39	48	4	-		2.2
Ilkley	opcbc	c	35	46	3	-		0.0
Paignton	bccpq	bcpbc	41	50	7	1		2.9
Ilfracombe	ohrtl	ochrc	40	49	8	3		0.5
Bude	pbcp	bcpc	41	50	2	5		2.0
Penzance	cbc	bc	40	49	7	0.3		3.2
Falmouth Observatory	bcph	bcphc	40	49	8	1		3.6
Torquay	orprh	bcrpbc	41	50	9	1		2.9
Weymouth	cbcph	pc	43	51	2	2		2.8
Bournemouth ...	bc	bc	41	50	25	0.3		2.9
Portsmouth (S'thsea)	bc	bcp	43	49	4	0.2		3.6
Worthing	cchr	bc	41	48	14	-		1.3
Brighton	bcro	oro	42	48	9	2		1.5
Eastbourne	bccpc	ohpor	43	49	4	3		1.2
Hastings	bcoR	coprh	42	50	4	3		0.0
Folkestone	ir	ir	38	47	4	1		0.0
Tunbridge Wells ...	co	copc	39	48	11	1		1.6
Ramsgate	bc	cbcc	39	46	4	-		1.6
Margate	bbc	c	41	47	3	-		1.2
Deal	rqo	cpcbc	40	47	6	trace		1.4

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22309 THURSDAY 21st DECEMBER 1922.

Observations at 1300 G.M.T. 20

STATIONS.	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	State of ground.
Lerwick	991·0	+5	S	4	bcpr.	43	75	7	-	-	0	A.Cu	6	*
Stornoway	984·2	+4	SW	4	cr	43	85	7	4000	Cu	7	-	7	*
Wick	987·1	+5	SSE	3	b+	43	85	8	4000	Cu	2	A.Cu	3	*
Castlebay	984·5	+3	SW	4	bc+	46	75	8	2500	Cu	4	-	4	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	986·7	+0	W	2	o	37	92	6	2500	St	2	A.St	10	1
Malin Head	984·7	+3	SW	1	b	39	92	8	-	Cu.Nb	2	A.Cu	3	*
Renfrew	986·2	+2	-	0	ffc	34	92	3	-	-	0	Ci	8	2
Edinburgh (Inchkeith)	985·1	+1	ENE	2	mo-	40	92	6	*	St	4	A.St	10	*
Leuchars	985·2	0	-	0	mmo	35	97	5	2500	St.Cu	3	A.St	10	2
Eskdalemuir	984·3	0	N	3	o	35	85	6	4000	St	10	-	10	1
Tynemouth	982·3	-3	E	3	ocr.	43	92	6	4000	Nb	10	-	10	*
Blacksod Point	985·7	+1	NW	1	bc-	37	85	6	4000	Cu	2	Ci.Cu	5	*
Donaghadee	986·5	*	SE	1	c+	39	-	8	4000	Cu	8	-	8	*
Birr Castle	984·0	+3	WNW	5	o-	43	85	8	2500	Cu	5	A.St	9	1
Holyhead	981·5	+1	NW	4	orr	40	92	6	1500	Nb	10	-	10	*
Liverpool (Bidston)	981·1	+1	NW	6	orr	41	85	7	800	Nb	10	-	10	2
Chester (Shotwick)														
Spurn Head	972·4	-3	E	6	OR	44	97	6	2500	Nb	10	-	10	*
Nottingham	974·1	*	WNW	5	orr	38	92	5	1500	Nb	10	-	10	*
Cranwell	971·9	-4	SE	3	c/r	44	97	6	800	St	10	-	10	2
Gorleston	977·0	-6	SSW	6	o	42	92	6	2500	Nb	10	-	10	*
Valencia (Cahireiveen)	991·0	+6	W'N	6	oPH	43	85	7	1500	St	7	A.St	10	2
Roches Point														*
Pembroke (St. Ann's H.)	987·2	+2	WNW	4	c-	45	75	8	4000	Cu	8	-	8	*
Ross-on-Wye	983·9	+8	W'S	4	o	41	75	8	2500	Nb	7	A.St	10	2
Benson	982·5	+6	WNW	6	or.	40	85	8	-	Nb	10	-	10	2
Andover	984·7	+12	W'SW	7	c/r	42	85	8	2500	St.Cu	5	A.Cu	8	1
S. Farnborough	983·9	+15	W'S	5	o/r	41	85	8	1500	St.Cu	10	-	10	2
London (Kew Obsy.)	982·4	+15	W'S	6	o/r	43	75	9	2500	St.Cu	10	-	10	2
Croydon	982·6	+15	WSW	6	o/r	42	75	7	450	St.Cu	10	-	10	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	980·6	+9	SW	7	o/r	42	75	7	2500	Cu	10	-	10	*
Grain	982·2	+11	WSW	7	o	42	75	8	1500	St.Cu	10	-	10	-
Lympne	983·7	+9	WSW	6	o	42	85	8	1500	St.	10	-	10	2
Scilly (St. Mary's)	991·4	+5	WNW	7	oPR	44	75	8	4000	Cu.Nb	9	-	9	*
Falmouth (Pendennis)	990·9	+5	WNW	5	cpho	43	75	8	4000	Cu.Nb	8	-	8	*
Plymouth (Cattewater)	989·5	+7	W	4	cpr.	46	65	8	1500	Cu.Nb	7	-	7	2
Portland Bill	986·2	+10	W	8	bc-	47	75	7	1500	Cu	6	-	6	*
Southampton (Calshot)	986·0	+12	WNW	6	c/r	45	75	8	4000	Cu	6	-	6	2
Dungeness	983·2	·?	WSW	8	c	45	85	8	2500	Cu	5	Ci.Cu	7	*
Jersey	981·4	+3	W	6	bc/r	48	75	7	2500	Cu.Nb	4	-	4	*

Observations at 1800 G.M.T. 20

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	993·6	+3	SSE	3	bcpr.	43	85	7	4000	Nb	4	-	4	2
Stornoway	987·6	+4	S	3	d+	43	85	6	800	St	10	-	10	2
Wick	989·0	+3	ESE	3	bc	44	88	8	4000	Cu	5	-	5	4
Castlebay	988·1	+2	-	0	b/r	43	85	6	2500	Cu	1	-	1	3
Nairn	989·2	*	-	0	bc+	30	85	8	1500	Cu	5	-	5	*
Aberdeen	988·1	+1	WNW	3	o	38	92	6	2500	St	6	A.St	10	1
Malin Head	988·4	+4	SW	2	bc/r	38	97	7	3700	Nb	4	-	4	4
Renfrew	988·3	+2	-	0	b-	35	92	5	-	-	0	Ci.St	3	*
Edinburgh (Inchkeith)	986·1	+1	N	2	o/f	39	92	7	-	-	0	A.St	10	1
Leuchars	986·2	+1	N	2	o	39	92	6	4000	St.Cu	6	A.St	10	*
Eskdalemuir	984·7	+1	N	4	37	37	85	6	1500	St	10	-	10	*
Tynemouth	979·8	-3	NNE	7	orr	44	97	6	2500	Nb	10	-	10	5
Blacksod Point	988·6	+4	W	2	b-	35	92	8	-	-	0	A.Cu	3	1
Donaghadee	992·5	*	WSW	1	bc-	37	?	7	4000	Cu	4	-	4	*
Birr Castle	988·2	+4	NW'W	6	bc-	42	92	8	2500	St.Cu	4	-	4	5
Holyhead	985·2	+3	W'N	5	o/r	41	85	9	1500	Nb	10	-	10	5
Liverpool (Bidston)	985·4	+5	NW	6	o/r	39	92	6	1500	St	10	-	10	*
Chester (Shotwick)														
Spurn Head	973·4	+1	WSW	7	or.r.	37	97	6	4000	Nb	10	-	10	6
Nottingham	983·0	*	WNW	6	orr	37	92	6	1500	Nb	10	-	10	*
Cranwell														
Gorleston	985·0	+7	SW	6	cr.	41	85	7	2500	Nb	8	-	8	6
Valencia (Cahireiveen)	997·8	+8	WNW	6	bc-	44	75	8	2500	St.Cu	5	-	5	6
Roches Point														
Pembroke (St. Ann's H.)	990·9	+4	NW	4	cjp	44	75	8	2500	Nb	8	-	8	5
Ross-on-Wye	989·0	+6	WSW	3	b-	40	75	9	2500	St	2	-	2	*
Benson	989·4	+9	WSW	5	b-	40	92	8	-	-	0	-	0	*
Andover	990·6	+8	SW'W	4	b-	38	92	8	-	-	0	-	0	*
S. Farnborough	990·7	+8	WSW	4	b	38	85	8	-	-	0	-	0	*
London (Kew Obsy.)	990·1	+8	SW	4	b-	41	75	7	-	-	0	-	0	*
Croydon	989·8	+7	SW'W	4	b-	41	75	7	-	-	0	-	0	*
Clacton-on-Sea	987·8	+7	SW	5	b-	43	85	7	-	-	0	-	0	4
Shoeburyness	989·0	+10	WSW	5	b	41	75	7	-	-	0	-	0	*
Grain	989·7	+8	SW	6	b-	41	75	8	-	-	0	-	0	6
Lympne	991·6	+7	WSW	4	b	39	85	8	-	-	0	-	0	*
Scilly (St. Mary's)	995·1	+7	WNW	6	bcpho	46	75	8	4000	Cu.Nb	6	-	6	7
Falmouth (Pendennis)	993·6	+4	WNW	5	cPR	41	85	7	2500	Nb	8	-	8	4
Plymouth (Cattewater)	993·3	+5	W	1	bjp	42	85	9	1500	Cu.Nb	1	-	1	1
Portland Bill	991·3	+10	W	8	bc-	46	85	7	-	-	0	A.Cu	4	7
Southampton (Calshot)	991·7	+6	W	4	b-	42	75	8	4000	Cu.Nb	1	-	1	4
Dungeness	991·0	+9	WSW	5	b-	44	92	8	1500	St	2	-	2	6
Jersey	994·7	+2	W	6	bc/r	46	75	7	4000	St.Cu	4	-	4	6

LONDON OBSERVATIONS

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0900 G.M.T. 21st								YESTERDAY.		TO-DAY.
Kew	amqids	cqb	bbbx	*	*	31	0·2	-	0·6	*	*
Croydon (24 hours ended 0700)	ordq	obcbq	rq/b	*	*	32	0·1	-	1·4	*	*
Greenwich (Royal Obsy.)	o	ob	bwx	46	36	30	-	-	0·6	75	88
City (Bunhill Row)	*	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James' Pk.)	*	*	*	47	36	30	-	-	0·6	76	88
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	0·5	*	*
Camden Square	r	oc	*	48	36	32	-	fr	*	*	91
Kensington Palace	o	obc	*	47	36	29	-	-	*	75 (18h)	87
Hampstead Observatory	*	*	*	45	34	27	-	fr		*	93

ATMOSPHERIC POLLUTION.
Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 20

South Kensington

Max.	Time.	Min.	Time.
0·6	19h. 15m.	0·3	1-5h. 30m.
0·6	13h. 30m.		

Kew Observatory

Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 20 16h. 45m. to 21st 07h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.15	14.15	100
δ Ursæ Minoris	14.15	1354	98

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 today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
16h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

21st & 22nd Dec., 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4	11.51	3.38
	8.5	11.52	3.39
Greenwich	8.3	11.58	3.51
	8.6	11.59	3.52
Wick	9.3	12.10	3.17
	9.4	12.11	3.18
Valencia	8.49	12.39	4.29
	8.50	12.40	4.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ hue squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, 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 is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers, is the speed at about 30 feet above the ground.

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

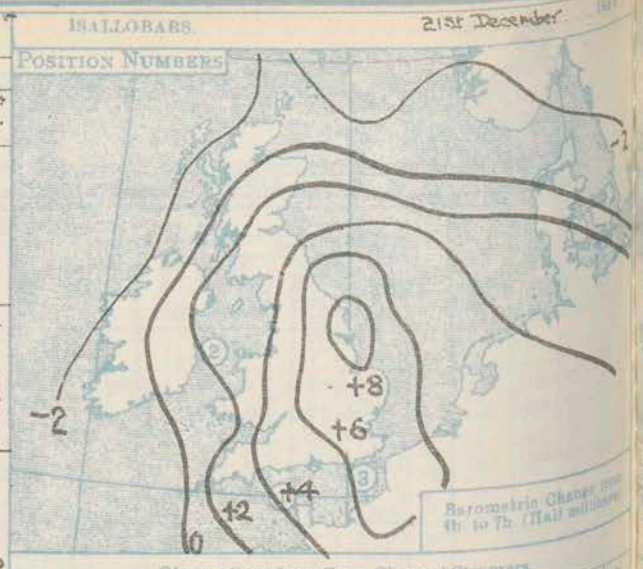
SEA DISTURBANCE.

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

‡ For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.–13h. 20th	13h.–18h. 20th	18h. 20th to 1h. 21st	1h.–7h. 21st	TEMPERATURE. MAX. Day. 7h.–18h.	MIN. Night. 18h.–7h.	MIN. on GRASS	RAINFALL.† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	SUN. 20th Hours.
Lerwick	cp	cp	oqr	omqr	46	37	•	1	3	<0800	<2100	0.4
Stornoway	c	c	c	b	44	35	•	–	0.4	–	–	1.7
Wick	bbc	b-bc	orr	orr	45	34	•	–	4	–	2400	•
Castlebay	obc	bcopb	crscp	cpl	47	40	•	3	5	–	–	2.5
Nairn	bcb	bx bc	bcx	bc	36	29	•	–	0.5	–	0130	2.9
Aberdeen	cmofm	om	mrrm	irbc	38	38	35	–	4	–	<2100	0.0
Malin Head	bcz	bcpoz	copoq	PRco	39	38	•	trace	1	16.30	<2100	4.4
Renfrew	bmxcff	cfbcbm	bmx	bmx	35	30	19	–	–	–	–	0.0
Edinburgh (Inchkeith)	bm	mm	bc	b	40	36	32	–	0.2	–	0530	0.0
Leuchars	omx	oo	orsobbc	bbc	39	35	11	–	0.1	–	2200	0.0
Eskdalemuir	ccmxo	oudoo	oudm	oo	38	31	25	0.1	trace	14.30	<2100	0.0
Tynemouth	offrro	rrmq	orrmq	cPm	44	36	32	18	9	09.00	<2100	•
Blacksod Point ...							•					•
Donaghadee	FF	bc	b	b	39	30	•	–	–	–	–	•
Birr Castle ...	co	cobc	bcco		40	32	26	–	–	–	–	•
Holyhead	oo	ocbc	cocbcv	bc	44	40	39	–	–	–	–	0.0
Liverpool (Bidston) ...	r-d	rro	ob		43	38	35	10	–	<0800	–	0.0
Chester (Shotwick) ...	rrfm	ormqomq	oPRHqsc	cobtb	41	39	33	23	0.4	<0800	<2100	•
Spurn Head	r-d	oroq	r-d	oqpbq	43	36	•	6	3	<0800	<2100	0.0
Nottingham	rr	Rs	roc	bbc	43	36	30	23	1	<0800	<2100	0.0
Cranwell	rrro		owr	omb		28	30		8		<2100	0.0
Gorleston	oqrro	orocq	bbcq	ocbq	46	35	33	5	0.6	<0800	2400	0.0
Valencia (Cahirciveen)	ophc	ophbc	RH					9		09.00		
Roches Point							•					•
Pembroke (St. Ann's H.)	c	c	cbc	bbc	47	43	•	–	0.2	–	2200	4.4
Ross-on-Wye	rsqo	ocbc	bv	bv	42	36	30	7	0.1	<0800	–	0.9
Benson...	roro	bc	bcb	b	49	34	30	1	trace	–	–	•
Andover	orroopc	cbcb	b	bx	47	34	28	1	–	<0800	–	2.9
S. Farnborough ...	oopro	b-bc	bc	oqbx	49	30	27	0.4	–	<0800	–	1.4
London (Kew Obsy.)...	omdidv	cqb	bb	bbbx	49	36	31	0.2	–	<0800	–	0.6
Croydon	ordq	obcbq	rqb	b	49	37	32	0.1	–	<0800	–	1.4
Clacton-on-Sea ...	oqqp	ogbcb	b	b	47	37	34	1	–	<0800	–	0.0
Shoeburyness	orrqo	oo	b	b	48	35	33	0.3	–	<0800	–	0.0
Grain	oqoq	obccb	bb	bb	48	36	29	trace	–	<0800	–	0.4
Lympne	oo	ocbcbl	bbcprph	bbc	47	34	30	–	–	–	2200	1.0
Scilly (St. Mary's) ...	cqprh	cqprh	bqb	coqr	46	44	•	3	1	<0800	<2100	0.5
Falmouth (Pendennis)	bccp	cpbcp	cpbcp	bcpbc	48	41	•	3	1	<0800	<2100	3.0
Plymouth (Cattewater)	cpr	copprb	bbprb	bbprb	47	43	35	2	0.6	<0800	<2100	3.0
Portland Bill	orqcq	cqbc	bc	bbc	51	41	•	0.5	–	0900	–	•
Southampton (Calshot)	oqcbc	bcb	b	b	48	38	36	trace	•	<0800	–	3.1
Dungeness	cq	c	bbc	bbc	44	40	•	trace	0.1	<0800	<2100	•
Jersey	bcqp	bcqp	bcqp	bcqp	50	43	•	1	1	0900	2200	2.3



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	20th 1800	Cambria	NW	4	c	39	49

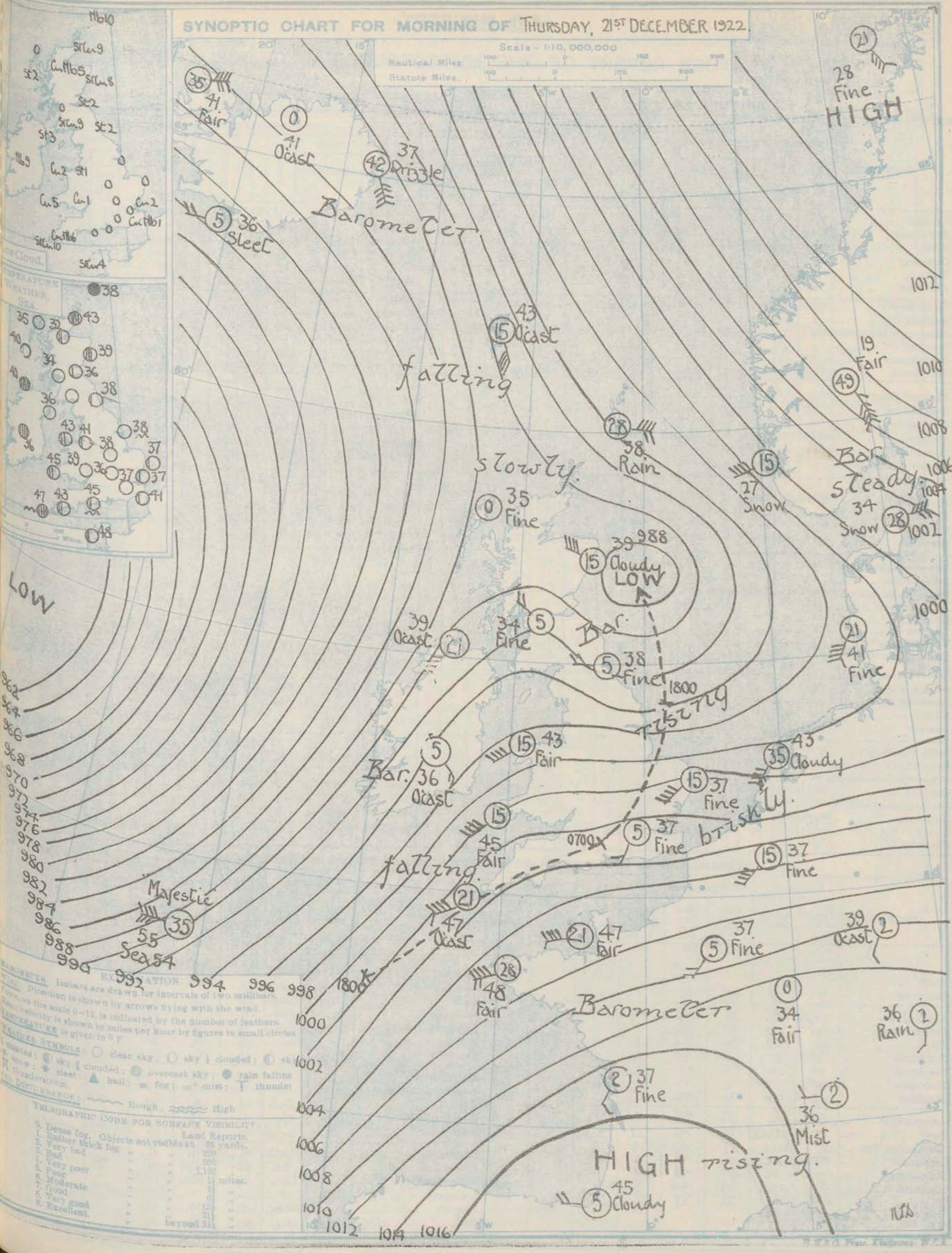
GENERAL INFERENCE.

A very deep depression over the northeast Atlantic will soon affect the British Isles causing renewed gales, initially from a southerly point, and rain accompanied by thunder and lightning in places.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday 21st December, 1922.	Further Outlook.
▼1. S.E. England ▼2. E. England 3. E. Midlands 4. W. Midlands	Moderate SW wind becoming strong later; fair at first, some rain later; visibility good; temperature rising somewhat.	Weather continuing unsettled.
▽5. S.W. England ▽6. South Wales ▽7. North Wales ▽8. N.W. England	Wind SW veering W strong to a gale; variable sky, some rain; visibility good; milder temporarily.	----------
9. N. Midlands ▼10. N.E. England	As for 1 to 4.	▼ South Cone Flying Districts 1,2,& 10.
11. E. Scotland ▽12. S.W. Scotland	Wind W backing to S and becoming strong to a gale; fair early, some rain later; visibility good; milder temporarily.	▽ South Cone Hoisted in Districts 5,6,7, 8,12, 13, 14, 15, 17, 18, 19, & 20 at 0930 today.
▽13. Isle of Man ▽14. N.&N.W. Scotland ▽15. Hebrides	Wind S to S.W. becoming strong to a gale; fair early some rain later; visibility good; milder temporarily.	
16. Orkneys and Shetlands ▽17. N.W. Ireland	Moderate E wind freshening from S later; variable sky rain at times; rather cold.	--------
▽18. N.E. Ireland ▽19. S.E. Ireland ▽20. S.W. Ireland	As for 5 - 8.	

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

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF THURSDAY, 21ST DECEMBER 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
LOW
HIGH rising.
Barometer
falling
slowly.
Bar. steady.
Bar. rising
Bar. falling.
Barometer
briskly.
Majestic
55
Sea 54
0700
1800
1800
962
964
966
968
970
972
974
976
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
988
1000
1002
1004
1006
1008
1010
1012
41 Fair
41 O'cast
37 Drizzle
36 Sleet
43 O'cast
28 Fine
19 Fair
38 Rain
27 Snow
34 Snow
35 Fine
39 Cloudy
34 Fine
38 Fine
39 O'cast
41 Fine
43 Fair
43 Cloudy
36 O'cast
37 Fine
45 Fair
37 Fine
37 Fine
47 O'cast
47 Fair
37 Fine
39 O'cast
48 Fair
34 Fair
36 Rain
37 Fine
36 Mist
45 Cloudy
Low Cloud.
Temperature, Weather, Sea.
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
TEMPERATURE is given in ° F.
WEATHER SYMBOLS
SEA DISTURBANCE: Rough. High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog
2. Very bad
3. Bad
4. Very poor
5. Poor
6. Moderate
7. Good
8. Very good
9. Excellent.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. THURSDAY, 21ST DECEMBER 1922. No. 355

Observations at 0100 G.M.T. 21st

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	995.7	+1	SSE	5	or,	42	85	7	1500	Nb	4	ASt	10	•
Stornoway	992.8	+3	-	0	0	•	•	5	•	•	•	•	•	•
Wick	990.8	+1	SE	2	or	38	97	8	800	St	10	-	10	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	992.0	+3	NW	5	bc PR	45	92	8	5750	CuNb	6	-	6	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	988.2	+2	NW	4	bc-	41	75	8	-	St	3	A.St	5	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	983.3	+4	NNW	5	bc PR	43	92	6	4000	CuNb	6	-	6	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	993.6	+3	WNW	6	bc-	45	85	9	2500	St.Cu	6	-	6	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	993.0	+6	WSW	9	o RR	37	97	6	4000	Nb	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	991.5	+11	W'S	5	o/r	39	97	6	800	St	10	-	10	•
Gorleston	992.5	+4	SW	5	or, r,	40	85	7	4000	Nb	10	-	10	•
Valencia (Cahirciveen)	?1000.2	0	SSE	2	b	43	85	6	-	St	2	-	2	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Aun's H.)	999.2	+6	SWW	4	bc-	45	85	8	4000	Cu	4	-	4	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	38	•	•	•	•	•	•	•	•
Croydon	996.8	+6	SW	4	b	39	85	7	-	-	0	-	0	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	998.5	+4	SW	4	b	35	97	8	-	-	0	-	0	•
Scilly (St. Mary's)	1003.1	+5	WNW	6	b/r	45	85	8	4000	CuNb	2	-	2	•
Falmouth (Pendennis)	1001.3	+8	NW	2	bc PR	42	85	7	2500	Nb	5	-	5	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	997.6	+4	WNW	7	b	44	85	7	-	-	0	C.Cu	3	•
Southampton (Calshot)	998.5	+6	W	4	b	40	85	8	-	-	0	-	0	•
Dungeness	997.6	+6	WSW	5	b	42	92	8	-	-	0	-	0	•
Jersey 7h / Guernsey 1h	1002.1	+7	W	5	bc PH	45	85	8	4000	CuNb	4	-	4	•

Observations at 0700 G.M.T. 21st

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	994.5	-3	ESE	6	or, r,	38	92	6	2500	Nb	10	-	10	5
Stornoway	988.7	-2	-	0	b-	35	92	7	-	-	0	-	0	0
Wick	988.6	-2	NE	3	o	43	92	8	4000	St.Cu	9	-	9	4
Castlebay	989.7	-2	ESE	1	b/r	40	85	7	1500	St	2	-	2	2
Nairn	989.9	•	-	0	bc	32	85	8	4000	CuNb	5	-	5	•
Aberdeen	988.4	+1	NNW	4	c	39	92	7	2500	St.Cu	8	-	8	3
Malin Head	990.6	-2	SSW	5	o/r	39	92	8	-	-	0	A.St	9	4
Renfrew	992.0	+2	NW	2	b	34	92	5	-	-	0	-	0	•
Edinburgh (Inchkeith)	990.5	+3	WSW	3	nb	36	85	6	-	St	2	-	2	•
Leuchars	989.1	+3	SW	3	b-	37	85	7	-	-	0	-	0	•
Eskdalemuir	992.8	+2	S	2	o	34	92	6	2500	St.Cu	9	-	9	•
Tynemouth	991.4	+6	W	2	b-	38	92	6	4000	St	2	-	2	3
Blacksod Point	994.8	+2	W	4	b+	36	92	8	1500	St	3	-	3	2
Donaghadee	994.2	•	SE	2	o+	36	?	5	800	Nb	9	-	9	•
Birr Castle	997.0	+2	SW	4	bc	43	85	8	2500	Cu	2	A.St	5	3
Holyhead	996.7	+4	W'S	5	b+	44	85	8	2500	St	1	-	1	5
Liverpool (Bidston)	997.3	+4	SW	3	b-	42	85	5	2500	St	2	-	2	•
Chester (Shotwick)														6
Spurn Head	994.1	+10	SW	6	b	38	92	7	-	-	0	-	0	•
Nottingham	997.5	•	WSW	3	b	38	92	6	-	-	0	-	0	•
Cranwell	997.6	+6	WSW	4	b	35	92	7	4000	St.Cu	1	-	1	•
Gorleston	1000.9	+4	SW	4	b	37	85	7	-	-	0	A.St	1	4
Valencia (Cahirciveen)														
Roches Point	1000.3	0	SW	4	bc	45	75	8	4000	Cu	5	-	5	4
Pembroke (St. Aun's H.)	1001.2	+4	SW'W	3	b	39	85	9	4000	Cu	1	Cu	2	•
Ross-on-Wye	1002.0	+6	SW	3	b	36	92	9	-	-	0	-	0	•
Benson	1003.4	+6	SSW	3	b	34	97	7	-	-	0	-	0	•
Andover	1002.8	+6	W	2	b	30	97	7	-	-	0	-	0	•
S. Farnborough	1002.9	+6	SW	2	b	37	85	7	-	-	0	-	0	•
London (Kew Obsy.)	1002.6	+6	SW	4	b	39	92	7	-	-	0	-	0	•
Croydon	1001.0	+6	SW	3	b+	37	92	7	2500	Cu	2	-	2	1
Clacton-on-Sea	1002.1	+4	WSW	3	b	36	85	7	-	-	0	-	0	•
Shoeburyness	1002.9	+6	SW	4	b	37	92	7	-	-	0	-	0	3
Grain	1002.7	+4	WSW	4	b	35	92	8	2500	CuNb	1	-	1	•
Lympne	1003.2	-1	SW	5	o	47	65	8	4000	St.Cu	10	-	10	6
Scilly (St. Mary's)	1004.6	+3	NW	4	bc+	43	75	8	4000	CuNb	6	-	6	3
Falmouth (Pendennis)	1004.5	+2	W	3	b/p	45	85	9	1500	CuNb	3	-	3	1
Plymouth (Cattewater)	1003.7	+5	W	6	b	45	85	7	-	-	0	C.Cu	0	6
Portland Bill	1003.7	+5	W'S	4	b	40	85	8	-	-	0	-	0	0
Southampton (Calshot)	1003.2	+5	WSW	4	b	41	97	8	2500	St	2	-	2	4
Dungeness	1006.9	+2	W	5	bc/r	47	75	7	4000	St.Cu	4	-	4	4
Jersey 7h / Guernsey 1h														

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 19-20 °F.	Temperature. Max. Day. 20 °F.	Rainfall.† Night 17h.-9h. 19-20 mm.	Rainfall.† Day 9h.-17h. 20 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 20 hr.
Banff								
Montrose	*	*	31	45	-	0.3		0.0
Llandudno	odopc	pc	35	45	0.3	0.3		0.0
Colwyn Bay	cp	cp	38	43	1	1		0.0
Rhyl	op	ohp	36	44	1	4		0.0
Southport	r	r	35	40	2	8		0.0
Blackpool	or	or	35	40	1	8		0.0
Harrogate	r	rs	31	38	3	11		0.0
Skegness	ro	or	38	45	5	2		0.0
Aberystwyth	roc	o	38	45	11	-		0.0
Bath	or	ocbcb	38	45	22	0.3		1.8
Leamington Spa	or	bco	37	40	14	3		0.0
Lowestoft	orpo	oc	39	46	6	0.2		0.0
Felixstowe	omc	ac	41	48	4	-		0.1
Southend	o	ocbc	39	46	5	-		0.0
Ilkley	orPR	r	32	37	3	23		0.0

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 19-20 °F.	Temperature. Max. Day. 20 °F.	Rainfall.† Night 17h.-9h. 19-20 mm.	Rainfall.† Day 9h.-17h. 20 mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 20 hr.
Paignton	bcbcqp	bcq	39	47	35	1		4.5
Ilfracombe	ocbcb	bcoPHR	38	47	38	1		2.4
Bude	Rcp	cpq	36	50	30	1		1.4
Penzance	bc	cPRbc	41	47	27	1		2.5
Falmouth Observatory	bcpH	bcph	39	46	30	2		2.8
Torquay	p	bc	38	48	33	0.3		4.5
Weymouth	bcp	bc	39	46	19	0.2		4.0
Bournemouth	b	b	38	46	11	-		4.0
Portsmouth (S'thsea)	cb	o	40	47	15	-		3.2
Worthing	c	bcb	41	46	12	-		2.7
Brighton	ooc	cb	41	46	1	-		1.4
Eastbourne	oc	bcb	41	46	10	-		1.3
Hastings	oporo	ocbcb	41	46	11	0.2		1.8
Folkestone	bc	bc	40	49	8	-		3.3
Tunbridge Wells	o	cbc	39	43	18	-		0.3
Ramsgate	go	o	-	-	-	-		0.0
Margate	o	ocbc	41	49	12	-		0.2
Deal	rqbc	cbc	40	48	10	-		2.3

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22310 FRIDAY, 22ND DECEMBER 1922.

Observations at 1300 G.M.T. 21st

Stations	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	State of ground.
Lerwick	992.3	0	SE	5	c-	41	85	6	4000	StCu	8	·	8	·
Stornoway	984.1	-5	S	4	o+	43	85	6	450	St	10	·	10	·
Wick	987.1	-2	SSW	2	o/r	40	97	7	5700	StCu	7	Ci	9	·
Castlebay	981.9	-9	ESE	7	odd	40	92	6	800	Nb	10	·	10	·
Nairn	·	·	·	·	·	·	·	·	·	·	·	·	·	·
Aberdeen	989.3	-1	SSW	1	c	39	85	6	1500	St	1	Ci	7	1
Malin Head	979.3	-16	SSE	5	ors-	38	97	7	5700	Nb	5	ASt	10	·
Renfrew	989.8	-5	S	3	or₀+	39	85	6	1500	Nb	10	·	10	2
Edinburgh (Inchkeith)	990.1	-2	SSW	2	mo-	41	85	7	·	St	4	ASt	10	·
Leuchars	989.7	-2	N	1	o	37	85	6	1500	St	6	ASt	10	1
Eskdalemuir	991.7	-2	SSW	4	or₀+	37	85	7	1500	Nb	10	-	10	2
Tynemouth	993.3	+1	WSW	3	mo-	44	75	5	·	·	0	ASt	10	·
Blacksod Point														·
Donaghadee	988.0	-5	SW	4	orr	41	92	7	2500	St	10	·	10	·
Birr Castle	982.0	·	SE	3	or₀r₀	44	·	6	1500	Nb	10	·	10	·
Holyhead	989.6	-12	S'E	7	orr	42	97	6	800	Nb	10	·	10	2
Liverpool (Bidston)	993.7	-5	SSE	2	opr₀	41	85	6	1500	St	10	·	10	·
Chester (Shotwick)	995.2	-5	SSE	5	od₀	42	85	7	1500	St	10	·	10	2
Spurn Head	997.4	+3	SW	5	o	41	92	6	-	-	0	A.St	10	·
Nottingham	998.7	·	SSW	4	o	42	85	7	2500	Nb	10	·	10	·
Cranwell	999.7	-1	SSW	4	o+	41	85	7	4000	St	9	·	9	1
Gorleston	1003.5	+2	SW	4	c+	43	75	6	-	-	0	CiSt	7	·
Valencia (Cahirciveen)	981.4	-4	SSW	5	b-	49	65	7	-	-	0	A.Cu	2	2
Roches Point														·
Pembroke (St. Ann's H.)	992.2	-12	S'E	8	odd₀₀	45	92	6	1500	Nb	10	-	10	·
Ross-on-Wye	998.7	-5	S'W	4	orr	40	92	7	2500	Nb	10	-	10	2
Benson	1001.3	-4	SSW	4	or₀	43	85	7	-	Nb	10	-	10	1
Andover	1002.7	-1	SSW	5	or	42	97	7	800	St	10	-	10	1
S. Farnborough	1003.1	-2	S'W	4	mo+	45	85	6	800	St	7	A.St	10	1
London (Kew Obsy.)	1003.0	-4	SW	3	o	45	85	6	4000	St	10	-	10	1
Croydon	1003.7	-2	SSW	4	o	45	85	6	2500	St	6	ASt	10	1
Clacton-on-Sea	·	·	·	·	·	·	·	·	·	·	·	·	·	·
Shoeburyness	1004.2	0	SSW	3	o+	44	85	7	4000	St	10	·	10	·
Grain	1004.5	0	SSW	5	o+	46	75	8	-	-	0	ASt	10	2
Lympne	1005.7	-1	W	5	o	45	85	8	2500	Nb	3	ASt	10	2
Scilly (St. Mary's)	993.2	-11	S	6	oRR	50	97	5	2500	Nb	10	-	10	·
Falmouth (Pendennis)	996.8	-8	SW	8	orr	44	97	5	2500	Nb	10	-	10	·
Plymouth (Cattewater)	999.4	-8	S	7	orr	45	97	6	1500	Nb	10	-	10	2
Portland Bill	1001.1	-3	W	6	orr	45	85	6	450	St	10	-	10	·
Southampton (Calshot)	1003.8	-3	SW'W	7	orr	45	75	7	1500	CuNb	7	ASt	10	1
Dungeness	1005.5	+2	WSW	4	c+	47	85	8	1500	St	5	ASt	8	·
Jersey 7h	1006.0	-1	S	5	or	45	85	6	1500	Nb	10	-	10	·

Observations at 1800 G.M.T. 21st

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	989.3	-3	SE	6	bc-	41	75	7	4000	Cu	6	-	6	5
Stornoway	976.4	-9	S	6	orr	40	92	6	450	St	10	-	10	5
Wick	982.3	-7	S	6	o	43	92	8	800	St	2	ASt	9	5
Castlebay	975.0	-5	SSE	4	b/r	47	85	6	1500	CuNb	3	-	3	6
Nairn	980.2	·	-	0	c+	39	85	8	1500	St	8	-	8	·
Aberdeen	984.9	-5	S	4	or-	41	85	6	1500	Nb	10	-	10	1
Malin Head	974.7	-4	SSE	5	bc+	42	97	8	4000	Cu	2	ACu	6	4
Renfrew	980.6	-11	SW	4	o/r	40	85	6	2500	St	5	ASt	10	·
Edinburgh (Inchkeith)	982.9	-9	SSE	2	o	40	85	8	-	CuNb	6	ASt	10	2
Leuchars	983.4	-8	SE	4	o/r	40	92	7	1500	St	10	-	10	·
Eskdalemuir	983.2	-5	S'E	5	odd	37	92	6	800	Nb	10	-	10	·
Tynemouth	988.3	-4	SW	5	od₀	40	97	6	2500	St	10	-	10	4
Blacksod Point														
Donaghadee	980.6	-6	WSW	3	b-	47	85	8	-	-	0	ACu	1	5
Birr Castle	976.5	·	SSE	2	oPR+	45	?	6	800	StCu	10	-	10	·
Holyhead	981.2	-7	S'E	4	or-	46	97	7	1500	Nb	10	-	10	7
Liverpool (Bidston)	985.7	-6	SE'S	4	od₀+	41	97	7	1500	Nb	10	-	10	5
Chester (Shotwick)	985.8	-6	S	6	or₀r₀	42	97	6	1500	St	10	-	10	·
Spurn Head	990.5	-7	SSE	7	opr₀	42	92	7	4000	Nb	10	-	10	6
Nottingham	991.0	·	SSW	6	or	43	97	7	1500	Nb	10	-	10	·
Cranwell	992.8	-10	S'W	6	orr	41	92	7	1500	Nb	10	-	10	·
Gorleston	1000.9	-2	S'W	6	o	43	92	6	4000	St	10	-	10	6
Valencia (Cahirciveen)	977.7	-1	SW'S	5	bcph₀	46	75	7	2500	StCu	5	-	5	6
Roches Point														
Pembroke (St. Ann's H.)	985.0	-5	SSW	5	opr₀	48	85	8	2500	Nb	9	-	9	6
Ross-on-Wye	988.4	-10	SSE	6	orr	46	92	7	2500	Nb	10	-	10	·
Benson	994.4	-10	S	7	orr	44	92	6	-	Nb	10	-	10	·
Andover	995.3	-8	SSE	6	oRR	44	97	6	800	Nb	10	-	10	·
S. Farnborough	996.6	-8	S'W	7	orr	44	92	6	-	Nb	10	-	10	·
London (Kew Obsy.)	998.1	-8	S	5	or+	44	92	6	1500	Nb	8	ASt	10	·
Croydon	998.6	-8	SSW	6	orr	42	97	7	1500	Nb	10	-	10	·
Clacton-on-Sea	1000.3	-5	SSW	5	o+	44	85	7	2500	Cu	5	ASt	10	4
Shoeburyness	1000.2	-4	SW	7	or+	43	92	7	800	St	10	-	10	·
Grain	1000.6	-5	S	6	or+	43	92	7	1500	Nb	10	-	10	3
Lympne	1002.0	-5	SSW	7	orr	42	92	7	1500	Nb	10	-	10	·
Scilly (St. Mary's)	987.5	-3	SW	3	oRR	50	97	5	800	St	10	-	10	7
Falmouth (Pendennis)	986.6	·	WSW	10	oKq	52	97	5	1500	Nb	10	-	10	7
Plymouth (Cattewater)	989.0	-8	WSW	10	orr	51	97	6	800	Nb	10	-	10	7
Portland Bill	991.6	-12	SSW	9	oRR	44	85	6	450	St	10	-	10	8
Southampton (Calshot)	996.5	-11	S'W	7	orr	47	85	7	1500	Nb	10	-	10	6
Dungeness	1001.0	-5	SSW	8	or-	44	97	7	1500	CuNb	10	-	10	7
Jersey 7h	1001.0	-4	S	5	or	49	75	6	1500	Nb	10	-	10	4

LONDON OBSERVATIONS. (24 HOURS ENDED 0900 G.M.T. 22nd)

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temperature Max. °F.	Temperature Min. °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)
Kew (24 hours ended 0700)	bmwbm	otngx	oqxbcp	·	·	40	1	14	1.2	·	·
Croydon (24 hours ended 0700)	bbccom	ovrrq	oRrqbc	·	·	40	1	27	1.9	·	·
Greenwich (Royal Obsy.)	bo	odr	orb	49	38	38	0.3	18	1.7	76	81
City (Bunhill Row)	·	·	·	·	·	·	·	·	0.0	·	·
Westminster (St. James' Pk.)	·	·	·	50	39	35	17		1.2	84	78
Regent's Pk. (Botanic Gdns).	·	·	·	·	·	·	·	·	0.0	·	·
Camden Square	bcw	r	·	51	38	36	2	14	·	·	85
Kensington Palace	bcc	or	·	49	38	37	2	16	·	83 (18h)	84
Hampstead Observatory	·	·	·	47	35	29	4	8	0.0	·	90

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 21st

South Kensington

Max.	Time.	Min.	Time.
0.6	1900 20th	<0.3	0100 12th
0.6	0900 21st		0400 21st

Kew Observatory

Max.	Time.	Min.	Time.
0.4	1900 20th		0100 1?
0.5	0800 21st	<0.3	0500 21st

POLE STAR RECORD at Greenwich Obsy.

Exposure from 21st 16 h 45 m. to 22nd 07 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14.15	2.2	14
δ Ursae Minoris	14.15	2.0	14

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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 salted snow).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

22nd & 23rd December 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5 / 8.5	11.52 / 11.52	3.39 / 3.39
Greenwich	8.6 / 8.6	11.59 / 11.59	3.52 / 3.52
Wick	9.4 / 9.4	12.11 / 12.11	3.18 / 3.18
Valencia	8.50 / 8.50	12.40 / 12.40	4.30 / 4.30

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus:—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

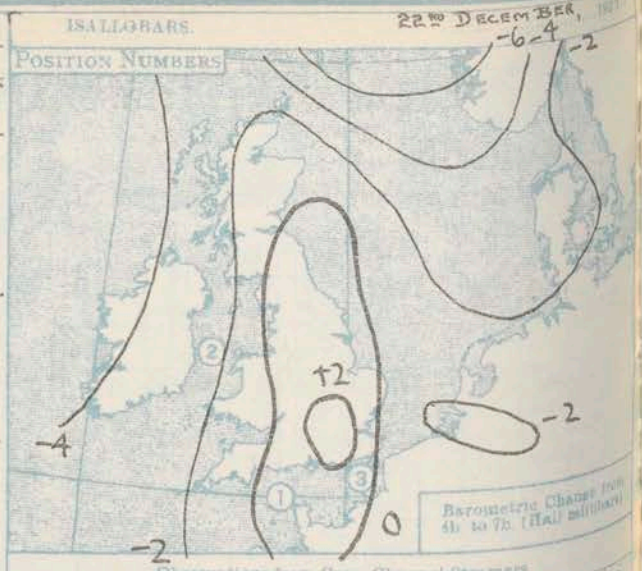
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

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.

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-18h. 21st	WEATHER. 18h.-18h. 21st	WEATHER. 18h. 21st to 1h. 22nd	WEATHER. 1h.-7h. 22nd	TEMPERATURE. MAX. Day. 7h.-18h.	TEMPERATURE. MIN. Night. 18h.-7h.	TEMPERATURE. MIN. on GRASS	RAINFALL† Day. 7h.-18h. mm.	RAINFALL† Night. 18h.-7h. mm.	RAINFALL† Precipitation began.	RAINFALL† Precipitation began.	SUN. 21st Hours.
Lerwick	cp	oq	oqr.	omrq	43	38	•	1	5	0900	<2100	0.0
Stornoway	c	r-d	c	rr	43	39	•	4	7	1530	-	0.0
Wick	oir	oo	op.lq	bbc	43	41	•	0.2	1	<0800	<2100	•
Castlebay	borr	rrbc					•	3		-		
Nairn	bccm	cmq	ocqdbc	cbc	39	37	•	0.2	0.3	1630	2200	0.8
Aberdeen	c	coor	arrmo	ocb	42	41	38	1	5	1730	<2100	0.9
Malin Head	qrsrs	irsbc	pr.l	copr	43	39	•	3	0.4	0900	2200	1.3
Renfrew	bxofmr	orrr	oirR	ocq	40	39	34	2	4	1230	<2100	0.0
Edinburgh (Inchkeith)	bmo	ir	co	pb	42	40	37	0.1	0.5	1730	0630	0.0
Leuchars	bxom	omrr	obopRbc	b	40	39	29	1	1	1430	0130	0.0
Eskdalemuir	ocor	irsod	qdrm	ocbrh	38	33	32	4	10	1100	<2100	0.0
Tynemouth	bolt	oidm	cp.m	bbcm	44	40	34	trace	0.4	1430	<2100	•
Blacksod Point ...							•					•
Donaghadee	or-d	orrc	idbc	cq	47	42	•	6	1	1100	<2100	•
Birr Castle ...	or	rPR	cirq	cirq	48	38	32	2	4	<0800	<2100	•
Holyhead	bccorr	rod	ircoirb	irRtrh	46	43	40	5	4	0900	2200	0.0
Liverpool (Bidston) ...	cop	qod	lopb		47	39	35	1	1	1430	2200	0.0
Chester (Shotwick) ...	opr	oroq	orropm	coprmc	43	40	33	1	3	1100	<2100	•
Spurn Head	bqo	pqpr	r-d	oqrbq	42	41	•	0.3	4	1430	0130	1.1
Nottingham	oo	oo	iR	c	43	41	37	2	3	1330	<2100	0.0
Cranwell	bmbco	r-d	orrm	cbcb	41	41	36	1	5	1430	<2100	1.0
Gorleston	bbcqq	cq	oqrr	roq	44	42	41	-	8	-	<2100	3.0
Valencia (Cahirciveen)	orcb	ophbc	orqlh					12		<0800		
Roches Point							•					•
Pembroke (St. Ann's H.)	oqrrd	oqrrp	oqpr	cqprl	50	43	•	15	3	<0800	<2100	0.0
Ross-on-Wye	cdbr	rrq	obcqc	rrqoRo	46	44	39	5	11	1100	<2100	0.0
Benson...	pcoro	oor	Rot	obclb	44	42	39	4	8	1330	<2100	•
Andover	bccor	orroRr	oRro	ocbq	44	43	35	5	15	1100	<2100	0.6
S. Farnborough ...	obccom	oorrrr	rriR	irbcrcrb	45	42	39	3	21	<0800	<2100	1.2
London (Kew Obsy.) ...	bmwom	orhqr	oqr	oqrobp	46	44	40	1	14	1430	<2100	1.2
Croydon	obecom	oroqq	orRq	orqbpc	46	43	40	1	27	1330	<2100	1.9
Clacton-on-Sea ...	bbccv	coq	oqr	oqqrbc	44	42	41	-	10	-	<2100	2.1
Shoeburyness ...	obcco	oort	orrqRr	orRcbb	46	41	39	0.4	9	16.30	<2100	2.7
Grain	bxcov	ouoqr	orr	orrqb	46	42	38	0.4	12	1730	<2100	2.7
Lympne	bbcc	ocoqrr	omRRrr	amrrr	46	42	40	0.6	12	1230	<2100	2.8
Scilly (St. Mary's) ...	omRq	omR	bcqp.	bcqlR	52	37	•	24	2	<0800	<2100	0.0
Falmouth (Pendennis)	omrq	omrq	ompcb	barhq	52	45	•	8	4	<0800	<2100	0.0
Plymouth (Cattewater)	orr	orre	or	oprbb	51	47	41	10	5	<0800	<2100	0.0
Portland Bill	bcor	oqr	oqrcq	cbcq	48	40	•	4	17	1100	<2100	•
Southampton (Calshot)	corq	oroq	rrqr	orcbc	47	43	43	4	17	1100	<2100	0.9
Dungeness	bbc	oq	qr	oqr	47	44	•	trace	7	1730	<2100	•
Jersey 7h. ...	bcqp	coqpr	oqrr	oqpb	50	45	•	2	8	0900	2100	0.0



Observations from Cross Channel Steamers.

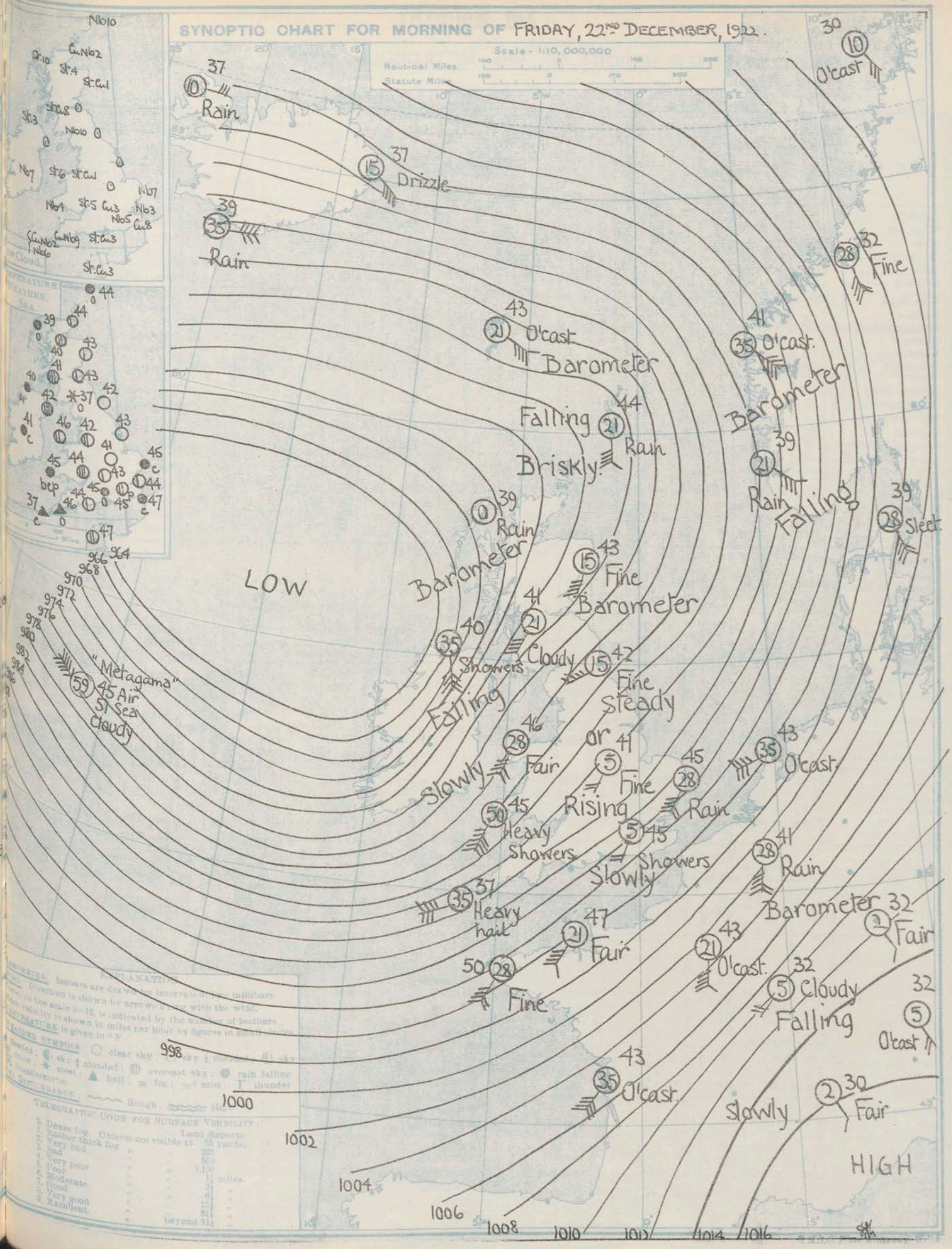
Position	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	Visibility
2	21st 1000	Cambria	SSW	7	ap	43	50	7
1	21st 1300	Ibex	SW	6	rr	47	52	6

GENERAL INFERENCE.

The large Atlantic depression which was approaching the British Isles yesterday is now centred off the northwest coasts and moving northeastwards. Though some decrease in intensity is indicated gales will continue in exposed places. Squally showers of rain or hail are probable with thunder in places and rather low temprature, but there will be some bright intervals.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T Friday, 22nd December, 1922.	Further Outlook
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind SW. veering W. strong, a gale in places; variable sky some rain or hail showers, thundery tendency; visibility good; rather cold.	Unsettled, rather colder.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Strong southerly winds veering W. or NW., a gale in places; variable sky, some rain or hail showers; thundery tendency; visibility good; rather cold.	South Cone hoisted in Districts 11 & 16 at 1600 yesterday. South Cone still flying all other coasts.
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind strong to a gale mainly from SE. to S; variable sky, some rain or sleet; visibility good; rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southerly veering towards NW, strong to a gale; variable sky, some rain or hail showers, thundery tendency; visibility good; rather cold.	

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF FRIDAY, 22ND DECEMBER, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
37 Rain
37 Drizzle
39 Rain
30 O'cast
32 Fine
43 O'cast
Barometer
Falling
Briskly
44 Rain
41 O'cast.
Barometer
39 Rain
Falling
39 Sleet
39 Rain
Barometer
LOW
43 Fine
Barometer
40 Showers
Falling
41 Cloudy
42 Fine
Steady
or
Slowly
46 Fair
41 Fine
Rising
45 Rain
43 O'cast.
45 Heavy Showers
Slowly
45 Showers
41 Rain
Barometer
37 Heavy hail
47 Fair
43 O'cast.
32 Fair
50 Fine
32 Cloudy
Falling
32 O'cast
43 O'cast.
Slowly
30 Fair
HIGH
"Metagama"
45 Air
51 Sea
Cloudy
998
1000
1002
1004
1006
1008
1010
1012
1014
1016

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. FRIDAY, 22ND DECEMBER 1922. No. 356.

Observations at 0100 G.M.T. 22nd

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	983.0	-7	SE	6	obr.	43	85	7	2500	Nb	5	A.St	10	•
Stornoway	972.0	-4	SSE	4	0	•	•	5	•	•	•	•	•	•
Wick	975.6	-5	S	8	b/r	43	92	8	4000	Cu	2	-	2	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	970.0	-3	SSE	5	c/r	40	97	8	5700	Nb	4	A.Cu	7	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	976.1	-6	SSW	3	o+	46	75	8	-	St	2	A.St	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	980.8	-3	W	1	b	44	92	6	-	-	0	-	0	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	980.2	+1	SSW	5	b/r	47	75	8	2500	Cu	1	-	1	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	985.0	0	S	7	oRR	45	97	7	4000	Nb	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	986.5	-7	SSW	4	c/r	48	97	7	1500	St	7	-	7	•
Gorleston	991.9	-3	S'W	8	oR-	44	97	6	2500	Nb	10	-	10	•
Valencia (Cahirciveen)	974.4	-9	SW'S	5	obrs.	46	85	5	-	St	10	-	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	984.0	+2	SW	8	bcPR	47	75	8	1500	Nb	4	-	4	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	48	•	•	•	•	•	•	•	•
Croydon	990.2	-1	SW'S	6	orr	47	97	6	450	Nb	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	994.8	-5	SSW	8	orr	45	97	4	450	Nb	10	-	10	•
Scilly (St. Mary's)	988.5	+1	WSW	6	b	48	75	8	4000	Cu Nb	2	-	2	•
Falmouth (Pendennis)	988.6	*	W	7	b-	50	75	8	-	-	0	-	0	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	990.2	+4	SW	7	bc/r	44	85	7	1500	Cu	6	-	6	•
Southampton (Calshot)	991.1	-1	SW	4	or.	47	97	6	1500	Nb	10	-	10	•
Dungeness	993.8	-4	SSW	10	oRR	44	85	7	1500	St	10	-	10	•
Jersey 7h / Guernsey 1h	994.4	0	SSW	7	oR-	50	85	7	4000	Nb	10	-	10	•

Observations at 0700 G.M.T. 22nd

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	975.6	-7	S	5	or.	44	97	6	2500	Nb	10	-	10	4
Stornoway	969.1	-3	-	0	oRR	39	97	5	450	St	10	-	10	0
Wick	972.1	-2	SSW	6	b	44	92	8	2500	Cu Nb	2	A.Cu	3	7
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	971.8	•	W	2	bc-	40	85	8	1500	St	4	-	4	•
Aberdeen	975.7	0	SSW	4	b	43	85	7	4000	St.Cu	1	-	1	1
Malin Head	964.7	-4	S'E	7	obr.	40	97	7	2500	St	3	A.St	9	6
Renfrew	974.7	-2	SSW	5	c	41	75	7	2500	St.Cu	8	-	8	•
Edinburgh (Inchkeith)	976.3	+1	SW	4	b/r	43	85	8	-	-	0	A.St	3	3
Leuchars	977.7	0	SSW	4	c+	42	85	7	2500	St.Cu	7	-	7	•
Eskdalemuir	978.8	0	S	3	ors.	34	97	7	800	Nb	10	-	10	•
Tynemouth	981.4	0	WSW	4	b	42	85	6	-	-	0	-	0	4
Blacksod Point	975.1	-3	SW	4	o+	42	85	8	2500	St	9	-	9	5
Donaghadee	970.7	•	SE	5	c+	41	?	6	2500	Nb	7	-	7	•
Birr Castle	978.9	-2	SSW	6	bc/r	46	75	8	1500	St	6	-	6	6
Holyhead	982.1	+1	S	6	bc/r	42	85	7	2500	St.Cu	1	A.St	4	•
Liverpool (Bidston)	983.3	-1	SSW	4	obr.	43	85	5	1500	Nb	9	-	9	•
Chester (Shotwick)														5
Spurn Head	986.2	+1	SSE	5	b	43	92	7	-	-	0	-	0	•
Nottingham	986.9	•	SSW	2	b	41	85	6	-	-	0	-	0	•
Cranwell	988.5	+1	SSW	4	b/b	41	85	7	1500	St.Cu	2	-	2	•
Gorleston	991.9	0	S'W	6	cr.	45	97	6	4000	Nb	7	-	7	6
Valencia (Cahirciveen)														
Roches Point	982.0	-1	SSW	9	bcPR	45	75	8	2500	Nb	4	-	4	7
Pembroke (St. Ann's H.)	987.5	+1	SSW	5	c	44	75	8	2500	St	5	A.St	8	•
Ross-on-Wye	990.3	+3	SSW	4	b/r	43	92	8	-	Cu	3	-	3	•
Benson	991.3	+1	S	5	b-	43	85	7	2500	Cu	1	-	1	•
Andover	991.9	+1	SW	5	crr	45	92	7	1500	Nb	10	-	10	•
S. Farnborough	992.1	+3	SW	2	bcbr.	45	92	7	1500	Nb	5	-	5	•
London (Kew Obsy.)	992.5	+1	SSW	4	c/r	45	85	6	1500	St	8	-	8	•
Croydon	992.7	+1	SSW	4	b/r	44	97	8	2500	Nb	3	-	3	4
Clacton-on-Sea	993.4	+3	SSW	4	b-	43	85	7	4000	St	2	A.St	2	•
Shoeburyness	994.0	+2	S	4	b+	44	85	8	-	-	0	A.Cu	9	3
Grain	994.3	-1	SSW	6	o/r	45	97	6	225	Nb	7			•
Lympne														
Scilly (St. Mary's)	98).4	-2	WSW	7	ch(R)	37	92	7	2500	Nb	8	-	8	7
Falmouth (Pendennis)	989.5	?	WSW	8	or(R)	46	97	7	4000	Cu Nb	9	-	9	7
Plymouth (Cattewater)	989.5	-1	SW	8	o/b	50	85	5	1500	St	10	-	10	8
Portland Bill	990.2	0	SW	7	b/r	44	85	7	1500	St.Cu	3	-	3	•
Southampton (Calshot)	992.4	+2	SW	4	bc/r	47	92	6	4000	St.Cu	5	-	5	4
Dungeness	994.2	+3	SW	8	c+	47	97	8	1500	Cu	8	A.Cu	8	8
Jersey 7h / Guernsey 1h	995.5	0	SW	5	bc/r	47	85	7	4000	St.Cu	3		5	6

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 21ST DECEMBER

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 20th-21st °F.	Temperature. Max. Day. 21st °F.	Rainfall.† Night 17h.-9h. 20th-21st mm.	Rainfall.† Day 9h.-17h. 21st mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 21st hr.
Banff								0.0
Montrose	-	-	35	41	1	1		1.0
Llandudno	or	qpop	37	51	0.1	1		0.0
Colwyn Bay	cp	cbr	37	46	-	3		0.0
Rhyl	o	ooo	40	44	0.3	1		0.0
Southport	coco	opor	40	43	2	1		0.0
Blackpool	po	qu	40	44	1	1		0.0
Harrogate	co	b	33	41	2	1		0.0
Skegness	bbco	or	33	43	24	2		1.9
Aberystwyth	rr	oc	41	47	1	0.3		0.7
Bath	or	r.o.	36	43	-	4		0.0
Leamington Spa	o	qr	35	43	-	2		0.0
Lowestoft	b	bmb	35	44	-	-		3.5
Felixstowe	b	o	35	45	-	-		2.5
Southend	b.bc	oro	33	45	-	1		2.2
Ilkley	ocdp	cpom	35	43	4	2		0.0

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 20th-21st °F.	Temperature. Max. Day. 21st °F.	Rainfall.† Night 17h.-9h. 20th-21st mm.	Rainfall.† Day 9h.-17h. 21st mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 21st hr.
Paignton	orpq	orqorq	38	51	1	19		0.0
Ilfracombe	ord	odr	41	51	2	8		0.0
Bude	o	r	41	53	3	3		0.0
Penzance	or	or	41	53	5	12		0.0
Falmouth Observatory	rq	rq	40	52	3	4		0.0
Torquay	r	r	38	49	2	14		0.0
Weymouth	cor	rqr	40	48	0.2	7		0.0
Bournemouth	r	r	37	47	-	3		1.0
Portsmouth (S'thsea)	boir	oir	40	47	-	4		1.6
Worthing	bbc	oro	36	47	0.3	1		1.6
Brighton	bbc	o	39	48	1	-		2.2
Eastbourne	bbc	opor	41	48	2	1		3.0
Hastings	bbccp	opoqr	37	48	1	1		2.6
Folkestone	b	b	35	47	1	-		2.4
Tunbridge Wells	bbc	oocr	35	47	-	trace		2.4
Ramsgate	bbc	o	36	47	-	-		3.8
Margate	bb	bccq	36	46	1	-		
Deal								

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22311 SATURDAY 23rd DECEMBER 1922. Page 1.

Observations at 1300 G.M.T. 22nd

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.¹	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	State of ground.§
Lerwick	976·2	+1	SSW	4	opro	45	85	6	4000	Cu	7	–	7	•
Stornoway	968·3	-1	SSE	3	o-	44	75	6	800	St	9	–	9	•
Wick	973·3	0	S	7	bc	43	92	8	2500	CuNb	4	ACu	6	•
Castlebay	965·3	-1	E	5	cpro	46	75	6	800	St	10	–	10	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	975·8	-3	S	5	oro	43	85	6	1500	Nb	10	–	10	1
Malin Head	961·0	-5	SE	7	o	44	97	8	5700	StCu	7	ASt	9	•
Renfrew	972·3	-3	SE	4	odod	45	85	6	1500	Nb	10	–	10	2
Edinburgh (Inchkeith)	973·9	-5	S	5	cpro	41	85	8	–	CuNb	8	–	8	•
Leuchars	974·9	-3	SSE	5	orr	42	85	7	1500	StCu	10	–	10	2
Eskdalemuir	975·3	-5	S	6	oRSRS	35	97	6	800	Nb	10	–	10	2
Tynemouth	981·1	-1	SSW	5	bc+	44	75	6	2500	St	3	ACu	6	•
Blacksod Point														•
Donaghadee	970·6	-4	SSW	6	or	46	85	7	800	St	6	ASt	10	•
Birr Castle	968·6	•	SE	4	orr	45	?	7	4000	CuNb	9	–	9	•
Holyhead	975·5	-4	S'W	8	oR	45	97	6	800	Nb	10	–	10	2
Liverpool (Bidston)	980·7	-1	S'E	4	o+	45	75	7	2500	CuNb	9	–	9	•
Chester (Shotwick)	981·7	-1	S	6	o/r	46	75	7	1500	St	10	–	10	2
Spurn Head	985·5	+1	SSE	6	bc/p	44	92	7	4000	CuNb	3	Ci	5	•
Nottingham	982·3	•	SW	5	bc	45	75	7	2500	Nb	1	Ci	5	•
Cranwell	987·7	-2	S'W	5	b/r	43	75	8	2500	CuNb	1	ACu	2	2
Gorleston	993·8	+2	SSW	5	bc-	47	85	7	4000	CuNb	5	–	5	•
Valencia (Cahirciveen)	973·5		SW'W	6	o/t/r	49	75	7	1500	St	6	ASt	9	2
Roches Point														•
Pembroke (St. Ann's H.)	981·3	-1	SSW	9	oPR-	48	75	8	1500	Nb	9	–	9	•
Ross-on-Wye	986·5	-4	SW	6	b	45	75	8	4000	Cu	2	Ci	3	1
Benson	989·8	-2	SSW	6	bc+	45	75	8	–	CuNb	5	–	5	2
Andover	991·6	0	SSW	8	OPR	44	85	8	1500	Cu	10	–	10	2
S. Farnborough	992·8	0	SW	7	oKQ	43	85	8	1500	Nb	9	–	9	2
London (Kew Obsy.)	992·8	0	SSW	4	cpro	50	65	7	1500	Nb	6	ACu	7	2
Croydon	993·1	-1	SW	5	b	49	75	7	2500	Cu	2	ASt	3	2
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	993·9	0	SW	6	bc+	49	75	8	5700	Cu	5	–	5	•
Grain	994·8	+1	SSW	6	bc+	49	75	8	4000	Cu	6	–	6	2
Lympne	995·4	-1	SW	5	o/r	48	85	7	800	St	9	–	9	2
Scilly (St. Mary's)	987·7	0	WSW	6	cPR	49	75	7	2500	CuNb	8	–	8	•
Falmouth (Pendennis)	987·5	0	WSW	8	ctl	49	75	7	4000	CuNb	7	–	7	•
Plymouth (Cattewater)														
Portland Bill	991·1	+2	SW	8	cPR-	49	75	6	1500	Cu	7	–	7	•
Southampton (Calshot)	992·8	-1	SWW	6	b/r	49	75	7	2500	CuNb	3	–	3	2
Dungeness	995·2	0	SW	7	bc	49	92	8	1500	Cu	5	–	5	•
Jersey	996·5	0	SW	5	bc	50	65	7	4000	StCu	4	-	4	•

Observations at 1800 G.M.T. 22nd

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	976·3	+1	SSW	6	c	45	75	7	4000	CuNb	7	–	7	5
Stornoway	966·0	0	SSE	1	o+	40	92	6	450	St	10	–	10	0
Wick	970·9	-4	SSW	8	bc/r	44	97	8	2500	CuNb	5	–	5	7
Castlebay	963·4	-1	E	3	orr	46	85	5	800	Nb	10	–	10	6
Nairn	969·6	•	–	0	c+	40	65	7	4000	Cu	7	–	7	•
Aberdeen	972·8	-3	S	6	orr	44	85	6	1500	Nb	10	–	10	4
Malin Head	958·4	-3	SSE	8	oR-	46	97	6	4000	Nb	10	–	10	6
Renfrew	968·9	0	S	5	odo	46	85	6	1500	Nb	10	–	10	•
Edinburgh (Inchkeith)	971·2	-2	S	3	opro	45	85	8	–	CuNb	6	ASt	10	3
Leuchars	971·3	-3	SE	5	o/r	43	85	7	1500	StCu	10	–	10	•
Eskdalemuir	973·3	+0	S'W	7	or-	43	97	5	800	Nb	10	–	10	•
Tynemouth	978·1	+1	SSW	5	bc-	40	75	6	–	–	0	ACu	5	4
Blacksod Point														
Donaghadee	970·0	0	SW	6	o	46	85	8	2500	St	10	-	10	6
Birr Castle	973·0	•	S	5	or	45	?	6	2500	Nb	9	-	9	•
Holyhead	976·8	+3	SSW	8	or	49	92	7	800	Nb	10	-	10	8
Liverpool (Bidston)	980·9	+2	S	5	c/r	45	85	9	2500	CuNb	7	-	7	6
Chester (Shotwick)	981·4	+2	SW'W	5	oro	47	75	7	1500	St	10	-	10	•
Spurn Head	985·3	-0	SSE	6	b	43	85	7	–	–	0	–	0	6
Nottingham	986·3	•	SW	4	b	44	85	7	–	–	0	–	0	•
Cranwell	988·1	+1	S'W	5	b	42	85	8	–	–	0	–	0	
Gorleston	994·9	0	S'W	6	b+	43	92	7	4000	CuNb	2	-	2	5
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	982·6	+2	SSW	9	oPR	49	75	8	1500	Nb	9	-	9	8
Ross-on-Wye	987·5	+1	SW'S	7	cdo	45	75	8	2500	StCu	8	-	8	•
Benson	991·5	+2	SSW	5	bc+	43	92	8	–	–	0	Ci	4	•
Andover	993·2	+1	S	5	bc/r	43	85	7	1500	CuNb	5	-	5	•
S. Farnborough	992·8	+2	SSW	6	orr	44	85	7	1500	Nb	10	-	10	•
London (Kew Obsy.)	993·2	+1	SSW	4	b	45	75	7	–	–	0	-	0	•
Croydon	994·2	+1	SSW	5	c/r	44	75	6	2500	StCu	7	-	7	•
Clacton-on-Sea	994·8	+1	SSE	5	bc+	45	92	7	2500	Cu	5	-	5	4
Shoeburyness	994·7	+1	SW	5	b+	45	75	8	4000	Cu	2	-	2	•
Grain	995·3	+2	SSW	4	bc-	46	85	8	4000	Cu	6	-	6	6
Lympne	996·7	+2	SW'S	6	b	45	85	8	1500	St	10	-	10	•
Scilly (St. Mary's)	987·8	0	SW	6	bcPR	48	75	7	4000	CuNb	6	-	6	8
Falmouth (Pendennis)	988·6	+4	WSW	8	cPH	48	75	7	4000	CuNb	7	-	7	7
Plymouth (Cattewater)	989·9	+1	SW	8	oro	49	75	7	1500	Nb	10	-	10	6
Portland Bill	991·1	0	SW	8	c/r	48	75	7	1500	Cu	7	-	7	8
Southampton (Calshot)	993·8	+2	SW	6	c/h	47	85	8	2500	CuNb	7	-	7	6
Dungeness	995·9	+1	SW	6	bc+	47	92	8	1500	Cu	4	-	4	7
Jersey	996·7	0	SW	5	bc	47	65	7	4000	StCu	4	-	4	6

London Observations.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 Hours ended 0900 G.M.T. 23rd								Yesterday.		To-day.
Kew	bccp	cmb	borc	•	•	41	1	1	3.0	•	•
Croydon (24 hours ended 0700)	bmbcq	czPRH	cbqorr	•	•	40	2	1	2.6	•	•
Greenwich (Royal Obsy.)	bo	orbcb	bcordb	49	44	36	0.3	0.3	4.0	73	84
City (Bunhill Row)	•	•	•	•	•	•	•	•	0.8	•	•
Westminster (St. James' Pk.)	•	•	•	51	44	40	1		3.9	77	84
Regent's Pk. (Botanic Gdns).	•	•	•	•	•	•	•	•	4.2	•	•
Camden Square	bc	r	•	51	43	40	2	-	•	•	87
Kensington Palace	bcoph	r.bcb	•	51	43	39	2	0.4	•	78(18)	85
Hampstead Observatory	•	•	•	49	42	34	1	0.5		•	89

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 22nd

	Max.	Time.	Min.	Time.
South Kensington	0.5	21st 18-21h.	<0.3	22nd 1-5h.
	0.6	22nd 10h.		
Kew Observatory	0.3	22nd 8h.	<0.3	22nd 2-5h.
	0.4	22nd 16h.		

Pole Star Record at Greenwich Obsy.

Exposure from 22nd 16h. 45m. to 23rd 07h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14.15	10.30	74
δ Ursae Minoris	14.15	9.33	67

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 today in 1300 & 1800 reports (Hoar frost in 0180 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).

Radio Disturbances (Atmospherics) at Croydon.¹

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	–	–	–	-
18h.	–	–	–	–
01h.	–	–	–	–
07h.	–	–	–	–

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

23rd & 24th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	11.52	3.39
	8.6	11.53	3.40
Greenwich	8.6	11.59	3.52
	8.7	12.0	3.53
Wick	9.4	12.11	3.18
	9.5	12.12	3.19
Valencia	8.50	12.40	4.30
	8.51	12.41	4.31

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, „ 200—1000 m.
F thick fog „ less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—

R = heavy rain.
rr = continuous moderate rain.
roro = continuous light rain.

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.

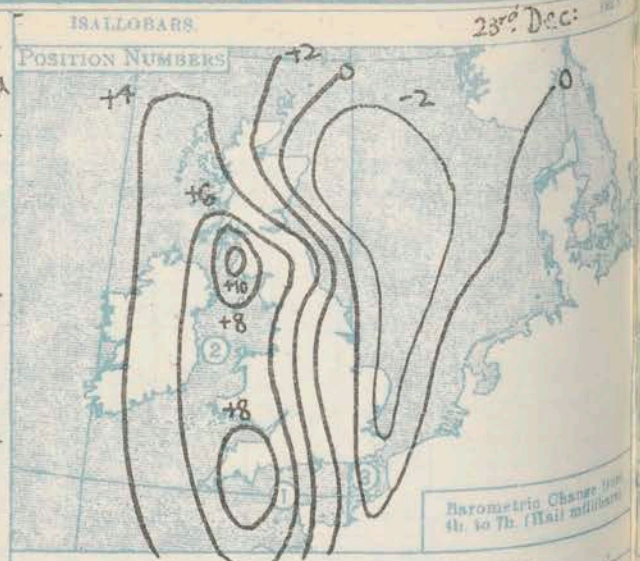
Sea Disturbance.
0 = no swell, 1 = mod. swell, 2 = heavy swell } Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell } Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

¹ For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 22nd	13h.-18h. 22nd	18h. 22nd to 1h. 23rd	1h.-7h. 23rd	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 22nd Hours.
Lerwick	cp	cq	omrq	cq	46	41	•	1	4	<0800	<2100	0.0
Stornoway	oo	c	c	oo	45	35	•	3	1	-	-	0.2
Wick	c	cRR	oRR	oo	44	43	•	0.5	2	1330	2200	•
Castlebay	p.r.bcop	op	opcb	fip	46	44	•	0.4	4	-	-	0.0
Nairn	bcoq	cq	cirq	cqR	43	39	•	-	5	-	2200	1.2
Aberdeen	copr.	irrq	rrqm	irqo	45	42	42	3	2	<0800	<2100	0.0
Malin Head	cogue	coRr	Rr	coPR	47	45	•	0.5	3	1630	<2100	0.0
Renfrew	copRor	or.oq	oqm	oRqb	46	42	37	2	6	<0800	<2100	0.0
Edinburgh (Inchkeith)	p	p	p	ooir.	45	43	42	1	trace	1630	-	0.0
Leuchars	coirq	oirq	r-d	r-d	44	42	37	1	1	<0800	<2100	0.0
Eskdalemuir	orsq	orhqR	or	orrm	43	37	36	12	8	<0800	<2100	0.0
Tynemouth	bbcm	cmq	mcoqm	ompq	43	42	39	-	trace	-	0530	•
Blacksod Point ...							•					•
Donaghadee	coir	oo	or	bcqp	47	41	•	1	6	0900	2400	•
Birr Castle ...	orrcq	oirq	oquR	oquR	47	40	39	2	4	<0800	<2100	•
Holyhead	bcoir	oirq	oirboir	oro.c	49	45	43	6	2	0900	<2100	0.0
Liverpool (Bidston) ...	bcp.c	copc	r-d		48	40	37	1	1	1530	<2100	0.4
Chester (Shotwick) ...	orirco prq	oo	or.oRRm	oR.r.	48	41	37	1	5	1100	<2100	•
Spurn Head	cpbcq	bcq	b.bc	cqpr.	44	41	•	0.2	trace	1100	0330	3.9
Nottingham	bbcp.	b.bc	b	cp	47	43	39	trace	0.1	0900	0430	2.7
Cranwell	bcqr	bcbb	bbcq	p	45	41	38	1	0.2	1100	0530	4.2
Gorleston	cqbcq	bq	bbc	bbcq	48	42	39	-	-	-	-	4.0
Valencia (Cahirciveen)	ortl											
Roches Point							•					•
Pembroke (St. Ann's H.)	coqsr	sqpr	oqpr	oqcqp	50	44	•	1	6	<0800	<2100	0.7
Ross-on-Wye	pzbcqb	bcqprq	bcqcqor	rbcporb	47	42	38	0.5	4	0900	2400	4.0
Benson...	bbcqq	bc	bcir	bcir	48	41	39	0.2	2	-	<2100	•
Andover	bccorr	nacPRbcq	bcbbcc	oorrop	48	40	38	2	5	1100	2400	2.4
S. Farnborough ...	cirkq	orrcbcqn	oir	bco	48	42	40	2	4	<0800	<2100	3.2
London (Kew Obsy.) ...	bccp	cmb	b.b	b.or.c	50	44	41	1	1	<0800	0430	3.0
Croydon	bmmbbc bq	bczRH	cbzmq	borrq	49	43	40	2	1	1430	0430	2.6
Clacton-on-Sea ...	bcbc	bccbc	bc.b.bc	bcbog	47	43	41	-	-	-	-	4.8
Shoeburyness	bbc	bcp	b.bc	co	50	42	39	-	-	-	-	5.9
Grain	b.bc	bcbbc	bc pb	bopod	49	43	36	-	0.2	-	0630	5.6
Lympne	r-d	ocbcb	bbcpr.	bccomr rr	49	42	40	0.1	2	0900	0330	3.8
Scilly (St. Mary's) ...	p	cqp	p	cqiR	51	44	•	3	4	<0800	<2100	0.3
Falmouth (Pendennis)	oirqc	opq	cpqbc	bcpop	49	44	•	2	4	<0800	<2100	1.7
Plymouth (Cattewater)		coprhr	opr.b	bocr	50	43	41	5	5	<0800	<2100	1.2
Portland Bill	bccqp	cqpc	coqr	cpbcq	50	42	•	2	5	1230	0330	•
Southampton (Calshot)	p	bcprhc	bbc	cbcir	49	44	44	1	4	1230	0230	4.2
Dungeness ...	cq	b.bc	bbcq	qr	49	44	•	0.3	2	<0800	0530	•
Jersey ...	bc	bc	b	dqrr	51	44	•	-	5	-	0230	4.7



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	
3	22nd 03h	Arundel	SSW	9	R	48	49	7
2	" 1005	Cambria	S	7	op	46	50	7
3	23rd 03h	Brighton	SW's	7	ojp	45	48	9

GENERAL INFERENCE.

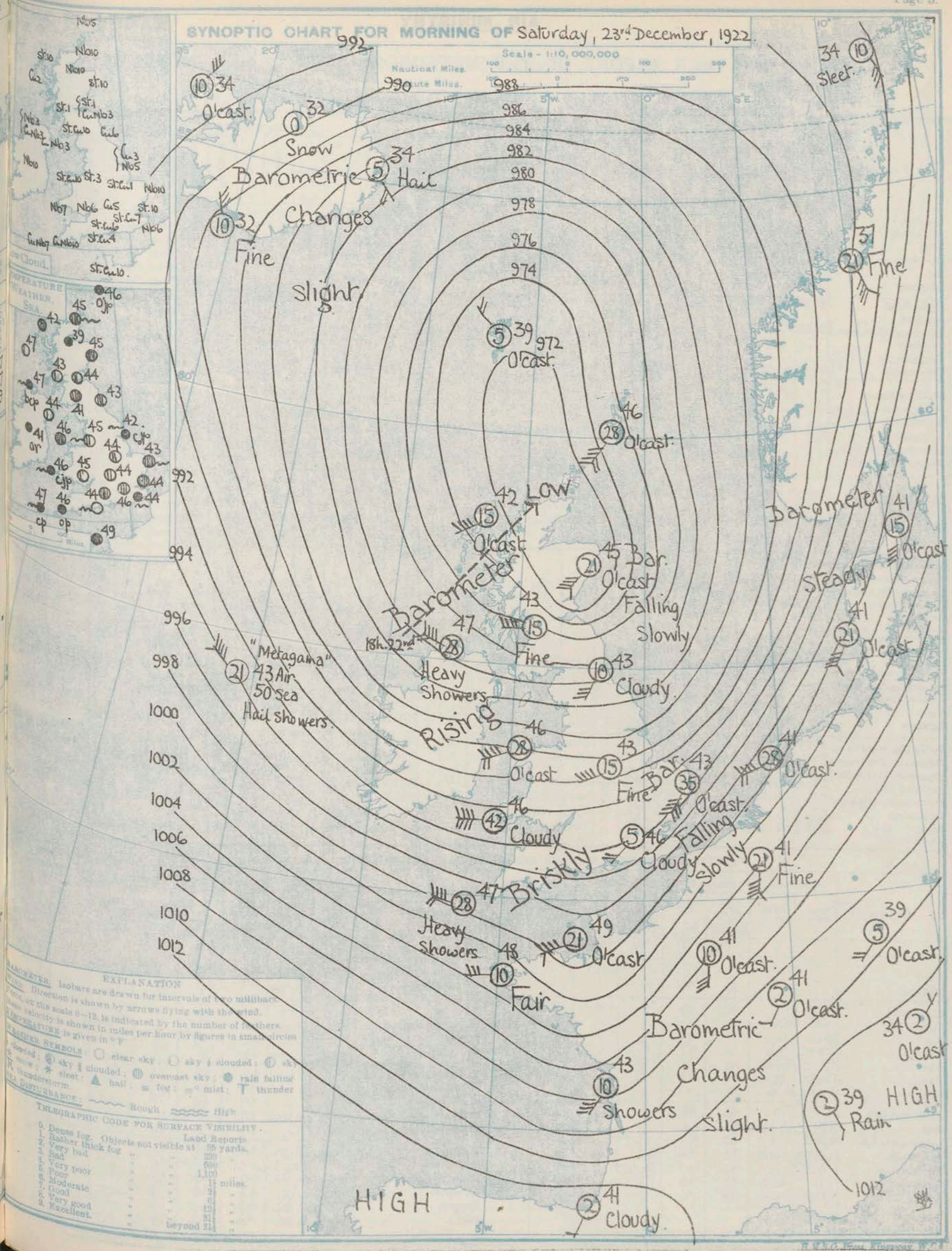
The large depression now centred near the Orkneys will continue to move northeastwards decreasing in intensity. The west to northwest wind will however continue strong for the next 24 hours and weather will be showery, with a thundery tendency.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday 23rd, December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind westerly strong to a gale at first moderating gradually; variable sky, some showers, thundery tendency; visibility good; moderate temperature.	
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind W. to N.W., strong to a gale at first, moderating gradually; variable sky, some showers, thundery tendency; visibility good; moderate temperature.	West to northwest winds with moderate to rather low temperature; unsettled but considerable fair periods. ------ South Cone still flying. ----
9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Fresh or strong W. to N.W. wind; variable sky, some showers, thundery tendency; visibility good; moderate temperature.	
14. N.E. & N.W. Scotland 15. Hebrides	As for 4 - 8.	
16. Orkneys and Shetlands 17. N.W. Ireland	Wind S.W., becoming N.W., strong to a gale, then moderating; showery; rather cold.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As for 9 - 13.	

E4/13

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.00 G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Saturday, 23rd December, 1922.
Scale - 1:10,000,000
Nautical Miles
992
990
988
986
984
982
980
978
976
974
972
994
996
998
1000
1002
1004
1006
1008
1010
1012
O'cast.
Snow
Barometric Changes
Hail
Fine
Slight
Sleet.
Fine
LOW
Barometer
Steady
Falling
Slowly
Bar.
Rising
Briskly
Heavy Showers
"Metagama"
43 Air
50 Sea
Hail showers.
Fine
Cloudy
Heavy showers
Fair
Showers
Baromeric Changes
Slight.
HIGH
Rain
HIGH
Cloudy.
EXPLANATION
TELEGRAPHIC CODE FOR SURFACE VISIBILITY.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...SATURDAY, 23RD DECEMBER 1922. No. 357...

Observations at 0100 G.M.T. 23RD

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	973.0	-3	SSW	6	or.c	45	92	6	2500	Nb	10	-	10	.
Stornoway	969.8	+2	SW	3	0	.	.	.	.	.	.	.	.	.
Wick	969.7	0	SSW	8	0	46	92	8	2500	Cu Nb	10	-	10	.
Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Aberdeen	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Malin Head	970.4	+16	NW	7	bcPR	47	92	8	5700	Nb	4	-	4	.
Renfrew	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Edinburgh (Inchkeith)	972.3	+2	SSW	4	bcpg	47	75	8	,	Sr	3	A.Sr	5	.
Leuchars	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eskdalemuir	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tynemouth	979.5	+4	SSW	4	0	45	85	6	-	-	0	A.Sr	10	.
Blacksod Point ...														.
Donaghadee	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Holyhead	978.1	+1	SW's	5	or	46	97	7	800	Nb	10	-	10	.
Liverpool (Sidston) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chester (Shotwick) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spurn Head	985.6	-1	SSE	7	bc	42	85	7	-	-	0	A.Sr	4	.
Nottingham	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cranwell	987.7	-1	S	5	b	42	92	7	2500	SrCu	2	-	2	.
Gorleston	994.7	0	SSW	5	b	43	85	7	-	-	0	-	0	.
Valencia (Cahirciveen)														.
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	984.1	+4	W	8	oPR	48	85	7	1500	Nb	10	-	10	.
Ross-on-Wye	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Benson...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Andover	.	.	.	.	.	.	.	.	.	.	.	.	.	.
S. Farnborough ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
London (Kew Obsy.) ...	.	.	.	.	.	45	.	.	.	.	.	.	.	.
Croydon	992.5	-4	SSW	6	b-	44	75	7	2500	SrCu	2	-	2	.
Clacton-on-Sea ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Shoeburyness	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Grain	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lympne	994.9	-1	SW	7	bc	43	92	8	800	Sr	4	-	4	.
Scilly (St. Mary's) ...	990.9	+5	WNW	8	CPR	48	85	7	2500	CuNb	8	-	8	.
Falmouth (Pendennis)	988.6	+2	WSW	6	bcPR	46	97	7	4000	CuNb	5	-	5	.
Plymouth (Cattewater)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland Bill	988.4	-5	SSW	8	orr	46	97	6	450	Sr	10	-	10	.
Southampton (Calshot)	992.1	-4	SSW	7	c+	47	75	8	2500	SrCu	8	-	8	.
Dungeness	995.3	-1	SW	8	c+	46	85	8	4000	Nb	7	-	7	.
Jersey 7h }	993.7	-2	S'W	7	0+	45	85	8	-	-	0	A.Sr	10	.
Guernsey 1h }														

Observations at 0700 G.M.T. 23RD

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea.
Lerwick	974.6	+2	SSW	6	ojp	46	85	7	4000	Nb	5	A.Sr	10	5
Stornoway	973.2	+5	SW	4	0	42	92	6	450	Sr	10	-	10	3
Wick	970.8	+2	SSW	9	0	45	92	8	2500	Nb	10	-	10	7
Castlebay	976.6	+5	NW	4	b	47	75	7	1500	Cu	2	-	2	4
Nairn	971.7	.	-	0	ORR	39	92	8	2500	Nb	10	-	10	.
Aberdeen	970.9	-2	S'W	5	0	45	85	6	1500	Sr	10	-	10	4
Malin Head	979.5	+5	WNW	6	bcPR	47	92	8	5700	Nb	6	-	6	6
Renfrew	976.8	+12	W	4	b/r	43	75	6	4000	Sr	1	-	1	.
Edinburgh (Inchkeith)	970.5	-2	WSW	6	bc-	44	85	8	*	Cu Nb	4	-	4	4
Leuchars	971.2	+3	W	6	bc/r	43	85	8	2500	SrCu	6	-	6	.
Eskdalemuir	977.8	+6	W's	5	o/r	41	85	6	2500	SrCu	10	-	10	.
Tynemouth	978.0	+6	SSW	3	bc/r	43	85	6	4000	Cu	6	-	6	2
Blacksod Point ...	981.4	+6	WSW	3	b/r	44	85	8	?	CuNb	3	-	3	2
Donaghadee	988.3	.	WSW	5	oR	41	?	5	450	Nb	10	-	10	.
Birr Castle	985.5	+6	WSW	6	0	46	85	8	1500	SrCu	10	-	10	5
Holyhead	984.7	+3	WSW	6	bc/r	45	85	8	2500	Sr	3	ACu	5	7
Liverpool (Sidston) ...	985.6	+5	WSW	3	bc/r	45	85	6	2500	SrCu	5	-	5	.
Chester (Shotwick) ...														
Spurn Head	983.5	+1	SSW	7	cjp	42	92	7	4000	Nb	8	-	8	6
Nottingham	986.6	.	WSW	4	b-	43	92	7	2500	SrCu	1	Cu	2	.
Cranwell	987.0	+1	SW's	4	b/r	41	97	6	2500	SrCu	3	-	3	.
Gorleston	991.7	-2	S'W	7	o+	43	85	7	4000	Nb	10	-	10	6
Valencia (Cahirciveen)														
Roches Point														8
Pembroke (St. Ann's H.)	991.3	+7	W	8	cjp	46	75	8	2500	Nb	7	-	7	.
Ross-on-Wye	990.0	+6	SW	5	bc	45	75	8	2500	Nb	6	-	6	.
Benson...	990.9	+4	SW	4	bc+	44	92	8	*	Cu	5	-	5	.
Andover	992.3	+3	SW	5	oPR	44	92	6	1500	SrCu	9	-	9	.
S. Farnborough ...	992.5	+3	SW	4	o/r	44	92	7	2500	SrCu	6	ACu	9	.
London (Kew Obsy.) ...	992.0	+3	SW	2	c/r	46	85	7	2500	SrCu	7	-	7	.
Croydon	992.8	+2	SSW	5	o/r	45	92	7	1500	SrCu	10	-	10	10
Clacton-on-Sea ...	992.4	-1	SSE	6	o+	44	92	7	4000	Sr	10	-	10	4
Shoeburyness	992.5	-3	SSW	6	o	44	85	7	2500	SrCu	10	-	10	.
Grain	993.1	-1	S'W	6	od.	45	92	7	2500	Nb	7	ASr	9	6
Lympne	994.2	-1	SSW	7	orr	43	97	6	225	Nb	10	-	10	.
Scilly (St. Mary's) ...	996.8	+6	WNW	6	CPR	47	75	7	4000	CuNb	7	-	7	8
Falmouth (Pendennis)	996.2	+8	W	4	oPR	46	75	7	4000	CuNb	6	-	6	3
Plymouth (Cattewater)	995.7	+8	W	3	cr.	45	85	8	1500	Sr	7	-	7	2
Portland Bill	992.8	+9	W's	8	bc/r	46	85	7	1500	SrCu	4	-	4	9
Southampton (Calshot)	993.3	+2	W	4	bc/r	45	85	8	2500	SrCu	5	-	5	3
Dungeness	993.1	-2	SW	8	bcrr	44	97	8	4000	Nb	6	-	6	8
Jersey 7h }	997.0	0	WSW	5	o/r	49	85	7	1500	SrCu	10	-	10	6
Guernsey 1h }														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 22ND DECEMBER.

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 21st–22nd °F.	Temperature. Max. Day. 22nd °F.	Rainfall.† Night 17h.–9h. 21st–22nd mm.	Rainfall.† Day 9h.–17h. 22nd mm.	Sunshine hr.	Sunshine. Sunrise to Sunset 22nd hr.
Banff								1.3
Montrose			39	45	4	1		0.4
Llandudno	orc	r	39	50	4	3		0.7
Colwyn Bay ...	cr	thr	42	38	7	7		0.0
Rhyl...	pbc	bcc	41	49	3	1		2.8
Southport	cear	co	39	47	4	1		0.0
Blackpool	thrc	cqor	40	47	6	3		0.0
Harrogate	rocbc	bco	38	44	6	-		1.3
Skegness	robc	c	41	47	8	3		4.6
Aberystwyth ...	roc	o	43	50	4	2		0.8
Bath	tthbc	bbc	42	48	10	1		2.0
Leamington Spa ...	orbtt	cbcq	39	47	15	-		3.8
Lowestoft	cordo	bpcb	42	48	12	1		3.1
Felixstowe	bc	b	42	47	Trace	-		5.3
Southend	b	bcb	42	49	7	-		4.6
Ilkley	ltcpc	bcbcc	38	46	1	-		1.4

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 21st–22nd °F.	Temperature. Max. Day. 22nd °F.	Rainfall.† Night 17h.–9h. 21st–22nd mm.	Rainfall.† Day 9h.–17h. 22nd mm.	Sunshine hr.	Sunshine. Sunrise to Sunset 22nd hr.
Paignton	bcrq	bcq	46	49	13	Trace		2.2
Ilfracombe	b.bcp	bccdp	44	48	8	0.1		0.4
Bude	pbct	prhbc	44	53	14	18		1.6
Penzance	orc	copc	44	50	4	2		1.8
Falmouth Observatory	bcq	bcqpk	41	49	7	Trace		1.9
Torquay	p	pkc	46	49	35	Trace		3.8
Weymouth	bcpq	pcpcq	45	51	17	1		5.6
Bournemouth ...	p	p	42	50	21	3		4.3
Portsmouth (S'thsea)	b	phb	44	51	20	1		3.9
Worthing	bbc	c	44	50	15	-		2.7
Brighton	b	bbcco	39	49	1	-		3.0
Eastbourne	cbc	bc	45	50	10	-		2.5
Hastings	ocbc	bbcco	43	48	13	-		2.0
Folkestone	r	bc	44	49	10	-		3.4
Tunbridge Wells ...	oc	cbc	40	48	27	-		1.1
Ramsgate	obc	bc	42	49	10	-		2.6
Margate	oc	bc	43	50	8	-		
Deal	obcb	bbc	43	48	20	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22312 SUNDAY, 24th DECEMBER 1922.

Observations at 1300 G.M.T. 23rd

STATIONS.	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	State of ground.
Lerwick	976.7	+1	S	4	c-	45	85	7	4000	Cu	6	Ci.Cu	7	*
Stornoway	979.6	+6	WNW	3	c-	43	92	6	4000	Nb	8	-	8	*
Wick	976.0	+5	NW	4	ore	42	97	8	2500	Nb	10	-	10	*
Castlebay	986.0	+6	W	4	bc	47	75	8	2500	Cu	3	A.St	4	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	978.8	+10	WSW	3	o-	44	85	7	2500	St.Cu	3	A.St	9	1
Malin Head	986.1	+5	W	5	obr.	46	85	8	4000	Nb	9	-	9	*
Renfrew	984.1	+7	WSW	3	c	45	85	7	2500	St.Cu	7	Ci	8	2
Edinburgh (Inchkeith)	982.1	+10	WSW	4	c+	45	85	7	-	St	3	Ci	7	*
Leuchars	981.1	+8	W	5	bc	47	85	8	-	-	0	Ci	6	2
Eskdalemuir	985.4	+5	SW'S	4	ojp	42	92	7	1500	St.Cu	10	-	10	2
Tynemouth	985.7	+3	W	2	o	46	85	6	4000	St.Cu	10	-	10	*
Blacksod Point ...														*
Donaghadee	987.1	+5	WSW	3	o-	44	85	8	1500	St	3	A.St	9	*
Birr Castle	993.9	*	W	4	c/r	43	?	8	4000	St.Cu	7	-	7	*
Holyhead	990.0	+3	W'S	7	oRR	43	92	7	800	Nb	10	-	10	2
Liverpool (Bidston) ...	990.5	+4	WSW	4	obr.	42	85	7	1500	Nb	8	-	8	*
Chester (Shotwick) ...	990.9	+4	WSW	5	cr.	45	75	8	1500	St	8	-	8	2
Spurn Head	990.4	+5	SW	6	bc	46	75	7	4000	St.Cu	4	-	4	*
Nottingham	992.5	*	SW	4	o+	45	85	7	1500	St.Cu	9	-	9	*
Cranwell	992.9	+4	SW	4	o	45	85	8	1500	St.Cu	10	-	10	1
Gorleston	995.8	+3	SW	4	c+	47	75	6	4000	CuNb	7	-	7	*
Valencia (Cahirciveen)	999.7	+4	WNW	5	b-	45	65	8	2500	St.Cu	2	-	2	1
Roches Point														*
Pembroke (St. Ann's H.)	996.3	+3	W	7	o	46	75	8	2500	St	9	-	9	*
Ross-on-Wye	995.7	+4	WSW	4	c	45	65	8	4000	St.Cu	8	-	8	1
Benson	999.0	+4	SSW	5	bc	47	75	7	-	Cu	5	-	5	2
Andover	999.2	+5	SW'W	5	bc-	46	75	8	2500	Cu	4	Ci	6	1
S. Farnborough ...	999.3	+5	WSW	4	o	46	75	7	2500	Cu	9	-	9	2
London (Kew Obsy.) ...	997.2	+5	WSW	3	c+	47	75	6	4000	Cu	6	A.Cu	8	1
Croydon	998.1	+4	WSW	3	o+	46	75	7	2500	St.Cu	7	Ci	9	2
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	999.3	+5	SSW	5	c-	47	75	7	4000	St.Cu	8	-	8	*
Grain	997.9	+4	SSW	4	o	47	85	8	1500	St	3	A.St	9	2
Lympne	999.8	+4	SW'W	4	c	47	85	8	2500	St	2	A.St	7	2
Scilly (St. Mary's) ...	1000.1	+3	W	5	bc	48	65	7	4000	Cu	4	-	4	*
Falmouth (Pendennis)	1000.3	+3	WSW	4	cbr.	47	65	7	2500	CuNb	5	Ci	7	*
Plymouth (Cattewater)	999.7	+2	W	4	bc	47	65	7	2500	CuNb	4	-	4	1
Portland Bill	997.6	+5	W	7	bc	47	85	7	-	-	0	Ci.Cu	4	*
Southampton (Calshot)	999.0	+4	W'S	5	b	48	75	8	4000	Cu	1	Ci	3	1
Dungeness	998.7	+5	SW	4	c/r	48	85	8	-	-	0	Ci.Cu	7	*
Jersey	1001.9	+2	WSW	5	b/r	48	75	7	2500	St.Cu	3	-	3	*

Observations at 1800 G.M.T. 23rd

STATIONS.	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
Lerwick	979.5	+5	-	0	0	43	92	6	5700	St.Cu	6	A.St	10	0
Stornoway	986.4	+7	NW	3	bc-	43	85	6	4000	Cu	6	-	6	1
Wick	983.1	+11	NNW	3	obr	42	92	8	2500	Nb	9	-	9	3
Castlebay	989.9	+8	NW	3	bc	45	85	6	1500	Nb	4	-	4	3
Nairn	986.4	*	W	1	bc/r	41	92	8	1500	St.Cu	6	-	6	*
Aberdeen	986.5	+8	SW	2	b	41	85	6	-	-	0	Ci	1	1
Malin Head	991.3	+5	WNW	5	cPH	45	92	8	5700	Nb	8	-	8	5
Renfrew														*
Edinburgh (Inchkeith)	987.3	+6	WSW	4	mo-	43	85	7	-	-	0	A.St	9	2
Leuchars	987.4	+7	WSW	2	b	37	92	7	-	-	0			*
Eskdalemuir	991.1	+6	-	0	o-	38	92	7	1500	St.Cu	9	-	9	*
Tynemouth	990.6	+5	W	1	bc-	43	97	5	-	-	0	A.St	4	1
Blacksod Point ...														*
Donaghadee	992.4	+6	WSW	4	bc-	41	85	8	4000	Cu	3	A.Cu	6	2
Birr Castle	999.6	*	WSW	1	bc-	37	?	6	4000	St.Cu	6	-	6	*
Holyhead	994.0	+6	W'N	7	oRR	45	85	7	800	Nb	10	-	10	6
Liverpool (Bidston) ...	993.4	+3	SW'W	5	o/r	40	97	7	1500	Nb	10	-	10	6
Chester (Shotwick) ...														
Spurn Head	995.0	+5	SW'S	5	b-	42	85	8	-	-	0	A.Cu	2	5
Nottingham	996.4	*	WSW	5	o	43	85	6	1500	St.Cu	9	-	9	*
Cranwell	996.8	+4	SW'S	4	c	42	85	7	1500	St.Cu	8	-	8	*
Gorleston	999.6	+2	SW	3	b-	42	85	6	-	-	0	-	0	1
Valencia (Cahirciveen)	1005.0	+7	WNW	4	b	43	65	7	2500	St.Cu	2	-	2	6
Roches Point														*
Pembroke (St. Ann's H.)	1006.2	+5	W	6	cjp	45	75	8	1500	Nb	8	-	8	7
Ross-on-Wye	999.4	+4	WSW	3	o+	42	75	8	4000	St.Cu	3	A.St	9	*
Benson	1000.8	+5	SW	3	o-	41	85	8	-	Cu	1	-	1	*
Andover	1001.4	+4	SSW	3	b-	39	85	8	2500	St	1	Ci	2	*
S. Farnborough ...	1001.4	+3	SW	3	b	40	85	7	-	-	0	Ci	3	*
London (Kew Obsy.) ...	1001.1	+4	WSW	3	bc/r	43	75	6	-	-	0	A.Cu	3	*
Croydon	1001.2	+4	SW	3	o	43	85	6	2500	St.Cu	3	Ci.St	9	*
Clacton-on-Sea ...	1006.2	+4	SW	4	bc-	43	92	7	-	-	0	A.Cu	4	2
Shoeburyness	1006.7	+4	SW	4	b-	43	85	7	5700	Cu	3	-	3	*
Grain	1001.4	+4	SSW	3	b-	39	85	8	2500	St	1	Ci	2	4
Lympne	1001.9	+3	WSW	3	o	41	97	7	2500	St	5	A.St	9	*
Scilly (St. Mary's) ...	1004.7	+5	W	5	bc	45	75	8	4000	Cu	5	-	5	6
Falmouth (Pendennis)	1003.5	+6	W	3	bc-	43	75	7	4000	CuNb	5	-	5	3
Plymouth (Cattewater)	1003.6	+5	WNW	4	b-	44	75	7	2500	St.Cu	2	-	2	1
Portland Bill	1001.0	+5	W	6	bc	47	85	7	-	-	0	Ci.Cu	4	6
Southampton (Calshot)	1001.4	+5	W'S	3	b-	44	75	8	-	-	0	Ci	3	1
Dungeness	1001.8	+4	SW	5	c-	46	85	8	2500	Cu	7	-	7	5
Jersey	1004.4	+1	WSW	5	bc/r	46	75	7	-	-	0	A.St	5	6

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °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. %
	24 HOURS ENDED 0300 G.M.T. 24th								YESTERDAY.	TO-DAY.	
Kew	cbmcm	czcpbl	bbx	*	*	28	tr	-	3.0	*	*
Croydon } 24 hours ended 0700	0	oc2	b	*	*	32	-	-	1.5	*	*
Greenwich (Royal Obsy.) ...	b	co	bwxm	48	35	29	-	-	2.6	73	82
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.1	*	*
Westminster (St. James' Pk.)	*	*	*	49	34	26	-	-	2.8	74	84
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	3.6	*	*
Camden Square...	b	o	*	48	34	31	-	-	*	*	91
Kensington Palace	bc	o	*	49	35	26	-	-	*	85(18h)	89
Hampstead Observatory ...	*	*	*						3.5	*	

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 HR. ended 1800 G.M.T. 23rd

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from .....h.....m. to .....h.....m.

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

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 1800 reports (Hoar frost in 0300 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 frost rain or melted snow)

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time	Type.	No. per sec.	Strength.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.			-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

24th & 25th December, 1922.

STATIONS.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	8.6	11.53	3.40
	8.6	11.53	3.41
Greenwich ...	8.7	12.0	3.53
	8.7	12.0	3.53
Wick	9.2	12.12	3.19
	9.5	12.12	3.19
Valencia ...	8.51	12.41	4.31
	8.51	12.41	4.32

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
ip precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—

R = heavy rain.
rr = continuous moderate rain.
ro/o = continuous light rain.

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.

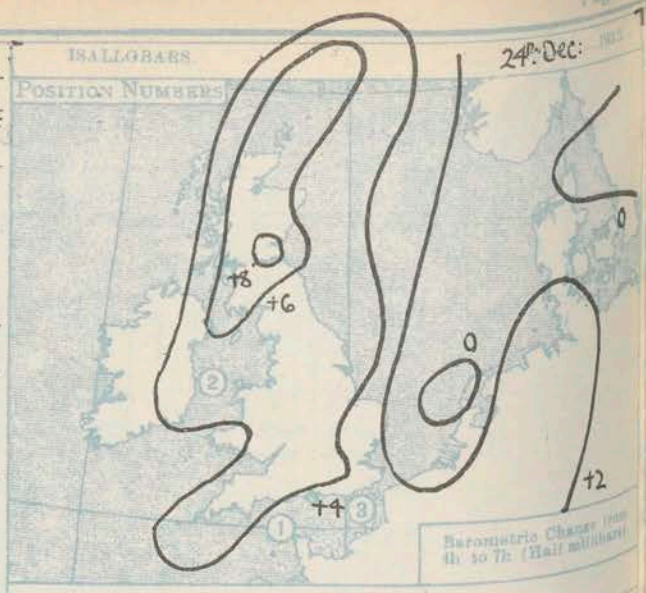
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

‡ For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 23rd	13h.-18h. 23rd	18h. 23rd to 1h. 24th	1h.-7h. 24th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 24th Hours.
Lerwick	cqpr	cm	bcp	cqpr	46	39	•	trace	2	<0800	<2100	0·0
Stornoway	p	p	b-bc	bcpr	44	35	•	-	3	1230	-	0·0
Wick	orr	opr	bcp.	bcpo	45	34	•	9	2	<0800	<2100	•
Castlebay	[illegible]	[illegible]					•	trace	-			
Nairn	rgc	cg	cg	cdq	43	36	•	1	0·2	<0800	-	0·1
Aberdeen	Rro	ocbcb	bm	bmbt	46	38	31	4	-	<0800	-	1·3
Malin Head	copr.	oPHR	cPR	bcPR	48	41	•	2	2	0900	<2100	0·0
Renfrew	opobcc	coom	om	oprc	46	33	28	0·1	0·5	<0800	5·30	1·4
Edinburgh (Inchkeith)	bc	zz	biz	b	46	39	34	-	trace	-	-	3·4
Leuchars	bbc	bbc	bbx	bb	47	33	20	-	-	-	-	5·5
Eskdalemuir	oc	oo	oc	cbcb	42	34	27	-	trace	-	<2100	0·0
Tynemouth	oomm	oom	bmffm	bcm	46	37	30	-	-	-	-	•
Blacksod Point ...							•					•
Donaghadee	oir.	c	c	bcq	45	39	•	0·6	-	1100	-	•
Birr Castle ...	iRr.	co	cirbc	cirbc	45	35	30	1	2	<0800	<2100	×
Holyhead	orrRR	orrRRq	omco	ooc	46	42	41	13	0·2	<0800	<2100	0·0
Liverpool (Bidston) ...	bcpc	opq		or	45	39	35	1	12	1100	<2100	0·4
Chester (Shotwick) ...	bccoc		oRR	olrm		38	36		6		<2100	•
Spurn Head	c	bbc	bco	b-bc	46	39	•	-	trace	-	1·30	3·9
Nottingham	c	cp	r	rro	46	40	38	trace	6	1730	<2100	1·9
Cranwell	bcc	ocbbc	corr	rrobr	46	37	36	-	11	-	<2100	2·4
Gorleston	c	cbcb	bw	orrcd	48	38	35	-	5	-	1·30	0·9
Valencia (Cahirciveen)	cbcb	cphb	bcpq	bbcp	45	39	33	1	0·3	<0800	-	2·7
Roches Point							•					•
Pembroke (St. Ann's H.)	coq	c	cbc	coqpr	49	39	•	trace	7	1630	330	1·7
Ross-on-Wye	cbcrc	pcbcc	ocb	bvbcv	47	36	31	trace	-	1330	-	3·5
Benson...	b	bcb	bobc	bxbx	48	31	24	0·1	-	-	-	•
Andover	cbc	bcb	b	bx	47	31	22	trace	-	<0800	-	4·2
S. Farnborough ...	oo	ocbcb		b-bc	47	31	23	-	-		-	2·7
London (Kew Obsy.) ...	cbmcm	czopbc	bc3b	bbx	47	35	28	trace	-	1530	-	3·6
Croydon	o	ocz	obm	b	48	37	32	-	-	-	-	1·5
Clacton-on-Sea ...	ogc	cbc	bccbc	bcb	46	37	33	-	-	-	-	1·4
Shoeburyness	oc	cbcb	b	b	48	35	32	-	-	-	-	1·6
Grain	apdol	bcb	cbcbb	bb	47	35	28	trace	-	<0800	-	0·7
Lympne	orrm	c	ocbc	bx	48	32	26	2	-	<0800	-	1·5
Scilly (St. Mary's) ..	cbcqp	bcqph	bcqp	bcqp	48	41	•	0·4	1	<0800	<2100	2·1
Falmouth (Pendennis)	opc	cbc	pcbp	bp	48	39	••	0·4	2	<0800	<2100	2·8
Plymouth (Cattewater)	cprb	bcoprb						0·6		<0800		
Portland Bill	bc	bc	b-bc	b-bc	50	40	•	-	-	-	-	•
Southampton (Calshot)	b	cbcb	b	b-bc	49	37		-	-	-	-	2·7
Dungeness ..	c	c	b-bc	p	49	40	•	0·1	1	<0800	2·30	•
Jersey	ocqpb	bcqpb	oqrrb	b	49	38	•	1	5	0900	2200	1·3



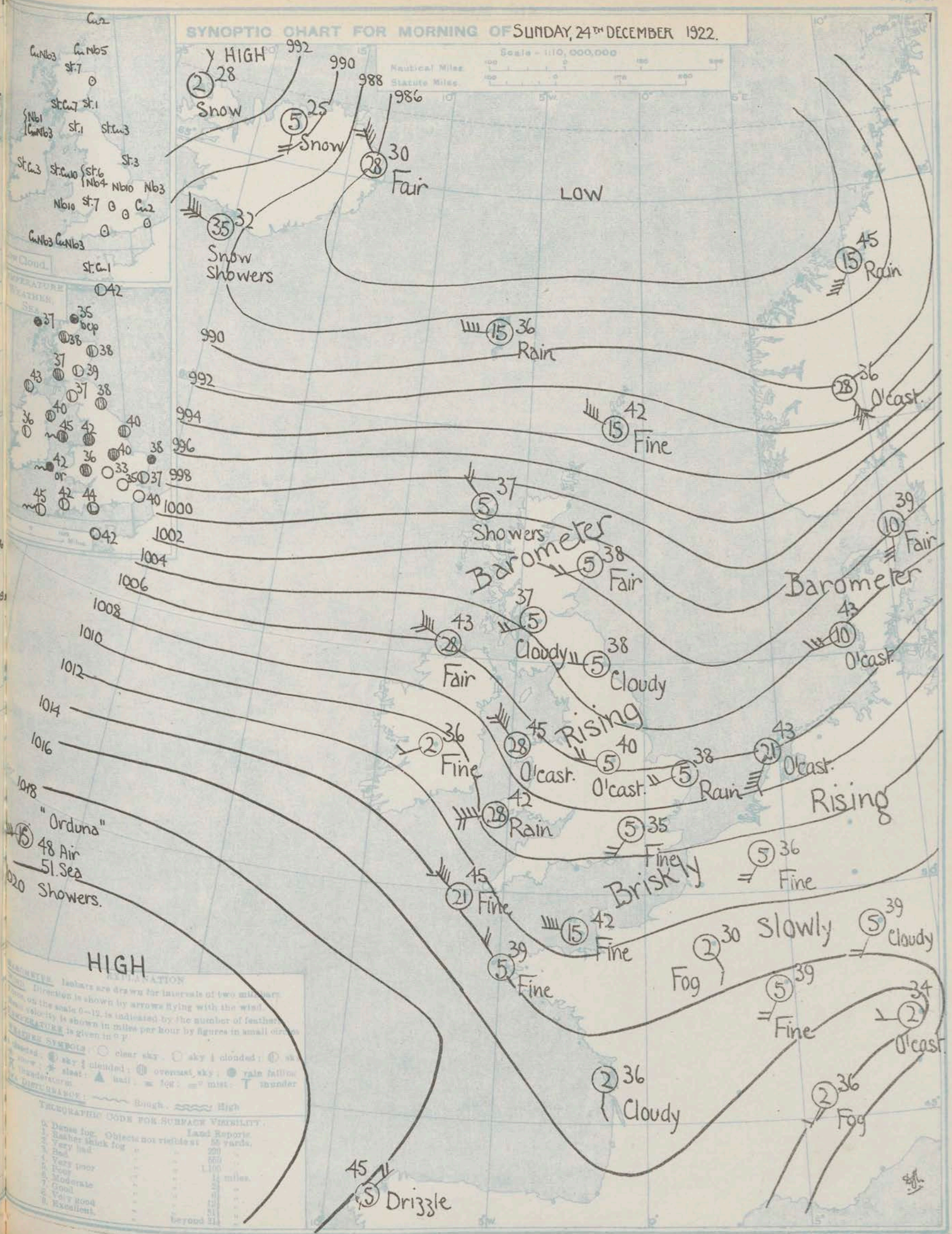
Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	23rd 1000	'Cambria'	W	6	cp	43	50	7
1	23rd 1300	'Ibex'	WNW	6	*H(R)	49	51	6
3	24th 0300	'Arundel'	WSW	5	bc-	46	49	8

GENERAL INFERENCE.

The main depression off the Norwegian coasts will continue to move northeastward and winds will be mainly from W. and NW., fresh to strong in places during the day. Secondaries will cause rain or sleet showers at times but bright periods are likely in all districts, and frost will occur inland at night

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday December, 24th, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh winds from between SW. & W., veering to N.W. later; occasional showers not improbable, but considerable bright periods; visibility moderate to good; rather cold with slight frost at night.	Unsettled and cold.
5. S.W. England 6. South Wales	Moderate or fresh W. to NW. winds; occasional showers, with some bright periods; visibility good; rather cold, slight frost inland at night.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Moderate or fresh W. to NW winds, stronger at times; some showers of hail or sleet with bright intervals, visibility good; rather cold with frost inland at night.	
19. S.E. Ireland 20. S.W. Ireland	Same as 5 - 6.	


SYNOPTIC CHART FOR MORNING OF SUNDAY, 24TH DECEMBER 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
992
990
988
986
LOW
Snow
Snow
Fair
Snow Showers
Rain
Rain
O'cast.
Fine
Showers
Barometer
Fair
Fair
Cloudy
Cloudy
Fair
Fair
O'cast.
Rising
Fine
O'cast.
O'cast.
Rain
O'cast.
Rain
Fine
Rising
"Orduna"
48 Air
51 Sea
Showers.
Fine
Briskly
Fine
Fine
Slowly
Cloudy
Fog
Fine
O'cast.
Cloudy
Fog
HIGH
Drizzle

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION.....SUNDAY, 24TH DECEMBER 1922. No. 358

Observations at 0100 G.M.T. 24th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	986·7	+3	W	3	bc/r	43	85	7	5700	StCu	3	–	3	•
Stornoway	996·4	+6	NW	3	bc-	•	•	6	•	•	•	•	•	•
Wick	992·2	+8	W	3	bcp.	37	92	8	2500	CuNb	4	–	4	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	999·6	+6	WNW	5	bc/r	45	92	8	5700	Nb	5	–	5	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	996·8	+6	W	3	i/b	40	92	6	–	–	0	–	0	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	996·5	+5	W	1	b/f	39	97	6	–	–	0	–	0	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	1001·1	+5	W'N	6	o/r	44	85	8	2500	StCu	10	–	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	998·3	+3	SW'W	3	op.	40	92	7	–	–	0	ASt	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	1000·7	+3	W	5	orr	37	97	6	800	Nb	10	–	10	•
Gorleston	1000·3	+2	SW	4	o+	38	85	7	4000	St	10	–	10	•
Valencia (Cahirciveen)	1011·5	+3	NW	6	bc	45	97	7	–	Nb	5	–	5	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1005·9	+5	W	6	bc	44	75	8	4000	Cu	4	–	4	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	37	•	•	•	•	•	•	•	•
Croydon	1005·6	+3	WSW	4	b	39	85	7	–	–	0	–	0	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1006·6	+4	W	4	b	36	92	8	–	–	0	ASt	2	•
Scilly (St. Mary's) ...	1009·1	+6	NW'N	6	bcp.	48	75	8	4000	CuNb	4	–	4	•
Falmouth (Pendennis)	1009·1	+4	W	2	b	42	75	8	–	–	0	–	0	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1006·5	+5	W	6	b	44	85	7	–	–	0	CiCu	2	•
Southampton (Calshot)	1006·8	+4	W	3	b	38	85	8	–	–	0	–	0	•
Dungeness	1005·8	+3	WSW	3	b	42	92	8	–	–	0	–	0	•
Jersey (7h)	1008·6	+3	WSW	4	bcfb	41	85	6	–	–	0	ASt	5	•
Guernsey (1h)														

Observations at 0700 G.M.T. 24th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	992·6	+7	WNW	4	b	42	75	7	4000	Cu	2	–	2	3
Stornoway	998·3	+3	NW	2	bcfb.	37	85	6	4000	CuNb	3	–	3	1
Wick	998·0	+6	WSW	3	ocp.	35	92	8	2500	CuNb	5	–	5	0
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	1000·2	•	–	0	c	35	85	8	1500	St	7	–	7	•
Aberdeen	1000·5	+5	WSW	2	bc+	38	75	6	–	–	0	Ci	5	0
Malin Head	1004·4	+3	WNW	6	bc/r	43	85	8	5700	CuNb	4	–	4	5
Renfrew	1003·4	+6	SW	2	c/r	37	97	7	2500	StCu	7	–	7	•
Edinburgh (Inchkeith)	1002·2	+7	SW	2	b/f	39	92	8	–	St	1	–	1	2
Leuchars	1001·7	+8	WNW	2	b	34	92	8	5700	StCu	1	–	1	•
Eskdalemuir	1003·8	+5	W	3	b	37	85	7	2500	St	1	–	1	0
Tynemouth	1002·5	+5	W	2	c+	38	92	6	4000	StCu	3	ASt	8	
Blacksod Point ...	1006·0	+6	WSW	3	bc-	40	85	8	2500	Cu	4	–	4	2
Donaghadee	1010·3	•	SW	1	bc/r	36	–	6	4000	StCu	3	–	3	•
Birr Castle	1006·7	+5	NW'N	6	o	45	85	8	2500	StCu	10	–	10	6
Holyhead	1005·7	+5	WNW	3	o/r	42	97	8	1500	St	10	–	10	4
Liverpool (Bidston) ...	1004·9	+8	WNW	3	o/r	41	97	7	1500	StCu	10	–	10	•
Chester (Shotwick) ...														
Spurn Head	1003·3	+5	SW'W	4	c+	40	97	7	2500	St	3	ACu	7	4
Nottingham	1005·6	•	W	2	o	40	97	5	1500	Nb	10	–	10	•
Cranwell	1005·6	+5	WSW	3	bcp.	39	92	7	1500	Nb	5	ASt	6	0
Gorleston	1006·1	+1	WSW	2	bcr.r.	38	92	7	2500	Nb	3	ASt	6	7
Valencia (Cahirciveen)	1014·2	+3	W	4	bc	45	75	7	2500	St	3	–	3	
Roches Point	1009·0	+3	W	6	orr	42	92	8	800	Nb	10	–	10	6
Pembroke (St. Ann's H.)	1008·3	+4	SW	2	c+	36	85	9	2500	St	7	–	7	•
Ross-on-Wye	1008·7	+3	SW	3	b	33	97	8	–	–	0	–	0	•
Benson...	1008·5	+4	SW	3	b	33	92	8	2500	St	1	–	1	•
Andover	1008·9	+4	SWW	3	b	33	92	8	–	–	0	–	0	•
S. Farnborough ...	1009·5	+4	SW	2	b	35	85	7	–	–	0	–	0	•
London (Kew Obsy.) ...	1009·8	+4	SW'W	3	b	38	85	7	–	–	0	–	0	•
Croydon	1007·6	+3	W	3	b	37	85	7	2500	Cu	2	–	2	2
Clacton-on-Sea ...	1008·5	+4	W	1	b	36	85	7	–	–	0	–	0	•
Shoeburyness	1009·1	+5	SW	4	b	36	85	8	–	–	0	ASt	1	3
Grain	1009·3	+3	W	4	b	33	92	7	–	–	0	ASt	1	•
Lympne														
Scilly (St. Mary's) ...	1013·2	+5	NW	5	bc	45	75	8	4000	CuNb	3	–	3	6
Falmouth (Pendennis)	1012·1	+4	WNW	3	bc	42	75	8	1500	CuNb	3	–	3	1
Plymouth (Cattewater)														
Portland Bill	1008·7	+4	WNW	6	b	44	85	7	–	–	0	CiCu	1	5
Southampton (Calshot)	1009·8	+3	W	3	b	37	85	8	–	–	0	–	0	0
Dungeness	1008·9	+3	W	3	b	40	92	8	–	–	0	–	0	3
Jersey (7h)	1011·5	+1	W	4	b/r	42	75	7	2500	StCu	1	–	1	4
Guernsey (1h)														

* WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 23RD DECEMBER

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 22h.-23h. °F.	Temperature. Max. Day 23h. °F.	Rainfall.† Night 17h.-9h. 22h.-23h. mm.	Rainfall.† Day 9h.-17h. 23h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 23h. hr.
Banff								
Montrose	–	–	41	47	2	0·1		4·6
Llandudno	r	r	40	48	5	9		0·0
Colwyn Bay ...								
Rhyl	cr	rc	40	49	4	5		0·1
Southport	codr	odr	41	47	5	1		0·0
Blackpool	orq	orq	41	45	6	1		0·0
Harrogate	co	oc	39	48	3	–		0·4
Skegness	bbc	b	41	48	–	–		3·5
Aberystwyth ...	r oo	o	42	48	8	–		0·0
Bath	cbcb	cbcb	44	48	2	–		2·3
Leamington Spa ...	c	c	40	47	3	–		2·3
Lowestoft	oc	cbrcbc	43	48	0·2	–		0·8
Felixstowe	obc	ob	42	47	1	–		1·9
Southend	b	bcc	42	47	–	–		1·1
Ilkley	oropg	opod	41	45	5	0·3		0·0

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night 22h.-23h. °F.	Temperature. Max. Day 23h. °F.	Rainfall.† Night 17h.-9h. 21h.-23h. mm.	Rainfall.† Day 9h.-17h. 23h. mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset 23h. hr.
Paignton	bcc	bcb	43	50	5	–		3·7
Ilfracombe	oco	ocpbh	44	48	4	0·3		1·9
Bude	iRH	bciP	43	48	5	1		2·6
Penzance	bc	pbcb	44	50	5	0·1		3·6
Falmouth Observatory	bc	bcph	43	48	6	0·5		2·3
Torquay	bcpc	b	48	50	6	0·1		4·1
Weymouth	bc	c	45	49	8	–		4·2
Bournemouth ...	b	b	42	47	5	–		3·6
Portsmouth (S'thsea)	b	b	?	49	5	–		3·5
Worthing	bc	bc	45	48	2	–		1·1
Brighton	o	cbcbc	40	48	2	–		1·4
Eastbourne	cbc	o	45	49	2	–		1·3
Hastings	oc	cbcco	44	49	3	–		1·1
Folkestone	bc	bc	42	49	–	–		1·6
Tunbridge Wells ...	cobc	bcb	43	47	1	–		0·7
Ramsgate	o	obcc	42	48	1	0·2		0·9
Margate	o	c	44	49	2	–		4·4
Deal	oro	bcc	43	49	4	–		2·0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22313 MONDAY 25TH DECEMBER 1922.

Observations at 1300 G.M.T. 24th (left) / Observations at 1800 G.M.T. 24th (right)

STATIONS.	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	State of ground.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	996.9	+1	WNW	4	bcvs	40	75	7	4000	CuNb	5	-	5	*	998.0	+1	WSW	4	bcjp	39	75	7	4000	CuNb	4	A.Cu	6	3
Stornoway	999.4	-1	W	3	bcprs	37	92	6	4000	CuNb	6	-	6	*	999.3	-1	-	0	opls	40	85	6	800	St	10	-	10	0
Wick	1000.1	+1	WSW	3	bc-	37	85	8	4000	Cu	3	Ci	4	*	999.8	0	WSW	2	bc	36	92	8	4000	CuNb	3	Ci.Cu	8	3
Castlebay	*													*														
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.6	*	W	3	bc	39	45	8	4000	Cu	4	-	4	*
Aberdeen	1003.4	+1	SW	2	b-	41	75	6	-	-	0	A.Cu	3	1	1003.4	0	SW	2	o	39	85	6	5700	St.Cu	10	-	10	0
Malin Head	1005.8	+2	WSW	5	bc/r	43	92	8	4000	Cu	2	Ci.Cu	4	*	1003.1	-3	SSW	6	o	42	92	8	2500	St	3	A.St	10	4
Renfrew	1006.2	0	SW	3	c+	44	75	6	4000	St	8	-	8	2	1006.0	-1	SW	2	o+	42	92	6	4000	St.Cu	8	A.St	10	*
Edinburgh (Inchkeith)	1005.3	+2	WSW	3	bc+	42	75	7	-	Cu	6	-	6	*	1005.3	+1	WSW	4	bc	41	85	8	-	-	0	A.Cu	4	3
Leuchars	1004.3	+1	WSW	4	b	40	85	6	-	-	0	A.Cu	2	1	1005.0	0	WSW	3	b	37	92	6	-	-	0	Ci.St	3	*
Eskdalemuir	1007.4	+2	WSW	5	b	38	85	8	2500	St.Cu	2	-	2	1	1008.2	+1	WSW	4	o	37	85	7	2500	St.Cu	9	-	9	*
Tynemouth	1006.9	+4	WSW	2	b	42	85	6	-	-	0	A.Cu	1	*	1008.7	+1	WSW	2	b	39	85	6	-	-	0	Ci.Cu	1	0
Blacksod Point														*														
Donaghadee	1009.5	+1	WSW	2	b-	40	85	8	-	-	0	Ci.Cu	3	*	1009.3	-1	SSE	1	o+	41	85	8	-	-	0	A.St	10	1
Birr Castle		*												*		*												*
Holyhead	1011.2	+1	W'S	4	bc-	45	75	8	1500	Cu	4	A.St	5	2	1011.5	0	SW'S	4	c	45	85	8	2500	Cu	7	-	7	3
Liverpool (Bidston)	1010.5	+2	WNW	3	bc+	44	75	8	2500	Cu	2	A.Cu	4	*	1011.8	+1	SW	3	bc	39	92	8	4000	Cu	2	Ci.Cu	4	4
Chester (Shotwick)	1010.8	+4	WNW	4	b	46	75	8	4000	Cu	1	Ci	3	2	1012.3	0	SW	1	b	40	85	7	4000	St.Cu	1	A.Cu	2	*
Spurn Head	1008.1	+5	NW	4	b	43	85	6	-	-	0	-	0	*	1011.4	+3	WSW	4	b/f	41	85	5	-	-	0	Ci	1	4
Nottingham	1010.1	*	WNW	3	b-	45	75	5	1500	CuNb	3	-	3	*	1013.3	*	WSW	2	b-	40	85	6	-	-	0	Ci	1	*
Cranwell	1010.4	+4	W	3	b	43	92	6	-	-	0	-	0	2	1013.9	+1	W	3	b	36	92	5	-	-	0	-	0	*
Gorleston	1010.6	+3	W'N	3	bc	42	85	6	5700	Cu	2	A.St	5	*	1013.8	+2	S'W	2	b	37	92	6	-	-	0	-	0	0
Valencia (Cahirciveen)															1010.8	-4	S'W	4	o	46	85	8	2500	St	6	A.St	10	4
Roches Point														*														
Pembroke (St. Ann's H.)	1014.7	+3	WNW	5	bc+	46	75	8	4000	Cu	6	-	6	*	1014.6	+1	W'S	4	o	46	75	8	4000	St.Cu	10	-	10	4
Ross-on-Wye	1012.3	+1	WNW	3	bc-	44	75	9	4000	St.Cu	3	Ci	4	1	1015.0	+4	SSW	2	b	38	75	8	-	-	0	Ci	1	*
Benson	1013.6	+3	W	1	o+	41	85	7	2500	St	10	-	10	1	1015.0	+4	SW	1	b+	32	97	7	-	-	0	-	0	*
Andover	1013.0	+3	WNW	3	o	39	92	8	2500	St.Cu	9	-	9	1	1016.0	+5	-	0	b	34	97	6	-	-	0	-	0	*
S. Farnborough	1012.9	+3	W'S	1	mo	38	85	6	4000	St.Cu	9	-	9	1	1016.1	+4	-	0	ffb	33	92	6	-	-	0	-	0	*
London (Kew Obsy.)	1013.0	+2	WSW	2	c	41	85	6	5700	St.Cu	5	A.Cu	7	1	1016.2	+4	SSW	1	mmb	37	92	4	-	-	0	-	0	*
Croydon	1012.8	+3	W'S	3	b+	42	75	6	1500	Cu	3	-	3	1	1016.1	+4	SSW	1	b-	38	92	6	-	-	0	A.Cu	3	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.3	+4	WSW	3	fbc-	39	97	3	7200	St.Cu	5	-	5	1
Shoeburyness	1012.0	+2	WSW	4	mmb	42	75	6	-	-	0	-	0	*	1015.2	+4	WSW	2	o	40	85	6	4000	St.Cu	10	-	10	*
Grain	1011.5	+2	SW	4	b	43	75	6	-	-	0	A.St	1	2	1015.9	+4	SW	3	o+	40	85	6	4000	St	10	-	10	0
Lympne	1012.5	0	W	3	b	42	75	8	4000	Cu	1	-	1	2	1015.7	+4	W'N	3	c+	38	85	7	5700	St.Cu	8	-	8	*
Scilly (St. Mary's)	1018.0	+5	W'N	4	bc	44	85	8	4000	Cu	4	-	4	*	1017.6	0	W	4	b	47	75	8	4000	Cu	2	-	2	5
Falmouth (Pendennis)	1016.7	+2	NW	3	bc+	47	65	8	4000	Cu	5	-	5	*	1017.4	+2	NW	3	bc-	43	85	8	4000	Cu	3	Ci	5	1
Plymouth (Cattewater)	1015.1	+2	WNW	4	b	47	65	7	2500	St.Cu	2	-	2	2	1017.1	+1	W	3	bc	44	85	8	2500	St.Cu	5	-	5	0
Portland Bill	1012.3	+6	WNW	6	bc+	45	85	7	-	-	0	A.Cu	4	*	1016.2	+5	NW'W	5	b-	44	85	7	-	-	0	-	0	5
Southampton (Calshot)	1013.3	+2	N	3	o	41	85	8	1500	Cu	9	-	9	0	1016.1	+3	W	2	o	41	92	8	4000	Cu	10	-	10	0
Dungeness	1012.4	+2	W	2	b	47	75	8	-	-	0	-	0	*	1015.2	+2	W	4	b=	37	97	8	-	-	0	-	0	3
Jersey 7h / Guernsey 1B	1015.0	0	WSW	4	o/r	42	92	7	2500	CuNb	10	-	10	*	1017.1	+1	WSW	4	b/r	44	75	8	2500	St.Cu	1	-	1	4

LONDON OBSERVATIONS.	Weather Morning.	Weather Afternoon.	Weather Night.	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
	24 Hours ended 0900 G.M.T. 25th								Yesterday.		To-day.
Kew	b.x.m	bcm.w	bmmlx.o	*	*	23	-	Tr	4.2	*	*
Croydon (24 hours ended 0700)	bx	b.o.bxm	b.o.m.b.f	*	*	30	-	Tr	6.2	*	*
Greenwich (Royal Obsy.)	bm	bo.c.bc	bx.m.o	45	32	26	-	-	4.9	86	81
City (Bunhill Row)	*	*	*	*	*	*	*	*		*	*
Westminster (St. James' Pk.)	*	*	*								
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	2.3	*	*
Camden Square	b	b	*	45	34	30	-	-	*	*	84
Kensington Palace	b.o	c.o.b	*	45	35	29	-	0.1	*	89 (18h)	82
Hampstead Observatory	*	*	*							*	

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. ....

South Kensington			
Max.	Time.	Min.	Time.

Kew Observatory			
Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from ....h......m. to..........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 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep).
5 = Dew (or wet grass but not wet ground).
6 = Skating today (in 1300 & 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 (...)).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per sec.	Stren.	Direc.
18h.	-	-	-	-
12h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

25th & 26th December 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 8.6	11.53 11.54	3.41 3.42
Greenwich	8.7 8.7	12.0 12.1	3.53 3.54
Wick	9.5 9.5	12.12 12.13	3.19 3.20
Valencia	8.51 8.51	12.41 12.41	4.32 4.33

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers. r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r_or_o = continuous light rain.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

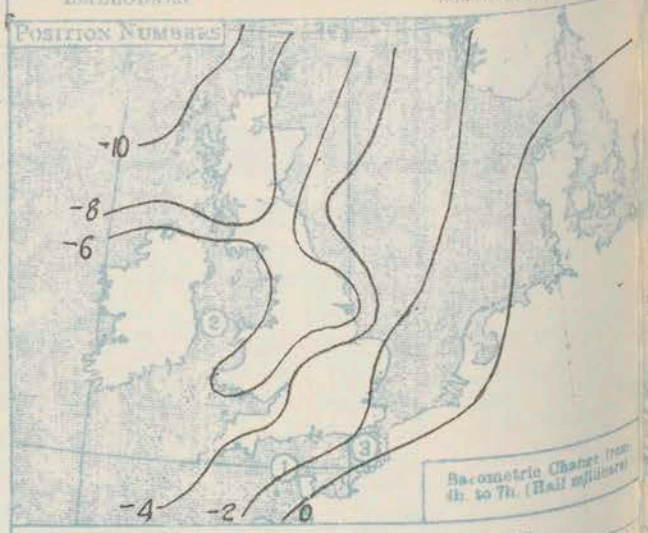
M.O. Form 2379.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.-13h. 24th	Weather. 13h.-18h. 24th	Weather. 18h. 24th to 1h. 25th	Weather. 1h.-7h. 25th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Precipitation began.	Rainfall.† Precipitation began.	Sun. 24th Hours.
Lerwick	c prs	c p r k	b c p	c g	45	36	•	1	1	<0800	<21.00	
Stornoway	c p r s	l p	p r	t l p r	40	33	•	3	5	-	24.00	0.1
Wick	b b c	b b c	q i r g	o o	39	34	•	-	trace	-	24.00	•
Castlebay			h o	r o	46	45	•		2		•	1.2
Nairn	c b c g	c b c	b c. c g	c g	39	35	•	-	-	-	-	3.3
Aberdeen	b c c m b	b c c o	o m	o d r m	41	29	36	-	1	-	04.30	2.5
Malin Head	P R b c	b c c o g		f o f r c k	44	41	•	0.6	4	0900	22.00	1.3
Renfrew	c b c c z	c a f g q			44			0.1		1330		
Edinburgh (Inchkeith)	b c	c	b c	c	44	40	34	-	-	-	•	3.4
Leuchars	b b c	b b c	b. b c h o r	o r	40	39	28	-	0.2	-	04.30	4.2
Eskdalemuir	b r b c c h c	c b c o	o r. r	o. c. o r	39	36	35	-	15	-	22.00	4.0
Tynemouth	c b c m	b b	b c m	o m	43	36	30	-	-	-	-	•
Blacksod Point ...							•					•
Donaghadee	b c	b c	R Q	o g i r	42	40	•	-	4	-	<21.00	•
Birr Castle ...												
Holyhead	b c	b c c	c. b c q r	o r r q	46	45	42	-	14	-	22.00	4.5
Liverpool (Bidston) ...	b c	b b c	o o		46	41	36	-	-	-	-	3.3
Chester (Shotwick) ...	c b c	b b c h c	b. a b c. o o	o o	47	39	31	0.2	-	0900	-	•
Spurn Head	b b c	b f m	o g	b c. o g	43	34	•	-	trace	-	06.30	5.1
Nottingham	c m	b b c	g	o o	45	36	30	?	trace	?	05.30	2.3
Cranwell	c b b m	o c b m	b. b c. o	o o	43	35	31	trace	-	<0800	-	4.9
Gorleston	c b c	b w	b w. b x	b x. b c x	44	33	29	0.6	-	<0800	-	3.6
Valencia (Cahirciveen)		c. o p	o r g	o r c p	48	46	43	2	16	09.00	<21.00	2.0
Roches Point		c	c o p	o g b. o	44	46	•	0.2	2	<08.00	02.30	4.8
Pembroke (St. Ann's H.)	b b c	c o c b r	b w b c c	c. o p	45	36	28	-	-	-	-	4.0
Ross-on-Wye	b x c c	b b c	b x	b c. c. o	42	29	24	-	0.1	-	-	•
Benson	b x b c	c b c b	o b c. c	o r	41	24	20	-	trace	-	-	2.1
Andover	b b c w	c b c b m	b x. b c m	c o m	39	24	20	-	-	-	-	2.8
S. Farnborough ...	b p x c m	b c m c w	b m w. b x	b m x. o o	42	63	23	-	trace	-	-	4.2
London (Kew Obsy.) ...	b z	b o b z m	b. o m	b. o p	43	34	30	-	trace	-	04.30	6.2
Croydon												
Clacton-on-Sea ...	b b c m	c c b c b	b c m	b. b c m b c	42	35	30	-	-	-	-	3.9
Shoeburyness	b	b b c	o	o	43	32	28	-	-	-	-	5.6
Grain	b x b m	b b o p						trace		1430		
Lympne	x b	b b c	/	c. b c	43	31	22	-	0.1	-	16.30	4.0
Scilly (St. Mary's) ...	b c q r	b c p	b c. o g	b c. o p g	48	45	•	0.4	0.5	1100	04.30	4.1
Falmouth (Pendennis)	b p b c	b c	b c. c g	o g	48	42	•	0.3	-	<0800	-	5.6
Plymouth (Cattewater)	c b	b	b c. o	o r	44	42	33	3	trace	<0800	-	4.9
Portland Bill	b b c	b c b	b. b c	b c. c. o p	49	42	•	-	0.4	-	04.30	•
Southampton (Calshot)	c	c	b. b c	c. o i r	41	35	33	-	0.2	-	06.30	4.4
Dungeness	b b c	b b c	b x. b w	c	44	38	•	-	-	-	-	
Jersey ...	b o q P	o q p b		b. b c	44	36	•	4	-	0900	-	1.2

ISALLOBARS

25th December



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea.	Pressure.
2	24th 1003	Cambria	W	5	bc	42	50	8
3	25th 0300	Brighton	WSW	4	bcv	44	49	9

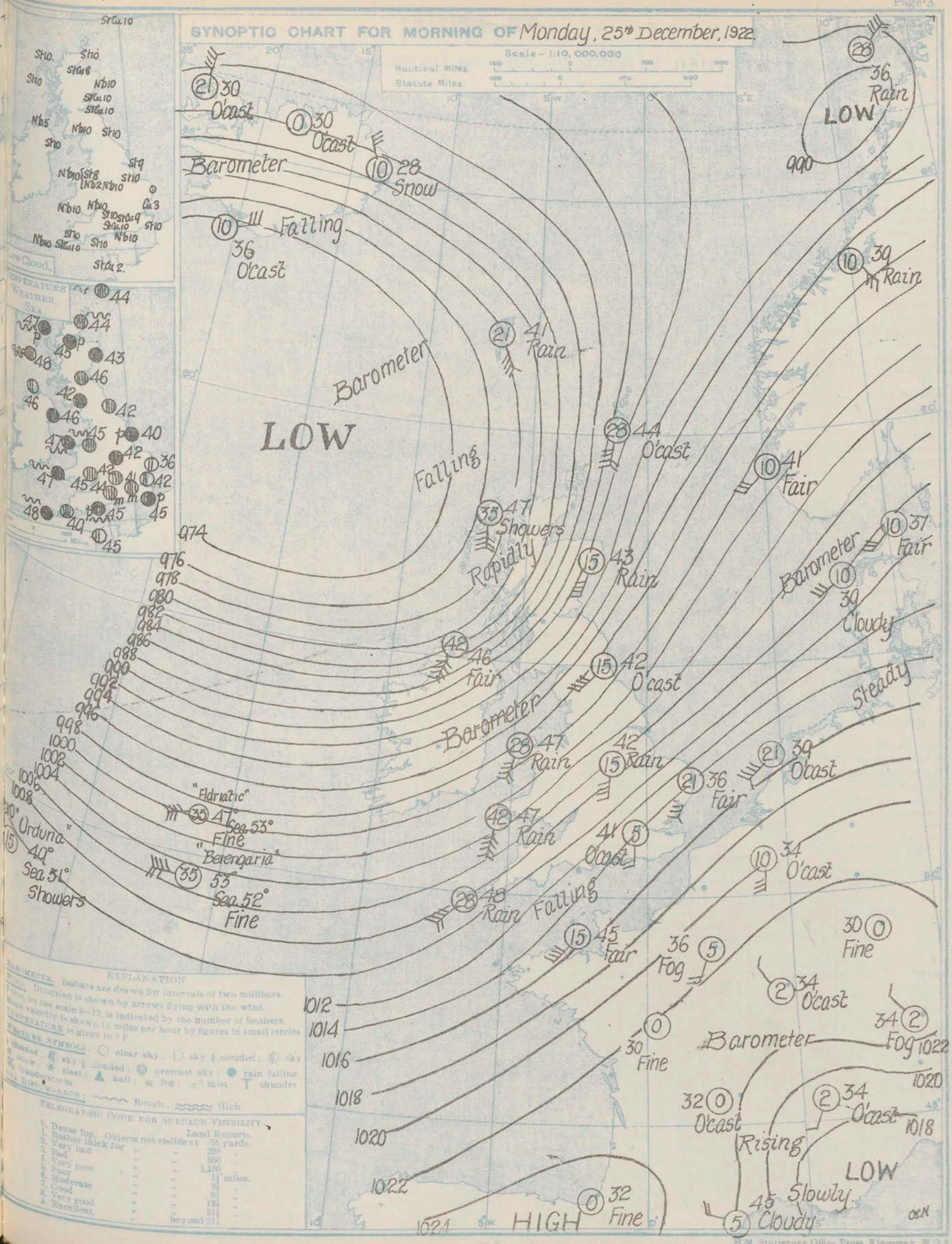
GENERAL INFERENCE.

A deep depression between Iceland and the Hebrides moving East or Northeast will cause Southerly to Southwesterly winds, strong to gale force generally over the British Isles with much cloud and some rain, followed by brighter periods and winds from a more westerly point.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Monday, 25th December, 1922.	Farther Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind S to SW, strong to a gale, veering W later; dull, some rain, brighter periods tomorrow; visibility mainly good; rather mild.	Unsettled generally; considerable fair periods in the South. South Cone hoisted all coasts at 0830 today.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Wind S to SW, strong to a gale, veering W or NW; much cloud, some rain, brighter periods later; visibility mainly good; mild then colder.	
19. S.E. Ireland 20. S.W. Ireland	Wind SW to W, strong to a gale; variable cloud, occasional rain or showers; visibility mainly good; moderate temperature.	

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 opposite page.


SYNOPTIC CHART FOR MORNING OF Monday, 25th December, 1922.
Scale - 1:10,000,000
Nautical Miles
Statute Miles
LOW
Barometer
Falling
Rapidly
Steady
Rising
Slowly
HIGH
"Adriatic"
"Ordunia"
"Belengaria"
Showers
Fine
Fair
Rain
Snow
O'cast
Cloudy
Fog
EXPLANATION
TELEGRAPHIC CODE FOR SURFACE VISIBILITY
Land Reports.
0. Dense fog. Objects not visible at 55 yards
1. Rather thick fog " " " 220 "
2. Very bad " " " 550 "
3. Bad " " " 1,100 "
4. Very poor " " " 1½ miles.
5. Poor " " " 2 "
6. Moderate " " " 6 "
7. Good " " " 12 "
8. Very good " " " 31 "
9. Excellent " " " beyond 31 "

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....MONDAY, 25TH DECEMBER 1922. No. 359.

Observations at 0100 G.M.T. 25th

STATIONS.	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
Lerwick														
Stornoway														
Wick	992.2	-11	SSW	6	o/r	44	85	6	800	St	4	ASt	10	
Castlebay														
Nairn														
Aberdeen														
Malin Head														
Renfrew														
Edinburgh (Inchkeith)														
Leuchars														
Eskdalemuir														
Tynemouth														
Blacksod Point ...														
Donaghadee														
Birr Castle														
Holyhead														
Liverpool (Bidston) ...														
Chester (Shotwick) ...														
Spurn Head														
Nottingham														
Cranwell														
Gorleston														
Valencia (Cahirciveen)	1006.9	-7	NW	4	orr	49	97	5	-	St	10	-	10	
Roches Point														
Pembroke (St. Ann's H.)														
Ross-on-Wye														
Benson														
Andover														
S. Farnborough ...														
London (Kew Obsy.) ...						36								
Croydon														
Clacton-on-Sea ...														
Shoeburyness														
Grain														
Lympne														
Scilly (St. Mary's) ...														
Falmouth (Pendennis)														
Plymouth (Cattewater)														
Portland Bill														
Southampton (Calshot)														
Dungeness														
Jersey 7h }														
Guernsey 1h }														

Observations at 0700 G.M.T. 25th

STATIONS.	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
Lerwick	989.2	-7	SSW	6	o+	44	85	7	5400	St Cu	10	-	10	5
Stornoway	997.1	-10	S	7	oPR	47	97	5	450	St	10	-	10	6
Wick	985.3	-8	S	9	o	46	85	8	800	St	10	-	10	7
Castlebay	997.7	-10	S	5	o/r	48	85	6	1500	St	10	-	8	
Nairn	983.7		W	1	c/b	45	95	8	4000	St Cu	8	-	10	1
Aberdeen	990.7	-8	SSW	4	or	43	92	6	2500	Nb	10	-	5	5
Malin Head	982.1	-6	SSW	8	bc/r	46	92	6	5400	Nb	5	-	10	3
Renfrew	989.4	-12	SW	4	o+	46	85	8	*	St Cu	10	-	10	
Edinburgh (Inchkeith)	990.3	-9	SW	3	o	43	85	7	2500	St Cu	10	-	10	
Leuchars	993.9	-6	SW	7	orr	42	97	5	800	Nb	10	-	10	2
Eskdalemuir	999.1	-4	SW	4	o	42	92	6	2500	St	10	-		
Tynemouth														
Blacksod Point ...	992.2	-8	WSW	5	or	46	92	7	1500	St	10	-	10	4
Donaghadee														
Birr Castle														
Holyhead	998.1	-5	SW	6	orr	47	97	7	450	Nb	10	-	10	6
Liverpool (Bidston) ...	1001.1	-6	S	5	o+	45	85	8	1500	St	10	-	10	
Chester (Shotwick) ...	1001.3	-11	SW	5	orr	47	85	7	1500	St	10	-		
Spurn Head	1005.9	-7	S	6	opr	40	85	7	1500	St	9	-	9	5
Nottingham	1006.9		S	4	or	42	85	5	1500	Nb	10	-	10	
Cranwell	1004.4	-4	S	5	o	40	92	7	2500	St	10	-	10	2
Gorleston	1014.2	-1	SSW	5	bc+	36	92	7	-	-	0	A Cu	5	
Valencia (Cahirciveen)	997.7	+1	SW'W	6	bcPR	46	92	7	2500	St	6	-	6	6
Roches Point	1005.2	-7	SSW	8	orr	47	85	7	1500	Nb	10	-	10	
Pembroke (St. Ann's H.)	1008.1	-4	SW'S	6	o	45	95	8	2500	Nb	10	-	10	
Ross-on-Wye	1011.5	-3	SSW	4	o	42	85	8	4000	St	10	-	10	
Benson	1011.7	-3	SSW	5	o	43	92	7	1500	Nb	8	A St	10	
Andover	1012.8	-4	SW	5	nmo	44	92	6	2500	St Cu	10	-	9	
S. Farnborough ...	1013.2	-3	S	2	mo	41	92	7	4000	St Cu	9	-	10	
London (Kew Obsy.) ...	1013.9	-1	SSW	3	o/r	40	92	7	4000	St Cu	6	A Cu	5	2
Croydon	1014.5	-2	SSE	4	bc	42	92	7	2500	Cu	8	A St	10	
Clacton-on-Sea ...	1014.4	-2	SW	3	o	41	85	7	4000	St Cu	10	-		
Shoeburyness													10	
Grain	1015.1	-2	SSW	5	od	42	92	6	225	Nb	10	-		
Lympne														
Scilly (St. Mary's) ...	1009.1	-5	SW	6	orr	48	85	7	2500	Nb	10	-	10	4
Falmouth (Pendennis)	1010.4	-4	WSW	8	o	49	95	8	4000	St Cu	10	-	10	6
Plymouth (Cattewater)	1011.2	-4	SSW	7	or	49	85	8	1500	St	10	-	10	6
Portland Bill	?	-4	SW	7	opr	45	85	6	450	St	10	-	10	3
Southampton (Calshot)	1013.7	-3	WSW	5	o/r	46	92	8	1500	Nb	10	-	10	4
Dungeness	1014.9	-3	SW	5	o/b	45	97	8	1500	St	10	-	4	4
Jersey 7h }	1014.1	0	SW	4	bc	45	95	7	4000	St Cu	2	A Cu		
Guernsey 1h }														

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

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 23rd-24th	Temperature. Max. Day. 24th	Rainfall.† Night 17h.-9h. 23rd-24th	Rainfall.† Day 9h.-17h. 24th	Sunshine.	Sunshine. Sunrise to Sunset. 24th
			°F.	°F.	mm.	mm.	hr.	hr.
Banff								
Montrose	-	-	35	41	-	-		3.6
Llandudno	cpo	bc	37	46	11	-		3.0
Colwyn Bay ...								
Rhyl	c bc	bcc	40	47	15	0.2		3.0
Southport	cohrc	bcbcc	41	45	16	1		2.6
Blackpool	c	bc	42	46	8	-		3.2
Harrogate	b	bbc	36	44	1	-		4.9
Skegness	b	b	37	44	4	-		4.1
Aberystwyth ...	roc	brigh	42	46	2	-		3.0
Bath	mobc	bcob	35	45	-	-		2.6
Leamington Spa ...			35	47	0.1	-		2.2
Lowestoft	b	b	37	44	0.5	-		5.6
Felixstowe	bz	bcbz	34	44	-	-		5.2
Southend	b	bcco	34	43	-	-		4.1
Ilkley	dbcb	bbcbc	38	44	0.4	-		3.0

STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 23rd-24th	Temperature. Max. Day. 24th	Rainfall.† Night 17h.-9h. 23rd-24th	Rainfall.† Day 9h.-17h. 24th	Sunshine.	Sunshine. Sunrise to Sunset. 24th
			°F.	°F	mm.	mm.	hr.	hr.
Paignton	orpbc	bcbbm	36	48	3	2		4.7
Ilfracombe	oc	bcb	40	49	4	-		4.6
Bude								
Penzance	bc	bcpbc	40	50	2	Trace		5.0
Falmouth Observatory	bbv	bbcb	7	49	2	-		4.8
Torquay	rodc	b	38	49	2	1		2.3
Weymouth	opc	bcb	39	46	0.3	1		2.5
Bournemouth ...	b	b	35	42	-	-		5.0
Portsmouth (S'thsea)	b	cbm	37	42	-	-		
Worthing								5.9
Brighton	b	bc c	35	44	-	-		5.9
Eastbourne	bcb	b	37	49	-	-		6.0
Hastings	b	bbcb	36	45	Trace	-		6.0
Folkestone	bc	bc	38	47	-	-		6.3
Tunbridge Wells ...	b	bbc	32	46	-	-		6.7
Ramsgate	b	bbc	34	45	-	-		6.1
Margate	b	b	36	44	-	-		6.7
Deal	b	b	36	43	-	-		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22314 Tuesday, December 26th 1922. Page 1.

Observations at 1300 G.M.T. 25th Dec. / Observations at 1800 G.M.T. 25th Dec.

Stations	13h Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind Direc.	Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Height of Low Cloud Feet	Low Cloud Form.	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	State of ground	18h Barom. at M.S.L. m.b	Change in 3 Hours‡	Wind Direc.	Force 0-12	Weather	Temp. °F.	Humidity %	Visibility§ 0-9	Height of Low Cloud Feet	Low Cloud Form.	Low Amt. 0-10	Upper Form.	Total Amt. 0-10	Sea§ 0-9
Lerwick	980·5	-7	S	6	o/r	46	92	6	5700	StCu	10	-	10	•	976·0	-5	SSW	6	o	46	85	7	4000	StCu	9	-	9	5
Stornoway	971·2	-7	SSW	4	c/r	46	92	6	4000	Nb	7	-	7	•	973·1	+2	SSW	4	oPR-	45	85	7	450	St	10	-	10	3
Wick	976·9	-5	S	9	bc-	46	85	8	4000	Cu	2	Ci	4	•	975·4	+0	SW	8	c	44	85	8	4000	Cu	3	CiCu	7	7
Castlebay	974·6	-0	SSW	6	cpr₀	48	85	7	1500	Cu	8	-	8	•	981·2	+5	W	5	CPR	46	75	6	1500	St	8	-	8	7
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	977·0	•	W	1	OR-	44	97	8	2500	Nb	9	-	9	•
Aberdeen	981·9	-8	SSW	4	c/r	47	75	6	1500	Cu	8	-	8	1	981·3	+1	SW'S	5	o	45	85	6	2500	StCu	9	-	9	1
Malin Head	981·2	+2	WSW	9	odd	46	92	7	4000	Nb	5	ASt	10	•	986·8	+5	W	8	oPR	43	92	7	2500	Nb	9	-	9	8
Renfrew	9																											•
Edinburgh (Inchkeith)	983·3	-7	SSW	7	or₀	47	75	7	-	CuNb	7	Ci	10	•	985·2	+4	SW	6	bc-	44	85	8	-	-	0	ACu	4	5
Leuchars	983·7	-6	SSW	8	cpr₀	48	65	7	1600	Nb	5	ASt	7	2	984·4	+2	SW	8	or₀	45	75	7	2500	StCu	9	-	9	•
Eskdalemuir	989·1	-2	SW	7	o/r	44	85	6	800	StCu	10	-	10	2	990·2	+1	SW	7	or	41	85	6	800	Nb	10	-	10	•
Tynemouth	993·1	-2	SW	4	bc	48	85	6	4000	Cu	6	-	6	•	993·7	0	SW	3	b	44	85	6	-	-	0	-	0	1
Blacksod Point														•														
Donaghadee	989·4	-2	WSW	6	c+	47	75	8	1500	Cu	5	CiCu	7	•	992·9	+1	WSW	5	b-	41	75	8	-	-	0	ACu	3	3
Birr Castle		•												•		•												•
Holyhead	997·3	+0	SW'S	5	c+	49	75	8	2500	Cu	7	-	7	2	999·1	+2	SW'W	6	c	47	75	8	2500	Cu	4	ACu	7	6
Liverpool (Bidston)	997·3	-1	SW'W	4	b-	49	75	9	-	-	0	-	0	•	999·0	+2	WSW	5	bc+	43	85	8	2500	Cu	6	-	6	6
Chester (Shotwick)	998·3	-2	SW	6	bcpr₀	50	75	8	1500	St	5	-	5	2	999·3	+1	W	5	c+	46	75	7	4000	StCu	4	Ci	8	•
Spurn Head	998·6	-7	S	7	od	45	85	6	450	St	10	-	10	•	999·2	-0	S	6	bc⊕	43	92	7	-	-	0	CiSt	6	6
Nottingham	1000·9	•	SW	6	or₀	47	85	7	1500	StCu	10	-	10	•	1000·8	•	SW	3	o+	45	85	6	2500	StCu	10	-	10	•
Cranwell	1001·9	-4	S'W	6	ojp	45	85	8	1500	St	10	-	10	2	1001·7	0	SSW	4	c-	44	92	6	1500	St	3	Ci	7	•
Gorleston	1007·1	-3	SSW	6	otr	43	92	6	2500	Nb	10	-	10	•	1006·3	-1	SSW	6	o	44	85	7	2500	Nb	10	-	10	6
Valencia (Cahirciveen)	1000·8	+4	WSW	7	cpr₀	46	75	6	2500	St	8	-	8	2	1003·9	+4	WSW	6	bc	46	75	7	2500	StCu	5	-	5	7
Roches Point														•														
Pembroke (St. Ann's H.)	1002·4	+1	W'S	5	bc	49	75	7	2500	Cu	6	-	6	•	1003·0	+1	W	6	bjp	48	75	7	2500	Nb	6	-	6	6
Ross-on-Wye	1003·2	-4	SW'W	6	or₀+	47	85	7	1500	Nb	10	-	10	1	1003·6	0	W'S	4	o/r	45	75	9	2500	Nb	8	ASt	10	•
Benson	1006·4	-7	SSW	5	or₀r₀	45	85	6	1500	Nb	10	-	10	2	1005·1	0	SW	3	o-	44	92	7	-	St	6	CiSt	10	•
Andover	1007·6	-5	SSW	5	o	44	97	6	800	Nb	10	-	10	2	1005·8	+0	SSW	5	o	44	92	7	1500	St	4	ASt	10	•
S. Farnborough	1008·4	-6	SW	6	or₀r₀	43	92	6	800	Nb	10	-	10	2	1006·4	-1	SW	4	o/r	45	85	7	-	-	0	ACu	9	•
London (Kew Obsy.)	1008·2	-7	SSW	4	or-	45	85	6	1500	Nb	7	ASt	10	1	1006·0	-2	SSW	3	or-	46	92	7	1500	Nb	6	ASt	9	•
Croydon	1009·3	-6	SSW	6	or₀r₀	43	85	7	1500	Nb	10	-	10	2	1006·9	-3	SW	6	or₀r₀	45	97	6	800	Nb	10	-	10	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1007·2	-2	SSW	6	o	44	92	7	4000	St	10	-	10	5
Shoeburyness	1009·4	-6	SW	5	or₀+	44	75	7	4000	StCu	10	-	10	•	1007·0	-2	SW	5	od₀	45	85	7	2500	StCu	10	-	10	•
Grain	1010·4	-7	SSW	6	o	46	75	8	800	St	6	ASt	10	2	1007·8	-3	SSW	6	opr₀	45	92	7	800	St	10	-	10	6
Lympne	1011·3	-6	SW	7	o	44	85	7	450	StCu	10	-	10	2	1008·5	-4	SW	7	or₀r₀	43	97	6	800	Nb	10	-	10	•
Scilly (St. Mary's)	1007·8	0	W	5	bc/r	51	85	6	2500	CuNb	5	Ci	6	•	1007·8	0	W'S	5	bc/r	46	92	7	2500	CuNb	6	-	6	6
Falmouth (Pendennis)	1006·6	-2	WSW	6	opr₀	49	97	7	4000	CuNb	10	-	10	•	1007·9	+1	WSW	6	opr₀	47	85	7	1500	Nb	10	-	10	1
Plymouth (Cattewater)	1007·1	-4	SW	6	or₀r₀	49	97	4	1500	Nb	10	-	10	2	1007·4	0	WSW	4	o-	49	75	8	4000	St	10	-	10	1
Portland Bill	1006·8	-9	WSW	8	or₀r₀	45	85	6	450	St	10	-	10	•	1005·3	-2	WSW	7	bc/r	47	85	7	1500	StCu	6	-	6	7
Southampton (Calshot)	1009·4	-5	SW	7	or₀r₀	46	92	6	1500	Nb	10	-	10	1														
Dungeness	1011·4	-4	SW	7	c-	46	85	8	2500	Cu	7	-	7	•	1008·7	-3	SW	8	oR	46	97	7	1500	St	10	-	10	8
Jersey	1013·9	-4	SSW	4	o/r	47	75	7	1500	St	10	-	10	•	1011·8	0	SW	5	o/r	48	85	7	2500	StCu	10	-	10	4

London Observations

24 Hours ended 0900 G.M.T. 26th (Sunshine: Yesterday; Humidity 9h: To-day)

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
Kew (24 hours ended 0700)	ob₀omrq	omomrof	or₀ocbx	•	•	31	4	0.2	0.0	•	•
Croydon (24 hours ended 0700)	or₀r₀q	oqrrd₀	or₀rmb	•	•	36	2	1	0.0	•	•
Greenwich (Royal Obsy.)	or₀	or	orbbcx	47	38	30	2	3	0.0	88	82
City (Bunhill Row)	•	•	•	•	•	•	•	•		•	•
Westminster (St. James' Pk.)	•	•	•								
Regent's Pk. (Botanic Gdns.)	•	•	•	•	•	•	•	•	0.0	•	•
Camden Square	o	r	•	47	37	33		2	•	•	~
Kensington Palace	⊕dr	or	bp	48	38	30	4	1	•	90 (18h)	85
Hampstead Observatory	•	•	•	45	35	25	4	2		•	90

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. –

South Kensington	–		
Max.	Time.	Min.	Time.
–	–	–	–
Kew Observatory			
Max.	Time.	Min.	Time.
–	–	–	–

Pole Star Record at Greenwich Obsy.

Exposure from – h. – m. to – h. – m.

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

Code for State of Ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.[1]

Time.	Type.	No. per 4 sec.	Siren.	Direc.
15h.	–	–	–	–
18h.	–	–	–	–
01h.	–	–	–	–
07h.	–	–	–	–

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.
26th & 27th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 8.6	11.54 11.54	3.42 3.43
Greenwich	8.7 8.8	12.1 12.1	3.54 3.55
Wick	9.5 9.5	12.13 12.13	3.20 3.21
Valencia	8.51 8.51	12.42 12.42	4.33 4.34

Beaufort Notation of Weather.
b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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

[1] For explanation see Introduction. • Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

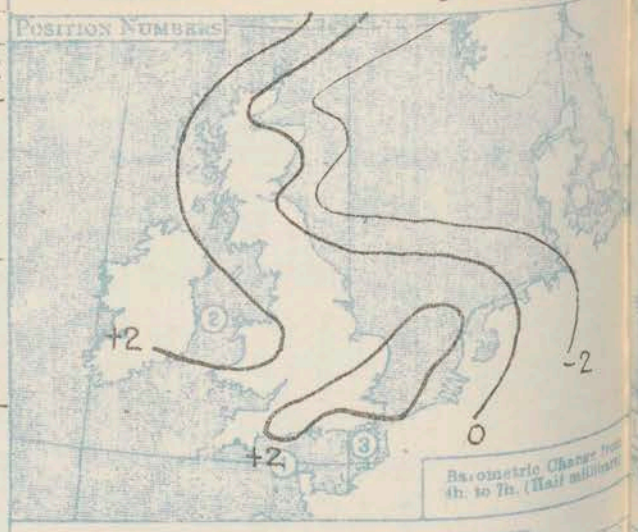
M.O. Form 2370.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-18h. 25th	Weather. 18h.-18h. 25th	Weather. 18h. 25th to 1h. 26th	Weather. 1h.-7h. 26th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Night. 18h.-7h. mm.	Rainfall.† Precipitation began.	Rainfall.† Precipitation began.	Sun. 25th. Hours.
Lerwick	omrq	cqp	cqp	bcq	47	41	•	0·5	0·4	0900	<21·00	0·0
Stornoway	p	p	cpr	cpr	48	41	•	8	9	<0800	-	0·0
Wick	or₀bc	c	cqr	rd	47	40	•	0·4	0·2	1100	22·00	•
Castlebay	op	oP	obc	obchp	49	44	•	2	1	-	<21·00	0·6
Nairn	iRbc	irqc	iRqc	cirq	48	39	•	3	1	0900	22·00	2·2
Aberdeen	ir₀qq	pr₀cq	o	obcq	47	37	33	0·4	-	<0800	-	0·2
Malin Head	orhrh	oPR	cPhr	cPR	46	39	•	5	4	0900	<21·00	0·0
Renfrew												
Edinburgh (Inchkeith)	ir₀q	p	cbq	PRsq	49	36	35	trace	3	-	01·30	1·3
Leuchars	bqprq	op₀bcq	bcobpbc	p	49	37	32	0·2	0·2	<0800	<21·00	2·0
Eskdalemuir	oirm	oirhm	op	op	45	36	35	13	0·4	<0800	<21·00	0·0
Tynemouth	cm	cmq	bmq	bmq	49	36	32	-	-	-	-	•
Blacksod Point ...												•
Donaghadee	bcq	bc	or	bcq	48	38	•	-	0·4	-	24·00	•
Birr Castle ...												
Holyhead	rrobc	cbccq	cocbc	bcc	50	41	40	1	-	<0800	-	2·0
Liverpool (Bidston) ...	b·bc	b	b	b	50	39	33	-	-	-	-	4·0
Chester (Shotwick) ...	oc	bbccq	cobbq	bqb	52	41	36	0·4	-	<0800	-	•
Spurn Head	oqod	oqprcp	bq	bq	45	38	•	2	-	<0800	-	0·0
Nottingham	ir	c	ocb	bbc	47	38	34	1	-	<0800	-	0·0
Cranwell	oirq	oc	ocbc	bbc	46	37	35	1	-	0900	-	0·0
Gorleston	bccqr	rooq	ocbc	bw	45	37	33	0·5	-	1230	-	0·0
Valencia (Cahirciveen)	cbcp	bccp.						0·6		<0800		
Roches Point												•
Pembroke (St. Ann's H.)	orqcq	cqp	cq	cqp₀	50	44	•	4	Trace	<0800	05·30	0·0
Ross-on-Wye	dqrq	rcor	p₀cb	bb	49	39	•	2	0·1	0900	<21·00	0·0
Benson...	or₀	or₀	bp₀	b	47	35	32	2	0·1	1100	<21·00	•
Andover	orr	odorR	ocbc	b	47	33	23	6	-	<0800	-	0·0
S. Farnborough ...	oorr	oodd	oir₀	cbcbx	46	33	23	5	0·6	<0800	<21·00	0·0
London (Kew Obsy.)...	opomrq	omomgor	or₀oc	cbbx	46	38	31	4	0·2	<0800	22·00	0·0
Croydon	oirrq	oqrrd₀	or₀rm	obm	46	41	36	2	1	1100	<21·00	0·0
Clacton-on-Sea ..	bccqr	oq	oqrc	cbcb	45	38	33	0·6	3	1230	<21·00	0·0
Shoeburyness	or	od	od₀ac	bcb	47	36	33	0·2	0·1	1230	<21·00	0·0
Grain	op₀o	oir₀o	oir	oir₀b	47	39	30	0·1	-	<0800	-	0·2
Lympne	odomq	or₀ro	or₀mcbcb		45	36	31	2	0·2	<0800	<21·00	0·1
Scilly (St. Mary's) ..	omrdq	cqP	bcq	bcb₀	51	43	•	3	0·5	<0800	<21·00	1·1
Falmouth (Pendennis)	dqp	oqp	cbcqp	bcbp	50	41	•	5	1	<0800	<21·00	0·0
Plymouth (Cattewater)	orrm	oro	orp	bo	50	41	34	5	0·2	<0800	<21·00	0·0
Portland Bill	oqr	orcq	cqbc	bcb	50	42	•	3	-	<0800	-	•
Southampton (Calshot)	oqr₀r₀	r₀r₀u	bcpb	cbc	48	39	36	2	0·2	<0800	24·00	0·0
Dungeness	cq	qr	qr	c	47	42	•	?20	3	1430	<21·00	•
Jersey . .	bcdp	opo	orqp	oqpbc	48	42	•	1	4	1100	22·00	0·6

ISALLOBARS

December 26th.



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure.
2	25th 10h	Cambria	SW	4	bc	49	50	7
3	26th 3h	Arundel	W	6	co	47	49	8

GENERAL INFERENCE.

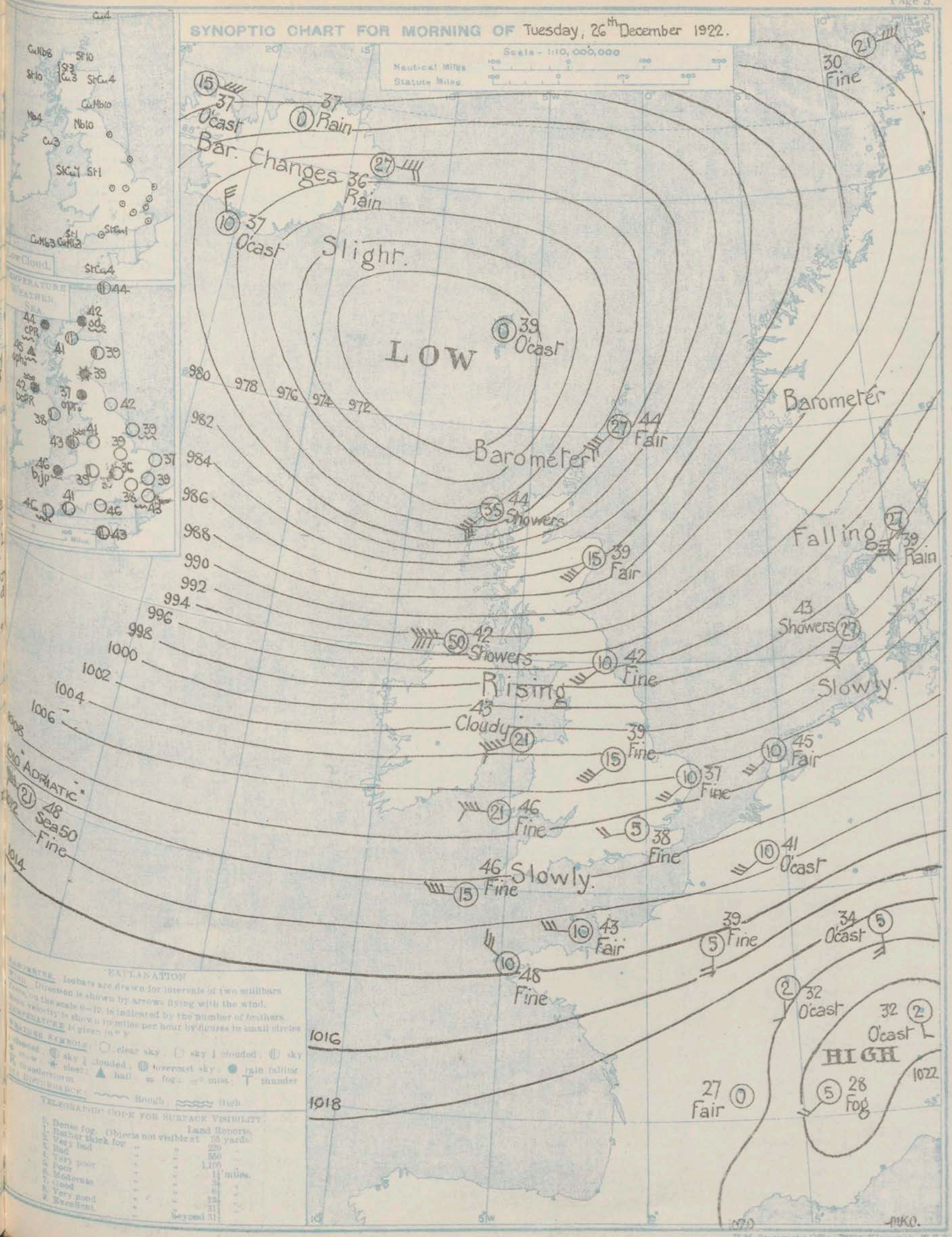
The depression to the North will maintain westerly winds generally over these Islands, high to a gale at first over Scotland. In the North showers of rain, hail or snow will occur with brighter intervals. In the South considerable fair periods may be expected with occasional showers and a moderate day temperature but frost inland at night.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Tuesday, 26th December, 1922.	Further Outlook.
▼1. S.E. England ▼2. E. England 3. E. Midlands 4. W. Midlands ▼5. S.W. England ▼6. South Wales	Wind westerly, moderate or fresh; considerable fair periods, occasional showers; visibility good; moderate day temperature, night frost inland.	Unsettled generally, but considerable fair periods in the South.
▼7. North Wales ▼8. N.W. England 9. N. Midlands ▼10. N.E. England	Wind westerly, strong, moderating; bright periods, some showers; visibility good; moderate to rather low temperature, frost inland at night.	
▼11. E. Scotland ▼12. S.W. Scotland	As 14 18.	
▼13. Isle of Man	As 7 -10.	▼ South Cone flying all coasts
▼14. N. & N.W. Scotland ▼15. Hebrides ▼16. Orkneys and Shetlands ▼17. N.W. Ireland ▼18. N.E. Ireland	Wind westerly, strong to a gale, moderating gradually; changeable, some showers of rain or hail and, in places, of snow; visibility good; rather cold.	
19. S.E. Ireland 20. S.W. Ireland	As 7 - 10.	

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 annexed part.

SYNOPTIC CHART FOR MORNING OF Tuesday, 26th December 1922.



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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION.....Tuesday, December 26th.....1922. No. 360

Observations at 0100 G.M.T. 26th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick														
Stornoway														
Wick														
Castlebay														
Nairn														
Aberdeen														
Malin Head														
Renfrew														
Edinburgh (Inchkeith)														
Leuchars														
Eskdalemuir														
Tynemouth														
Blacksod Point														
Donaghadee														
Birr Castle														
Holyhead														
Liverpool (Bidston)														
Chester (Shotwick)														
Spurn Head														
Nottingham														
Cranwell														
Corleston														
Valencia (Cahirciveen)	1006.1	+2	WNW	5	PR	45	92	6	-	-	-	-	-	
Roches Point														
Pembroke (St. Ann's H.)														
Ross-on-Wye														
Benson														
Andover														
S. Farnborough														
London (Kew Obsy.)						40								
Croydon														
Clacton-on-Sea														
Shoeburyness														
Grain														
Lympne														
Scilly (St. Mary's)														
Falmouth (Pendennis)														
Plymouth (Cattewater)														
Portland Bill														
Southampton (Calshot)														
Dungeness														
Jersey 7h }														
Guernsey 1h }														

Observations at 0700 G.M.T. 26th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	978.3	+2	SW	6	bc	44	75	7	5700	Cu	4	-	4	2
Stornoway	977.0	+3	SW	7	cPR	44	92	5	4000	CuNb	8	-	8	6
Wick	979.1	-3	SW	7	od.	42	85	8	800	St	10	-	10	6
Castlebay	985.9	+2	W	7	obh.	45	65	6	1500	St	10	-	10	7
Nairn	981.6	.	W	3	bc/r	41	85	8	1500	St	6	-	6	.
Aberdeen	985.7	0	SW	4	bc+	39	85	7	4000	StCu	4	-	4	1
Malin Head	993.9	+3	W'S	9	bcPR	42	92	7	5700	Nb	4	-	4	8
Renfrew	989.8	-2	SW	7	obrs.	38	92	8	-	CuNb	10	-	10	.
Edinburgh (Inchkeith)	989.0	+1	WSW	6	bc	38	92	7	2500	St	3	ASt	5	.
Leuchars	995.2	+1	SW'W	7	obr.	37	85	6	800	Nb	10	-	10	.
Eskdalemuir	995.9	0	SW	3	b	42	75	6	-	-	0	-	0	1
Tynemouth														
Blacksod Point	999.4	+1	WSW	4	b-	38	75	8	5700	Cu	3	-	3	3
Donaghadee														
Birr Castle	1003.7	+2	WSW	5	c+	43	85	8	2500	StCu	7	-	7	.
Holyhead	1003.2	+1	WSW	7	b+	41	75	7	2500	St	1	-	1	8
Liverpool (Bidston)	1003.6	+3	SW	4	b	42	75	8	-	-	0	-	0	.
Chester (Shotwick)														
Spurn Head	1001.3	+1	WSW	5	b	39	92	7	-	-	0	-	0	6
Nottingham	1004.4	.	SW	4	b	39	85	7	-	-	0	-	0	.
Cranwell	1004.0	+1	SW	4	b	38	94	7	-	-	0	-	0	.
Corleston	1006.7	+1	SW	3	b-	34	92	7	-	-	0	-	0	.
Valencia (Cahirciveen)														
Roches Point	1007.9	+1	W	5	b/p	46	75	8	2500	Nb	3	-	3	6
Pembroke (St. Ann's H.)	1007.9	+1	SW'W	3	b	39	85	8	4000	Cu	1	Ci	2	.
Ross-on-Wye	1008.8	+1	SSW	3	b	36	85	8	-	-	0	Ci	0	.
Benson	1010.0	+2	SW'W	3	b	35	94	8	2500	StCu	2	Ci	3	.
Andover	1009.6	+1	SW	3	b/r	35	92	8	-	-	0	-	0	.
S. Farnborough	1009.4	+2	WSW	2	b	38	92	7	-	-	0	ASt	1	.
London (Kew Obsy.)	1010.4	+1	WSW	4	b/r	41	85	7	-	-	0	CiSt	3	.
Croydon														
Clacton-on-Sea	1008.7	+3	WNW	3	b	39	92	7	-	-	0	-	0	2
Shoeburyness	1009.3	+2	WSW	1	b	38	85	7	-	-	0	-	0	.
Grain	1009.6	+3	SW	4	b-	39	85	8	-	-	0	CiSt	2	3
Lympne	1010.5	+2	W'S	3	b	36	85	6	4000	StCu	2	CiSt	3	.
Scilly (St. Mary's)	1011.2	0	W	4	b	46?	75	7	2500	CuNb	3	-	3	6
Falmouth (Pendennis)	1011.4	-2	W	4	b-	41	94	7	4000	CuNb	3	-	3	1
Plymouth (Cattewater)	1011.3	+1	W	2	o+	41	85	8	4000	StCu	1	CiSt	10	1
Portland Bill	1008.3	+2	W	6	b-	46	85	7	-	-	0	-	0	5
Southampton (Calshot)	1010.6	+1	WNW	3	b	40	92	8	4000	StCu	1	-	1	0
Dungeness	1009.6	+2	W	5	b	43	94	8	-	-	0	-	0	6
Jersey 7h }	1012.5	0	W	3	bc/r	43	85	7	4000	StCu	4	-	4	3
Guernsey 1h }														

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

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 24th °F.	Temperature. Max. Day. 25th °F.	Rainfall.† Night 17h.-9h. 24-25th mm.	Rainfall.† Day 9h.-17h. 25th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 25th hr.
Banff								1·3
Montrose	*	*	48	49	1	1		
Llandudno	ocpbc	bcchc	38	53	2	1		2·5
Colwyn Bay								
Rhyl								
Southport	ocbcbc	coqrb	37	49	7	0·2		3·5
Blackpool	roc	bcq	40	49	10	0·3		1·4
Harrogate	ocp	bcb	34	47	1	-		0·7
Skegness	orc	bcz	33	45	-	2		0·0
Aberystwyth	roc	o	43	49	3	-		0·3
Bath	ro	ro	31	49	0·2	1		0·0
Leamington Spa	*	*	33	49	0·2	0·2		0·0
Lowestoft	o	oro	33	45	0·2	0·3		0·0
Felixstowe	o	opo	33	45	-	0·2		0·0
Southend	oc	co	34	46	-	-		0·0

Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 24th °F.	Temperature. Max. Day. 25th °F.	Rainfall.† Night 17h.-9h. 24-25th mm.	Rainfall.† Day 9h.-17h. 25th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 25th hr.
Paignton	or	op	44	51	3	2		0·0
Ilfracombe	ipcoq	ipcoq	39	52	3	3		0·8
Bude	drbc	cop	41	52	7	trace		1·0
Penzance	rqo	ocpq	42	50	5	4		0·0
Falmouth Observatory	r	rbco	38	50	3	3		0·0
Torquay								0·0
Weymouth	or	ro	33	49	1	4		0·0
Bournemouth	p	p	35	48	-	3		
Portsmouth (S'thsea)								1·1
Worthing								1·4
Brighton	bcor	od	32	48	1	-		
Eastbourne	bco	oo	33	47	-	1		*
Hastings	ocb	cc	35	48	0·3	2		0·6
Folkestone	cbcor	oor	30	47	0·2	1		0·0
Tunbridge Wells	o	o	33	46	-	-		0·0
Ramsgate	o	or	36	47	-	0·2		0·0
Margate	op	or	33	46	0·2	-		
Deal								

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22315 Wednesday, 27th December 1922.

Observations at 1800 G.M.T. 26th

STATIONS.	Barom. at M.S.L. in.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	State of ground.
Lerwick	978.0	-1	SW	4	c pr	45	85	6	4000	Nb	3	a.St	8	*
Stornoway	983.5	+7	WSW	6	o PR	43	85	6	450	St	10	-	10	*
Wick	981.5	+2	WSW	6	o rs	43	85	7	4000	Cu Nb	8	Ci St	10	*
Castlebay	991.8	+5	WNW	7	bc/sh	45	75	6	2500	St Cu	4	Ci St	6	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	988.3	+2	SW	4	o+	43	75	7	1500	St	1	a.St	9	1
Malin Head	996.6	+2	W'N	8	bc PR	45	85	7	7200	Cu Nb	5	-	5	*
Renfrew														
Edinburgh (Inchkeith)	991.6	+2	WSW	6	o	42	85	7	*	Cu	3	a.St	9	*
Leuchars	991.2	+2	WSW	6	o	42	85	7	4000	St Cu	3	a.St	10	1
Eskdalemuir	998.0	+2	WSW	6	o pr	39	85	7	1500	St Cu	10	-	10	2
Tynemouth	998.6	+2	W	4	c+	45	75	6	4000	Cu	4	Ci St	7	*
Blacksod Point														*
Donaghadee	1001.7	+1	WSW	3	bc	42	92	8	-	-	0	Ci Cu	4	*
Birr Castle		*												*
Holyhead	1005.6	0	SW	5	bc-	44	85	8	2500	Cu	2	a.St	5	0
Liverpool (Bidston)	1005.1	-1	W'S	5	b	44	75	9	-	-	0	-	0	*
Chester (Shotwick)	1006.0	+1	WSW	4	b	47	65	7	2500	Cu	1	-	1	1
Spurn Head	1003.8	+2	SW	5	bc	43	75	7	-	-	0	Ci Cu	4	*
Nottingham	1006.1	*	SW	4	b+	44	85	6	2500	Cu	2	-	2	*
Cranwell	1006.4	+1	WSW	4	b+	43	75	7	-	-	0	Ci Cu	3	0
Gorleston	1008.8	+2	SW	3	c+	43	75	7	-	-	0	Ci Cu	7	*
Valencia (Cahirciveen)	1007.9	-2	SW'W	4	bc+	46	85	8	2500	St Cu	2	a.Cu	5	2
Roches Point														*
Pembroke (St. Ann's H.)	1009.3	+1	W	5	c jp	46	85	8	1500	Nb	7	-	7	*
Ross-on-Wye	1008.8	0	WSW	3	bc	46	85	8	4000	Cu	5	-	5	1
Benson	1009.9	-1	WSW	4	bc	45	75	8	-	Cu	1	Ci	5	2
Andover	1010.7	0	SW	4	b	45	75	8	4000	Cu Nb	1	-	1	1
S. Farnborough	1010.7	+1	WSW	4	o	45	75	7	-	-	0	Ci	9	2
London (Kew Obsy.)	1010.2	-1	WSW	3	c+	44	75	6	-	-	0	Ci	7	2
Croydon	1010.9	-1	WSW	4	c+	46	65	6	-	-	0	Ci	8	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1010.0	0	W	2	bc	45	75	7	5700	St Cu	1	Ci	4	*
Grain	1010.4	0	SW	4	c	46	75	7	-	-	0	Ci St	7	2
Lympne	1011.1	-1	WSW	3	bc	45	75	8	2500	Cu	1	a.St	6	2
Scilly (St. Mary's)	1012.7	+1	W	4	bc	48	75	8	2500	Cu Nb	5	-	5	*
Falmouth (Pendennis)	1013.3	+2	W	4	bch(r)	48	75	7	4000	Cu Nb	5	-	5	*
Plymouth (Cattewater)	1012.3	0	W	3	b	46	75	7	2500	Cu Nb	2	-	2	1
Portland Bill	1011.5	+2	WSW	6	b+	48	85	7	-	-	0	Ci St	3	*
Southampton (Calshot)	1011.3	-1	W'N	4	bc-	47	75	8	-	-	0	Ci	6	2
Dungeness	1010.6	+1	W	5	bc+	46	85	8	-	-	0	Ci	5	*
Jersey	1013.7	0	W	4	o/r	48	75	7	2500	St Cu	10	-	10	*

Observations at 1800 G.M.T. 26th

STATIONS.	Barom. at M.S.L. in.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea 0-9
Lerwick	981.1	+4	WSW	5	o r	44	92	7	2500	Nb	10	-	10	4
Stornoway	988.0	+4	WSW	4	bc/r	41	75	6	4000	Cu	6	-	6	3
Wick	987.7	+8	WSW	5	o	40	85	8	2500	Nb	9	-	9	3
Castlebay	992.2	0	W	5	c/sh	43	85	6	1500	St Cu	7	-	7	7
Nairn	991.2	*	W	1	bc-	38	85	8	1500	St	2	a Cu	5	*
Aberdeen	992.9	+5	SW'W	4	bc-	41	75	7	5700	St Cu	5	-	5	1
Malin Head	996.6	0	SW	6	bc/sh	40	92	8	4000	Cu	2	a Cu	4	7
Renfrew														
Edinburgh (Inchkeith)	996.6	+4	W	5	bc r	40	92	7	*	Cu	6	-	6	4
Leuchars	995.9	+6	WSW	3	b-	36	92	7	-	-	0	-	0	*
Eskdalemuir	1000.1	+2	WSW	6	bs	37	85	7	2500	St Cu	3	-	3	*
Tynemouth														
Blacksod Point														
Donaghadee	1001.4	0	WSW	3	b	39	85	8	-	-	0	a Cu	3	2
Birr Castle		*												*
Holyhead	1005.2	0	SW'S	5	bc	44	85	8	2500	Cu	2	a St	4	4
Liverpool (Bidston)	1005.7	+2	SW	3	b+	41	85	7	-	-	0	Ci St	1	5
Chester (Shotwick)	1006.3	0	SSW	3	b	42	85	8	4000	Cu	1	-	1	*
Spurn Head	1005.6	+2	SW'S	5	b	41	75	8	-	-	0	Ci St	3	5
Nottingham	1007.8	*	SW	2	b	39	85	6	-	-	0	-	0	*
Cranwell	1007.8	+1	SW	4	b	39	85	6	-	-	0	a Cu	2	
Gorleston	1010.4	+1	SW	2	b-	38	92	7	-	-	0	-	0	0
Valencia (Cahirciveen)	1005.6	-1	SW	4	b	46	85	8	2500	St Cu	2	a St	3	4
Roches Point														
Pembroke (St. Ann's H.)	1008.8	-1	W	4	bc/r	45	75	8	2500	Nb	4	-	4	4
Ross-on-Wye	1009.4	+1	SW	2	bc+	39	85	7	4000	Cu	4	-	4	*
Benson	1010.7	+2	SW	3	b-	38	85	8	-	Cu	1	-	1	*
Andover	1011.2	+1	SW	3	b	37	97	8	-	-	0	-	0	*
S. Farnborough	1011.3	+1	WSW	2	b	38	92	7	-	-	0	-	0	*
London (Kew Obsy.)	1011.4	+2	WSW	2	b	39	85	5	-	-	0	-	0	*
Croydon	1011.7	+1	SW	3	b-	39	85	6	-	-	0	-	0	*
Clacton-on-Sea	1010.4	+1	WNW	3	b	41	92	6	-	-	0	a Cu	3	1
Shoeburyness	1010.6	0	WSW	3	b	40	85	7	-	-	0	-	0	*
Grain	1011.6	+1	SW	4	b	40	85	8	-	-	0	-	0	3
Lympne	1011.9	+1	W	3	b	38	92	7	-	-	0	-	0	*
Scilly (St. Mary's)	1012.0	0	W'S	5	b	46	85	8	4000	Cu	2	-	2	6
Falmouth (Pendennis)	1012.8	0	W	4	bc PR	43	85	7	4000	Cu Nb	5	-	5	1
Plymouth (Cattewater)	1012.3	0	W	3	b-	45	75	8	-	-	0	-	0	1
Portland Bill	1011.5	0	W'S	5	b	47	75	7	-	-	0	Ci St	3	4
Southampton (Calshot)	1011.9	+1	W'S	3	b	41	92	8	-	-	0	-	0	0
Dungeness	1011.6	+1	W	4	b	43	97	8	-	-	0	-	0	4
Jersey	1013.9	0	W	4	bc	47	65	7	4000	St Cu	6	-	6	4

LONDON OBSERVATIONS

24 HOURS ENDED 0600 G.M.T. 27th

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. Day.	Rainfall. Night.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 6h. G.M.T. %
									Yesterday.	To-day.	
Kew } 24 hours ended 0700	bcm3c3	c3bm	bmbmoc	*	*	29	Tr.	Tr.	4.6	*	*
Croydon } 24 hours ended 0700	bc3	cb3m	bmobq	*	*	31	-	Tr.	4.8	*	*
Greenwich (Royal Obsy.)	bc	bcb	bwxor	46	36	30	-	2	5.0	45	92
City (Bunhill Row)	*	*	*	*	*	*	*	*	1.1	*	*
Westminster (St. James' Pk.)	*	*	*	47	39	30	0.6		3.0	78	91
Regent's Pk. (Botanic Gdns.)	*	*	*	*	*	*	*	*	2.6	*	*
Camden Square	b	bc	*	45	38	33	*	0.3	*	*	95
Kensington Palace	b	b	oo	47	38	28	*	0.4	*	86(2h)	94
Hampstead Observatory	*	*	*	43	36	27	-	0.5	4.1	*	92

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 26th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 26th 16h. 45m. to 27th 04h. 00m.

Stars.	Exposure. h. m.	Record. h. m.	Record. %
Polaris	14.15	13.45	96
δ Ursae Minoris	14.15	13.31	95

CODE FOR STATE OF GROUND.

0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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 sched snow).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.¹

Time.	Type.	No. per 4 sec.	Strength.	Direc.
15h.	-	..	-	-
19h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

27th-28th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4	11.54	3.43
	8.6	11.55	3.44
Greenwich	8.8	12.1	3.55
	8.8	12.2	3.56
Wick	8.5	12.13	3.21
	8.5	12.14	3.22
Valencia	8.51	12.42	4.34
	8.51	12.43	4.35

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, 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 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.

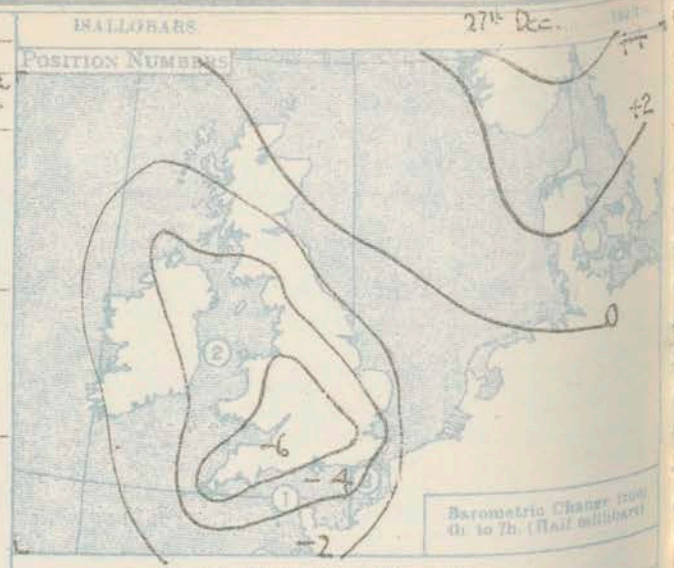
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1- 3
2	4- 7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.-13h. 26th	Weather. 13h.-18h. 26th	Weather. 18h. 26th to 1h. 27th	Weather. 1h.-7h. 27th	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass	Rainfall† Day. 7h.-18h. mm.	Rainfall† Night. 18h.-7h. mm.	Rainfall† Precipitation began.	Rainfall† Precipitation began.	Sun. 26th Hours.
Lerwick	bp	omr	bcq	bcpq	44	38	•	2	3	<0800	<21.00	0.0
Stornoway	p	p	r:d	b	44	34	•	4	2	1100	-	0.0
Wick	or₀r₀	oo	b:bc	b:bc	44	35	•	0.2	-	<0800	-	•
Castlebay	hp.cm	omhpc	cop	ohpc	45	38	•	0.5	1	-	-	1.5
Nairn	cirq	c.bc	ir cbc	xbc	43	34	•	1	0.4	1100	<21.00	0.0
Aberdeen	cq.o	cq.bc	b:bc	b:bc	44	38	31	-	-	-	-	0.0
Malin Head	cPRH	cPHR	coPR	coPR	45	35	•	2	5	<0800	<21.00	2.9
Renfrew			ohiy	oiro		36	35		6		22.00	*
Edinburgh (Inchkeith)	iPR	ir	ir	bc	42	40	36	1	?	1530	-	0.5
Leuchars	op.r₀	o.cq bcq	bcorbbc	b:bc	43	36	28	Trace	1	<0800	<21.00	0.6
Eskdalemuir	opo	e.bc	opr	opr	39	35	34	1	2	<0800	<21.00	0.1
Tynemouth	cmq		cmqp₀	bc.b	45	38	32		2		24.00	•
Blacksod Point ...							•					•
Donaghadee	bcq	bc	bc	bc	43	38	•	-	-	-	-	•
Birr Castle ...												
Holyhead	oo.bc	bc.c.b	coc	cocpc	45	42	42	-	0.1	-	0430	1.4
Liverpool (Bidston) ...	bor bc	b	r:d	r:d	45	40	32	-	4	-	03.30	6.2
Chester (Shotwick) ...	bc.b	b.bc.b	bbcoir	oPRqm	47	37	28	-	3	-	22.00	•
Spurn Head	bor bc	bor bc	b:bc	b:bc	43	36	•	-	-	-	-	3.9
Nottingham	bor bc	bor bc	b	b	44	35	30	-	-	-	-	4.4
Cranwell	bor bc	bor bcm	bm	mb	43	36	34	-	-	-	-	6.3
Gorleston	b.bc.c	c	bx	bbcx	43	35	28	-	-	-	-	3.4
Valencia (Cahirciveen)	cp.bc	cp.bc	orh	oprcp	48	39	37	3	6	<0800	<21.00	?
Roches Point							•					•
Pembroke (St. Ann's H.)	p	c.oqp	bcp	b	48	44	•	0.2	1	0900	<21.00	2.9
Ross-on-Wye	bc	bc.b	bch bc	dd	47	39	30	-	0.2	-	<21.00	5.6
Benson	bc	bc.c	bbc	bcpc	46	34	29	-	Trace	-	06.30	•
Andover	b	b	b.bc	op	46	33	26	Trace	0.4	-	0430	5.8
S. Farnborough ...	c	o.c.bc.b	bc.o	oordd	45	36	26	-	0.6	-	0430	5.4
London (Kew Obsy.) ...	bcmw cz	cz.bm	bmbmx	bmxc	45	37	29	Trace	Trace	-	-	4.6
Croydon	bcz	c.bzm	bm	bmopr	47	36	31	-	Trace	-	06.30	4.8
Clacton-on-Sea ...	b.bc.c	c.bcm	bcbm	bmbc	43	39	34	-	-	-	-	1.9
Shoeburyness	b.bc	bc.b	bx	bc	47	31	26	-	-	-	-	4.4
Grain	c	c	bxbx	bxbco	47	37	28	-	-	-	-	4.7
Lympne	c	bc.c.b	bx	bxo	46	35	30	-	Trace	-	-	5.3
Scilly (St. Mary's)	bcphr	bcphq	b	bcoqp	49	44	•	1	2	<0800	<21.00	4.1
Falmouth (Pendennis)	b.p.bch	bcpq	bccpq	obcpq	49	42	•	2	5	1230	<21.00	5.3
Plymouth (Cattewater)	b.cpr b	b.bc.b	bor	or	48	44	39	0.2	4	<0800	22.00	5.4
Portland Bill	b.bc	bor bc	bc	bccqp	50	42	•	-	1	-	01.30	•
Southampton (Calshot)	c	bc.b	bcb	bbcor	48	39	36	-	3	-	03.30	5.5
Dungeness	bor bc	bor bc	b:bc	b	47	40	•	-	0.3	-	02.30	•
Jersey	bcp.o	o.bc	b.	obo	50	43	•	0.3	1	0900	22.00	3.7

ISALLOBARS 27th Dec. 1922



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Remarks.
2	26th 10h	Cambria	WSW	6	bc	43	49	8
3	27th 3h	Brighton	SW	5	bcjp	46	48	9

GENERAL INFERENCE.

The depression near the Faroes is filling up with little change of position, and a secondary now over Western England is moving East. Winds generally will vary between Southwest and Northwest. Over England weather will be cloudy to overcast at first with some rain, followed later by brighter periods. Over the remainder of the British Isles changeable conditions with showers and bright intervals will continue. Temperature generally will remain about normal for the time of year.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Wednesday 27th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind southwesterly, moderate or fresh, strong in places, veering later; cloudy or overcast with some rain at first, fair periods later; visibility mainly good; temperature about normal.	Changeable and unsettled.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Winds between S.W. and N.W, moderate, fresh or strong in places; bright periods, some showers of rain, hail or sleet; visibility mainly good; temperature about normal.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0920. GMT. G. C. SIMPSON, F.R.S., Director.

† For Code see opposite page.

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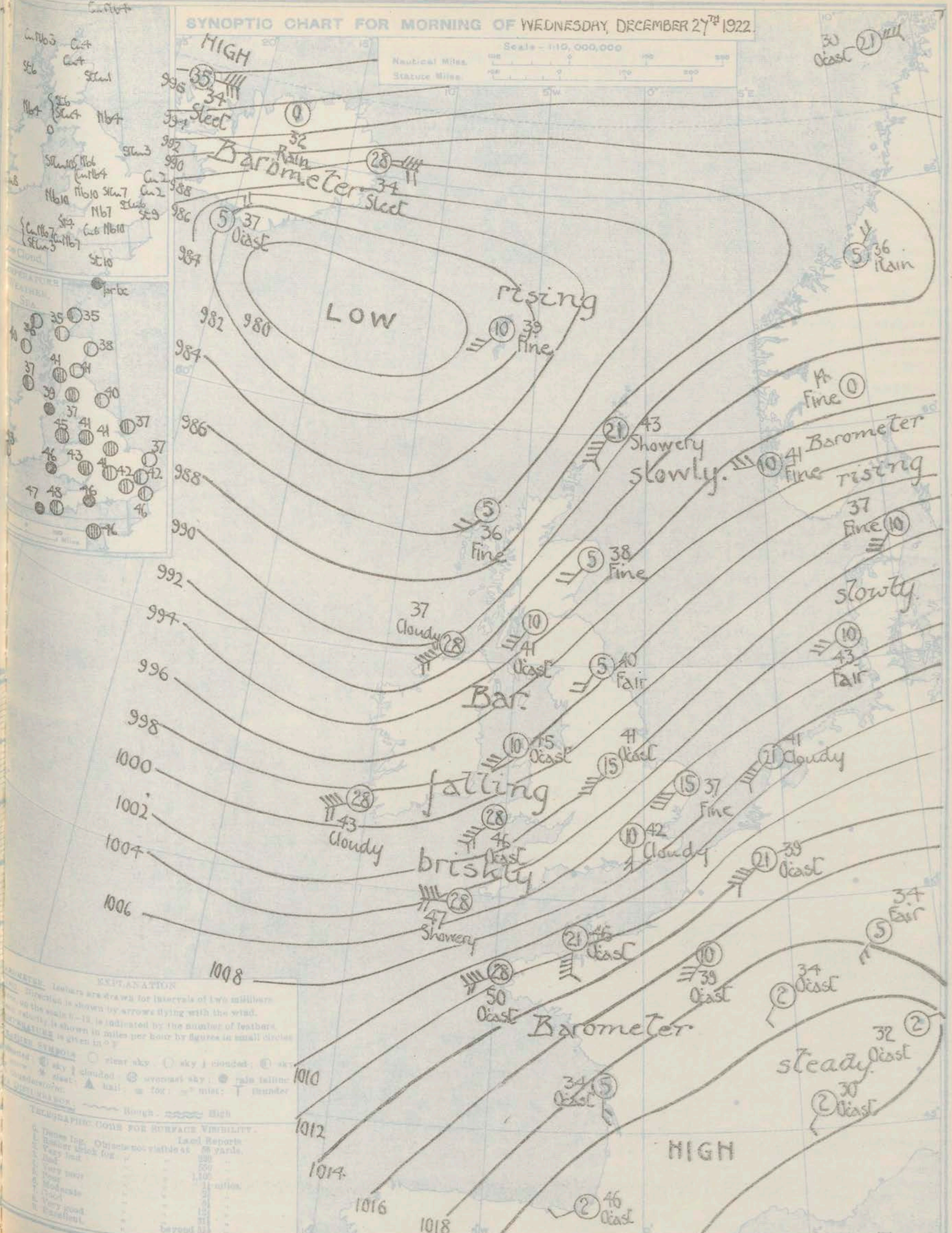


AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION... Wednesday, 27th December ... 1922. No. 361

Observations at 0100 G.M.T. ... 27th ...

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	989.7	+4	WSW	6	bc	43	75	7	5700	CuNb	2	ACu	5	.
Stornoway	988.4	-2	SW	3	PR	.	.	4	.	.	.	.	.	.
Wick	989.6	0	SW	4	bc	38	92	8	5700	Cu	4	Ci	5	.
Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Aberdeen	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Malin Head	993.1	0	WSW	6	bc/r	43	85	8	4000	CuNb	5	-	5	.
Renfrew	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Edinburgh (Inchkeith)	994.7	-2	SW	3	bcr.	42	85	7	-	St	6	-	6	.
Leuchars	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eskdalemuir	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tynemouth	999.7	-1	SW	3	bjp	41	92	6	4000	CuNb	2	-	2	.
Blacksod Point ...														.
Donaghadee	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Holyhead	1001.7	-3	SW'S	5	c	47	85	8	2500	St	7	-	7	.
Liverpool (Bidston) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chester (Shotwick) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spurn Head	1004.4	-2	S	4	b	37	92	7	1500	St	2	-	2	.
Nottingham	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cranwell	1006.7	-2	SW	4	b	37	85	6	-	-	0	ASt	2	.
Gorleston	1003.8	0	SW	3	b-	35	92	7	-	-	0	-	0	.
Valencia (Cahirciveen)	1003.2	+1	SW	3	c	46	92	6	-	St	7	-	7	.
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	1005.6	-3	SW'W	4	bcjp	47	75	8	2500	Nb	5	-	5	.
Ross-on-Wye	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Benson...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Andover	.	.	.	.	.	.	.	.	.	.	.	.	.	.
S. Farnborough ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
London (Kew Obsy.)...	.	.	.	.	39	.	.	.	.	.	.	.	.	.
Croydon	1011.3	-1	SSW	3	b	37	92	7	-	-	0	-	0	.
Clacton-on-Sea ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Shoeburyness	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Grain	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lympne	1012.1	0	SW	2	b	37	97	8	-	-	0	-	0	.
Scilly (St. Mary's) ...	1008.9	-2	W'S	5	bPR	48	92	7	2500	CuNb	3	-	3	.
Falmouth (Pendennis)	1009.2	-4	WSW	5	cPH	47	85	7	2500	CuNb	7	.	7	.
Plymouth (Cattewater)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland Bill	1009.6	-4	WSW	6	bc†	45	85	7	-	-	0	CiCu	4	.
Southampton (Calshot)	1011.1	-2	SW	4	b	42	92	8	4000	StCu	2	-	2	.
Dungeness	1012.0	+1	W	3	b	43	97	8	-	-	0	ACu	2	.
Jersey (7h)	1013.9	-1	SW	3	cpr.	45	92	7	5700	CuNb	7	-	7	.
Guernsey (1h)														

Observations at 0700 G.M.T. ... 27th ...

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	989.1	+1	SW	5	bcpr	43	85	7	4000	CuNb	4	-	4	4
Stornoway	989.4	-1	SW	2	b	36	85	7	4000	CuNb	3	-	3	2
Wick	988.2	+1	SW	3	bc	35	97	8	5700	Cu	4	-	4	3
Castlebay	986.8	-2	SW	4	bc/h	40	75	6	1500	St	6	-	6	4
Nairn	989.0	.	-	0	bc-	35	85	8	4000	Cu	4	-	4	.
Aberdeen	992.2	+1	SW	2	b	38	75	7	5700	StCu	1	-	1	0
Malin Head	990.0	-4	SW	6	c/r	37	92	8	5700	Nb	4	ACu	7	7
Renfrew	993.0	-4	SSW	3	o/r	41	85	7	2500	St	10	-	10	.
Edinburgh (Inchkeith)	993.6	-1	SSW	2	b-	41	85	8	-	St	2	-	2	2
Leuchars	992.6	-2	SW	4	b+	40	85	7	4000	StCu	1	ASt	3	.
Eskdalemuir	995.4	-3	SW'S	2	o	37	92	7	1500	StCu	9	-	9	.
Tynemouth	997.4	-3	SSW	2	bc/r	40	92	6	4000	Nb	4	-	4	0
Blacksod Point ...														
Donaghadee	996.4	-4	SW	3	bc+	39	85	8	-	-	0	ASt	6	2
Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Holyhead	996.7	-5	SW'S	3	c+	45	85	8	2500	StCu	10	-	10	4
Liverpool (Bidston) ...	999.6	-4	SSW	4	o/r	41	97	8	1500	Nb	10	-	10	5
Chester (Shotwick) ...	998.4	-6	SSE	2	od.	42	92	5	2500	Nb	10	-	10	.
Spurn Head	1001.8	-3	S'E	4	c	37	92	7	4000	StCu	3	ASt	7	4
Nottingham	1001.8	.	SSW	4	o+	41	92	6	2500	Nb	10	-	10	.
Cranwell	1003.1	-4	S'W	4	b	38	92	7	4000	StCu	1	Ci	2	.
Gorleston	1004.5	-1	SW	4	b+	37	97	7	4000	Cu	2	-	2	0
Valencia (Cahirciveen)	999.6	-2	W'S	6	c-	43	75	8	2500	StCu	8	-	8	-
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	1000.2	-5	SW	6	or	46	85	8	1500	Nb	10	-	10	5
Ross-on-Wye	1002.5	-6	SSW	4	o/r	43	85	8	2500	Nb	10	-	10	.
Benson...	1005.1	-6	SSW	5	c+	41	92	7	-	StCu	7	-	7	.
Andover	1005.8	-5	S'W	4	c	41	97	8	1500	Nb	7	-	7	.
S. Farnborough ...	1003.6	-3	SSW	3	odd.	43	92	7	1500	StCu	10	-	10	.
London (Kew Obsy.)...	1006.7	-6	S	3	c	42	92	7	2500	StCu	6	ACu	8	.
Croydon	1004.4	-4	SSW	4	o/r	43	85	7	1500	St	8	CiSt	10	.
Clacton-on-Sea ...	1008.0	-3	SSW	4	bc+	42	92	7	2500	Cu	2	ASt	5	2
Shoeburyness	1007.9	-6	SW	5	bc+	41	85	7	4000	Cu	6	-	6	.
Grain	1008.2	-4	S	4	o+	42	92	8	5700	StCu	6	ASt	9	0
Lympne	1009.2	-3	SSW	4	o	43	92	7	800	St	9	-	9	.
Scilly (St. Mary's) ...	1004.1	-6	W	6	oPR	47	85	7	4000	CuNb	10	-	10	6
Falmouth (Pendennis)	1004.2	-6	WSW	5	c/r	48	85	7	4000	CuNb	7	-	7	3
Plymouth (Cattewater)	1004.5	-5	SW	6	or	49	85	8	1500	St	9	-	9	1
Portland Bill	1006.1	-6	SW	6	bcpr.	46	85	7	1500	Cu	6	-	6	6
Southampton (Calshot)	1006.9	-5	SW	5	or	46	92	6	800	Nb	10	-	10	3
Dungeness	1010.3	-1	SW	5	bc/r	46	92	8	4000	Nb	4	-	4	5
Jersey (7h)	1010.5	-2	S	5	o/r	46	85	7	1500	St	10	-	10	4
Guernsey (1h)														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR ... 26th Dec. 1922

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 25th °F.	Temperature. Max. Day. 26th °F.	Rainfall.† Night 17h.-9h. 25-26th mm.	Rainfall.† Day 9h.-17h. 26th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 26th hr.
Banff								
Montrose	-	-	38	43	0.2	-		0.1
Llandudno	cbc	bcb	39	46	0.3	-		4.0
Colwyn Bay ...	cbc	bc	41	45	.	-		4.8
Rhyl...	bc	bc	42	46	0.3	-		5.3
Southport	bc	bbc	42	45	0.2	-		4.7
Blackpool								
Harrogate	cp	cp	36	47	4	0.3		1.2
Skegness	b	b	34	44	-	-		5.0
Aberystwyth ...	roc	b	43	46	1	-		3.5
Bath								
Leamington Spa ...	-	-	36	43	.	-		3.5
Lowestoft	bbc	bcbcb	36	43	.	-		2.7
Felixstowe	b	bm	36	43	T	-		3.2
Southend	bc	bcb	36	47	T	-		2.1
Ilkley	ocphr	cpbcc	38	43	6	1		0.5

Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. Night. 25th °F.	Temperature. Max. Day. 26th °F	Rainfall.† Night 17h.-9h. 25-26th mm.	Rainfall.† Day 9h.-17h. 26th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 26th hr.
Paignton	bc	bbcb	35	49	1	-		0.9
Ilfracombe	cbcc	cpbc	43	51	-	0.1		7.1
Bude	bcpbc	bcpbc	43	49	2	1		4.5
Penzance	bc	bcp	41	50	4	1		4.7
Falmouth Observatory	bbcph	bcp	39	49	1	3		4.7
Torquay	b	b	39	50	1	-		5.0
Weymouth	bc	bcb	42	48	1	-		5.7
Bournemouth ...	b	b	36	47	-	-		5.6
Portsmouth (S'thsea)	b	b	40	46	1	-		5.8
Worthing	bc	bcb	35	47	1	-		4.9
Brighton	mb	b	37	46	1	-		4.6
Eastbourne	bcb	b	41	46	4	-		4.8
Hastings	bccb	bcb	37	47	3	-		3.7
Folkestone	mb	c	34	49	2	-		4.0
Tunbridge Wells ...	bc	bcb	36	47	0.3	-		5.5
Ramsgate	bcb	b	35	46	0.3	-		4.7
Margate	bcb	bcb	38	46	1	-		1.9
Deal	b.bc	c	37	47	3	-		3.5

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22316 Thursday, 28th December 1922.

Observations at 1300 G.M.T. 27th

Stations	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	State of ground.
Lerwick	991.0	+3	SW	3	bc	42	75	7	4000	Cu	5	-	5	*
Stornoway	984.9	0	SW	3	c/r	37	92	7	4000	Cu	7	-	7	*
Wick	987.9	-2	SW	4	o+	40	85	9	450	Cu	5	A.St	9	*
Castlebay	984.9	-2	SW	3	cPH	38	85	7	1500	St.	7	-	7	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	990.7	-3	SSW	2	c+	41	85	6	4000	St.Cu	8	-	8	1
Malin Head	985.3	-7	S	7	o/r	38	92	8	4000	Cu	3	A.St	9	*
Renfrew	990.9	-5	SW	2	b	41	85	7	5700	Cu	3	-	3	2
Edinburgh (Inchkeith)	990.7	-4	SW	2	c+	41	85	7	*	St.Cu	7	-	7	*
Leuchars	990.5	-3	SSW	1	o--	39	85	7	4000	St.Cu	7	A.Cu	9	1
Eskdalemuir	992.7	-3	-	0	bcm	34	92	7	1500	St.Cu	4	Ci.Cu	5	7
Tynemouth	993.8	-4	W	2	o/p	39	97	6	800	Nb	10	-	10	*
Blacksod Point														*
Donaghadee	994.2	-2	WSW	2	b	39	75	8	-	-	0	-	0	*
Birr Castle	994.6	*	S	2	bc/sh	38	85	8	2500	Cu	5	-	5	*
Holyhead	995.3	-3	WSW	5	bc	44	75	8	4000	Cu	4	A.Cu	6	0
Liverpool (Bidston)	995.4	+1	WSW	1	o/r	40	92	8	1500	St.	9	-	9	*
Chester (Shotwick)	996.3	-2	-	0	o/r	41	97	7	2500	St.	10	-	10	2
Spurn Head	994.5	-7	SSE	5	or₀r₀	43	92	6	4000	Nb	10	-	10	*
Nottingham	996.2		SW	3	orr	41	97	6	2500	Nb	10	-	10	*
Cranwell	996.7	-6	S'W	4	orr	44	97	6	800	Nb	10	-	10	1
Gorleston	1002.9	-3	SSW	6	or₀r₀	44	92	6	4000	Nb	10	-	10	
Valencia (Cahirciveen)	999.1	-2	W'S	7	o+	43	65	8	2500	St.	5	A.St.	10	2
Roches Point														*
Pembroke (St. Ann's H.)	999.1	-1	W'N	5	c/r	43	75	8	2500	Cu	7	-	7	*
Ross-on-Wye	998.0	-4	SW	3	or+	40	92	7	1500	Nb	10	-	10	2
Benson	998.0	-10	SSW	4	orr	43	92	6	*	Nb	10	-	10	2
Andover	999.4	-9	SSW	5	●orr	44	97	7	800	Nb	10	-	10	2
S. Farnborough	1000.1	-8	SSW	3	orr	48	92	6	800	Nb	10	-	10	2
London (Kew Obsy.)	1000.4	-9	S	2	or₀r₀	45	92	5	1500	Nb	10	-	10	2
Croydon	1001.1	-9	S'W	5	or₀r₀	44	97	6	800	Nb	10	-	10	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1002.2	-6	SW	5	od₀	45	85	7	1500	St.Cu	10	-	10	*
Grain	1002.8	-7	S	5	o/r	45	85	8	800	Nb	10	-	10	2
Lympne	1004.2	-7	SSW	7	o	43	92	7	800	St.	10	-	10	2
Scilly (St. Mary's)	1002.7	0	W'N	6	oPH	45	75	8	4000	Cu.Nb	9	-	9	*
Falmouth (Pendennis)	1002.1	-2	NNW	4	c/r	43	97	7	4000	Cu.Nb	7	-	7	*
Plymouth (Cattewater)	1001.2	-2	W	4	o/r	43	85	7	1500	St.	10	-	10	2
Portland Bill	997.7	-14	WSW	7	oRR	47	85	6	450	St.	10	..	10	※
Southampton (Calshot)	1000.4	-10	SW'S	7	ORR	45	97	6	800	Nb	10	-	10	1
Dungeness	1003.2	-8	SW	7	o/p	46	92	8	2500	Cu.Nb	10	-	10	※
Jersey 7h / Guernsey 1h	1004.9	-4	SSW	7	o/r	49	85	7	1500	Nb	10	-	10	※

Observations at 1800 G.M.T. 27th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	989.8	-4	SE	3	cpr₀	40	85	7	4000	Nb	8	-	8	2
Stornoway	984.6	0	SSW	4	bcpr	38	92	6	4000	Nb	6	-	6	3
Wick	987.2	-1	SW	3	b	35	92	8	4000	Cu	2	-	2	3
Castlebay	986.1	+1	WSW	3	o/r	40	92	6	1500	St.	10	-	10	3
Nairn	986.9	*	~	0	b	29	85	8	-	-	0	A.Cu	3	*
Aberdeen	989.3	-1	SW	1	b	34	85	?	2500	St.Cu	1	-	1	1
Malin Head	985.8	+4	NW	8	cPH	42	92	8	4000	Cu.Nb	8	-	8	7
Renfrew	989.6	-1	SE	1	o+	31	92	6	4000	St.Cu	10	-	10	*
Edinburgh (Inchkeith)	989.9	0	S	2	b	37	85	8	-	-	0	-	0	1
Leuchars	989.7	0	-	0	b	30	92	7	-	-	0	-	0	*
Eskdalemuir	990.4	-4	SSW	1	b	30	92	7	-	-	0	-	0	*
Tynemouth	992.4	-1	SW	1	o-	37	92	6	2500	St.	6	A.St	9	0
Blacksod Point														
Donaghadee	988.9	-3	SW	2	o	38	85	7	1500	St.	10	-	10	2
Birr Castle	994.7	*	W	3	c/s/h	38	97	6	2500	Cu	8	-	8	*
Holyhead	991.4	-5	SW'W	6	or	41	97	8	1500	Nb	10	-	10	5
Liverpool (Bidston)	993.0	-2	SW'S	3	c+	37	85	7	2500	Cu	4	A.St	7	4
Chester (Shotwick)	993.9	-2	SSE	2	bc+	36	85	8	5700	St.Cu	5	-	5	
Spurn Head	993.6	-1	SW'W	3	o⊕	38	97	7	1500	St.	3	A.St	10	4
Nottingham	996.0	*	SW	3	b	36	92	6	-	-	0	-	0	*
Cranwell	996.3	+2	SW'W	3	b/r	35	97	7	4000	St.	3	-	3	*
Gorleston	997.0	-6	SSW	6	orr	43	97	6	2500	Nb	10	-	10	6
Valencia (Cahirciveen)	1002.2	+5	WNW	6	o	43	75	7	2500	St.	6	A.St	10	7
Roches Point														
Pembroke (St. Ann's H.)	997.7	-2	W'S	6	o/p	44	65	8	2500	Nb	10	-	10	5
Ross-on-Wye	998.4	+1	SSW	2	b	36	85	8	-	-	0	-	0	*
Benson	999.5	+4	SW	2	b+	35	97	7	*	-	0	A.Cu	2	*
Andover	1000.4	+4	WSW	5	bc-	36	92	7	2500	St.Cu	6	-	6	*
S. Farnborough	1000.7	+4	WSW	2	b	36	92	7	-	-	0	Ci	1	*
London (Kew Obsy.)	999.7	+5	S	1	b/r	39	97	5	-	-	0	-	0	*
Croydon	1000.2	+3	WSW	4	bc/r	39	92	6	800	Nb	6	-	6	*
Clacton-on-Sea	998.0	-2	S	6	o/r	43	97	6	2500	Nb	4	A.St	10	5
Shoeburyness	999.0	-5	SW	4	o/r	42	85	7	1500	St.	10	-	10	*
Grain	999.6	0	WSW	5	bc	41	85	8	800	Nb	1	A.Cu	4	3
Lympne	1000.2	0	WSW	4	o/r	42	92	7	1500	St.	10	-	10	*
Scilly (St. Mary's)	1004.5	+2	W	7	b	43	75	8	4000	Cu.Nb	2	-	2	7
Falmouth (Pendennis)	1003.2	0	WNW	6	cpr₀	42	75	7	4000	Cu.Nb	8	-	8	3
Plymouth (Cattewater)	1002.7	+1	WSW	4	b/r	42	75	9	2500	Cu.Nb	1	-	1	1
Portland Bill	[illegible]	+5	WNW	7	o/r	44	85	7	1500	St.Cu	10	-	10	6
Southampton (Calshot)	1001.2	+4	W	3	b/r	38	97	8	-	-	0	A.Cu	2	0
Dungeness	999.6	-3	SW	6	or	45	97	7	1500	Cu.Nb	10	-	10	6
Jersey 7h / Guernsey 1h	1004.3	0	WSW	6	o/r	45	75	7	2500	St.Cu	10	-	10	6

London Observations — 24 Hours ended 0900 G.M.T. 28th (Kew, Croydon: 24 hours ended 0700)

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temperature Max. °F.	Temperature Min. °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)
Kew	orm	ormbm	bmbrox	*	*	31	9	0.1	0.1	*	*
Croydon	orr₀r₀m	or₀rq,m	bcbm	*	*	30	12	-	0.0	*	*
Greenwich (Royal Obsy.)	or	or	bc bx	46	36	30	7	-	0.0	91	86
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James' Pk.)	*	*	*	47	36	30	6		0.0	92	89
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	0.0	*	*
Camden Square	r	r	*	47	35	32	8	-	*	*	91
Kensington Palace	or	orbc	*	47	36	29	7	-	*	86(8h)	85
Hampstead Observatory	*	*	*	44	34	25	8	-	0.0	*	89

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hrs. ended 1800 G.M.T. 27th.

South Kensington

Max.	Time.	Min.	Time.
-	-	-	-

Kew Observatory

Max.	Time.	Min.	Time.
1.0 / 0.5	19h. 26th / 10h. 27th	0.3	3-6h 27th

Pole Star Record at Greenwich Obsy.

Exposure from 27th 16 h. 45 m. to 28th 07 h. 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14.15	12.48	90
δ Ursae Minoris	14.15	12.40	89

Code for State of Ground.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today (in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.

Time.	Type.	No. per 4sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom. 28th & 29th December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 / 8.6	11.55 / 11.55	3.44 / 3.45
Greenwich	8.8 / 8.8	12.2 / 12.2	3.56 / 3.57
Wick	9.5 / 9.5	12.14 / 12.14	3.22 / 3.23
Valencia	8.51 / 8.51	12.43 / 12.43	4.35 / 4.36

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers, is the speed at about 20 feet above the ground.

Sea Disturbance.
0 = no swell, 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.

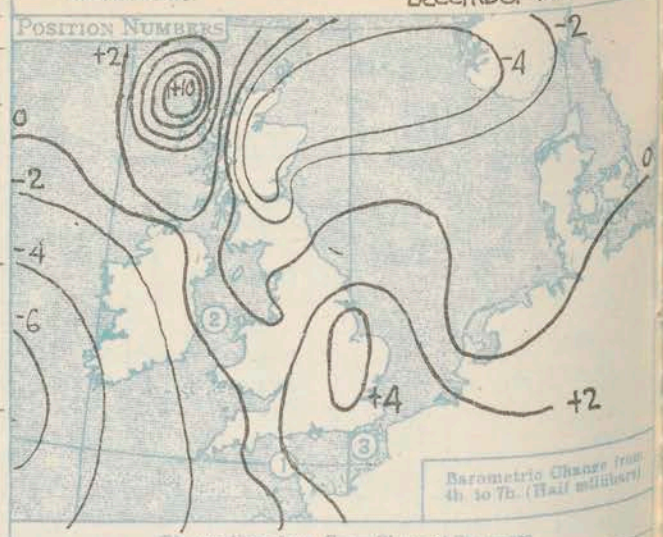
Beaufort No.	Statute miles per hour.
0	Less than 1
1	1-3
2	4-7
3	8-12
4	13-18
5	19-24
6	25-31
7	32-38
8	39-46
9	47-54
10	55-63
11	64-75
12	Above 75

For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

Summaries for the Past 24 Hours.

Stations.	Weather. 7h.–13h. 27th	13h.–18h. 27th	18h. 27th to 1h. 28th	1h.–7h. 28th	Temperature. Max. Day. 7h.–18h.	Min. Night. 18h.–7h.	Min. on Grass	Rainfall.† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	Sun. 27th Hours.
Lerwick	cpr	cprh	cp	bcb	42	35	•	2	3	L0800	<21.00	2.7
Stornoway	p	p	r:d	cpr	38	36	•	2	3	–	–	0.1
Wick	b.bc	b.bc	b:bc	cor.r	41	34	•	–	0.6	–	02.30	•
Castlebay	chpc	cPo	op	opbc	43	40	•	2	3	–	–	0.5
Nairn	bcbx	bx	bxBc	bcq	36	28	•	–	–	–	–	0.7
Aberdeen	bmcm	cmbm	brm x	bmx	41	30	18	–	–	–	–	0.0
Malin Head	COPR	Co	c PHR	IYS	43	40	•	1	1	1700	<21.00	1.4
Renfrew	oprplb	b:bxox	om	or r.	41	29	20	0.6	1	L0800	02.30	1.5
Edinburgh (Inchkeith)	c	clocb	bc	c	42	35	26	–	–	–	–	2.3
Leuchars	c	b.bc	bxomopp.	o	40	27	13	–	Trace	–	06.30	0.4
Eskdalemuir	osbc	ds.b	cos	o.s.	38	28	23	2	2	L0800	<21.00	0.6
Tynemouth	cropq	om	b:bcm	b:bcm	41	34	28	Trace	–	1230	–	•
Blacksod Point ...							•					•
Donaghadee	bcc	bcir.	bc	bcq	40	35	•	0.2	0.3	L0800	<21.00	•
Birr Castle ...	cpsb	Prse	pr.	pr.c	40	38	30	5	1	L0800	<21.00	•
Holyhead	omroc	bccor	(RHircqb	bccq	45	39	37	1	2	1730	<21.00	2.1
Liverpool (Bidston) ...	po	cb	ogrb		44	38	30	1	4	1100	<21.00	1.2
Chester (Shotwick) ...	oor	b.bc	opRm	oopr bx	43	35	30	1	3	0900	<2100	•
Spurn Head	copr	orr	bcpr.	opbc	43	34	•	2	0.2	1100	24.00	0.0
Nottingham	porr	r.ro	bcp.	Y	43	35	31	9	2	0900	<21.00	0.0
Cranwell	opder	orbc	bcrir.	c	44	33	32	9	0.6	1100	24.00	0.0
Gorleston	coqrr	orrq	bebx	bxbc	44	33	25	2	1	0900	<21.00	0.0
Valencia (Cahirciveen)	coph	oph.						1		L0800		
Roches Point							•					•
Pembroke (St. Ann's H.)	p	coq	c	c	47	42	•	4	0.2	L0800	<21.00	1.2
Ross-on-Wye	rr	rocvb	bcidcbq	bbcb	44	35	30	16	0.2	L0800	<2100	0.4
Benson	cRR	rocb	bbc	bcc	46	34	30	10	0.1	0900	–	•
Andover	orr	orroc	bbc	bcr	46	33	27	8	1	L0800	22.00	0.4
S. Farnborough ...	orr	orrcb	pr	bobcx	48	33	30	15	–	L0800	–	0.0
London (Kew Obsy.) ...	orm	ormbm	bm	bxox	46	36	31	9	0.1	L0800	<21.00	0.1
Croydon	orr.rom	or.rqm	bcbm	bc	46	35	30	12	–	L0800	–	0.0
Clacton-on-Sea ...	–	oqdroq	og bcm	bombcl	44	36	32	2	–	0900	–	0.0
Shoeburyness	od	od	oc	bcb	46	34	32	2	Trace	0900	<21.00	0.0
Grain	or.or	orqbc	bcbb	bbccx	45	35	29	4	–	1100	–	0.0
Lympne	orimm	oqr.rrm	oobcb	bx	44	33	30	4	–	0900	–	0.0
Scilly (St. Mary's) ...	ocq.ph	bq.ph	cbq.ph	cq.ph	48	43	•	6	3	L0800	<2100	1.4
Falmouth (Pendennis)	oq.rc	cqp	cq.po	obq	49	38	•	5	1	L0800	<21.00	1.1
Plymouth (Cattewater)	or	oprb	po pr	oprb	50	38	34	5	3	L0800	<2100	1.2
Portland Bill	coqr	orq.o	qq.pcq	coq	49	40	•	6	0.2	1100	<21.00	•
Southampton (Calshot)	cqpRRq	oirqqcbc	p	bbc	48	37	34	10	Trace	L0800	<2100	0.1
Dungeness	oq	p	b:bc	b:bc	46	39	•	4	1	1430	<21.00	•
Jersey 7h. ...	oqR	oqcro	h:rh	oq.pho	49	38	•	9	4	0900	22.00	0.3
Guernsey 1h.												

ISALLOBARS. December 28th. 1922.



Observations from Cross Channel Steamers.

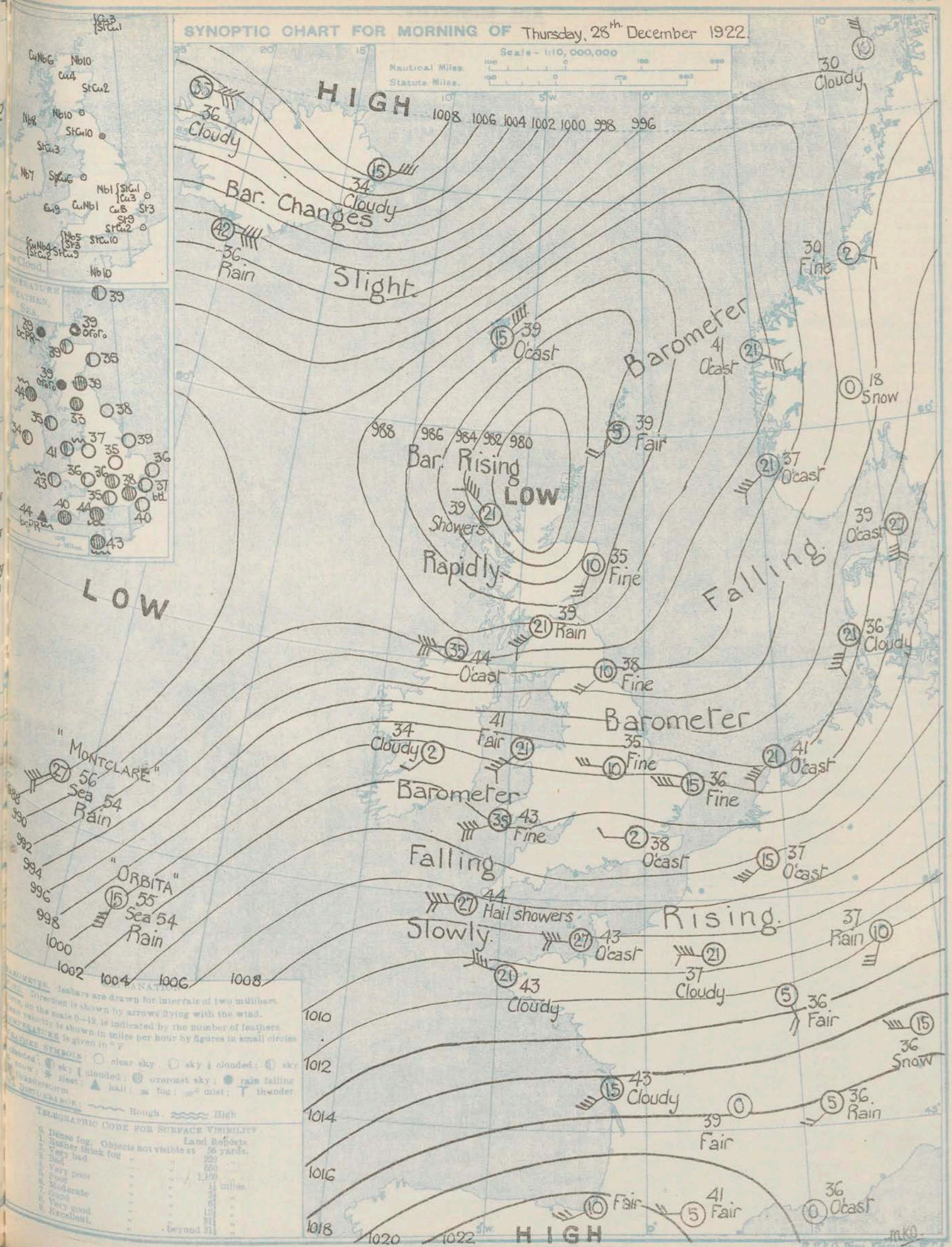
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Remarks.
2	27th 10h	Cambria	WSW	5	CV	41	49	–
3	28th 3h	–	WNW	6	PR–	44	48	4

General Inference.

A depression centred over North Scotland is moving East followed by another depression now over the Atlantic. Showers and bright intervals with a rather low temperature are likely at first giving place later to a temporarily milder period with S to S.W. winds and general rain.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday 28th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind westerly backing to SW or S, moderate or fresh strong in places, risk of gales later; fair at first with local rain or hail showers, general rain later; visibility good, deteriorating somewhat; rather cold then milder.	Unsettled generally. ----------
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind NW backing to SW or S, fresh or strong at times, risk of gales later; rain, hail, or snow showers at first with bright intervals, general rain later; visibility good, deteriorating somewhat; rather cold then milder temporarily.	South Cone hoisted at ▽ 1500 27th ▼ 0400 28th ⊽ 0945 28th ----------
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 1 to 10.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0908 GMT. G. C. Simpson, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Thursday, 28th December 1922.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
1008 1006 1004 1002 1000 998 996
35 36 Cloudy
15 34 Cloudy
42 36 Rain
Bar. Changes Slight.
30 Cloudy
30 Fine
18 Snow
15 39 O'cast
41 O'cast
Barometer
988 986 984 982 980
Bar. Rising
LOW
39 Showers
Rapidly
5 39 Fair
21 37 O'cast
39 O'cast
Falling
10 35 Fine
39 Rain
35 44 O'cast
10 38 Fine
36 Cloudy
Barometer
41 Fair
34 Cloudy
35 Fine
21 41 O'cast
15 36 Fine
Barometer
35 43 Fine
2 38 O'cast
Falling
15 37 O'cast
"MONTCLARE"
27 56 Sea 54 Rain
"ORBITA"
15 55 Sea 54 Rain
27 44 Hail showers
Slowly.
27 43 O'cast
Rising.
21 37 Cloudy
37 Rain
21 43 Cloudy
5 36 Fair
15 36 Snow
15 43 Cloudy
0 39 Fair
5 36 Rain
10 Fair
5 41 Fair
0 36 O'cast
LOW
HIGH
988 990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Thursday, 28th December 1922. No. 362

Observations at 0100 G.M.T. 28th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	987·3	-2	-	0	cpr°	37	92	7	4000	Nb	8	-	8	•
Stornoway	975·3	+5	SSW	3	r+	•	•	4	•	•	•	•	•	•
Wick	984·4	-3	SSW	4	bc+	39	85	8	-	-	0	ACu	6	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	989·9	+1	WNW	7	bc/h	42	85	8	5700	Nb	6	-	6	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	989·6	0	SW	2	b	36	85	8	-	St	1	-	1	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	992·0	0	W	1	b	34	97	6	-	-	0	-	0	•
Blacksod Point														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	996·5	+5	W'N	7	b-	43	92	8	2500	Cu	1	ASt	3	•
Liverpool (Bidston)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	992·4	-2	S	6	or°r°	36	92	7	4000	Nb	9	-	9	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	994·7	-2	WSW	5	opr°	38	92	6	1500	Nb	8	ASt	10	•
Gorleston	998·7	0	SSW	4	b	34	97	6	-	-	0	-	0	•
Valencia (Cahirciveen)	1002·8	0	WNW	5	oH(R)	42	92	6	-	St	10	-	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	1002·0	+1	W	6	c	44	75	8	2500	Nb	7	-	7	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.)	•	•	•	•	•	37	•	•	•	•	•	•	•	•
Croydon	1000·7	0	SW	4	b	37	85	7	-	-	0	-	0	•
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	1001·0	0	WSW	3	b	34	92	8	-	-	0	ACu	3	•
Scilly (St. Mary's)	1007·0	+3	NW'W	6	b	43	97	8	4000	Cu	2	-	2	•
Falmouth (Pendennis)	1006·2	+2	W	4	o	42	85	7	4000	CuNb	9	-	9	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	1012·3	+4	W'N	7	c/r	43	85	7	1500	Cu	7	-	7	•
Southampton (Calshot)	1002·3	+1	W	4	b/r	38	92	8	-	-	0	ASt	2	•
Dungeness	1000·8	-1	WSW	5	bc†	43	85	7	4000	Cu	4	-	4	•
Jersey 7h / Guernsey 1h	1009·2	+2	WNW	4	oPR+	41	85	8	4000	Nb	9	-	9	•

Observations at 0700 G.M.T. 28th

Stations	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind Direc.	Wind Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud Low Form.	Cloud Low Amt. 0-10	Cloud Upper Form.	Cloud Total Amt. 0-10	Sea. 0-9
Lerwick	985·5	-2	SW	2	bc†	39	75	7	4000	Cu	4	-	4	1
Stornoway	981·9	+11	NW	5	bcPR	39	92	6	4000	CuNb	6	-	6	4
Wick	979·6	-5	SSW	6	or°r°	39	92	7	2500	Nb	10	-	10	4
Castlebay	986·1	+3	WNW	2	bc	43	75	7	1500	Cu	6	-	6	3
Nairn	979·6	•	WNW	4	bc+	39	85	8	4000	Cu	4	-	4	•
Aberdeen	984·9	-4	SSW	3	b	35	85	6	4000	StCu	2	-	2	1
Malin Head	989·8	0	W	7	o/sr	44	85	7	5700	Nb	8	ACu	9	7
Renfrew	989·2	-1	SW	5	or°r°	39	92	6	1500	Nb	10	-	10	•
Edinburgh (Inchkeith)	986·9	-4	SW	5	o+	39	85	8	-	-	0	ASt	10	4
Leuchars	987·2	-2	SW	6	or°	37	85	7	1500	St	10	-	10	•
Eskdalemuir	992·5	0	SW'W	5	o/s	33	85	6	2500	StCu	10	-	10	•
Tynemouth	993·6	0	SW	3	b	38	85	6	-	-	0	-	0	1
Blacksod Point														
Donaghadee	995·0	0	WSW	3	bc+	35	92	8	4000	StCu	3	ASt	6	2
Birr Castle	1000·4	•	SW	1	c/r	34	97	6	1500	Nb	7	-	7	•
Holyhead	998·4	0	SW'W	5	bc	41	85	8	2500	StCu	6	-	6	5
Liverpool (Bidston)	998·5	+2	WSW	4	b/r	37	85	8	-	-	0	-	0	6
Chester (Shotwick)	997·6	0	SW	3	b/r	37	85	5	-	-	0	-	0	•
Spurn Head	998·6	+4	SW'W	5	b	39	92	6	1500	St	1	-	1	5
Nottingham	999·6	•	W	3	b-	35	92	5	2500	Nb	1	-	1	•
Cranwell	999·7	+4	W'S	4	bc†	35	92	6	2500	Cu	4	-	4	•
Gorleston	1000·4	+1	W	4	b+	36	92	7	-	-	0	CiSt	3	1
Valencia (Cahirciveen)														
Roches Point														
Pembroke (St. Ann's H.)	1001·8	-1	W'S	7	b	43	75	8	2500	Cu	3	-	3	6
Ross-on-Wye	1002·0	+1	SW	3	b+	36	85	8	4000	CuNb	1	ASt	3	•
Benson	1003·1	+2	WSW	3	c	36	92	8	-	StCu	5	ACu	7	•
Andover	1003·9	+2	SW'S	3	c	34	97	8	1500	CuNb	7	-	7	•
S. Farnborough	1003·4	+4	SW	3	bc+	35	97	7	2500	StCu	2	ACu	5	•
London (Kew Obsy.)	1003·7	+3	W'S	1	o+	38	85	7	2500	St	9	-	9	•
Croydon	1003·9	+3	WSW	4	c+	37	85	7	4000	StCu	4	ACu	8	•
Clacton-on-Sea	1001·5	•	W	4	bH	37	92	7	4000	St	3	-	3	2
Shoeburyness	1003·1	+3	WNW	5	b	37	85	7	4000	StCu	3	-	3	•
Grain	1003·7	+3	SW	4	c+	36	85	7	-	-	0	ASt	7	0
Lympne	1003·9	+3	W	4	bc+	35	92	7	4000	StCu	3	ACu	4	•
Scilly (St. Mary's)	1006·3	-1	W	6	bcPH	44	92	8	4000	CuNb	6	-	6	7
Falmouth (Pendennis)	1005·8	-1	W	4	o	40	97	8	4000	StCu	9	-	9	0
Plymouth (Cattewater)	1005·8	0	W	4	cPR	42	85	9	2500	Nb	8	-	8	6
Portland Bill	1003·6	+3	W'N	7	o+	44	85	7	1500	StCu	10	-	10	0
Southampton (Calshot)	1005·0	+3	W	4	b	37	92	8	4000	CuNb	1	-	1	5
Dungeness	1003·9	+3	WSW	5	b-	40	92	8	-	-	0	ACu	3	6
Jersey 7h / Guernsey 1h	1008·2	0	W	6	o/r	43	75	7	1500	Nb	10	-	10	

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR Dec. 27th 1922.

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. Night 26th °F.	Temperature Max. Day 27th °F.	Rainfall† Night 17h.-9h. 26-27th mm.	Rainfall† Day 9h.-17h. 27th mm.	Sunshine hr.	Sunshine Sunrise to Sunset 27th hr.
Banff								
Montrose	✻	✻	37	41	0·3	-		0·0
Llandudno	roc	b	38	44	3	0·2		1·8
Colwyn Bay	coc	bco	41	44	5	-		?
Rhyl	opc	bc	40	43	7	1		1·4
Southport	ocoro	ocbcb	37	42	8	1		0·5
Blackpool	roc	bhc	40	42	6	0·2		0·2
Harrogate	or	c	35	41	2	-		0·0
Skegness	bco	or	33	42	-	5		0·0
Aberystwyth	roc	b	41	45	11	-		1·5
Bath	orr	ocbc	37	48	-	5		0·2
Leamington Spa	or	orbc	35	45	-	6		0·0
Lowestoft	oid°	odor	35	44	0·2	1		0·0
Felixstowe	ouoir	or	36	44	0·2	1		0·0
Southend	od	do	36	44	-	2		0·0
Ilkley	oRd°	c	36	43	4	0·1		0·0

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. Night 26th °F	Temperature Max. Day 27th °F	Rainfall‡ Night 17h.-9h. 26-27th mm.	Rainfall‡ Day 9h.-17h. 27th mm.	Sunshine hr.	Sunshine Sunrise to Sunset 27th hr.
Paignton	orp	bcpbcq	41	47	7	3		1·3
Ilfracombe	or	orpL	39	47	9	13		0·0
Bude	rrpc	rrhc	42	49	2	2		0·3
Penzance	orc	bcpc	42	46	5	2		0·9
Falmouth Observatory	robcb	bbco	41	47	7	5		1·1
Torquay	r	pbco	41	47	9	3		1·3
Weymouth	popo	opc	44	48	1	6		0·7
Bournemouth	r	r	39	47	1	16		0·0
Portsmouth (S'thsea)	RR	orbc	40	48	4	13		0·0
Worthing	ocr	ro	34	47	-	4		0·1
Brighton	c	co	38	47	-	4		0·0
Eastbourne	o	ro	42	47	0·2	5		0·0
Hastings	op°	oy	39	46	1	5		0·0
Folkestone	dr	dr	38	48	0·3	3		0·0
Tunbridge Wells	o	oor	34	46	0·3	5		0·0
Ramsgate	o	o	36	45	-	•		0·0
Margate	co	or	38	46	-	2		0·0
Deal	odr	rq	37	45	-	0·3		0·0

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 22317 Friday, 29th December 1922. Page 1.

Observations at 1300 G.M.T. 28th

STATIONS.	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	Upper Form.	Total Amt. 0-10	State of ground.
Lerwick	984.1	-3	SSE	2	cpr_0	39	92	7	4000	CuNb	8	·	8	*
Stornoway	983.6	+2	W	4	bc-	41	92	6	4000	CuNb	4	·	4	*
Wick	981.4	+9	W	3	bh_0(G)+	39	92	8	2500	Nb	9	-	9	*
Castlebay	987.3	0	W	4	b	44	75	8	2500	Cu	2	·	2	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	985.6	+1	SW	3	b	40	85	7	-	-	0	ASt	3	1
Malin Head	990.0	0	WSW	5	o	44	92	8	5700	StCu	6	ACu	9	*
Renfrew	990.5	0	SW	4	or	38	92	6	1500	Nb	10	·	10	2
Edinburgh (Inchkeith)	987.9	-1	WSW	6	bc/r	39	85	7	*	CuNb	5	·	5	*
Leuchars	988.0	+1	SW	3	b	38	92	5	1500	StCu	2	ACu	3	1
Eskdalemuir	992.4	0	SW'W	5	orsrs	35	92	5	1500	Nb	10	·	10	7
Tynemouth	993.6	-1	W	3	b	40	85	6	2500	St	2	·	2	*
Blacksod Point														*
Donaghadee	995.2	0	WSW	3	b-	39	85	8	·	·	0	CiCu	2	*
Birr Castle	996.2	*	SE	1	o+	36	85	7	2500	St	9	-	9	*
Holyhead	997.1	-4	SW'S	4	c	42	85	8	2500	Cu	2	ACu	7	1
Liverpool (Bidston)	997.6	-1	SW	3	b	40	75	8	4000	StCu	1	CiSt	2	*
Chester (Shotwick)	998.6	-2	WSW	3	b	43	75	8	4000	Cu	1	CiSt	2	1
Spurn Head	998.1	0	SW'W	5	b	40	92	6	·	·	0	-	0	*
Nottingham	999.5	*	SW	4	b	41	85	6	·	·	0	-	0	*
Cranwell	1000.4	-1	SW	4	b	40	85	6	·	·	0	·	0	0
Gorleston	1002.7	+1	WSW	3	b-	42	75	7	·	·	0	Ci	2	*
Valencia (Cahirciveen)	992.9	-4	S'E	4	orr	43	92	6	800	St.	10	-	10	2
Roches Point														*
Pembroke (St. Ann's H.)	1000.7	-3	WSW	5	o	45	65	8	2500	St	10	-	10	*
Ross-on-Wye	1001.5	-2	SW	3	c+	39	85	7	4000	StCu	2	Ci	8	1
Benson	1002.6	-2	WSW	4	b	41	85	8	*	Cu	2	Ci	3	2
Andover	1003.2	-1	SW	3	b+	43	85	8	2500	St	1	Ci	3	2
S. Farnborough	1003.9	-1	SW	4	c	43	75	7	4000	Cu	7	·	7	2
London (Kew Obsy.)	1003.3	-4	SW	3	b	42	75	6	·	·	0	·	0	2
Croydon	1004.0	-2	SW	2	b	44	75	6	4000	Cu	1	Ci	2	2
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1003.7	+1	WSW	3	b	42	75	7	·	·	0	·	0	*
Grain	1004.1	-1	SSW	4	b-	43	75	8	4000	Cu	1	·	1	2
Lympne	1004.7	-3	SW'W	2	c+	42	85	8	2500	StCu	6	ASt	7	?
Scilly (St. Mary's)	1003.4	-4	SW'W	4	or_0r_0	47	97	6	2500	Nb	10	·	10	*
Falmouth (Pendennis)	1004.5	-3	SW	2	od_0	45	92	7	2500	Nb	10	·	10	*
Plymouth (Cattewater)	1003.6	-4	W	3	o	45	85	8	2500	StCu	4	ASt	10	1
Portland Bill	1003.4	-2	W	6	o	46	75	7	1500	StCu	10	·	10	*
Southampton (Calshot)	1003.8	-3	W'S	4	bc	44	75	8	4000	Cu	3	CiCu	5	0
Dungeness	1004.6	-2	WSW	5	bc+	43	92	8	2500	Cu	6	·	6	*
Jersey	1007.5	-0	SSW	4	o/r	43	97	7	1500	Nb	10	·	10	*

Observations at 1800 G.M.T. 28th

STATIONS.	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	Upper Form.	Total Amt. 0-10	Sea. 0-9
Lerwick	981.9	-1	SE	2	cjp	40	85	7	4000	CuNb	6	-	6	1
Stornoway	981.6	-2	W	3	oPR+	40	97	6	450	St.	10	·	10	2
Wick	982.0	0	SSW	3	o	38	92	8	2500	Cu	4	A.St	9	1
Castlebay	985.0	-2	NNW	2	bc+	41	75	7	2500	St.	2	A.St	6	3
Nairn	983.5	*	-	0	bc	36	85	8	-	-	0	A.Cu	4	*
Aberdeen	986.2	+1	SSW	3	b	35	92	6	-	-	0	A.St	1	0
Malin Head	986.8	-3	SSE	5	o	39	92	8	5700	St.Cu	6	A.Cu	9	5
Renfrew	988.4	-2	S	4	o/r	39	92	6	1500	St.Cu	10	·	10	*
Edinburgh (Inchkeith)	987.3	-2	W	6	o+	40	75	8	*	Cu.Nb	9	-	9	5
Leuchars	987.5	-1	SW	3	od_0	38	92	6	1500	St.	10	-	10	*
Eskdalemuir	990.4	-3	SW	4	o	34	92	7	4000	St.Cu	9	·	9	*
Tynemouth	992.7	-1	SW	2	o	39	85	6	-	-	0	A.St.	10	1
Blacksod Point														
Donaghadee	991.2	-2	WSW	3	c+	38	85	8	-	-	0	A.St	7	2
Birr Castle	986.2	*	E	1	orr	38	97	6	800	Nb	10	-	10	*
Holyhead	990.9	-6	S'W	3	or_0+	43	92	7	1500	Nb	10	-	10	3
Liverpool (Bidston)	986.9	-5	S	2	o+	37	92	6	1500	St.	10	-	10	3
Chester (Shotwick)	993.9	-4	SE	2	o	39	85	7	4000	St.	3	A.St	10	*
Spurn Head	995.6	-3	SSW	4	o≡	37	92	7	-	-	0	A.St	10	4
Nottingham	995.9	*	SW	3	o+	38	92	6	-	-	0	A.St	10	*
Cranwell	997.3	-4	S'W	4	o	36	92	6	-	-	0	A.St	10	*
Gorleston	1001.9	-1	SSW	4	o+	36	92	7	-	-	0	A.Cu	9	1
Valencia (Cahirciveen)	986.4	+1	WSW	5	b	50	85	8	2500	St.Cu	2	-	2	6
Roches Point														
Pembroke (St. Ann's H.)	991.2	-13	S	6	oRR	43	92	7	1500	Nb	10	-	10	6
Ross-on-Wye	995.6	-7	S	3	or_0	40	85	6	2500	Nb	10	-	10	*
Benson	997.8	-8	S	4	o+	39	92	9	*	-	0	A.St.	10	*
Andover	998.7	-5	SSE	3	or_0r_0	40	97	6	1500	Nb	10	-	10	*
S. Farnborough	998.4	-7	SW	2	od_0	41	92	5	*	Nb	10	-	10	*
London (Kew Obsy.)	999.5	-6	S	2	o	41	85	6	2500	St.Cu	10	-	10	*
Croydon	1000.5	-5	S	2	o	39	85	5	-	-	0	A.St	10	*
Clacton-on-Sea	1001.2	-3	SSW	3	o+	41	85	7	7200	St.Cu	10	-	10	2
Shoeburyness	1000.8	-4	SW	4	b+	39	85	7	4000	Cu	3	-	3	*
Grain	1001.2	-4	SSE	4	bc-	40	92	8	-	-	0	A.St	6	0
Lympne	1002.1	-3	SSW	3	opr_0	40	92	8	2500	CuNb	8	A.St	9	*
Scilly (St. Mary's)	990.7	-12	WSW	7	orr	52	97	5	2500	Nb	10	-	10	6
Falmouth (Pendennis)	991.5	-18	SW	5	orr	47	97	5	2500	Nb	10	-	10	3
Plymouth (Cattewater)	993.9	-12	SE	3	orr	44	97	6	800	Nb	10	-	10	0
Portland Bill	998.1	-10	S'W	6	or+	46	75	6	450	St.	10	-	10	5
Southampton (Calshot)	999.1	-7	SSW	4	or_0r_0	44	85	8	1500	Nb	10	-	10	0
Dungeness	1001.5	-4	WSW	5	cr_0	43	92	8	1500	Nb	8	-	8	5
Jersey	1003.1	-4	SSW	4	orr	46	92	6	1500	Nb	10	-	10	6

LONDON OBSERVATIONS. (Weather, Temperature, Rainfall: 24 Hours ended 0900 G.M.T. 29th; Sunshine and Humidity 15h.: Yesterday; Humidity 9h.: To-day)

LONDON OBSERVATIONS.	Weather Morning.	Weather Afternoon.	Weather Night.	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day.	Rainfall mm. Night.	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
Kew } 24 hours ended 0700	bcwmbz	bzom	ovrrom	*	*	38	-	1	4.4	*	*
Croydon } 24 hours ended 0700	cobmz	bzom	or_0r_0m	*	*	34	-	1	5.3	*	*
Greenwich (Royal Obsy.)	b	bo	ordo	48	36	32	-	1	5.4	77	84
City (Bunhill Row)	*	*	*	*	*	*	*	*	0.6	*	*
Westminster (St. James's Pk.)	*	*	*	49	36	32		1	4.1	78	85
Regent's Pk. (Botanic Gdns).	*	*	*	*	*	*	*	*	4.6	*	*
Camden Square	bx	b	*	48	35	33	-	2	*	*	88
Kensington Palace	o	o	*	48	37	37	-	2	*	83(18h)	87
Hampstead Observatory	*	*	*	46	34	28	1	2	4.8	*	84

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1800 G.M.T. 28th

South Kensington Max.	Time.	Min.	Time.
-	-	-	-

Kew Observatory Max.	Time.	Min.	Time.
0.3	19h. 27m	<0.3	0-6h.
0.3	12h. 28th		28th

POLE STAR RECORD at Greenwich Obsy.

Exposure from 28th 16 h 45 m to 29th 04 h 00 m.

Stars.	Exposure. h. m.	Record. h. m.	%
Polaris	14.15	0.30	4
δ Ursae Minoris	14.15	0.00	0

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2 ins. deep.
4 = Bare ground frozen (but more than 2 ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.

29th & 30th December, 1922.

STATIONS.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.55	3.45
	8.6	11.56	3.46
Greenwich	8.8	12.2	3.57
	8.8	12.3	3.58
Wick	9.5	12.14	3.23
	9.5	12.15	3.24
Valencia	8.51	12.43	4.36
	8.51	12.44	4.37

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r_0r_0 = continuous light rain.

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.

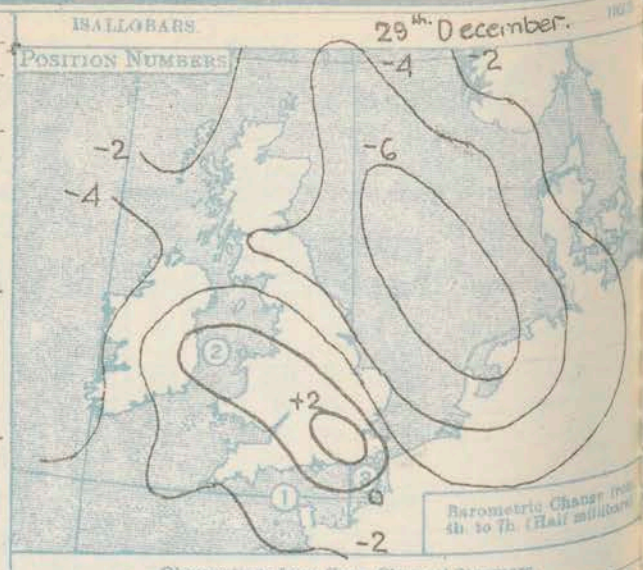
SEA DISTURBANCE.
0 = no swell, 1 = mod. swell, 2 = heavy swell } Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell } Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 28th	13h.-18h. 28th	18h. 28th to 18h. 29th	18h.-7h. 29th	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL.† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 28th Hours.
Lerwick	c	cp	cpr	cprq	43	37	•	2	4	<0800	<21.00	0.0
Stornoway	p	p	b:bc	b	41	30	•	2	0.2	-	-	2.3
Wick	rrrh	or.o	bcp.	c	41	33	•	2	0.2	<0800	24.00	•
Castlebay	cob	bc	oo	obbc	45	40	•	-	2	-	-	3.7
Nairn	ivcbc	bcbx	bxbc	bbx	40	31	•	1	-	1100	-	2.4
Aberdeen	bmxb	bbx	bxcm	ombcm	41	33	24	-	-	-	-	4.5
Malin Head	o	oo	givs	esro	44	35	•	-	2	-	22.00	0.9
Renfrew	opsir	orq.o	om	orrism	41	32	31	9	3	<0800	24.00	0.0
Edinburgh (Inchkeith)	p	iR	o	rr	40	35	34	4	1	-	02.30	1.9
Leuchars	oqebc	comro	oq.bcors	or.s	39	33	28	0.2	0.2	1430	<21.00	2.6
Eskdalemuir	orsm	or.so	ors	oq.	37	32	32	2	4	1100	<21.00	0.2
Tynemouth	bbcm	cmq	orrm	r.r.m	41	36	38	-	2	-	22.00	•
Blacksod Point ...							•					•
Donaghadee	bc	c	omrq	bc	40	34	•	-	4	-	<21.00	•
Birr Castle ...	co	CRR	orr	oirbc	38	38	31	2	2	1330	<21.00	•
Holyhead	bcc	coir.	oirdd	oq.o	44	40	40	0.1	1	1630	01.30	2.1
Liverpool (Bidston) ...	b-bc	bco	ocbc		46	35	29	-	Trace	-	-	4.6
Chester (Shotwick) ...	bb	b.bco	oprom	oocm	45	38	38	-	0.2	-	<21.00	•
Spurn Head	b-bc	bcog	r:a	r:a	40	36	•	-	1	-	22.00	5.1
Nottingham	b-bc	b	or.	om	41	34	35	-	0.4	-	22.00	4.2
Cranwell	b-bc	bom	or.rr	om	40	35	35	-	1	-	<21.00	5.5
Gorleston	bcb	b.bccx	oqrov	oqro	42	36	36	-	1	-	22.00	4.2
Valencia (Cahirciveen)	or.	orpcb	o	bcopq	?	44	41	7	3	11.00	<21.00	0.0
Roches Point							•					•
Pembroke (St. Ann's H.)	bcc	oorr	orpq	opc	46	42	•	4	2	1430	<21.00	1.1
Ross-on-Wye	bcbcc	ocod.r	r.ad	cbc	41	40	38	0.1	0.6	1730	<21.00	3.5
Benson	cbcb	b.bco	or.	o	43	39	41	-	0.5	-	<21.00	•
Andover	cbcb	bccorr	or.r.rr	cr	43	39	38	0.2	3	1730	<21.00	4.6
S. Farnborough ...	b-bc	c	r.orrcc	oro.o	43	40	39	Trace	1	-	<21.00	4.9
London (Kew Obsy.) ...	bcrmbz	b3om	omrom	omom	43	40	38	-	1	-	<21.00	4.7
Croydon	cobmz	b3om	or.r.m	obbc	45	39	37	-	1	-	<21.00	5.3
Clacton-on-Sea ...	bccbc	bcco	oqr	orocq	42	41	38	-	Trace	-	<21.00	4.5
Shoeburyness	b	b	pbcco.r	o	48	38	37	-	1	-	<21.00	5.1
Grain	cbcb	b.bcoc	bcobr	oopro	44	37	34	-	1	-	22.00	5.0
Lympne	bcbbcc	cojor	oprrr	o	43	40	38	0.1	4	1730	<21.00	4.2
Scilly (St. Mary's)	omqr	omqrr	oq	ocq	52	49	•	13	1	<0800	<21.00	0.0
Falmouth (Pendennis)	ocobd	omrr	omro	ocbcb	47	47	•	10	5	<0800	<21.00	0.1
Plymouth (Cattewater)	cpro	orr	orr	o	46	44	43	8	7	<0800	<21.00	0.1?
Portland Bill ...	oo	oqr	oq	oq	49	43	•	3	4	1530	22.00	•
Southampton (Calshot)	bc	oro.o	orr.co	c	46	42	42	0.5	3	1530	<21.00	3.1
Dungeness ...	b-bcq	p	oirrq	o	45	43	•	0.1	3	1630	<21.00	•
Jersey ...	oqro	orr	r:a	orro	46	45	•	6	10	0900	22.00	0.0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air	Temp. Sea	
2	28th. 10h	Cambria	WSW	5	bcv	41	49	-
3	29th. 3h	Brighton	WSW	6	c	43	48	8

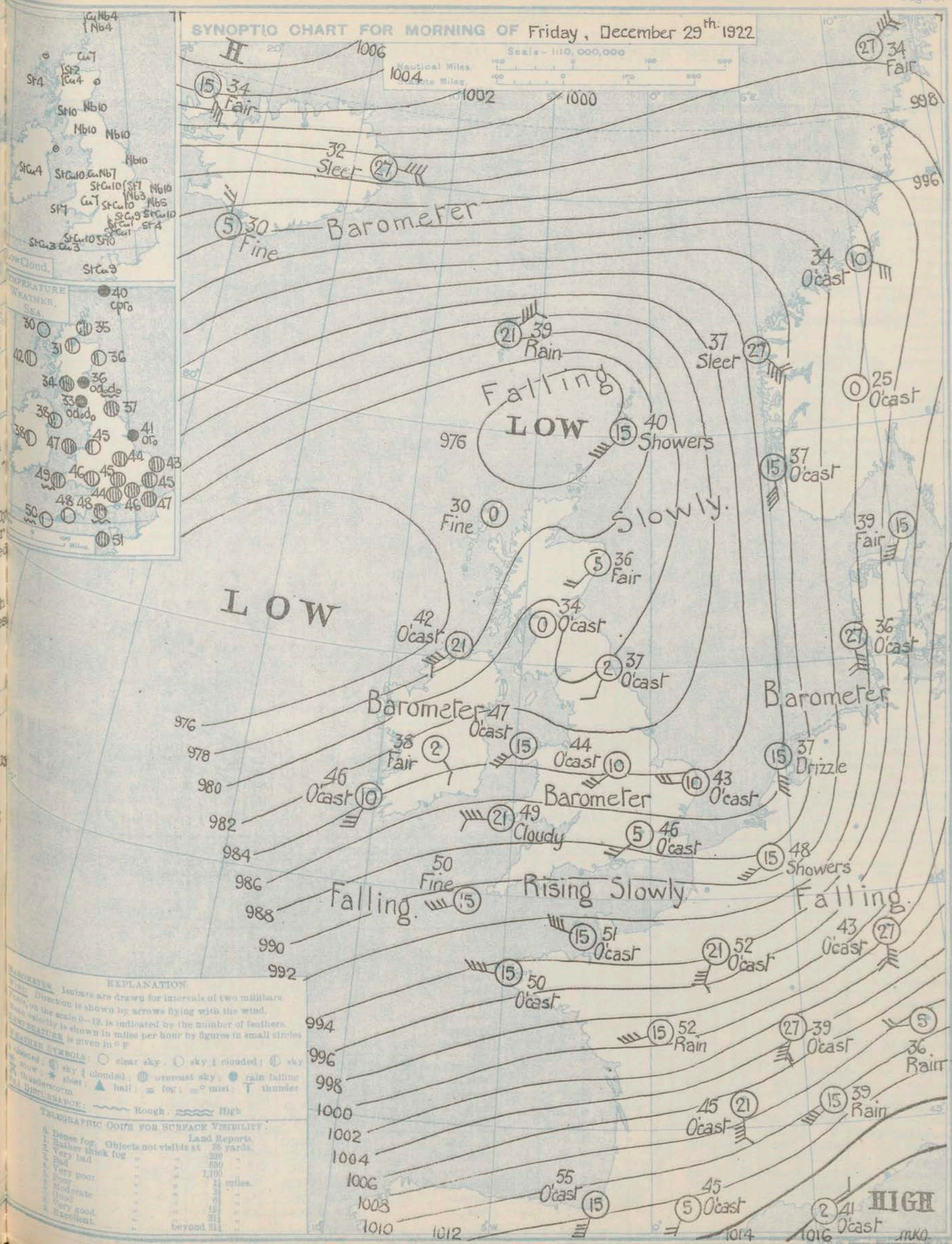
GENERAL INFERENCE.

Depressions crossing the British Isles from the Atlantic will maintain a very unsettled type of weather. Over the Southern half of England winds will blow strongly from between S. and W. with rather mild, fair to cloudy weather followed by further rain and a somewhat lower temperature. In the North conditions will continue cold with variable winds, rain or snow at times and brighter periods. Conditions will remain generally unsettled over the week-end.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Friday, 29th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Winds between S. and W., fresh or strong, a gale at times in exposed places; fair to cloudy and rather mild at first, followed by some rain and a somewhat lower temperature; visibility mainly good.	Unsettled generally South coast flying all coasts.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Winds variable, mainly south-westerly, moderate, fresh or strong at times; variable cloud, occasional rain, in places sleet or snow; visibility mainly good; rather cold.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind variable, mainly light or moderate; bright periods, occasional rain or snow; visibility mainly good; cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 to 10.	

MAS

† For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Friday, December 29th 1922
Scale - 1:10,000,000
Nautical Miles
Statute Miles
H
1006
1004
1002
1000
998
996
15 34 Fair
32 Sleet 27
5 30 Fine
Barometer
27 34 Fair
34 O'cast 10
21 39 Rain
37 Sleet 27
0 25 O'cast
Falling
LOW
976
15 40 Showers
15 37 O'cast
30 Fine 0
Slowly.
39 Fair 15
5 36 Fair
LOW
42 O'cast 21
0 34 O'cast
2 37 O'cast
27 36 O'cast
Barometer
Barometer
38 Fair 2
15 47 O'cast
15 44 O'cast 10
15 37 Drizzle
46 O'cast 10
10 43 O'cast
Barometer
21 49 Cloudy
5 46 O'cast
15 48 Showers
50 Fine 15
Falling.
Rising Slowly
Falling.
15 51 O'cast
21 52 O'cast
43 O'cast 27
15 50 O'cast
15 52 Rain
27 39 O'cast
5 36 Rain
45 O'cast 21
15 39 Rain
55 O'cast 15
5 45 O'cast
2 41 O'cast
HIGH
976
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
Low Cloud.
Temperature
Weather.
Sea
40 Cpro
30 35
31 36
42 36
34 36 odo
33 odo 37
38 41 Oro
38 47 45
44 43
49 46 45 45
48 48 44 46 47
50 51
Cu Nb4
Nb4
Cu7
St2
St4 Cu4
St10 Nb10
Nb10 Nb10
Nb10
StCu4 StCu10 CuNb7
StCu10 St7 Nb10
Nb3
St7 Cu7 StCu10 Nb5
StCu9 StCu10
StCu1 St4
StCu3 Cu3 St10
StCu9
Change from half millibars
Temp.
Sea
49
48
EXPLANATION
BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind.
Mean velocity is shown in miles per hour by figures in small circles on the scale 0—12, is indicated by the number of feathers.
TEMPERATURE is given in ° F.
WEATHER SYMBOLS: clear sky; sky ¼ clouded; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; thunder; thunderstorm.
SEA DISTURBANCE: Rough. High.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY:
Land Reports.
0 Dense fog. Objects not visible at 55 yards.
1 Rather thick fog " " 220 "
2 Very bad " " 550 "
3 Bad " " 1,100 "
4 Very poor " " 2 miles.
5 Poor " " 4 "
6 Moderate " " 10 "
7 Good " " 20 "
8 Very good " " 30 "
9 Excellent. " " Beyond 30 "
MKO.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION... Friday 29th December ... 1922. No. 363.

Observations at 0100 G.M.T. 29th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	981·0	-1	WSW	2	obr	39	85	7	2500	Nb	3	ASt	9	•
Stornoway ...	982·1	-2	NW	1	b	•	•	6	•	•	•	•	•	•
Wick	978·4	-4	SSW	4	bcpr	39	92	8	2500	CuNb	6	-	6	•
Castlebay	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	980·7	-3	SSE	2	crSW	36	97	8	-	-	0	ASt	8	•
Renfrew	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Edinburgh (Inchkeith)	984·4	-3	SSW	3	0	37	85	9	-	-	0	ASt	10	•
Leuchars	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	987·2	-5	SW	1	oYY	37	97	6	4000	Nb	10	-	10	•
Blacksod Point ...														•
Donaghadee	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	982·6	-5	S'W	4	od	45	97	8	1500	St	10	-	10	•
Liverpool (Bidston) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Shotwick) ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	986·0	-6	SE	6	oYY	40	97	6	4000	Nb	10	-	10	•
Nottingham	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	985·5	-12	SE	4	oYY	40	97	6	1500	Nb	10	-	10	•
Gorleston	991·2	-5	S	6	oYr	42	92	8	2500	Nb	10	-	10	•
Valencia (Cahirciveen)	1007·4	+1	SW	3	0	49	92	7	-	St	10	-	10	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	986·7	+3	W'S	6	o/r	49	75	8	2500	Nb	3	ASt	10	•
Ross-on-Wye	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Andover	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew Obsy.) ...	•	•	•	•	•	44	•	•	•	•	•	•	•	•
Croydon	987·2	-11	S'W	3	o/r	43	97	7	800	Nb	10	-	10	•
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Grain	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	987·0	-14	S'W	5	o/r	45	97	7	800	St	10	-	10	•
Scilly (St. Mary's) ...	992·3	+2	W	5	0	52	97	7	4000	StCu	10	-	10	•
Falmouth (Pendennis)	991·3	+2	WNW	3	o/r	50	75	7	4000	CuNb	10	-	10	•
Plymouth (Cattewater)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	988·1	-2	W	7	o/r	45	75	6	450	St	10	-	10	•
Southampton (Calshot)	988·1	-2	W	4	o/r	49	97	8	4000	StCu	7	aSt	9	•
Dungeness	987·3	-11	SSW	7	oYY	47	97	6	1500	St	10	-	10	•
Jersey 7h }	992·1	0	WSW	6	o/r	51	97	5	5700	Nb	4	ASt	9	•
Guernsey 1h }														

Observations at 0700 G.M.T. 29th

Stations.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	976·8	-5	SW	4	cbr	40	85	7	2500	CuNb	8	-	8	3
Stornoway ...	977·3	-1	-	0	b	30	85	7	-	-	0	-	0	1
Wick	977·8	0	SW	3	c	35	97	8	5700	Cu	7	-	7	3
Castlebay	977·0	-2	SE	3	bc	42	85	6	2500	St	4	-	4	3
Nairn	978·1	•	-	0	bc+	31	85	8	1500	Cu	6	-	6	•
Aberdeen	979·6	-2	SW	2	bc	36	85	6	-	-	0	ASt	4	0
Malin Head	976·8	-4	SW	5	o/r	42	97	8	5700	Nb	9	-	9	5
Renfrew	980·3	-4	-	0	o/s	34	97	4	1500	St	10	-	10	•
Edinburgh (Inchkeith)	979·8	-3	SE	1	od	36	92	8	-	Nb	10	-	10	1
Leuchars	979·6	-3	-	0	ors	33	97	6	1500	Nb	10	-	10	•
Eskdalemuir	979·7	-4	-	0	od	33	97	6	800	Nb	10	-	10	•
Tynemouth	981·7	-4	SSW	1	o/r	37	97	6	4000	Nb	10	-	10	1
Blacksod Point ...	981·1	-1	WSW	4	bc-	38	92	8	-	-	0	ASt	6	2
Donaghadee	982·2	•	SE	1	bc/r	38	97	7	4000	StCu	4	-	4	•
Birr Castle	983·0	+1	SW	4	0	47	92	8	2500	StCu	10	-	10	•
Holyhead	982·5	0	W'S	3	bc+	45	85	8	2500	Cu	3	ASt	5	3
Liverpool (Bidston) ...	983·0	+1	SSW	2	c	46	85	6	2500	StCu	8	-	8	•
Chester (Shotwick) ...														
Spurn Head	982·3	-4	SW'W	4	oY	41	97	6	4000	Nb	10	-	10	5
Nottingham	983·4	•	SW	3	0	44	92	4	1500	StCu	10	-	10	•
Cranwell	983·3	0	WSW	3	o/r	42	97	6	1500	St	10	-	10	•
Gorleston	981·6	-4	W	3	0	43	97	7	4000	Nb	10	-	10	4
Valencia (Cahirciveen)	983·2	-4	SSW	3	0	46	92	8	2500	St	9	-	9	•
Roches Point	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke (St. Ann's H.)	986·8	-1	W	5	c+	49	85	7	1500	St	7	-	7	6
Ross-on-Wye	986·4	+1	WSW	3	c	46	75	8	4000	Cu	7	ASt	8	•
Benson...	986·2	+1	WSW	4	0	45	92	8	-	StCu	10	-	10	•
Andover	988·0	0	SW	3	c	43	97	7	1500	St	6	Ci	7	•
S. Farnborough ...	988·2	+1	WSW	3	o+	44	92	7	1500	StCu	1	ACu	3	•
London (Kew Obsy.) ...	986·4	+2	SW	2	0	46	85	6	2500	StCu	9	-	9	•
Croydon	987·5	+2	SW'W	4	c	46	85	7	4000	StCu	4	ACu	7	•
Clacton-on-Sea ...	985·7	+1	SW	3	c	45	92	7	2500	Nb	5	ASt	8	2
Shoeburyness	986·9	+1	W	4	0	46	85	7	4000	StCu	10	-	10	•
Grain	987·4	+2	SW	4	o-	46	85	7	4000	StCu	9	-	9	0
Lympne	988·5	+1	W'S	4	0	45	85	6	800	St	10	-	10	•
Scilly (St. Mary's) ...	990·4	-1	WSW	4	b-	50	92	7	4000	StCu	3	-	3	6
Falmouth (Pendennis)	990·3	-2	W	4	b+	48	92	7	4000	Cu	3	-	3	4
Plymouth (Cattewater)	989·9	-1	WSW	4	0	50	85	6	2500	StCu	10	-	10	0
Portland Bill	988·8	-2	W'S	7	0	48	75	7	2500	St	10	-	10	6
Southampton (Calshot)	988·8	+1	W'S	4	b-	47	85	8	4000	StCu	1	ASt	2	0
Dungeness	988·0	+2	WSW	4	o/r	47	92	7	2500	St	4	ASt	10	6
Jersey 7h }	992·5	-1	WNW	4	o/r	51	92	7	4000	StCu	9	-	9	4
Guernsey 1h }														

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28th Dec. 1922

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 27th °F.	Temperature. Max. Day. 28th °F.	Rainfall.† Night 17h.-9h. 27-28th mm.	Rainfall.† Day 9h.-17h. 28th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 28th hr.
Banff								3·3
Montrose	-	-	27	40	-	2		
Llandudno	cbbc	bco	34	43	3	-		3·7
Colwyn Bay ...	bc	bc	37	43	4	-		4·3
Rhyl...	pcbc	bcc	36	43	2	0·1		4·2
Southport	bcb	bcco	36	42	6	-		4·8
Blackpool	ph	co	38	43	3	-		3·2
Harrogate	cb	bo	31	38	2	-		3·3
Skegness	bcb	bbc	32	40	1	-		4·7
Aberystwyth ...	roc	o	40	44	3	-		1·3
Bath	copbc	bccor	35	43	1	0·1		2·1
Leamington Spa ...	bc	cbo	38	41	4	-		4·4
Lowestoft	bccb	bbc	34	42	2	-		4·3
Felixstowe	bcm	bc	35	42	1	-		4·4
Southend	bc	bcco	34	45	0·2	-		5·0
Ilkley	oshpc	c	33	39	3	0·4		0·4

Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 27th °F.	Temperature. Max. Day. 28th °F	Rainfall.† Night 17h.-9h. 27-28th mm.	Rainfall.† Day 9h.-17h. 28th mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 28th hr.
Paignton	bc	bccor	35	46	3	5		0·5
Ilfracombe	bcco	or	41	46	1	5		0·7
Bude	dr	rr	42	46	3	0·3		0·3
Penzance	or	or	38	49	7	13		0·0
Falmouth Observatory	oor	r	38	45	4	10		0·1
Torquay	bc	r	36	46	2	2		0·4
Weymouth	c	cor	38	47	2	2		0·8
Bournemouth ...	bc	bc	34	47	5	1		2·9
Portsmouth (S'thsea)	bbc	cou	37	47	-	-		3·4
Worthing	bc	bco	35	45	-	-		3·6
Brighton	cbb	bco	38	45	0·1	-		3·6
Eastbourne	bcc	corc	39	45	0·1	1		2·6
Hastings	bbcc	bcco	36	45	1	-		4·3
Folkestone	mb	bbc	34	46	-	-		4·4
Tunbridge Wells ...	b	bbc	33	45	trace	-		5·0
Ramsgate	cb	bbcc	35	44	3	-		4·3
Margate	cbcb	bbc	36	44	0·3	-		4·2
Deal	obc	bcc	35	43	4	-		3·6

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22318 Saturday, 30th December 1922.

Observations at 1800 G.M.T. 29th.

Stations	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)	State of ground
Lerwick	977.0	0	SSW	3	bc-	41	85	7	4000	Cu.Nb	5	·	5	·
Stornoway	974.7	-3	-	0	bc+	31	97	7	4000	Cu	4	-	4	·
Wick	976.7	-1	NW	1	bcrs	36	92	8	4000	Cu	2	Ci	5	·
Castlebay	973.3	-3	NW	2	bc/r°	44	85	7	1500	Cu.Nb	4	A.St	6	·
Nairn	·	·	·	·	·	·	·	·	·	·	·	·	·	·
Aberdeen	977.4	-2	-	0	ttc	34	85	3	4000	St.Cu	7	·	7	3
Malin Head	975.5	-2	S	4	bc-	43	97	8	4000	Cu	2	Ci.Cu	5	·
Renfrew	977.7	-3	NNE	1	o	36	97	4	5700	St.Cu	10	·	10	2
Edinburgh (Inchkeith)	977.9	-2	SSW	1	mo-	37	97	5	*	St	10	·	10	·
Leuchars	977.4	-2	-	0	od₀	35	97	6	1500	St	10	·	10	1
Eskdalemuir	978.5	-2	S	2	mo-	36	97	4	450	St	10	·	10	2
Tynemouth	980.5	-1	W	1	ito	43	92	3	2500	St	10	·	10	·
Blacksod Point														·
Donaghadee	979.4	-2	WSW	1	c	41	92	6	-	·	0	A.St	7	·
Birr Castle	977.8	·	SE	1	orr	42	97	6	1500	Nb	10	·	10	·
Holyhead	979.7	-5	SSW	4	o	47	92	7	2500	St	5	A.St	10	2
Liverpool (Bidston)	980.7	-2	SW'S	2	o+	46	85	7	1500	St	9	-	9	·
Chester (Shotwick)	981.3	-2	SW	4	o	47	75	8	2500	St.Cu	5	A.St	10	1
Spurn Head	981.9	-1	SW	5	b	45	85	6	4000	St.Cu	2	·	2	·
Nottingham	982.6	·	SW	3	bc	47	85	·	2500	St.Cu	1	Ci	·	·
Cranwell	983.2	-2	SW'S	4	b+	47	85	6	-	-	0	Ci.St	3	1
Gorleston	985.3	0	SW'W	3	bc-	47	75	7	-	-	0	Ci.St	6	·
Valencia (Cahirciveen)	975.8	-9	S	4	c+	46	85	8	1500	St.Cu	7	A.Cu	8	2
Roches Point														·
Pembroke (St. Ann's H.)	983.2	-3	SW'S	6	cp	47	85	8	1500	Nb	8	·	8	·
Ross-on-Wye	984.3	-4	SW	4	oPR+	48	85	7	2500	Nb	10	·	10	1
Benson	986.0	-4	SW	4	c+	48	85	7	*	Cu	4	Ci	7	2
Andover	987.2	-2	SW	5	o	48	85	8	800	St	9	·	9	1
S. Farnborough	987.9	-2	SW	4	o	48	85	6	1500	St.Cu	7	Ci	9	2
London (Kew Obsy.)	986.5	-3	SW	3	o	50	75	6	4000	St.Cu	8	A.Cu	9	2
Croydon	987.5	-2	SW	3	o+	48	85	6	1500	St.Cu	9	Ci.St	10	2
Clacton-on-Sea	·	·	·	·	·	·	·	·	·	·	·	·	·	·
Shoeburyness	986.9	-2	SW	4	bc-	49	75	7	-	·	0	Ci	4	·
Grain	987.9	0	SW	4	c	49	75	7	4000	Cu	1	Ci	8	2
Lympne	988.7	-1	WSW	4	o	48	85	6	1500	St	7	Ci.St	9	2
Scilly (St. Mary's)	985.2	-5	SW'W	6	oPR	49	85	7	2500	Nb	10	·	10	·
Falmouth (Pendennis)	986.2	-3	W	6	o+	51	85	6	4000	St	10	·	10	·
Plymouth (Cattewater)	986.7	-4	SW	5	or	50	85	6	800	St	10	·	10	2
Portland Bill	987.6	-3	WSW	6	o/	49	75	6	450	St	10	·	10	·
Southampton (Calshot)	987.5	-3	WSW	4	o+	50	85	7	-	-	0	A.St	10	2
Dungeness	988.8	+1	WSW	4	bc+	49	97	7	2500	Cu	4	·	4	·
Jersey	990.7	-1	SW	4	o/r	50	92	7	4000	St.Cu	10	-	10	·

Observations at 1800 G.M.T. 29th.

Stations	Barom. at M.S.L. (m.b)	Change in 3 Hours‡	Wind Direc.	Wind Force (0-12)	Weather	Temp. (°F.)	Humidity (%)	Visibility§ (0-9)	Height of Low Cloud (Feet)	Cloud Low Form.	Cloud Low Amt. (0-10)	Cloud Upper Form.	Cloud Total Amt. (0-10)	Sea (0-9)
Lerwick	977.2	0	S	1	c	39	85	7	4000	Cu	7	-	7	0
Stornoway	972.7	-2	-	0	o+	34	92	6	450	St.	10	-	10	0
Wick	975.1	-1	SSW	2	bc	38	92	8	4000	Cu	1	Ci	4	0
Castlebay	971.1	-1	-	0	bc/r	41	85	6	1500	St.Cu	4	-	4	2
Nairn	974.8	·	-	0	bc/r	32	92	8	4000	Cu	3	A.Cu	6	·
Aberdeen	975.6	-1	-	0	b	34	92	6	5700	St.Cu	1	-	1	0
Malin Head	970.6	-7	SE	1	o	41	92	8	5700	St.Cu	7	A.St	10	5
Renfrew	974.9	-3	-	0	ffo	35	97	3	7200	St.Cu	10	-	10	·
Edinburgh (Inchkeith)	975.1	-3	E	1	mo-	39	92	6	*	St.Cu	10	-	10	1
Leuchars	975.6	-2	-	0	o	35	97	6	1500	St.	10	-	10	·
Eskdalemuir	975.6	-4	-	0	fo+	35	97	1	<150	St.	10	-	10	·
Tynemouth	977.7	-3	S	1	imo	42	92	4	4000	St.	7	A.St	10	1
Blacksod Point														
Donaghadee	974.3	-5	SE	1	or₀r₀	41	97	7	800	St.	10	-	10	
Birr Castle	970.1	·	SE	1	or	41	97	6	1500	Nb	10	-	10	·
Holyhead	973.6	-7	S'W	4	o/r	46	85	7	2500	St.	4	A.St	10	3
Liverpool (Bidston)	975.1	-6	SSE	3	o/r	43	92	6	2500	St.Cu	4	A.St.	10	3
Chester (Shotwick)	976.6	-4	S	2	o/r	45	85	7	1500	St.Cu	10	-	10	*
Spurn Head	980.0	-1	SSE	4	od₀	42	97	6	4000	Nb	10	-	10	4
Nottingham	979.0	·	SW	3	o+	45	92	6	2500	St.Cu	10	-	10	·
Cranwell	980.4	-4	S	3	o	43	97	6	2500	St.Cu	10	-	10	*
Gorleston	984.3	-1	SSW	3	b	42	92	7	-	-	0	Ci	2	1
Valencia (Cahirciveen)	970.0	-5	SW	4	o/r	40	92	6	1500	St.	10	-	10	6
Roches Point														
Pembroke (St. Ann's H.)	975.8	-5	SSW	5	o	48	85	8	1500	St.	10	-	10	6
Ross-on-Wye	978.5	-6	S	3	o	47	85	6	2500	Nb	10	-	10	·
Benson	982.7	-3	SSW	3	o+	46	92	7	*	St.	10	-	10	·
Andover	981.3	-5	S	5	or	46	97	6	800	Nb	10	-	10	·
S. Farnborough	982.3	-5	SSW	5	od₀	47	97	6	1500	Cu	7	A.St.	10	·
London (Kew Obsy.)	983.0	-5	SW	4	o	47	85	6	2500	St.Cu	1	A.St	10	·
Croydon	984.1	-4	SSW	4	o/r	46	92	6	1500	St.	9	A.St.	10	·
Clacton-on-Sea	984.3	-3	S	4	o+	44	97	6	7200	St.Cu	10	-	10	2
Shoeburyness	984.3	-3	SW	4	od₀	46	85	7	2500	St.	10	-	10	·
Grain	984.3	-4	S	5	o	47	92	7	1500	St.	8	A.St	10	6
Lympne	985.4	-4	SW'S	6	o	46	97	6	225	St.	10	-	10	·
Scilly (St. Mary's)	975.7	-7	SW	3	or₀r₀	46	92	7	2500	Nb	10	-	10	7
Falmouth (Pendennis)	976.4	-4	W	1	oR	47	97	5	4000	Nb	10	-	10	3
Plymouth (Cattewater)	976.7	-14	SW	6	or	50	92	7	800	Nb	10	-	10	4
Portland Bill	980.7	-12	SW	6	opr₀	49	92	6	450	St.	10	-	10	6
Southampton (Calshot)	983.0	-5	SW'S	6	orr	48	97	7	800	St.	10	-	10	3
Dungeness	985.7	-3	SW	4	o+	48	97	6	2500	St.	10	-	10	4
Jersey	986.6	-3	S	4	o/r	50	85	7	4000	St.Cu	10	-	10	4

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
	24 Hours ended 0900 G.M.T. 30th								Yesterday.		To-day.
Kew	cp₀bcoz	om	oroqb	·	·	36	o2	3	1.7	·	·
Croydon (24 hours ended 0700)	b'om	or₀r₀m	or₀rmq	·	·	35	tr	5	1.9	·	·
Greenwich (Royal Obsy.)	bo	oir	orbbc	50	39	32	-	4	24	81	77
City (Bunhill Row)	·	·	·	·	·	·	·	·	0.0	·	·
Westminster (St. James' Pk.)	·	·	·	51	41	35	3		2.1	80	76
Regent's Pk. (Botanic Gdns).	·	·	·	·	·	·	·	·	1.5	·	·
Camden Square	bc	op	·	50	39	35	-	4	·	·	77
Kensington Palace	bco	o	·	51	40	33	o2	4	·	86(18h)	74
Hampstead Observatory	·	·	·	48	38	30	tr	4	24	·	78

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1000 G.M.T. 29th.

South Kensington

Max.	Time.	Min.	Time.
-	-	-	-

Kew Observatory

Max.	Time.	Min.	Time.
0.7	18h. 28th	<0.3	0-6h. 29th
0.5	9h. 29th		

Pole Star Record at Greenwich Obsy.

Exposure from 29th 16 h 45 m to 30th 07 h 00 m.

Stars.	Exposure h. m.	Record h. m.	Record %
Polaris	14.15	3.55	27
δ Ursae Minoris	14.15	3.43	26

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 today in 1300 & 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).

Radio Disturbances (Atmospherics) at Croydon.[1]

Time.	Type.	No. per 4 sec.	Stren.	Direc.
13h.	-	-	-	-
19h.	-	-	-	-
01h.	-	-	-	-
07h.	-	-	-	-

Table showing the Greenwich Times of Sunrise, Noon, and Sunset for Stations in the United Kingdom.

30th & 31st December, 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6 / 8.6	11.56 / 11.56	3.46 / 3.46
Greenwich	8.8 / 8.8	12.3 / 12.3	3.58 / 3.58
Wick	9.5 / 9.5	12.15 / 12.15	3.24 / 3.25
Valencia	8.51 / 8.51	12.44 / 12.44	4.37 / 4.37

Beaufort Notation of Weather.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, „ 200—1000 m.
F thick fog „ less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus :—
R = heavy rain.
rr = continuous moderate rain.
r₀r₀ = continuous light rain.

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.

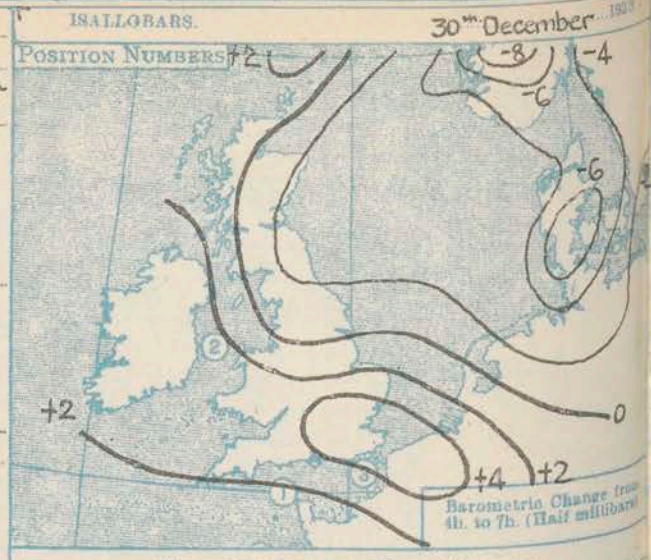
Sea Disturbance.
0 = no swell, 1 = mod. swell, 2 = heavy swell — Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell — Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

[1] For explanation see Introduction. * Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

STATIONS.	WEATHER. 7h.-13h. 29th.	13h.-18h. 29th.	18h. 29th. to 1h. 30th.	1h.-7h. 30th.	TEMPERATURE. MAX. Day. 7h.-18h.	MIN. Night. 18h.-7h.	MIN. on GRASS	RAINFALL† Day. 7h.-18h. mm.	Night. 18h.-7h. mm.	Precipitation began.	Precipitation began.	SUN. 29th. Hours.
Lerwick	cphr	cthr	c	cp	43	37	•	5	Trace	0900	06·30	1·1
Stornoway	b-bc	p	b:bc	b	34	29	•	1	0·1	-	-	0·0
Wick	b-bc	b.bc	o	o	40	34	•	-	-	-	-	•
Castlebay	bcrc	copbc	bcoW	ocpo	43	40	•	2	0·5	-	-	1·1
Nairn	bc	stqbc	bcspc	xcom	33	28	•	0·1	0·2	1530	22·00	2·8
Aberdeen	bmcH	cfbx	bmxc	orq	36	30	20	-	4	-	04.30	0·0
Malin Head	iRbc	o	or	bc	44	38	•	1	1	L0800	<21·00	2·1
Renfrew	omdm	omff	omda	omr	37	35	31	0·2	2	L0800	<21·00	0·0
Edinburgh (Inchkeith)	idm	ff	ri d	RR	40	38	30	0·1	11	-	24·00	0·0
Leuchars	orsd	oam	omrorR	ri a	36	33	28	0·1	8	L0800	22·00	0·0
Eskdalemuir	omfc	oofc	oir	or	38	34	34	Trace	5	L0800	<21·00	0·0
Tynemouth	oif	oif	orrmrr	orrm	44	35	33	-	22	-	<21·00	•
Blacksod Point ...							•					•
Donaghadee	c	bc	oW	coir	43	34	•	1	1	1630	01.30	•
Birr Castle ...	bcrR	oir	oir	oir	42	34	31	3	3	1100	<21·00	•
Holyhead	ocbccomorir		iR	oorr	47	39	38	2	13	1330	<21·00	0·4
Liverpool (Bidston) ...	bcc	od	orr		44	37	33	Trace	13	1530	<21·00	2·8
Chester (Shotwick) ...	cocbo	odor	orrrrm	o	48	34	28	0·2	5	1430	<21·00	•
Spurn Head	c	c	oqr	o	45	39	•	Trace	5	L0800	<21·00	0·5
Nottingham	c	c	or	b	47	38	35	-	3	-	<21·00	0·3
Cranwell	obm	c	irrm	ocbcr	47	37	35	-	4	-	<21·00	2·1
Gorleston	oc	cbc	orrq	bcqpr	48	41	36	-	2	-	22·00	0·0
Valencia (Cahirciveen)	orc	cqrp	ohr	opc	47	38	35	9	8	L0800	<21·00	1·2
Roches Point							•					•
Pembroke (St. Ann's H.)	cqpr	oq	oqr	cqpr	50	39	•	5	3	1100	22·00	0·0
Ross-on-Wye	cbcp	op.o	RRqp	bcobcq	49	38	35	1	11	1230	<21·00	0·8
Benson...	c	bc	oro	rcbcb	50	37	35	Trace	3	-	22·00	•
Andover	ocbcc	oor	orrr	ocprq	49	37	34	0·6	4	1430	<21·00	1·8
S. Farnborough ...	oo	oomr	odrr	orrocb	50	38	34	0·1	5	1330	<21·00	1·7
London (Kew Obsy.) ...	cpbcoz	om	oro	oorqb	50	40	36	0·2	3	0900	22·00	1·7
Croydon	bom	ororm	orrmq	obq	50	40	35	Trace	5	1100	<21·00	1·9
Clacton-on-Sea ...	cqom	com	ompd	omcbc	47	40	38	-	2	-	22·00	2·0
Shoeburyness	obc	bccoid	oirorqc	bcqb	50	40	37	0·1	3	1730	<21·00	3·2
Grain	obcoc	oo	oorro	ocbcb	50	40	34	-	3	-	<21·00	2·0
Lympne	ocbcc omor	omm	or	ocbc	48	38	35	Trace	3	0900	22·00	0·8
Scilly (St. Mary's) ..	cqqP	omr	ocqop	cqqP	52	43	•	9	5	L0800	<21·00	0·0
Falmouth (Pendennis)	cmom	otlor	opcqp	corq	51	41	•	9	7	1330	<21·00	0·0
Plymouth (Cattewater)	or	ltrp	orrl.	orrrh	51	38	34	5	5	L0800	<21·00	0·4
Portland Bill	oo	oqp	qqr	ocoqr	51	42	•	1	4	1330	<21·00	•
Southampton (Calshot)	bcc	or	orq	orqoc	50	41	38	0·1	3	1730	<21·00	0·9
Dungeness	c	oo	qpt	cqhr2	50	42	•	Trace	2	1330	24·00	•
Jersey	orro	o	ri d	oqrrb	52	41	•	1	5	0900	22·00	0·0



Observations from Cross Channel Steamers.

Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.	Pressure
3	30th 3h	Arundel	WSW	9	R	45	48	7

GENERAL INFERENCE.

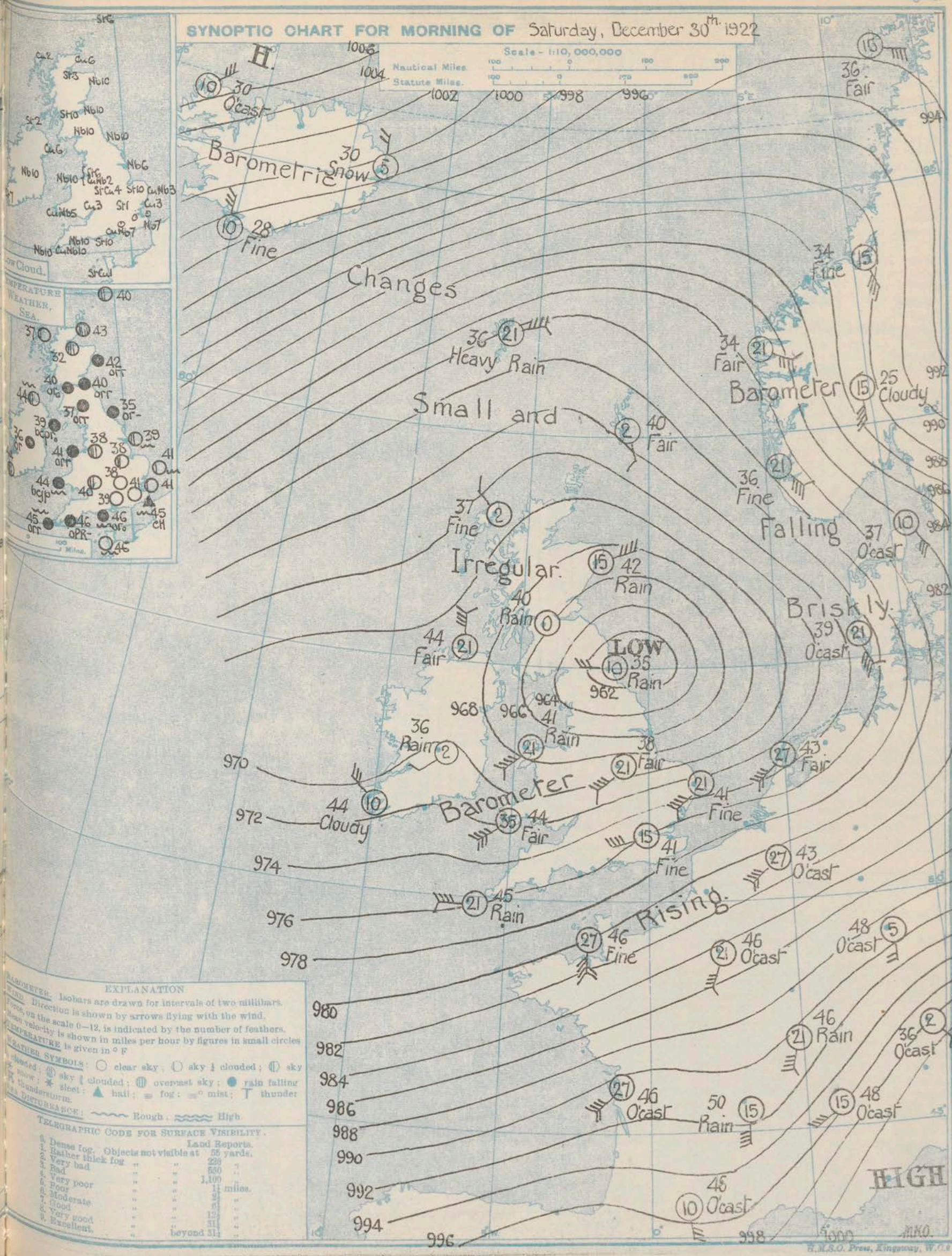
A very deep depression is moving east across the North Sea and a second minimum now over N.W. Ireland will probably move S.E. Over the northern half of the Kingdom cold N. to N.E. winds will occur, with occasional rain or snow. In the South, strong rather cold southwesterly winds will change later, after some rain or heavy showers, to colder winds from a more northerly point.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday, 30th December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind southwesterly, veering N.W. later, fresh or strong, squally, a gale at times in exposed places; varying amount of cloud, rain or showers at times, hail showers in places; visibility mainly good; colder.	Cold and unsettled. ----------
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Winds between N.E. and N.W., fresh or strong at times; variable cloud, occasional rain, sleet or snow; visibility mainly good; cold.	South Cone hoisted 0215 GMT 30th December. South Cone still flying. ----
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Winds between N. and N.E., moderate or fresh; variable cloud, occasional rain, sleet or snow; visibility mainly good; cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 to 10.	

NAR.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.45 GMT. G. C. SIMPSON, F.R.S., Director.

§ For Code see opposite page.


SYNOPTIC CHART FOR MORNING OF Saturday, December 30th 1922
Scale - 1:10,000,000
Nautical Miles
Statute Miles
Low Cloud.
Temperature Weather, Sea.
Barometric Changes
Small and Irregular Barometer
Falling Briskly
Rising
HIGH
LOW
EXPLANATION
Barometer: Isobars are drawn for intervals of two millibars.
Wind: Direction is shown by arrows flying with the wind.
Force, on the scale 0—12, is indicated by the number of feathers.
Mean velocity is shown in miles per hour by figures in small circles
Temperature is given in ° F
Weather Symbols: clear sky; sky ½ clouded; sky clouded; snow; sky ¾ clouded; overcast sky; rain falling; sleet; hail; fog; mist; thunder; thunderstorm.
Sea Disturbance: Rough; High.
Telegraphic Code for Surface Visibility.
Land Reports.
0. Dense fog. Objects not visible at 55 yards.
1. Rather thick fog " " 220 "
2. Very bad " " 550 "
3. Bad " " 1,100 "
4. Very poor " " 1¼ miles.
5. Poor " " 2 "
6. Moderate " " 3 "
7. Good " " 12 "
8. Very good " " 31 "
9. Excellent. " beyond 31 "
H.M.S.O. Press, Kingsway, W.C.2

(15) Saturday, December 30th 1922

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

 BRITISH SECTION. Saturday, 30th December 1922. No. 364.

Observations at 0100 G.M.T. 30th

Stations	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)	Low Cloud Form.	Low Cloud Amt. (0-10)	Upper Form.	Total Amt. (0-10)	Sea. (0-9)
Lerwick	976.2	-1	ESE	1	bc-	38	92	7	4000	CuNb	3	CiCu	6	*
Stornoway	971.9	-3	-	0	b-	*	*	6	*	*	*	*	*	*
Wick	972.6	-2	SSE	2	ot	41	85	8	5700	StCu	9	-	9	*
Castlebay	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	966.4	+4	W'S	6	o/r	43	92	8	4000	Cu	9	-	9	*
Renfrew	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Edinburgh (Inchkeith)	968.5	-8	NE	4	or₀r₀	40	97	7	-	St	10	-	10	*
Leuchars	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	968.8	-6	S	2	or₀r₀	43	97	5	4000	Nb	10	-	10	*
Blacksod Point														*
Donaghadee	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	965.1	-8	SSW	4	o/r	43	85	8	2500	StCu	9	ASt	10	*
Liverpool (Bidston)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Shotwick)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	984.7	-10?	SE'E	7	oRR	40	97	6	4000	Nb	10	-	10	*
Nottingham	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	966.5	-14	SW	3	orr	44	97	6	1500	Nb	10	-	10	*
Gorleston	972.5	-9	S'E	6	orr	44	92	6	2500	Nb	10	-	10	*
Valencia (Cahirciveen)	968.1	+1	SW	9	cR	42	97	7	-	-	0	ASt	8	*
Roches Point	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke (St. Ann's H.)	970.3	+1	W	6	or	41	85	7	1500	Nb	10	-	10	*
Ross-on-Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Andover	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew Obsy.)	*	*	*	*	*	48	*	*	*	*	*	*	*	*
Croydon	971.8	-8	SW'S	6	o/r	46	92	7	800	Nb	10	-	10	*
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Grain	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	973.1	-12	SW	7	o/r	45	92	7	800	St	10	-	10	*
Scilly (St. Mary's)	975.8	+1	W	8	bc-	44	75	8	4000	CuNb	5	-	5	*
Falmouth (Pendennis)	975.3	+1	W	7	cPR-	47	97	7	4000	CuNb	8	-	8	*
Plymouth (Cattewater)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	973.0	-3	WSW	8	oR	46	85	6	450	St	10	-	10	*
Southampton (Calshot)	973.8	-3	W'S	7	or	45	92	7	450	Nb	10	-	10	*
Dungeness	974.2	0	SSW	7	opr₀	50	97	7	1500	St	10	-	10	*
Jersey -7h / Guernsey 1h	978.4	+1	WSW	6	or	43	92	7	4000	Nb	4	ACu	10	*

Observations at 0700 G.M.T. 30th

Stations	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)	Low Cloud Form.	Low Cloud Amt. (0-10)	Upper Form.	Total Amt. (0-10)	Sea. (0-9)
Lerwick	975.4	+3	SSE	1	bc	40	92	7	4000	St	6	-	6	0
Stornoway	970.4	+1	NW	1	b	37	85	6	4000	Cu	2	-	2	1
Wick	971.4	0	E	2	o	43	85	8	4000	Cu	6	ACu	9	0
Castlebay	970.0	0	NNE	3	c	41	85	9	2500	StCu	8	-	8	5
Nairn	969.7	*	-	0	c/s	32	85	7	1500	St	8	-	8	*
Aberdeen	967.3	-3	ENE	4	orr	42	97	6	2500	Nb	10	-	10	0
Malin Head	968.7	+3	N	5	bc	44	92	8	2500	St	2	CiCu	5	6
Renfrew	967.2	-2	-	0	or₀	40	92	6	2500	St	10	-	10	3
Edinburgh (Inchkeith)	964.7	-3	NE	4	oR	40	97	8	-	Nb	10	-	10	*
Leuchars	965.5	-2	NE	2	oRR	39	97	7	800	Nb	10	-	10	*
Eskdalemuir	964.8	-2	-	0	orr	37	92	6	1500	Nb	10	-	10	2
Tynemouth	961.6	*	N	3	or-	35	97	6	2500	Nb	10	-	10	
Blacksod Point	966.9	+1	SW	1	bcr₀	39	85	6	2500	Cu	6	-	6	1
Donaghadee	970.1		SW	1	or	36	?	6	1500	Nb	10	-	10	*
Birr Castle	967.3	+3	SW	5	orr	41	92	7	2500	Nb	10	-	10	3
Holyhead	967.0	0	WSW	3	c/r	38	85	7	2500	St	8	-	8	3
Liverpool (Bidston)	967.6	+1	SW	4	o-	40	85	8	2500	St	9	-	9	*
Chester (Shotwick)														
Spurn Head	965.2	+1	SW'S	7	bc	39	85	7	4000	Nb	6	-	6	6
Nottingham	968.8	*	WSW	5	bc+	38	85	7	1500	StCu	4	-	4	*
Cranwell	966.4	+4	SW	5	o/r	37	97	7	2500	St	10	-	10	*
Gorleston	972.4	0	SW	5	b-	41	75	7	4000	CuNb	3	-	3	6
Valencia (Cahirciveen)	971.8	+3	NW	3	c-	44	85	7	1500	St	7	-	7	*
Roches Point														
Pembroke (St. Ann's H.)	970.8	+2	SW'W	7	bcjb	44	75	8	1500	CuNb	5	-	5	6
Ross-on-Wye	972.3	+2	WSW	5	bc-	40	85	8	4000	Cu	3	ASt	5	*
Benson	974.9	+5	SW	5	b	38	85	8	-	St	1	-	1	*
Andover	975.7	+3	SW'S	5	c+	38	92	7	1500	CuNb	7	-	7	*
S. Farnborough	975.7	+3	SSW	5	b+	39	85	7	-	-	0	-	0	*
London (Kew Obsy.)	976.2	+5	WSW	4	b/r	41	75	8	-	-	0	-	0	*
Croydon	976.2	+4	SW	4	b	40	97	7	-	-	0	-	0	4
Clacton-on-Sea	974.8	+3	WSW	5	b-	41	85	7	2500	Cu	3	-	3	*
Shoeburyness	975.8	+5	W'S	6	b-	41	75	7	-	-	0	-	0	3
Grain	976.7	+6	SW	6	b	41	75	8	4000	CuNb	1	-	1	*
Lympne	977.9	+5	SW	5	b	40	85	7	1500	CuNb	9	-	3	7
Scilly (St. Mary's)	975.7	0	W	5	orr	45	85	7	2500	Nb	10	-	10	3
Falmouth (Pendennis)	976.3	+2	W	6	oPR-	46	92	6	4000	CuNb	10	-	10	1
Plymouth (Cattewater)	976.3	+2	W	5	oHvh	40	85	6	800	Nb	10	-	10	7
Portland Bill	975.6	+4	WSW	8	or₀	46	85	7	450	St	10	-	10	6
Southampton (Calshot)	977.4	+4	WSW	6	or	43	92	8	2500	CuNb	7	ASt	10	7
Dungeness	977.1	+3	WSW	8	cH(R)	45	85	8	4000	Nb	7	-	7	6
Jersey -7h / Guernsey 1h	982.1	+1	S	6	b/r	46	75	7	4000	StCu	1	-	1	

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29th Dec. 1922

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. Night 28th (°F.)	Temperature Max. Day 29th (°F.)	Rainfall† Night 17h.-9h. 28-29th (mm.)	Rainfall† Day 9h.-17h. 29th (mm.)	Sunshine (hr.)	Sunshine Sunrise to Sunset 29th (hr.)
Banff								
Montrose	-	-	33	36	0.1	-		0.0
Llandudno	co	or	36	48	trace	1		0.4
Colwyn Bay	bc	bcr	40	48	-	1		1.6
Rhyl	bcc	c	43	49	-	-		1.3
Southport	bcbbc	coro	38	47	1	1		2.3
Blackpool	co	or	38	47	1	2		1.4
Harrogate	cop	cop	34	45	3	0.2		0.1
Skegness	ocb	bbcb	36	47	1	-		1.7
Aberystwyth	roc	o	40	48	5	-		0.2
Bath	cbcbo	co	41	50	3	-		1.2
Leamington Spa	c	cbo	36	49	1	-		1.8
Lowestoft	o	ocbcco	37	48	1	-		0.8
Felixstowe	o	bm	40	48	1	-		1.5
Southend	bc	bo	39	49	1	-		2.2
Ilkley	oroc	dpm	35	46	3	0.3		0.0

Stations	Weather Forenoon	Weather Afternoon	Temperature Min. Night 28th (°F)	Temperature Max. Day 29th (°F)	Rainfall† Night 17h.-9h. 28-29th (mm.)	Rainfall† Day 9h.-17h. 29th (mm)	Sunshine (hr.)	Sunshine Sunrise to Sunset 29th (hr.)
Paignton	opw	bcororpq	43	?	4	4		0.7
Ilfracombe	or	or	40	50	4	5		0.0
Bude	bcco	oor	47	52	2	4		0.4
Penzance	opc	cpor	42	52	6	5		0.6
Falmouth Observatory	c	orr	44	52	8	13		0.4
Torquay	bc	coro	44	51	6	1		0.4
Weymouth	cpc	od	44	52	6	0.2		0.0
Bournemouth	bc	bc	36	50	7	-		0.4
Portsmouth (S'thsea)	bc	co	43	51	4	-		0.9
Worthing	bcc	o	43	50	1	-		1.2
Brighton	oc	bc	43	49	5	-		0.8
Eastbourne	co	o	43	51	6	-		1.2
Hastings	bccoc	co	42	51	6	-		1.6
Folkestone	bc	bc	41	49	-	-		1.7
Tunbridge Wells	obc	oop	40	50	4	trace		1.4
Ramsgate	bcbbc	bbcc	39	50	2	-		1.7
Margate	cbc	co	36	50	1	-		1.2
Deal	cbc	clc	40	48	8	1		1.5

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. § For code see page 3. ‡ See footnote page 1.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.22,219 SUNDAY, 31st DECEMBER 1922.

Observations at 1300 G.M.T. 30th

Stations	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	Upper Form.	Total Amt. 0-10	State of ground
Lerwick	946·9	•	E	3	oPH	41	85	4	4000	Nb	8	A St	10	•
Stornoway	942·9	+3	NW	1	o+	36	94	6	800	St	9	·	9	•
Wick	942·4	+1	E	5	or,r,	43	92	4	2500	Cu Nb	10	·	10	•
Castlebay	942·9	+1	NW	3	bc	42	85	4	2500	Cu	4	A St	6	•
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	965·1	+1	NE	3	or-	42	92	4	1500	Nb	10	·	10	2
Malin Head	941·8	+4	NW	3	c+	44	92	8	4000	Cu Nb	8	-	8	•
Renfrew	940·4	+4	N	3	or	42	85	4	4200	St	4	A St	10	2
Edinburgh (Inchkeith)	966·9	+3	NNE	2	od	41	92	4	•	Nb	10	·	10	•
Leuchars	964·8	+3	N	2	or	40	92	8	2500	Nb	10	·	10	2
Eskdalemuir	968·4	+4	N	3	o	38	92	4	1500	St Cu	4	A St	10	2
Tynemouth	964·5	+3	W	3	or,r,	39	92	6	4000	Nb	10	-	10	•
Blacksod Point	9													•
Donaghadee	945·5	+4	NW	2	bc-	43	85	8	5400	Cu	2	Ci Cu	5	•
Birr Castle	944·9	•	W	1	c-	40	92	4	4000	St Cu	8	·	8	•
Holyhead	942·1	+5	NW'W	5	or	45	85	8	1500	St Cu	10	-	10	2
Liverpool (Bidston)	941·1	+3	WSW	4	opr	40	94	6	1500	Nb	9	-	9	•
Chester (Shotwick)	941·6	+5	W'S	4	o	[illegible]	85	8	1500	St	9	-	9	2
Spurn Head	968·5	+3	SW'W	6	cjp	43	92	4	4000	Cu Nb	8	·	8	•
Nottingham	941·9	•	WSW	4	[illegible]	43	85	4	500	St Cu	4	·	4	•
Cranwell	941·9	+3	SW	5	o	42	85	8	1500	Nb	10	·	10	1
Gorleston	944·5	+2	SW	6	c+	45	45	4	4000	Cu	4	·	4	•
Valencia (Cahirciveen)	943·2	+6	N'E	3	c+	43	55	8	2500	St Cu	4	A Cu	4	
Roches Point														•
Pembroke (St. Ann's H.)	944·5	+2	WNW	3	c	45	85	8	2000	St Cu	4	-	4	•
Ross-on-Wye	944·8	+3	SW	4	o+	42	85	6	2500	Nb	4	A St	9	2
Benson	946·6	+2	WSW	6	jp	43	85	8	•	Cu	4	-	4	2
Andover	944·1	+2	SW	5	c	44	94	8	800	Nb	4	-	4	2
S. Farnborough	944·4	+3	SW	6	c+	43	85	4	1500	Nb	4	A St	8	2
London (Kew Obsy.)	977·6	+1	SW	5	o/r	46	85	6	2500	Nb	4	A St	9	2
Croydon	978·0	+2	SW	4	orr	44	85	6	800	Nb	4	A St	10	2
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	944·8	+1	SW	4	bc/r	45	45	8	1500	St Cu	2	A Cu	4	•
Grain	948·9	+2	SW	6	cPR+	45	85	8	2500	Cu Nb	6	A Cu	8	2
Lympne	949·4	-1	WSW	6	c-	44	45	4	800	St	3	Ci St	4	2
Scilly (St. Mary's)	945·4	0	WNW	2	oR	44	94	6	2500	Nb	10	-	10	•
Falmouth (Pendennis)	946·3	-1	W	1	ofr	44	92	4	2500	Nb	10	-	10	•
Plymouth (Cattewater)	944·1	-1	WSW	4	oR-	44	92	4	800	Nb	10	·	10	2
Portland Bill	946·6	+3	WSW	8	orr	46	65	6	450	Nb	10	-	10	•
Southampton (Calshot)	948·3	+1	W	5	orr	43	94	6	800	Nb	10	·	10	2
Dungeness	949·6	+2	SW	8	bcR	46	85	8	2500	Cu	3	Ci St	5	•
Jersey	981·4	-1	S	6	b	51	45	4	-	-	0	A Cu	1	•

Observations at 1800 G.M.T. 30th

Stations	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	Upper Form.	Total Amt. 0-10	Sea 0-9
Lerwick	944·5	+1	ENE	4	o/roo	41	45	4	2500	St Cu	5	A St	10	3
Stornoway	946·4	+4	NW	2	orH	40	92	6	800	St	10	-	10	1
Wick	945·2	+4	NNE	5	c+	44	45	8	5400	Cu	8	-	8	6
Castlebay	946·4	+4	NNW	3	b	42	85	4	2500	Cu	2	A St	3	3
Nairn	944·3	•	N	2	c/r	39	92	8	4000	Cu Nb	8	-	8	•
Aberdeen	943·0	+6	N	4	or	40	92	6	1500	Nb	10	·	10	4
Malin Head	[illegible]	+3	NW	3	bc-	45	[illegible]	9	4000	Cu	6	-	6	5
Renfrew	945·1	+6	-	0	o	38	94	6	4200	St Cu	4	A St	10	•
Edinburgh (Inchkeith)	943·4	+8	W	2	o/r	41	85	8	·	·	0	A St	10	2
Leuchars	942·9	+5	N	2	o-	41	85	8	4000	St Cu	6	A St	9	•
Eskdalemuir	944·0	+6	N	1	o	38	85	6	2500	St Cu	9	A St	10	•
Tynemouth	942·2	+5	W	3	c/r	40	92	6	4000	Nb	8	-	8	4
Blacksod Point														
Donaghadee	946·1	+3	WNW	1	bc	40	92	5	-	-	0	A Cu	4	1
Birr Castle	948·5	•	W	1	bc-	36	94	4	4000	Cu Nb	4	-	4	•
Holyhead	945·9	+5	NNW	5	o+	45	45	8	2500	St Cu	4	A St	10	4
Liverpool (Bidston)	945·6	+4	W'S	2	o/r	41	94	6	1500	St Cu	10	-	10	3
Chester (Shotwick)	945·4	+5	WSW	2	o/r	41	92	4	1500	St Cu	10	-	10	•
Spurn Head	945·5	+5	SW	5	o	42	92	4	4000	St Cu	10	-	10	5
Nottingham	943·6	•	WSW	2	o	40	92	4	2500	St Cu	4	A Cu	9	•
Cranwell	945·6	+4	SW'S	4	o	39	92	6	-	-	0	-	0	4
Gorleston	948·2	+1	SW	3	bc-	44	45	4	-	-	0	A Cu	5	6
Valencia (Cahirciveen)	982·3	+4	NNW	4	c+	44	45	4	2500	St	4	-	4	4
Roches Point														
Pembroke (St. Ann's H.)	944·5	+3	NNW	3	c	42	85	8	4000	St Cu	8	-	8	6
Ross-on-Wye	946·6	+2	SSW	2	c	41	85	4	2500	St	4	A St	10	•
Benson	948·3	+2	SSW	3	orr	41	94	6	2500	Nb	10	-	10	•
Andover	944·9	+1	SSE	2	or	41	94	4	800	Nb	10	-	10	[illegible]
S. Farnborough	948·6	+1	SW	2	orr	42	92	4	1500	Nb	8	A Cu	10	•
London (Kew Obsy.)	949·3	+1	SW	4	oR-	44	85	6	2500	Nb	10	-	10	•
Croydon	949·2	+2	SW'S	3	o/r	42	92	4	1500	Cu Nb	9	-	9	•
Clacton-on-Sea	948·5	+1	SW	4	bc[illegible]	43	92	4	2500	Cu	3	Ci St	5	4
Shoeburyness	949·0	+1	SW	3	o/r	44	45	8	4000	Cu	9	-	9	•
Grain	949·4	0	SSW	5	o	45	85	8	4000	St Cu	4	Ci St	9	3
Lympne	980·1	0	SW	6	o	44	85	4	800	St	3	Ci St	10	•
Scilly (St. Mary's)	944·0	+3	N'W	6	c	44	85	8	4000	Cu Nb	8	-	8	4
Falmouth (Pendennis)	945·8	+2	N	2	or,r,	43	94	4	2500	Nb	6	-	10	1
Plymouth (Cattewater)	945·0	-2	-	0	or-	43	94	4	1500	St	10	-	10	3
Portland Bill	945·3	+2	S	4	oR-	45	85	6	450	St	10	-	10	8
Southampton (Calshot)	944·8	-1	SW'S	5	o/r	45	92	4	1500	Nb	4	A St	9	6
Dungeness	980·1	-1	SW	6	bc+	44	85	8	-	-	0	Ci Cu	5	4
Jersey	948·1	-2	SE	5	o/r	45	85	6	1500	Nb	10	-	10	6

LONDON OBSERVATIONS — Weather, Temperature, Rainfall: 24 Hours ended 0900 G.M.T. 31st Dec. Sunshine and Humidity 15h.: Yesterday. Humidity 9h.: To-day.

London Observations	Weather Morning	Weather Afternoon	Weather Night	Temp. Max. °F.	Temp. Min. °F.	Min. on Grass °F.	Rainfall mm. Day	Rainfall mm. Night	Sunshine to Sunset hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %
Kew	oropq	cpor	oromor	•	•	32	5	5	1.4	•	•
Croydon (24 hours ended 0700)	bcprr	o ppr R	oroRor	•	•	37	3	6	0.8	•	•
Greenwich (Royal Obsy.)	opc	cpord	ord	46	40	35	3	8	1.4	78	94
City (Bunhill Row)	•	•	•	•	•	•	•	•	0.9	•	•
Westminster (St. James' Pk.)	•	•	•	48	41	37	15		1.1	77	93
Regent's Pk. (Botanic Gdns).	•	•	•	•	•	•	•	•		•	•
Camden Square	or	ro	•	47	40	38	3	8	•	•	95
Kensington Palace	or	or	or	41	40	37	5	4	•	89 (18h)	99
Hampstead Observatory	•	•	•						1.5	•	

ATMOSPHERIC POLLUTION. Milligrams of Solid Impurity per cubic metre.

24 Hr. ended 1600 G.M.T. ....

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.

POLE STAR RECORD at Greenwich Obsy.

Exposure from 30th - h. - m. to 31st - h. - m.

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

CODE FOR STATE OF GROUND.
0 = Dry ground.
1 = Wet ground.
2 = Soft (muddy) wet ground.
3 = Bare ground frozen (but less than 2ins. deep.
4 = Bare ground frozen (but more than 2ins. deep.
5 = Dew (or wet grass but not wet ground).
6 = Skating today in 1300 & 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).

RADIO DISTURBANCES (Atmospherics) AT CROYDON.

Time.	Type.	No. per sec.	Stren.	Direc.
13h.	-	-	-	-
18h.	-	-	-	-
01h.				
07h.				

TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON, AND SUNSET FOR STATIONS IN THE UNITED KINGDOM. 31st Dec. & 1st Jan., 1922.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.56	3.46
	8.6	11.54	3.48
Greenwich	8.8	12.3	3.58
	8.8	12.4	4.0
Wick	9.5	12.15	3.25
	9.5	12.16	3.24
Valencia	8.51	12.44	4.34
	8.51	12.45	4.38

BEAUFORT NOTATION OF WEATHER.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three-quarters covered).
d drizzle. h hail. KQ line squall.
l lightning. o overcast sky.
m mist, visibility 1000—10000 m.
f fog, " 200—1000 m.
F thick fog " less than 200 m.
jp precipitation within sight of station.
p passing showers r rain.
s snow. rs sleet. t thunder.
v unusual visibility. 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 intense, suffix o indicates slight and repetition of letters continuity, thus:—
R = heavy rain.
rr = continuous moderate rain.
r_or_o = continuous light rain.

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.

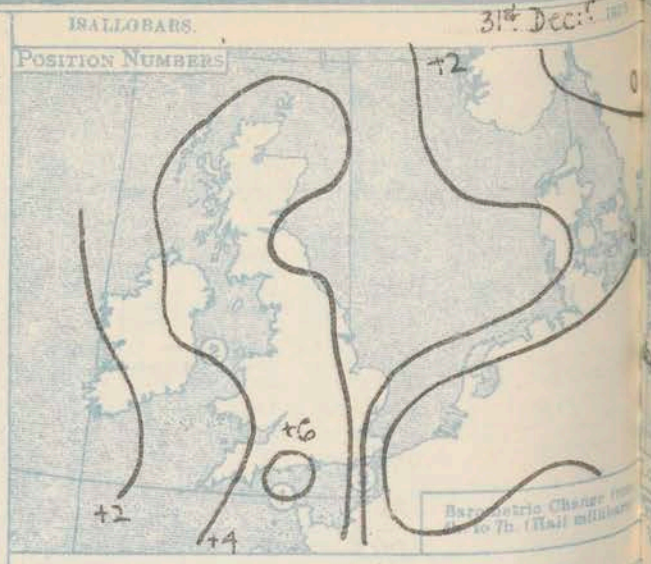
SEA DISTURBANCE.
0 = no swell, 1 = mod. swell, 2 = heavy swell: Calm or slight sea.
3 = no swell, 4 = mod. swell, 5 = heavy swell: Moderate sea.
6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

For explanation see Introduction. • Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3.

SUMMARIES FOR THE PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 30th	13h.–18h. 30th	18h. 30th to 1h. 31st	1h.–7h. 31st	Temperature. Max. Day. 7h.–18h.	Min. Night. 18h.–7h.	Min. on Grass	Rainfall† Day. 7h.–18h. mm.	Night. 18h.–7h. mm.	Precipitation began.	Precipitation began.	Sun. 30th Hours.
Lerwick	cprh	oq	cps	bc	42	34	•	3	Trace	<08·00	<21·00	0·0
Stornoway	c	c	c	cph	40	34	•	0·6	2	-	-	0·0
Wick	or r.	oo	op bc	b bc	44	36	•	0·1	Trace	09·00	<21·00	•
Castlebay	o.c.	cb		-			•	-		-		
Nairn	ogR	Rg.c	ircg	cq	40	36	•	5	2	12·30	<21·00	0·0
Aberdeen	irqm	og ir	ocm	pr bc	42	34	32	4	0·2	<08·00	01·30	0·0
Malin Head	bc.c.o.	p.c.or	cp	cir	46	38		0·2	2	15·30	<21·00	1·1
Renfrew	omr.oo	or.mo	orn	o	42	29	22	1	–	<08·00	–	0·0
Edinburgh (Inchkeith)	id	id		co	42	38	32	5	Trace	09·00	–	0·0
Leuchars	oir	oo	coo	o	41	34	25	5	Trace	<08·00	–	0·0
Eskdalemuir	ord.o	oo	ocoob	bcx	38	31	25	2	–	<08·00	–	0·0
Tynemouth	om.cr.o	ir.m	com	com	40	36	22	8	–	<08·00	–	•
Blackrod Point ...												•
Donaghadee	bc	bc	c	corr	45	33	•	0·4	2	<08·00	04·30	•
Birr Castle ...	oirc.o	e.o.bc	bcx	bcx	42	31	23	0·3	–	<08·00	–	•
Holyhead	orrir	oo.c.o	coo	cocm	45	43	41	1	–	<08·00	–	0·0
Liverpool (Bidston) ...	c.op	r.d	od		43	38	31	1	1	11·00	22·00	0·0
Chester (Shotwick) ...	oo.	orr.rm	orrcm	od.d.	43	38	32	3	2	13·30	<21·00	•
Spurn Head	ogbcq	oo	c	opr	43	38	•	-	Trace	-	02·30	1·9
Nottingham	cp	c	co	or	44	35	30	0·1	1	09·00	02·30	1·2
Cranwell	bcp	b.bc	orn	or	45	36	33	Trace	2	11·00	01·30	3·3
Gorleston	bc.cq	ogr.c.o	c	corr	46	39	36	0·4	2	14·30	<21·00	2·5
Valencia (Cahirciveen)	cp	bc.op.c	qb	obpo	47	42	38	1	2	<08·00	<21·00	1·9
Roches Point												
Pembroke (St. Ann's H.)	c	oo	c	c	46	40	•	0·1	–	<08·00	–	0·1
Ross-on-Wye	pgr.bcq	o.c.o	oom	ogdo	43	38	35	3	0·4	<08·00	04·30	0·1
Benson...	c	c.or	yor	oir	47	36	36	0·6	7	16·30	<21·00	•
Andover	c.opr.c	c.or	oir	orrr	45	36	35	3	9	<08·00	<21·00	1·5
S. Farnborough ...	bcd.ov.	p	orr	orr	45	37	34	5	12	<08·00	<21·00	1·5
London (Kew Obsy.) ...	oipq	cp.or	oromoro	oorr	46	40	32	3	5	09·00	22·00	1·4
Croydon	b.oprr	omp.pr R	oro	orRor	45	40	34	3	6	09·00	<21·00	0·8
Clacton-on-Sea ...	bc	bc.c	cbd	coq	45	41	39	-	0·2	-	<21·00	2·0
Shoeburyness ...	abcirbc	bcc.oiro	oiro	oiro	46	36	31	1	1	<08·00	<21·00	1·3
Grain	bbc.opq	opq.c.o	coir	coo	46	41	34	3	0·6	11·00	24·00	1·2
Lympne	b.bc.pr	c.o.	cebccr	orrm	47	41	40	1	5	<08·00	24·00	2·0
Scilly (St. Mary's) ..	omrR	o.cpq	c	bcphq	48	44?	•	10	1	<08·00	<21·00	0·0
Falmouth (Pendennis)	ckpc.o	crr	orcbc	bcpbc	47	41	•	10	5	<08·00	<21·00	0·8
Plymouth (Cattewater)	orR	or.r						12		<08·00		
Portland Bill	ogr	ogr	oq	oqbc	48	38	•	13	5	<08·00	<21·00	•
Southampton (Calshot)	ollrh.q	cpr.prhr	copr	r.d	46	38	38	14	7	<08·00	<21·00	0·4
Dungeness . .	qcRb	c	qpr	pr	48	43	•	2	2	<08·00	01·30	•
Jersey	b.bc.b	b.op.o	r.d.	opob	51	43	•	1	4	14·30	22·00	•



Observations from Cross Channel Steamers.

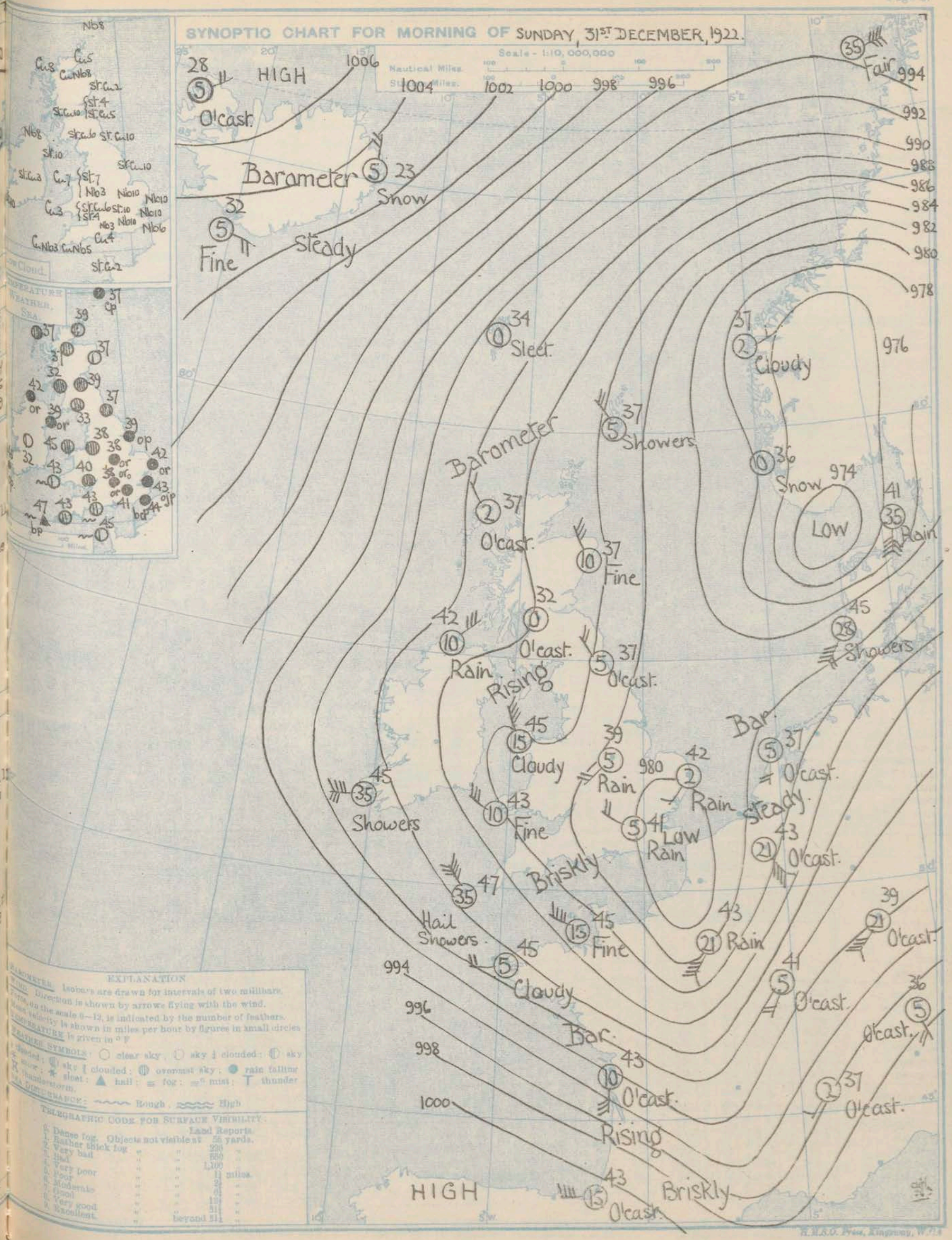
Position.	Date and Time.	Steamship.	Wind. Direc.	Wind. Force.	Weather.	Temp. Air.	Temp. Sea.
2	30th. 10h.	Cambria	WNW	5	op	40	49
1	30th. 12h.	Ibex	WSW	4	o+	49	50
3	31st. 3h.	Brighton	SSW	4	ojp	45	44

GENERAL INFERENCE.

In the rear of the secondary depression now over the Thames Estuary winds will become generally northwesterly or northerly and weather mainly fair but with some showers of rain, hail or sleet. Temperature will be rather low for a day or two.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Sunday, 31st December, 1922.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind NW. moderate or fresh; mainly fair but showers of rain, hail or sleet in places; visibility good apart from morning mist; rather cold, ground frost locally at night.	Fairer generally with rather low temperature. --------- South Cone still flying d[illegible] districts 1, 2 and 5. ---------
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Northerly winds light or moderate; mainly fair but some hail or sleet showers; visibility good apart from morning mist; rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate NW. or N wind; mainly fair but showers of rain or hail in places; visibility mainly good; cold; frost inland at night.	

† For Code see opposite page.



EXPLANATION

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Direction is shown by arrows flying with the wind. Force, on the scale 0—12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in °F.
WEATHER SYMBOLS: ○ clear sky, ◐ sky ½ clouded; ◐ sky ½ clouded; ◍ sky ¾ clouded; ● overcast sky; ● rain falling; R snow; ✱ sleet; ▲ hail; ≡ fog; ≡° mist; T thunderstorm.
SEA DISCHARGE: ~~~ Rough, ≈≈≈ High

TELEGRAPHIC CODE FOR SURFACE VISIBILITY:

		Land Reports
0. Dense fog.	Objects not visible at	55 yards.
1. Rather thick fog	" "	220 "
2. Very bad	" "	550 "
3. Bad	" "	1,100 "
4. Very poor	" "	1¼ miles.
5. Poor	" "	2½ "
6. Moderate	" "	6½ "
7. Good	" "	12½ "
8. Very good	" "	31½ "
9. Excellent.	" beyond	31½ "

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION...SUNDAY, 31st DECEMBER.....1922. No. 365.

Observations at 0100 G.M.T... 31st

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	980.1	+2	N	3	bc	41	75	7	-	-	0	ACu	4	.
Stornoway	982.7	-2	-	0	0	.	.	6	.	.	.	.	.	.
Wick	980.1	+1	N	3	bc	41	85	8	4000	Cu	2	ASt	4	.
Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Aberdeen	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Malin Head	979.9	+2	NNW	4	c/r	43	97	8	7200	CuNb	2	ACu	8	.
Renfrew	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Edinburgh (Inchkeith)	979.8	+4	N	2	b-	39	85	8	-	St	2	-	2	.
Leuchars	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eskdalemuir	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tynemouth	979.2	+4	W	1	c+	39	97	6	4000	StCu	7	-	7	.
Blacksod Point ...														.
Donaghadee	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Birr Castle	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Holyhead	979.2	+2	NW'N	4	c-	45	85	8	2500	Cu	4	ASt	7	.
Liverpool (Bidston) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chester (Shotwick) ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Spurn Head	978.6	+2	SW	2	o⦶	39	97	6	2500	St	6	ASt	10	.
Nottingham	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cranwell	979.4	+4	WNW	2	o	37	92	6	2500	St	10	-	10	.
Gorleston	980.1	0	-	0	bc	40	97	6	4000	CuNb	6	-	6	.
Valencia (Cahirciveen)	984.4	+4?	NW	6	crs.	46	97	7	-	-	0	ASt	7	.
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	982.0	+3	NN	4	bc	44	75	8	2500	Cu	6	-	6	.
Ross-on-Wye	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Benson...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Andover	.	.	.	.	.	.	.	.	.	.	.	.	.	.
S. Farnborough ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
London (Kew Obsy.)...	.	.	.	.	.	41	.	.	.	.	.	.	.	.
Croydon	978.1	-1	W	1	o/r	43	92	7	1500	StCu	10	-	10	.
Clacton-on-Sea ...	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Shoeburyness	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Grain	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lympne	979.4	-1	SSW	5	or.r	44	92	7	800	Nb	10	-	10	.
Scilly (St. Mary's) ...	983.7	+3	NW	6	bc	46	75	8	2500	CuNb	6	-	6	.
Falmouth (Pendennis)	982.1	+5	NNW	4	bc/r	44	85	8	4000	Cu	5	-	5	.
Plymouth (Cattewater)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland Bill	977.7	+3	NNW	6	o/r	44	85	7	1500	StCu	10	-	10	.
Southampton (Calshot)	977.9	+1	W'S	1	oPR	42	97	8	1500	StCu	10	-	10	.
Dungeness	979.1	-1	SW	7	o.r.	46	92	8	2500	Nb	10	-	10	.
Jersey 7h }	977.8	+3	NNW	7	or	43	92	6	5700	Nb	4	ASt	10	.
Guernsey 1h }														

Observations at 0700 G.M.T... 31st

STATIONS.	Barom. at M.S.L. m.b	Change in 3 Hours.‡	Wind. Direc.	Wind. Force 0-12	Weather.	Temp. °F.	Humidity. %	Visibility.§ 0-9	Height of Low Cloud. Feet	Cloud. Low. Form.	Cloud. Low. Amt. 0-10	Cloud. Upper Form.	Cloud. Total Amt. 0-10	Sea. 0-9
Lerwick	983.8	+3	NNW	2	c.pr.	37	75	7	4000	Nb	8	-	8	1
Stornoway	986.7	+5	NNW	1	c	37	92	6	4000	Cu	8	-	8	1
Wick	984.5	+5	NNW	3	bc	39	85	8	4000	Cu	5	-	5	4
Castlebay	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nairn	985.1	.	-	0	c/r	37	92	8	4000	CuNb	8	-	8	.
Aberdeen	984.2	+5	NNW	3	b	37	92	7	4000	StCu	2	-	2	1
Malin Head	986.2	+4	NE	3	or	42	97	7	5700	Nb	8	ACu	9	4
Renfrew	986.0	+5	-	0	0	32	85	7	4000	StCu	10	-	10	.
Edinburgh (Inchkeith)	984.4	+6	NNW	2	o+	39	85	9	-	StCu	9	-	9	2
Leuchars	984.7	+2	-	0	0	39	85	7	-	-	0	ASt	10	.
Eskdalemuir	985.0	+4	N	1	bc	33	85	6	7200	StCu	6	-	6	.
Tynemouth	983.1	+4	NNW	2	0	37	85	8	4000	StCu	10	-	10	2
Blacksod Point ...	985.9	+5	-	0	o.r	39	97	7	1500	St	10	-	10	0
Donaghadee	986.2	.	-	0	b-	32	97	6	4000	StCu	3	-	3	.
Birr Castle	983.6	+4	N'W	4	c+	45	85	9	2500	Cu	7	-	7	4
Holyhead	984.1	+5	NNW	7	o/r	38	97	6	1500	St	10	-	10	2
Liverpool (Bidston) ...	983.7	+5	WSW	1	od.d.	39	97	7	1500	St	10	-	10	.
Chester (Shotwick) ...														
Spurn Head	981.2	+3	NW'W	5	obr.	39	92	7	4000	StCu	10	-	10	5
Nottingham	982.8	.	SW	2	o.r	39	97	5	1500	Nb	10	-	10	.
Cranwell	982.7	+4	SW'W	3	o.r	37	97	6	800	Nb	10	-	10	.
Gorleston	981.7	0	SSW	1	o.-	42	97	6	4000	Nb	10	-	10	4
Valencia (Cahirciveen)	983.1	+1	W	7	obr.	45	85	6	2500	St	10	-	10	.
Roches Point	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pembroke (St. Ann's H.)	985.6	+3	NW	3	b	43	85	8	2500	Cu	3	-	3	6
Ross-on-Wye	983.4	+4	W'N	1	c	40	85	9	2500	StCu	10	-	10	.
Benson...	982.0	+4	NW	2	o.r.	38	97	5	-	St	10	-	10	.
Andover	982.5	+5	W	3	c	39	97	8	800	Nb	5	ACu	10	.
S. Farnborough ...	982.1	+5	W'N	3	o.r	36	97	6	1500	Nb	10	-	10	.
London (Kew Obsy.)...	980.9	+4	WNW	2	o.r	41	97	7	1500	Nb	10	-	10	.
Croydon	980.4	+3	WNW	2	od.d	40	97	4	800	Nb	10	-	10	2
Clacton-on-Sea ...	979.7	0	SSE	3	o/b	43	97	7	1500	Nb	10	-	9	.
Shoeburyness	980.0	0	-	0	o/r	41	85	7	2500	StCu	9	-	10	0
Grain	980.6	+1	-	0	o	41	97	8	2500	StCu	10	-	10	.
Lympne	979.7	+1	WSW	2	o.r.r	41	97	1	4150	Nb	10	-		
Scilly (St. Mary's) ...	985.5	+3	NW	7	bPH	47	75	8	4000	CuNb	3	-	3	7
Falmouth (Pendennis)	986.6	+4	NNW	3	bc/r	43	85	7	4000	CuNb	5	-	5	1
Plymouth (Cattewater)	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Portland Bill	983.2	+8	NW	6	bc	43	85	7	2500	Cu	4	-	4	7
Southampton (Calshot)	982.5	+5	NW	4	o/r	40	97	7	1500	St	10	-	10	0
Dungeness	979.9	-1	S	3	bcPR	44	97	8	2500	Nb	6	-	6	4
Jersey 7h }	985.5	+3	WNW	4	b/r	45	75	7	4000	StCu	2	-	2	6
Guernsey 1h }														

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

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 29½-30½ °F.	Temperature. Max. Day. 30½ °F.	Rainfall.† Night 17h.-9h. 29½-30½ mm.	Rainfall.† Day 9h.-17h. 30½ mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 30½ hr.
Banff								
Montrose	*	*	31	42	7	4		0.0
Llandudno	r.sp	op.o	36	45	56	2		0.0
Colwyn Bay ...	cpr	cpd	39	43	11	1		0.0
Rhyl...	or	ro	34	42	12	4		0.0
Southport	or.o	o.c.o	34	44	16	1		0.4
Blackpool	or	c.or	34	44	14	1		0.5
Harrogate	op	o	34	43	13	.		0.0
Skegness	b.o	o.c.b	34	43	9	.		3.1
Aberystwyth ...	r.o.c	o	39	45	6	.		0.0
Bath	bc.c.or	r.or	38	45	15	1		0.4
Leamington Spa ...	o.c.b	c.b	36	43	4	-		1.5
Lowestoft	b bc	c bc b	40	46	2	-		3.2
Felixstowe	bc	bc.c	40	45	3	.		4.0
Southend	bc.c	or	39	45	2	1		1.2
ILKLEY.	Rm.r.	ir.mo	35	43	14	1		0.0

STATIONS.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. Night. 29½-30½ °F.	Temperature. Max. Day. 30½ °F	Rainfall.† Night 17h.-9h. 29½-30½ mm.	Rainfall.† Day 9h.-17h. 30½ mm.	Sunshine. hr.	Sunshine. Sunrise to Sunset. 30½ hr.
Paignton	cplr	c.orm	40	46	14	13		0.0
Ilfracombe	or	or	40	46	10	4		0.0
Bude	cG.o	oqrr	39	44	10	4		0.0
Penzance	or.c.o	orm	41	45	16	12		0.1
Falmouth Observatory	or.o	ord	40	45	14	6		0.1
Torquay	p	r	40	50	15	11		0.0
Weymouth	r	r	42	44	5	11		0.5
Bournemouth ...	*	*	40	46	5	4		0.2
Portsmouth (S'thsea)	ortth	iRh	41	44	3	12		0.5
Worthing	ro	o.bc	40	49	5	2		0.9
Brighton	or.c	c.o.bc	41	49	6	-		3.0
Eastbourne	ortros	bc	41	49	3	2		1.3
Hastings	ot.P.c	cbccb	39	48	4	2		0.1
Folkestone								3.1
Tunbridge Wells ...	orhtl	or.o	39	46	7	4		1.1
Ramsgate	b.bc	bc.c	39	51	2	1		2.9
Margate	bc.c	or.c.o	40	48	2	1		
Deal	rq	bc.c	40	49	3	1		

* Information for these columns not usually received. † Trace = rain has fallen, but amount less than 0·1 mm. ‡ For code see page 3. § See footnote page 1.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, December 1922.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st	Malin Hd	13hr Temp 49°
	Chester	13- - 48°
	Leuchars	18hr Cloud Nb 10
	Lympne	18- Wind SW'W
	Kew	7hr Temp 46°
	Blackpool	Rain 17h-9h nil
	Skegness	Min 42° Sun 0.0 hrs
	Bath	- 41°
	Eastbourne	- 45° max 48°
	Margate	- 43°
	Plymouth	Past Weather 18-1h b.bcp 1-7h b.bcp
	Holyhead	- - 13-18h orro / crp
	Lympne	- - 18-1h ombc
2nd	Calshot	13hr Hum: 71%
	"	1- Temp 45°
	Malin Hd	7- Vis: 7
	Tynemouth	Max 49°
	Birr Castle	- 48°
	Gorleston	Sun: 1.1 hrs
	Pembroke	Max 49°
	Lympne	Past Weather 1-7h om
	Scilly	Min 47°
3rd	Jersey	Sun: 0.6 hrs.
	Malin Head	13hr Vis: 7
	Spurn Head	- Temp 45°
	Andover	18hr Hum 97%
	S. Farnboro'	- Bar 1024.6 mb
	Holyhead	7hr - 1027.6 -
	Calshot	- Hum: 92%
	Leamington Spa	0/0/36/48/-/-/ 0.0/
	Weymouth	Sun 0.3 hrs
	Spurn Hd	Max 46°
	Castlebay	Rainfall 7-18hr 1mm.
	Croydon	Max 48°
4th	Plymouth	- 50 Min 45 Grass 45°
		Rain: nil nil Sun 0.0 hrs
	Benson	13hr Temp 47°
	Pendennis	- Wind NNE
	Aberdeen	18hr - SW'W
	Benson	- Bar 1030.3 mb Wind N Temp 45°
	Lympne	- Tendency +2
	"	1hr Wind force 2
	Andover	7- Bar 1031.3 mb
	Clacton-on-Sea	- - 1030.0 -
5th	Eskdalemuir	Max 44°
	Wick	18hr Bar 1019.3 mb
	Calshot	- Wind NW'N
	Holyhead	7hr Bar 1031.2 mb
	Lympne	Min 43°
6th	Nottingham	13hr Temp 50°
	Wick	18- Wind force 10
	Holyhead	- Bar 1023.5 mb
	Calshot	" Tendency -1
	Kensington Palace	Max 53°
	Castlebay	7hr Wind force 5
	Donaghadee	- Temp 44°
	Holyhead	- Sea 6
	Margate	Max 51°
	Holyhead	Rain 18-7h nil
7th	Plymouth	Past Weather 18-1h Rc.bc 1-7h b
	"	13hr Hum 75%
	Gorleston	18- Bar: 1020.8 mb.
	Cranwell	7- Cloud Sc.c.s ast 7
	Croydon	7- Wind SW'W
	Hastings	Sunshine 3.5 hrs
	Cranwell	Grass Min 29°
	Valencia	Min 43°
8th	Lympne	Past Weather 18-1h bm.
	Aberdeen	13hr Bar change -3
	Renfrew	- Bar 1021.1 mb
	Calshot	- Temp 47°
	Greenwich	Grass Min 32°
	Castlebay	18hr Cloud St 7 -7
	Croydon	- Wind W'N
		Radio 1hr C_1C_2/ 6/-/15
	Castlebay	7hr Temp 47°
	Skegness	Sunshine 0.0 hrs
	Cranwell	Past Weather 18-1h od.m
	Lympne	- - 13-18h b.bc.c.om
	Calshot	Max 47°
9th	Ramsgate	Min 36° Max 45°
	Malin Head	13hr Temp 49°
	Birr Castle	" - 51°
	Benson	- Cloud St 10 - 10
	Calshot	- Temp 45°
	Birr Castle	18hr - 49
	Holyhead	- Bar 1021.0 mb
	Shoeburyness	" Vis: 8

Report for	STATION.	CORRECTION.
9th	Croydon	7hr Radio C_1/5/7/105°
	Paignton	Rain 9-17h 0.5mm. Sun 0.3 hrs
	Bude	Sun 0.7 hrs
	Nairn	Past Weather 7-13hr c.bcm. 13-18hr bcm
	Andover	- - 7-13 ood.od.
	Lympne	Rain 18-7hr 0.1mm
10th	Scilly	- 7-18 0.2 -
	Birr Castle	13hr Wind W
	Andover	18- Vis 5
	Kensington Palace	Min 32°
	Holyhead	1hr Weather orro
	Leuchars	7- Bar 1029.1 mb.
	Spurn Head	7- Wind WNW
	S. Farnboro'	" - force 2
	Ilfracombe	b.bc/bc.c.of/40°/48/-/-/1.4/
	Liverpool	Max 47°
	Scilly	Min 42°
	Plymouth	Max 46° Min 32° grass 29° Rain nil Sun 5.7hr
11th	Calshot	Max 43°
	Chester	13hr Bar 1030.7 mb.
	Jersey	13- See additions
	Castlebay	7hr Wind S
	Benson	" Bar 1031.2 mb
	Shoeburyness	" " 1032.1 "
	Skegness	Min 30°
	Brighton	" 30°
	Wick	Max 42°
	Nairn	- 38°
		Past Weather 18-1h cm
12th	Benson	Max 42°
	Tynemouth	13hr Temp 41°
	Valencia	" Wind SW'W
	Calshot	" Bar 1030.8 mb -1
	Castlebay	18hr Wind SE
	Donaghadee	" " SSW
	Croydon	" Bar change -1
	Kensington Pal:	Max 44°
	Greenwich	Pole Star { Polaris 14h 15m 18.5m 8%
		{ β Ursae Minoris } 14h 15m 08.5m 6%
	Renfrew	7hr Temp 49°
	S. Farnboro'	- " 43°
	Ilfracombe	Max 46°
	Renfrew	Past Weather 18-1hr oim.og
	Grain	Min 38 Grass min 32°
13th	Aberdeen	18hr Wind S'W
	Kensington Palace	Max 51°
	Croydon	Radio 7hr c/3/-/100/
	Greenwich	Pole Star Record { 0.54m 6%
		{ 0.49m 1%
	Gorleston	7hr Humidi: 92%
	Paignton	Min 43°
	Eskdalemuir	Rain 7-18h 2mm 18-7h 6mm
	Cranwell	Past Weather 18-1hr m
	Lympne	- - 1-7- omfdod.
14th	Birr Castle	18hr Bar 1008.7 mb
	Lerwick	7- Wind W
	Paignton	Rain 9-17h 0.3mm.
	Eastbourne	Sun 0.4 hrs
	Castlebay	- 0.1 -
	Malin Hd	Max 50
	Holyhead	Past Weather 7-13h o.d.o.d.m.
	Chester	- - 18-1hr om
	Spurn Hd	- - 1-7hr b.bc
	Cranwell	- - 1-7- b.bc.
	Gorleston	Sun 0.0 hrs
	Lympne	Past Weather 13-18hr o.c.bc.c.om
15th	Cranwell	13hr Bar 1016.5 mb
	Kensington Palace	Max 49°
	Scilly	1hr Bar 1014.5 mb
	Holyhead	7- Wind NE'E
	Andover	7- Vis: 5
	Paignton	Sun 0.7 hrs
	Torquay	Min 53°
	Renfrew	Rain 7-18hr 1mm.
16th	Tynemouth	13hr Temp 41°
	Calshot	18- Bar 1018.2 mb.
	Holyhead	1- - change -2
	Spurn Head	7hr Temp 42°
	Pembroke	" Wind W 7
	Calshot	- Cloud 800 St 9 -9
	Colwyn Bay	Min 41°
	Aberystwyth	Rain 17-9h 12mm
	Renfrew	Past Weather 18-1h bm Fx
	S. Farnboro'	Min 42°
	Calshot	Grass Min 38°
17th	Andover	Past Weather om.cm.
17	Wick	13hr Wind SE
	Lympne	18- Bar 1013.1 mb.

Report for	STATION.	CORRECTION.
17th	Cranwell	1hr Temp 41°
	Spurn Head	18- Cloud 450 St 10 -10
	Storno way	7- - 800 St 10 -10
	Ross-on-Wye	7- - 2500 St 8 -8
	Scilly	7- Vis 8
	Skegness	Rain 17-9h 2mm
	Aberystwyth	- - 1 -
	Bournemouth	Sun 2.6 hrs
	Tunbridge Wells	0.0.bc 40 48 - - 0.0
	Holyhead	Past Weather 18-1h orro
	Donaghadee	Rain 18-7h 31mm
	Ross-on-Wye	Rain 7-18h 3 -
	Plymouth	Max 51 Min 43 grass 35° Sun Rain 4/c 6/2.9
	Calshot	Min 36°
18th	Tynemouth	13hr Temp 43°
	Holyhead	- Cloud Cu 1 Ci Cu 9
	Benson	- Temp 45°
	Jersey	" See additions
	Croydon	" State of ground 1
	Holyhead	1hr Cloud Nb 10 -10
	Cranwell	7- Temp 40°
	Ross-on-Wye	7- Cloud 2500 Nb 3 ast 7
	Jersey	- Sea 6
	Paignton	Rain 9-17h 6mm.
	Nottingham	Min 31 Grass 27° Rain 18-7h 3
		Sun: 4.2 hrs
	Ross-on-Wye	Past Weather 1-7h ro op.
	Andover	- - - 0.c max 43°
	Pembroke	Max 46°
19th	Castlebay	18hr Sea 7
	Eskdalemuir	18- Temp 35
	Jersey	- Bar 998.0 mb
	Skegness	Rain 17-9h 4mm
	Southsea	" - - 6 - 9-17h nil
	Aberdeen	Past Weather 13-18h bc.om.
	Holyhead	Rain 7-18h 1mm.
	Lympne	Past Weather 18-1h b.bc.c.o.Rro.
20th	Grain	13hr Cloud Cu 2 Ci St 8
	Lympne	- Wind SW'W
	Holyhead	18hr Bar 985.7 mb.
	Chester	- Temp 40
	Andover	- Hum: 97%
	Kensington Pal:	Max 50°
	Holyhead	1hr Wind SW'W
	Cranwell	" Bar 990.1 mb
	Renfrew	7hr " 984.2 -
	Spurn Hd	" - 979.0 -
	Southend	Sun: 1.7 hrs
	Worthing	Rain 9-17h 2mm.
	Castlebay	Sun: 0.7 hrs
	Gorleston	- 0.9 -
	S. Farnboro'	Rain 18-7h 14mm.
	Lympne	" - - 13 -
	-	Past Weather 18-1h rrobom
21st	Andover	13hr Cloud ht 800'
	Benson	18- Hum 85 Vis 9
	Croydon	" Wind SW'S
	Plymouth	" - W 4
	Valencia	1hr Bar 1002.0 mb
	Castlebay	7- Wind ENE
	Harrogate	Rain 17-9h 7 9-17h 27
	Brighton	" 17-9h 13 mm
	Nairn	" Rain 18-7h nil
	Cranwell	Past Weather 18-1hr opro
	Lympne	Rain 18-7h 0.3 mm.
	Croydon	Past Weather 18-1h bq.b.
22nd	"	State of ground 2
	Renfrew	18hr Wind ESE
	Cranwell	- " S'E
	Plymouth	" " SSW
	Croydon	1hr Bar 992.1 mb.
	Lympne	" Vis 6
	Leuchars	7- Bar 976.2 mb.
	Plymouth	" Hum: 55% Vis 8
	Harrogate	Rain 17-9h 4mm
	Southend	Min 35°
	Falmouth	Rain 9-17h 14mm
	Ramsgate	b.bc.o o.c 34 47 - - 34
	Holyhead	Past Weather 13-18h rr.oq
	S. Farnboro'	Min 43° Sun 1.3 hrs
	Plymouth	Rain 7-18h 11mm
	Calshot	Max 45
	Croydon	Past Weather 13-18hr orrRq
23rd	Nottingham	13hr Bar 986.3 mb.
	Nairn	18- Hum 85%
	Tynemouth	- Temp 45°
	Chester	" Wind SW'S.
	Andover	" Bar 992.3 mb.

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, December 1922.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
23rd	Jersey	18hr Temp 48°
	Holyhead	1- Hum: 92%
	Spurn Head	7- Bar: 985.3 mb
	Andover	7- - change +5
	Felixstowe	Rain 17h-9h 18mm
	Paignton	Sun: 1.8 thro
	Brighton	Rain 17-9h 13mm
	Wick	" 4mm + 2 -
	Malin Hd	" 7-18h 5mm
	Chester	Time of rain 20800
	Croydon	Past Wthr 13-18h bcg/PRH
	Lympne	- - 7-13h omr₀ r₀c.
24th	Edinburgh	18hr Bar 988.3 mb
	Kew	- Vis 5
	Gorleston	1hr Bar 1003.1 mb
	Nairn	7- Temp 38°
	Croydon	7- Hum: 92%
	Blackdown	Max 44
	Skegness	Sun: 3.0 thro
	Stornoway	Rain 7-18h 1mm.
	Holyhead	Past Weather 18-1hr or₀c.o
	Croydon	- - 7-13- o.bc
	Lympne	Min 33°
	Plymouth	Past Weather 18-1hr b.opr. 1-7hopr; Max 49 Min 37 Grass 29 Sun 2.5; Rain 18-7h 0.5mm
	Calshot	Grass Min 34°
	Pembroke	Max 47°
	Grain	Past Weather 13-18h o.c.b.bc.
25th	Gorleston	18hr Wind W'S
	Stornoway	7- Bar change -9
	Birr Castle	7- Cloud height 800'
	Portland Bill	- Bar 1012.4 mb
	Calshot	- Hum 85%
	Worthing	bbc bc.c. 33. 43. - - 5.5
	Edinburgh	Max 42°
	Nottingham	Rain 7-18h 0.4 mm
	Gorleston	- - - Trace.
	Scilly	Past Weather 7-13h pcg/p
	Holyhead	- - 18-1h c.bc.or
26th	Leuchars	13hr Hum: 75%
	-	18- Bar 984.5 mb.
	Cranwell	7- Hum: 87%
	Ahyl	c.bc. bc.c. 37. 50 1 0.1 2.2 thro
	Paignton	or bcg orp opd 34 50 2 3 0.0 -
	Falmouth	Sun 0.3 thro
	Southsea	bc.or or 33 48 1 2 0.5 thro
	Worthing	bc.c. orp 30 48 1 0.3 0.5 -
	Folkestone	xcd co 39 48 3 - 0.0 "
	Castlebay	Rain 7-18h 3mm
	Eskdalemuir	Sun 1.0 thro
	Grain	Rain 18-7h 2mm.
	Croydom	Past Weather 1-7hr obmr₀
	Grain	" - 18-1hr or₀R
27th	Dungeness	Rain 7-18h 2mm
	Chester	13hr Vis 8
	Cranwell	" Cloud aCu 3
	Lympne	- Wind SSW
	Malin Head	18hr Hum: 92%
	S. Farnborough	" " 85%
	Clacton-on-Sea	- Wind SW.
	Holyhead	7hr Hum: 92%
	Chester	- - 97%
	Blackpool	phc bcc 42 45 1 - 1.7 thro
	Bath	mb bc pcb b 34 46 - 1 1 2.8 -
	Aberystwyth	3.0 thro Sun:
	Paignton	Sun: 4.9 thro
	Edinburgh	Rain 18-7hr 0.6mm
	Valencia	Sun 2.0 thro
	Lympne	- 5.4 thro Weather 7-13hr ombc.c
28th	Pembroke	Rain 0.2 and 1 mm
	Aberdeen	18hr Vis 6
	Ilfracombe	Min 37°
	Holyhead	Past Weather 7-13hr or₀o.c.
	Chester	- - - - orrpr; - - 1-7hr c.opr.bm
	Ross-on-Wye	Rain 7-18h 6mm
	Andover	Past Weather 18-1hr b.bc; - - 1-7h bcpr
	Croydon	- - 7-13h orr r₀m
	Plymouth	- - 18-1hr b.opr.; - - 1-7- opr.c.
29th	Leuchars	13hr Cloud StCu 2 aSt 3
	Benson	13- Vis: 9
	Liverpool	18- Bar 993.1 mb
	Lympne	1hr Hum: 90%
	Deal	Sun 4.2 thro.
	Benson	Grass Min 34°
	Clacton-on-Sea	Rain 18-7h 1mm
	Plymouth	Sun 0.3 thro.
30th	Spurn Hd	1hr Bar change -13
	Castlebay	7- Vis 7
	Cranwell	- Cloud StH -4; - Weather bc/r
	Croydon	7hr Hum 85%
	Shoeburyness	- Wind WSW
	Buds	Sun. 0.2 thro
	Nairn	- 2.3 -
	Chester	Rain 18-7h 6mm
	Plymouth	Grass Min 39°
31st	Chester	13hr Temp 47°
	Cranwell	- Cloud SrCu 10
	Jersey	- Wind force 5
	Cranwell	18hr - SW'S 5
	Calshot	Bar 978.4 mb.; Wind S'W Sea 0
	Cranwell	7hr Wind NW
	Andover	- Cloud N05 aSt10
	Brighton	Rain 9-17h 2mm
	Liverpool	Sun: 0.4 thro
	Holyhead	Past Weather 1-7hr c.o.cW
	Plymouth	- - 18-1- or.oo; - - 1-7- or₀
		Max 48 Min 40 Grass 34 Sun 0.0
		Rain 18-7h 0.2 thro
	Jersey	Rain 18-7h 6mm Sun 2.2
	Calshot	- 7-18h 13 -

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	Cloud. Sea. 0-9	Weather. 7h.-13h.	Weather. 13h.-18h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun Hours
1st	Blacksod Pt 8hr	1013.7	-2	W	6	o	51	75	7	-	CuNb	6	-	6	x	c										
	Roches Pt 13-	1021.3	-4	SW	5	or₀	51	92	6	2500	Nb	10	-	10	x	or₀m										
	Blacksod Pt 18hr	1016.2	+3	WNW	5	ct	49	85	7	-	CuNb	5	-	5	7		c									
	Roches Pt 18-	1020.9	0	WSW	3	bc	50	92	8	2500	StCu	4	-	4	3		or₀r₀bc								-	x
	Blacksod Pt 7hr	1021.2	+4	NW	4	o	50	75	7	-	Nb	10	-	10	5					51	43	x	1	1	-	x
	Roches Pt 7-	1020.8	0	W	4	opr₀	46	92	8	2500	CuNb	8	-	8	3			cp₀	cp₀	52	46		0.5	0.4	1230 2200	
	Grain 7-	1017.4	-4	SW	4	or₀	46	97	6	2500	Nb	10	-	10	0			bc	omr₀	48	42	33	-	0.4	-	
2nd	Renfrew 13hr	1016.7	+5	NW	5	o	50	75	8	4000	Cu	5	Ci	9	x	bc.c										
	Leuchars 13-	1012.8	+4	NW	3	o	50	75	8	4000	StCu	7	-	7	x	bc										
	Blacksod Pt 13-	1022.5	+2	NW	4	o	50	75	7	-	StCu	10	-	10	x	c										
	Birr Castle 13-	1021.6	x	W	2	o+	47	85	8	3000	7rSt	9	-	9	x	c.o										
	Roches Pt 13-	1022.9	+1	NW	3	or₀	49	85	7	1500	Nb	10	-	10	x	opr₀										
	Blacksod Pt 18hr	1023.5	+2	NW	4	o	49	85	5	-	CuNb	10	-	10	4		c									
	Valencia 18-	1025.8	+1	NNW	3	o	50	75	8	2500	StCu	10	-	10	4		mo						-			
	Roches Pt 18-	1024.3	+2	NNW	3	o	49	85	8	4000	StCu	10	-	10	0		c.o								-	x
	Blacksod Pt 7hr	1026.7	+1	W	4	o	50	92	7	-	CuNb	10	-	10	0			c	c	50	45		0.1	-		x
	Roches Pt 7-	1027.7	+1	NW	2	c	45	97	6	1500	StCu	8	-	8	0			c.bow	bc.c	50	45		0.5	-	20800	
3rd	Blacksod Pt 13hr	1027.3	+3	W	4	o	51	92	9	-	StCu	10	-	10	x	c										
	Roches Pt 13-	1028.3	0	NNW	2	o	50	85	8	2500	StCu	10	-	10	x	c.o										
	Blacksod Pt 18-	1027.7	+2	W	4	o	51	92	5	-	StCu	10	-	10	4		c									
	Roches Pt 18-	1028.9	+1	ENE	1	o	48	85	7	4000	StCu	10	-	10	0		o.c.o									1.0
	Castlebay 7hr	1025.2	0	WNW	3	o	51	85	7	1500	St	10	-	10	3			op.o	o	51	49		1	trace	-	x
	Blacksod Pt 7-	1029.4	+1	SW	4	bc	50	75	7	-	-	0	aSt	5	4			b	o	51	47		-	-	-	x
4th	Roches Pt 7-	1031.0	+1	N	1	o	46	92	7	4000	StCu	10	-	10	0			o	o	50	46		-	-	-	
	Castlebay 13hr	1026.6	0	W	4	o	51	85	7	1500	St	10	-	10	x	o										
	Blacksod Pt 13-	1029.5	+2	W	3	o	49	92	9	-	StCu	10	-	10	x	oo										
	Birr Castle 13-	1030.9	x	SW	1	c-	47	85	8	4000	Cu	8	-	8	x	c.o										
	Roches Pt 13-	1032.0	0	N	1	o	50	85	8	4000	StCu	10	-	10	x	o									-	
	Castlebay 18hr	1026.6	0	SW	4	opr₀	51	92	6	1500	Nb	10	-	10	4		op						trace			
	Blacksod Pt 18-	1029.8	+3	WSW	3	b	49	92	7	-	Cu	9	-	9	4		c									
	Roches Pt 18-	1032.4	+1	N	1	o	48	92	5	2500	St	10	-	10	0		o									
	Birr Castle 18hr	1031.7	x	SW	1	c	44	85	6	2500	Cu	8	-	8	x		c.o.									x
	Blacksod Pt 7-	1030.5	0	SW'W	4	o	50	92	7	-	StCu	10	-	10	4											0.8
	Birr Castle 7-	1033.1	x	SW	1	od₀	45	97	5	800	StCu	10	-	10	x			o	o.c.o	49	43	40	-	0.2	-	x
	Valencia 7hr	1033.2	0	S'E	1	o	47	92	7	1500	St	9	-	9	2			o	omo	51	45	41	0.5	0.4	-	
5th	Roches Pt 7-	1034.7	0	-	0	o	47	92	7	2500	StCu	10	-	10	0			o	o	51	46		-	-		
	Blacksod Pt 15-	1030.7	-1	SW'W	5	o	52	97	7	-	CuNb	9	-	9	x											
	Birr Castle 13hr	1033.1	x	SW	1	o/r	48	92	6	2500	StCu	9	-	9	x	omd										
	Roches Pt 13-	1034.3	0	SW	1	o	49	85	8	2500	StCu	10	-	10	x	o										

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, December 1922.

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	Sol. 0-9	Summaries for the Past 24 Hours. Weather. 7h.-13h.	Weather. 13h.-18h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun. Hours.
5th	Blacksod Pt 18hr	1030.5	-2	W'S	5	fot	51	97	3	-	Nb	10	-	10	7											
	Birr Castle 18	1032.6	*	SW	1	odt	47	97	6	800	Nb	10	-	10	*		odo									
	Roches Pt 18	1034.0	0	WSW	1	o	49	92	8	2500	St	10	-	10	0		o									
	Blacksod Pt 7	1026.5	-3	WSW	5	ffo	50	97	3	-	-	0	a.St	5	7					51	47		0.4	0.5	-	*
	Birr Castle 7hr	1030.0	*	SW	2	bfr	49	92	6	2500	StCu	9	-	9	*			odo	c.o	48	46	44	0.2	0.5	-	*
	Valencia 7	1032.3	-1	SW	3	o	50	92	7	1500	StCu	10	-	10	2				rnd	53	48	45	0.1	0.5	<0800	0.8
6th	Roches Pt 7	1033.3	0	WSW	2	o	47	97	8	1500	St	10	-	10	0			o	o	49	47		-	-	-	*
	Blacksod Pt 13hr	1025.6	-9	WNW	6	bct	52	92	3	-	-	0	a.St	5	*											
	Roches Pt 13	1031.3	-3	W	3	o	52	92	9	2500	StCu	10	-	10	*	oo										
	Blacksod Pt 18	1029.3	+3	NW'W	6	c/r	49	92	4	-	CuNb	8	-	8	6		c									
	Roches Pt 18hr	1029.7	-1	NW	4	b	51	85	8	-	-	0	Ci	2	0		orbcop									
	Blacksod Pt 7hr	1033.7	+3	NW	4	o	48	75	3	-	StCu	10	-	10	*			c	c	52	43	*	0.6	-	-	*
	Birr Castle 7	1032.9	*	SW	1	c	39	92	6	2500	StCu	7	-	7	*			co	co		36	30		-	-	*
	Roches Pt 7	1034.4	0	WNW	2	b	40	92	8	-	-	0	CiCu	3	0			b.bcw	bcb	53	40	*	Trace	Trace	-	*
7th	Birr Castle 13	1033.7	*	SW	1	ct	47	75	8	4000	StCu	8	-	8	*	c.o										
	Roches Pt 13hr	1034.4	0	NW	3	ct	48	85	8	4000	Cu	8	-	8	*	b.bc										
	Blacksod Pt 18	1033.7	0	WNW	4	o	47	85	3	-	StCu	10	-	10	3											
	Birr Castle 18	1033.6	*	SW	1	bc	40	92	7	4000	Cu	4	-	4	*		c.o.bc									
	Roches Pt 18hr	1034.7	+1	N	1	o	45	97	8	4000	St	10	-	10	0		bc.o									
	Castlebay 7hr	1024.2	+1	W	4	bc/r	50	97	6	1500	StCu	6	-	6	3			op.c.	o	48	48	*	0.1	0.1	-	0.1
	Blacksod Pt 7	1031.6	-3	WNW	4	fo	49	97	3	-	Nb	10	-	10	6											
	Birr Castle 7	1031.3	*	SW	1	o	43	97	5	800	St	6	-	6	*			bco.o	bc		37	25		-	-	*
8th	Roches Pt 7hr	1033.5	-1	NW	3	b	38	97	7	-	-	0	-	0	0			ac	bw.	50	38	*	-	0.1	-	*
	Blacksod Pt 13	1029.8	-2	W	4	om	50	97	8	-	Nb	10	-	10	*											
	Roches Pt 13	1030.7	-3	SW	1	ot	47	97	8	4000	StCu	9	-	9	*	b.o										
	Blacksod Pt 18hr	1026.3	-6	NW	4	o	50	97	3	-	StCu	10	-	10	3											
	Roches Pt 18	1028.4	-2	WSW	1	o	50	97	8	2500	St	10	-	10	0		o									
	Blacksod Pt 7hr	1021.7	-9	NW	4	fot	51	97	3	-	Nb	10	-	10	6					50	46	*	0.1	0.3	-	*
	Valencia 7	1025.8	-2	W'N	3	o	52	85	6	1500	St	10	-	10	1				omoom	51	48	46		Trace	-	0.3
	Roches Pt 7	1024.2	-1	SW'W	2	o	48	97	7	2500	St	10	-	10	0			oiro	c	50	48	*	-	0.1	<2100	*
9th	S. Farnboro' 7	1020.5	0	WNW	2	om	42	97	6	2500	St	10	-	10	*			b.bc	e.bco		42	35		Trace	-	0.1
	Blacksod Pt 13hr	1021.5	+1	N	4	ot	50	97	3	-	CuNb	10	-	10	*	m										
	Roches Pt 13	1021.6	-3	NW	2	o	51	97	8	2500	Nb	10	-	10	*											
	Blacksod Pt 18	1025.9	+2	NNW	4	o	46	97	3	-	StCu	10	-	10	3											
	Roches Pt 18hr	1021.9	+2	NW	2	o	49	92	8	2500	StCu	10	-	10	0		a.bc.o									
	Birr Castle 7	1025.8	*	W	1	ffo	37	97	2	<150	St	10	-	10	*			addco	off		37	32		0.3	<2100	*
10th	Roches Pt 7	1025.6	+2	NE	1	o	44	92	7	2500	StCu	10	-	10	0			o	o	52	43		1	-	1100	*
	Blacksod Pt 13hr	1026.9	+2	NNW	4	o	47	97	9	-	StCu	10	-	10	*	oo										
	Roches Pt 13	1027.3	0	NE	1	o	47	85	7	4000	StCu	10	-	10	*	o										
	Blacksod Pt 18	1028.3	+2	NW	4	o	47	97	3	-	StCu	10	-	10	3		o.c.o									
	Roches Pt 18hr	1028.5	+3	-	0	o	45	92	8	2500	St	10	-	10	0		o.c.o									
	Castlebay 7hr	1028.8	0	-	0	o	44	85	7	2500	St	10	-	10	0			oo	c.o	47	43	*	-	-	-	0.1
	Blacksod Pt 7	1029.2	+2	SW	4	o	45	85	3	-	CuNb	10	-	10	3					48	43	*	-	-	-	*
11th	Roches Pt 7	1029.8	0	SSE	1	o	46	92	6	4000	StCu	10	-	10	0			o	oim	48	44	*	-	-	-	*
	Castlebay 13	1029.2	0	S	2	o	46	75	7	2500	St	10	-	10	*	o										
	Blacksod Pt 13hr	1029.8	-1	SE	4	o	46	75	7	-	Cu	9	-	9	*											
	Birr Castle 13	1030.6	*	SE	1	ot	44	92	6	4000	StCu	9	-	9	*	c.oz										
	Roches Pt 13	1030.4	0	SSE	1	o	49	85	7	2500	StCu	10	-	10	*	oo										
	Jersey 13hr	1028.7	+1	N	2	o	46	75	7	2500	StCu	10	-	10	*	o										
	Castlebay 18	1028.4	0	SW	3	o	46	75	6	2500	St	10	-	10	1		o.						-	-		
	Blacksod Pt 18	1028.1	+2	SE	5	ot	46	75	3	-	CuNb	10	-	10	4											
	Roches Pt 18hr	1029.4	0	SE	3	o	49	92	8	-	-	0	a.St	10	0		oo									
	Birr Castle 18	1029.7	*	SE	1	ot	43	92	5	450	StCu	10	-	10	*		o									
	Jersey 18	1030.0	+1	N	2	o	45	75	7	2500	StCu	10	-	10	0		o						-	-	-	
	Blacksod Pt 7hr	1031.0	-8	SE	5	o	47	85	3	-	CuNb	10	-	10	*					47	43		-	-	-	*
	Birr Castle 7	1023.9	*	S	3	o	46	85	6	800	StCu	10	-	10	*			o	o	44	42	40	-	-	-	*
12th	Valencia 7	1022.5	-3	SSE	5	odo	49	85	6	1500	StCu	10	-	10	1				o	49	47	43		-	-	0.0
	Roches Pt 7hr	1025.6	-1	S	5	o	49	92	8	2500	StCu	10	-	10	6			oo	oo	49	49	*	-	-	-	*
	Blacksod Pt 13	1016.2	-6	S'E	6	ot	50	75	9	-	CuNb	10	-	10	*											
	Birr Castle 13	1022.6	*	SE	1	c-	48	85	8	3000	StCu	6	CiCu	8	*	c.o										
	Roches Pt 13	1022.7	-3	S	5	o	50	85	8	2500	StCu	10	-	10	*	o										
	Blacksod Pt 18hr	1013.6	-6	SE	7	oPR+	51	97	7	-	Nb	10	-	10	8		p									
	Birr Castle 18	1019.2	*	SSE	3	o	48	85	7	800	StCu	10	-	10	*		c.o									
	Roches Pt 18	1020.7	-1	SSW	5	oro	50	92	8	1500	Nb	10	-	10	6		ororo									
	Blacksod Pt 7hr	1012.6	+3	S'E	5	ot	51	92	2	-	-	0	a.St	10	5			p	p	51	49	*	1	3	-	*
	Birr Castle 7	1018.5	*	SSE	1	o	48	97	6	2000	Nb	10	-	10	*			c.o	ido	48	47	47	-	0.1	-	0.0
13th	Roches Pt 7	1021.3	0	SSW	4	o	49	97	6	800	St	10	-	10	6			roroom	oroo	50	49	*	0.4	4	-	*
	Blacksod Pt 13hr	1007.7	-3	SW	6	oPR+	53	85	7	-	-	0	a.St	10	*	p										
	Roches Pt 13	1018.3	-2	SW	5	o	51	97	6	800	St	10	-	10	*	o/m										
	Blacksod Pt 18	1005.9	-1	S'E	7	o/r	54	92	1	-	-	0	a.St	10	8		oo									
	Roches Pt 18	1016.7	0	SW	5	o	52	97	7	800	St	10	-	10	6		o/m									
	Blacksod Pt 7hr	1012.7	+5	SW'W	4	ot	51	75	3	-	-	0	a.St	10	6				oo	50	43	*	1	4	-	*
14th	Roches Pt 7	1014.6	-1	SW	5	odo	52	97	5	800	Nb	10	-	10	6			odoo	oddm	53	52	*	-	2	-	*
	Blacksod Pt 13	1012.5	-2	SW	4	ot	50	92	7	-	Nb	10	-	10	*	m										
	Roches Pt 13hr	1013.2	-2	SSW	5	o	53	97	5	1500	St	10	-	10	*	ddomd										
	Blacksod 18	1005.1	-2	SW	4	fo-	48	92	3	-	Nb	10	-	10	4		m									
	Roches Pt 18	1011.4	-2	SSW	6	oddo	53	97	5	800	Nb	10	-	10	7		ssmddo									
	Blacksod Pt 7hr	1011.3	+5	W	4	o	41	92	3	-	St	9	-	9	3			m	m	51	43	*	1	1	-	*
15th	Roches Pt 7	1012.4	+1	W	3	orr	48	97	7	2500	Nb	10	-	10	6			rorom	rr	53	48	*	1	9	<0800 <2100	*
	Blacksod Pt 13hr	1014.4	+6	W	3	c	49	85	8	-	CuNb	7	-	7	*	c										
	Roches Pt 13	1014.3	+2	N	1	o-	50	92	8	4000	StCu	7	CiSt	9	*	rro										
	Blacksod Pt 18hr	1017.2	+4	SW'W	2	bc	43	92	5	-	-	0	CiCu	4	4											
	Roches Pt 18	1016.2	+3	N	8	b-	44	97	8	-	-	0	CiCu	2	1		o.c.b.									

‡ The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, December 1922.

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.	Summaries for the Past 24 Hours. Weather. 7h.-13h.	Weather. 13h.-18h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun. Hours
15th	Blacksod Pt	7hw 1018·0	+2	W	2	b	40	92	5	-	Cu	2	-	2	1					49	36	x	-	0·5	-	x
	Roches Pt	7- 1016·1	-1	NNE	3	orr	42	97	5	1500	Nb	10	-	10	0			b.o	orrzm	50	42	x	3	4	<0800 0930	x
16th	Blacksod Pt	13- 1016·6	-2	NW	2	c	42	92	7	-	-	0	aSt	8	x											
	Roches Pt	13- 1012·3	-3	NE	2	or	47	97	6	2500	Nb	10	-	10	x	Trm										
	" "	18hw 1011·7	-1	N	3	bc	54	97	8	2500	Nb	4	-	4	0		Trbc			-						
	Blacksod Pt	7- 1010·2	-4	S	4	bc	45	92	5	-	-	0	aCu	6	6					46	35			0·3	-	x
	Roches Pt	7- 1008·5	-1	SE	3	o	42	97	8	2500	St	10	-	10	3			c.o	bc	47	35	x	7	-	-	x
17th	Blacksod Pt	13hw 1005·2	-5	S	4	op	45	75	9	-	Nb	10	-	10	x											
	Roches Pt	13- 1009·1	-8	WSW	4	bc	49	85	8	-	-	0	Ci	6	x	orrbc										
	Blacksod Pt	18- 1003·7	-2	W	5	orr	45	75	7	-	CuNb	10	-	10	6		Tord									
	Roches Pt	18- 1008·1	0	W	3	b	43	92	8	2500	CuNb	3	-	3	3		c.obb						3		<0800	
	Castlebay	7hw 1000·2	-2	SE	4	o	45	85	6	1500	St	10	-	10	4			op.o	o	46	42	x		0·2	-	0·0
	Blacksod Pt	7- 999·4	-4	SSE	4	ct	42	75	5	-	Cu	2	Cu Cu	8	5			p	p	45	33	x	4	3	-	x
18th	Roches Pt	7- 1006·4	-6	SSW	2	o	40	92	7	-	-	0	aSt	10	0			cp.b	b.o	49	35	x	3	0·3	<2100	x
	Castlebay	13hw 998·3	-2	NE	2	op	41	92	8	800	St	10	-	10	x	op										
	Blacksod Pt	13- 997·4	-10	SE	5	opro	41	85	9	-	Nb	10	-	10	x	Tord										
	Birr Castle	13- 998·4	x	SE	1	o+	39	?	6	450	Nb	10	-	10	x	bc.oc2										
	Valencia	13- 993·0	-14	ESE	5	o/r	43	85	8	1500	St	10	-	10	x	or.o										
	Roches Pt	13hw 996·7	-13	SE	5	orr	44	97	6	1500	Nb	10	-	10	x	orrim										
	Jersey	13- 1009·3	-2	SSW	5	orr	44	92	6	1500	Nb	10	-	10	x	orr										
	Castlebay	18- 993·0	-5	ENE	5	opr	45	85	6	800	St	10	-	10	6		op						2		-	
	Blacksod Pt	18- 984·7	-10	SE	6	o/s	43	92	3	-	Nb	10	-	10	7		Sorrs									
	Birr Castle	18- 988·3	x	E	3	orr	41	?	5	450	Nb	10	-	10	x		orrro						1		1330	
	Roches Pt	18hw 989·8	-10	WSW	3	c-	50	97	8	1500	Nb	7	-	7	6		rr.c									
	Blacksod Pt	7- 978·0	-7	SSW	7	oPR-	43	75	3	-	CuNb	10	-	10	8			Sorrs	Sorrs	43	39	x	0·3	2	-	x
	Birr Castle	7- 986·0	x	E	1	bc-	38	-	6	4000	StCu	4	-	4	x			bc	orbc	41	38	31	1	3	<2100	x
	Valencia	7- 986·0	-3	SW'S	6	bc	44	65	8	4000	StCu	5	-	5	4			orpb	bcphq	53	42	38		3	<2100	0·0
	Roches Pt	7hw 989·3	-1	WSW	4	cPH	40	97	8	1500	CuNb	7	-	7	6			bcp	cph	51	40	x	8	1	-	x
	Plymouth	7- 993·8	0	WSW	1	o	51	92	8	1500	St	10	-	10	0			cbcrd	opw	46	46	43		3	-	0·0
19th	Blacksod Pt	13hw 971·0	-10	S'W	7	oPR+	46	75	7	-	Nb	10	-	10	x											
	Birr Castle	13- 984·1	x	SSE	2	orsts	39	x	6	2500	Nb	9	-	9	x	hwhr										
	Roches Pt	13hw 986·4	-4	WSW	7	cPH	47	75	8	1500	CuNb	7	-	7	x	orsts										
	Blacksod Pt	18- 967·8	-4	SSW	8	ozz	46	75	7	-	CuNb	9	-	9	9	cphq										
	Birr Castle	18- 978·1	x	SSE	3	o+	41	x	6	1500	Cu	9	-	9	x		hwrh									
	Roches Pt	18hw 983·4	-2	WSW	5	c	47	85	8	1500	CuNb	7	-	7	7		tsrsc									
	Blacksod Pt	7- 978·1	+5	W	7	oPR	42	97	7	-	CuNb	9	-	9	8		cphq									x
	Birr Castle	7- 983·2	x	S	3	bcr	42	x	7	4000	Cu	6	-	6	x			hwrh		57	40	x	10	5	-	x
	Valencia	7hw 985·0	+3	W'S	6	oph	46	75	8	2500	StCu	10	-	10	x			iRc		42	40	35	2	3	-	
	Roches Pt	7- 985·8	+3	W	4	cpro	42	92	8	2500	CuNb	7	-	7	6			bcopl	copl	47	43	40	1	2	<2100	0·2
20th	Blacksod Pt	13- 979·3	+4	W	5	oPR-	45	75	7	-	CuNb	9	-	9	x			cpl	cpo	49	42	x	2	1	-	x
	Roches Pt	13hw 987·4	0	W	5	cpro	42	85	8	2500	CuNb	9	-	9	x	p										
	Blacksod Pt	18- 980·2	+4	WSW	6	o	44	75	7	-	CuNb	9	-	9	8	cpo										
	Roches Pt	18- 986·6	0	W	1	cpro	40	92	8	2500	CuNb	7	-	7	1		p									
	Blacksod Pt	7hw 984·0	+3	NW'N	4	orr	42	85	7	-	CuNb	10	-	10	4		cp									x
	Roches Pt	7- 985·8	+1	NW	2	b	36	92	8	-	-	0	-	0	1			cpo	Bx	47	35	x	4	4	-	x
21st	Dungeness	7hw 978·6	-2	SE	8	c-	48	92	8	2500	Cu	7	-	7	8				grvcq	45	35	x	1	0·3	<0800 <2100	x
	Blacksod Pt	13- 987·7	+5	W'N	2	opro	45	75	7	-	St	9	-	9	x					47	42	x		7	<2100	
	Roches Pt	13- 988·8	+3	W	3	ct	42	85	8	4000	StCu	7	-	7	x	p										
	Blacksod Pt	18hw 994·1	+6	WNW	4	oPR	43	75	5	-	CuNb	10	-	10	6	obc.c										
	Cranwell	18- 980·1	+9	WSW	6	oss	33	97	4	450	Nb	10	-	10	x		p									
	Roches Pt	18- 995·1	+6	W	3	b	40	92	8	-	-	0	-	0	3		grmcq						20		<0800	
	Blacksod Pt	7hw 980·2	-8	SE'S	8	oPR+	42	85	3	-	Nb	10	-	10	9		cpob									
	Valencia	7- 988·9	-7	SE	7	oro	43	92	6	800	St	10	-	10	x			rid	rid	45	35	x	2	5	-	x
	Roches Pt	7- 992·3	-9	S	8	orr	44	97	5	1500	Nb	10	-	10	7				bcpor	44	39	34		3	-	0·0
W																		b	orrim	43	37	x	0·3	5	-	x
22nd	Blacksod Pt	13hw 975·9	-6	SSW	6	bcPR+	47	75	7	-	CuNb	6	-	6	x											
	Roches Pt	13- 984·1	-3	SW	4	bc-	50	85	8	2500	CuNb	3	Ci	5	x	north										
	Blacksod Pt	18hw 972·2	-5	S	7	oPH	43	75	3	-	Nb	10	-	10	9	ssopb										
	Roches Pt	18- 979·7	-4	WSW	4	bcpro	47	92	9	2500	Nb	5	-	5	6		hwrh									
	Castlebay	7hw 968·0	+1	SE	5	c	45	75	6	1500	St	7	-	7	6		bcpo									
	Blacksod Pt	7- 957·0	-6	SSW	8	oPR+	48	85	3	-	Nb	10	-	10	9			bc.b.o	opc	47	45	x		0·2	-	0·0
	Valencia	7- 969·2	-6	SSW	7	oro	45	85	6	1500	St	10	-	10	x				zlr	48	39	x	9	15	-	x
	Roches Pt	7hw 975·8	-5	SW	7	orr	45	92	6	800	Nb	10	-	10	7				cpor	50	42	37		5	-	2·3
23rd	Blacksod Pt	13- 980·9	-3	WSW	7	oPR	49	92	7	-	Nb	10	-	10	x			cp	orr	52	42	x	4	4	<0800 <2100	x
	Roches Pt	13- 975·9	+1	WSW	5	opr	46	92	6	800	Nb	10	-	10	x	p										
	Blacksod Pt	18hw 969·6	+2	W'N	7	oPR-	48	75	3	-	Nb	10	-	10	9	rr.op										
	Valencia	18- 976·0	+6	W	6	ct	50	45	?	-	Nb	5	Ci	7	?		p									
	Roches Pt	18- 978·5	+3	WSW	4	o	45	92	8	2500	StCu	7	Ci St	9	6		opr.c									x
	Blacksod Pt	7hw 990·0	+9	W	6	oPR+	45	75	3	-	Nb	10	-	10	8		cp.o								-	
	Valencia	7- 995·8	+4	S'E	6	c	44	65	7	2500	StCu	7	-	7	x				hwrh	?	?	x	3	7	<2100	0·2
	Roches Pt	7- 993·7	+8	W	4	b-	41	92	8	4000	CuNb	3	-	3	6			cpb	bcop	50	41	38	?		-	x
24th	Blacksod Pt	13hw 994·4	+8	NW'W	6	oPH	42	92	7	-	Nb	10	-	10	x			cp	cp.b	49	41	x	3	3		
	Roches Pt	13- 988·6	+5	W	4	b	44	75	8	4000	Cu	3	-	3	x	hwrh										
	Renfrew	18- 990·0	+7	W	3	o	43	85	6	4000	StCu	7	aSt	9	x	b										
	Blacksod Pt	18- 998·9	+6	WNW	6	oPH	44	75	3	-	CuNb	10	-	10	8		hwrh								1300	
	Chester	18hw 994·7	+5	WNW	4	opro	39	92	7	2500	Nb	10	-	10	x		opro			48			1			
	Roches Pt	18- 1002·7	+6	W	4	b	46	85	8	-	-	0	-	0	4		b									
	Grain	18- 1001·8	+5	SSW	4	c	43	85	8	-	-	0	aSt	7	3		o.cbbo									2·5
	Castlebay	7hw 1002·5	+2	W	3	cpro	41	75	7	1500	Sthr	8	-	8	3			bcopb	b.op	47	39	x	Trace	2	-	x
	Blacksod Pt	7- 1009·0	+4	W	6	oPH	45	75	3	-	CuNb	10	-	10	6			zlr	zlr	47	36	x	3	1	-	x
25th	Roches Pt	7- 1013·7	+5	W	3	b	38	92	8	-	-	0	Ci Cu	3	1			bx	bw	45	37	x	-	0·2	-	
	Castlebay	13hw 1002·8	0	SW	4	bcfh	44	85	8	2500	StCu	3	Ci Cu	6	x	phq										
	Blacksod Pt	13- 1007·0	-2	W	5	opro	45	85	8	-	CuNb	10	-	10	x	p										
	Birr Castle	13- 1012·3	x	SW	1	bct	43	?	7	4000	StCu	4	-	4	x	bc										

‡ The barometric change is expressed in half millibars.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION. CORRECTIONS AND ADDITIONS, December 1922.

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	Cloud. Sea. 0-9	Weather. 7h.-13h.	Weather. 13h.-18h.	Weather. 18h.-1h.	Weather. 1h.-7h.	Temperature. Max. Day. 7h.-18h.	Temperature. Min. Night. 18h.-7h.	Temperature. Min. on Grass.	Rainfall.† Day. 7h.-18h.	Rainfall.† Night. 18h.-7h.	Rainfall.† Precipitation began.	Sun. Hours.
											SUMMARIES FOR THE PAST 24 HOURS.															
25th	Roches Pt 13hr	1014·6	+1	WSW	2	b-	45	85	8	4000	St Cu	2	Ci	3	*	b								2	-		
	Castlebay 18-	1000·3	-2	SSW	5	oPH	46	85	6	1500	St Cu	10	-	10	4		cohp										
	Blacksod Pt 18-	1002·7	-4	SSW	7	oPR	45	85	3	-	Nb	10	-	10	8		Tord										
	Birr Castle 18hr	1009·9	*	S	3	oi To t	47	85	7	1000	Nb	9	-	9	*		bc.c.o										
	Roches Pt 18-	1012·8	-1	SW	3	o	46	85	8	2500	St Cu	8	Ci St	10	1		bc.c.o										
	Renfrew 7-	988·4	?	SSW	5	o·rr	46	97	6	800	Nb	10	-	10	*			odgrg	oorrg	44	41	38		6	<2100	7·2
	Blacksod Pt 7-	985·0	-7	W	4	oPH	48	95	3	-	Nb	10	-	10	9				hwrh	47	42	*	3	19	-	*
	Birr Castle 7hr	993·3	*	SW	6	bo irg	47	85	7	2000	Nb	6	-	6	*			coq	ir	44	41	37	1	6	-	?
	Roches Pt 7-	999·2	-1	WSW	4	cPR	46	92	8	2500	Cu Nb	7	-	7	6				rrcp	46	46	*	-	8	<2100	*
	Grain 7-	1014·6	-2	S	4	o	47	92	8	4000	St	10	-	10	3		bbco		o.bb.	44	32	24	Trace	-	1430	6·3
26th	Blacksod Pt 13hr	990·2	+5	W	8	oPH	46	85	7	-	Nb	10	-	10	*	hwrh										
	Renfrew 13-	984·1	-4	SW	7	o rr	45	97	6	800	Nb	10	-	10	*	bqogr										
	Birr Castle 13-	995·5	*	S	4	ct	44	95	7	4000	Nb	8	-	8	*	cpTo										
	Roches Pt 13hr	1000·7	+1	WSW	5	b-	48	85	8	4000	Cu Nb	2	Ci	3	*	cp b										
	Renfrew 18-	987·6	+5	SW	3	o To To	44	85	6	800	Nb	10	-	10	*			oqrr								
	Blacksod Pt 18-	993·4	+5	W	7	oPH	43	-	7	-	Cu Nb	10	-	10	8			hwrh								
	Birr Castle 18-	1000·1	*	SW	2	ot	39	85	6	4000	Nb	9	-	9	*			cpRH								
	Roches Pt 18hr	1003·8	+3	W	3	c	42	92	8	-	-	0	Ci St	7	6			b bc.c								
	Gailshot 18-	1007·3	-1	WSW	5	o/r	47	97	7	1500	St	10	-	10	4											
	Renfrew 7hr	992·6	+1	WSW	4	c/rr	43	85	6	1500	Nb	7	-	7	*			oqRR	oprtrc	48	38	35	4	13	<0800<2100	0·0
	Blacksod Pt 7-	1001·7	+4	W	5	oPTo	44	65	3	-	Nb	10	-	10	4			p	p	50	35	*	2	7	-	*
	Birr Castle 7-	1004·4	*	SW	1	c-	38	92	6	1500	Nb	7	-	7	*			cophc	cophc	48	37	31	2	2	<0800<2100	*
27th	Roches Pt 7hr	1007·9	+1	WSW	3	bc	39	92	8	2500	Cu Nb	5	-	5	3		b		bcp.bc	48	38	*	2	0·3	<0800 0330	*
	Renfrew 13-	995·9	+3	W	6	oPH	40	92	8	800	Nb	10	-	10	*	coKyRqR										
	Blacksod Pt 13-	1000·4	-2	W	5	ot	46	95	7	-	Cu Nb	9	-	9	*	oo										
	Birr Castle 13hr	1005·8	*	SW	2	bc-	40	92	8	4000	St Cu	4	Ci Cu	6	*	cpr										
	Roches Pt 13-	1008·2	0	WSW	2	b	45	85	8	2500	Cu Nb	1	Ci	3	*	bc b										
	Renfrew 18hr	997·3	+2	SW	4	c/r	41	85	7	5700	St Cu	4	Ci	8	*			oprhco								
	Tynemouth 18-	1000·5	+2	W	2	b	42	75	0	-	-	0	-	0	0			c bcmq					-		-	
	Blacksod Pt 18-	997·3	-1	W	5	ot	47	75	3	-	St Cu	10	-	10	5			oo								
	Birr Castle 18hr	1003·2	*	SSW	3	ct	41	85	7	800	St	8	-	8	*			cpTo								
	Roches Pt 18-	1007·1	-1	WSW	2	ct	45	85	8	-	-	0	Ci	7	1			bbc.c								
	Blacksod Pt 7hr	989·4	-4	SW	6	oPH	42	65	3	-	Nb	10	-	10	2				hwrh	hwrh	47	35	*	1	2	-	*
	Birr Castle 7-	996·9	*	S	2	c-	40	97	6	2500	St Cu	7	-	7	*			pRco	co/s	42	33	31	1	6	<0800<2100	*
28th	Roches Pt 7-	999·3	-3	W	4	cpTo	38	92	8	2500	Cu Nb	7	-	7	3			cp	cp	46	38	*	-	2	<2100	*
	Blacksod Pt 13hr	989·1	-3	W	7	oPH	44	75	7	-	Nb	10	-	10	*	hwrh										
	Roches Pt 13-	998·4	-1	WSW	5	cpTo	40	85	8	2500	Cu Nb	8	-	8	*	cpo										
	Blacksod Pt 18hr	995·5	+3	WNW	6	o ct	43	65	3	-	Cu Nb	10	-	10	8		hwrh									
	Roches Pt 18-	1000·6	-4	W	5	o rr	40	92	8	1500	Nb	10	-	10	6		c.or									
	Blacksod Pt 7-	995·6	+1	W'N	5	bo PH	40	-	7	-	Nb	6	-	6	4			hwrh	hwrh	40	35	*	3	2	-	*
29th	Roches Pt 7hr	1001·4	0	SW	2	o	38	97	7	4000	St Cu	10	-	10	1			opb	b.o	42	36	*	1	0·5	-	*
	Blacksod Pt 13-	990·6	-1	SW	5	opTo	43	75	7	-	Nb	10	-	10	*	p										
	Roches Pt 13-	996·7	-9	SW	3	o To To	44	97	6	800	Cu Nb	10	-	10	*	o To To										
	Blacksod Pt 18hr	985·9	-3	SE'S	5	opTo	40	92	3	-	Nb	10	-	10	6											
	Roches Pt 18-	985·7	-11	ENE	2	o	45	97	8	2500	St Cu	9	-	9	3		rr.o									
	Blacksod Pt 7-	979·1	-5	WSW	2	o	44	85	3	-	St	10	-	10	5					45	37	*	0·6	5	-	*
30th	Roches Pt 7hr	985·3	-3	SW	4	o	44	97	8	800	St	10	-	10	6			cfb	bor.o	46	41	*	9	1	<0800<2100	*
	Blacksod Pt 13-	975·7	-7	W	3	o/r	43	92	9	-	Nb	10	-	10	*											
	Roches Pt 13-	978·0	-11	SW	5	c	48	85	8	1500	St Cu	6	Ci	8	*	o.c										
	Blacksod Pt 18hr	970·3	-2	SE'E	3	o/r	40	92	3	-	St Cu	10	-	10	4											
	Roches Pt 18-	970·9	-10	SW	4	oR	43	97	7	1500	Nb	10	-	10	6		cotR									
	Blacksod Pt 7hr	973·9	+4	NW	4	c	43	75	5	-	Cu Nb	6	-	6	5					41	35	*	2	2	-	*
31st	Roches Pt 7-	971·4	+2	NW	2	c	38	65	6	2500	St Cu	7	-	7	1			Ro	o.c	49	38	*	2	2	-	*
	Blacksod Pt 13hr	976·6	+4	N	2	bc	44	75	9	-	Cu	5	-	5	*											
	Roches Pt 13-	975·6	+4	N	4	bc-	44	92	7	2500	Cu Nb	5	-	5	*	c.bc										
	Blacksod Pt 18-	980·8	+4	N	4	o ct	41	85	7	-	Cu Nb	10	-	10	6		ZLr									
	Roches Pt 18-	980·5	+5	NW	3	bc-	41	92	7	2500	Cu Nb	3	-	3	2		bc b									
	Castlebay 7hr	986·6	+4	NNW	2	bc	42	85	6	2500	St Cu	2	-	2	2			bc	op.cp	43	40	*	-	2	-	3·0
	Blacksod Pt 7-	989·9	+4	W	4	bc-	43	75	5	-	Cu Nb	6	-	6	5				ZLr	45	36	*	3	2	-	*
	Roches Pt 7-	988·5	+6	NW	4	bc PR	39	92	8	2500	Cu Nb	5	-	5	1			bc	cp	45	39	*	-	3	0330	*

‡ The barometric change is expressed in half millibars.

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

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE & RAINFALL FOR THE YEAR 1922.

STATIONS	Frequency of high & low temperature: Days 32 or below	Days 33–41 °F	Days 75–86	Days 87 or above	Nights 23 or below	Nights 24–32 °F	Nights 60–68	Warmest day: Highest Maximum °F	Date	Coldest day: Lowest Maximum °F	Date	Warmest night: Highest Minimum °F	Date	Coldest night: Lowest Minimum °F	Date	Days with humidity below 40%	Number of ground frosts	Days with thunder	Days with snow or sleet
Aberdeen	1	57	0	0	1	33	0	75	12 June	32	17 Jan.	59	31 May	23	18 Jan.	7	98	2	51
Edinburgh (Inchkeith)	0	48	0	0	0	12	0	70	31 May	33	17 Jan.	56	27 Aug.	28	18, 25 Jan.	-	39	1	22
Eskdalemuir	6	65	0	0	18	94	0	77	1 June	28	17 Jan., 6 Feb.	55	9 June	8	18 Jan.	19	131	5	56
Birr Castle	0	17	2	0	0	52	0	78	31 May, 1 June	36	16, 24 Jan.	59	21 Sept.	25	12 Jan. 22, 29 Mar.	*	93	3	15
Holyhead	0	12	0	0	0	5	0	74	7 June	33	24 Jan.	59	29 July	26	25 Jan.	*	7	4	6
Nottingham	5	33	10	0	3	47	1	85	1 June	28	24 Jan.	61	22 May	18	6 Feb.	*	74	8	24
Gorleston	3	39	0	0	1	33	1	77	29 July	27	24 Jan.	63	30 July	22	18 Jan.	*	47	12	35
London (New Observatory)	3	25	10	0	0	33	3	86	22, 23, 24 May	29	24 Jan.	63	30 July	26	2 April	9	91	11	15
Falmouth	0	4	0	0	0	3	0	73	31 May	39	22 March	57	2 June, 21 July, 20 Sept.	29	23 March	1	*	10	6

RAINFALL

STATIONS	Days with 0, Trace or 0·1 mm.	15·1 to 25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date	Wettest Month	mm.	Driest Month	mm.	Total for Year	Diff. from average
Aberdeen	160	10	0	24	6 July	July	107	May	25	773	+25
Edinburgh	198	0	0	13	8 July	July	72	May	28	459	*
Eskdalemuir	130	18	4	33	14 April	July	171	June	69	1279	*
Holyhead	180	9	1	42	12 Sept.	Dec.	99	May	23	776	-113
Nottingham	191	2	3	53	6 Aug.	Aug.	130	Oct.	14	684	+86
Gorleston	177	4	1	34	14 July	July	111	May	10	699	+77
London	203	2	0	20	5 July	July	84	Oct.	18	568	-36
Falmouth (Observatory)	159	16	3	31	19 Dec.	Dec.	201	June	26	1151	+44

* Under the heading rainfall, measurements at 6 p.m. on 31st. Dec. have been included but not those for the following night.

SUNSHINE

STATIONS	No. of days with no sun	With more than 9 hrs.	Maximum duration hrs.	Date	Sunniest Month	hrs.	Dullest Month	hrs.	Total for Year	Diff. from average
Aberdeen	73	21	16·3	31 May	May	192	Jan.	32	1208	-179
Edinburgh	*	*	15·2	31 May, 7 June	May, June	181	*	*	*	*
Eskdalemuir	90	29	14·5	31 May	June	165	Dec.	17	1164	*
Holyhead	73	57	15·6	11 July	May	229	Dec.	24	1565	*
Nottingham	86	33	14·4	6 June	June	205	Jan.	15	1169	-156
Gorleston	*	*	15·0	28 May, 4, 6, 7 June	May	280	Jan.	32	*	*
London	71	48	14·7	28 May	May	291	Nov.	40	1478	+3
Falmouth (Observatory)	59	61	15·0	28 May, 11 June	May	260	Dec.	48	1664	-95

METEOROLOGICAL OFFICE. AIR MINISTRY.

Issued at 19.30 G.M.T. 31st. December 1922

Notes on the Weather of 1922.

The severe drought and exceptional heat of 1921 found some counterpart in the early summer of 1922. A spell of fine, warm weather set in towards the end of May but did not long continue, a break occurring during the latter part of June and thereafter there was no general shortage of rainfall until the autumn and no excessive heat.

January and February were mainly mild and wet though there were a few cold days in each month. Frost persisted during the day on January 24th, when the thermometer at 1 p.m. stood at 27°F at Kew and 24°F at Lympne. On the other hand, temperature rose above 60° in many parts of the Midlands on February 25th. The beginning of March was likewise mild, wet and very windy. In an unusually severe gale which swept across southern England on the morning of the 8th, a velocity of 108 miles per hour was attained in a gust at Scilly, the second highest record obtained from anemometers in the British Isles.

The latter part of March and almost the whole of April were cold with much rain, sleet or snow at times but by the end of the first week in May the thermometer had risen considerably and on the 8th touched 80° at some inland stations. After a temporary renewal of cool weather near the middle of the month an anticyclone began to spread over England from the Continent about the 20th and there followed a period of exceptional heat. For several days in succession temperature rose above 80° and occasionally touched 89° or even 90° in some localities. The conditions favoured not only the development of thunderstorms inland, which were accompanied by very heavy rain in places, but also of local fog at sea in which occurred the fatal collision of the Seine with the Egypt.

Warm, sunny weather was fairly well maintained until near the middle of June but from then onwards until the end of September cool, unsettled conditions predominated. July was very wet and rough at first in the South and generally cool. At some stations it was the coldest July on record for about thirty years or even longer. Thunderstorms accompanied by exceptionally heavy rain and consequent flooding occurred in the Midlands and northeastern counties of England during the first ten days of August. More than 50 mm (2 inches) fell in various places on the 6th, while on the following day as much as 89 mm fell at Sheffield and 82 mm at Strelly Hall, Nottingham. Some heavy local rain was also experienced in September: 78 mm at Blackpool in a thunderstorm in the early hours of the 1st and 83 mm at Mallarany, Co. Mayo, on the 18th.

October, normally one of the wettest months, was remarkably dry: in the Cheshire plain, for instance, precipitation only amounted to 10% of the normal. Sunshine records were remarkably good from the 11th to the 16th, on each of which days between eight and ten hours were enjoyed in the Southeast. On the whole temperature was rather low, especially towards the end of the month when snow or sleet fell over a wide area including Cornwall and Jersey. Part of November and early December were also rather dry but during the last few weeks of the year unsettled conditions once more prevailed with much rain, moderate temperature and strong gales at times on the coasts.

Meteorological Office, Air Ministry, W.C.2.
31st December, 1922.

Issued at 1930 G.M.T.