M.O. FORM 2373

AIR MINISTRY.

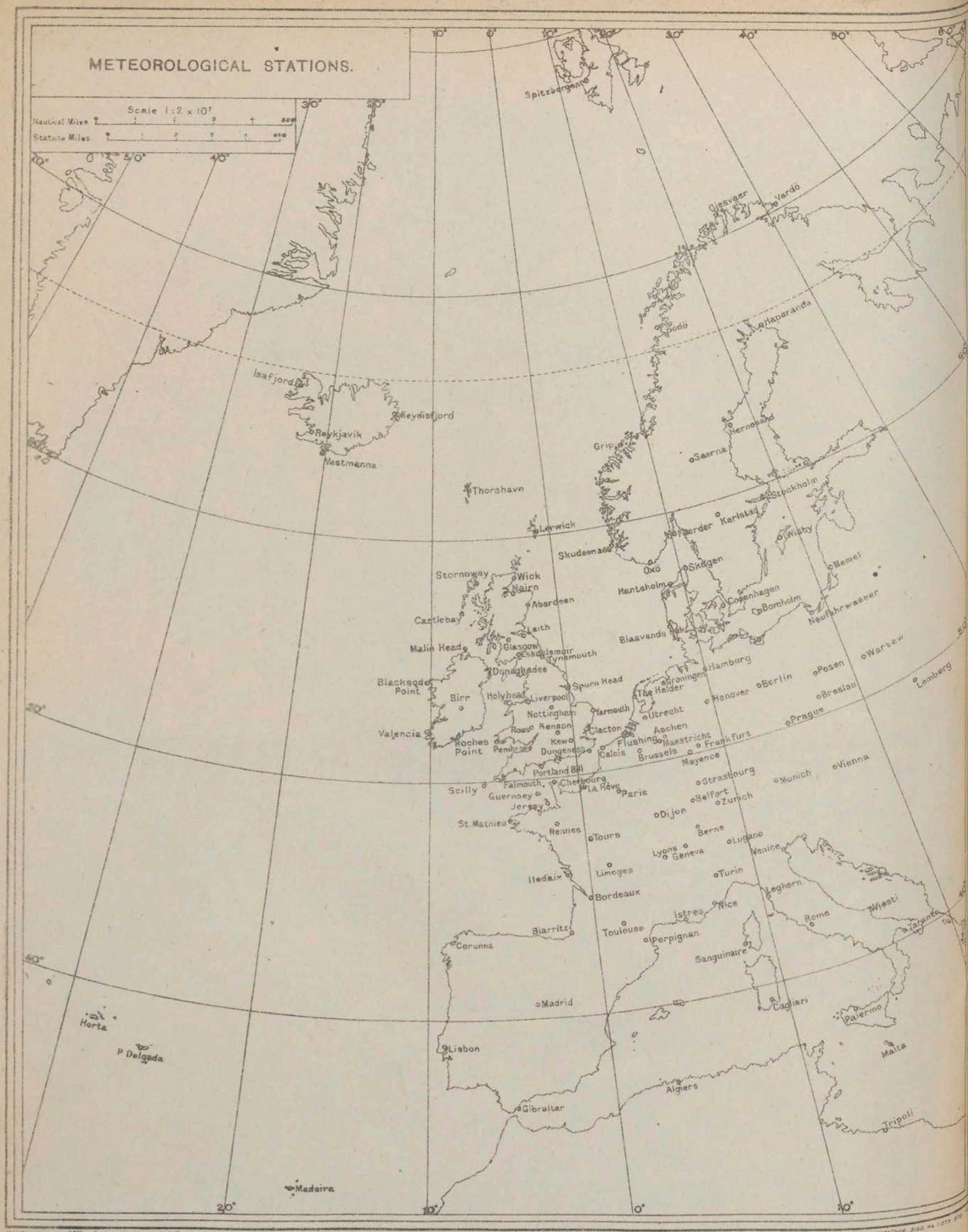
METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

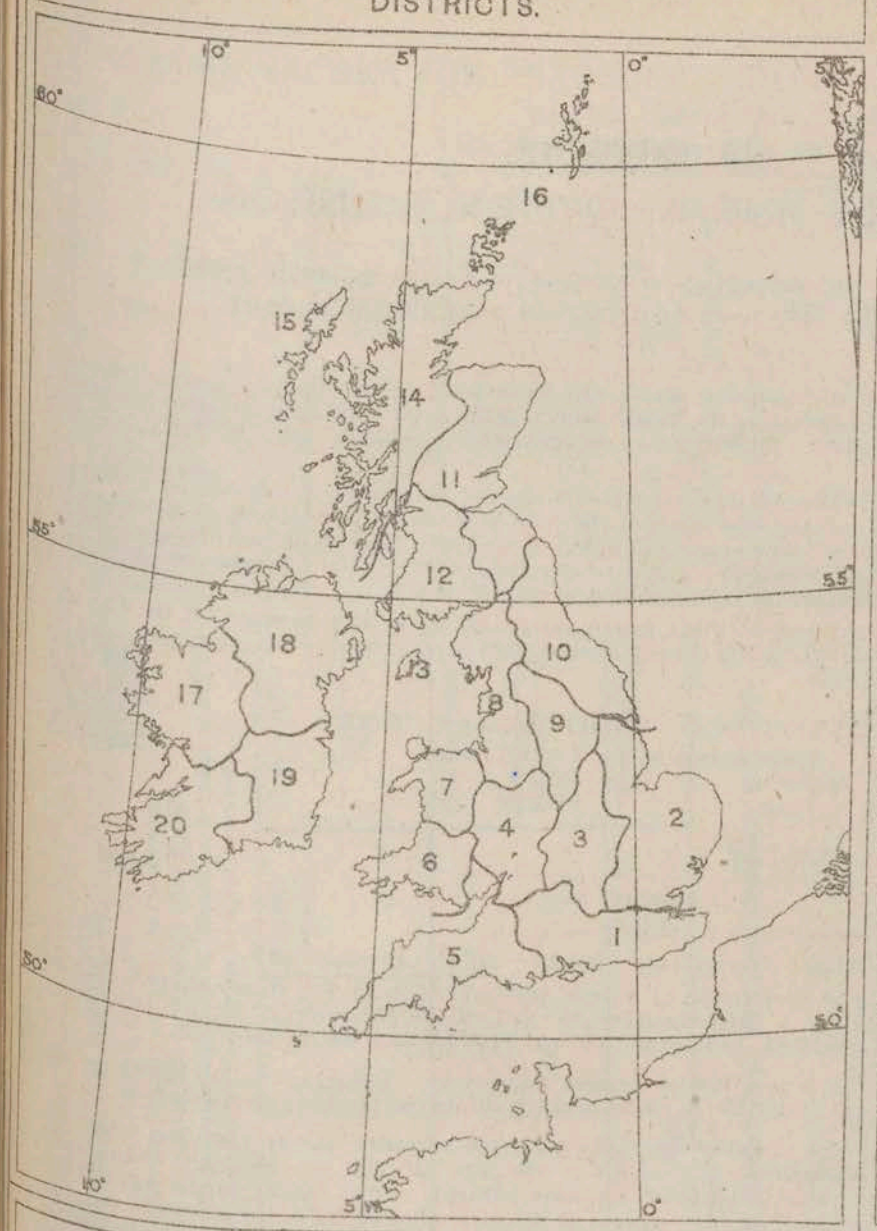
1ST JANUARY TO 31ST MARCH. 1921.

; The barometric change is expressed in half millibars.

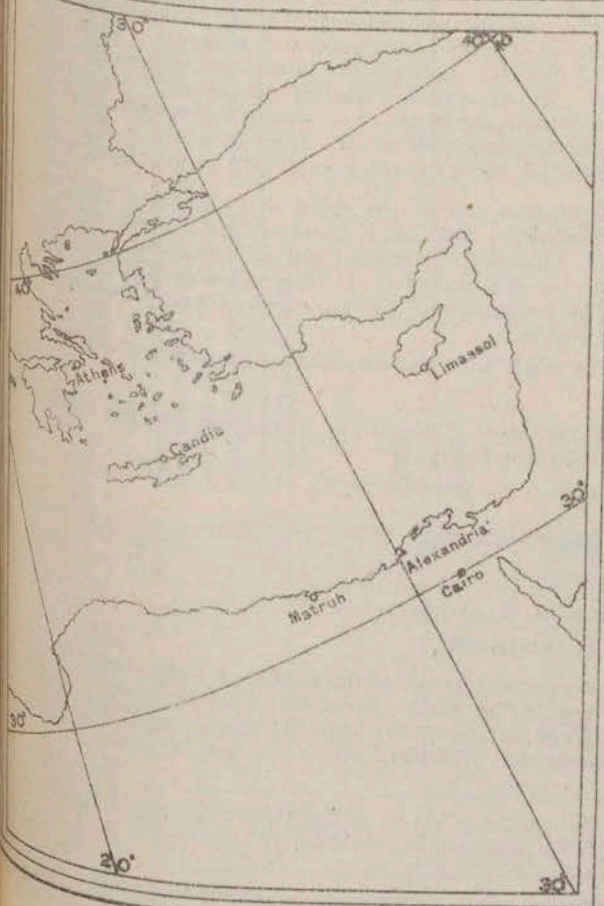


H.M. Stationery Office Press, Kingsway, W.C.2.

DISTRICTS.



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.
e wet air without rain falling
f fog. g gloom.
h hail. l lightning
m mist. p passing showers.

BEAUFORT NOTATION.

q squalls r rain.
rs sleet, *i.e.*, rain and snow.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:—
R = heavy rain. rr = continuous moderate rain. $r_s r_s$ = continuous slight rain.

WEATHER SYMBOLS.

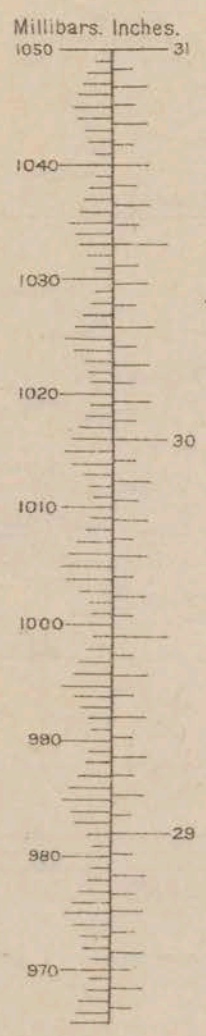
Clear sky	○	Sky ¼ clouded	◔
Sky ½ clouded	◐	Sky ¾ clouded	◕
Overcast sky	◍	Rain falling	●
Snow	✳	Sleet	✳
Fog	≡	Hail	▲
Thunder	⊤	Mist	≡
Lightning	↯	Thunderstorm	⊤↯
Aurora	⌂	Gale	✓
Rime	⚘	Solar halo	⊕
Glazed frost	∽	Lunar halo	⦶
Glazed roads	⚘	Solar corona	⦶
Snow lying	▨	Lunar corona	⦶

* The barometric change is expressed in half millibars.

AIR MINISTRY.

METEOROLOGICAL OFFICE, LONDON.

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



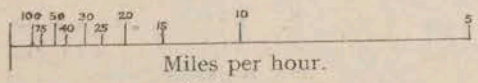
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section. Values in millibars may be converted to mercury inches by the scale given in the margin.

The wind at a height of 1,100–2,000 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 : 2×10^7 Charts.
or 2 mb ,, ,, 1 : 10^7 ,, ,,
or 1 mb ,, ,, 1 : 5×10^6 ,,



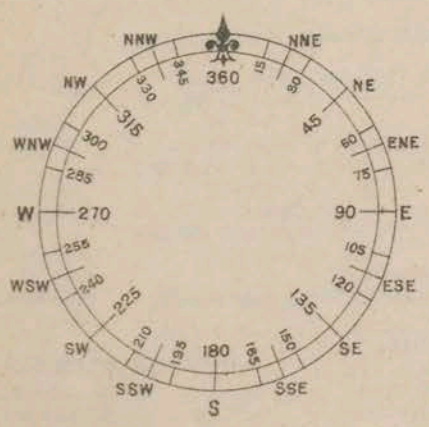
This scale applies under the following conditions :—

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°.

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

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 or humidity 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, heights are given both in feet and kilometres and temperatures in degrees Fahrenheit and Absolute The lines marked "Anti-cyclonic," "Cyclonic," "Summer," and "Winter," indicate the normal fall of temperature with height or lapse rate under the conditions indicated The oblique line marked "Adiabatic" shows the lapse rate 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.



Cloud Types.—In the inset maps of the British Section and in the cloud maps of the Upper Air Supplement the amounts of different types of cloud are shown. The forms, Cumulus (Cu.), Nimbus (Nb.), Strato-cumulus (St.-cu.), Cumulo-nimbus (Cu.-nb), and Stratus (St.) are set out on the chart of Lower Cloud. The forms, Alto-cumulus (A.-cu.), Alto-stratus (A.-st.), Cirrus (Ci.), Cirro-cumulus (Ci.-cu.), and Cirro-stratus (Ci.-st.) are given under Upper Cloud. The proportion of the sky covered with cloud of the different types is shown by numbers (tenths of the sky covered).

For description of Cloud Types reference may be made to "Meteorological Glossary," M.O. 225 ii, and "Cloud Forms," M.O. 233.

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.

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 Upper Air Supplement for heights of 1,000 feet, 2,000 feet, 5,000 feet, 8,000 feet, 10,000 feet, and 15,000 feet The data are usually based on Pilot Balloon ascents.

In the forecasts of upper wind, direction is specified in points and in degrees from true north measured through East 90°, South 180°, West 270° to North 360°. (*See* diagram in margin.)

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

FIRST QUARTER, JANUARY TO MARCH.

(Issued as a Supplement to the Daily Weather Report of April 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.	%
JANUARY.	Lerwick	1007·0	39·6	42·6	35·6	52	1898	? 16	1910	27	108	4·26	—	—
	Stornoway	1008·3	40·3	43·7	34·9	55	1890	11	1881	25	131	5·17	0·90	13
	Castlebay (Barra Isd.)	[1009·0]§	[43·0]§	[45·6]§	[39·3]§	[52]§	[1908, 09, 10, 14]§	[28]§	[1910]§	[24]§	[80]§	[3·16]§	[0·97]§	[15]§
	Eskdalemuir	[1012·7]¶	[34·8]¶	[39·6]‖	[30·4]‖	[51]‖	[1910, 11, 15]‖	[3]‖	[1910]‖	[21]‖	[114]‖	[4·48]‖	[1·03]‖	[14]‖
	Malin Head	1010·3	41·1	[44·4]*	[37·4]*	[55]*	[1898]*	[23]*	[1894]*	[22]*	[66]*	[2·61]*	—	—
	Blacksod Point	1011·9	43·7	[46·5]*	[38·8]*	[56]*	[1890]*	[26]*	[1891, 94]*	[25]*	[129]*	[5·09]*	—	—
	Valencia	1014·9	44·4	48·5	40·2	55	1882,3,4,8,90,98,1901	20	1894	24	139	5·49	1·55	19
	Roche's Point	1016·0	43·2	47·5	39·4	57	1889	20	1894	21	105	4·15	—	—
	Birr Castle	1014·3	39·3	45·2	34·3	57	1898	6	1881, 94	20	72	2·83	1·61	20
	Donaghadee	1013·5	40·5	44·8	36·3	58	1898	14	1881	20	64	2·53	—	—
	Liverpool (Observatory)	1015·4	38·7	43·3	35·3	58	1898	9	1881	17	54	2·12	[1·94]§	[24]§
	Holyhead	1014·8	42·3	45·2	38·4	54	1899, 1915	20	1894	19	74	2·91	[1·42]**	[18]**
	Pembroke (St. Ann's Hd.)	1015·9	42·9	45·9	39·4	53	1899, 1907, 14	19	1881, 94, 1907	20	84	3·31	1·71	21
	Scilly (St. Mary's)	1017·3	45·6	49·1	42·3	57	1899	25	1894	21	76	2·98	1·90	23
	Falmouth	1018·0	43·1	46·9	39·9	55	1888, 90, 96	20	1894	20	107	4·21	1·87	22
	Jersey (St. Aubin's)	1019·0	42·8	46·6	38·6	57	1899	12	1891	20	75	2·94	2·19	26
	Portland Bill	1016·5	43·0	45·5	38·7	[52]†	[1901, 03, 05,† 11, 12, 13, 15]	[23]†	[1907]†	16	57	2·26	—	—
	Dungeness	1016·6	39·4	43·8	34·7	55	1898	11	1893	16	48	1·90	—	—
	Dover	[1015·5]§	[38·1]§	[43·2]§	[34·4]§	[55]§	[1914]§	[17]§	[1910]§	[18]§	[57]§	[2·25]§	[2·10]§	[25]§
	Wick	1008·5	38·0	42·5	33·3	60	1898	−4	1881	21	62	2·46	—	—
	Nairn	1009·5	36·9	42·6	31·8	59	1887	4	1910	18	51	1·99	[1·32]‡	[18]‡
	Aberdeen	1011·1	37·1	42·3	33·4	59	1898	4	1881	18	55	2·18	1·55	21
	Leith	1012·0	39·2	44·0	34·2	58	1898	9	1881	15	42	1·66	—	—
	Tynemouth	1013·5	38·5	43·5	33·6	58	1898	6	1881	15	41	1·63	—	—
	Spurn Head	1014·3	38·3	42·1	34·7	55	1898	13	1881	15	35	1·36	[1·29]**	[16]**
	Yarmouth	1015·9	37·8	41·8	33·7	57	1899	10	1881	18	44	1·74	[1·81]§	[22]§
	Clacton-on-Sea	1016·8	37·7	41·8	33·9	[55]‡	[1914]‡	[18]‡	[1915]‡	14	34	1·34	1·87	23
	Nottingham	1015·7	37·1	42·6	32·6	56	1882, 88, 98, 99 1908, 10, 14	2	1881	19	46	1·81	1·10	14
	LONDON (Kew Obsy.)	1017·5	38·3	43·1	34·6	56	1910	9	1881	16	45	1·76	1·39	17
FEBRUARY.	Lerwick	1002·6	39·0	42·1	34·5	53	1910	17	1895	23	80	3·16	—	—
	Stornoway	1004·0	39·2	44·1	34·2	55	1891	12	1892	22	113	4·46	2·06	22
	Castlebay (Barra Isd.)	[1005·0]§	[42·7]§	[45·8]§	[38·9]§	[52]§	[1914]§	[27]§	[1912]§	[22]§	[91]§	[3·58]§	[1·76]§	[19]§
	Eskdalemuir	[1007·6]¶	[35·4]¶	[41·9]‖	[31·6]‖	[51]‖	[1912]‖	[10]‖	[1912]‖	[22]‖	[183]‖	[7·19]‖	[1·60]‖	[16]‖
	Malin Head	1005·8	40·7	[44·6]*	[37·1]*	[59]*	[1891]*	[20]*	[1895]*	[19]*	[61]*	[2·41]*	—	—
	Blacksod Point	1008·0	42·9	[46·7]*	[38·1]*	[61]*	[1891]*	[23]*	[1912]*	[22]*	[103]*	[4·06]*	—	—
	Valencia	1010·6	43·5	48·8	39·7	58	1891	22	1895	21	132	5·20	2·48	25
	Roche's Point	1011·4	42·5	47·8	39·1	56	1889, 1896	25	1895, 1900, 02, 12	18	94	3·70	—	—
	Birr Castle	1009·7	39·1	46·7	34·4	60	1912	6	1895	17	58	2·29	2·41	25
	Donaghadee	1009·4	40·0	45·6	36·1	57	1897, 1903, 11	16	1895	18	58	2·20	—	—
	Liverpool (Observatory)	1010·7	38·7	44·2	35·6	59	1885, 1898	12	1895	16	42	1·68	[2·66]§	[28]§
	Holyhead	1010·2	41·9	45·4	38·0	59	1891	17	1895	17	63	2·43	[2·50]**	[26]**
	Pembroke (St. Ann's Hd.)	1011·3	42·2	45·6	38·9	56	1903	23	1895	17		2·66	2·70	28
	Scilly (St. Mary's)	1012·8	45·1	48·9	41·7	57	1896, 1899	27	1895	17	65	2·57	3·01	30
	Falmouth	1013·8	42·6	47·1	39·6	58	1899	22	1895	17	94	3·70	2·98	30
	Jersey (St. Aubin's)	1015·2	42·4	47·3	38·7	62	1891	18	1895	17	62	2·44	3·30	33
	Portland Bill	1012·5	42·4	45·6	38·5	[54]†	[1905]†	[24]†	[1912]†	13	49	1·93	—	—
	Dungeness	1012·9	39·5	44·5	35·2	57	1897	11	1889	15	41	1·60	—	—
	Dover	[1014·1]§	[39·4]§	[45·6]§	[35·6]§	[56]§	[1913]§	[17]§	[1912]§	[17]§	[43]§	[1·68]§	[3·16]§	[32]§
	Wick	1003·9	37·8	42·8	32·8	57	1897, 1903	2	1895	19	58	2·27	—	—
	Nairn	1005·0	36·8	43·9	31·3	64	1891	0	1895, 97	17	46	1·80	[2·59]‡	[28]‡
	Aberdeen	1006·7	37·7	43·2	33·4	64	1897	6	1895	17	52	2·05	2·59	28
	Leith	1007·2	38·8	45·2	33·8	59	1882	12	1895, 1912	14	36	1·42	—	—
	Tynemouth	1008·7	38·5	44·5	33·7	60	1898, 99	7	1895	14	35	1·37	—	—
	Spurn Head	1010·0	38·7	43·0	35·2	61	1899	20	1895	14	31	1·21	[2·79]**	[29]**
	Yarmouth	1012·1	38·1	42·9	34·0	60	1912	15	1895	15	38	1·49	[2·84]§	[29]§
	Clacton-on-Sea	1012·9	38·1	42·9	34·4	[58]‡	[1903]‡	[18]‡	[1912]‡	12	32	1·25	2·94	30
	Nottingham	1011·4	37·6	44·6	33·2	61	1899	2	1895	16	39	1·55	2·06	21
	LONDON (Kew Obsy.)	1013·5	38·5	45·0	35·1	62	1899	11	1895	13	39	1·54	2·13	22
MARCH.	Lerwick	1005·7	38·3	42·9	34·4	57	1893	19	1891	25	80	3·14	—	—
	Stornoway	1007·4	38·6	45·3	34·4	57	1894, 1907	13	1881	24	104	4·10	3·39	29
	Castlebay (Barra Isd.)	[1006·7]§	[41·7]§	[45·7]§	[38·5]§	[52]§	[1911]§	[27]§	[1915]§	[22]§	[77]§	[3·02]§	[3·87]§	[33]§
	Eskdalemuir	[1007·2]¶	[35·2]¶	[44·2]‖	[31·9]‖	[55]‖	[1910, 1915]‖	[16]‖	[1913]‖	[21]‖	[133]‖	[5·24]‖	[3·10]‖	[26]‖
	Malin Head	1008·2	40·7	[46·0]*	[37·7]*	[62]*	[1894]*	[25]*	[1906]*	[21]*	[59]*	[2·32]*	—	—
	Blacksod Point	1009·8	42·7	[47·9]*	[38·6]*	[64]*	[1894, 1899]*	[26]*	[1891, 1900, 09]*	[23]*	[104]*	[4·10]*	—	—
	Valencia	1011·8	43·4	50·0	39·9	66	1899	26	1899, 1901	21	115	4·54	3·97	34
	Roche's Point	1012·2	42·5	49·3	39·2	61	1899	27	1890	18	76	3·01	—	—
	Birr Castle	1011·0	38·8	49·2	34·6	66	1894	18	1891	18	61	2·40	3·55	30
	Donaghadee	1010·1	39·9	47·4	36·7	64	1892	25	1892, 1906	19	56	2·19	—	—
	Liverpool (Observatory)	1011·0	39·6	46·9	36·9	65	1884, 94, 1907	21	1886	17	48	1·90	[3·52]§	[30]§
	Holyhead	1010·8	41·9	46·9	38·4	67	1894	27	1881	18	67	2·62	[4·05]**	[35]**
	Pembroke (St. Ann's Hd.)	1011·7	41·9	46·7	39·0	58	1899	26	1888, 1909	17	66	2·58	4·19	36
	Scilly (St. Mary's)	1012·6	45·0	49·9	42·0	59	1893	30	1883, 90, 91	18	62	2·45	4·52	38
	Falmouth	1013·4	42·7	48·7	39·8	60	1914	24	1890	18	88	3·46	4·45	38
	Jersey (St. Aubin's)	1014·1	43·4	49·9	39·9	66	1893, 94, 1903	21	1890	18	64	2·51	4·74	40
	Portland Bill	1011·8	42·7	47·5	39·1	[59]†	[1900]†	[26]†	[1909]†	15	51	2·02	—	—
	Dungeness	1011·8	40·7	47·0	36·4	60	1903	12	1909	15	45	1·76	—	—
	Dover	[1010·8]§	[40·8]§	[47·4]§	[37·0]§	[58]§	[1911, 15]§	[17]§	[1909]§	[20]§	[64]§	[2·50]§	[3·97]§	[34]§
	Wick	1006·7	37·7	44·9	33·8	62	1894	10	1900	21	58	2·27	—	—
	Nairn	1007·4	36·6	46·4	32·6	66	1907	6	1892	19	48	1·87	[3·81]‡	[33]‡
	Aberdeen	1008·3	38·0	45·7	34·4	66	1889, 91, 92	10	1889	20	61	2·41	3·77	32
	Leith	1008·7	39·3	47·7	34·9	68	1884	19	1881, 89	17	44	1·75	—	—
	Tynemouth	1009·4	38·7	46·9	34·4	67	1907	15	1889	16	46	1·81	—	—
	Spurn Head	1009·9	39·5	45·7	36·3	62	1890, 93, 1903	24	1886	15	36	1·40	[3·71]**	[32]**
	Yarmouth	1011·1	39·2	45·8	35·4	65	1906, 14	18	1892	17	44	1·75	[3·77]§	[32]§
	Clacton-on-Sea	1010·9	39·5	46·2	35·8	[60]‡	[1912, 14]‡	[19]‡	[1909]‡	13	37	1·44	4·23	36
	Nottingham	1011·2	38·2	48·3	34·3	68	1884	14	1909	18	42	1·65	3·39	29
	LONDON (Kew Obsy.)	1012·6	39·3	48·7	36·0	67	1896	17	1909	14	43	1·69	3·39	29

* 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.
February, 1916.

(7055—12.) Wt. 47589—8458. 3000. 4/16. D & S. G. 3.

Eskdale Calshot | Rain day 10am. max. temp 51° | Stornoway Portland | 16 in. warmer. Spring min temp 47°

‡ The barometric change is expressed in half millibars.

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 FEBRUARY, 1921.

The beginning of February was marked by a change from the unusually mild weather which had prevailed in January to colder conditions with seasonable temperature which was maintained generally until near the middle of the month. On the 3rd, under the influence of a small area of high pressure over S.E.England, fog persisted most of the day at many inland stations; in London it was very dark and at Kew Observatory the 1 pm reading was only 33°.

During the third week there was considerable range of temperature, from slight frost at night to maxima above 50° but the latter were surpassed in the following week when readings of 60°, 61° and 62° were taken at a few southern and midland stations. These values were in some cases above the extremes for February 1920 but in London, at least, did not equal those of 10th February 1899.

Abundant sunshine was experienced on several days in the latter part of the month. Yarmouth enjoyed over nine hours three times in one week.

A little sleet or slight snow fell at times in Scotland and in some eastern parts of England between the 6th and 10th but reference to the table on page 3 will show that there was remarkably little precipitation of any sort in many districts. At Nottingham and Kew about three fourths of the total for the month fell on one day, the 25th.

UPPER WINDS.

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

Height.	Station.	No. of Obs.	Under 10 m.p.h.	10–25 m.p.h.	25–45 m.p.h.	45–70 m.p.h.	Above 70 m.p.h.
ft.							
2,000	Valencia.	40	8	23	9	0	0
5,000		13	2	9	2	0	0
10,000		8	0	4	3	1	0
15,000		6	2	1	3	0	0
2,000	Lympne.	54	5	43	6	0	0
5,000		23	3	19	1	0	0
10,000		5	4	1	0	0	0
15,000		0	0	0	0	0	0
2,000	Eskdalemuir.	21	2	18	1	0	0
5,000		16	0	11	5	0	0
10,000		10	2	7	1	0	0
15,000		3	0	2	1	0	0

SURFACE VISIBILITY. [No. of observations within fixed limits of telegraphic code (see p. 3).]

STATIONS.	1H.										7H.										13H.										18H.									
	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
Lerwick	0	0	1	0	11	11	5	0	0	0	0	1	0	2	2	8	13	2	0	0	0	0	0	0	1	4	12	11	0	0	0	0	0	0	3	9	15	1	0	0
Stornoway	0	0	0	0	2	6	17	3	0	0	0	0	0	1	1	7	17	2	0	0	0	0	0	0	.	3	16	9	0	0	0	0	0	0	1	5	14	8	0	0
Renfrew	0	0	4	1	3	5	9	6	0	0	0	1	7	4	3	4	3	4	2	0	1	0	3	3	6	3	4	3	5	0	0	0	2	6	8	1	3	8	0	0
Eskdalemuir	0	0	1	1	2	4	15	4	1	0	0	0	1	1	0	3	13	9	1	0	0	0	0	2	2	3	9	12	0	0	0	0	0	1	3	8	11	5	0	0
Malin Head	0	0	0	0	1	1	12	4	10	0	0	0	0	0	1	2	10	7	8	0	0	0	1	1	0	1	10	7	7	1	0	0	0	0	1	0	8	11	8	0
Blacksod Point																																								
Valencia	0	0	0	0	2	3	13	10	0	0	0	0	0	2	2	3	8	12	1	0	0	0	0	0	0	1	9	12	6	0	0	0	0	0	1	3	8	10	6	0
Roche's Point	*	*	*	*	*	*	*	*	*	*	0	0	0	0	1	0	9	5	13	0	0	0	0	1	0	0	2	6	19	0	0	0	0	0	0	0	6	4	18	0
Valdonnel	*	*	*	*	*	*	*	*	*	*	0	0	0	0	5	5	5	12	1	0	0	0	0	0	3	6	5	9	5	0	0	0	1	0	3	8	7	9	0	0
... ...	0	0	1	2	10	8	5	2	0	0	0	0	0	1	7	6	6	4	4	0	0	0	0	0	0	6	6	8	8	0	0	0	1	0	5	8	5	1	8	0
Manchester (Alexandra Park)	*	*	*	*	*	*	*	*	*	*	3	1	1	9	10	4	0	0	0	0	1	0	1	3	14	3	6	0	0	0	1	0	6	12	8	1	0	0	0	0
Holyhead	0	0	0	0	0	1	7	18	2	0	0	0	0	1	1	0	6	14	6	0	0	0	0	0	0	1	2	16	9	0	0	0	0	0	1	2	5	12	8	0
Pembroke (St. Ann's Head)	0	0	0	0	0	0	5	6	9	8	0	0	0	0	0	0	4	8	14	2	0	0	0	0	0	2	6	8	6	6	0	0	0	0	0	1	8	4	8	7
Ross-on-Wye	*	*	*	*	*	*	*	*	*	*	0	0	1	6	2	3	5	2	6	3	0	0	0	1	1	5	5	4	5	7	0	0	0	1	6	5	5	2	4	5
Filly	0	0	0	0	0	0	3	13	10	2	0	0	0	0	0	0	3	18	5	2	0	0	0	0	1	0	6	10	10	1	0	0	0	0	1	0	5	13	7	2
Falmouth																																								
Cattewater	0	0	0	1	0	5	8	7	7	0	0	0	1	0	1	3	7	14	2	0	0	0	0	0	1	3	9	12	3	0	0	0	0	1	8	9	2	2	6	0
Calshot	*	*	*	*	*	*	*	*	*	*	0	1	0	0	0	4	11	9	3	0	0	0	0	0	0	0	10	13	5	0	0	0	0	0	1	4	11	7	5	0
Lympne	0	0	0	1	3	5	8	6	5	0	0	0	0	2	4	9	6	2	5	0	0	0	1	0	2	5	9	4	7	0	0	0	0	1	2	6	12	2	5	0
... ...																																								
Aberdeen																																								
Lynemouth	*	*	*	*	*	*	*	*	*	*	2	5	0	2	1	5	6	7	0	0	0	0	1	6	0	5	3	12	1	0	1	2	2	6	1	6	6	3	1	0
Flowden	0	1	3	0	5	5	9	3	2	0	0	2	2	4	4	2	11	2	1	0	0	1	0	5	6	3	7	3	3	0	0	0	1	7	9	3	4	3	1	0
Cranwell	0	0	1	1	5	15	4	1	1	0	1	2	1	4	5	5	9	1	0	0	0	0	1	2	2	11	7	5	0	0	0	1	0	4	0	5	13	5	0	0
Felixstowe	0	2	2	0	6	13	3	1	1	0	0	2	3	0	7	11	3	1	1	0	0	0	1	0	3	11	6	3	4	0	0	0	1	2	4	11	6	2	2	0
Yarmouth	0	0	0	0	3	11	11	3	0	0	0	1	0	1	4	7	8	5	2	0	0	0	0	0	1	5	11	11	0	0	0	0	0	0	2	8	14	4	0	0
Lowestoft																																								
Orfordness	0	0	2	0	5	0	7	7	2	6	1	0	0	0	7	0	10	6	1	3	0	0	2	0	4	2	9	7	0	4	0	0	0	2	8	0	7	6	0	5
Isle of Grain	*	*	*	*	*	*	*	*	*	*	0	0	1	0	1	7	7	12	0	0	0	0	0	0	1	1	7	18	1	0	0	0	0	3	1	4	9	11	0	0
Benson	*	*	*	*	*	*	*	*	*	*	1	0	2	3	4	9	7	2	0	0	0	0	0	0	1	9	9	6	3	0	0	0	0	1	2	9	7	5	4	0
S. Farnboro'	*	*	*	*	*	*	*	*	*	*	0	1	1	1	6	11	6	1	1	0	0	0	1	0	2	11	8	5	1	0	0	0	0	0	1	8	10	6	3	0
... ...	*	*	*	*	*	*	*	*	*	*	0	3	4	1	4	8	4	4	0	0	0	1	1	3	1	4	8	10	0	0	0	1	0	1	5	11	7	3	0	0
London (Kew Obsy.)																																								
Croydon	*	*	*	*	*	*	*	*	*	*	1	2	4	5	11	5	0	0	0	0	0	2	1	5	7	10	2	1	0	0	1	1	1	5	12	7	1	0	0	0
... ...	0	1	3	1	12	3	6	2	0	0	0	2	1	7	8	4	6	0	0	0	0	0	1	4	8	7	8	0	0	0	0	0	2	10	9	5	2	0	0	0

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

SUMMARY OF RECORDS OF TEMPERATURE, SUNSHINE,

Equivalents of Temperature. A°.	F°.
263·6	15
268·0	29
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. 32° or below	33° – 41°	42° – 50°	51° – 59°	60° – 68°	Minimum. 23° or below	24° – 32°	33° – 41°	42° – 50°	Extremes:—Warmest and Coldest Days. Highest Maximum. °F	Date.	Lowest Maximum. °F	Date.	Nights. Highest Minimum. °F	Date.	Lowest Minimum. °F	Date.	Number of Ground Frosts.	Low Cloud. Number of observations within fixed limits. 1h. Below 1,500 ft.	1,500–5,000 ft.	5,000–10,000 ft.	7h. Below 1,500 ft.	1,500–5,000 ft.	5,000–10,000 ft.	13h. Below 1,500 ft.	1,500–5,000 ft.	5,000–10,000 ft.	18h. Below 1,500 ft.	1,500–5,000 ft.	5,000–10,000 ft.
Aberdeen ...	0	5	18	5	0	0	3	23	2	59	28	39	1, 8	47	28	30	9	11	*	*	*	1	22	0	4	20	1	5	16	2
Leith	0	6	17	5	0	0	7	18	3	56	16	39	8	46	17	30	21, 22	13	*	*	*	*	*	*	*	*	*	*	*	*
Renfrew ...	0	7	15	6	0	0	12	9	7	53	16	38	10	46	17	25	11	12	2	17	0	6	17	0	7	17	0	5	15	3
Eskdalemuir ...	0	11	16	1	0	5	12	10	1	52	21	34	20	42	17	19	11	14	0	19	0	0	22	0	0	25	1	0	21	0
Tynemouth ...	0	6	19	3	0	0	3	22	3	54	16, 23	38	7, 8, 10	45	16, 17	25	21	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	0	6	16	6	0	3	12	12	1	56	16, 24	34	3	42	16	22	3	17	4	19	0	5	22	0	3	24	0	2	26	4
Cranwell ...	0	5	17	6	0	0	11	15	2	59	29	33	4	45	16	24	2, 14	11	5	15	3	5	20	1	4	19	2	3	19	1
Yarmouth ...	0	3	23	2	0	0	5	22	1	53	16, 17	38	6, 7	46	17	30	4, 5	6	*	*	*	*	*	*	*	*	*	*	*	*
Nottingham ...	0	8	16	3	1	0	9	17	2	60	24	38	6, 7	43	16, 17	26	4	15	*	*	*	*	*	*	*	*	*	*	*	*
I. of Grain ...	0	4	14	10	0	1	6	21	0	58	24	38	7	41	16	21	1	18	*	*	*	3	20	1	1	19	0	5	14	2
Benson... ...	0	4	16	8	0	0	15	13	0	59	24	38	7	41	25	25	21, 22	17	*	*	*	*	*	*	*	*	*	*	*	*
London ... (Kew Obsy.)	0	3	20	5	0	0	5	21	2	59	23	37	3	42	17, 28	26	4	15	*	*	*	3	13	0	3	16	2	5	14	2
Croydon ...	0	4	17	5	2	0	13	14	1	60	23, 24	35	8	45	16	27	3	12	7	11	0	11	7	0	3	17	1	5	15	0
Manchester ...	0	6	17	5	0	1	10	14	3	57	23	35	9	45	25	20	10	13	*	*	*	11	12	0	6	15	0	6	19	0
Bidston ...	0	6	20	2	0	0	1	21	6	54	23	38	7	45	16	32	22	12	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead ...	0	2	20	6	0	0	1	17	10	57	21	38	7	46	16, 17, 28	32	21	5	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	0	0	18	10	0	0	1	18	9	55	23, 28	42	11	46	25	31	10	7	*	*	*	*	*	*	*	*	*	2	17	1
Calshot ...	0	2	23	3	0	0	2	23	3	55	22	38	7	43	17	31	27, 28	7	2	14	1	2	20	0	0	23	1			
Lympne ...																														
Dublin (Phœnix Park)	0	2	17	9	0	0	5	14	10	52	16, 22	41	7, 16	46	13	28	21	11	*	*	*	*	*	*	*	*	*	*	*	*
Baldonnel ...	0	2	21	5	0	0	5	15	8	52	21, 22, 23, 24	40	20	45	16	26	10	10	7	15	0	11	14	0	4	23	0	11	14	0
Birr Castle ...	0	2	20	6	0	0	10	13	5	52	23	39	10	44	4, 15	25	11	11	*	*	*	*	*	*	*	*	*	*	*	*
Valencia ...	0	0	22	6	0	0	2	8	18	53	3	45	20	48	16	30	11, 12	3	*	*	*	4	19	2	4	23	0	2	25	1

UPPER AIR TEMPERATURE.

Pressure.	Normal Height.	Normal Temperature.	Baldonnel. Mean.	No. of Reports.	Shoeburyness. Mean.	No. of Reports.	S. Farnboro'. Mean.	No. of Reports.	Andover. Mean.	No. of Reports.
mb.	feet.	°F.	°F.		°F.		°F.		°F.	
950	1780	33	39	13	38	5	44	8	39	18
850	4650	26	32	13	28	5	37	8	33	18
750	7830	17	25	13	21	2	33	7	25	18
650	11440	7	14	13	-	0	19	6	12	18
550	15560	-7	0	5	-	0	-	0	1	9

MINIMUM SURFACE HUMIDITY.

Station.	No. of Days with Minima between Fixed Limits. 95–100 %	90–94 %	80–89 %	70–79 %	60–69 %	50–59 %	40–49 %	30–39 %	20–29 %
Renfrew ...	0	2	16	10	6	0	0	0	0
Eskdalemuir ...	0	0	2	5	12	6	1	1	0
Valencia ...	0	0	1	7	18	2	0	0	0
Falmouth ...	0	0	2	8	10	8	0	0	0
Aberdeen ...	0	0	3	6	9	8	2	0	0
Leith	0	0	4	9	11	3	1	1	0
Benson ...	0	0	5	7	12	3	0	0	0
London ... (Kew Obsy.)	0	1	1	9	15	2	0		

* A minimum humidity of 19% occurred on 21st

RAINFALL, HUMIDITY AND LOW CLOUD. FEBRUARY, 1921.

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.	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.
Aberdeen ...	6	18	1	3	0	7·9	9	1335	-52	45	-28	17	6	5	0	0	0	687	-61	14	-38	0	1
Leith	*	*	*	*	*	*	*	*	*	*	*	21	4	3	0	0	0	701	+109	13	-23	0	0
Renfrew ...	15	8	4	1	0	6·3	25	*	*	35	*	21	3	1	3	0	0	*	*	31	*	0	0
Eskdalemuir ...	12	6	7	3	0	8·3	22	1102	*	61	*	21	2	5	0	0	0	?1592	*	21	*	0	2
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	23	4	1	0	0	0	681	+60	5	-30	0	1
Howden ...	9	9	5	5	0	8·2	26	*	*	68	*	20	7	1	0	0	0	*	*	5	*	0	0
Cranwell ...	9	5	9	4	1	9·7	26	1425	*	84	*	20	6	2	0	0	0	570	*	9	*	0	1
Yarmouth ...	8	7	6	4	3	9·8	26	1704	*	96	*	19	8	1	0	0	0	508	-114	7	-31	0	1
Nottingham ...	10	11	5	2	0	8·2	26	1058	-267	50	-8	22	5	0	1	0	0	592	-6	9	-30	1	0
I. of Grain ...	7	9	6	4	2	9·3	26	*	*	83	*	22	5	0	1	0	0	*	*	14	*	0	0
Benson... ...	*	*	*	*	*	*	*	*	*	*	*	24	2	2	0	0	0	593	*	7	*	0	1
London (Kew Obsy.) ...	9	11	6	2	0	8·3	26	1264	-111	54	-6	26	1	1	0	0	0	592	-14	5	-34	0	0
Croydon ...	*	*	*	*	*	*	*	*	*	*	*	22	5	1	0	0	0	*	*	4	*	0	3
Manchester ...	*	*	*	*	*	*	*	*	*	*	*	24	0	4	0	0	0	*	*	9	*	0	0
Bidston ...	10	7	8	3	0	8·7	26	1241	*	68	*	23	4	1	0	0	0	801	+92	4	-38	0	0
Holyhead ...	10	8	1	8	1	9·4	26	1221	*	82	*	23	3	1	1	0	0	1243	+355	10	-52	0	0
Falmouth ...	6	14	2	5	1	9·7	26	1500	-259	72	-11	23	2	2	1	0	0	1110	+3	15	-75	0	0
Calshot... ...	5	11	6	4	2	9·5	26	1587	*	87	*	24	2	2	0	0	0	651	*	7	*	0	0
Lympne ...									*		*								*		*		
Dublin ... (Phœnix Park) ...	12	8	5	2	1	9·1	25	1303	-204	54	-19	19	5	2	2	0	0	801	+96	22	-24	0	0
Baldonnel ...	12	8	5	3	0	8·0	25	1145	*	53	*	23	1	3	1	0	0	807	*	16	*	0	0
Birr Castle ...	14	8	4	2	0	6·7	1	1146	-197	41	-26	19	3	6	0	0	0	860	+3	24	-34	0	0
Valencia ...	13	8	2	5	0	8·0	11	1183	-262	54	-15	22	0	2	1	2	1	1596	+182	77	-55	0	0

TELEGRAPHIC CODE.

Figure	Distance of Visibility (Yards).
0	less than 50
1	" " 200
2	" " 1,100
3	" " 2,200
4	" " 4,400
5	" " 7,700
6	" " 13,200
7	" " 22,000
8	beyond 22,000
9	exceptional.

REMARKS ON CHART OF ISOPLETHS FOR FEBRUARY 1921. (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 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.

Pressure was generally high in the region of the British Isles during February and rose well above 1040 mb about 9th and 10th and again at the close of the month when it increased to 1048 mb at Valencia.

Depressions frequently passed near Iceland but in these regions also barometer readings were higher than during January: the diagram on page 4 shews none below 988 mb.

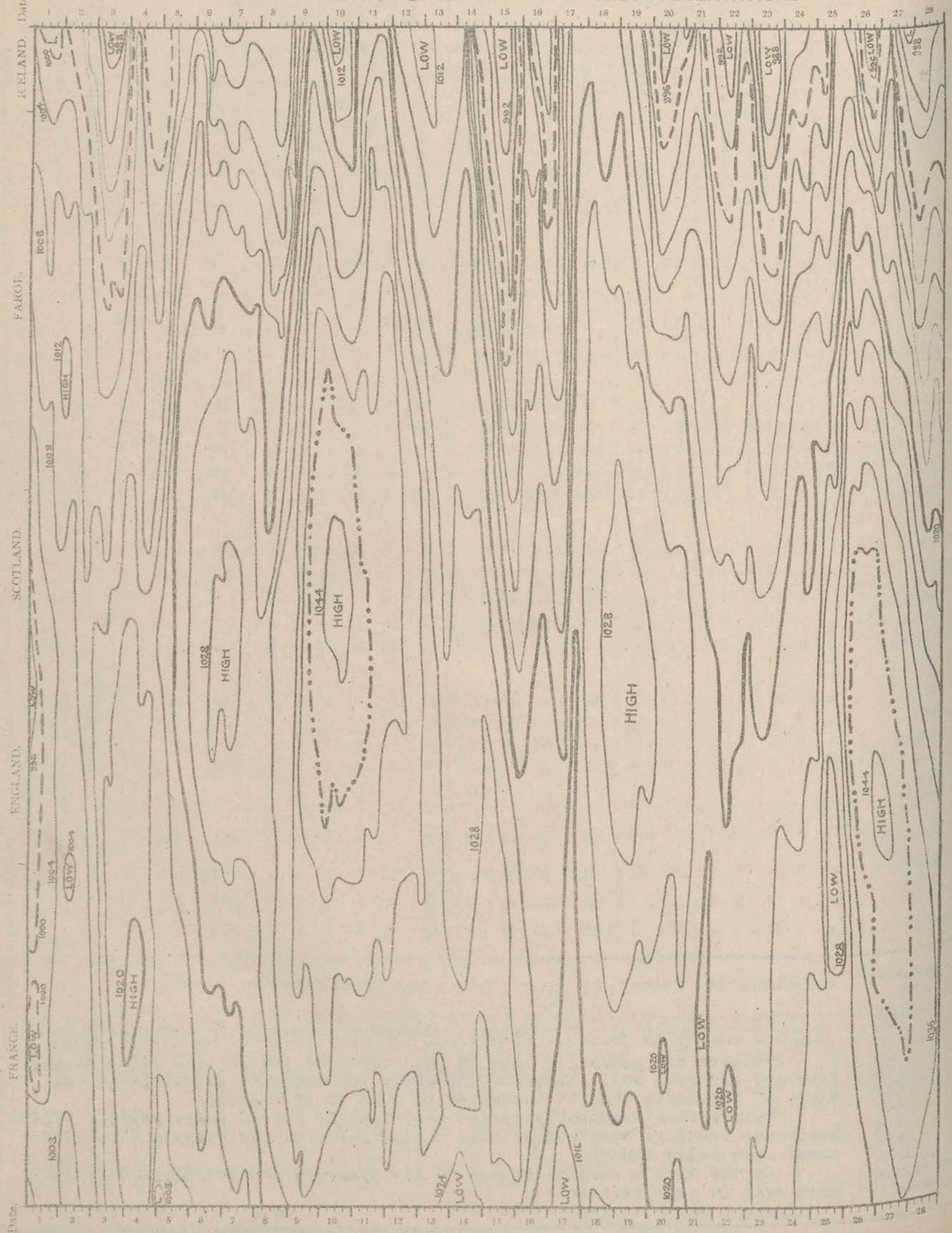
On the 25th a shallow trough of low pressure crossed England causing much rain in some districts.

1,020 mb. 1,040 mb. — — — — — = 1,000 mb. 980 mb. —o—o—o— = 960 mb.

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

PRESSURE: ICELAND TO GULF OF LYONS ..... FEBRUARY 1921

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



* For explanation and notes on diagram see page 3.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21.921. Tuesday, 1st February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
18H. G.M.T. 31st Jan.														
Renfrew	989.9	+1	NE	3	or2-3f	42	97	3	1.250	Nb	10	-	-	*
Eskdalemuir	988.3	0	NNE	4	or	41	97	6	1.250	Nb	10	-	-	*
Valencia (Cahirc'n)	990.9	+3	W	3	c	47	75	8	2.000	St.Cu	5	A.St	3	5
Baldonnel	989.2	+2	WSW	3	o	45	75	8	3.000	Cu	3	A.Cu	5	*
Manchester (Alex. Pk.)	986.9	0	S	2	or₀2f	42	85	4	1.250	Nb	8	A.St	2	*
Ross on Wye	989.1	+2	WSW	2	om	42	92	5	3.000	CuNb	1	Ci.St	8	*
Falmouth	990.6	+1	SSW	1	oh	42	85	8	-	CuNb	9	-	-	*
Calshot (Hants)	991.0	+3	SSW	3	o	43	86	8	3.000	St.Cu	9	-	-	2
Lympne (Folkestone)	992.3	+2	SW	6	or₀q	43	85	8	1.250	Nb	9	-	-	*
Aberdeen	993.4	0	NE	2	oife	43	85	6	2000	St	1	Ci.St	6	2
Howden	987.1	-2	SSE	3	oif	46	85	5	1.250	St	10	-	-	*
Cranwell (Lincs)	987.8	0	S	2	c	45	85	7	1.250	St.Cu	8	-	-	*
Felixstowe	992.0	0	S	5	c	47	85	7	4200	Cu	7	-	-	4
Shoeburyness	990.8	0	SW	4	bc	47	75	8	3.000	St.Cu	4	A.Cu	2	*
Benson	989.4	+3	SW	3	or₀2f	41	92	6	-	Nb	10	-	-	*
S. Farnborough	990.8	+4	SSW	2	o	41	97	6	1.250	St	9	-	-	*
London (Kew Obsy.)	990.7	+4	SW	4	or₀	43	85	5	2,000	Nb	7	A.St	2	*
Croydon	991.4	+2	S	4	oif r₀	41	92	6	750	St	8	A.St	1	*
1H. G.M.T. of 1st Feb.														
Renfrew	997.5	+4	NE	4	c	41	85	6	2,000	St.Cu	8	-	-	*
Eskdalemuir	994.4	+3	NE	4	or 2-3f	40	92	5	2000	Nb	10	-	-	*
Valencia (Cahirc'n)	1002.2	+8	WNW	6	bc	44	*	*	*	*	*	*	*	6
Baldonnel	995.4	+4	W	4	or₀2-3f	42	92	4	1250	St	10	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	996.8	+4	SW	1	b	38	92	8	-	Nb	1	-	-	*
Calshot (Hants)	996.7	+3	-	0	b2f	40	97	5	-	-	-	-	-	o
Lympne (Folkestone)	997.6	+3	W	1	cr	37	92	8	1250	Nb	8	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	994.3	+4	SSW	2	bc	35	97	5	3,000	St	4	-	-	*
Cranwell (Lincs)	995.0	+4	SW	1	b	33	97	5	-	-	-	-	-	*
Felixstowe	998.3	+3	SSW	2	bc1f	40	92	6	3,000	St.Cu	4	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	?	?	*	*	*	39	*	*	*	*	*	*	*	*
Croydon	997.3	+3	SSW	3	bife	37	92	7	3,000	St.Cu	1	Ci.St	2	*

Stations	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
18H. G.M.T. of 31st Jan.														
Renfrew	991.9	+4	NE	4	od	43	85	5	2000	Nb	10	-	-	*
Eskdalemuir	989.4	+3	NE	5	or2f	41	92	5	2000	Nb	10	-	-	*
Valencia (Cahirc'n)	994.2	+5	N	4	oif	44	75	7	2000	St.Cu	4	A.St	6	5
Baldonnel	991.6	+3	WSW	2	o2f	35	92	4	750	St	10	-	-	*
Manchester (Alex. Pk.)	991.7	+8	SW	3	orm	33	85	4	2.000	Nb	10	-	-	*
Ross on Wye	991.8	+3	SSW	1	b	38	85	6	4200	Cu	2	A.St	1	*
Falmouth	993.2	+5	SSW	1	b2f	39	85	5	-	St.Cu	1	A.Cu	1	*
Calshot (Hants)	993.4	+3	SW	3	o	43	85	8	2.000	St	8	A.St	1	2
Lympne (Folkestone)	994.3	+3	SSE	2	b	37	92	8	2000	CuNb	3	-	-	*
Aberdeen	994.9	+2	NE	5	orq	41	97	6	2000	Nb	10	-	-	3
Howden	988.3	+2	SSW	4	o	39	92	5	2000	St	6	A.St	4	*
Cranwell (Lincs)	991.2	+4	SW	1	bc	38	97	5	1.250	St.Cu	4	A.Cu	2	*
Felixstowe	995.1	+4	SSW	3	b	41	92	7	3.000	St.Cu	2	-	-	3
Shoeburyness	993.5	+3	W	1	b	40	85	6	4.200	Cu	2	-	-	*
Benson	992.2	+2	SSW	2	b	39	92	8	-	-	-	-	-	*
S. Farnborough	992.9	+2	SSW	3	bc	40	92	6	1.250	CuNb	5	-	-	*
London (Kew Obsy.)	993.0	+2	SW	2	bc	41	85	6	3.000	Nb	4	-	-	*
Croydon	994.0	+4	SSW	3	bc2f	39	85	5	3.000	St	4	-	-	*
7H. G.M.T. of 1st Feb.														
Renfrew	1001.4	+4	NNE	2	o	39	85	8	4,200	St.Cu	5	A.St	4	*
Eskdalemuir	999.0	+5	NNE	5	or₀	36	97	6	2,000	Nb	10	-	-	*
Valencia (Cahirc'n)	1003.9	+3	NNE	2	b	43	85	8	3,000	St	1	-	-	*
Baldonnel	1001.4	+4	W	2	o	39	85	5	4,200	St.Cu	10	-	-	*
Manchester (Alex. Pk.)	997.4	+4	SE	3	o2f	37	97	4	1,250	Nb	10	-	-	*
Ross on Wye	998.2	+4	S	1	od	37	92	6	1,250	Nb	10	-	-	*
Falmouth	999.3	+2	NW	4	o	44	85	7	-	Nb	10	-	-	*
Calshot (Hants)	999.2	+3	-	0	o2f	37	97	5	3,000	St.Cu	3	A.St	7	o
Lympne (Folkestone)	999.5	+3	-	0	bc	38	85	8	2000	CuNb	5	-	-	*
Aberdeen	1002.1	+3	N	4	oif	38	92	6	3,000	St.Cu	10	-	-	3
Howden	998.2	+3	SE	1	osfe	26	97	1	750	St	10	-	-	*
Cranwell (Lincs)	999.1	+4	-	0	b	32	97	5	-	-	-	A.St	1	*
Felixstowe	1000.5	+2	-	0	b	39	92	7	5,700	St.Cu	1	Ci	1	2
Shoeburyness	999.5	+3	-	0	bc	36	85	7	3,000	St.Cu	2	A.Cu	4	*
Benson	998.1	+2	SSW	1	bc	29	97	8	-	St.Cu	5	-	-	*
S. Farnborough	999.2	+2	-	0	bcofexl	29	97	2	1,250	St	2	Ci.St	3	*
London (M.O. at 1H.)	999.6	+3	-	0	cfx	32	97	0	1,250	St	7	-	-	*
Croydon	1000.1	+4	S	3	bcx2f	34	92	5	-	-	-	Ci	5	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	Barom. at M.S.L. mb. (18H. G.M.T. of 31st Jan.)	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	Barometer at M.S.L. mb. (7H. G.M.T. of 1st Feb.)	‡ Change in 3 hours	Temp. °F.	Temp. Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	† Rainfall mm. (24 hours ended 7H. 1st Feb.)	Max. °F.	Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (31st Jan.)
Lerwick	1001.5	38	ENE	5	cq	1006.9	+2	35	-4	NE	5	-	o	4	1	37	32	cq	cq	cm.bcp	*
Stornoway	998.6	42	ENE	6	c	1006.2	+3	37	-4	NE	3	-	c	3	-	43	37	c.c	o.c	c.bc.c	0.0
Castlebay (Barrals)	995.8	43	NE	3	c	1005.2	+5	40	-2	N	2	-	bc	3	-	44	39	o	o.c	c.bc	0.3
Malin Head	992.0	42	NNE	4	omrq	1001.9	+2	42	+2	NE	4	-	o	3	11	42	39	op	omr	c	0.0
Blacksod Point	993.3	42	N	2	bc	1002.7	+3	43	0	N	2	-	bc	2	4	44	39	cp	cp	bc.bc	*
Roche's Point	992.8	41	NW	3	o	1002.6	+6	41	+4	NW	4	-	b	3	0.4	47	35	b.o	op.oq	ob	*
Birr Castle	992.8	37	W	2	o	1002.8	*	39	+10	W	1	-	o	*	1	42	29	c.bc	c.o	op.o	3.9
Donaghadee	989.0	42	N	2	om	1001.6	+2	44	+5	N	5	-	cq	5	4	46	39	cmp	omr	omoq	*
Liverpool (Bidston)	988.9	39	WSW	5	r	997.2	+5	38	-4	-	0	-	om	1	12	42	36	or	or	or m	0.0
Holyhead	989.2	43	NW	5	cpu	994.8	+3	45	+3	NE	5	-	or₀ m	4	3	45	40	occp	occp	orpm.orpm	0.0
Pembroke (St. Ann's Head)	992.1	43	SW	3	bcv	998.3	+1	43	-1	NW	3	-	b	4	2	47	41	cv	bv	bcv.cp	5.7
Scilly (St. Mary's)	993.4	44	-	0	bc	1000.3	+3	46	+2	NNW	5	NW	o	6	6	50	40	cp.o	cpc.bc	bc.cpq.cpq	2.4
Jersey (St. Aubin)	992.8	45	S	4	b	999.5	+1	39	-3	W	2	-	o	2	1	49	35	or.o.bc	bc.b	bw.o	*
Portland Bill	993.1	46	WSW	5	bcq	998.5	+4	43	-3	W	3	-	cp	5	3	47	40	orcqp	cp.bc	bc.cp	*
Dungeness	993.9	43	WNW	3	bc	999.3	+2	39	-7	-	0	-	b	3	2	42	37	cqr	cqpbc	cp.bc.b	*
Wick	997.7	40	NE	7	omrq	1003.9	+2	39	-4	N	6	-	bcq	4	1	44	36	bcom	ompq	opcq.cbqb	*
Nairn	996.4	41	ENE	4	c	1004.3	*	39	+5	NE	4	-	oq	4	1	41	34	cbocq	cprdq	q.cq	0.7
Leith	991.7	44	NE	5	o	999.5	+2	40	-3	NE	6	-	o	4	2	45	40	or o	rq.o	rq.o	*
Tynemouth	989.6	45	SE	2	oif	996.8	+3	38	-6	SW	2	-	c3f	3	1	46	37	omr	omd.	om.om	*
Spurn Head	988.9	41	SW	4	bc	998.3	+4	34	-9	SSW	3	-	bx	3	0.1	47	33	c	c	c.bf.bx	*
Yarmouth (Gor Leston)	993.2	44	SW	3	bc	999.8	+1	36	-9	WSW	1	-	bcm	1	-	48	35	cq	cq.b.bc	b.bcx	2.6
Clacton-on-Sea	993.5	42	SSW	4	bc	999.4	+3	38	-7	W	2	-	bc	2	*	47	38	oq.c	c.bc	bc.b.bc	3.2
Nottingham	991.0	40	W	2	op	998.7	*	30	-13	SW	1	-	b	*	1	46	29	op.cm	o.o	o.o.b	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

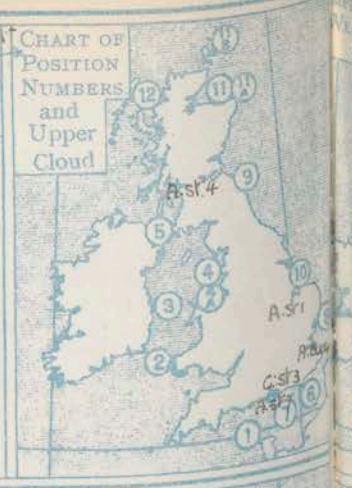
M.O. FORM 2370

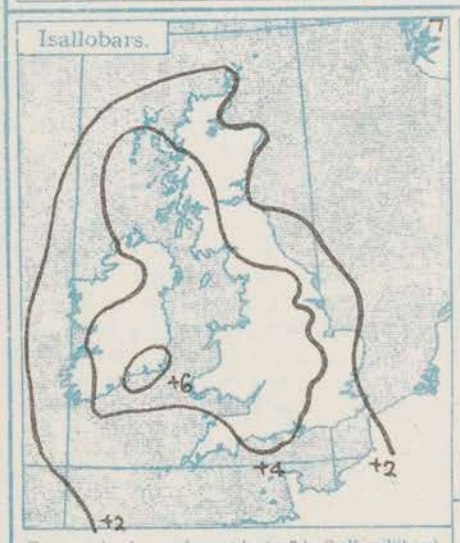
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 1st Feb 1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to fine, frosty.	Indif.	Smooth
2. E. England	Fair to fine, frost, some mist.	Indif.	Smooth
3. E. Midlands	Fair to fine, frosty.	Indif.	-
4. W. Midlands	Fair to dull, drizzle locally.	Indif.	-
5. S.W. England	Cloudy to dull, frost locally.	Good	Rough
6. South Wales	Fine.	Good	Mod
7. North Wales	Dull, some mist.	Fair	Mod
8. N.W. England	Dull, misty.	Indif	Mod
9. N. Midlands	Mainly fine, some frost.	Poor.	
10. N.E. England	Cloudy, some mist.	Poor	Slight
11. E. Scotland	Dull.	Indif	Mod
12. S.W. Scotland	Dull, rain.	Fair	Mod
13. Isle of Man	Dull.	Indif	Mod
14. N.&N.W. Scotland	Cloudy to dull, squalls, some mist.	Fair	Mod
15. Hebrides	Fair to cloudy.	Fair	Slight
16. Orkneys and Shetlands	Dull.	Fair	Mod
17. N.W. Ireland	Fair.	Good	Smooth
18. N.E. Ireland	Fair to cloudy, squally.	Good	R.Rough
19. S.E. Ireland	Dull.	Indif	Mod
20. S.W. Ireland	Fine.	Good	Slight

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
3	31st	1000	48	41
2	1st	0205	48	44





Barometric change from 4 h. to 7 h. (half millibars).

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 degrees F.

WEATHER SYMBOLS.—
clear sky. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.

SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to 9h.

The shallow depression over the British Isles is filling up and anticyclonic conditions are spreading from the Northward. New depressions approaching from the Atlantic will probably affect the West and North-West coasts very soon, but in the East and South a day or two of cold weather, with Northerly winds, is probable.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. 1st February 1921.
1. S.E. England 2. E. England 3. E. Midlands	Wind light variable, becoming North or North-East; mainly fair; visibility fair on coast, inland mist or fog; cold.
4. W. Midlands 5. S.W. England 6. South Wales	Wind Northerly, moderate; mainly fair; visibility fair, but local mist; cold.
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 mainly North-East, moderate or fresh; variable sky, some local showers of rain or sleet; visibility fair but local mist; cold.
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind light variable, becoming South-Westerly; mainly fair; visibility fair, local mist; cold.
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind Northerly light or moderate; fair generally; visibility fair; local mist; cold.

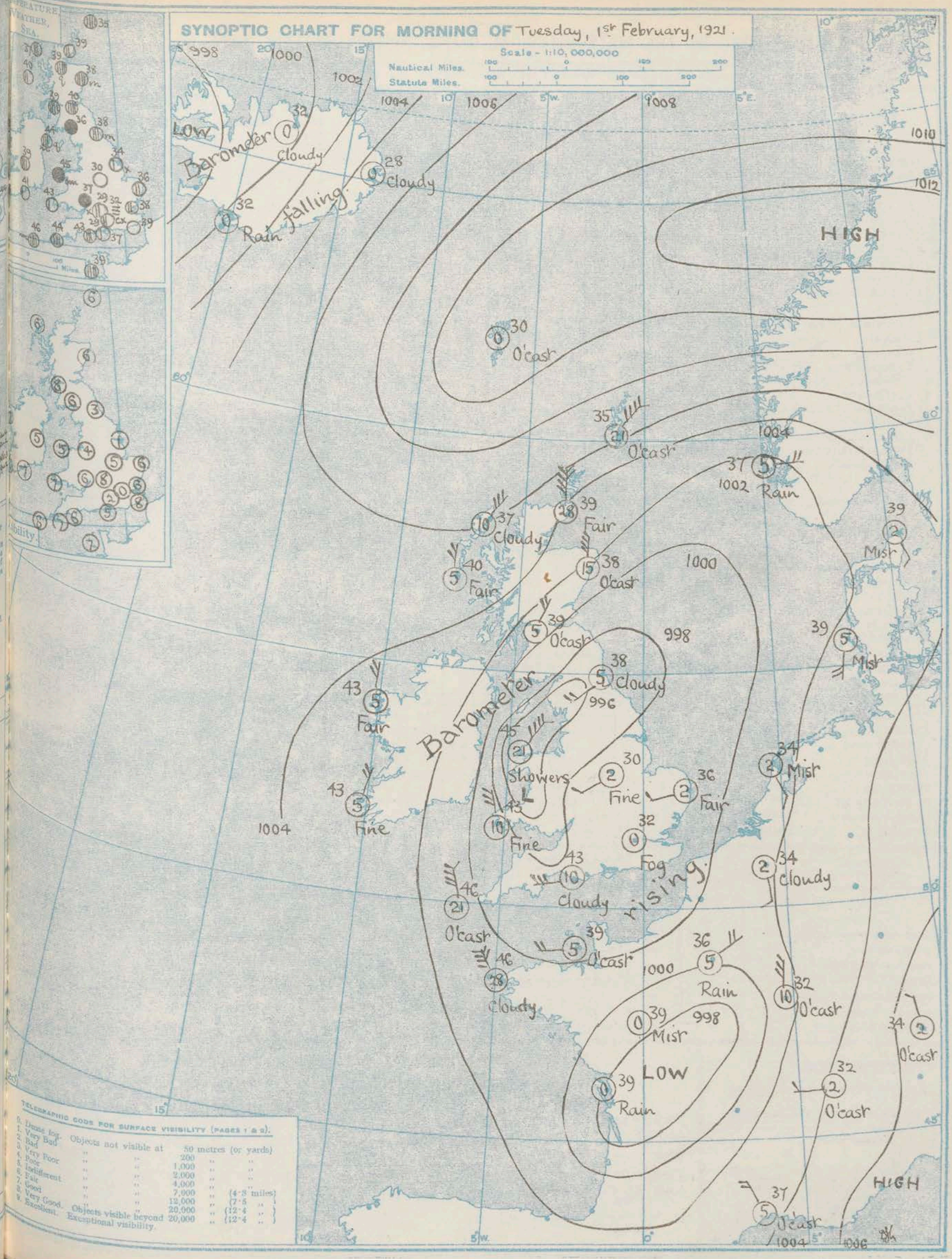
Further Outlook.

Wind likely to become Southwesterly again in the West and North-West; cold and frosty with North or North-East winds in other districts for a day or two.

E.S.6

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930

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


SYNOPTIC CHART FOR MORNING OF Tuesday, 1st February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer falling
HIGH
Barometer rising
LOW
HIGH
Cloudy
Rain
O'cast
Fair
Mist
Showers
Fine
Fog
Cloudy
O'cast
Rain
Mist
Fair
Fine
Cloudy
O'cast
Rain
O'cast
O'cast
1000
998
996
1002
1004
1006
1008
1010
1012
TELEGRAPHIC CODS FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 32... { Tuesday 1st February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 30th-31st	Rainfall. Day. 9h-18h. 31st	Sunshine. Sunrise to Sunset. 31st Jan.
Scotland.	Oban	or.o	or	43	40	0.3	4	0.0
	Banff	c.bc	p.c	42	27	-	0.4	0.8
	Montrose							
	St. Andrews	–	–	45	32	-	-	0.0
England, N.E.	Harrogate	o	op	43	39	2	1	0.0
	Scarborough	o	o	45	41	-	-	0.0
	Skegness	o.c	c.o	42	39	3	-	1.7
England, E.	Lowestoft							
	Felixstowe	op	bc	47	42	1	-	3.4
	Southend-on-Sea	orp.bc	bcp	48	39	2	1	2.3
England, S.E.	Tunbridge Wells	opc	ocpcp	46	38	5	3	1.4
	Margate	or	c.bcp	48	44	3	1	1.6
	Ramsgate	*	*	46	40	2	2	2.3
	Folkestone	ocrhp	p.c.o	47	42	1	1	0.0
	Hastings	op.bc	op	48	41	2	1	1.4
	Eastbourne	c	c.rc.bc	46	42	2	2	1.9
	Brighton	p	p.c.bc	46	42	3	4	0.9
	Worthing	r.c	r.c	47	44	?	2	1.3
	Littlehampton	bc.r	bc	45	40	3	2	1.0
	Portsmouth (S'thsea)	-	-	44	40	2	9	0.0
	Bournemouth	*	*	47	39	10	6	2.0
	Ventnor (I. of W.)	*	*					
England, N.W.	Douglas (I.O.M.)							
	Blackpool	or		44	40	2	5	0.0
	Southport	or	r.o	45	38	2	4	0.0
	Morecambe	-	-	45	42	5	2	0.0
Midlands.	Buxton							
	Leamington Spa	or	o	42	37	4	1	0.0
	Malvern	rs	b	43	34	16	4	2.5
	Bath	r.o.bc.b	b.oc.c	41	38	16	2	3.6
Wales.	Rhyl	r	r	41	35	2	26	0.0
	Colwyn Bay	-	-	45	38	2	18	0.0
	Llandudno	rr	r.c	46	39	2	14	0.0
	Aberystwyth	r.o.c	c.c.o	47	40	2	-	2.0
	Tenby							
	Swansea							
England, S.W.	Weymouth	o.c	chchc	49	40	14	3	1.7
	Teignmouth							
	Torquay	rrc.bc	bc.b.bc	49	40	14	-	2.8
	Paignton	bc	bc.bm	51	38	14	-	2.8
	Penzance	phcbc	c.bc	49	40	8	-	?
	Newquay	cph.bc	cb	48	40	2	1	2.2
	Bude	p.o.c.bc	b	49	42	4	-	5.5
	Ilfracombe	o.c.bc.b	c	47	41	6	-	0.0
	Weston-s-Mare	r.bc.b	b.bc	49	39	16	2	3.5

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h. 31st	Weather. 13h-18h. 31st	Weather. 18h-1h. 1st	Weather. 1h-7h. 1st	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h.	Rainfall.† Night. 18h-7h.	Sun. Hours.
								mm.	mm.	
Renfrew	obf.rr	obfrr.o.fpo	c.o.bc.c	bc.c.o	43	39	32	8	Trace	0.0
Eskdalemuir	lfc.rr	R.rr	rrR.rr	lfc r,s,	42	36	34	8	11	0.0
Valencia (Cahire'n)	b.bc c.	bccprsccf.rrz		bcp,	46	34	37	2	-	2.3
Baldonnel	bc.c.o	c.o	r,r, o2f	o2f	43	30	32	2	1	2.5
Manchester (Ches., Pk)	obf.r.r,	obfrrscohr	rr o2f	r,r o2f	42	33	31	6	7	*
Ross on Wye	p.rr.o2f	bcc.bbc	b.bc.bx	bbcopp,	45	33	25	8	1	1.6
Falmouth	cop,	bccozf	o b.. r,	bo.p,	44	35	30	-	2	0.8
Calshot (Hants)	orr.rq	p.o.r.o	b bczf	bbcxcozf	47	34	30	5	0.1	0.2
Lympne (Folkestone)	q.copB	ogpcobcozf	b bc pf,r	corrbcc	45	36	27	2	8	2.2
Aberdeen	obf.lfc	B.obrzq	r r q	r,r, o1f	43	33	36	1	1	0.1
Howden	olf.o	olfpdo	bc c.o	4-5fc 3fc	47	26	20	Trace	Trace	0.3
Cranwell (Lincs)	ozf.olf	rpd.c.o	b.bc x	bx	46	32	22	0.2	-	0.2
Felixstowe	copd,	bbcpd,	b.bc if	b bc if	49	37	31	0.1	-	3.5
Shoeburyness	pd.bcp	pd,.bbc	b bc	x.b bc	52	35	30	0.2	Trace	2.5
Benson	r.o	bbcb.	b	b bcx	48	29	21	1	-	*
S. Farnborough	bd.rr	bccbccik	b bc 3f	b bc x	44	28	24	1	-	0.4
London (Kew Obsy.)	cocfcoshrq	r.c.o	4-5f bccwb	6-8f x	47	30	22	2	-	0.4
Croydon	oafrpd.olf po	olfcorrbcq 2f.	b bczfzfzfc	bbc.fczfc	45	34	30	1	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus :-
R = heavy rain.
rc = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·6
2	4- 7	1·6- 3·4
3	8-12	3·5- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0- 10·7
6	25-31	10·8- 13·8
7	32-38	13·9- 17·1
8	39-46	17·2- 20·7
9	47-54	20·8- 24·4
10	55-63	24·5- 28·4
11	64-75	28·5- 33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora ⚹ Rime ✕ Solar halo ⊕ Glazed frost ~ Lunar halo ⊖ Glazed roads Solar corona ⊙ Line Squall Lunar corona ◎ Snow lying ▦

LONDON. OBSERVATIONS.	Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.† mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 31st							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o.omf	bc.odbo	46	31	27	1	0.9	90	92
City (Bunhill Row)	*	*	*	*	*	*	*	0.3	*	*
Westminster (St. James's Park)	*	*	*	48	33	29	0.4	0.6	80	93
Regent's Pk (Technical Gdns)	*	*	*	*	*	*	*	0.6	*	*
Camden Sq. (British Rainfall)	o	of c	*	47	31	28	1	*	84	98
Kensington Palace	op.	o c	*	47	32	25	1	*	81 (18h)	94
Hampstead Observatory	*	*	*	44	35	25	2	0.3	*	94

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total 195 Joules.

	Milliwatts.
Average Rate.	6.0
Maximum Rate.	21

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

1st and 2nd February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.38 / 7.36	12.7 / 12.7	4.36 / 4.38
Greenwich	7.41 / 7.39	12.14 / 12.14	4.47 / 4.49
Wick	8.21 / 8.19	12.26 / 12.26	4.31 / 4.33
Valencia	8.25 / 8.23	12.56 / 12.56	5.26 / 5.27

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 0 m. to 6 h. 30 m.

Stars.	Duration of Exposure. h. m.	Duration of Record h. m.		
Polaris	12 . 30	11	23	91
δ Ursae Minoris	12 . 30	9	29	76

NOTES ON THE WEATHER OF YESTERDAY.

Precipitation was again very general and large amounts fell in places. At Rhyl 26mm were measured between 9h and 17h while at Colwyn Bay 18mm fell during the same period. Sunshine was most abundant at Bude (5.5 hours) and Pembroke (5.7 hours). Temperature was markedly lower, especially in the South, and night frosts were general inland.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21,622 WEDNESDAY, 2ND FEBRUARY ....1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 1ST													
Renfrew	1004.6	+2	NNE	3	bc	41	75	8	4200	St.Cu	4	A.St	2	
Eskdalemuir	1002.3	+3	NNE	5	o	37	85	6	2000	St	8	Ci.St	1	*
Valencia (Cahirc'n)	1004.5	-1	ESE	2	bc	48	75	8	3.000	Cu	4	-	-	4
Baldonnel	1004.1	0	ENE	2	o	43	75	8	1.250	St.Cu	9	-	-	*
Manchester (Alex. Pk)	1001.1	+3	ESE	1	o2f	42	85	4	1.250	St	9	-	-	*
Ross on Wye	1001.4	+3	SW	1	c	43	85	7	4200	Cu	5	A.Cu	3	*
Falmouth	1003.0	+2	NNW	3	o	47	97	7	-	Cu.Nb	9	-	-	4
Calshot (Hants) *	1001.8	+1	E	2	c	45	85	8	5700	St	6	A.Cu	1	1
Lympne (Folkestone)	1001.7	0	S	3	ov	44	85	9	2000	Cu.Nb	7	A.St	2	
Aberdeen	1004.8	+2	N	4	or	39	92	6	1.250	Nb	10	-	-	4
Howden	1001.3													
Cranwell (Lincs)	1003.3	+2	SSW	1	c2f	42	85	4	3.000	St	6	A.Cu	3	*
Felixstowe	1002.1	+2	-	0	b	45	75	6	-	-	-	Ci.St	2	*
Shoeburyness	1003.5	+2	S	2	b	47	75	7	5700	Cu	1	Ci	1	1
Benson	1002.3	+2	SSW	1	b	48	85	7	4200	Cu	1	A.Cu	1	*
S. Farnborough	1001.4	+2	SSW	1	c	42	85	6	-	St.Cu	7	-	-	*
London (Kew Obsy.)	1002.4	+2	-	0	o1f	44	85	6	-	-	-	A.St	10	*
Croydon	1002.1	+2	NSW	1	om	41	85	3	3.000	Cu	4	A.St	5	*
	1002.6	+2	NSW	2	o2f	43	85	6	2000	St	6	A.St	3	*
	1H. G.M.T. OF 2ND													
Renfrew	1007.4	+1	-	0	o1f	38	85	6	3000	St	10	-	-	*
Eskdalemuir	1006.0	+1	NNE	3	c	37	92	6	-	St	8	-	-	*
Valencia (Cahirc'n)	998.9	-3	ESE	5	omr	42	*	*	*	*	*	*	*	4
Baldonnel	1003.5	-1	ENE	2	c	41	85	4	1250	St.Cu	8	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1001.1	-3	E	3	c	46	85	6	-	St	5	-	-	*
Calshot (Hants)	1003.5	0	NE	3	o	42	92	8	3,000	St.Cu	9	-	-	2
Lympne (Folkestone)	1005.3	+1	S	2	bc	38	92	8	1,250	St	5	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1006.2	+2	ESE	2	b	35	97	5	4,200	St	2	-	-	*
Cranwell (Lincs)	1005.8	+1	-	0	o5fe	28	97	1	<500	St	10	-	-	*
Felixstowe	1006.8	+1	NNE	1	bx	32	97	5	-	-	-	-	-	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1005.0	+1	*	*	*	38	*	*	*	*	*	*	*	*
Croydon	1006.1	0	-	0	b2fe	33	97	4	-	-	-	A.St	1	*

STATIONS.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. OF 1ST													
Renfrew	1007.2	0	NE	2	o3f	39	85	3	2000	St.Cu	10	-	-	
Eskdalemuir	1010.8	+1	N	1	b	31	85	6	4200	St	1	-	-	*
Valencia (Cahirc'n)	996.9	0	ESE	5	o	46	75	8	3,000	St	4	A.St	5	*
Baldonnel	1002.9	0	-	0	o2f	42	85	5	1250	St	10	-	-	*
Manchester (Alex. Pk)	1005.7	+1	-	0	o3f	37	92	3	2,000	St	9	-	-	*
Ross on Wye	1003.4	0	E	3	bomx	34	92	3	3,000	St.Cu	4	-	-	*
Falmouth	1000.0	0	ESE	4	c	47	85	7	-	St.Cu	8	-	-	*
Calshot (Hants)	1003.5	+1	ENE	4	o2f2j	42	97	5	750	Nb	10	-	-	4
Lympne (Folkestone)	1005.1	0	-	0	bomx	37	92	7	2,000	St.Cu	5	-	-	*
Aberdeen	1008.4	0	NNW	2	b	35	75	8	-	-	-	-	-	3
Howden	1006.9	+1	NNW	1	c3f	23	97	4	3000	St	8	-	-	*
Cranwell (Lincs)	1007.1	+1	-	0	o6fe	32	97	1	<500	St	10	-	-	*
Felixstowe	1006.8	0	N	2	b2f	35	92	4	4,200	St.Cu	3	-	-	1
Shoeburyness	1005.3	0	NE	1	b4fe	31	85	2	4,200	Cu	1	-	-	*
Benson	1004.7	+2	ENE	3	c	36	97	5	-	St	8	-	-	*
S. Farnborough	1004.5	+1	E	1	o5fe	38	97	1	<500	St	10	-	-	*
London (M.O. at 1H.)	1005.1	0	E	3	o5fw	37	97	1	<500	St	10	-	-	*
Croydon	1006.0	0	-	0	b5fx	30	97	1	-	-	-	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.
	18H. G.M.T. of 1ST					7H. G.M.T. of 2ND								
Lerwick	1009.2	40	N	3	c	1011.3	0	40	+5	NE	6	-	bc	4
Stornoway	1009.2	39	NE	2	bc	1009.2	0	38	+1	E	2	-	bc	2
Castlebay (Barra Is)	1008.3	40	ENE	3	b	1006.7	0	40	0	E	4	-	bc	4
Malin Head	1004.8	41	NE	3	bc	1003.3	0	40	-2	E	3	E	bc	3
Blacksod Point	1003.5	43	SE	3	b	999.8	0	40	-3	SE	2	SE	bc	2
Roche's Point	1003.6	40	SE	1	b	999.7	-1	46	+5	ESE	4	-	o	4
Birr Castle	1004.2	35	E	1	bc	1001.2	*	40	+1	E	1	-	o	*
Donaghadee	1006.0	42	NNE	4	bomq	1005.4	0	42	-2	SE	4	-	bomq	4
Liverpool (Bidston)	1003.0	40	NE	1	o	1005.1	0	39	+1	E	2	-	o	2
Holyhead	1002.9	44	NE	5	o	1003.8	+1	38	-7	SE	3	-	b	2
Pembroke (St. Ann's Head)	1003.5	43	N	2	bv	1002.1	0	40	-3	ENE	3	-	b	3
Scilly (St. Mary's)	1004.2	45	-	0	c	998.8	-1	47	+1	ESE	4	-	b	5
Jersey (St. Aubin)	1002.7	45	NW	2	b	1002.0	0	44	+5	E	2	-	o	2
Portland Bill	1002.0	44	WNW	2	bc	1002.5	0	43	0	NNE	3	NE	c	4
Dungeness	1003.5	44	S	1	c	1003.9	0	42	+3	SE	2	-	bc	2
Wick	1007.7	40	N	4	bc	1008.6	0	42	+3	NNE	4	-	bc	4
Nairn	1008.1	38	NNE	3	c	1008.3	*	33	-6	-	0	-	cg	1
Leith	1005.0	40	NE	4	o	1006.3	0	41	+1	NE	3	-	o	3
Tynemouth	1003.4	41	E	1	o2f	1007.3	0	35	-3	-	0	-	bc3f	2
Spurn Head	1004.1	40	WSW	1	b3	1007.0	+1	40	+6	SE	2	-	cx	2
Yarmouth (Gorleston)	1004.4	40	S	1	bcv	1006.7	0	40	+4	E	3	-	bcxlv	1
Clacton-on-Sea	1004.1	48	S	1	bc	1005.5	0	42	+4	SE	3	-	bc	2
Nottingham	1003.5	41	SSW	1	c	1006.4	*	31	+1	E	2	-	fex	*

STATIONS.	‡ Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	24 HOURS ENDED 7H. 2ND						1ST
Lerwick	2	41	35	bc	omrsp.	bc cmp	*
Stornoway	1	41	35	cp	bc	bcp bc	1.6
Castlebay (Barra Is)	-	42	39	bc.b	b	b	7.2
Malin Head	-	42	39	c	bc	c.bc	6.2
Blacksod Point	-	46	37	bc	bc	b.bc	*
Roche's Point	-	49	40	b.bc	bc.b	b.o.	*
Birr Castle	-	46	31	c	bc	c.o	6.7
Donaghadee	-	45	42	bq	bomq	bcm	*
Liverpool (Bidston)	-	41	37	om	om	om	0.0
Holyhead	0.1	45	37	o.c.o	o.c.o	ocbmocbm	0.0
Pembroke (St. Ann's Head)	0.4	47	40	bc.c	c.bc	bcv.b.	1.4
Scilly (St. Mary's)	-	49	41	o	bc.c	c.bc.b	1.3
Jersey (St. Aubin)	1	49	35	or.c	c.b	bw.o.	3.0
Portland Bill	2	47	39	cp.bc	bc	bc	*
Dungeness	-	47	39	bc	bcc	bc.bbc	*
Wick	0.4	42	36	bcqp	bcq	bc	*
Nairn	1	40	30	gocp	gpc	q.bcx.c	0.5
Leith	5	41	38	ogr	or.o	or u.o.	*
Tynemouth	-	41	35	om	om	fe.f.	*
Spurn Head	0.1	45	32	b	b3	bm.bfxc	*
Yarmouth (Gorleston)	0.2	47	33	bcbcb	bc.b	bmbfxbfx	6.0
Clacton-on-Sea	0.3	48	36	bc	bc	b.bc cp	5.4
Nottingham	-	44	27	om	com	c b	1.1

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 7. ‡ See footnote p.4.

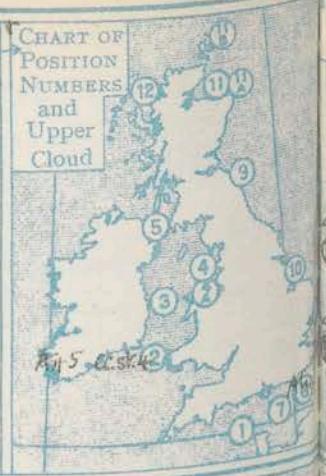
M.O FORM 2370

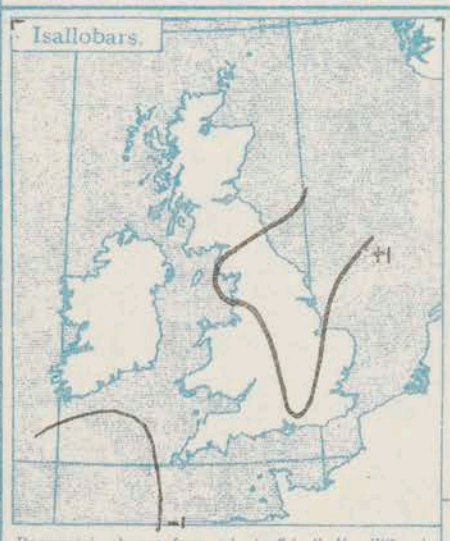
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 2nd. Feb. 1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Foggy inland; fair on coast.	Var.	Smooth
2. E. England	Foggy inland; fair on coast.	Var.	V. Smooth
3. E. Midlands	Foggy.	Bad.	-
4. W. Midlands	Fair to cloudy.	Poor.	-
5. S.W. England	Fine to cloudy.	Good.	Mod.
6. South Wales	Fine.	Good.	Slight
7. North Wales	Fine.	Good.	Smooth
8. N.W. England	Fair to dull; some fog.	Indif.	Smooth
9. N. Midlands	Foggy.	V. bad.	-
10. N.E. England	Fair to dull.	Poor.	Smooth
11. E. Scotland	Fine to dull.	Good.	Slight
12. S.W. Scotland	Fine.	Fair.	Slight
13. Isle of Man	Fair.	Good.	Smooth
14. N. & N.W. Scotland	Fair.	Fair.	Mod.
15. Hebrides	Fair.	Fair.	Slight
16. Orkneys and Shetlands	Fair.	Fair.	Mod.
17. N.W. Ireland	Fair.	Good.	Smooth
18. N.E. Ireland	Fair.	Good.	Slight
19. S.E. Ireland	Dull.	Fair.	Mod.
20. S.W. Ireland	Dull.	Good.	Mod.

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	1st	0327	49	46
4A	1st	0330	44	43
12	1st	0446	47	46
5	1st	0820	47	43
3	1st	1020	49	45
1	1st	1249	50	45
6	1st	1500	48	46





Barometric change from 4 h. to 7 h. (half millibars).

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 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

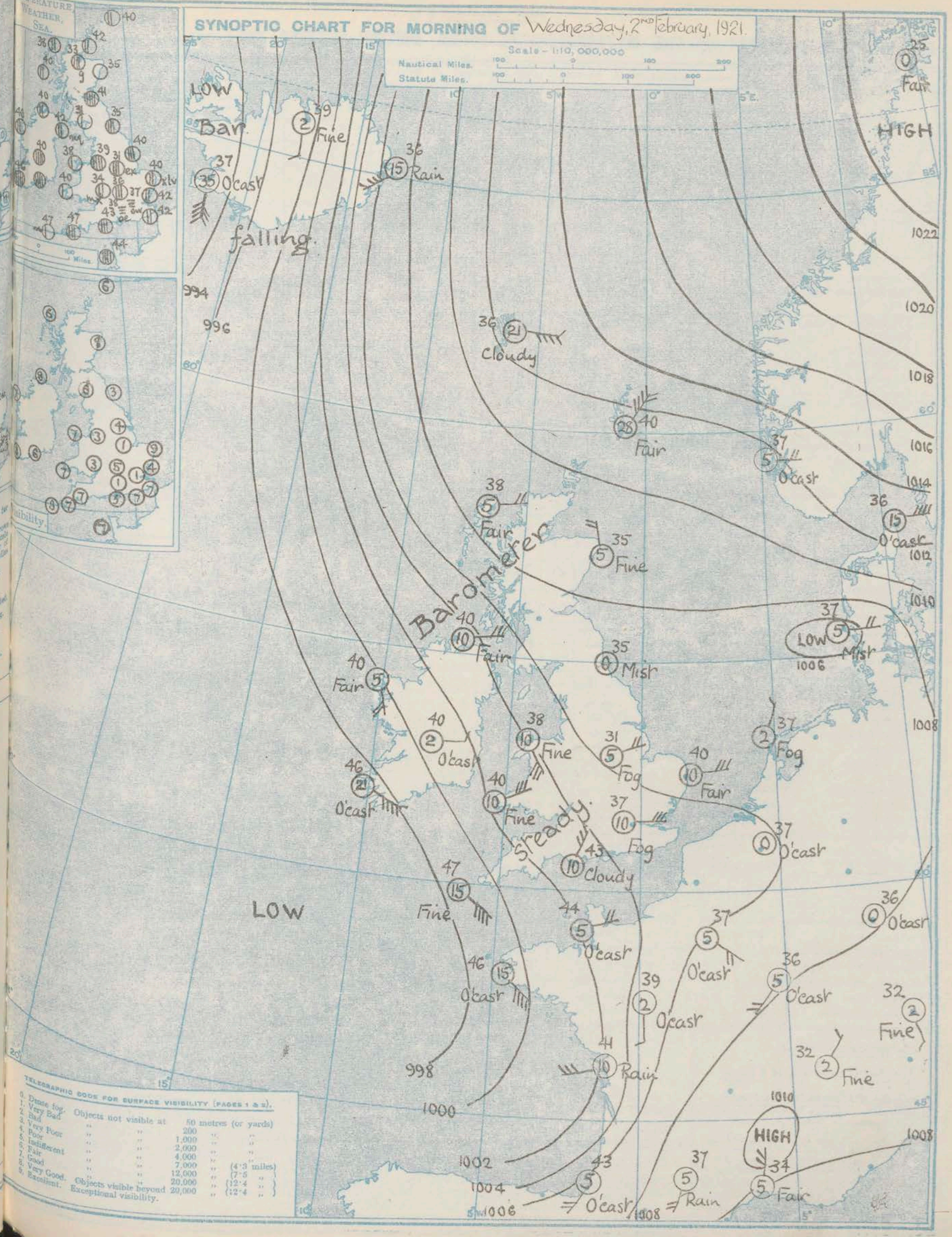
GENERAL INFERENCE from observations received up to 9h.

The anticyclone in the North shows no indication of further development and the British Isles are coming under the influence of a depression centred off the South-West coasts. Winds will be between East and South with rather low temperature in the Eastern districts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 2nd. February 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind mainly South-East moderate; cloudy or dull, some rain probable; visibility varying poor to fair, local mist or fog; rather cold.	NONE ISSUED
5. S.W. England 6. South Wales	Wind mainly SE fresh or strong; dull, some rain; visibility fair; moderate temperature.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind East or South-East moderate; fair to cloudy; visibility fair; 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 Easterly moderate; mainly fair; visibility fair; rather cold.	
17. N.W. Ireland 18. N.E. Ireland	Same as 7 - 10.	
19. S.E. Ireland 20. S.W. Ireland	Same as 5 - 6.	

E.S.B.

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


SYNOPTIC CHART FOR MORNING OF Wednesday, 2nd February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar.
falling.
HIGH
Barometer
steady.
LOW
HIGH
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
Fine
Rain
O'cast
Cloudy
Fair
Mist
Fog
TEMPERATURE, WEATHER, SEA.
Miles.
Visibility.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 33 ... Wednesday 2nd February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 3rd, 1st	Rainfall. Day. 9h-18h. 1st	Sunshine. Sunrise to Sunset. 1st
Scotland.	Banff	o.c	c.o	42	38	0.2	–	0.0
England, N.E.	Harrogate	o.–?v	o.–?v	38	33	–	–	0.0
England, E.	Felixstowe	bc	bc	48	36	–	–	4.8
	Southend-on-Sea...	cp.bc	bc.c.or	?47	35	0.3	0.3	5.0
England, S.E.	Tunbridge Wells	b.bc.b	cop	46	31	1	0.3	2.5
	Margate	bc.b	cm	48	37	1	–	2.8
	Ramsgate	*	*	45	36	4	–	5.0
	Folkestone	f.oc	c.o	48	34	1	–	0.0
	Hastings	m.bc.c	bc.c.o	46	36	5	0.1	2.7
	Eastbourne... ...	c	c.o	46	32	8	–	2.5
	Brighton	c3.bc	bc.c.o3	47	35	3	–	1.3
	Worthing	c	o	46	34	–	1	1.0
	Littlehampton ...	bom	bc	45	35	0.2	0.1	0.6
	Portsmouth (S'ibaca)	–	–	46	34	9	–	1.5
	Bournemouth	*	*	45	31	6	–	0.7
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 3rd, 1st	Rainfall. Day. 9h-17h. 1st	Sunshine. Sunrise to Sunset. 1st
England, N.W.	Blackpool	or	o	41	37	2	–	0.0
	Southport	o	o	40	36	4	–	0.0
Midlands.	Leamington Spa...	c	c	47	29	–	–	0.0
	Bath	op	o.c.bc	44	30	1	0.3	1.1
Wales.	Rhyl	op	o	42	35	8	1	0.0
	Llandudno	o	o	44	38	8	–	0.0
	Aberystwyth ...	–	–	46	37	6	?	0.1
England, S.W.	Weymouth	p.bc	bc.b	48	34	0.4	–	1.5
	Torquay	c.b.b	bb.bc	50	37	1	–	6.0
	Paignton	bc.o.b	b.bf	50	33	0.3	–	6.0
	Penzance	o.bc	c.bc	50	37	4	0.2	1.6
	Bude	pd.bc	b	48	38	6	–	4.6
	Ilfracombe	b.bc	bc.c.o	47	40	3	–	5.2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 1st	Weather. 13h-18h 1st	Weather. 18h-1h 1st/2nd	Weather. 1h-7h 2nd	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
Renfrew ...	co.bc.c	bc.bcozf	c o1f	o.f o3f	43	36	27	–	–	4.7
Eskdalemuir	bc.cp.	o.pd.	d.d. pd.co	bc.c.b.bc	38	30	26	1	1	0.5
Valencia (Cahirc'n) ...	b.bc	b.bc.b.bc	b.bc	bc.c.o	48	39	39	–	–	6.5
Baldonnel	c.o	c.o2f	c.o2f	c o2f	45	36	32	–	–	2.9
Manchester (Ulcc. Pk)	cofc.bc.cof	ofc.f	o1f c.o	bc.x c o3f	44	35	26	Trace	–	*
Ross on Wye... ...	r.c.o	c.o.o	c o b bc.bc.f	b.bc.x	44	30	26	0.2	–	1.2
Falmouth	co.bc.c.o	o.c.o	c o	bc.c	48	40	31	–	–	1.5
Calshot (Hants)... ...	co.pd.	or.	c o1f	or.r2f	46	35	29	2	3	1.1
Lympne (Folkestone) ...	bb.c1f.c.o	c.or.o.o	c o.b.bc	b.bc.x b.c.y	45	34	24	–	–	2.8
Aberdeen	r.r. r.	r.r.	r.r. 1fe	1fe b	39	34	29	3	–	0.0
Howden	coe	o2f	3f e	3f.x	43	23	18	–	–	1.8
Cranwell (Lincs)	bbc.bbc	bbc.c	b x.	x 4-5fe	36	25	24	0.1	–	6.5
Felixstowe	bc.c.bbc	b.bc.bbc	b2f	fe bc c	48	31	24	–	0.4	4.8
Shoeburyness	bbc.bbc	b.bc.bbc	b bc	4-5fe x	49	28	22	–	–	5.3
Benson	pd.bc.c	c.o.o	o bcc	bc c x	44	29	27	0.1	–	*
S. Farnborough ...	bbc3f.bc.o	fr.c.o.o2fe	b.bc o2f	o2f 4-5f	45	29	29	–	Trace	1.3
London (Kew Obsy.) ...	6-8fbc3f.c2f	cor.bcc3f	b o4-5f b3f	b3f o4-5fw	44	31	27	Trace	Trace	0.7
Croydon	fc.c o1ff.f	o2f.o1f.2fc	o2fe b.o	b bc b2f e4-5f x 4-5f	46	30	25	–	–	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:–
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora ☆ Rime ✕ Glazed frost ~ Glazed roads ⚒ Line Squall ⊟ Solar halo ⊕ Lunar halo ◐ Solar corona ◎ Lunar corona ◎ Snow lying ⊞

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. † mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. ... 2nd							Yesterday.		To-day.
Greenwich (Royal Observatory)	bc	o.p.	o b.f	48	33	28	0.3	4.3	81	97
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	*	47	35	30	–		78	98
Regents Pk (Botanical Gdns)	*	*	*	*	*	*	*	1.0	*	*
Camden Sq. (British Rainfall)	fx.c	c.o	*	44	32	28	–	*	80	100
Kensington Palace	bc.c	c.o	*	46	34	28	–	*	87 (18h)	96
Hampstead Observatory ...	*	*	*	44	33	29	Trace		*	98

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

2nd & 3rd February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.36	12.7	4.38
	7.35	12.7	4.39
Greenwich	7.39	12.14	4.49
	7.38	12.14	4.50
Wick ...	8.19	12.26	4.33
	8.17	12.26	4.35
Valencia ...	8.23	12.56	5.27
	8.21	12.56	5.29

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from ...18.....h..0...m.
to ....6.....h 30..m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	12. 30	7 30	60
δ Ursae Minoris	12 30	6 49	55

NOTES ON THE WEATHER OF YESTERDAY.

Slight rain occurred in various districts the highest measurements being 5mm at Leith and Calshot. Several hours of sunshine were enjoyed in nearly all localities, Castlebay having as much as 7.2 hours and many other stations 6 hours or more. Temperature was rather low, the maximum at Cranwell being no higher than 36°

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21623 ...THURSDAY, 3RD FEBRUARY, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. of 2ND														18H. G.M.T. of 2ND													
Renfrew	1007.8	-1	NE	3	c	40	85	4	2000	St.Cu	8	-	-	*	1008.9	+2	SE	2	bc2f	36	92	4	-	-	-	Ci.St	5	*
Eskdalemuir	1008.6	0	SE	3	b	41	75	7	4200	St.Cu	1	-	-	*	1009.6	+2	-	0	b	33	85	5	-	-	-	Ci.St	2	*
Valencia (Cahire'n)	998.6	+2	SE	5	o	50	65	8	3000	St.Cu	7	A.St	3	4	999.1	+1	SE	6	c	49	85	8	2000	St.Cu	5	A.St	3	4
Baldonnel	1003.9	-1	ESE	5	c2f	46	75	5	2000	Cu	7	-	-	*	1005.3	+2	SE	3	o2f	42	85	5	2000	St.Cu	10	-	-	*
Manchester (Alex Pk)	1007.1	0	ESE	3	b2f	41	83	4	2000	Cu	1	-	-	*	1008.7	+2	E	2	bc3f	35	85	3	-	-	-	A.St	4	*
Ross on Wye	1005.5	+1	ENE	3	c	39	85	6	3000	St.Cu	8	-	-	*	1007.0	+3	E	2	bc	38	92	5	3000	Cu	3	Ci	1	*
Falmouth	1001.2	+1	ESE	4	bc	50	75	7	-	St.Cu	5	Ci	1	*	1003.9	+2	ESE	5	bcq	46	85	7	-	St.Cu	3	A.St	1	*
Calshot (Hants) *	1004.7	+1	E	5	b	47	86	7	3000	Cu	3	-	-	4	1005.7	+1	E	4	b2f	43	85	4	3000	St.Cu	3	-	-	4
Lympne (Folkestone)	1005.8	0	ESE	3	bc	44	75	8	2000	Cu	4	A.St	1	*	1007.5	+1	NE	2	b1f	36	97	7	2000	St.Cu	1	-	-	*
Aberdeen	1009.5	-1	NW	2	bc1f	39	75	6	4200	St.Cu	5	-	-	2	1010.3	+1	NW	2	b2fe	35	92	4	3000	St.Cu	1	-	-	2
Howden	1008.1	+1	-	0	c	44	85	6	5700	St.Cu	7	-	-	*	1009.3	+3	E	1	b	37	92	6	3000	St.	2	A.St	1	*
Cranwell (Lincs)	1008.1	+1	-	0	o2f	41	92	5	2000	St.	9	-	-	*	1009.5	+1	-	0	2f	37	97	5	-	-	-	A.St.	1	*
Felixstowe	1007.8	0	NE	2	b	44	75	8	5700	Cu	3	-	-	*	1009.6	+3	NNE	2	o	39	97	7	2000	St.Cu	10	-	-	*
Shoeburyness	1006.4	-1	ESE	2	bc	43	75	7	3000	St.Cu	3	A.Cu	2	*	1007.7	+1	-	0	b	35	85	6	5700	St.Cu	1	-	-	*
Benson	1005.2	0	E	3	b	44	75	6	-	Cu	2	-	-	*	1007.0	+2	E	2	b	35	92	5	-	St	2	-	-	*
S. Farnborough	1005.7	0	E	2	bc.4fe	40	97	2	<300	St.	6	-	-	*	1007.0	+3	E	2	bc2fe	34	97	4	2000	St.	5	-	-	*
London (Kew Obsy.)	1006.0	0	NE	1	o5fw	40	92	1	<500	St.	10	-	-	*	1007.5	+2	ENE	2	bmw	40	85	2	-	-	-	-	-	*
Croydon	1006.4	+1	NE	1	b3f	40	97	3	-	-	-	-	-	*	1008.2	+2	E	3	b3f	36	97	3	-	-	-	-	-	*
	1H. G.M.T. of 3RD														7H. G.M.T. of 3RD													
Renfrew	1010.6	+1	SE	1	b2fx	34	92	4	-	-	-	-	-	*	1011.4	+2	E	2	o3f	32	92	2	-	-	-	Ci	9	*
Eskdalemuir	1011.8	+2	-	0	b2f	27	92	5	-	-	-	-	-	*	1012.4	+1	-	0	bcx	26	85	6	-	-	-	A.St	6	*
Valencia (Cahire'n)	1001.0	-2	SSE	5	o7r	49	*	*	*	*	*	*	*	6	1003.9	+5	WNW	3	bc	49	85	6	2,000	St.Cu	4	A.St	2	*
Baldonnel	1006.8	+1	SE	4	o2f	44	75	5	2000	St.Cu	10	-	-	*	1006.9	0	E	5	o2f	45	85	4	<500	St	10	-	-	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+2	ENE	1	cx3f	27	92	1	1,250	St	6	Ci	2	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.1	+4	-	0	04fe	33	97	2	<500	St	10	-	-	*
Falmouth	1007.0	+2	SE	3	o	47	85	6	-	-	-	-	-	*	1009.3	+3	SSE	5	o	47	75	7	-	St.Cu	10	-	-	*
Calshot (Hants)	1010.0	+2	-	0	b2f	35	97	4	-	-	-	-	-	0	1013.4	+3	NNE	2	b2f	35	97	5	3,000	St.Cu	1	A.Cu	2	1
Lympne (Folkestone)	1010.5	+3	-	0	c1f	36	97	7	1250	St	7	-	-	*	1013.0	+4	-	0	o1f	37	97	7	1,250	St	8	A.Cu	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.6	+1	WSW	1	c4fex	36	97	2	3000	St.Cu	8	-	-	2
Howden	1011.6	+2	-	0	o6bf	32	92	5	4200	St	9	-	-	*	1013.0	+2	-	0	bc fex	26	97	3	<500	St	4	-	-	*
Cranwell (Lincs)	1012.7	+2	-	0	[illegible]	38	97	2	<500	St	10	-	-	*	1014.0	+2	-	0	o3fe	28	97	2	<500	St	10	-	-	*
Felixstowe	1012.1	+2	N	2	b1f	35	97	6	-	-	-	-	-	0	1013.2	+3	NNW	2	bx	33	85	8	-	-	-	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+3	NE	1	b2fex	31	85	5	-	-	-	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.3	+5	-	0	4fx	26	97	0	-	-	-	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.5	+4	-	0	o5f	30	97	1	<500	St	10	-	-	*
London (M.O. at 1H.)	1010.4	+2	*	*	*	37	*	*	*	*	*	*	*	*	1014.0	+3	-	0	o fx	30	97	0	<500	St	10	-	-	*
Croydon	1011.4	+2	S	1	bc fex	33	97	1	-	-	-	-	-	*	1014.1	+3	-	0	b6fx	28	97	1	-	-	-	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9	† Rainfall 10m.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 2ND					7H. G.M.T. of 3RD									24 HOURS ENDED 7H. 3RD						2ND
Lerwick	1011.3	42	E	4	c	1012.5	+1	43	+3	S	4	-	bq	3	4	44	37	b	c	c.bcqp	*
Stornoway	1007.4	41	SE	3	b	1005.1	0	42	+4	SE	6	-	oq	5	-	43	37	bc	bc b	b.oq	5.6
Castlebay (Barra Is)	1005.6	44	SE	5	o	1004.2	0	45	+5	SSE	5	-	f	6	2	45	40	bc	co	o.cf	3.8
Malin Head	1003.2	42	ESE	3	cz	1001.9	0	42	+2	SE	4	-	[illegible]	4	-	47	37	cm	cz	bc.om	1.7
Blacksod Point	999.2	44	SE	5	c	1001.1	+5	45	+5	W	1	-	odm	2	4	50	37	bc	bc	c.o.omr	*
Roche's Point	1002.2	48	ESE	5	c	1004.4	+1	49	+3	SE	4	-	o	5	1	49	46	oc	c	or.o	*
Birr Castle	1003.1	42	SE	1	c	1004.3	*	47	+7	S	1	-	o	*	-	47	39	bc	c	c.o	2.8
Donaghadee	1006.9	44	SE	1	bcmq	1009.8	+2	43	+1	SE	3	SE	bcmq	3	-	47	42	bcmq	cm.q	bcmq	*
Liverpool (Bidston)	1008.0	39	ENE	3	bc	1011.7	+2	37	-2	SE	3	-	o	3	-	41	34	obcb	bcm	cm.o	4.0
Holyhead	1006.3	40	SE	3	b3f	1009.6	+2	37	-1	SSE	3	-	bcm	2	-	46	33	xbm	bm	bmx.bc	7.6
Pembroke (St. Ann's Head)	1004.8	43	E	4	b1f	1008.9	+1	44	+4	SE	4	-	o	4	-	44	40	bc	bcm	bm.bc.o	5.0
Scilly (St. Mary's)	1002.2	46	SE	4	c	1007.3	+2	49	+2	SSE	4	-	o12-3f	5	1	51	45	bbc	bc.c	o.cotm	3.1
Jersey (St. Aubin)	1003.4	45	ENE	4	b	1012.1	+1	41	-3	E	3	-	oe	2	-	48	41	ocmbc	bc.b	bw.oe	4.5
Portland Bill	1005.1	46	E	5	bc	1011.7	+4	45	+2	E	4	E	o	4	-	47	40	cbc	bc	bc c.	*
Dungeness	1006.0	42	ENE	3	bc	1012.2	+3	35	-7	N	2	NE	f	3	-	45	33	bc.b	b.bc	bc cmf	*
Wick	1008.6	43	SE	2	bc	1009.8	0	41	-1	S	5	-	bq	4	1	43	39	bc	cbc	bc.bq	*
Nairn	1008.8	31	-	0	bc	1009.3	*	28	-5	-	0	-	bc	0	-	38	27	cbc	bc	bcmx	5.7
Leith	1009.2	37	SSE	1	b	1011.7	+1	33	-8	SE	1	-	b	1	2	42	32	obcbc	c.bc.b.	bzx	*
Tynemouth	1010.1	41	SE	2	bc	1012.7	+1	35	0	-	0	-	sfe	2	-	43	34	bcm	bc	bmbf.f	*
Spurn Head	1008.9	41	ESE	2	bc	1012.0	+1	38	-2	NNW	2	-	bmx	2	-	46	35	c	bc	bv.bm	*
Yarmouth (Gorleston)	1008.6	41	NE	3	c	1012.6	+1	34	-6	WNW	2	-	c	1	-	48	33	bcbcv	bcvc	cvbvbxbv	6.3
Clacton-on Sea	1007.7	40	NE	2	m	1012.7	+3	34	-8	NNW	2	-	bmx	2	-	46	33	bc	bcm	bc.bmx	3.8
Nottingham	1008.8	34	-	0	f	1013.3	*	32	+1	SW	1	-	fe	*	0.2	39	28	feom	orcm	fe	0.4

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote 2.4.

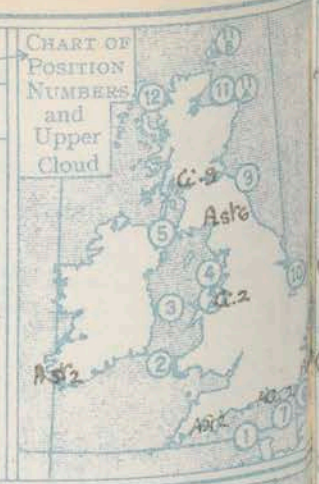
M.O. FORM 2370

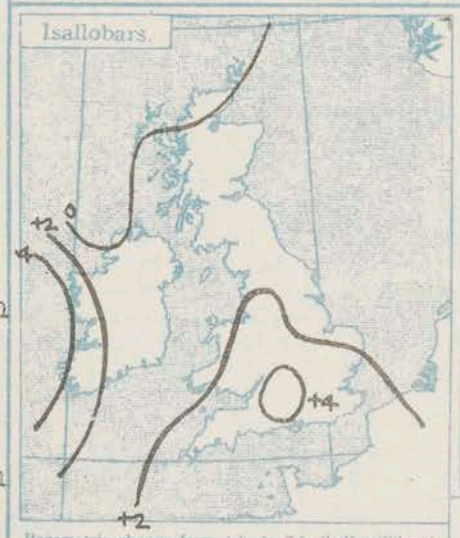
SUMMARY OF CONDITIONS AT 7 h. G.M.T.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Some mist & fog, frosty	Poor	Smooth
2. E. England	Mainly fine, frosty	Fair	V. Smooth
3. E. Midlands	Foggy, frosty	Bad	--
4. W. Midlands	" "	V.Bad	--
5. S.W. England	Dull, slight rain	Good	R.Rough
6. South Wales	Dull	"	Mod
7. North Wales	Fair, misty	Fair	Calm
8. N.W. England	Dull, misty	Bad	Slight
9. N. Midlands	Fair, frosty	Fair	--
10. N.E. England	Fair, frosty, some mist.	V.Bad	Smooth
11. E. Scotland	Foggy, frosty	Bad	Slight
12. S.W. Scotland	Frosty	Fair	"
13. Isle of Man	Fair Misty	"	"
14. N.& N.W. Scotland	Fair generally	Indiff	".
15. Hebrides	Squally, rain in South	Fair	R.Rough
16. Orkneys and Shetlands	Fine, squally	Poor	Slight
17. N.W. Ireland	Dull, misty, drizzle	Indiff.	Smooth
18. N.E. Ireland	Fair, misty, squally	Fair	Slight
19. S.E. Ireland	Dull.	Indiff.	R.Rough
20. S.W. Ireland	Fair	Fair	--

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F





Barometric change from 4 h. to 7 h. (half millibars).

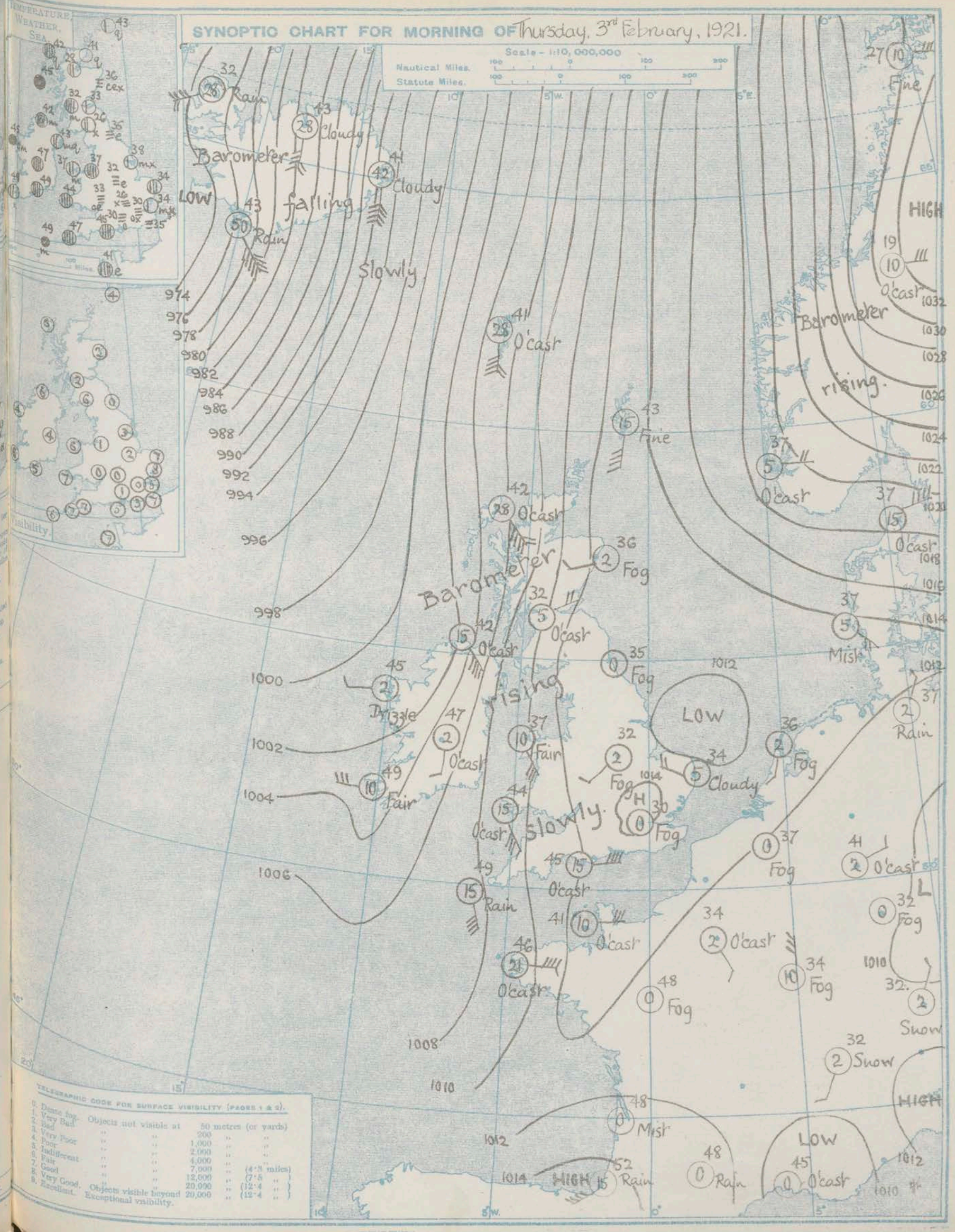
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to

With barometric pressure high over Scandinavia and low over Iceland and off the West of the British Isles, winds from the Southward or Southeastward will predominate for the present, with fair to dull weather and a moderate temperature generally. Some rain & a higher temperature may be expected in the West.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. 3rd February. 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind mainly Southerly, light, variable locally; fair generally but mist or fog at times, Visibility mainly indifferent. Rather cold, frost at night.	
5. S.W. England	same as 13-20	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland	Wind between S and S.E. Light or moderate, fresh locally Cloudy to fair, some local mist, visibility indifferent to fair; rather cold, frost at night.	
12. S.W. Scotland	same as 13 to 20	None issued.
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 between S. and S.E., light or moderate, stronger locally, much cloud generally, some rain or showers, fairer at intervals. Visibility mainly fair, moderate temperature.	

RS


SYNOPTIC CHART FOR MORNING OF Thursday, 3rd February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE
WEATHER.
SEA.
Visibility
LOW
Barometer falling slowly
Barometer rising slowly
Barometer rising.
HIGH
LOW
HIGH
L
H
Rain
Cloudy
Fine
O'cast
Fog
Mist
Snow
Drizzle
Fair
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No 34.

THURSDAY, 3rd FEBRUARY

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 1st	Rainfall. Day. 9h-18h. 2nd	Sunshine. Sunrise to Sunset. 2nd
Scotland.	Banff	bc b	bc b	47	30	0.3	-	6.8
England, N.E.	Harrogate	o bcm	bcm	42	35	-	-	1.3
	Skegness.	b	b	45	28	-	-	5.8
England, E.	Lowestoft	bc	bc	44	32	1	-	5.5
	Felixstowe	xmcbc	bc	49	31	0.2	-	5.3
	Southend-on-Sea...							
England, S.E.	Tunbridge Wells	b	bcb	45	36	-	-	4.5
	Margate	o bbc	or.bc	47	36	-	1	2.4
	Ramsgate	"	"	45	39	-	0.4	2.5
	Folkestone	b	bcb	45	35	-	-	6.5
	Hastings	b	b	46	38	-	-	7.5
	Eastbourne	bc	cbc	46	43	0.2	-	4.4
	Brighton	bc	bc.b	48	38	-	-	5.1
	Worthing	bc.b	b	48	40	-	-	6.9
	Littlehampton ...	bc	bc	46	39	5	-	7.5
	Portsmouth (S'thsea)	"	"	47	41	9	-	7.2
	Bournemouth ..	"	"	46	35	-	-	3.6
		"	"					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 1st	Rainfall. Day. 9h-18h. 2nd	Sunshine. Sunrise to Sunset. 2nd
England, N.W.	Blackpool	bc	b.bc	43	36	-	-	6.1
	Southport	b	bcb	42	37	-	-	2.0
Midlands.	Leamington Spa...	o	of	45	30	-	-	4.4
	Bath	oc bc	bc b	44	35	-	-	2.1
Wales.	Rhyl	bc	bc	43	36	-	-	5.0
	Colwyn Bay ...	"	"	43	37	-	-	7.0
	Llandudno	"	"	45	34	-	-	5.9
	Aberystwyth ...	"	"	44	36	-	-	7.8
England, S.W.	Weymouth	bbc	bc b	49	35	0.4	-	4.8
	Torquay	cb	b	50	39	-	-	4.8
	Paignton	cbc	bcc	50	37	-	-	4.3
	Penzance	bc	bc	51	40	-	-	6.6
	Bude	w bcb	b	48	35	-	-	6.4
	Ilfracombe	b	b.bcco	46	37	-	-	7.1

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 2nd	Weather. 13h-18h 2nd	Weather. 18h 2nd-1h 3rd	Weather. 1h-7h 3rd	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	o3f pd bcc3f	bbc3f	b.bc b3f x	bc c o3f x	44	31	21	-	~~.6~~ -	1.3
Eskdalemuir	b.bc	bbc2f	bbcb.b.	b.bc c	41	24	21	-	-	5.8
Valencia (Cahire'n) ...	coo	o co	co f%	RR bcc	50	46	44	-	7	0.2
Baldonnel	co if	o3f	o2f	o2f o	45	40	38	-	-	3.0
Manchester (Alex Pk)	co bcc b3f	bbc 3f	b.bc3f x	x bbc c o3f	43	27	17	-	-	*
Ross on Wye... ...	bcc3f o2f if	bcc f bbc3f	bbc 3f bx	b o ifc	42	31	27	-	Trace	3.2
Falmouth	bcc	bcc	bc.c o	b2f x	51	46	?	-	-	5.7
Calshot (Hants)... ...	co3f bcc b3f	bcc f co if	if 2f	~~bcc b x~~	47	34	28	1	-	6.3
Lympne (Folkestone) ...	bcc 2f if	bbc if	b.bc if bc if	co if	44	33	25	-	-	6.3
Aberdeen	if 2f	2f 2fe	2fe 3fe	4-5fe x	40	31	24	-	-	1.1
Howden	bcc.o4-5f	bcc co	bc.c 2fe	4-5fe x	45	22	18	-	-	3.4
Cranwell (Lincs)	6-8fe 4-5fe	bcc.bbc	3f x.	x 4-5fe	43	27	22	-	-	3.1
Felixstowe	bbc if	co c o	bbc.	b.bc if x	45	31	25	-	-	5.3
Shoeburyness	3fe if	bbc.bbc	b.bc b	x 2fe	48	30	23	Trace	Trace	3.6
Benson	bbc	bbc	b	4-5f x	46	26	22	-	-	*
S. Farnborough ...	bcc 4-5fe	bbc 4f bbc2f	b2f	b.bc o3f o4-5f	43	26	23	-	-	1.7
London (Kew Obsy.) ...	w o 3-5f g o4-5f	w.o4-5f bc g w3f 4-5fw	b4-5f w	bc 5f w o c 5fx	44	28	24	Trace	Trace	0.3
Croydon	bx 4-5f 3f	b2f bbc2f	b3fx 4-5fec 5fo	b 6-8f x	43	28	22	Trace	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊗ Aurora ⁂ Rime ⚹ Lunar halo ⊘ Glazed frost → Solar corona ⊙ Glazed roads ⚒ Lunar corona ⊚ Line Squall ⊘ Snow lying ⊠

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 3rd							Yesterday.		To-day.
Greenwich (Royal Observatory)	f	c	b.bc fx	46	27	27	-	2.0	82	93
City (Bunhill Row)	*	*	*	*	*	*	*	0.5	*	*
Westminster (St. James's Park)	*	*	*	46	29	27	-	0.4	72	100
Regent's Pk (Botanical Soc.)	*	*	*	*	*	*	*	0.1	*	*
Camden Sq. (British Rainfall)	fe cm	c	*	44	27	24	-	*	84	100
Kensington Palace	o	b.oc	*	44	29	23	-	*	88 (18h)	91
Hampstead Observatory ...	*	*	*	42	29	22	-	1.9	*	91

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total .....124..... Joules.

	Milliwatts.
Average Rate.	3.7
Maximum Rate.	19

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

3rd AND 4th FEBRUARY, 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.35	12.7	4.39
	7.33	12.7	4.41
Greenwich	7.38	12.14	4.50
	7.36	12.14	4.52
Wick ...	8.17	12.26	4.55
	8.15	12.26	4.57
Valencia ...	8.21	12.55	5.29
	8.19	12.55	5.31

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from ...18.....h...9...m.
to .....6.....h.30...m

Stars.	Duration of Exposure. h.	m.	Duration of Trailing. h.	m.	
Polaris	12	30	6	20	51
δ Ursae Minoris	12	30	5	14	42

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 50° in some Western localities, but remained below 45° over a large portion of the Kingdom and below 40° at some Scottish stations. Rain was experienced at a few places in the North and West, but not in large amounts. Bright sunshine was very prevalent at most of the coast stations; 8 hours at Aberystwyth, 7.6 hours at Holyhead and 7.5 hours at Hastings and Littlehampton.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21.624 ... FRIDAY, 4TH FEBRUARY, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	% Humidity.	Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. of 3RD														18H. G.M.T. of 3RD													
Renfrew	1013.6	+1	E	2	03f	38	85	2	2000	St	9	A.St	1		1015.1	+3	–	0	03f	37	92	2	5700	St.Cu	5	A.St	5	
Eskdalemuir	1014.8	+1	–	0	c	28	65	7	4200	St.Cu	1	A.Cu	7	*	1016.0	+2	–	0	bcm	32	85	4	–	–	–	A.St	4	*
Valencia (Cahirc'n)	1007.2	+1	–	0	bc	50	65	8	3000	Cu	1	A.Cu	4	3	1005.9	−3	ESE	1	0f	45	92	7	3000	St	4	A.St	6	3
Baldonnel	1008.9	+1	SE	4	01f	47	85	7	1250	St.Cu	8	A.St	2	*	1009.3	0	S	5	0fq	48	85	8	750	St	7	A.St	3	*
Manchester (Alex. Pk)	1014.8	0	SSE	3	bc1f	42	75	6	–	–	–	Ci.St	6	*	1016.5	+3	E	3	c3f	35	92	2	1250	St	4	A.St	3	4
Ross on Wye	1014.7	+1	E	2	c	39	85	5	3000	Cu	5	Ci.Cu	2	*	1016.1	+3	NE	1	b	39	85	4	2000	St	2	Ci	1	*
Falmouth	1012.0	+2	SE	4	0d	45	97	5	–	Nb	10	–	–	*	1012.2	0	SE	3	0f.2f	49	97	3	–	Nb	10	–	–	*
Calshot (Hants) *	1015.6	+2	E	3	02f	46	85	5	4200	Cu	7	A.Cu	1	2	1017.8	+4	ESE	4	bc1f	43	85	6	3000	St.Cu	5	–	–	3
Lympne (Folkestone)	1016.5	+3	–	0	bc1f	41	92	7	2000	Cu	4	–	–	*	1018.6	+4	SSW	1	01f	40	92	6	1250	St	9	–	–	*
Aberdeen	1014.6	+2	S	2	c1fe	43	85	6	2000	St.Cu	8	–	–	2	1016.6	+3	SSE	3	bc2fe	41	85	4	1250	St	1	Ci.St	3	2
Howden	1016.4	+2	–	0	06fe	31	97	1	<500	St	10	–	–	*	1016.4	+4	–	0	0fx	29	97	1	<500	St	10	–	–	*
Cranwell (Lincs)	1017.1	+3	ESE	1	b	40	85	6	–	–	–	A.St	2	*	1018.7	+3	SE	1	b1fe	32	97	3	–	–	–	A.St	3	
Felixstowe	1016.9	+2	W	2	b	44	75	7	5700	Cu	3	–	–	*	1018.8	+4	–	0	b2f	37	92	5	–	–	–	Ci.St	1	8
Shoeburyness	1016.4	+3	–	0	b	45	65	7	–	–	–	Ci.St	1	*	1018.3	+3	–	0	b3fe	36	85	3	–	–	–	–	–	*
Benson	1015.7	0	–	0	b4fe	32	97	0	–	–	–	–	–	*	1017.6	+3	–	0	b	33	92	3	–	–	–	–	–	*
S. Farnborough	1016.6	+2	–	0	05fe	35	97	1	<500	St	10	–	–	*	1018.2	+4	–	0	06f	30	97	1	<500	St	10	–	–	*
London (Kew Obsy.)	1016.4	+1	–	0	b.6fw	33	85	1	~~<500~~	~~St~~	~~10~~	–	–	*	1018.7	+3	–	0	07fw	32	97	0	<500	St	10	–	–	*
Croydon	1016.6	+2	–	0	bc2f	44	75	4	–	–	–	Ci.Cu	4	*	1018.5	+4	–	0	b4f	35	97	2	–	–	–	–	–	*
	1H. G.M.T. of 4TH														7H. G.M.T. of 4TH													
Renfrew	1016.0	+1	ENE	3	02f	35	92	4	–	–	–	A.St	9	*	1014.0	−1	E	3	bc2f	36	85	4	3,000	St.Cu	6	–	–	*
Eskdalemuir	1017.6	0	–	0	b	30	75	6	–	–	–	–	–	*	1016.4	−1	SE	1	c	32	85	6	4,200	St	6	A.St	2	*
Valencia (Cahirc'n)	1008.2	−8	SSW	9	0fq	48	*	*	*	*	*	*	*	7	9969	0	SSE	7	0f	52	92	4	1,250	St	10	–	–	*
Baldonnel	1009.7	0	ESE	5	0f.q	46	85	6	750	St	10	–	–	*	1007.1	−4	S ~~SSE~~	6	02f	45	85	4	750	St	6	A.St	4	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.1	−1	SE	2	bx3f	31	85	3	–	–	–	A.St	2	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.7	−1	ESE	3	0	36	85	6	2,000	St	7	Ci	2	*
Falmouth	1012.3	0	SSE	3	0e	48	97	5	–	Nb	10	–	–	*	1010.8	−1	SE	5	0	47	92	7	–	Nb	10	–	–	*
Calshot (Hants)	1018.2	0	SE	5	bc	41	92	7	2,000	St.Cu	5	–	–	4	1017.6	−1	ESE	5	01f	41	92	6	2,000	St.Cu	10	–	–	5
Lympne (Folkestone c)	1020.1	+1	–	0	01f	36	97	6	1,250	St	10	–	–	*	1020.3	0	SSE	3	02f	35	97	5	750	St	10	–	–	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.3	0	SSE	4	c1fe	43	85	7	3,000	St.Cu	8	–	–	3
Howden	1019.1	0	SE	1	b2	26	97	5	3000	St	1	–	–	*	1019.9	+1	S	1	0x	27	97	4	3,000	St	6	A.St	4	*
Cranwell (Lincs)	1020.0	0	–	0	04fe	25	97	2	<500	St	10	–	–	*	1020.6	+1	S	1	04fe	31	97	2	<500	St	10	–	–	*
Felixstowe	1020.5	+1	–	0	b2f	33	97	5	–	–	–	–	–	0	1021.0	0	WSW	2	05fe	35	97	1	<500	St	10	–	–	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.0	0	SE	3	0	38	85	7	3,000	St.Cu	7	A.St	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.9	+1	SE	3	0	36	85	4	–	St	10	–	–	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.4	+1	SSE	2	02f	37	85	5	<500	St	10	–	–	*
London (M.O. at 1H.)	1019.6	+2	*	*	*	32	*	*	*	*	*	*	*	*	1019.8	+1	SE	2	0wm	37	85	4	1,250	St	10	–	–	*
Croydon	1020.4	0	S	3	b2fx	35	97	4	–	–	–	–	–	*	1020.6	0	SSE	3	02f	36	92	5	750	St.Cu	10	–	–	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 3RD					7H. G.M.T. of 4TH									24 HOURS ENDED 7H. 4TH						3RD
Lerwick	1015.4	44	SE	5	0	1018.6	−1	44	+1	SSE	5	–	0fq	4	2	45	41	omr	omp	bq.bcq	*
Stornoway	1010.0	43	S	4	0r	1008.4	−3	44	+2	S	4	–	0f	3	19	44	42	op	or	odq.op	0.0
Castlebay (Barra Is)	1009.7	47	SE	4	0p	1006.2	−2	44	−1	ESE	7	–	0	6	6	45	43	r	rop	opro	0.0
Malin Head	1009.0	44	S	2	01f	1001.6	−1	43	+1	SSE	5	–	omq	4	3	44	41	omr	omd	omr.omq	0.0
Blacksod Point	1008.0	44	–	0	0	993.1	−10	52	+7	SSE	5	–	0	5	7	52	41	bc	c	o.c.or	*
Roche's Point	1007.6	49	SE	3	0	1003.3	−1	50	+1	SE	7	–	r	6	3	53	47	dfo	of.of	f.orm	*
Birr Castle	1007.8	45	S	1	r	1001.9	*	50	+3	S	5	–	0	*	3	51	44	odr	odr	oq	0.0
Donaghadee	1012.0	44	S	3	omd	1011.2	−2	44	+1	SSE	4	–	omq	4	1	47	43	cmq	gmp	bcmq	*
Liverpool (Bidston)	1015.2	39	SE	3	0	1015.2	0	36	−1	SE	5	SE	0	4	–	42	34	ocm	bm	bc o.	3.1
Holyhead	1012.2	45	SSE	4	og	1010.9	−1	44	+7	S	5	–	cq	4	–	46	36	bcco	oco	o.cbcbq	0.0
Pembroke (St. Ann's Head)	1011.9	46	SE	4	0	1010.2	−1	45	+1	SE	6	–	0	6	2	46	43	odm	odm	opm	0.0
Scilly (St. Mary's)	1009.8	51	SSE	2	02f	1008.3	−2	49	0	SSE	5	–	0	6	3	52	48	omp	opm	omp.o.oq	0.0
Jersey (St. Aubin)	1015.7	44	ESE	4	bc	1015.2	0	38	−3	SE	5	–	0	4	–	44	38	o	obbc	bc.o	2.2
Portland Bill	1014.8	46	SE	5	c	1014.8	−2	44	−1	SE	6	SE	bc	5	–	47	41	cbc	bcc	c bc	*
Dungeness	1018.1	42	SE	1	b	1019.4	0	37	+2	SSE	2	–	0	3	–	46	33	mc.bc	bc	bc.cfo	*
Wick	1012.4	42	S	8	bc	1015.4	−1	43	+2	S	6	–	bcq	5	0.2	44	40	bbcq	bcq	bcbmq	*
Nairn	1011.7	38	S	1	c	1013.2	*	36	+8	–	0	–	cq	1	–	41	28	bcc	cq	cb.cq	0.9
Leith	1015.0	36	NE	1	b	1015.8	0	35	+2	SE	1	–	b	1	–	40	32	bm.bc	bc.cz.b	bc.bxb	*
Tynemouth	1016.4	39	SW	2	b3f	1018.8	0	30	−5	SW	2	–	4f	2	–	42	29	f	bcf	bf.bf	*
Spurn Head	1018.0	40	–	0	b	1019.1	0	39	+1	S	3	–	bmx	1	–	42	23	bcm	bcb	b.bmx	*
Yarmouth (Gorleston)	1017.9	41	NNE	2	b	1020.3	+1	31	−3	WNW	2	–	7fex	0	0.2	46	30	cm	bcm bm	bf.bmbfx	5.0
Clacton-on Sea	1018.2	41	WSW	1	bc	1020.7	0	36	+2	NNW	2	–	om	1	–	45	33	bmb	bbc	bmxom	8.0
Nottingham	1018.4	31	SE	1	fe	1019.5	*	34	+2	SSE	2	SE	om	*	0.3	39	26	fec	b.fc	fex.b	1.8

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. ‡ For code see page 3 † See footnote p. 4.

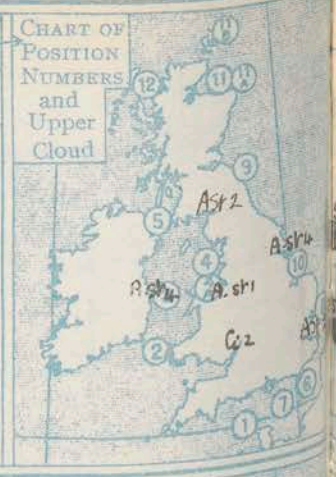
M.O FORM 2370

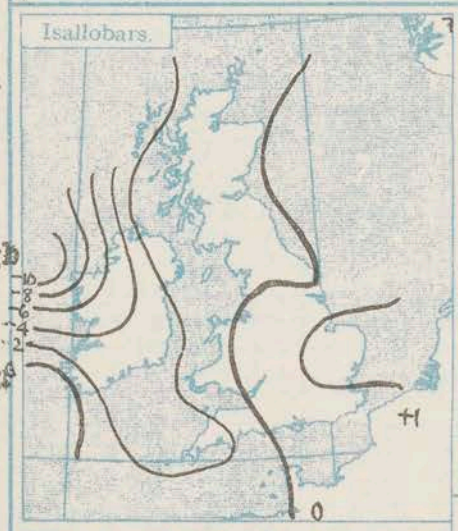
SUMMARY OF CONDITIONS AT 7 h. G.M.T 4. 1. 21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty.	Indiff.	Slight
2. E. England	Foggy, local frost.	V.Bad.	Calm.
3. E. Midlands	Dull, misty.	Indiff.	-
4. W. Midlands	Foggy, frosty.	V.Poor.	-
5. S.W. England	Dull.	Good.	Rough
6. South Wales	Dull.	V.Good	"
7. North Wales	Cloudy, squally.	Good.	Mod.
8. N.W. England	Dull.	Indiff.	"
9. N. Midlands	Frosty.	Poor.	-
10. N.E. England	Fine, local frost and fog	"	Smooth
11. E. Scotland	Fair to dull, some fog.	Good.	Mod.
12. S.W. Scotland	Cloudy.	Fair.	"
13. Isle of Man	Dull, misty, squally.	"	"
14. N.& N.W. Scotland	Fair to gloomy.	Poor.	R.Rough
15. Hebrides	Dull, showery in North.	Indiff.	" "
16. Orkneys and Shetlands	Dull, rainy, squally.	Poor.	Mod.
17. N.W. Ireland	Cloudy.	V.Poor	R.Rough
18. N.E. Ireland	Dull, misty, squally.	Fair.	Mod.
19. S.E. Ireland	Rainy.	Poor.	Rough
20. S.W. Ireland	Rainy.	"	-

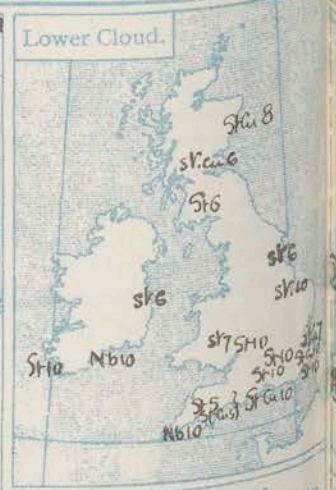
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	3rd	0310	49	43
4A	3rd	0450	44	40
5	3rd	0815	47	43
12	3rd	0440	47	43
3	3rd	1010	49	45
6	3rd	1530	48	38





Barometric change from 4 h. to 7 h. (half millibars).



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 degrees F.

WEATHER SYMBOLS.— clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. sky ¾ clouded. rain falling. snow. sleet. hail. fog. mist. T thunder. ℞ thunderstorm.

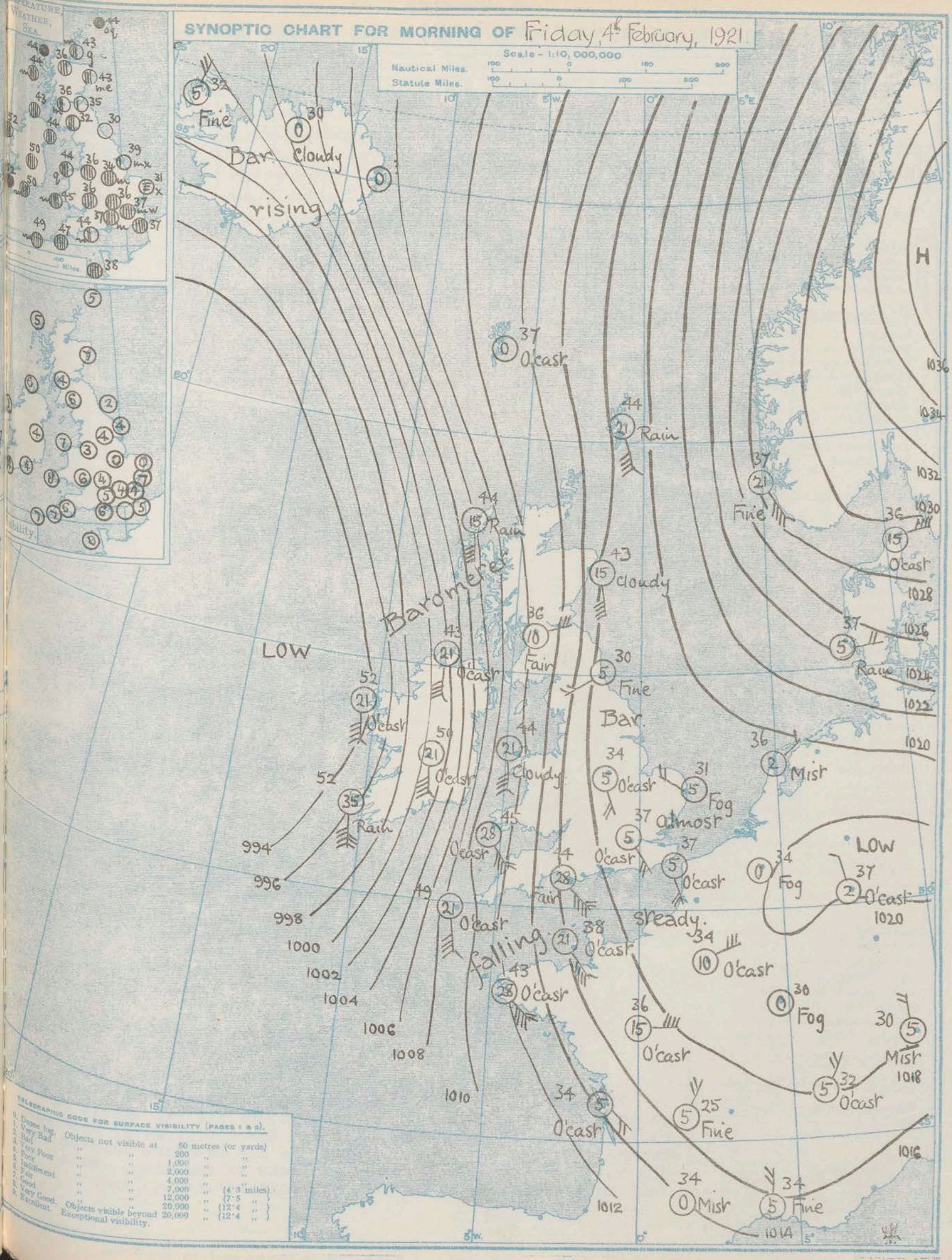
SEA DISTURBANCE.— Rough High

GENERAL INFERENCE from observations received up to 9h.

The low pressure system off our Western coasts and the anti-cyclone over Scandinavia will maintain South-Easterly to Southerly winds over the United Kingdom. Much cloud will prevail, with rain or drizzle in places.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. 4th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3 E. Midlands 4. W. Midlands	Wind South-East moderate or fresh; cloudy or overcast local rain or drizzle; visibility indifferent to fair; rather cold.	Unsettled with South-Westerly to Southerly winds.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind South-East or South, strong, reaching a gale in places; cloudy or dull some rain; visibility indifferent to fair; rather mild.	
9. N. Midlands 10. N.E. England 11. E. Scotland	As 1 - 4	
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 5 - 8	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.50. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Friday, 4th February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Fine
Bar. rising
Cloudy
O'cast
Rain
Fine
Cloudy
Fair
Fine
Bar.
Cloudy
Mist
Fog
almost
steady.
falling
LOW
H
Baromere
Mist
Fine
Fog
Rain
O'cast
1036
1034
1032
1030
1028
1026
1024
1022
1020
1018
1016
1014
1012
1010
1008
1006
1004
1002
1000
998
996
994
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. " " 20,000 " (12·4 "
9. Excellent. Objects visible beyond Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 35 ... Friday 4th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 2nd-3rd	Rainfall. Day. 9h-18h. 3rd	Sunshine. Sunrise to Sunset. 3rd
Scotland.	Banff	b	cb	42	26	-	-	4.1
England, N.E.	Harrogate	bm	bm	40	30	-	-	2.6
	Skegness	m b	bm	45	30	0.4	-	4.4
England, E.	Lowestoft ...	c bcc	cbc	44	33	-	-	3.2
	Felixstowe	bm	bz	47	31	-	-	7.9
	Southend-on-Sea...	kmbcb	b	46	31	-	-	6.3
England, S.E.	Tunbridge Wells	x bbc	bbc	46	25	-	-	5.4
	Margate	b	b	44	39	3	-	6.6
	Ramsgate	*	*	48	36	2	-	5.5
	Folkestone	foc	co	47	37	-	-	3.4
	Hastings	omc	bcb	45	34	-	-	3.1
	Eastbourne... ...	bc	co	45	32	-	-	4.6
	Brighton	bbc	co	47	35	-	-	6.2
	Worthing	b	bc	46	33	-	-	4.0
	Portsmouth (S'thsea)			45	33	-	-	3.0
	Bournemouth ...	*	*	46	31	-	-	2.7
England, N.W.	Blackpool	o	o	43	33	-	-	1.5
	Southport	coc	cbc bc	43	33	-	-	0.1
Midlands.	Leamington Spa...	of	bc	43	27	-	-	3.6
	Bath	mcbcb	bc b	45	32	-	-	3.7
Wales.	Rhyl	bc	bc	45	35	-	-	0.0
	Colwyn Bay ...	*	*	44	33	-	-	0.0
	Llandudno	*	*	44	36	-	-	0.2
	Aberystwyth ...	-	-	47	36	-	-	1.0
England, S.W.	Weymouth	c	c	48	35	0.2	-	2.9
	Torquay	oc	oco	48	44	-	-	0.0
	Paignton	o	o	48	44	-	-	0.0
	Penzance	ord	ord	51	46	3	3	0.0
	Bude	o	bc	48	37	-	-	0.0
	Ilfracombe	o	o	47	39	-	-	0.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h. 3rd	Weather. 18h-18h. 3rd	Weather. 18h 3rd-1h 4th	Weather. 1h-7h 4th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. † Day. 7h-18h mm.	Rainfall. † Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	x. o3f	o3f	co3f o2f	bcc o2f	39	30	31	-	-	0.0
Eskdalemuir	pd, obcc	bcc.2f	b.bc.b	b.bc c	37	23	25	-	-	1.8
Valencia (Cahire'n) ...	bcc bcc	bccorr.	rr	rr	53	44	44	3	13	1.0
Baldonnel	o2f o1f	orr	b. q.	o2f q.	48	43	42	2.	-	0.0
Manchester (Alex. Pk)	co4-8f o6f 2f bcc 1f	bcc2f co3f	bc c b3fx	bx3f b.bc	43	26	20	Trace	-	*
Ross on Wye... ...	o3f 2f bcc	bcc2f bbc2f	b2f w.b.bc	b bc co	43	33	28	-	-	2.5
Falmouth	odd.	dd.	rr dd. r.	oc	49	45	46	2	4	0.0
Calshot (Hants)... ...	bcc 3f co2f	co 1f. bcc2f	b.bc 1f	bcc. o	46	33	38	-	-	3.3
Lympne (Folkestone) ...	pd, rx, co 2f 1f	bcc 1f co1f	cobbc co1f	o1f o2f	45	35	26	0.2	-	3.8
Aberdeen	4-5fe 2fe	1fe 2fe	2fe	2fe 1fe	43	34	31	-	-	1.0
Howden	4-5f 2	6-8f	q 1fe	x b	34	23	15	-	-	0.0
Cranwell (Lincs)	3f. bbc	bcc 2f	4-5fe	4-5fe	44	24	19	-	0.1	0.1
Felixstowe	1f bbc	bbc 1f	b2f	4-5fe x	47	29	23	-	0.3	7.0
Shoeburyness	2fe b	1fe 2fe	6-8f x	c o	48	29	19	Trace	Trace	
Benson	4-5fe	b.	bx	b o	40	25	27	-	0.1	*
S. Farnborough ...	o 4-5f	o4-5f bc 6-8f	6-8fe 4-5fe	4-5fe o2f	39	29	23	-	0.1	1.5
London (Kew Obsy.) ...	x bo1-8f w	o4-5f o6-8fw	o6-8f w	o2f w	37	28	30	Trace	Trace	0.0
Croydon	bx 4-8f 4-5f 2f	bbc 2f 3f 4f	bx4-5f 3f b2f	b bcc o2fx o2f	48	27	27	Trace	Trace	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-32·6
12	Above 75	32·6 or above

SYMBOLS— Aurora. Rime. Glazed frost. Glazed roads. Line Squall. Solar halo. Lunar halo. Solar corona. Lunar corona. Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. † mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 4th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	f. bc	b	bcc.oxm	45	29	22	-	3.5	75	87
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	*							
Regent's Pk (Barometrical Gdns)	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rainfall)	fex	f.om	*	37	29	25	-	*	100	93
Kensington Palace	ofx	ofx	*	38	30	24	0.3	*	98 (18h)	83
Hampstead Observatory ...	*	*	*	40	32	24	Trace		*	86

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.
Average Rate.
Maximum Rate.

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

4th AND 5th FEBRUARY, 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	7.53 / 7.21	12.7 / 12.7	4.41 / 4.43
Greenwich	7.36 / 7.24	12.14 / 12.14	4.52 / 4.54
Wick ...	8.15 / 8.12	12.26 / 12.26	4.37 / 4.40
Valencia ...	8.19 / 8.17	12.35 / 12.35	5.31 / 5.33

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 0 m. to 6 h. 30 m.

Star.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	12 - 30	6 51	55
δ Ursae Minoris	12 - 30	6 44	54

NOTES ON THE WEATHER OF YESTERDAY.

Fog prevailed over a wide area and maintained cold weather at some inland stations. The temperature did not exceed 34° at Howden and 37° at Eskdalemuir and Kew Observatory, Richmond. On the East and South-East coasts the day was fine Clacton having 8.0 hours, and Felixstowe 7.9 hours of sunshine. Rain fell in the Western districts, Valencia receiving 16mm.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21, 625 SATURDAY, 5TH FEBRUARY, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. 4TH														18H. G.M.T. OF 4TH													
Renfrew	1013.4	-2	E	4	o2f	41	75	4	4200	St.Cu	8	A.St.	2	*	1013.9	+1	ESE	4	o2f	39	75	4	-	-	-	A.St.	9	*
Eskdalemuir	1015.2	-2	SSE	5	0	37	85	6	4200	St.	3	A.St.	6	*	1015.9	0	SE	2	0	34	75	6	-	-	-	A.St.	9	*
Valencia (Cahirc'n)	1003.0	+2	WNW	2	o1	47	92	6	750	St.	6	A.St.	4	4	1003.2	0	ENE	3	o1	43	92	6	750	St.	6	A.St.	4	4
Baldonnel	1007.4	0	SE	6	o9	44	85	6	1250	St.	4	A.St.	6	*	1007.7	0	SE	5	o2f	42	75	4	750	St.	7	A.St.	3	*
Manchester (Alex.Pk.)	1016.4	-2	SE	4	o2f	37	85	4	1250	St.	3	Ci.	6	*	1014.7	-1	E	4	cmq	37	85	4	2000	St.	3	A.St.	4	*
Ross on Wye	1015.7	-2	SE	4	o	41	75	6	3000	Cu	3	Ci.St.	6	*	1012.8	-1	E	2	o	38	75	6	2000	St.	1	A.St.	8	*
Falmouth	1008.2	-4	ESE	6	o	45	85	6	-	St.Cu	10	-	-	*	1005.2	-5	ESE	7	bc2fq	44	85	4	-	St.Cu	4	A.St.	1	*
Calshot (Hants) *	1015.1	-5	E	6	o1f	42	85	6	2000	St.Cu	10	-	-	5	1012.4	-3	E	6	o1f	42	92	6	1250	St.Cu	10	-	-	5
Lympne (Folkestone)	1018.5	-3	ESE	5	bc2f	37	92	5	750	St.	4	Ci.St.	2	*	1016.4	-1	E	5	o3fq	36	92	3	<500	St.	10	-	-	*
Aberdeen	1017.8	-1	SSE	1	o1f	44	65	6	1250	Cu	9	-	-	4	1017.0	0	SSE	4	c1f	43	75	6	1250	St.	8	-	-	4
Howden	1018.8	-2	SSE	3	o3f	34	97	3	<500	St.	10	-	-	*	1017.2	-1	SSE	2	o4fe	37	97	2	<500	St.	10	-	-	*
Cranwell (Lincs)	1019.3	-1	SE	3	o4f	34	97	2	<500	St.	10	-	-	*	1017.8	-1	SE	1	bc4f	34	97	2	750	St.	4	-	-	*
Felixstowe	1019.0	-3	ESE	3	o1f	42	85	6	1250	St.Cu	10	-	-	*	1018.2	-2	SE	4	o1f	40	92	6	1250	St.Cu	10	-	-	*
Shoeburyness	1018.8	-3	ESE	5	bc1fe	41	85	6	2000	St.	6	-	-	*	1017.0	-1	SE	5	c2fe	38	85	4	2000	St.	7	-	-	*
Benson	1015.7	-2	SE	4	c	40	75	5	-	Cu	4	Ci	3	*	1014.1	-3	SE	4	b	38	65	5	-	-	-	Ci	2	*
S. Farnborough	1016.9	-2	ESE	3	cm	40	85	6	2000	St.Cu	8	-	-	*	1014.4	-2	E	3	om	37	92	5	2000	St.Cu	6	Ci	3	*
London (Kew Obsy.)	1017.3	-4	ESE	4	bcz	42	75	5	4200	Cu	1	Ci	4	*	1015.4	-1	E	3	o2f	38	85	5	2000	St.Cu	9	-	-	*
Croydon	1017.9	-5	SE	5	bc1f	42	75	6	4200	Cu	1	Ci	5	*	1015.8	-1	SE	4	c3f	36	92	3	1250	St.	3	Ci.St.	5	*
	1H. G.M.T. OF 5TH														7H. G.M.T. OF 5TH													
Renfrew	1015.3	+1	ENE	3	b	38	85	5	-	-	-	A.St.	2	*	1017.8	+4	NE	3	c3f	35	92	3	4,200	St.	5	A.St.	3	*
Eskdalemuir	1016.6	+1	ESE	3	o	36	85	6	4200	St.	10	-	-	*	1018.0	+2	ENE	2	o	36	85	6	2,000	St.	9	-	-	*
Valencia (Cahirc'n)	1006.8	+2	WNW	4	omr	43	*	*	*	*	*	*	*	-4	1010.8	+6	NE	3	o	43	85	6	3,000	St.	6	A.St.	4	*
Baldonnel	1009.0	+3	SE	5	o9	42	75	4	1250	St.	10	-	-	*	1013.1	+6	SE	3	o2f	40	75	4	<500	St.	10	-	-	*
Manchester (Alex.Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.2	+3	ESE	3	o1f	37	85	4	2,000	St.Cu	5	A.St.	4	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.4	+2	E	3	o	34	85	6	1,250	St.	9	A.St.	1	*
Falmouth	1000.7	-3	E	7	o9	46	75	6	-	St.	10	-	-	*	1002.0	+3	E	7	o9	47	85	6	-	St.Cu	10	-	-	*
Calshot (Hants)	1011.0	-2	E	7	b	42	92	5	-	-	-	-	-	6	1012.0	+2	ENE	5	o2f	41	92	5	1,250	St.	4	A.St.	6	5
Lympne (Folkestone)	1015.0	-1	ESE	8	bz2f	36	92	6	<500	St.	3	-	-	*	1015.5	+1	E	6	o2fq	35	97	4	<500	St.	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.8	+2	SSE	4	o1f	42	75	7	3,000	St.Cu	10	-	-	4
Howden	1017.1	0	SE	3	o1f	38	92	5	2,000	St.	10	-	-	*	1017.8	0	ESE	3	o1f	39	92	5	2,000	St.	10	-	-	*
Cranwell (Lincs)	1017.3	0	ESE	1	o2f	36	97	5	2,000	St.	10	-	-	*	1017.3	0	ESE	3	o2f	37	92	5	750	St.	10	-	-	*
Felixstowe	1017.4	0	SE	4	o2f	40	85	4	750	St.	10	-	-	2	1017.8	+1	ESE	4	o2f	42	85	5	750	St.Cu	10	-	-	4
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.0	+1	ESE	5	o	40	75	7	3,000	St.Cu	9	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.8	+2	ENE	5	c	36	85	4	-	Cu.Nb	5	Ci	2	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.9	+2	E	3	o2f	36	92	4	1,250	St.	10	-	-	*
London (M.O. at 1H.)	1014.4	-1	*	*	*	37	*	*	*	*	*	*	*	*	1015.1	+3	E	4	o2f	37	85	5	750	Nb	10	-	-	*
Croydon	1014.7	-2	E	4	b2f	35	85	4	-	-	-	-	-	*	1015.4	+2	E	4	o2f	35	92	5	750	St.	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 4TH					7H. G.M.T. of 5TH									24 HOURS ENDED 7H. 5TH						4TH
Lerwick	1017.3	43	SSE	6	bcq	1019.9	0	43	-1	SSE	8	SE	bq	6	2	45	36	cq	cpq	bcq.bcpq	0.
Stornoway	1017.6	46	SSE	6	o9	1015.3	+4	42	-2	S	4	-	c	3	1	48	41	o	o9	o.c	0.0
Castlebay (Barrals)	1007.4	43	SE	6	op	1015.5	+5	44	0	SSE	5	-	o	6	4	44	43	opq	qop	op.o	0.0
Malin Head	1003.9	42	SSE	5	q omp	1012.5	+2	39	-4	SSE	3	-	o1f	4	1	44	39	omq	omq p	omq cq	0.0
Blacksod Point	1003.2	46	-	0	cmd	1011.6	+5	42	-10	-	0	-	omr	0	10	52	40	or	o	omr grom	*
Roche's Point	1003.2	46	SE	6	r	1010.5	+5	41	-9	NE	3	-	r	3	10	51	41	r.rm	rm odm	odm	*
Birr Castle	1005.1	44	SE	3	o	1011.8	*	39	-11	E	1	-	o	*	0.3	51	39	oq.dr	odr	o	0.0
Donaghadee	1011.1	43	SSE	5	o	1015.1	+3	42	-2	SSE	4	-	omq	4	-	44	42	cmq	omq	omq	*
Liverpool (Bidston)	1012.7	38	ESE	4	bc	1015.8	+2	36	0	ESE	3	E	o	3	-	39	35	om	bcm	c.om	0.0
Holyhead	1009.6	42	SE	5	o1fg	1012.3	+3	39	-5	E	6	-	b1f	5	-	45	37	cog	ucog	og.omb	0.0
Pembroke (St. Ann's Head)	1006.3	42	ESE	6	c	1009.1	+3	40	-5	E	5	-	o	5	-	45	40	o	oc	o.oq	0.0
Scilly (St. Mary's)	1003.0	46	ESE	6	o	1006.1	+1	47	-2	E	5	-	omq	6	3	50	44	om	om	omq	0.1
Jersey (St. Aubin)	1008.8	44	SE	6	o	1007.3	0	43	+5	SE	6	SE	bc	5	-	45	37	obo	obo	o.b.bc	4.0
Portland Bill	1008.5	43	ESE	8	om	1007.7	+2	44	0	ESE	8	E	o	7	-	45	40	bcco	om	ombc.o.	*
Dungeness	1015.4	38	SE	4	bc	1013.8	0	38	+1	SE	4	SE	bc	4	-	40	37	oc	bc	bc.bc	*
Wick	1012.8	43	SSE	9	omq	1017.4	+3	43	0	SSE	6	-	oq	6	-	44	42	bcomq	omq	ombmqbcq	*
Nairn	1012.0	40	-	0	o	1017.5	*	32	-4	-	0	-	cg	0	-	43	31	cg	cu o	o.cx	0.0
Leith	1014.4	37	SSE	3	c	1017.2	+1	40	+5	SSE	2	-	o	2	-	41	34	bc.cbc	bc.c.o.c	c.bcu.c	*
Tynemouth	1017.5	38	SW	2	bc3f	1018.6	+1	41	+10	S	1	-	o1f	3	Trace	42	29	bcm	bcf	bcm.om	*
Spurn Head	1016.9	42	SE	5	oq	1017.4	0	41	+2	ESE	5	-	oq	4	-	43	35	bm	fom	oq	*
Yarmouth (Gorleston)	1018.5	40	SE	5	bc	1017.6	0	41	+10	SE	5	-	oq	4	-	43	30	cq bcq	bcq	oq.oqd	1.6
Clacton-on Sea	1017.6	40	SE	4	o	1016.3	0	42	+6	SE	4	-	og	4	-	42	33	omg	og	og.c og	0.1
Nottingham	1016.3	36	E	3	b	1016.7	*	36	+2	ESE	3	-	bc	*	-	39	33	omc	bcc	bc.c	1.4

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p. 4

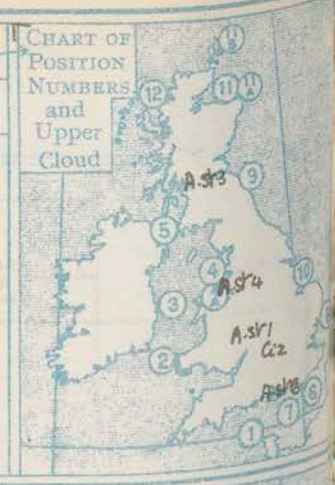
M.O FORM 2370

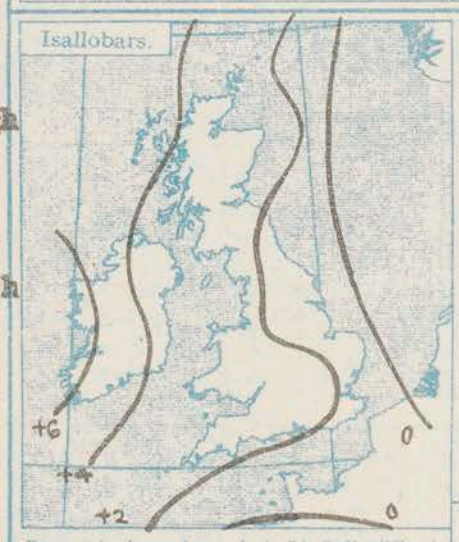
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 5. 1. 21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty, squally.	Indiff.	Mod.
2. E. England	Dull, misty, squally.	Good.	"
3. E. Midlands	Dull, misty.	Indiff.	-
4. W. Midlands	Misty.	Poor.	-
5. S.W. England	Dull, misty, squally. local rain.	Fair.	Rough.
6. South Wales	Dull.	Good.	R. Rough
7. North Wales	Fine.	"	" "
8. N.W. England	Misty.	Poor.	Slight
9. N. Midlands	Dull, misty.	Indiff.	-
10. N.E. England	Dull, misty, squally.	Fair.	Mod.
11. E. Scotland	Dull, misty, squally.	Good.	R. Rough
12. S.W. Scotland	Dull.	Fair.	Mod.
13. Isle of Man	Dull, misty, squally.	"	"
14. N.& N.W. Scotland	Cloudy, gloomy.	Good.	Smooth
15. Hebrides	Dull.	Fair.	R. Rough
16. Orkneys and Shetlands	Fine, squally.	"	Rough.
17. N.W. Ireland	Dull, misty, rainy.	"	Calm.
18. N.E. Ireland	Dull, misty, squally.	"	Mod.
19. S.E. Ireland	Rainy.	Poor.	Slight
20. S.W. Ireland	Dull.	Fair.	-

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
2	4th	0510	49	45
7	4th	0345	48	40
4A	4th	0400	45	40
5	4th	0815	47	43
3	4th	1000	47	44
1	4th	1233	49	42





Barometric change from 4 h. to 7 h. (half millibars).

EXPLANATION.

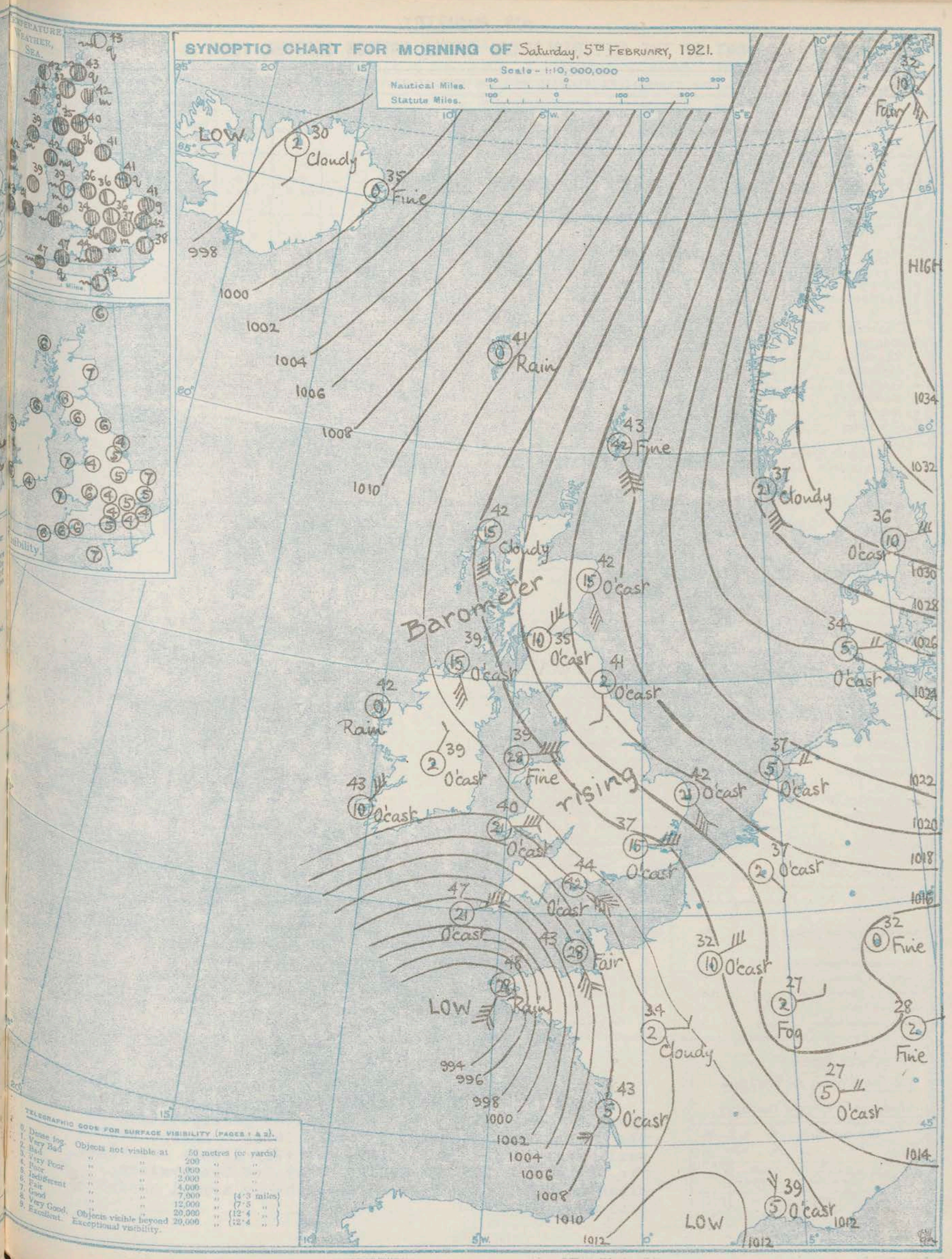
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
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.

GENERAL INFERENCE from observations received up to 9h.

The Scandinavian anticyclone is expanding over the British Isles and a depression centred off the Mouth of the Channel is moving Southward. Rather cold weather with Easterly to South-Easterly winds is probable during the next day or two.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 5th February 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind Easterly fresh or strong, then moderating; cloudy or dull, perhaps slight drizzle or sleet in places; visibility indifferent to fair; colder.	Cold for a day or two with Easterly or South-Easterly winds.
4. W. Midlands 5. S.W. England	Wind Easterly, strong to a gale, then moderating; some rain at first improving later; visibility fair; colder.	
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	As for 1 - 4	
10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind East or South-East moderate; cloudy or dull; visibility indifferent to fair, local mist; colder.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind SE moderate or fresh; cloudy or dull, local sleet or drizzle; visibility fair; colder.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly Easterly light or moderate; cloudy or overcast, rain in places; visibility indifferent to fair; colder.	

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



TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).

0. Dense fog.					
1. Very Bad	Objects not visible at	50 metres	(or yards)		
2. Bad	"	"	200	"	"
3. Very Poor	"	"	1,000	"	"
4. Poor	"	"	2,000	"	"
5. Indifferent	"	"	4,000	"	"
6. Fair	"	"	7,000	"	(4·3 miles)
7. Good	"	"	12,000	"	(7·5 ")
8. Very Good.	"	"	20,000	"	(12·4 ")
9. Excellent.	Objects visible beyond Exceptional visibility.		20,000	"	(12·4 ")

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 36 ... Saturday 5TH FEBRUARY

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 3RD-4TH	Rainfall. Day. 9h-18h. 4TH	Sunshine. Sunrise to Sunset. 4TH
Scotland.	Banff	oc	cbc	43	36	-	-	0.0
England, N.E.	Harrogate	f	f	38	25	-	-	0.0
	Skegness	fo	oco	41	30	0.2	-	0.9
England, E.	Lowestoft ...	o	oco	43	31	-	-	0.0
	Felixstowe	of	om	42	30	-	-	1.1
	Southend-on-Sea...	oc bc	bcco	43	34	-	-	3.2
England, S.E.	Tunbridge Wells	oc	bcco	40	27	-	-	1.7
	Margate	om	o	39	36	-	-	0.0
	Ramsgate	*	*	39	35	-	-	0.2
	Folkestone	fo	o	38	35	-	-	0.0
	Hastings	oc	co	41	37	-	-	0.5
	Eastbourne... ...	oc	bcc	41	38	-	-	2.1
	Brighton	oc	co	41	35	-	-	1.6
	Worthing	c	o	42	39	-	-	0.8
	Portsmouth (S'tsea)	-	-	43	40	-	-	1.6
	Bournemouth ...	*	*	42	39	-	-	0.2

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 3RD-4TH	Rainfall. Day. 9h-18h. 4TH	Sunshine. Sunrise to Sunset. 4TH
England, N.W.	Blackpool	m	co	39	34	-	-	0.7
	Southport	oc bc	bcco	39	36	-	-	0.0
Midlands.	Leamington Spa...	o	cbo	42	28	-	-	1.5
	Bath	oc	co	42	38	-	-	0.2
Wales.	Rhyl	c	c	40	36	-	-	0.0
	Colwyn Bay ...	*	*	41	35	-	-	0.2
	Llandudno	*	*	42	37	-	-	0.5
	Aberystwyth ...	-	-	48	39	-	-	0.7
England, S.W.	Weymouth	c	co	43	41	-	-	0.1
	Torquay	oc	o	45	42	-	-	0.0
	Paignton	oc	cocq	45	41	-	-	0.1
	Penzance	o	co	49	47	1	-	0.4
	Bude	b	o	43	40	-	-	2.8
	Ilfracombe	o.c	co	44	42	-	-	0.2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 4TH	Weather. 13h-18h. 4TH	Weather. 18h-1h. 4TH-5TH	Weather. 1h-7h. 5TH	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	co2f o1f	o2f	co2f bbc3f	bbcc2f3f	42	34	26	-	-	0.0
Eskdalemuir	co.o	o	o	c.o	37	31	29	-	-	0.0
Valencia (Cahire'n) ...	o1f r.r. rr	r.r. rr	rr	r.r. o	52	42	41	10	16	0.0
Baldonnel	q.r. o2f o1f	o1f q	o2f q.	o2f	45	40	35	-	-	0.0
Didsbury ...	bbc3f co2f	o3f co3f	bccq bbcb	o ω	39	30	31	-	-	*
Ross on Wye... ...	co1f bcc	oco	bc.c.o.	o.c.o.	41	33	29	-	-	1.3
Falmouth	o	obcc 2f	cq	oq	47	44	41	-	-	0.1
Calshot (Hants)... ...	o1f	o1f	b1f. b2f	b2f co1f	43	40	37	-	-	0.6
Lympne (Folkestone) ...	o2f. bcc	bcco o2f 3f	o3f co bcq bbc	b.bcc co1f o2f	38	34	34	-	-	2.2
Aberdeen	1fe o1f	o1f 1f	1fe pdo	pdo o1f	45	41	39	-	0.4	0.3
Howden	o6-8fe	4-5fe	o1f 2fe	o o1f	39	30	29	-	-	0.0
Cranwell (Lincs)	o4-5f	o4-3f 4-5fe	c.o	bc.c.o	37	31	30	o2	-	0.0
Felixstowe	o2f o1f	o1f o	o. o1f	o3f. o	43	39	37	-	-	1.5
Shoeburyness	bcc 1fe	1fe 2fe	2fe 1fe	o	41	37	35	Trace	-	2.3
Benson	oco	bbc	b.bc	bbc.co	42	35	30	-	-	*
S. Farnborough ...	oco	bcc ⊕ o2fe	c.o.b.	b.bc.c.o	42	32	27	-	-	2.6
London (Kew Obsy.) ...	wbcc2fbc	o2f 2f	o2f b	b.o2f	44	36	32	-	-	5.1
Croydon	o1f bcc2f 1f	bcc1f o2f 3f	bc.c3f b2f	b.o o2f	43	35	32	Trace	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora ☆ Rime ✕ Solar halo ⊕ Lunar halo ⊖ Glazed frost ⌇ Solar corona ⊙ Glazed roads ⌇ Lunar corona ⊙ Line Squall ⊟ Snow lying ▨

LONDON OBSERVATIONS.

24 HOURS ENDED 9h G.M.T. 5TH

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. (Yesterday.)	Humidity % 15 h. G.M.T. (Yesterday.)	Humidity % 9 h. G.M.T. (To-day.)
Greenwich (Royal Observatory)	bc o	bc	bc. o	44	34	30	-	3.7	87	86
City (Bunhill Row)	*	*	*	*	*	*	*	2.2	*	*
Westminster (St. James's Park)	*	*	*	46	36	32	-	3.4	71	83
Regent's Pk. (Botanical Gdns)	*	*	*	*	*	*	*	2.6	*	*
Camden Sq. (British Rainfall)	ce	bz	*	44	35	31	-	*	87	84
Kensington Palace	bc	c.o	*	44	37	32	-	*	91 (18h)	86
Hampstead Observatory ...	*	*	*	42	34	32	-	1.6	*	81

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... 445 ..... Joules.

	Milliwatts.
Average Rate.	11.3
Maximum Rate.	29

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

5TH AND 6TH FEBRUARY ..... 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.31 / 7.29	12.7 / 12.7	4.43 / 4.45
Greenwich	7.34 / 7.33	12.14 / 12.14	4.54 / 4.55
Wick ...	8.12 / 8.10	12.26 / 12.26	4.40 / 4.42
Valencia ...	8.17 / 8.15	12.35 / 12.35	5.33 / 5.35

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from ....18.... h. 0.... m.
to .....6..... h. 30.. m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	12 · 30	7 · 35	61
δ Ursae Minoris	12 · 30	4 · 31	36

NOTES ON THE WEATHER OF YESTERDAY.

Heavy rain fell in Ireland the measurement at Valencia reaching 26mm. There was also slight precipitation in the Hebrides Shetlands and Scilly Isles. Except over a small area in the South there was very little sunshine. The highest record was 5.2 hours at Kew Observatory, Richmond. Temperature was rather below normal except in Ireland.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION. No. B. 21,626 Sunday 6th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1h, 7h, 13h AND 18h.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13h. G.M.T. 5													
Renfrew	1021.8	+4	NE	2	03f	39	95	3	-	-	-	A.St.	10	*
Eskdalemuir	1021.5	+3	SE	3	0	39	85	6	2000	St.	10	-	-	*
Valencia (Cahirc'n)	1015.9	+3	NNE	3	c1f	45	75	7	2000	St.Cu.	7	-	-	3
Baldonnel	1016.9	+3	SE	4	bc1f	45	65	6	4300	Cu.	2	A.St.	3	*
Manchester (Alex. Pk.)	1019.9	+3	ESE	3	03f	41	85	4	2000	St.	10	-	-	*
Ross on Wye	1017.2	+3	E	3	0	40	75	6	-	-	-	Ci.	9	*
Falmouth	1009.2	+7	E	7	0	46	92	6	-	Nb	10	-	-	*
Calshot (Hants)	1016.3	+5	E	6	02f	44	85	5	2000	St.Cu.	9	-	-	5
Lympne (Folkestone)	1017.4	+2	E	4	01f	40	75	6	2000	St.Cu.	10	-	-	*
Aberdeen	1022.8	+2	SSE	4	01fe	44	76	7	2000	Cu.	7	C.St.	1	4
Howden	1021.4	+2	ESE	2	01f	40	85	6	3000	St.	10	-	-	*
Cranwell (Lincs)	1020.6	+3	ENE	1	01f	40	85	6	2000	St.	10	-	-	*
Felixstowe	1019.7	+2	ESE	4	0	41	75	7	3000	St.	10	-	-	4
Shoeburyness	1018.4	+3	E	3	0	42	75	7	2000	St.	10	-	-	*
Benson	1017.5	+3	ESE	1	bc	42	75	4	-	Cu.	3	-	-	*
S. Farnborough	1017.3	+5	E	3	c	40	85	5	1250	St.Cu.	7	Ci.	1	*
London (Kew Obsy.)	1017.9	+2	E	4	02f	42	65	4	3000	St.Cu.	10	-	-	*
Croydon	1018.1	+3	E	5	01f	42	75	6	750	St.	10	-	-	*
	1h. G.M.T. of 6													
Renfrew	1026.3	+3	ESE	1	01f	38	85	6	3,000	St.	10	-	-	*
Eskdalemuir	1026.3	+2	SE	3	0	36	75	6	2000	St.	10	-	-	*
Valencia (Cahirc'n)	1019.8	+2	SSW	3	0	43	*	*	*	*	*	*	*	3
Baldonnel	1022.5	+3	S	2	bc	32	85	4	4200	St.Cu.	8	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1019.0	+2	ENE	5	c	43	85	6	-	St.	8	-	-	*
Calshot (Hants)	1021.8	+2	NE	4	01f	40	92	6	2000	St.	10	-	-	3
Lympne (Folkestone)	1021.6	+1	ENE	3	01f	38	85	6	1250	St.	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1025.4	+4	E	1	03fd	38	92	6	3,000	St.	7	A.St.	3	*
Cranwell (Lincs)	1024.8	+2	ENE	1	02f	38	92	5	2000	St.	10	-	-	*
Felixstowe	1023.4	+2	ENE	4	0	40	85	7	3,000	St.	10	-	-	4
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1h.)	1022.1	+2	*	*	*	41	*	*	*	*	*	*	*	*
Croydon	1022.5	+1	ENE	3	01f	39	85	6	2,000	St.Cu.	10	-	-	*

STATIONS.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18h. G.M.T. of 5													
Renfrew	1023.2	+3	ENE	2	03f	40	92	3	4200	St.Cu.	10	-	-	*
Eskdalemuir	1023.3	+3	E	2	02f	38	85	5	-	St.Cu.	10	-	-	*
Valencia (Cahirc'n)	1017.7	+4	E	1	01f	44	75	6	5700	St.Cu.	9	-	-	3
Baldonnel	1019.4	+6	-	0	b	37	85	4	-	-	-	A.St.	1	*
Manchester (Alex. Pk.)	1020.7	+2	E	2	0m	40	75	4	2000	St.	10	-	-	*
Ross on Wye	1019.3	+3	ENE	3	02f	39	85	5	2000	St.Cu.	10	-	-	*
Falmouth	1014.2	+7	ENE	7	02f	46	85	5	-	St.	10	-	-	*
Calshot (Hants)	1018.2	+4	ENE	4	b1f	40	85	6	-	-	-	A.St.	1	3
Lympne (Folkestone)	1018.8	+1	E	4	01f	38	85	6	1250	St.Cu.	10	-	-	*
Aberdeen	1024.5	+3	S	3	01f	42	85	6	2000	St.	10	-	-	4
Howden	1022.9	+2	ESE	2	0	39	85	6	3000	St.	10	-	-	*
Cranwell (Lincs)	1022.4	+3	ENE	1	01f	38	85	6	2000	St.	10	-	-	*
Felixstowe	1020.7	+1	ENE	4	0	42	85	7	2000	St.	10	-	-	4
Shoeburyness	1019.5	+2	ENE	3	0	41	75	7	2000	St.	10	-	-	*
Benson	1019.4	+3	SE	2	0	42	75	4	-	St.	10	-	-	*
S. Farnborough	1019.1	+2	ENE	4	02f	39	75	5	1250	St.Cu.	10	-	-	*
London (Kew Obsy.)	1019.5	+3	NE	4	02f	41	65	4	3000	St.Cu.	10	-	-	*
Croydon	1019.7	+2	E	4	02f	39	85	5	2000	St.Cu.	10	-	-	*
	7h. G.M.T. of 6													
Renfrew	1027.2	+2	E	1	01f	38	85	6	2,000	St.	10	-	-	*
Eskdalemuir	1027.6	+2	-	0	0	35	85	6	2,000	St.	10	-	-	*
Valencia (Cahirc'n)	1019.6	0	ESE	4	03	41	85	6	3,000	St.Cu.	6	A.St.	4	*
Baldonnel	1020.0	+4	S	3	02f	39	90	4	<300	St.	10	-	-	*
Manchester (Alex. Pk.)	1025.4	+2	ESE	3	02f	40	86	5	1250	St.Cu.	10	-	-	*
Ross on Wye	1024.1	+2	ENE	3	0	37	85	7	2000	St.	10	-	-	*
Falmouth	1021.1	+2	NE	3	0	39	92	6	-	St.Cu.	9	-	-	*
Calshot (Hants)	1023.3	+2	NE	4	01f	40	85	6	2,000	St.	10	-	-	3
Lympne (Folkestone)	1023.0	+2	NE	4	01f	37	85	7	1250	St.	10	-	-	*
Aberdeen	1028.5	+2	SSE	2	01f	41	85	6	4,000	St.	10	-	-	3
Howden	1026.4	+1	NE	1	01f	37	92	6	3,000	St.	10	-	-	*
Cranwell (Lincs)	1025.9	+1	NE	1	0d	38	92	6	1250	St.	10	-	-	*
Felixstowe	1024.8	+4	ENE	4	0	38	85	7	3,000	St.	10	-	-	3
Shoeburyness	1023.9	+2	E	5	0	38	85	7	2,000	St.	10	-	-	*
Benson	1023.7	+2	NE	1	09	37	85	5	-	St.	10	-	-	*
S. Farnborough	1023.2	+2	ENE	3	02f	38	85	5	1250	Nb	10	-	-	*
London (M.O. at 1h.)	1023.9	+2	NE	3	02f	39	85	5	1250	St.Cu.	7	A.St.	3	*
Croydon	1023.8	+2	NE	3	02f	38	85	4	750	St.	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7h. AND 18h.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18h. G.M.T. of 5					7h. G.M.T. of 6									24 HOURS ENDED 7h. 6						5
Lerwick	1023.6	44	SW	3	cm.	1027.5	+2	44	+1	S	2	-	bm	1	1	44	41	cq	cm	cm. bm	*
Stornoway	1022.7	43	SW	1	0	1020.0	+1	35	-7	-	0	-	bc	0	-	44	31	0	0	bc. b. bc	0.2
Castlebay (Barra Is)	1022.0	43	SE	4	b	1023.9	0	43	-1	SE	4	-	0	4	-	44	43	0	0 c b	b. o. b. o	0.0
Malin Head	1019.5	41	ESE	2	b	1021.8	0	41	+2	SE	3		3f	2	-	43	36	bcm	bcm	bcm. bm	4.6
Blacksod Point	1017.8	44	NE	2	bc	1019.5	0	40	-2	SE	3	-	bc	3	1	42	38	ot	bc	b. bc	*
Roche's Point	1017.7	43	NE	2	0	1022.0	+1	43	+2	SE	4	-	0	4	0.4	44	40	dmoz	oz	od. o3	*
Birr Castle	1019.1	40	NE	1	b	1022.6	*	37	-2	NE	1	-	bc	*	-	46	30	o. bc	bc	bcx	4.7
Donaghadee	1020.7	43	ESE	3	cm	1024.8	+1	42	0	SSE	3	-	0m	4	-	45	41	omq	cm	0m	*
Liverpool (Bidston)	1020.9	40	ESE	4	0	1025.4	+1	39	0	ESE	2	-	0	3	-	42	36	obcm	om	om	0.0
Holyhead	1018.3	41	ENE	5	b1f	1024.0	+2	41	+2	SSE	2	-	cq	1	-	46	37	bbcz	bf	b. ogm. c	6.5
Pembroke (St. Ann's Head)	1017.5	43	E	4	c1f	1023.2	+1	38	-2	ESE	3	-	0	3	-	44	36	oc	cm	cm. bm	9.3
Scilly (St. Mary's)	1011.7	48	E	4	0	1019.9	+1	45	-2	E	3	SE	0	5	2	49	41	orma	opmq	om	0.0
Jersey (St. Aubin)	1014.0	44	ENE	4	bc	1020.3	+1	40	-3	ENE	4	-	0	4	-	48	35	bcc	cbbc	c. bwc. o	3.5
Portland Bill	1014.7	42	E	8	c	1020.2	0	42	-2	ENE	6	E	0	6	-	44	39	obc	bcc	c bm b. o	*
Dungeness	1018.0	41	ESE	4	c	1021.6	+2	40	+2	ESE	4	SE	c	4	-	44	38	bc	bcc	bc. b c. o. c	*
Wick	1021.8	42	S	4	cm	1025.4	+2	41	-2	SSW	4	-	0	3	-	44	39	ocq	cq	cm. b. o	*
Nairn	1022.6	34	-	0	c	1026.3	*	30	-2	-	0	-	bc	0	-	44	24	c	bc	c. bcm	2.2
Leith	1022.0	41	S	1	0	1027.0	+1	39	-3	E	1	-	0	1	-	44	38	o.c.o	o.com.o	og.o	*
Tynemouth	1023.3	41	SE	2	01f	1027.0	0	40	-1	SE	3	-	0	3	1	42	39	oma	om	bcmomp	*
Spurn Head	1021.9	42	SE	4	0V	1025.2	+1	41	0	E	4	-	0	3	4	42	34	oq	oq	o. op. bm	*
Yarmouth (Gorleston)	1021.1	42	E	5	0	1024.5	+1	38	-3	E	5	-	oq	4	-	42	37	oq	oq	op. o. q	0.0
Clacton-on Sea	1019.9	42	ENE	4	0	1022.6	+2	39	-3	ENE	5	-	oq	?	-	42	39	og	og	og	0.0
Nottingham	1021.9	39	E	2	0	1025.4	*	36	+2	E	2	E	0	4	-	40	34	com	om	0	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p. 4.

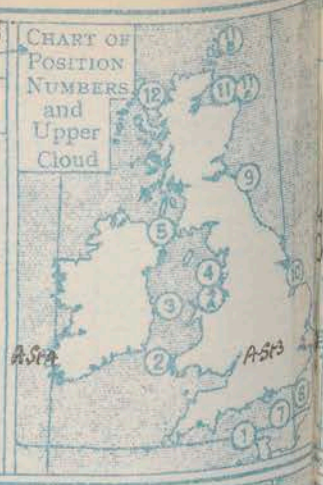
M.O. FORM 2370

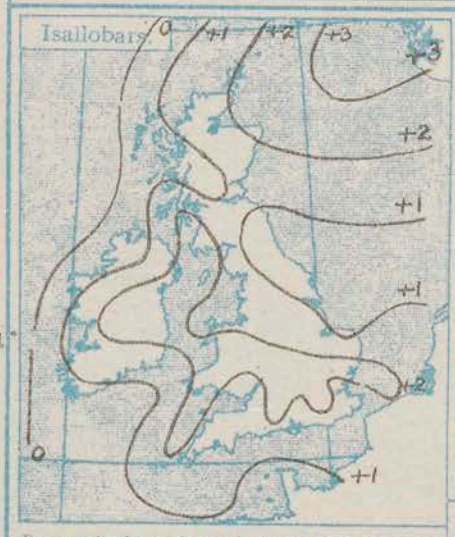
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 6. 2. 21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty, slight local drizzle.	Fair.	Mod.
2. E. England	Dull, local drizzle.	Good.	Slight
3. E. Midlands	Dull.	Indif.	–
4. W. Midlands	Dull.	Fair.	–
5. S.W. England	Dull.	"	R. Rough
6. South Wales	Dull.	Good.	Slight
7. North Wales	Cloudy.	Fair.	Smooth
8. N.W. England	Dull local mist.	Fair.	Slight
9. N. Midlands	Dull local mist.	"	–
10. N.E. England	Dull.	Good.	Slight
11. E. Scotland	Fair to dull.	Fair.	Smooth
12. S.W. Scotland	Dull.	"	Slight
13. Isle of Man	Cloudy or dull.	"	"
14. N. & N.W. Scotland	Fair to dull.	"	Smooth
15. Hebrides	Fair to dull.	"	Slight
16. Orkneys and Shetlands	Dull, misty.	"	V. Smooth
17. N.W. Ireland	Fair.	Good.	Slight
18. N.E. Ireland	Fine to dull, slight mist	Fair.	"
19. S.E. Ireland	Fair to dull, local mist.	Indif.	"
20. S.W. Ireland	Dull, local haze.	Fair.	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
2	5th	0210	46	44
4n	5th	0445	45	40
7	5th	0310	46	43
12	5th	0500	46	45
5	5th	0820	47	43
3	5th	1010	48	44
6	5th	1500	49	46
2	6th	0205	48	41





Barometric change from 4 h. to 7 h. (half millibars).

EXPLANATION.

BAROMETER.—Isobars are drawn at 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 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.

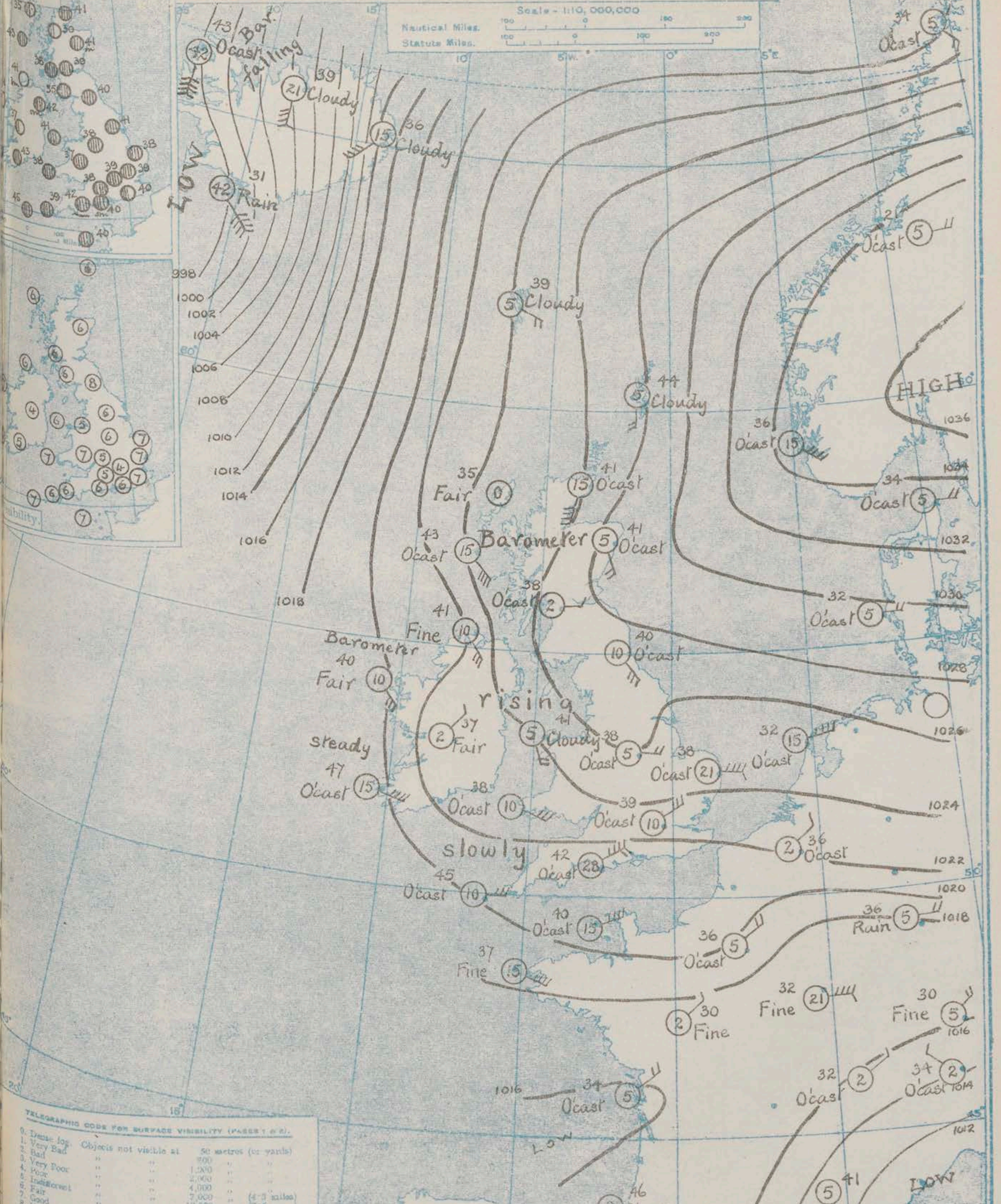
SEA DISTURBANCE.— Rough High

GENERAL INFERENCE from observations received up to 9h.

A large anticyclone centred over Northern Scandinavia is likely to control the weather over the British Isles during the next day or two, maintaining Easterly winds in the South and South-Easterly winds in the North, with rather cold and for the most part cloudy weather, and little or no rain.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 6th February 1921.	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	Moderate to fresh Easterly winds; much low cloud; visibility fair to good; cold.	The cold Easterly type will probably continue for two days, perhaps for an even longer period.
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 to fresh South-Easterly winds; varying amount of low cloud; visibility fair to good; cold.	
19. S.E. Ireland 20. S.W. Ireland	SAME AS 1 – 9	

SYNOPTIC CHART FOR MORNING OF Sunday, 6th February, 1921.



TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).

0. Dense fog.	Objects not visible at	50 metres (or yards)
1. Very Bad	" "	200 " "
2. Bad	" "	500 " "
3. Very Poor	" "	1,000 " "
4. Poor	" "	2,000 " "
5. Indifferent	" "	4,000 " "
6. Fair	" "	7,000 " (4·3 miles)
7. Good	" "	12,000 " (7·5 ")
8. Very Good.	Objects visible beyond	20,000 " (12·4 ")
9. Excellent.	Exceptional visibility.	

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 37

6th FEBRUARY — Sunday

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 5h

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 4h-5h	Rainfall. Day. 9h-18h. 5h	Sunshine. Sunrise to Sunset. 5h
Scotland.	Banff	c	oc bc	43	40	-	-	0.7
England, N.E.	Harrogate	om	o	38	33	-	-	0.0
	Skegness	o	o	42	39	-	-	0.0
England, E.	Lowestoft	o	o	42	38	-	-	0.0
	Felixstowe	om	om	42	39	-	-	0.0
	Southend-on-Sea	oco	o	42	36	-	-	0.0
England, S.E.	Tunbridge Wells	o	bc.o	44	35	-	-	0.6
	Margate	o	o	42	37	-	-	0.0
	Ramsgate	*	*	41	36	-	-	0.0
	Folkestone	bbco	o	42	35	-	-	2.3
	Hastings	oc	bcc	42	37	*	-	1.1
	Eastbourne	o	oco	44	39	-	-	0.4
	Brighton	o	oc bcb	43	37	-	-	0.3
	Worthing	obc	bc b	44	39	-	-	1.2
	Portsmouth (S'thsea)							
	Bournemouth	*	*	45	39	-	-	2.2

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 4-5	Rainfall. Day. 9h-18h. 5	Sunshine. Sunrise to Sunset. 5h
England, N.W.	Blackpool	c	o	42	35	-	-	0.0
	Southport	oco	o	41	34	-	-	0.0
Midlands.	Leamington Spa	bc	o	42	34	-	-	2.8
	Bath	co	ocbcb	42	37	-	-	0.7
Wales.	Rhyl	bcc	bcc	45	36	-	-	0.0
	Colwyn Bay	*	*	42	35	-	-	1.5
	Llandudno	*	*	43	36	-	-	1.3
	Aberystwyth	*	*	47	38	-	-	3.5
England, S.W.	Weymouth	cq	cq	47	42	-	-	2.8
	Torquay	o	c	46	43	-	-	0.0
	Paignton							
	Penzance	oq	coq	48	46	q2	-	0.0
	Bude	f	o	46	42	-	-	0.4
	Ilfracombe	oc	cbc	45	41	-	-	1.2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 5h	Weather. 13h-18h. 5h	Weather. 18h 5h-1h. 6h	Weather. 1h-7h. 6h	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	co 3f	o.3f	03f 02f 02f	01f	42	34	24	-		0.0
Eskdalemuir	o	o.02f	o	o	40	34	32	-	-	0.0
Valencia (Cahirc'n)	oco	beco.01f	03	03	47	42	42	-	-	2.0
Baldonnel	02f bcc1fbc	bbc 2f	6 4-5f 3f x	c.0. 02f	45	30	31	-	-	5.8
Manchester (Alex. Pk.)	02f o	o. 03f	02f	02f 2f	41	34	33	-	-	*
Ross on Wye	01f co1f	01f 02f	01f. 02f	01f. o	41	34	35	-	-	0.0
Falmouth	09 r.	o.02f	0.04 5f	c.o	47	38	34	1	?	0.0
Calshot (Hants)	02f co2f	02f co1f 2f	b. bc1f c.01f	1.0 4f	44	34	34	-	-	4.1
Lympne (Folkestone)	co9 2f 1f	01f	01f	01f	41	35	35	-	-	2.3
Aberdeen	pd. 1fc	1f 01f.	01f. pd.	01f	44	39	34	-	TRACE	0.3
Howden	02f.	o. 01f.	02f. p.	01f p.	41	34	35	-	0.4	0.0
Cranwell (Lincs)	02f 01f	01f	0	02f. 01f	40	36	35	-	-	0.0
Felixstowe	02f. 01f	0	0	0	43	34	34	-	-	0.0
Shoeburyness	o	0	0	0	42	34	34	-	-	0.0
Benson	bbc	o	0	0	43	35	36	-	-	*
S. Farnborough	02f co	co 02f		02f pd.	40	35	35	-	-	0.0
London (Kew Obsy.)	02f co	02f.	02f	02f	43	37	38	-	-	0.2
Croydon	02f co bcc 01f	01f 02f	02f. 01f. pd.	01f pd. 02f pd.	43	35	36	-	TRACE	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.
Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·4
1	1- 3	0·4- 1·5
2	4- 7	1·6- 3·4
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora; Rime; Glazed frost; Glazed roads; Line Squall; Solar halo; Lunar halo; Solar corona; Lunar corona; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. Yesterday.	Humidity % 15 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	24 HOURS ENDED 9h G.M.T. 6									
Greenwich (Royal Observatory)	o. 6. o	o	o	43	34	34	-	1.1	72	85
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	oc	44	39	36			÷	79
Regents Pk. (Botanical Gdns.)						*		0.5		
Camden Sq. (British Rainfall)	0	o	*	43	39	36	-	*	76	83
Kensington Palace			*					*	72 (18h)	
Hampstead Observatory	*	*	*	40	39	35	-	0.1	*	79

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.
Average Rate.
Maximum Rate.

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

6th & 7th FEBY. 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.29 / 7.27	12.7 / 12.7	4.45 / 4.47
Greenwich	7.33 / 7.31	12.14 / 12.14	4.55 / 4.57
Wick	8.10 / 8.8	12.26 / 12.26	4.43 / 4.44
Valencia	8.15 / 8.13	12.23 / 12.25	5.38 / 5.37

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

Star.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris			
δ Ursae Minoris			

NOTES ON THE WEATHER OF YESTERDAY.

The temperature everywhere exceeded 40° but did not in many cases rise above 45°. There was a slight frost at night at Nairn. Some rain fell at a few coastal stations both in the East and West, and showers during the night at Spurn Head yielded a total fall of 4mm. In the Western half of the Kingdom there were a few moderately good records of bright sunshine amounting to as much as 6 hours locally near the Irish Sea, but over Eastern England the sky was for the most part overcast.

* Information for these columns not usually received.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21,627. Monday 7th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS	Barom. at M.S.L. mb.	§ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
13H. G.M.T. 6th														
Renfrew	1028·5	0	ESE	2	02f	40	85	4	4,200	Sr Cu	10	-	·	✱
Eskdalemuir	1028·7	+1	SE	3	0	38	85	6	2,000	St	10	-	·	✱
Valencia (Cahirc'n)	1020·6	+1	ESE	5	02	47	75	6	2,000	Sr Cu	10	-	·	3
Baldonnel	1025·4	+1	ESE	5	bcq	44	65	5	3,000	Sr Cu	4	A Sr	1	✱
Manchester (Alex. Pk)	1026·9	0	E	4	01f	40	85	6	1250	Sr Cu	10	-	·	÷
Ross on Wye	1025·5	+1	E	3	01f	38	85	7	2,000	Sr	10	-	·	✱
Falmouth	1021·5	0	ENE	4	bc2f	44	85	5	-	Sr Cu	5	A Cu	2	✱
Calshot (Hants)	1024·5	+1	NNE	4	01f	39	85	6	2000	Sr	10	-	·	3
Lympne (Folkestone)	1024·4	+1	NE	5	01fg	36	85	6	1250	Sr	10	-	·	✱
Aberdeen	1029·4	+1	S	3	01f	42	[illegible]	7	2,000	Sr Cu	10	-	·	3
Howden	1028·3	0	ESE	3	od0m	38	92	3	2000	Nb	10	-	·	✱
Cranwell (Lincs)	1027·7	+1	ENE	1	od	37	92	6	1,250	Nb	10	-	·	÷
Felixstowe	1026·0	0	NE	4	01f	36	92	5	1250	Sr	10	-	·	3
Shoeburyness	1025·0	+1	ENE	3	0	37	85	7	1250	Sr	10	-	·	✱
Benson	1025·7	+2	NE	3	0	37	85	6	-	St	10	-	-	✱
S. Farnborough	1024·7	+1	NE	3	03fg	37	85	3	<500	Sr	10	-	·	✱
London (Kew Obsy.)	1025·5	0	NE	3	od0mg	37	85	3	2000	Nb	10	-	·	✱
Croydon	1025·3	+1	ENE	4	od03f	37	85	3	750	Sr	10	-	·	✱
1H. G.M.T. OF 7th														
Renfrew	1029·7	0	SE	2	02f	38	85	5	3,000	Sr	10	-	·	÷
Eskdalemuir	1029·6	0	ESE	3	0	34	85	6	2,000	Sr	10	-	·	✱
Valencia (Cahirc'n)	1020·5	0	SSE	3	bc	45	✱	✱	✱	✱	✱	✱	✱	2
Baldonnel	1026·6	+1	E	3	02f	39	75	4	2000	Sr	10	-	-	✱
Manchester (Alex. Pk)	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Ross on Wye	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Falmouth	1025·0	0	NE	3	02f	38	85	5	·	Sr	10	-	·	×
Calshot (Hants)	1025·9	0	NNE	3	01f	36	85	5	1,000	Sr	10	-	·	2
Lympne (Folkestone)	1024·5	0	NNE	3	02f	35	85	5	750	Sr	10	-	·	✱
Aberdeen	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Howden	1028·8	0	NE	1	0	35	92	7	2,000	Sr	10	-	·	✱
Cranwell (Lincs)	1027·9	0	NE	1	02f	34	97	5	2,000	Sr Cu	10	-	·	✱
Felixstowe	1026·3	0	ENE	4	01f	38	85	5	1250	Sr	10	-	·	3
Shoeburyness	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Benson	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
S. Farnborough	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
London (M.O. at 1H.)	1026·0	0	✱	✱	✱	36	✱	✱	✱	✱	✱	✱	✱	✱
Croydon	1026·2	0	NE	4	od01f	34	92	6	750	Nb	10	-	·	✱

STATIONS	Barom. at M.S.L. mb.	§ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
18H. G.M.T. OF 6th														
Renfrew	1028·7	0	ESE	3	02f	40	86	4	3,000	St Cu	10	-	-	✱
Eskdalemuir	1028·7	0	ESE	3	0	36	85	5	-	St Cu	10	-	-	✱
Valencia (Cahirc'n)	1020·1	0	SE	5	0	47	75	6	3,000	St Cu	7	a St	2	3
Baldonnel	1025·6	0	SE	4	0q/	39	85	5	3,000	St Cu	10	-	-	✱
Manchester (Alex. Pk)	1027·6	+1	E	2	03f	38	85	3	2,000	St Cu	10	-	-	×
Ross on Wye	1026·1	+1	ENE	3	0	36	85	7	2,000	St	10	-	-	✱
Falmouth	1023·5	+1	ENE	3	02f	42	75	4	-	St Cu	8	a St	1	✱
Calshot (Hants)	1024·1	-1	NE	4	01f	38	92	6	2,000	St	10	-	-	3
Lympne (Folkestone)	1024·1	0	NE	5	od03fg	34	97	4	750	Nb	10	-	-	✱
Aberdeen	1030·2	+1	SSE	3	01f	40	85	7	2,000	Nb	10	-	-	3
Howden	1028·3	0	ESE	3	od0	36	92	8	3,000	St	10	-	-	✱
Cranwell (Lincs)	1027·6	0	NE	1	od0	36	97	5	1,250	Nb	10	-	-	÷
Felixstowe	1026·1	0	NE	4	01f	37	85	5	1250	St	10	-	-	3
Shoeburyness	1025·3	0	ENE	5	0	36	85	7	1,250	Nb	10	-	-	✱
Benson	1025·8	0	ENE	4	0	35	85	6	-	St	10	-	-	✱
S. Farnborough	1025·0	0	E	2	od0m	38	92	3	1,250	Nb	10	-	-	✱
London (Kew Obsy.)	1025·9	0	NE	4	od0m	36	85	4	1,250	Nb	6	a St	4	✱
Croydon	1025·9	0	NE	4	0TS2f	35	92	4	750	Nb	10	-	-	✱
7H. G.M.T. OF 7th														
Renfrew	1028·4	-2	ESE	2	02f	36	85	5	3,000	Sr	10	-	-	÷
Eskdalemuir	1028·4	-1	ENE	2	0	33	92	6	2,000	Sr	10	-	·	✱
Valencia (Cahirc'n)	1018·6	-1	SE	5	02	47	65	7	5,700	Sr	10	-	-	÷
Baldonnel	1025·3	-1	S	4	01f	37	85	6	750	Sr Cu	10	-	-	✱
Manchester (Alex. Pk)	1027·6	-1	ENE	3	od03f	36	85	3	1250	Sr Cu	10	-	·	÷
Ross on Wye	1026·7	-2	ENE	2	0f0b	34	85	8	3,000	Sr Cu	10	-	-	✱
Falmouth	1023·6	-1	NE	3	01f	38	85	5	-	Sr Cu	10	-	-	✱
Calshot (Hants)	1023·6	?	NNE	3	0	35	85	8	1,000	Sr Cu	10	-	-	2
Lympne (Folkestone)	1023·6	0	NNE	2	01f	35	97	6	750	Sr	10	-	-	✱
Aberdeen	1030·2	0	SSE	4	01fe	38	85	7	2,000	Sr Cu	10	-	-	3
Howden	1027·5	-1	ENE	1	0m	36	92	5	2,000	Sr	10	-	·	✱
Cranwell (Lincs)	1027·0	-1	N	1	02f	33	97	5	3,000	Sr Cu	10	-	·	✱
Felixstowe	1024·8	-1	NE	4	01f	38	85	6	1,250	Sr Cu	10	-	·	3
Shoeburyness	1024·2	-1	NE	1	0	37	75	7	2000	Cu	7	A St	3	✱
Benson	1024·5	-1	NE	2	0	34	85	6	-	Sr	10	-	·	✱
S. Farnborough	1024·7	-1	-	0	02f	34	85	5	750	Sr Cu	10	-	·	✱
London (M.O. at 1H.)	1024·7	-1	NNE	3	02f	36	85	4	1250	Sr	10	-	·	✱
Croydon	1025·2	0	NE	2	od03f	35	85	3	750	Nb	10	-	·	✱

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	Barom. at M.S.L. mb. (18H. G.M.T. of 6th)	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	Barometer at M.S.L. mb. (7H. G.M.T. of 7th)	‡ Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	† Rainfall mm. (24 hours ended 7H. 7th)	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (6th)
Lerwick	1031·2	42	SSE	4	cq/	1030·6	-1	39	-5	SSE	5	SE	cq	3	1	44	38	c.	cq/	cq bcq cq	÷
Stornoway	1026·5	41	S	2	c	1025·6	0	40	+5	S	4	-	bo	3	-	44	34	bc.c	c.	c.o	0·5
Castlebay (Barra Is)	1024·8	43	E	5	o	1024·0	0	43	0	SE	5	·	0	5	-	44	42	o.	o	o	0·0
Malin Head	1023·7	39	SE	3	o1f	1023·2	0	38	-3	ESE	3	·	o1f	3	-	42	35	bcm	cm	om	3·6
Blacksod Point	1020·3	43	SE	5	bc	1020·3	0	41	+1	SE	5	·	c	5	-	46	40	bc.	bc	bc. b. bc	✱
Roche's Point	1023·1	46	SE	4	o	1023·0	0	44	+1	SE	5	·	0	5	·	46	43	oz	oz	og	✱
Birr Castle	1023·9	41	ESE	1	bc	1022·8	✱	38	+4	ESE	3	·	0	✱	·	44	35	bc	bcf.o	o	6·1
Donaghadee	1026·2	42	SSE	3	cm	1025·9	-1	40	-2	SSE	3	·	cmg	4	-	43	41	om	om	om	✱
Liverpool (Bidston)	1027·3	38	ESE	2	o	1026·6	-1	37	-2	ESE	2	-	om	2	-	40	36	om	om	om	0·0
Holyhead	1026·0	40	E	4	og1f	1025·8	-1	37	-4	SE	2	-	og	1	-	41	35	c.og	og	og	0·0
Pembroke (St. Ann's Head)	1025·2	40	E	3	o	1025·1	-1	36	-2	E	3	-	o	3	-	41	36	o.om.	om	om.o	0·0
Scilly (St. Mary's)	1021·4	46	ESE	4	c1f	1023·0	-1	43	-2	E	1	·	0	4	-	49	42	o.bc.cm	cm	c.om.o	2·4
Jersey (St. Aubin)	1022·1	41	ENE	4	o	1022·3	0	40	0	E	4	·	0	3	·	42	40	o	o	o	0·0
Portland Bill	1023·9	39	ENE	5	o	1024·9	0	37	-5	NE	4	NE	0	?	-	42	35	o.	om	om.o.c.o	✱
Dungeness	1023·0	37	E	4	o	1023·8	0	37	-3	E	3	E	c	3	·	40	37	c.	c.o	o.c	✱
Wick	1028·1	41	SSE	4	oq/	1028·8	0	40	-1	SSE	6	·	bcq	5	-	44	38	oq/.	oq/	o bcq	✱
Nairn	1027·9	35	-	0	bc	1027·8	✱	30	0	-	0	·	bc	0	-	42	28	bc	bc	bcx	7·0
Leith	1028·5	39	SE	1	r	1028·8	0	37	-2	SE	1	-	0	1	0·2	42	36	om.o	omd	dm.e	✱
Tynemouth	1029·9	39	ESE	3	T2-3f	1028·9	-1	37	-3	SE	3	·	r02-3f	3	1	41	33	op.	omr	omp om.cm	✱
Spurn Head	1026·6	38	E	5	op.	1026·5	-1	37	-4	E	5	-	oq/ps	3	2	41	32	o.c.b	o.c.b	oqvp. oqps	✱
Yarmouth (Gorleston)	1026·6	36	E	5	o	1025·3	0	37	-1	E	4	-	org	3	0·4	38	36	oq/·	oq/rs	oqv oq/ps	0·0
Clacton-on-Sea	1025·4	36	ENE	3	o	1024·2	0	39	0	NE	3	·	0	2	0·1	39	36	og.	og pd.	og	0·0
Nottingham	1027·5	37	E	3	o	1026·6	✱	34	-4	ENE	1	E	om	✱	0·3	38	34	od	op	bc	0·0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

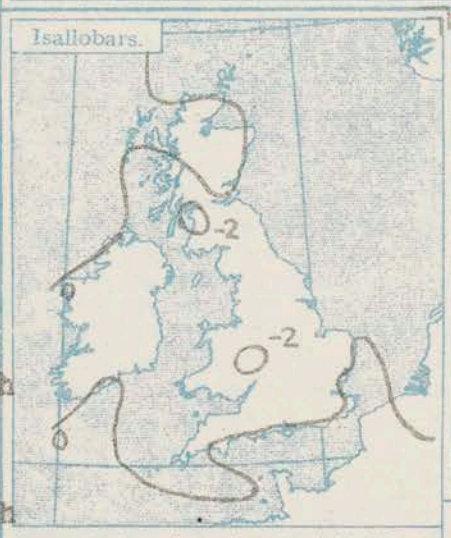
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 7.2.1921.

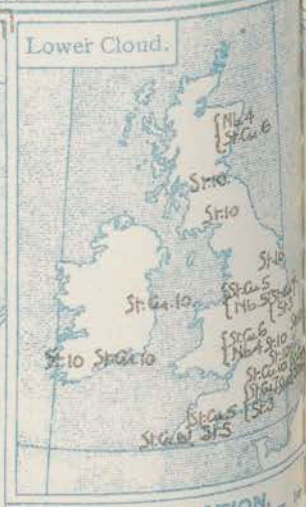
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, local mist & drizzle.	Var.	Slight
2. E. England	Dull, local drizzle.	Good	"
3. E. Midlands	Dull, local mist.	Indiff.	-
4. W. Midlands	Dull, slight drizzle or hail.	Fair	-
5. S.W. England	Dull, local mist.	"	Slight
6. South Wales	Dull.	Good	"
7. North Wales	Dull.	Fair	Smooth
8. N.W. England	Dull, local mist.	Indiff.	"
9. N. Midlands	Dull, misty.	"	-
10. N.E. England	Dull, misty, local rain.	"	Slight
11. E. Scotland	Fair to dull.	Good	"
12. S.W. Scotland	Dull, local mist.	Fair	"
13. Isle of Man	Dull.	"	Smooth
14. N. & N.W. Scotland	Fair to dull.	"	Mod.
15. Hebrides	Dull.	Good	"
16. Orkneys and Shetlands	Cloudy, squally.	Indiff.	Slight
17. N.W. Ireland	Cloudy.	"	R. Rough
18. N.E. Ireland	Cloudy or dull, slight mist.	Fair	Slight
19. S.E. Ireland	Dull.	"	Smooth
20. S.W. Ireland	Dull, local haze.	"	R. Rough

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
4A	6th	0612	44	42
8	6th	0645	45	40
7	6th	0350	48	44
3	6th	1000	48	42



Barometric change from 4 h. to 7 h. (half millibars).



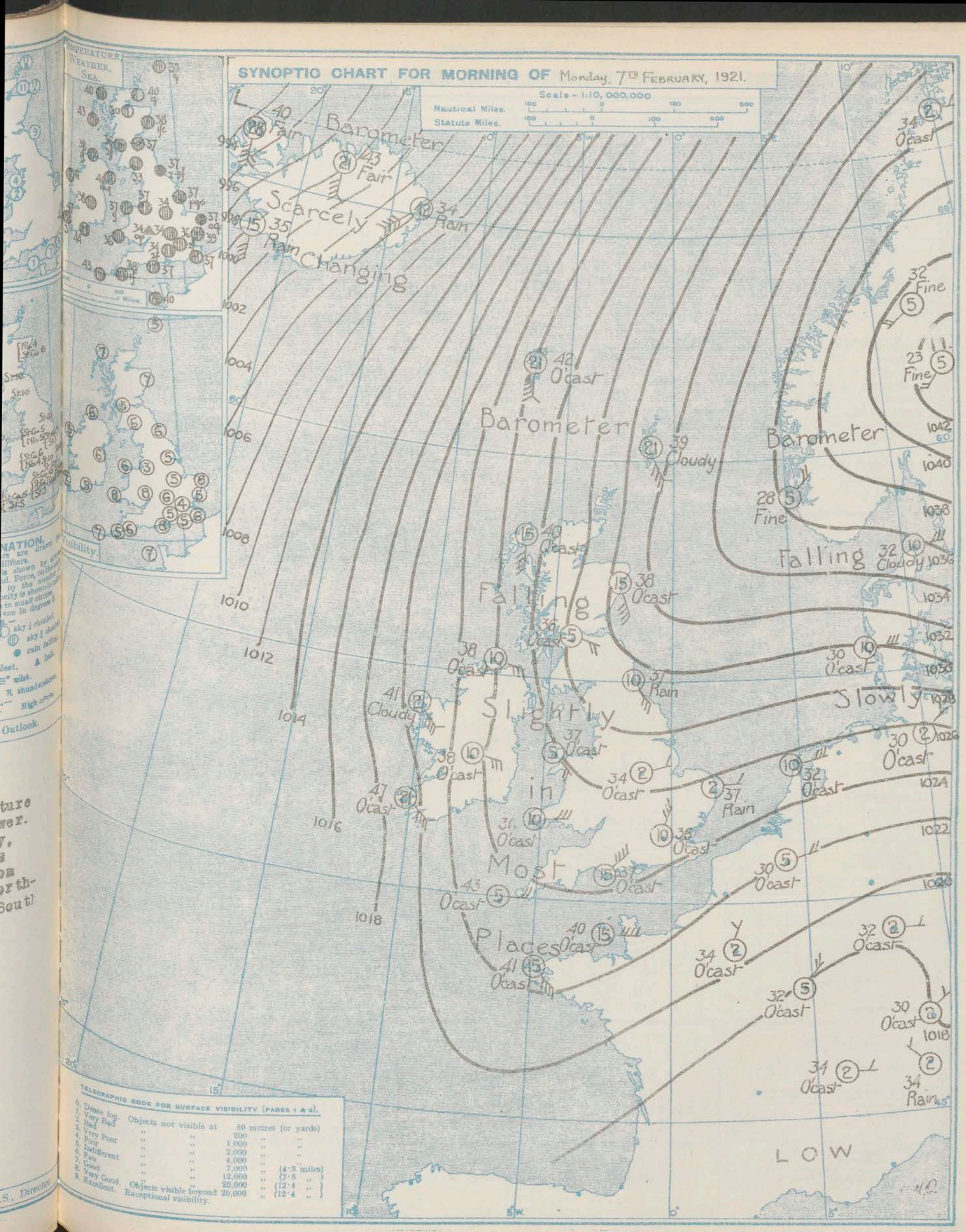
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 6-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ½ clouded. overcast sky. snow. fog. thunder. sky ¼ clouded. sky ¾ clouded. rain falling. sleet. mist. hail. shower. SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

A large antocyclone extending from Scandinavia towards the British Isles will maintain the rather low temperature, with winds from between North-East and East in the South and from between South-East and South in the West and North. Similar conditions are probable for some days.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 7th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind N.E. or E., light or moderate, stronger locally; overcast, some sleet or drizzling rain, snow in places, visibility indifferent to fair; temperature low, but little frost.	Temperature rather lower. Mainly dry, with winds mainly from between North-East and South East.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind S.E. or E., light or moderate; mainly overcast, some drizzling rain, sleet or snow locally, visibility indifferent to fair; temperature low, but little frost.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind between S.E. and S., light or moderate; cloudy or overcast, some drizzle or sleet, snow locally, visibility mainly fair; little change of temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly S.E., light to fresh; cloudy or overcast, visibility fair generally; little change of temperature.	

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


SYNOPTIC CHART FOR MORNING OF Monday, 7TH FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE.
WEATHER.
SEA.
Visibility.
Barometer
Scarcely Changing
Barometer
Falling
Slightly
in
Most
Places
Barometer
Falling
Slowly
LOW
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 38.

7th February (Monday)

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 5th-6th	Rainfall. Day. 9h-18h. 6th	Sunshine. Sunrise to Sunset. 6th
Scotland.	Banff	c.o	op	42	35	–	0·1	0·1
England, N.E.	Harrogate	o.c.	c.o	38	35	0·4	–	0·0
	Skegness	o	od-h.o	40	37	–	–	0·0
England, E.	Lowestoft	o	oph	41	35	–	–	0·0
	Felixstowe	om	om	38	36	–	–	0·0
	Southend-on-Sea	o	od	38	35	–	0·2	0·0
England, S.E.	Tunbridge Wells	o	o	38	34	–	–	0·0
	Margate	o	o	39	38	–	–	0·0
	Ramsgate	*	*	38	34	–	–	0·0
	Folkestone	o	o	38	32	–	–	0·0
	Hastings	o	o	42	36	–	–	0·0
	Eastbourne	o	o	41	37	–	–	0·0
	Brighton	o	o	39	37	–	–	0·0
	Worthing	o	o	39	36	–	–	0·0
	Portsmouth (S'thsea)	x	x	40	36	–	–	0·0
	Bournemouth	*	*	45	33	–	–	0·0
		*	*					
England, N.W.	Blackpool	o	o	40	38	–	–	0·0
	Southport	o	o	40	37	–	–	0·0
Midlands.	Leamington Spa							
	Batn	o	o	39	35	–	–	0·0
Wales.	Rhyl	o	o	41	33	–	–	0·0
	Colwyn Bay	x	x	40	34	–	–	0·0
	Llandudno	*	*	40	37	–	–	0·0
	Aberystwyth	?	?	42	35	–	–	0·0
England, S.W.	Weymouth	o	o	40	35	–	–	0·0
	Torquay	o	o	46	40	–	–	0·0
	Paignton							
	Penzance	bc.b	bc.c	48	38	–	–	4·2
	Bude	x.bc	b	43	31	–	–	7·5
	Ilfracombe	o	o	41	38	–	–	0·0

STATIONS.	Summaries for past 24 Hours. Weather. 7h-13h. 6th	13h-18h. 6th	18h. 6th-1h. 7th	1h-7h. 7th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	2f.2f.2f.2f	01f.02f	02f. 01f.02f	02f	41	36	34	–	–	0·0
Eskdalemuir	01f	bc.c 02f	01f. 0	01f. 0	38	21	32	Trace	–	0·0
Valencia (Cahirc'n)	01f.0	01f.0	c.02	c.02	49	~~46~~	42	–	–	0·1
Baldonnel	b.bcq	c.02f	02f	02f.02f	~~44~~	36	34	–	–	4·2
Manchester (Alex Park)	02f	c.02f.02f	03f	03f	41	36	34	–	–	*
Ross on Wye	9.01f	01f u	9 01f	01f	38	34	33	–	–	0·0
Falmouth	c.01f bc 02f	2f 01f 02f	02f	02f. 01f	46	37	37	–	–	0·9
Calshot (Hants)	01f	01f 02f.01f	01f 2f. 02f	01f. 0	44	35	33	–	Trace	0·0
Lympne (Folkestone)	01f.q	01fq 02f bc	c.02f.02f	02f 01f	36	34	33	Trace	Trace	0·0
Aberdeen	02f.02f.9f.p	01f.	01f. p	01f p	42	37	33	1	1	0·0
Howden	d.d.02f	0pd0	f. pd	pd. f.	40	34	31	0·1	0·3	0·0
Cranwell (Lincs)	d.d.01f	bd.prbd02f	0pd	0	35	32	32	0·3	0·2	*
Felixstowe	01f pd	01f.0	01f pd	0q	39	35	35	–	–	0·0
Shoeburyness	0	0	0	bc	39	35	34	Trace	–	0·0
Benson	o	o	0	0	39	33	32	–	–	*
S. Farnborough	bd.9.02f.02f	0pd0.03f	0.02f	02f	38	33	33	–	–	0·0
London (Kew Obsy.)	01f.0d.02f	u 02f 0pd	02f	03f	39	35	34	0·1	–	0·0
Croydon	02f.pd.02f pd.	02f.0.0.02f To Points	02f	02f.02f.02f	39	34	33	0·2	0·1	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·5
1	1– 3	0·5– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–32·6
12	Above 75	32·6 or above

SYMBOLS— Aurora ⌂ Rime ⌶ Lunar halo ◎ Glazed frost ~ Solar corona ⊙ Glazed roads ⁂ Lunar corona ◎ Line Squall ◎ Snow lying ▨

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. Yesterday.	Humidity % 15 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	24 Hours ended 9h G.M.T. 7th									
Greenwich (Royal Observatory)	o	o	o	38	34	33	1	0·0	93	87
City (Bunhill Row)	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James's Park)	*	*	o	40	35	32	–	0·0	98	82
Regent's Pk. (Botanical Gdns)	x	x	x	x	x	*	x	0·0	x	x
Camden Sq. (British Rainfall)	x	x	*	38	34	32	0·3	*	–	88
Kensington Palace	02f	01	*	41	34	34	0·2	*	83 (18h)	87
Hampstead Observatory	*	*	*	38	32	32	0·1	0·0	*	97

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total 86 Joules.

Milliwatts.
Average Rate. 2·6
Maximum Rate. 4

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

7th & 8th February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.27 / 7.26	12.7 / 12.7	4.47 / 4.48
Greenwich	7.31 / 7.30	12.14 / 12.14	4.52 / 4.51
Wick	8.8 / 8.6	12.26 / 12.26	4.46 / 4.46
Valencia	8.13 / 8.12	12.33 / 12.35	5.37 / 5.38

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 5th 18h. 0m. to 6th 4h. 30m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	30	NIL		–
δ Ursae Minoris	12	30	NIL		–

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 40° in some places and below 45° very generally. Slight frost occurred locally at night. Scarcely any bright sunshine was recorded except at Nairn, in Ireland, the South-West of England. At Nairn the value was 7.0 hours; at Birr Castle 6.1 hours and at Bude 7.5 hours. Little drizzling rain was experienced in the South-East and East, and some slight snow at Yarmouth.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21,628 . TUESDAY ... 8th ... FEBRUARY .... 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.

18H. G.M.T. ... 7th (left group)

Stations	Barom. at M.S.L. mb.	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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1027.7	-2	ESE	3	o2f	39	85	5	1250	Sr.	10	-	-	
Eskdalemuir	1027.6	-1	ENE	2	o	34	92	6	2000	Sr.	10	-	-	*
Valencia (Cahirc'n)	1018.2	-1	SE	5	o1f	47	75 47	7	2000	StCu	7	A.Sr.	3	5
Baldonnel	1025.0	0	SSE	4	o1f	38	75	7	3000	StCu	10	-	.	*
Manchester (Alex. Pk.)	1026.6	-1	ESE	2	o3f	37	85	3	1250	Sr.	10	.	-	
Ross on Wye	1025.7	0	NE	2	o	35	85	8	3000	StCu	10	-	-	*
Falmouth	1023.4	-1	E	4	o2f	41	75	5	-	StCu	9	-	-	*
Calshot (Hants)	1024.6	0	NNE	2	o2f	37	92	4	3000	StCu	10	-	-	3
Lympne (Folkestone)	1023.8	0	NE	3	ors₀	37	92	6	750	Sr.	10	-	-	*
Aberdeen	1029.1	-2	SE	3	o	40	75	8	2000	StCu	10	-	-	4
Howden	1026.9	-1	ESE	3	ors	37	92	7	3000	Sr.	10	-	-	*
Cranwell (Lincs)	1026.3	-1	ENE	1	o1f	35	92	7	1250	Sr.	10	-	-	*
Felixstowe	1024.8	0	NNE	2	od₀	37	92	6	1250	Sr.	10	-	-	2
Shoeburyness	1024.4	0	ENE	2	od₀	36	92	6	1250	Nb	8	A.Sr.	2	*
Benson	1024.4	-1	NE	2	o	35	92	5	-	Sr	10	-	-	*
S. Farnborough	1024.5	0	NNE	1	o2f	35	92	5	2500	Sr.	10	-	-	*
London (Kew Obsy.)	1024.8	0	NNE	3	od₀m	37	85	3	1250	Nb	8	A.Sr.	2	*
Croydon	1025.2	0	NE	2	ors₀3f	36	97	3	750	Sr.	10	-	-	*

18H. G.M.T. OF ... 7th (right group)

Stations	Barom. at M.S.L. mb.	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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1026.1	-1	ESE	3	o2f	38	75	5	2000	StCu	10	-	-	
Eskdalemuir	1026.0	-2	ESE	2	o	34	85	6	2000	Sr.	10	-	-	*
Valencia (Cahirc'n)	1017.0	-1	SSE	5	o1f	47	75	7	3000	StCu	4	A.Sr.	6	5
Baldonnel	1023.6	-1	SSE	3	o1f	36	75	6	3000	StCu	10	-	-	*
Manchester (Alex. Pk.)	1025.2	-1	E	2	o3f	36	85	3	3000	StCu	10	-	-	*
Ross on Wye	1024.5	-1	E	1	o2f	35	85	5	1250	Sr.	10	-	-	*
Falmouth	1022.4	0	ESE	2	o1f	42	75	6	-	StCu	10	-	-	*
Calshot (Hants)	1024.4	+1	NE	3	o3f	37	92	3	3000	Sr.	10	-	-	2
Lympne (Folkestone)	1023.9	+1	NE	4	ors₀f	35	92	6	750	Sr.	10	-	-	*
Aberdeen	1027.1	-2	SSE	2	o1f	37	92	7	2000	Nb	10	-	-	4
Howden	1025.6	-1	E	1	o	35	92	6	3000	Sr.	10	-	-	*
Cranwell (Lincs)	1025.7	0	NE	1	o1f	34	97	6	1250	Sr.	10	-	-	*
Felixstowe	1024.3	0	NNE	3	od₀	35	97	6	4200	Sr.	10	-	-	2
Shoeburyness	1024.1	0	N	1	o	36	85	6	1250	Sr.	10	-	-	*
Benson	1024.6	0	NE	1	o	35	92	5	-	Sr.	10	-	-	*
S. Farnborough	1024.7	0	-	0	o2f	36	92	4	750	Sr.	10	-	-	*
London (Kew Obsy.)	1024.5	-1	NE	2	o3f	37	85	3	1250	Sr.	10	-	-	*
Croydon	1024.8	0	ENE	2	o3f	35	92	3	750	Sr.	10	-	-	*

2/

1H. G.M.T. OF ... 8th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1025.5	-1	ESE	2	o2f	36	92	5	3,000	Sr	10	-	-	*
Eskdalemuir	1024.8	-2	-	0	o	32	85	6	2000	Sr	10	-	-	*
Valencia (Cahirc'n)	1016.9	-2	SSE	5	omr	45	*	*	*	*	*	*	*	5
Baldonnel	1021.6	-1	S	3	bc	36	85	6	3,000	Sr	4	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1022.6	0	SE	4	or₀f	43	85	6	-	Nb	10	-	-	*
Calshot (Hants)	1026.4	0	NE	2	o3f	37	85	3	1250	Sr	10	-	-	1
Lympne (Folkestone)	1025.0	+1	NE	2	o1f	34	97	6	1250	Sr	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1025.5	0	-	0	o2f	32	92	6	4200	Sr	10	-	-	*
Cranwell (Lincs)	1026.0	0	-	0	o2f	33	97	5	2,000	Sr	10	-	-	*
Felixstowe	1025.7	0	NNW	2	o	35	92	7	4200	Sr	10	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1025.4	0	*	*	*	37	*	*	*	*	*	*	*	*
Croydon	1025.7	0	SE	1	o3f	35	92	2	750	Sr	10	-	-	*

7H. G.M.T. OF ... 8th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1023.8	-1	ESE	3	o1f	36	85	6	4200	Sr	10	-	-	*
Eskdalemuir	1024.6	0	ESE	1	o	32	85	6	-	Sr	10	-	-	*
Valencia (Cahirc'n)	1017.8	+4	NE	4	or₀	42	92	6	3,000	StCu	10	-	-	*
Baldonnel	1021.4	0	E	4	o1f	41	95	6	1250	Sr	9	-	-	*
Manchester (Alex. Pk.)	1025.8	0	SSW	2	o2f	35	85	4	2,000	StCu	10	-	-	*
Ross on Wye	1025.6	+2	-	0	o2f	34	92	4	1,250	Sr	10	-	-	*
Falmouth	1022.7	0	SSE	4	o	43	75	7	-	StCu	10	-	-	*
Calshot (Hants)	1026.5	+1	ENE	3	o3f	37	85	3	2,000	StCu	10	-	-	2
Lympne (Folkestone)	1026.4	+2	NNE	2	o1f	34	92	6	1250	Sr	10	-	-	*
Aberdeen	1024.0	0	SSW	2	o2fe	37	85	4	3,000	StCu	9	-	-	3
Howden	1026.5	+2	-	0	o3fe	33	97	4	3,000	Sr	10	-	-	*
Cranwell (Lincs)	1027.1	+1	-	0	o1f	32	97	4	3,000	StCu	10	-	-	*
Felixstowe	1027.0	+2	-	0	o	35	85	7	5,700	StCu	10	-	-	2
Shoeburyness	1026.5	+2	NE	1	o	34	85	7	3,000	Cu	10	-	-	*
Benson	1026.3	+1	NE	2	o	34	92	5	-	Sr	10	-	-	*
S. Farnborough	1026.3	+2	E	1	o3f	33	97	2	2,000	Sr	10	-	-	*
London (M.O. at 1H.)	1026.6	+2	-	0	o3f	36	85	3	1250	Sr	10	-	-	*
Croydon	1026.9	+1	ESE	1	o3f	34	92	4	750	Sr	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18H. G.M.T. of 7th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7H. G.M.T. of 8th: Barometer at M.S.L. mb.	Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 Hours ended 7H. 8th: Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (7th)
Lerwick	1029.6	38	ESE	4	cq	1022.7	-5	40	+1	SSE	5	SE	cq	4	2	41	36	c	c	cq.om. cq	*
Stornoway	1023.5	40	-	0	bc	1016.3	-2	39	-1	S	6	-	odq	5	1	41	38	c	bc	c.odq	1.5
Castlebay (Barra Is)	1022.6	41	SE	5	o	1018.1	-1	43	0	SSW	4	-	r₀	5	1	43	40	opo	opo	or	0.0
Malin Head	1020.8	38	SSE	3	o1f	1019.0	0	35	-3	SSE	3	-	o2fe	3	TRACE	39	35	om	om	om.ome	0.0
Blacksod Point	1017.1	42	SE	6	om	1018.5	+2	43	+2	-	0	-	of 4-5f	1	7	47	40	bc	c	om.omr.om	*
Roche's Point	1020.7	45	SE	5	o	1018.6	0	45	+1	SE	5	-	or₀	6	9	47	43	oz	oz	odrm	*
Birr Castle	1010.7	37	SSE	2	o	1019.6	*	40	+2	SSE	1	-	r	*	4	41	36	efo	o	or	0.3
Donaghadee	1023.7	40	SSE	3	o	1022.6	+4	40	0	SSE	2	-	om	2	-	41	39	cmq	om	om	*
Liverpool (Bidston)	1024.9	37	ESE	1	o	1024.8	0	36	-1	SE	2	-	om	2	.	38	34	om	om	om	0.0
Holyhead	1024.1	38	SSE	1	o	1022.9	0	37	0	SE	4	-	og	2	-	38	35	ogm	ogm	og	0.0
Pembroke (St. Ann's Head)	1023.7	38	SE	2	o	1022.4	0	42	+6	ESE	3	-	o	3	.	42	31	o	o	o.c	0.0
Scilly (St. Mary's)	1021.3	44	SE	3	o1f	1021.2	0	44	+1	SSE	6	SE	c	6	0.4	45	43	omc	omp	omp.b.bcq	0.0
Jersey (St. Aubin)	1023.5	38	E	3	o	1025.7	0	38	-2	SE	4	-	o	3	-	40	37	oc	o	o	0.0
Portland Bill	1024.4	37	NE	4	o	1024.4	0	36	-1	ENE	4	E	op	5	-	40	33	o	o	o.op	*
Dungeness	1023.1	37	NNE	2	c	1025.3	+1	36	-1	N	2	NE	c	3	1	40	35	c	cpc	c.or.o.c	*
Wick	1026.0	40	SSE	5	oqp	1020.1	-3	38	-2	S	5	.	bcq	5	0.4	41	37	bcqp	bcoqp	oqp.opbcq	*
Nairn	1025.3	36	-	0	c	1020.3	*	36	+6	-	0	-	og	1	-	40	28	bc	bceg	cg	5.1
Leith	1026.0	37	SSE	1	o	1024.1	0	36	-1	SSE	1	-	o	1	-	40	35	og.o	o	ogm.o	*
Tynemouth	1025.7	38	ESE	2	o	1025.0	0	35	-2	WSW	2	-	o3f	3	2	38	34	ofph	o	om	*
Spurn Head	1024.6	36	E	2	cv	1025.8	+1	37	0	-	0	-	o	1	2	38	32	phfov	cph	ops. o	*
Yarmouth (Gorleston)	1024.6	36	ENE	3	o	1025.6	+1	34	-3	NW	2	-	o2f	1	1	38	34	ophsv	og	o	0.0
Clacton-on-Sea	1024.3	37	NNE	2	o	1026.5	+1	36	-3	NNW	2	-	o	1	0.1	39	35	ogphr	ogm	ogm	0.0
Nottingham	1025.1	36	NE	1	o	1026.8	*	34	0	SE	1	SE	o	*	0.1	38	33	oqm	om	o	0.0

* Information for these columns not usually received. ! The barometric change is expressed in half millibars. § For code see page 7. † See footnote p. 4.

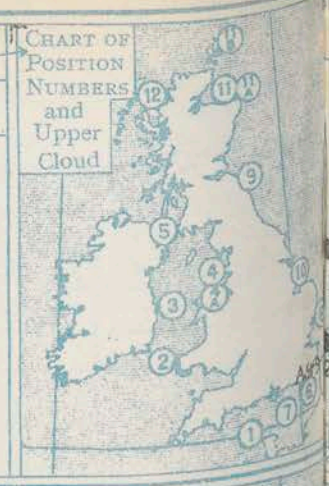
M.O FORM 2370

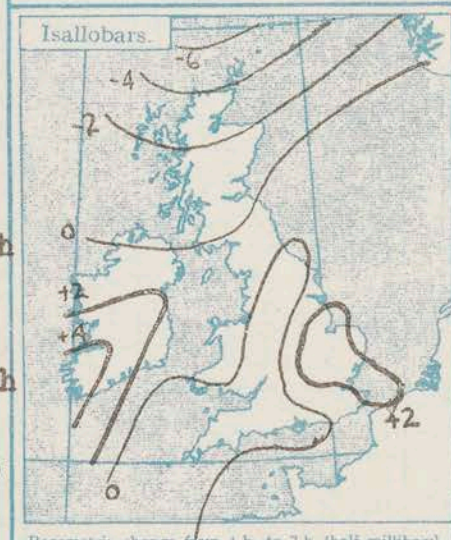
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 8.2.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty.	Poor	Smooth
2. E. England	Dull, local mist.	Fair	"
3. E. Midlands	Dull.	Poor	-
4. W. Midlands	Dull, misty.	"	-
5. S.W. England	Cloudy or dull.	Good	R.Rough
6. South Wales	Dull.	"	Slight
7. North Wales	Dull.	"	Smooth
8. N.W. England	Dull, local mist.	Indiff.	"
9. N. Midlands	Dull, local mist.	Poor	"
10. N.E. England	Dull, misty.	"	"
11. E. Scotland	Dull, ,local mist.	"	"
12. S.W. Scotland	Dull.	Fair	"
13. Isle of Man	Dull.	Indiff.	"
14. N.&N.W.Scotland	Fair to dull.	"	R.Rough
15. Hebrides	Dull, some rain or squalls.	"	"
16. Orkneys and Shetlands	Cloudy, squally.	Fair	Mod.
17. N.W. Ireland	Dull, some rain & mist.	Indiff.	Smooth
18. N.E. Ireland	Dull, misty.	Poor	"
19. S.E. Ireland	Dull, local rain.	Indiff.	Slight
20. S.W. Ireland	Dull, some rain.	Indiff.	Rough.

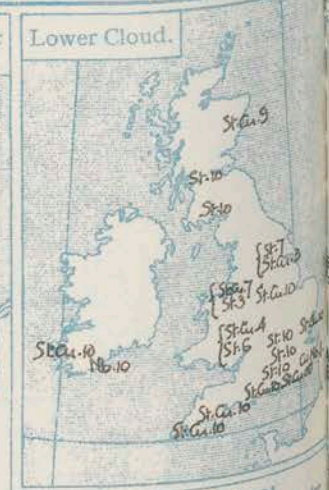
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	7th	0810	47	43
3	"	-	47	40
6	"	1500	48	39
2	8th	0210	46	41
7	"	0309	48	44
4A	"	0400	43	39





Barometric change from 4 h. to 7 h. (half millibars).



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 degrees F.
WEATHER SYMBOLS.— clear sky. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.— Rough High

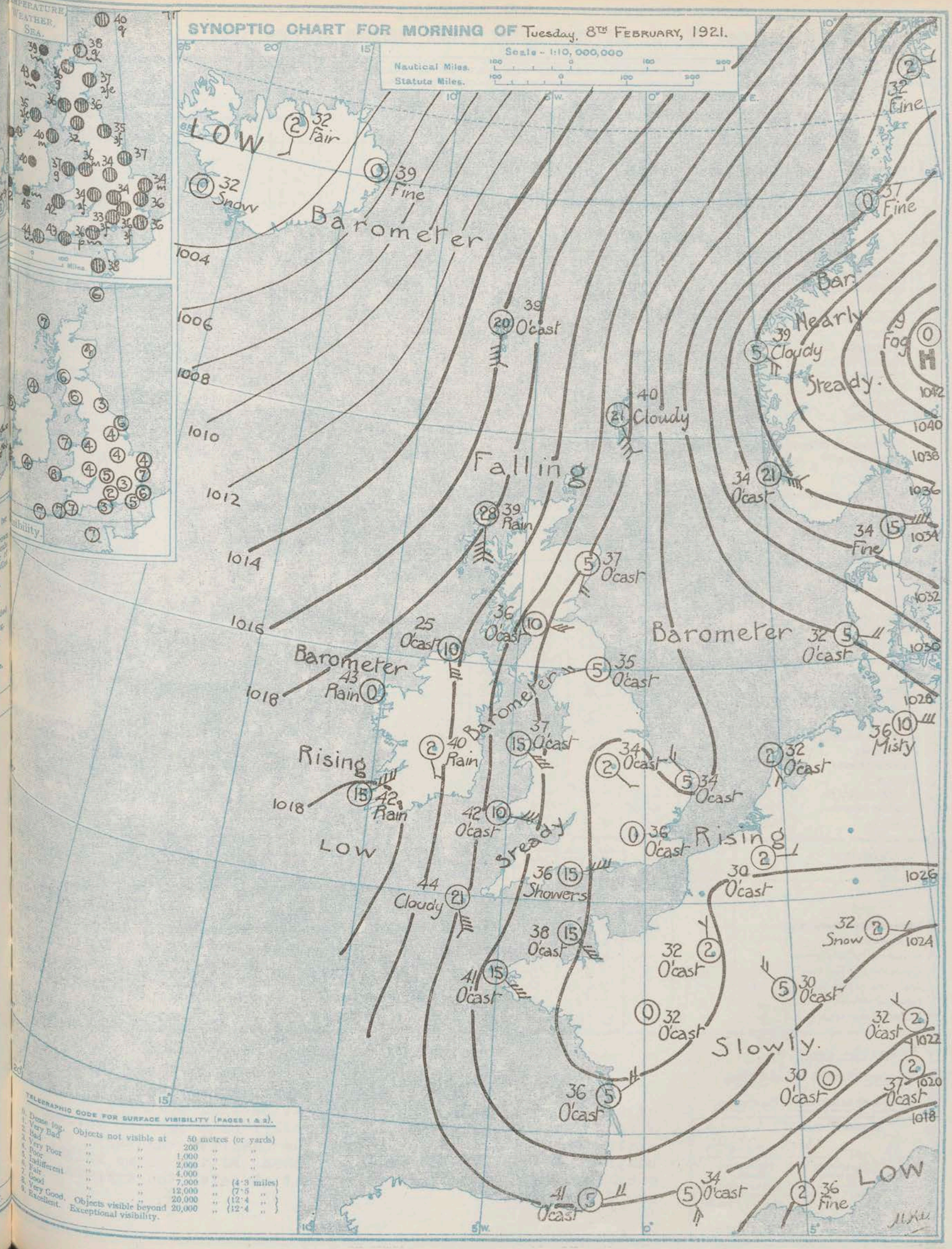
GENERAL INFERENCE from observations received up to 9h.

A depression to the North-Westward of Scotland and a smaller one over the South-West of Ireland will cause some rain in their vicinity, but the anticyclone over Scandinavia is maintaining its position and there are no indications of a change to a milder type of weather.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday, 8th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3 E. Midlands 4. W. Midlands	Wind light from between E. and S.E. generally, but variable locally; much cloud, some mist or fog, visibility indifferent inland, fair on coast; temperature low, but little frost.	Temperature continuing low, with the wind mainly from between South-East and South.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind mainly between S. and S.E., light or moderate; dull, some rain or drizzle, sleet locally, visibility fair; rather cold.	
9. N. Midlands 10. N.E. England	Similar to Nos 1 - 4.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W.Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind mainly from the Southward, light or moderate to fresh; cloudy or overcast, rain at times in West, some snow or sleet elsewhere, temperature low, but little frost; visibility fair generally.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind variable, then between S.E. and E. or N.E., light or moderate; dull, some rain, then improving; visibility fair, little change of temperature.	

R.S.

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


SYNOPTIC CHART FOR MORNING OF Tuesday, 8TH FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
LOW
Barometer
Falling
Rising
Steady
Slowly.
Nearly Steady.
Fog
Misty
Showers
Rain
Snow
Fine
Fair
Cloudy
O'cast
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 39 ... Tuesday 8th Feb. 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 6th-7th	Rainfall. Day. 9h-18h. 7th	Sunshine. Sunrise to Sunset. 7th
Scotland.	Banff	coc	cpo	40	35	-	1	1.4
England, N.E.	Harrogate ...	ospo	ohpo	35	32	0.2	0.2	0.0
	Skegness	o	op	38	35	1	-	0.0
England, E.	Lowestoft ...	od	od	38	35	0.2	0.3	0.0
	Felixstowe	omp	omg	38	35	-	0.4	0.0
	Southend-on-Sea...	mod.	odoc	37	34	-	1	0.0
England, S.E.	Tunbridge Wells	o.od	odo	36	33	-	0.3	0.0
	Margate	ohq	ohd.	40	36	-	0.1	0.0
	Ramsgate	*	*	?	?	?	?	0.0
	Folkestone	ocg	gpo	38	35	-	trace	0.0
	Hastings	fsr	o	38	35	-	-	0.0
	Eastbourne... ...	?	?	37	35	-	0.4	0.0
	Brighton	o	o	37	36	-	-	0.0
	Worthing	o	o	38	35	-	-	0.0
	Portsmouth (S'thsea)	*	*	38	34	0.3	-	0.0
	Bournemouth ...	*	*	37	34	-	-	0.0
England, N.W.	Blackpool	o	o	37	35	-	-	0.0
	Southport	o	o	37	35	-	-	0.0
Midlands.	Leamington Spa...	o	o	37	33	-	-	0.0
	Bath	o	o	36	35	-	-	0.0
Wales.	Rhyl	o	o	37	36	-	-	0.0
	Colwyn Bay ...			37	35	-	-	0.0
	Llandudno	*	*	38	36	-	-	0.0
	Aberystwyth ...			46	35	-	-	0.0
England, S.W.	Weymouth	o	o	38	35	-	-	0.0
	Torquay	oz	pz	38	35	-	-	0.0
	Paignton	og	ogc	39	34	-	-	0.0
	PENZANCE	oc	co	44	38	-	-	0.2
	Bude	-	-	41	34	-	-	1.9
	Ilfracombe	o	ocbc	38	35	-	-	0.0

STATIONS.	Summaries for past 24 Hours. Weather. 7h-13h 7th	13h-18h 7th	18h 7th-1h 8th	1h-7h 8th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	o2f	o2f	o2f	o2f. o1f	39	35	33	-	-	0.0
Eskdalemuir	ops. o1f	o1f	o1f	o. o1f	35	29	26	0.2	-	0.0
Valencia (Cahirc'n) ...	o1f.o	o1f f.	c. o3	r. c.r.	48	42	40	-	18	0.0
Baldonnel	o. o1f	o1f	bc. c3f	bcco	41	34	28	-	-	00
MANCHESTER ... (Alex Pk.)	pd. o3f	o3f.	o3f	o. o2f	37	35	31	-	-	*
Ross on Wye... ...	o	o. o1f.	g. o2f	g. o2f	36	33	32	-	-	0.0
Falmouth	co. o2f	o1f.	o2f. o1f	o	43	37	37	-	-	0.5
Calshot (Hants)... ...	o1f o2f	o2f o3f fe g	o3f	o3f. o	38	35	34	-	-	0.0
Lympne (Folkestone) ...	pd. rs. o1f prs	o1f rs.	rs. o1f	o1f	37	33	33	0.1	-	0.0
Aberdeen	o1f. o	o prh.	o1f. prh.	o1f. o2f	40	35	30	0.3	1	0.0
Howden	pd. ⊕o	o	o	o. o2f	37	32	30	1	-	0.0
Cranwell (Lincs)	o2fp. pd. o1f	o1f.	o	o	37	32	31	0.2	-	0.0
Felixstowe	pd. prs. rh. dd	pd. o	o1f. o	o1f	39	34	33	0.2	-	0.0
Shoeburyness	o pd.	pd. o	o	o	38	33	31	0.3	-	0.0
Benson	o	o	o	o	35	33	31	-	-	*
S. Farnborough ...	rs. o2f	o2f	rs. o2f	o2f. o3f	35	32	31	TRACE	-	0.0
London (Kew Obsy.) ...	o3f. pd.	pd. o3f.	o2f. o3f	o3f	37	35	32	-	-	0.0
Croydon	dd. rs. rs. o3f.	o3f rs. rs. pd.	o3f	o3f. o2f	37	34	32	0.3	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:–
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above Ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–32·6
12	Above 75	32·6 or above

SYMBOLS— Aurora; Rime; Lunar halo; Glazed frost; Solar corona; Glazed roads; Lunar corona; Line Squall; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Afternoon.	Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 8th							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o	o	36	34	32	-	0.0	88	78
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	Om	38	36	34	-	0.0	81	70
REGENTS PARK (BOTANIC GDNS.)	*	*	*	*	*	*	*		*	*
Camden Sq. (British Rainfall)	od	o	*	37	34	32	-	*	87	77
Kensington Palace	o	o	*	41		33	-	*	85 (18h)	80
Hampstead Observatory ...	*	*	*	36	32	32	TRACE	0.0	*	93

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ... 99 ... Joules.

	Milliwatts.
Average Rate.	2·9
Maximum Rate.	5

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

8th & 9th FEBRUARY ... 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7·26 / 7·24	12·7 / 12·7	4·48 / 4·50
Greenwich	7·30 / 7·28	12·14 / 12·14	4·55 / 4·57
Wick ...	8·6 / 8·3	12·26 / 12·26	3·44 / 3·46
Valencia ...	8·12 / 8·10	12·33 / 12·35	3·34 / 3·36

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 7th ... 18 h. ... 0 m. to 8th ... 6 h. ... 30 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	30	NIL		0
δ Ursae Minoris	12	30	NIL		0

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 40° over a very large portion of the Kingdom, only touching 35° at several stations. Slight frost occurred at night locally. Rain fell in various districts, but except in Ireland the quantity was very slight; at Valencia the value was 18mm. Little or no bright sunshine was recorded generally, but at Nairn the duration was 5.1 hours.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21,629 WEDNESDAY ... 9th FEBRUARY ... 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

13H. G.M.T. 8th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1025.6	+2	SSE	3	or	37	92	6	2,000	Nb	10	-	-	*
Eskdalemuir	1026.5	+1	S	2	o2f	34	75	5	2,000	St	10	-	-	*
Valencia (Cahirc'n)	1023.3	+5	N	4	bc	47	75	8	2,000	Cu	3	Ci.Cu	1	4
Baldonnel	1025.3	+3	NW	1	oro	41	92	6	1,250	St	10	-	-	*
Manchester (Alex Pk)	1027.3	+1	S	3	o2f	40	75	5	3,000	St.Cu	10	-	-	*
Ross on Wye	1026.7	0	WSW	1	c	43	65	5	-	-	-	Ci	7	*
Falmouth	1025.5	+1	SSE	5	o	42	75	7	-	St.Cu	10	-	-	*
Calshot (Hants)	1025.0	+1	SE	2	o2f	41	85	5	4,200	St.Cu	10	-	-	1
Lympne (Folkestone)	1028.1	+1	-	0	o	39	75	8	3,000	St.Cu	10	-	-	*
Aberdeen	1024.7	0	SW	3	o2f	38	65	4	2,000	St	10	-	-	0
Howden	1028.6	+1	-	0	o	37	75	6	3,000	St	7	A.St	3	*
Cranwell (Lincs)	1028.7	0	SSW	1	o	37	65	8	3,000	St.Cu	10	-	-	*
Felixstowe	1029.2	+1	-	0	o1f	40	65	6	4,200	St.Cu	10	-	-	2
Shoeburyness	1028.5	+2	NE	1	o	39	65	7	3,000	Cu	6	A.Cu	3	*
Benson	1027.2	0	ESE	1	o	40	75	4	-	-	-	-	-	*
S. Farnborough	1028.1	0	SE	1	o	41	85	6	4,200	St.Cu	10	-	-	*
London (Kew Obsy.)	1028.2	0	ESE	2	o2f	41	65	4	~~3000~~ <500	St	5	A.Cu	5	*
Croydon	1028.4	0	ESE	1	o2f	40	75	4	4,200	St.Cu	10	-	-	*

18H. G.M.T. OF 8th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	
Renfrew	1027.6	+3	SSW	2	oro2f	38	97	4	1,250	Nb	10	-	-	*	
Eskdalemuir	1028.6	+2	SSW	1	osom	32	97	3	2,000	Nb	10	-	-	*	
Valencia (Cahirc'n)	1028.4	+6	E	2	b	45	75	8	2,000	St.Cu	3	-	-	3	
Baldonnel	1029.0	+5	-	0	r23f	41	97	2	<500	Nb	10	-	-	*	
Manchester (Alex Pk)	1029.3	+3	SSW	2	odo	39	92	4	3,000	Nb	10	-	-	*	
Ross on Wye	1029.0	+3	SW	1	o	40	85	4	2,000	St	7	Ci.St	2	*	
Falmouth	1028.0	+3	SE	3	o2f	41	85	4	-	St.Cu	10	-	-	*	
Calshot (Hants)	1030.1	+2	SW	2	o1f	39	92	6	4,200	St.Cu	10	-	-	1	
Lympne (Folkestone)	1030.6	+2	ENE	2	o1f	37	85	~~4~~ 7	4,200	St.Cu	10	-	-	*	
Aberdeen	1026.1	+2	SW	2	o2f	36	92	4	2,000	St	10	-	-	3	
Howden	1030.5	+2	SW	1	o1f	35	85	6	3,000	St	10	-	-	*	1030.1
Cranwell (Lincs)	1030.5	+3	SSW	1	o2f	34	85	5	4,200	St	9	A.St	1	*	
Felixstowe	1030.9	+2	NNE	1	o1f	36	85	6	4,200	St.Cu	10	-	-	1	
Shoeburyness	1030.4	+3	N	1	o	37	75	7	2000	St	10	-	-	*	
Benson	1029.8	+2	SW	1	o	36	85	5	-	St.Cu	8	-	-	*	
S. Farnborough	1030.2	+3	-	0	o2f	39	92	5	3,000	St	10	-	-	*	
London (Kew Obsy.)	1030.2	+3	SE	1	o2f	39	85	4	1250	St.Cu	10	-	-	*	
Croydon	1030.6	+4	SE	1	o3f	37	85	3	4,200	St.Cu	10	-	-	*	

1H. G.M.T. OF 9th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1032.5	+4	-	0	b3f	32	97	2	3,000	St.Cu	2	-	-	÷
Eskdalemuir	1032.5	+3	NE	1	bc	30	97	6	2,000	St	6	-	-	*
Valencia (Cahirc'n)	1033.8	+2	NNE	3	bc	42	*	*	*	*	*	*	*	2
Baldonnel	1034.6	+5	-	0	b3fe	34	97	2	-	-	-	-	-	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1032.5	+4	ESE	3	od	41	92	5	-	Nb	10	-	-	*
Calshot (Hants)	1033.6	+4	NNW	1	o2f	39	~~85~~ 92	4	3,000	St.Cu	10	-	-	0
Lympne (Folkestone)	1032.6	+1	-	0	o4f	35	92	4	2,000	St	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1032.4	+2	-	0	o2fe	35	97	4	3,000	St	10	-	-	*
Cranwell (Lincs)	~~1037.5~~ 1032.7	+2	W	1	o2f	35	85	5	2,000	St.Cu	10	-	-	*
Felixstowe	1033.3	+2	N	2	bcif	35	85	6	4,200	St.Cu	5	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1h.)	1032.4	+2	*	*	*	34	*	*	*	*	*	*	*	*
Croydon	1033.0	+1	WSW	2	o2f	34	85	4	1250	St	10	-	-	*

7H. G.M.T. OF 9th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	
Renfrew	1034.6	+4	-	0	b	29	97	~~4~~ 2	-	-	-	A.St	1	÷	
Eskdalemuir	1037.1	+4	S	1	bxm	25	97	~~7~~ 5	3,000	Cu	2	-	-	*	
Valencia (Cahirc'n)	1034.0	+3	-	0	bc	34	85	8	-	-	-	A.St	4	÷	
Baldonnel	1038.4	+4	WSW	2	bx	32	92	8	-	-	-	A.St	2	*	
Manchester (Alex Pk)	1035.6	+4	SSE	1	o4f	32	97	0	<500	St	10	-	-	÷	
Ross on Wye	1033.6	+2	-	0	cm	34	97	3	3,000	St.Cu	4	-	-	*	
Falmouth	1035.5	+3	ESE	3	c	42	75	6	-	St.Cu	3	A.Cu	5	*	
Calshot (Hants)	1035.5	+2	NNW	3	o2f	39	92	4	3,000	St.Cu	10	-	-	1	
Lympne (Folkestone)	1033.9	+2	NNE	3	b4f	32	85	4	-	-	-	A.St	1	*	
Aberdeen	1033.6	+4	WSW	1	b4fex	33	97	2	-	-	-	-	-	3	
Howden	1034.8	+3	NNW	1	bx 2f	31	97	4	-	-	-	A.St	4	*	
Cranwell (Lincs)	1034.5	+2	NNW	1	o2f	36	97	4	2,000	St.Cu	10	-	-	*	1032.7
Felixstowe	1034.5	+2	N	2	cx	31	85	6	4,200	St.Cu	8	-	-	1	
Shoeburyness	1034.3	+2	NW	1	c	33	75	4	4,200	Cu	4	A.Cu	3	*	
Benson	1034.1	+1	-	0	o3f	34	97	4	-	St	10	-	-	*	
S. Farnborough	1034.8	+3	N	1	o2f	34	92	4	2,000	St.Cu	10	-	-	*	
London (M.O. at 1h.)	1035.1	+3	-	0	o3f	~~36~~ 35	85	3	1250	St	10	-	-	*	
Croydon	1035.0	+2	-	0	o3f	36	85	2	1250	St	10	-	-	*	

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18h. G.M.T. of 8th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7h. G.M.T. of 9th: Barometer at M.S.L. mb.	Change in 3 hours	Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 hours ended 7h. 9th: Rainfall mm.	Max. °F.	Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (8th)
Lerwick	1022.2	40	S	4	omdo	1027.8	+3	39	-1	SSW	3	SW	bc	2	5	42	36	cq	cpq	omr. bcp	*
Stornoway	1023.4	40	W	2	cro	1032.9	+3	36	-3	W	3	-	b	2	3	45	34	op. bc	bc. cp.	b. p. b	1.9
Castlebay (Barra Is)	1025.4	40	W	4	ohp	1035.1	+6	41	-2	NW	2	W	c	2	1	46	39	r.o. bc	bcsp	h. bcp. c	3.1
Malin Head	1026.2	44	W	3	bc	1035.5	+2	43	+8	W	2	-	b	2	5	45	34	omd	bcmp	b. cp	2.3
Blacksod Point	1027.6	44	NW	2	bc	1035.5	+4	38	-6	NNW	2	-	bc	2	-	48	36	bc	bc	bc. b	*
Roche's Point	1026.8	46	NE	2	o	1034.2	+4	34	-8	N	1	-	o	3	12	49	34	rm.o	orm. om	o. b. o	*
Birr Castle	1028.6	43	N	1	c	1037.6	*	29	-11	S	1	-	m	*	5	44	29	or.	c	ofx	0.1
Donaghadee	1027.9	41	NW	1	om	1036.3	+3	36	-4	WNW	1	-	bm	1	3	43	36	omr	omd	bmx	*
Liverpool (Bidston)	1029.2	41	-	0	r	1035.4	+2	34	+1	WNW	1	-	of	1	0.4	44	36	bc	omr	opmf	0.0
Holyhead	1028.7	42	SSW	3	o	1036.0	+2	44	+4	NNE	4	N	bc	2	3	44	36	o.c.o	orm.o	orm.c	0.0
Pembroke (St. Ann's Head)	1028.3	42	SE	3	om	1036.3	+3	41	-1	-	0	-	o	3	1	44	40	o	op	odm.o	0.0
Scilly (St. Mary's)	1024.9	46	SE	5	o1f	1034.2	+4	44	0	ESE	2	-	of	4	0.4	46	42	om	om	opm	0.0
Jersey (St. Aubin)	1029.5	37	SE	4	o	1034.2	0	38	0	WNW	2	-	o	2	-	40	32	o.bc.c	c.o.bo.	b.o	6.3
Portland Bill	1029.8	41	SSE	4	o	1034.8	+1	40	+4	N	4	N	o	4	1	42	35	p.o	o	o.c.o	*
Dungeness	1029.3	40	NE	2	c	1033.0	+2	35	-1	NNE	1	NE	b	2	-	41	35	c	c	c.o.c. bc	*
Wick	1022.8	36	SW	2	bcm	1031.3	+5	34	-4	SW	2	-	b	2	1	41	32	bc.omp	omqp	b. bcm b	*
Nairn	1024.7	36	-	0	c	1033.2	*	34	-2	-	0	-	bc	0	0.4	39	32	od c	d. cm	c. bcx	0.2
Leith	1024.4	38	NE	1	o	1034.5	+2	35	-1	SW	1	W	c	2	1	39	33	og. o	odm.o	o. bcx. c	*
Tynemouth	1028.4	37	SW	2	o3f	1034.4	+3	35	0	W	2	-	b 2f	2	1	38	34	of	of	of. prs. bm	*
Spurn Head	1029.7	38	NW	2	c	1033.5	+1	38	+1	NW	4	-	bm	3	-	40	35	o	og	o. om	*
Yarmouth (Gorleston)	1029.4	38	-	0	c	1033.6	+2	34	0	NW	2	-	c	1	-	41	32	om.cm	cm	om.cm. bcb	0.0
Clacton-on-Sea	1030.1	33	NNW	2	o	1033.4	+2	33	-3	NW	3	NW	bc	1	-	40	33	ogm	ogm	ogm. bc	0.0
Nottingham	1029.2	36	SE	1	o	1035.1	*	35	+1	WSW	1	-	om	*	-	40	33	o	o	o	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

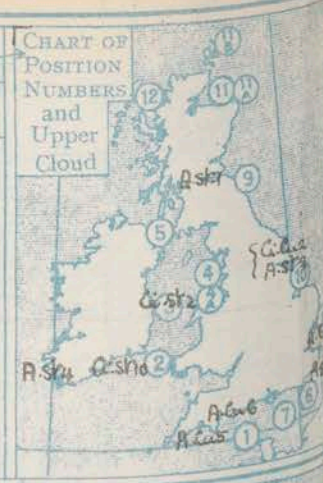
M.O FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 9.2.1921.

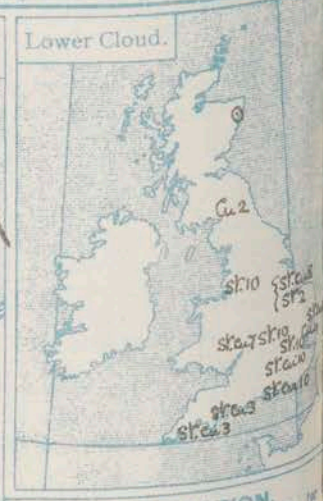
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fine to dull, some mist.	Indiff.	Smooth
2. E. England	Fair to dull, slight mist.	Fair	"
3. E. Midlands	Dull, misty.	Poor	-
4. W. Midlands	Cloudy or dull, some mist.	V.Poor	-
5. S.W. England	Cloudy or dull.	Fair	Mod.
6. South Wales	Dull.	Good	Slight
7. North Wales	Fair to dull.	"	Smooth
8. N.W. England	Dull, mist or fog.	Var.	"
9. N. Midlands	Fine to dull.	Poor	-
10. N.E. England	Mainly fine, misty.	"	Smooth
11. E. Scotland	Fine to cloudy, fog at Aberdeen.	"	"
12. S.W. Scotland	Fine, local mist.	"	"
13. Isle of Man	Fair or fine.	Good	"
14. N.& N.W. Scotland	Fine to cloudy.	"	"
15. Hebrides	Fine to cloudy.	"	"
16. Orkneys and Shetlands	Fair.	Fair	"
17. N.W. Ireland	Fair.	Good	"
18. N.E. Ireland	Fine, local mist.	Fair	"
19. S.E. Ireland	Fine, local mist.	"	Slight
20. S.W. Ireland	Fair to dull.	Good	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F.	Air °F
5	8th	0825	46	42
12	"	0450	46	42
3	"	1000	48	44
1	"	1228	49	43
2	9th	0200	49	44
4	"	0340	49	44



Barometric change from 4 h. to 7 h. (half millibars).



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 degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough High

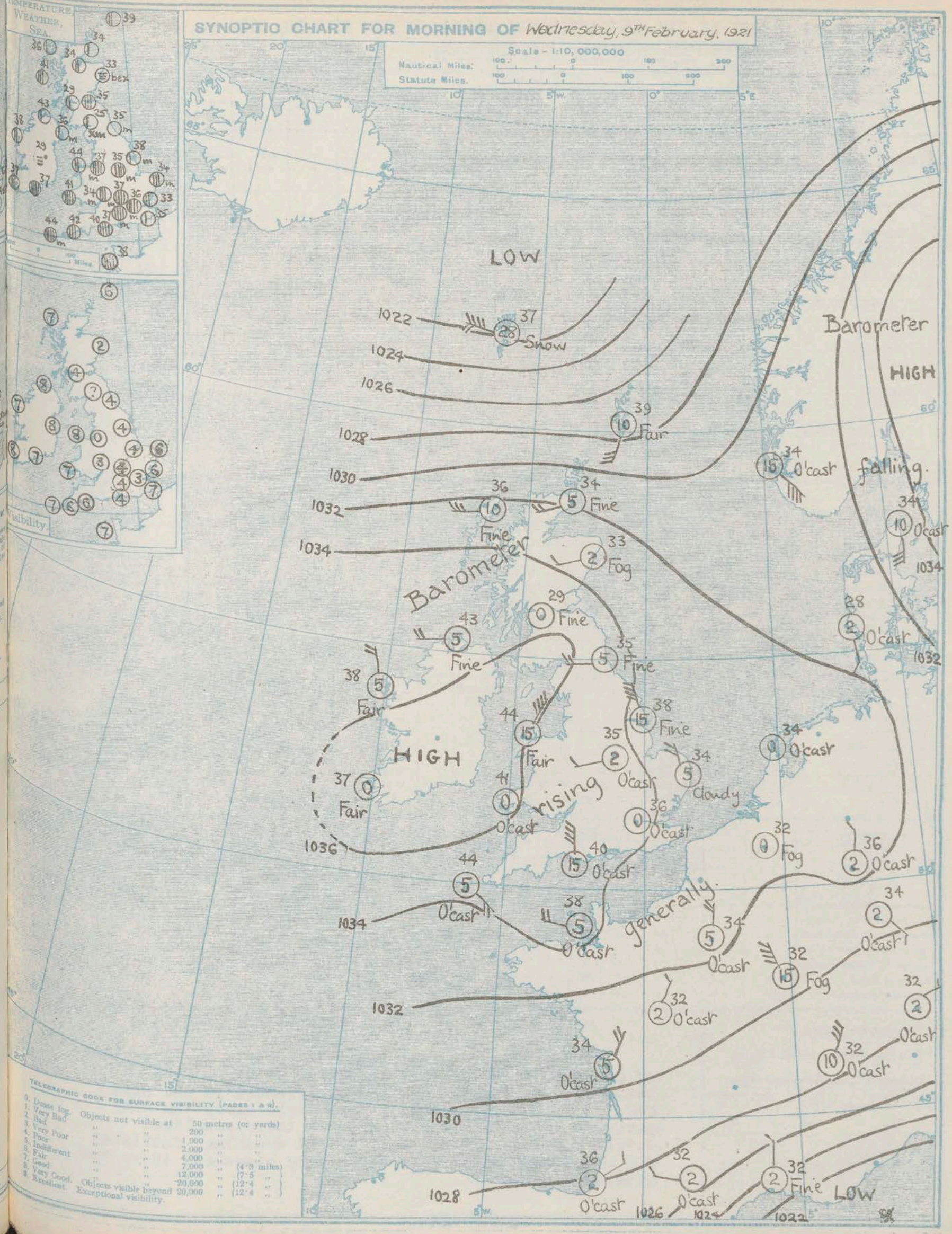
GENERAL INFERENCE from observations received up to 9h.

An anticyclone which is extending over the British Isles from the Atlantic will probably continue to move Eastward and determine the winds and weather over this country for 24 hours or longer.

A low temperature is probable generally, with light Westerly winds in the North and light variable winds from between North and East elsewhere. There are no indications of any precipitation.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 9th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind light variable between E. and N.; dull to fairer, some mist or fog, visibility indifferent inland, fair on coast; temperature low, frost at night.	Temperature falling in most districts. Temporary frost likely to become general.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind light variable; mainly fair, but some fog or mist, visibility indifferent to fair; cold, frost at night.	
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 light, mainly from the Westward; fair generally, visibility fair or good; temperature rather low, frost in most places at night.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind light variable or North-Easterly; fair, visibility mainly fair or good; cold, frost in night.	

R3


SYNOPTIC CHART FOR MORNING OF Wednesday, 9TH February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE.
WEATHER.
SEA.
Visibility
LOW
HIGH
Barometer falling.
Barometer rising generally.
Barometer
Snow
Fair
Fine
Fog
O'cast
Cloudy
1022
1024
1026
1028
1030
1032
1034
1036
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Exceptional. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 40...

WEDNESDAY 9TH FEBY 1921

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 8TH

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 7TH-8TH	Rainfall. Day. 9h-18h. 8TH	Sunshine. Sunrise to Sunset. 8TH
Scotland.	Banff	o.c.o	rs.d.o	37	32	1	2	0.0
England, N.E.	Harrogate	o	o	36	32	0.1	-	0.0
	Skegness	m.o	o.cmbc	40	33	-	-	0.0
England, E.	Lowestoft ...	o	o	41	34	-	-	0.0
	Felixstowe	cm	cm	40	34	-	-	0.0
	Southend-on-Sea...	m.o	o	40	34	-	-	0.0
England, S.E.	Tunbridge Wells	om	o	40	33	-	-	0.0
	Margate	o	o	42	35	3	-	0.0
	Ramsgate	*	*	40	33	1	-	0.0
	Folkestone	o	o	45	38	-	-	0.0
	Hastings	o	o	42	35	-	-	0.0
	Eastbourne... ...	o	o	42	35	-	-	0.0
	Brighton	o	o	41	36	-	-	0.0
	Worthing	ogd	od	40	36	-	0.3	0.0
	Portsmouth (S'thsea)	*	*	41	35	-	-	0.0
	Bournemouth ...	*	*	40	35	4	-	0.0
England, N.W.	Blackpool	o	od	40	35	-	0.1	0.1
	Southport	o	op.o	40	34	-	0.1	0.0
Midlands.	Leamington Spa...	o.c.b	cb	41	33	-	-	0.3
	Bath	o	o	42	35	-	-	0.0
Wales.	Rhyl	c bc	cp	44	32	-	0.3	1.0
	Colwyn Bay ...	*	*	45	33	0.3	-	0.0
	Llandudno	c.o	od.o	44	33	-	1	0.1
	Aberystwyth ...	*	*	47	35	-	2	0.6
England, S.W.	Weymouth	fd.o	o	41	36	1	1	0.10
	Torquay	c	c.bc	44	38	0.2	-	0.0
	Paignton	oc	co	45	35	Trace	-	0.0
	Penzance	o.c	om	46	41	-	-	0.0
	Bude	o	b	43	33	-	-	0.0
	Ilfracombe	o.c.bc	od	45	35	-	0.1	0.3

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 8TH	Weather. 13h-18h. 8TH	Weather. 18h 8TH-1h 9TH	Weather. 1h-7h. 9TH	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. † Day. 7h-18h. mm.	Rainfall. † Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	02f I 81 p2	01f.02f r r	b.bc.02f.03f	b.bcx.3f	39	28	17	0.4	-	0.0
Eskdalemuir	0 02f	S S 03f	c.o.bc.c	b.bcx	35	25	19	1	-	0.0
Valencia (Cahirc'n) ...	01f.cobcc	bc.c b.bc	b	b.bc.b.bc	48	37	31	-	-	6.7
Baldonnel	01f r r	02f r 02f r	bc.c.2f	b.bcx	42	30	20	2	1	0.0
Manchester (Alexandra Park)	03f.02f	03f d d	pd 03f	04-5f.06-8f	41	32	23	-	Trace	*
Ross on Wye... ...	02f o b bcf	⊕ 02bcco	02f p 02f g	02f.co bccf	44	33	28	-	-	2.1
Falmouth	01f.o.	0pd 02f	0d d	r r.c.o	43	40	37	-	1	0.0
Calshot (Hants)... ...	03f 02f	02f 01f	02f	02f	42	37	36	-	-	0.0
Lympne (Folkestone) ...	01f.o.	o 01f	01f	c.o.b.bcf	39	30	27	-	-	0.0
Aberdeen	b	02f g.	02f. 03f	4-5f.x	39	30	19	0.3	-	0.1
Howden	o 01f	01f	01f.2f	c.ox	38	31	25	-	-	0.2
Cranwell (Lincs)	02f 01f	01f	0	0	38	32	31	-	-	0.0
Felixstowe	01f.o	01f.o.	b.o c.o	b.bcx	40	30	28	-	-	0.0
Shoeburyness	o	o	o	c.ox	40	32	28	-	-	0.0
Benson	02f	o	c.o.o	02f	41	32	28	-	-	*
S. Farnborough ...	o	o 01f	02f	02f	42	33	34	-	-	0.0
London (Kew Obsy.) ...	03f.02f	03f	02f	02f	42	35	23	-	-	0.0
Croydon	02f	02f.03f	03f.8.ox. 02f	02f.03f	41	32	25	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·6
12	Above 75	33·6 or above

SYMBOLS— Aurora; Rime; Glazed frost; Glazed roads; Line Squall; Solar halo; Lunar halo; Solar corona; Lunar corona; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T.							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o	3.0	41	35	30	-	0.0	73	78
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	om	42	38	32	-	0.0	70	73
Regents Park (Botanic Gdns)	*	*	*	*	*	*	*		*	*
Camden Sq. (British Rainfall)	cm	om	*	40	36	29	-	*	74	78
Kensington Palace	o	o	*	41	34	30	-	*	79 (18h)	81
Hampstead Observatory ...	*	*	*	39	34	28	-	0.0	*	79

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total .....164..... Joules.

	Milliwatts.
Average Rate.	4.9
Maximum Rate.	11

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

9TH & 10TH FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	7.24 / 7.22	12.7 / 12.7	4.50 / 4.52
Greenwich	7.28 / 7.26	12.14 / 12.14	5.0 / 5.2
Wick ...	8.3 / 8.0	12.26 / 12.26	4.48 / 4.51
Valencia ...	8.10 / 8.8	12.55 / 12.55	5.10 / 5.12

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 8TH ...18.h.....m. to 9TH ...6.h...30.m.

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

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 40° over a large portion of Great Britain and fell to 32° or below in many localities at night. Rain was experienced in the West and North, but the quantity was slight except in some parts of Ireland; at Roche's Point there was 12mm. Jersey recorded 6.3 hours of bright sunshine, Castlebay 3.1 hours, and Malin Head 2.3 hours; elsewhere there was little or none.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21,630 THURSDAY 10th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	⸸ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
13H. G.M.T. 9th														
Renfrew	1039.9	+3	WSW	1	bc	45	55	8	4200	Cu	5	-	-	*
Eskdalemuir	1038.7	+3	NNW	3	b	42	75	7	-	-	-	-	-	*
Valencia (Cahirc'n)	1040.2	+2	E	2	b	49	55	8	-	-	-	Ci.St	2	3
Baldonnel	1041.1	+3	NW	1	bif	44	75	7	-	-	-	A.St	1	*
Manchester (Alex. Pk.)	1038.5	+4	SE	2	o7f	34	97	0	<500	St	10	-	-	*
Ross on Wye	1037.6	+1	NNE	3	bc	46	75	8	4200	Cu	5	-	-	*
Falmouth	1038.1	+1	NE	3	b	47	65	7	-	St.Cu	1	Ci.St	1	*
Calshot (Hants)	1036.9	+1	N	3	ozf	44	85	4	2000	St	10	-	-	2
Lympne (Folkestone)	1035.2	+2	N	4	cif	39	75	6	5700	St.Cu	8	-	-	*
Aberdeen	1036.9	+2	WNW	4	b	44	55	8	4200	St.Cu	1	-	-	3
Howden	1037.6	0	NE	3 (red correction)	b3	44	75	7	2000	Cu	3	-	-	*
Cranwell (Lincs)	1037.7	+2	N	2	b	43	85	5	4200	Cu	1	-	-	*
Felixstowe	1036.1	+1	N	2	ozf	39	92	5	4200	St	10	-	-	1
Shoeburyness	1036.0	+2	NE	2	c2fe	41	75	5	3.000	St	6	A.Cu	2	*
Benson	1036.5	+1	NNE	2	c	43	75	5	-	St.Cu	7	-	-	*
S. Farnborough	1036.8	+1	NNE	1	ozf	41	85	4	1.250	St	10	-	-	*
London (Kew Obsy.)	1036.8	+1	N	2	o3f	41	85	3	2000	St	10	-	-	*
Croydon	1036.7	+1	NNW	2	o3f	40	85	2	2000	St	10	-	-	*
1H. G.M.T. of 10th														
Renfrew	1044.5	+2	-	0	b3f	32	92	3	-	-	-	-	-	*
Eskdalemuir	1044.6	+2	-	0	b	27	85	7	-	-	-	-	-	*
Valencia (Cahirc'n)	1045.3	+2	ESE	2	bc	37	*	*	*	*	*	*	*	3
Baldonnel	1044.8	+2	S	2	bzc	32	92	5	-	-	-	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1041.4	+1	N	2	b	36	85	7	-	-	-	-	-	*
Calshot (Hants)	1040.2	+1	N	3	bzf	37	97	4	-	-	-	-	-	2
Lympne (Folkestone)	1036.3	0	N	6	cifq	39	97	6	1.250	St	7	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1042.2	+1	-	0	bx	26	97	7	-	-	-	-	-	*
Cranwell (Lincs)	1041.4	+1	NNW	3	b	32	97	5	-	-	-	-	-	*
Felixstowe	1039.1	+1	N	3	bif	35	97	6	-	-	-	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1039.7	+2	*	*	*	37	*	*	*	*	*	*	*	*
Croydon	1040.3	+2	N	2	bzf	37	92	4	3.000	St.Cu	3	-	-	*

Stations	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
18H. G.M.T. of 9th														
Renfrew	1041.5	+3	-	0	bczf	38	92	4	4200	St.Cu	4	-	-	
Eskdalemuir	1041.1	+3	N	2	b	35	75	5	-	-	-	-	-	*
Valencia (Cahirc'n)	1041.0	+2	ESE	2	b	44	65	8	-	-	-	Ci.St	2	3
Baldonnel	1042.1	+3	NE	2	bzf	39	85	5	-	-	-	A.St	2	*
Manchester (Alex. Pk.)	1039.9	+2	NE	1	o8fe	30	92	0	<500	St	10	-	-	*
Ross on Wye	1039.1	+2	NE	2	bm	39	85	4	2000	St	1	-	-	*
Falmouth	1038.0	+1	NNE	2	bzf	42	85	5	-	Cu	9	-	-	*
Calshot (Hants)	1037.9	+3	N	3	bzf	41	85	4	-	-	-	-	-	1
Lympne (Folkestone)	1036.8	+1	N	4	o3f	38	97	3	750	St	9	-	-	*
Aberdeen	1040.0	+4	NW	3	b	39	85	8	5700	St.Cu	2	-	-	3
Howden	1040.1	+5	NNW	1	b	35	~~75~~ 90 (red)	6	4200	St	2	Ci.St	1	*
Cranwell (Lincs)	1039.4	+3	NNW	1	bc	39	92	5	3.000	Cu	5	-	-	*
Felixstowe	1037.7	+3	N	3	bozf	37	97	5	3.000	St	4	-	-	1
Shoeburyness	1037.1	+2	N	3	cife	40	85	6	3.000	Cu	8	-	-	*
Benson	1037.9	+1	NNE	1	b	37	85	4	-	-	-	-	-	*
S. Farnborough	1038.3	+3	NNE	1	om	38	92	4	2000	St	9	-	-	*
London (Kew Obsy.)	1038.1	+2	NNE	3	bczf	41	75	4	-	-	-	A.Cu	4	*
Croydon	1037.9	+3	N	3	o3f	42	75	3	2.000	St.Cu	10	-	-	*
7H. G.M.T. of 10th														
Renfrew (red)	1044.6	0	-	0	b3f	29	97	2	1250	St	1	A.St	1	*
Eskdalemuir	1044.9	0	-	0	bc	27	85	7	-	-	-	-	-	*
Valencia (Cahirc'n)	1043.0	-1	NE	1	bc	34	85	8	-	-	-	-	-	*
Baldonnel	1044.4	0	E	1	bc	28	92	4	-	-	-	A.St	2	*
Manchester (Alex. Pk.)	1042.8	0	SE	1	8fe	25	92	0	<500	St	10	-	-	*
Ross on Wye	1041.8	0	-	0	bmx	30	92	3	2000	St	2	Ci	1	*
Falmouth	1040.5	0	N	2	bx	34	85	6	-	-	-	-	-	*
Calshot (Hants)	1040.0	0	N	3	bzf	34	97	4	4200	St.Cu	1	A.St	1	2
Lympne (Folkestone)	1037.2	0	N	4	bif	36	97	7	-	-	-	A.St	1	*
Aberdeen	1043.4	0	WNW	2	bzfex	34	92	4	-	-	-	-	-	2
Howden	1042.1 (red correction; margin: 1042.1)	0	NW	2	cm	33	92	7	3.000	St	5	A.St	3	*
Cranwell (Lincs)	1041.1	-1	NW	3	bc	31	97	4	4200	St.Cu	4	Ci.St	2	*
Felixstowe	1038.5	0	N	3	bif	34	97	7	2000	St	2	-	-	1
Shoeburyness	1038.5	0	NNW	3	bife	32	85	6	5700	St.Cu	1	-	-	*
Benson	1039.9	-1	N	2	b3fx	30	97	3	-	-	-	-	-	*
S. Farnborough	1039.6	-1	NW	1	bm	30	97	5	-	-	-	Ci	3	*
London (M.O. at 1H.)	1039.5	-1	N	3	bmx	34	92	4	-	-	-	A.St	3	*
Croydon	1039.5	-1	N	2	~~ocf~~ 0x3f (red)	33	92	3	1.250	St	9	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18H. G.M.T. of 9th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7H. G.M.T. of 10th: Barometer at M.S.L. mb.	‡ Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 hours ended 7H. 10th: † Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine 9th Hours
Lerwick	1036.6	39	NW	1	bc	1039.7	-1	43	+4	SW	2	-	b	1	1	45	36	b	bc	bc.b	*
Stornoway	1040.6	43	WNW	3	bc	1042.7	0	41	+5	SW	3	-	o	2	1	46	36	bcp	bc	bc.bo	2.7
Castlebay (Barra Is)	1041.4	45	N	2	b	1044.0	0	39	-2	-	0	-	b	1	-	48	39	c.bc	c.b	b	4.7
Malin Head	1041.6	46	W	1	c	1044.1	0	39	-4	SW	1	-	bc	2	trace	47	38	bc	bc	b.bmx	7.0
Blacksod Point	1041.1	39	-	0	b	1042.9	0	35	-3	NW	1	-	b	1	-	53 (red)	33	bc	b	b	*
Roche's Point	1041.4	39	E	1	b	1043.4	-1	36	-1	NE	2	NE	bc	2	0.2	48	35	o.b	b	bx.bc	*
Birr Castle	1042.2	40	N	1	c	1044.9		27	-2	N	1	-	bc	*	-	46	26	f.c	f.c	c.bcfc	4.5
Donaghadee	1041.7	41	WNW	1	bcm	1044.1	0	37	+1	W	1	-	bcm	1	0.2	47	36	bcm	bcm	bcm	*
Liverpool (Bidston)	1040.5	40	NNW	2	b	1043.2	0	33	-4	NNW	1	-	bm	1	-	42	33	~~c.b.bc~~ f.b.cm (red)	bm.b	bmx	2.8
Holyhead	1040.5	44	NE	4	b	1043.2	0	38	-6	NE	3	-	bif	2	-	49	34	c.b.bc	bc.b	b3b3x	7.4
Pembroke (St. Ann's Head)	1040.1	43	NNE	2	b	1042.7	0	35	-6	NE	2	-	bif	3	-	48	35	c.bc	b	bv.b	7.4
Scilly (St. Mary's)	1038.8	46	NE	1	bc	1040.5	0	41	-3	E	1	-	bif	3	-	49	40	o.c.bc	bc	bcobcbm	4.9
Jersey (St. Aubin)	1035.8	43	NE	3	c	1036.7	0	42	+4	NE	4	NE	bc	3	-	46	38	oco	oc	c.b.bc	0.0
Portland Bill	1037.4	42	NNE	4	b	1039.6	0	39	-1	NNE	4	-	b	4	-	44	36	o.b	b	b	*
Dungeness	1035.7	38	NNE	3	bc	1035.9	0	36	+1	N	4	NE	b	3	-	42	32	bc.c	c.bc	c.bc	*
Wick	1038.8	39	W	1	bc	1042.2	0	36	+2	WNW	1	-	bc	1	2	44	33	b.b.pc	bcp	bcpbbc	*
Nairn	1040.3	36	W	1	c	1043.3	*	34	0	-	0	-	bc	1	0.4	43	32	bc.⊛	bcp⊛c	c.bcx	4.2
Leith	1040.0	40	W	1	b	1043.4	0	33	-2	SW	1	-	b	1	-	45	32	cm.bc	bcb3.b	b3.bcb	*
Tynemouth	1039.8	42	-	0	bc3f	1042.7	0	36	+1	NW	3	-	bczf	2	-	44	34	bcm	bcm	b3.bm	*
Spurn Head	1038.4	42	N	4	bm	1040.2	0	42	+4	NNE	4	-	bcp	3	trace	43	35	bm	bm	bc.bcp	*
Yarmouth (Gor Island)	1036.0	41	N	4	c	1037.8	-1	41	+7	NNE	4	-	cq	2	-	43	33	cm	cm.fm	bvbmbyc	0.0
Clacton-on-Sea	1036.8	41	NNW	3	c	1037.8	-1	35	+2	NW	3	-	bcx	1	-	41	33	bcm	cm	bm bcx	0.6
Nottingham	1039.4	40	NE	1	c	1041.6	*	37	+2	N	3	N	bcm	*	-	44	33	o.c bm	bcm	cm.b	5.4

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. ⸸ For code see page 3. † See footnote p. 4.

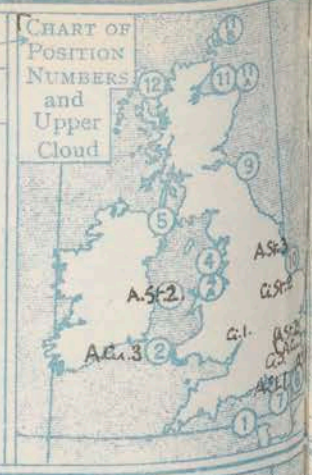
M.O. FORM 2370

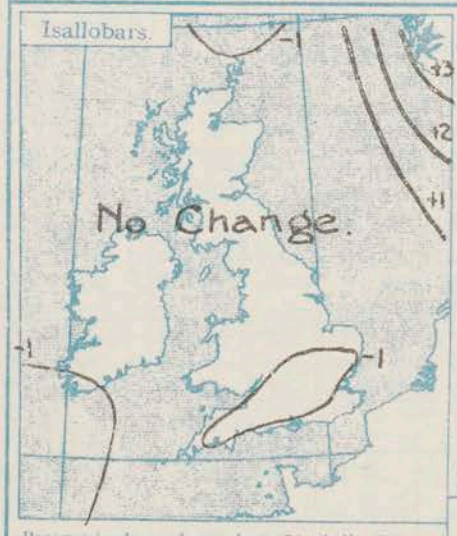
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 10.2.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Mainly fine, misty.	Indiff.	Slight
2. E. England	Fine to cloudy.	Fair	Smooth
3. E. Midlands	Fine or fair, misty.	Poor	-
4. W. Midlands	Fine, misty.	"	-
5. S.W. England	Fine, slight mist.	Fair	Slight
6. South Wales	Fine, slight mist.	"	"
7. North Wales	Fine.	Good	Smooth
8. N.W. England	Fine, misty, fog at Manchester.	Poor	"
9. N. Midlands	Fair or cloudy, misty.	Indiff.	-
10. N.E. England	Fine to cloudy, slight mist.	Good	Slight
11. E. Scotland	Fine or fair, local mist.	Indiff.	Smooth
12. S.W. Scotland	Fair or fine.	Fair	"
13. Isle of Man	Fair or fine.	Good	"
14. N. & N.W. Scotland	Fair or fine.	Fair	"
15. Hebrides	Fine in South; dull in North.	Fair	"
16. Orkneys and Shetlands	Fine.	Good	"
17. N.W. Ireland	Fair or fine.	"	"
18. N.E. Ireland	Fair.	"	"
19. S.E. Ireland	Fair or fine.	Indiff.	"
20. S.W. Ireland	Fair or fine.	Good	"

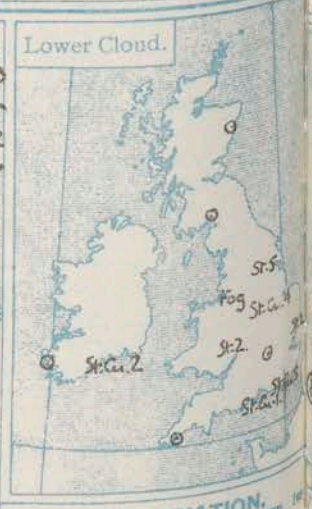
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5.	9th	06.15	46	44
6.	"	15.00	47	43
3.	"	10.10	48	43.5
2.	10th	02.10	46.5	46
7.	"	03.00	49	44
12.	"	04.30	46	45
4A.	"	04.45	41	44





Barometric change from 4 h. to 7 h. (half millibars).



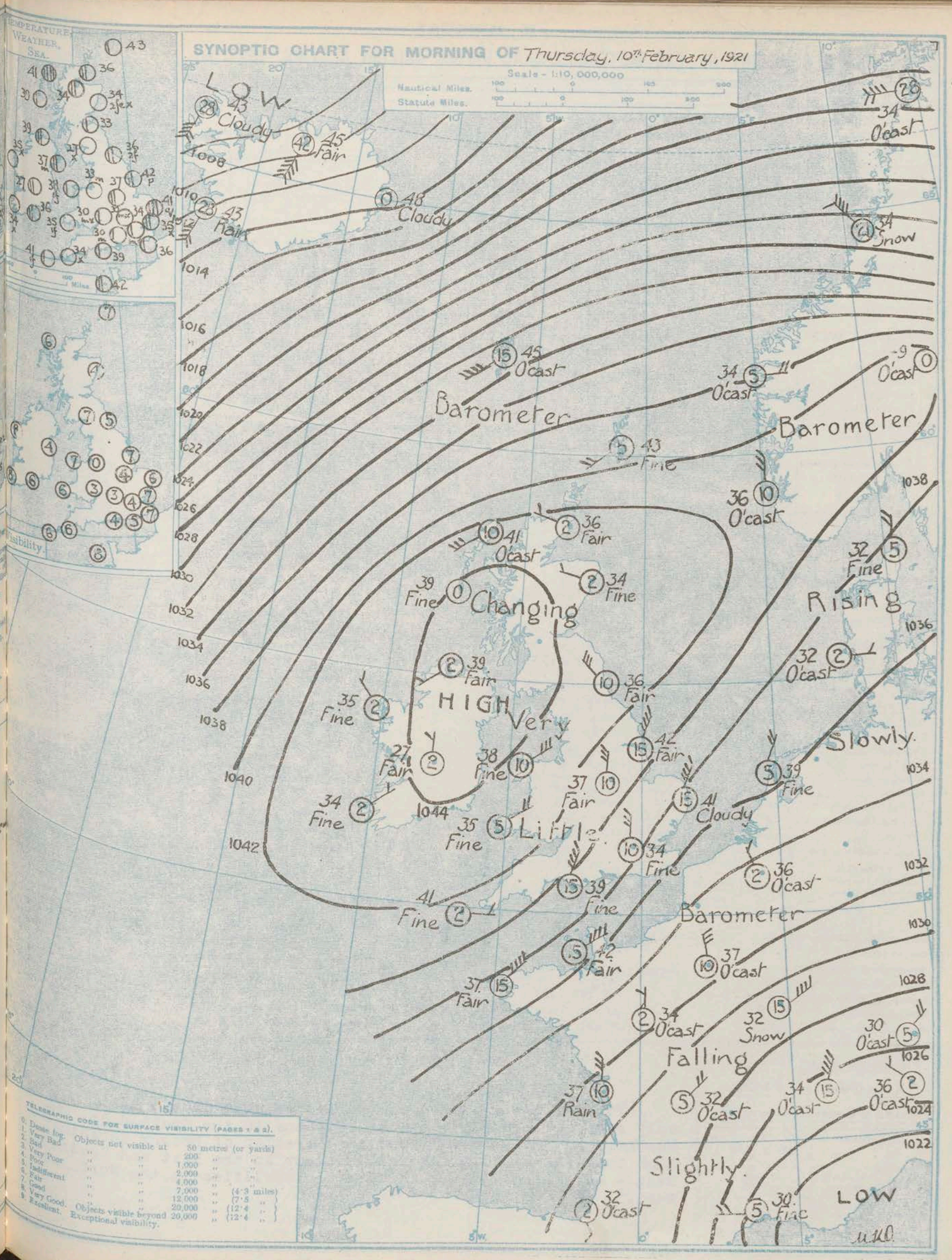
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky; sky ½ clouded; sky ¾ clouded; overcast sky; rain falling; snow; sleet; hail; fog; mist; T thunder; R thunderstorm.
SEA DISTURBANCE.—Rough; High.

GENERAL INFERENCE from observations received up to 9h.

The anticyclone over the British Isles will probably extend slowly North-Eastward or Eastward and will maintain generally fair cold weather for a time.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 10th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind between N. and N.E., light, to fresh, stronger on coast; fine generally, visibility fair or good; little change of temperature; frost at night.	Mainly fair, with a low temperature.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between N.E. and E., moderate to fresh; fine, visibility fair; little change of temperature; frost at night.	
9. N. Midlands 10. N.E. England	Same as 1 - 4.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland	Wind mainly variable, light; fine, visibility indifferent to fair; cold, frosty.	
15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind light to moderate from some Westerly point; fair, visibility good; rather cold; frost at night.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind light variable, then probably Southerly; fair, visibility fair or good; cold, frost at night.	

N.S.


SYNOPTIC CHART FOR MORNING OF Thursday, 10th February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE.
WEATHER.
SEA.
Visibility.
LOW
Cloudy
Fair
Rain
Cloudy
Snow
O'cast
Barometer
Fine
O'cast
Fair
O'cast
Fine
Changing
Fine
Fair
Fine
HIGH
Very
Little
Fine
Fair
Fine
Fine
Cloudy
Fine
Slowly
Rising
Barometer
Falling
Rain
Slightly
LOW
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. " " 20,000 " (12·4 "
9. Excellent. Objects visible beyond Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No: 41 ... THURSDAY 10TH FEBY.

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 8TH-9TH	Rainfall. Day. 9h-18h. 9TH	Sunshine. Sunrise to Sunset. 9TH
Scotland.	Banff	b	b.bc.b	45	30	0.1	-	7.1
England, N.E.	Harrogate	b	b	43	31	0.1	-	8.0
	Skegness	om.bc	bc.b	42	33	-	-	3.4
England, E.	Lowestoft ...							
	Felixstowe	bc.f		41	29	-	-	1.0
	Southend-on-Sea...	o	o	42	33	-	-	0.1
England, S.E.	Tunbridge Wells	om	o	42	33	-	-	0.0
	Margate	c	bc.c.o	42	37	-	-	0.5
	Ramsgate	"	"	40	34	-	-	0.4
	Folkestone	c	c	42	33	-	-	2.1
	Hastings	b.bc.o	o.c.o	43	35	-	-	2.8
	Eastbourne	bc.c.o.o		43	35	-	-	1.6
	Brighton	o.o.c	bc.z	42	38	-	-	0.0
	Worthing	o	o.c	42	37	-	-	0.0
	Portsmouth (S'thsea)	-	-	44	37	-	-	0.0
	Bournemouth ...	"	"	45	36	-	-	3.0
England, N.W.	Blackpool	om	b	43	32	1	-	3.5
	Southport	oc.bc	bc.b	41	33	2	-	2.2
Midlands.	Leamington Spa...	b.bz	bc.bm	45	35	-	-	5.0
	Bath	oc.bc.b	bc.b	47	38	-	-	5.5
Wales.	Rhyl	bc	bc	45	37	-	-	6.1
	Colwyn Bay ...	-	-	46	37	-	-	5.1
	Llandudno	c.c.b	?	47	38	0.2	-	6.2
	Aberystwyth ...	b.bc		47	36	-	-	8.0
England, S.W.	Weymouth	o.bc	bc.b	48	37	-	-	4.2
	Torquay	bcm	b.bz	48	36	-	-	6.5
	Paignton	bc.c.bc	bc.b	?	35	-	-	5.6
	Penzance	bc	bc	48	40	0.3	-	7.2
	Bude	a.bc.o.b	bc.b	47	30	-	-	6.6
	Ilfracombe	c.bc.b	bc.c.b	47	40	-	-	5.5

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 9TH	Weather. 18h-18h 9TH	Weather. 18h 9TH-18h 10TH	Weather. 18-7 10TH	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
Renfrew ...	bbc3f.d	bccf.lf2f	bccz.f.b3f	b.bz4f4-5fx	48	29	16	mm. -	mm. -	4.1
Eskdalemuir	4-5f.b.bc	bif	bif.	bbc	43	24	19	-	-	5.9
Valencia (Cabirc'ny) ...	bc.bc.bf	bbcbbc	bbc.b	bcc	50	33	27	-	-	7.3
Baldonnel	b.bc.lf	b.bclf	bzf.x	bbcc.lf.df	47	27	20	-	-	7.6
MANCHESTER (ALEXANDER PARK)	6-8fe	6-8fe	6-8fe.df	b3fe.6-8fe	35	20	19	trace	-	*
Ross on Wye... ...	cozf.obc.c	bbcz.bbc	bzf	bzf.x.bbc	46	29	22	-	-	3.4
Falmouth	bccf.b.bc	bcc.bozf	lf.b	bcc	48	31	24	-	-	7.6
Calshot (Hants)...	ozf.g.ozf	cef.gc.bzf	bzf	bzf.bcz.fcf	44	33	26	-	-	1.0
Lympne (Folkestone) ...	bbcc.ccolf	olf.o3f	ozf.bcc.lf.q	bccf.bbcq	40	31	32	-	-	3.1
Aberdeen	4-5fe.zfe.fe.b	b.b.bc	b.lfe	zfe.q	44	31	30	-	-	7.9
Howden	3.zfe.	3.b.bc	x.b.bc	x.bc.c	45	26	16	-	-	5.7
Cranwell (Lincs)	3f.b	bbc.c.o	b.bc.b	b.bc	44	30	27	-	-	6.5
Felixstowe	co.olf	ozf.b.o	zf.b	b.b.zb	41	31	30	-	-	0.7
Shoeburyness	cozfe	zfe.lfe.	bcc.bbc	lfe.x	42	31	28	-	-	0.5
Benson	ozf.c.o	c.o	b.bc.c	b3f.x	45	30	22	-	-	*
S. Farnborough ...	ozf	o.bcc.c.o	bcc.b	bzf	44	30	24	-	-	1.5
London (Kew Obsy.) ..	ozf	ozf.zf.bczf	zf.b	bbczf.x	45	34	30	-	-	0.9
Croydon	o4-5fo3f	o3f	ozf.c.o.b.c.bc zf.bbc	b.o.c.zb3f	43	32	27	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:
R = heavy rain,
rr = continuous moderate rain,
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS—
Aurora ⌂ Rime ✕ Lunar halo ◎
Glazed frost ~ Solar corona ☼
Glazed roads ⚒ Lunar corona ☾
Line Squall ⊗ Snow lying ▦
Solar halo ⊕

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. 10TH							YESTERDAY		TO-DAY.
Greenwich (Royal Observatory)	o3	o3.b.o3	o3.bzbz	43	33	28	-	0.0	70	92
City (Bunhill Row) ...	*	*	*	*	*	*	*	trace	*	*
Westminster (St. James's Park)	"	"	bcm.bc	45	35	28	-	0.1	72	85
REGENTS PARK (BOTANIC GDNS)	*	*	*	*	*	*	*	1.7	*	*
Camden Sq. (British Rainfall)	o.c.bc	b.c.b	"	45	32	26	-	-	78	90
Kensington Palace ...	o.bc	bc	"	45	31	29	-	*	76 (185)	89
Hampstead Observatory ...	"	"	"	43	31	28	o3	2.1	"	92

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ... 179 ... Joules.

Milliwatts.
Average Rate. 5.2
Maximum Rate. 18

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

10TH & 11TH FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.22 / 7.20	12.7 / 12.9	4.52 / 4.54
Greenwich	7.16 / 7.14	12.14 / 12.14	4.54 / 4.52
Wick ...	8.0 / 7.59	12.26 / 12.26	4.34 / 4.32
Valencia ...	8.5 / 8.6	12.25 / 12.25	4.44 / 4.44

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 9TH 18 h. 0 m. to 10TH 6 h. 30 m.

Star	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	30	9	15	74
δ Ursae Minoris	12	30	8	34	69

NOTES ON THE WEATHER OF YESTERDAY.

Temperature exceeded 45° at many places in the West, but only rose to about 40° at some stations in the South-East. The Weather was dry generally and the duration of bright sunshine high over the Kingdom generally except in the East and South-East - more than 7 hours in several localities in the North and West.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21,631 FRIDAY, 11th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

13H. G.M.T. 10th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1045.0	-1	-	0	o7f	30	97	0	<500	St	10	-	-	8
Eskdalemuir	1044.1	0	E	2	bc	42	75	7	3000	Cu	5	-	-	*
Valencia (Cahirc'n)	1043.8	-1	ENE	1	b	48	65	8	4,200	Cu	3	-	-	4
Baldonnel	1044.3	-1	N	1	bc2f	42	85	5	3,000	Cu	4	-	-	*
Manchester (Alex. Pk.)	1042.8	-2	NE	3	o3f	42	85	3	1250	St	10	-	-	*
Ross on Wye	1040.6	-2	NE	3	b	43	75	5	3,000	Cu	1	Ci	1	*
Falmouth	1040.1	-1	NE	4	bif	45	65	6	-	St.Cu	1	Ci	1	*
Calshot (Hants)	1038.3	-2	N	4	bc2f	42	92	5	2000	Cu	5	-	-	2
Lympne (Folkestone)	1036.4	-1	NE	5	cq	41	85	8	1,250	Cu	7	-	-	*
Aberdeen	1043.7	-1	WNW	2	bif	45	65	7	-	-	-	-	-	2
Howden	1042.3	0	NNE	3	c	43	85	7	3,000	St.Cu	5	Ci.St	1	*
Cranwell (Lincs)	1040.7	-1	NE	3	bc	44	75	8	4,200	Cu	4	Ci	1	*
Felixstowe	1038.1	-1	NNE	5	bc	45	85	7	2000	Cu	6	-	-	3
Shoeburyness	1037.9	-1	NNE	5	b	44	85	7	3,000	Cu	3	-	-	*
Benson	1038.6	-2	NNE	3	c	42	75	6	-	St.Cu	7	-	-	*
S. Farnborough	1038.6	-2	NE	3	o	42	85	6	750	St.Cu	9	-	-	*
London (Kew Obsy.)	1038.4	-3	NE	4	c2f	43	75	5	4,200	Cu	8	-	-	*
Croydon	1038.1	0	NNE	4	o2f	43	75	4	2,000	St	9	-	-	*

18H. G.M.T. OF 10th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1044.0	+1	W	2	o3f	35	85	3	-	Ci.St	8	A.St	1	8
Eskdalemuir	1043.6	0	SW	1	b	31	85	6	-	-	-	Ci.St	1	*
Valencia (Cahirc'n)	1042.9	0	ENE	1	b	40	85	8	-	-	-	Ci.St	2	4
Baldonnel	1043.8	+1	N	1	b2f	39	85	5	1,250	Cu	2	-	-	*
Manchester (Alex. Pk.)	1041.9	0	NE	3	o3f	41	85	3	1,250	St	10	-	-	*
Ross on Wye	1040.0	0	NE	2	b	40	85	4	1250	St	2	Ci	1	*
Falmouth	1038.8	0	NNE	3	bc2f	42	75	5	-	St.Cu	4	A.Cu	2	*
Calshot (Hants)	1037.3	0	NNE	3	bif	41	85	6	3,000	St	1	-	-	2
Lympne (Folkestone)	1036.3	+1	NE	5	c4q	39	86	7	750	Nb	8	-	-	*
Aberdeen	1042.6	0	WNW	1	bc2fe	38	85	5	-	-	-	Ci.St	4	2
Howden	1041.7	+1	NNE	1	bc	36	92	7	4,200	St.Cu	1	A.St	3	*
Cranwell (Lincs)	1040.8	+1	NNE	1	o	37	97	6	3,000	St.Cu	10	-	-	*
Felixstowe	1038.2	0	NNE	4	r0	39	97	6	2 000	St.Cu	10	-	-	3
Shoeburyness	1037.5	+1	NNE	3	b	39	85	7	3,000	St.Cu	2	-	-	*
Benson	1039.0	0	NNE	2	b	37	85	7	-	-	-	-	-	*
S. Farnborough	1038.0	0	N	1	o	40	85	7	1,250	St.Cu	9	-	-	*
London (Kew Obsy.)	1038.4	+1	NE	4	bc2f	41	75	4	4,200	Cu	2	A.Cu	3	*
Croydon	1038.1	+1	NNE	4	bc2f	40	85	4	2,000	St.Cu	4	-	-	*

1H. G.M.T. OF 11th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1042.5	-1	-	0	b3f	26	97	2	-	-	-	-	-	*
Eskdalemuir	1042.5	-2	-	0	b	23	97	6	-	-	-	-	-	*
Valencia (Cahirc'n)	1042.1	0	ENE	2	bc	38	*	*	*	*	*	*	*	3
Baldonnel	1043.3	0	S	2	bx	30	92	4	-	-	-	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1038.8	0	NE	3	b	37	85	7	-	-	-	-	-	*
Calshot (Hants)	1038.6	-1	N	3	c	38	92	8	3,000	St	8	-	-	2
Lympne (Folkestone)	1036.3	-1	NNE	4	o4r.	35	97	6	1250	Nb	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1040.4	-2	NNW	1	o	36	92	7	3,000	St	4	A.St	5	*
Cranwell (Lincs)	1039.6	0	N	1	bc	34	97	6	3,000	St.Cu	6	-	-	*
Felixstowe	1038.1	0	N	4	or2-3f	39	92	5	1250	Nb	10	-	-	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1h.)	1037.7	0	*	*	*	39	*	*	*	*	*	*	*	*
Croydon	1037.4	-1	NE	4	bcif	38	75	6	3,000	St.Cu	2	A.St	2	*

7H. G.M.T. OF 11th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1040.0	-2	-	0	o4f	30	97	2	3,000	St.Cu	10			*
Eskdalemuir	1044.5	-1	-	0	bcx	24	97	6	-	-	-	A.St	5	*
Valencia (Cahirc'n)	1041.8	0	-	0	bx	41	92	8	-	-	-	-	-	*
Baldonnel	1041.5	-2	-	0	o3f	35	92	3	750	St.Cu	10	-	-	*
Manchester (Alex. Pk.)	1039.8	-1	N	1	o3f	36	92	5	1250	St	10	-	-	*
Ross on Wye	1038.1	0	NE	3	o2f	38	85	4	2,000	St.Cu	10	-	-	*
Falmouth	1037.4	0	NE	2	bcif	35	85	6	-	St	4	A.Cu	2	*
Calshot (Hants)	1036.5	-1	N	3	o4f	36	97	6	4200	St.Cu	6	A.Cu	4	2
Lympne (Folkestone)	1034.8	0	NE	2	c4f	34	92	7	1250	St	7	Ci	1	*
Aberdeen	1037.4	-2	WSW	2	c3fe	39	55	2	3,000	St.Cu	8	-	-	2
Howden	1038.8	0	NNW	2	o2f	36	97	4	3,000	St	10	-	-	*
Cranwell (Lincs)	1038.0	0	N	1	o2f	34	97	5	2,000	St.Cu	9	-	-	*
Felixstowe	1036.1	-1	N	2	o	37	92	6	3,000	St.Cu	10	-	-	2
Shoeburyness	1035.5	-1	N	3	o	37	85	7	2,000	St.Cu	9	-	-	*
Benson	1036.5	-1	NNE	2	o	34	97	5	-	St.Cu	10	-	-	*
S. Farnborough	1036.0	-1	NNE	2	o	36	85	7	3,000	St.Cu	4	A.Cu	6	*
London (M.O. at 1h.)	1036.2	-1	N	2	o2f	38	75	34	3,000	St	8	Ci.Cu	1	*
Croydon	1036.2	-1	NNE	4	o2f	37	85	4	1250	St	9	A.St	1	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	18h. G.M.T. of 10th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7h. G.M.T. of 11th: Barometer at M.S.L. mb.	‡ Change in 3 hours	Temp. °F.	Temperature Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 hours ended 7h. 11th: † Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (10th)
Lerwick	1036.0	46	SW	4	c	1028.6	-3	47	-4	W	3	-	og	3	2	48	42	c	cq	cvq.orq	·4
Stornoway	1041.4	46	SW	2	c	1035.5	-1	47	+6	WSW	2	-	o	4	-	47	41	bc.c	c	c.o	1·2
Castlebay (Barra Is.)	1043.3	47	W	2	o	1040.8	0	48	+4	W	3	-	o	3	-	48	39	b.o	o	o	3·5
Malin Head	1043.9	45	W	1	c	1041.2	0	46	+7	NNW	2	-	o	2	-	47	39	bc	bc	bc.cp.o	6·4
Blacksod Point	1044.2	45	NNW	1	c	1042.9	0	35	0	-	0	-	bc	1	-	47	33	b	bc	c.bc	*
Roche's Point	1042.6	42	N	1	bc	1041.6	-1	37	+3	N	2	-	o	2	0·2	48	34	bc	bc	b.o	*
Birr Castle	1043.9	36	NW	1	m	1042.4	*	29	+1	NW	1	-	m	*	-	39	25	of.og	f	f.ogx	0·0
Donaghadee	1043.5	43	N	1	bm	1040.6	-2	40	+3	W	1	-	o	1	-	46	28	bcm	bcm	bcm	*
Liverpool (Bidston)	1042.0	40	SE	2	bc	1040.0	-1	36	+3	NNE	1	-	o	1	-	48	33	bm	bc	bc.o	5·5
Holyhead	1042.4	42	NE	4	b	1039.4	-1	37	-1	E	2	-	bc	0	TRACE	47	34	bc bz	bz	bc.cgx	7·6
Pembroke (St. Ann's Head)	1041.4	41	ENE	2	b	1039.7	-1	37	+2	NNE	2	-	b	3	-	45	35	bz	b	b	7·6
Scilly (St. Mary's)	1038.3	44	ENE	3	c	1037.4	-1	40	-1	E	4	E	bc	5	-	47	39	bmb	b bc c.	c.b.bc	7·7
Jersey (St. Aubin)	1034.2	43	NE	5	c	1031.5	0	40	-2	ENE	4	-	o	4	1	47	39	bc.b.	bc	c.opd.o	6·3
Portland Bill	1037.2	41	NNE	5	bc	1035.4	2	38	-1	NNE	5	NE	bc	5	-	45	34	b.bc	bc	bc.b.bc	*
Dungeness	1034.7	42	NE	5	c	1033.6	-1	38	+2	ENE	4	E	c	4	2	44	36	cp.c	bq.bc	cpq.b.c	*
Wick	1040.6	41	SW	2	c	1034.4	-2	45	+9	W	3	-	o	2	-	49	35	bc	bc c	c.o	*
Nairn	1042.3	40	W	1	c	1037.3	*	44	+10	W	1	-	cg	1	-	44	32	bc	bc.cq	cg	6·2
Leith	1042.1	37	W	1	b	1038.8	-1	36	+3	W	1	-	o	1	-	44	32	bz.bc	b	bz.bm.o	*
Tynemouth	1043.5	42	N	2	bc	1040.2	-1	37	+1	WNW	2	-	cf	2	-	43	33	bcmp	bc	bcm.bcm	*
Spurn Head	1039.8	42	NNE	4	c	1037.6	-2	42	0	NE	4	-	c	3	0·1	46	37	bc	cp	b.o.c	*
Yarmouth (Gorleston)	1037.3	42	NE	5	c	1035.4	-1	40	-1	NE	4	-	oqv	3	-	44	40	bq.bcq	cq.v	og.cv.og	7·6
Clacton-on-Sea	1037.2	40	NE	4	c	1035.7	-1	39	+3	N	3	N	og	2	1	44	34	bcp	bc cp	cp.og	3·2
Nottingham	1041.0	40	NE	2	b	1038.1	*	38	+1	N	2	N	om	*	-	45	35	bc	bc.b	b	2·6

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

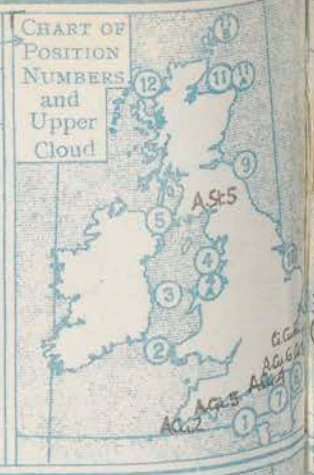
M.O. FORM 2370

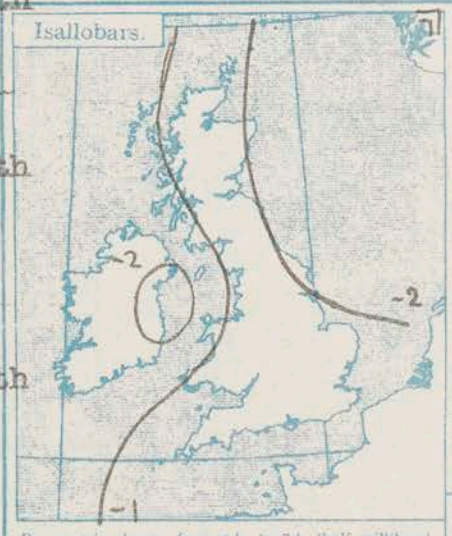
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 11.2.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty.	Fair	Slight
2. E. England	Dull, misty, squally.	Good	Smooth
3. E. Midlands	Dull, misty.	Indiff.	-
4. W. Midlands	Dull, some fog.	V. Poor	-
5. S.W. England	Fair, misty.	Fair	R. Rough
6. South Wales	Fine.	Good	Slight
7. North Wales	Fair.	V. Good	Calm
8. N.W. England	Dull, some fog.	V. Poor	V. Smooth
9. N. Midlands	Dull, misty.	Poor	-
10. N.E. England	Cloudy.	Fair	Smooth
11. E. Scotland	Foggy, damp.	Bad	"
12. S.W. Scotland	Sharp frost.	Fair	V. Smooth
13. Isle of Man	Dull, misty.	"	"
14. N. & N.W. Scotland	Gloomy.	"	"
15. Hebrides	Dull.	"	Smooth
16. Orkneys and Shetlands	Dull, squally.	"	Slight
17. N.W. Ireland	Fair.	Good	V. Smooth
18. N.E. Ireland	Dull, misty.	Fair	"
19. S.E. Ireland	Squally.	"	Smooth
20. S.W. Ireland	Frosty.	V. Good	-

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	10th	08·25	47	40
3	"	10·00	49	45
2	11th	02·00	49	44
7	"	04·50	46	39
8	"	03·20	45	40
4A	"	04·00	45	41





Barometric change from 4 h. to 7 h. (half millibars).

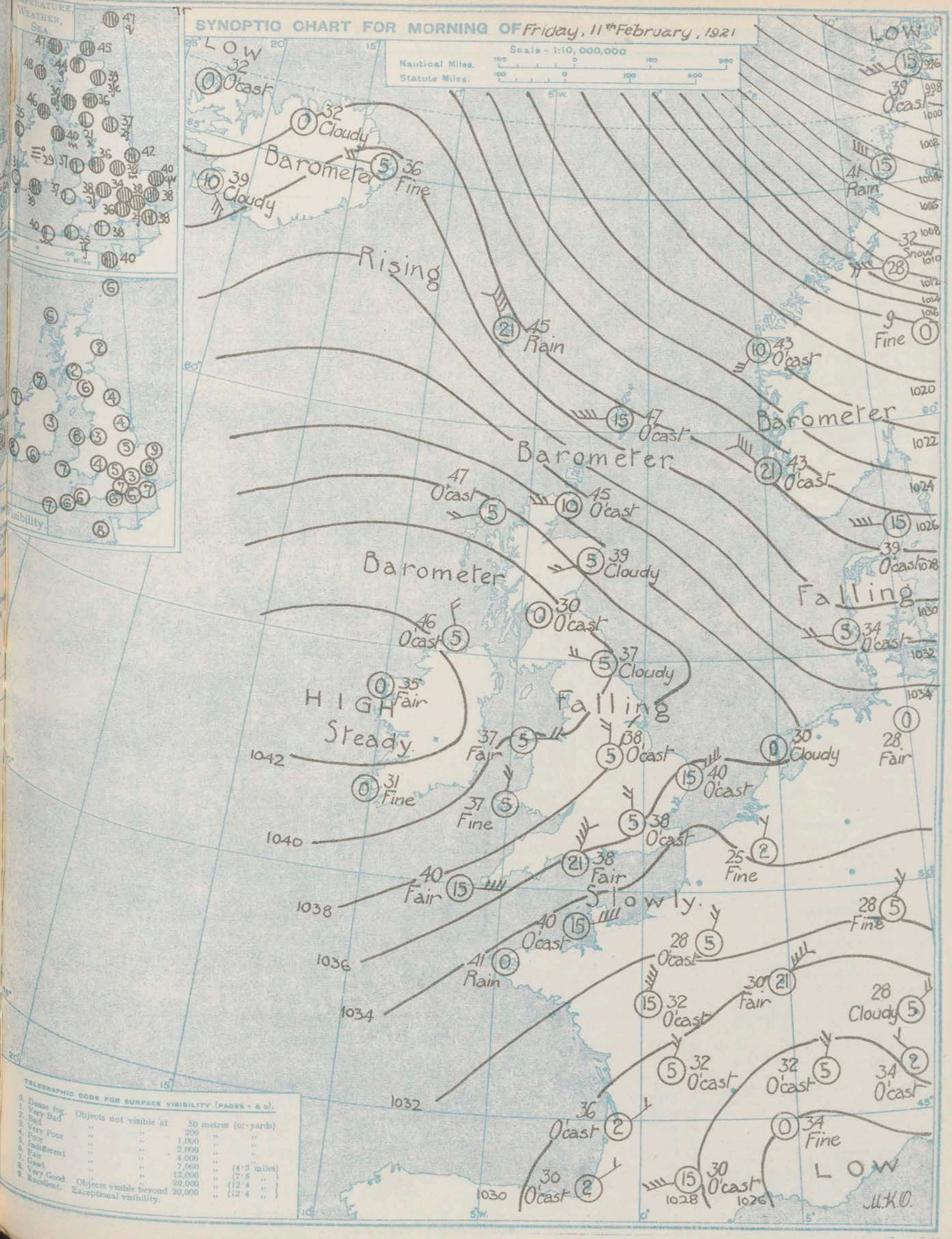
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ½ clouded. sky ¼ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

The anticyclone over the Irish region will move very slowly Westward or remain stationary and winds from between North-West and North-East are probable over the British Isles. Some showers may be expected in the Eastern districts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 11th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind mainly between N. and N.E., moderate, stronger locally; much cloud generally, some showers probable, fairer intervals, visibility fair; temperature rather low, but little or no frost.	None issued.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind mainly N.E., light or moderate; fair or cloudy, visibility fair; temperature rather low, but little frost.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind N. or N.W., light or moderate; mainly overcast, some showers, visibility fair; moderate temperature.	
12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland	Wind light, Westerly or variable; cloudy or fair, visibility indifferent to fair; temperature rather low; frost locally.	
15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind W. to N.W., light or moderate to fresh or strong; much cloud, some showers; visibility fair; moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind light variable or between N.E. and N.W.; mainly fair, visibility fair generally; temperature rather low, frost locally inland.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.20. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Friday, 11th February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Rising
Barometer
Falling
Steady.
Slowly.
HIGH
Rain
Fine
Cloudy
Fair
O'cast
Snow
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.
M.K.O.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 42

Friday 11th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 9th-10th	Rainfall. Day. 9h-18h. 10th	Sunshine. Sunrise to Sunset. 10th
Scotland.	Banff	b	b.bc.c	44	30	-	-	6.9
England, N.E.	Harrogate	cp.bc	c.bc b	42	32	-	0.1	2.0
	Skegness	b	bob.	45	36	1	-	5.8
England, E.	Lowestoft	bc	bc.co	44	35	-	-	6.5
	Felixstowe	cg	cnp	40	33	1	1	4.5
	Southend-on-Sea	xm cp	bc.cop	44	32	-	0.2	3.5
England, S.E.	Tunbridge Wells	om.o	c.bcc	44	31	-	-	0.9
	Margate	o.cp.bc	cp.o	40	36	0.2	1	2.8
	Ramsgate	*	*	43	36	2	1	4.5
	Folkestone	op.c	cp.c	44	36	1	0.3	3.2
	Hastings	b.bc o	c.op	44	35	*	1	4.4
	Eastbourne	bc c	c op	45	34	-	1	5.1
	Brighton	c	c	45	35	-	-	4.2
	Worthing	b.bc c	c bc	44	34	-	-	4.1
	Portsmouth (S'thsea)	*	*	45	35	-	-	6.0
	Bournemouth	*	*	44	31	-	-	6.2
England, N.W.	Blackpool	bc	bc	44	31	-	-	6.6
	Southport	b	bc	44	28	-	-	5.8
Midlands.	Leamington Spa	oc	c	46	24	-	-	3.5
	Bath	b bc co	c.bc b	44	28	-	-	1.8
Wales.	Rhyl	x.bc	x.bc	46	~~28~~ 30	-	-	5.1
	Colwyn Bay	*	*	42	29	-	-	7.1
	Llandudno	b	b	44	26	-	-	6.8
	Aberystwyth	b	bc	44	29	-	-	4.6
	Tenby							
England, S.W.	Weymouth	x.2	b	46	32	-	-	6.5
	Torquay	bm	b.bcm	46	34	-	-	6.0
	Paignton	bc.bx	bc.b	46	34	-	-	5.1
	Penzance	b	b.bc	48	36	-	-	8.3
	Bude	w.x.bc	c	46	32	-	-	7.3
	Ilfracombe	b.bc c	c o	45	38	-	-	2.6

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 10th	Weather. 13h-18h. 10th	Weather. 18h-19h. 10th	Weather. 19h-1h. 11th	Weather. 1h-7h. 11th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	b.bc 2f 2f	2x c.8f	c.bc 2f	2f 2f	b.bc 2f	48	25	16	-	-	0.0
Eskdalemuir	b.bc	b bc	b. bc	b. bc	b. bc	43	19	17	-	-	4.2
Valencia (Cahirc'n)	b. bc	b bc	bx	bx	bx	48	30	26	-	-	4.2
Baldonnel	3f 2f	b.bc 2f	c.o.bc 34 x	bc c.o 2f x	bc c.o 2f x	45	36	20	--	--	3.1
Manchester (Alex. Pk)	x 4 8f c 2f	03f	c.o.b.c	b.bc 3f	b.bc.co 3f	43	32	25	TRACE	-	*
Ross on Wye	bc.c 4f b 2f	bc c 2f b 2f b c	c 4f	c.o 2f	o 2f b.bc 3f b	44	30	28	-	-	1.8
Falmouth	2f 3f b.	b bc 4f bc 2f	b.bc 4f b.	b.bc	47	33	28	-	-	4.4	
Calshot (Hants)	b.bc 2f	b bc 4f bc 4f b bc 4f	b bc 4f b bc 4f b	c.o 4f. 0 2f	45	33	24	-	-	6.4	
Lympne (Folkestone)	1f rs 4 bc c	co bc c 4 r	o 1f rr	o 4f. c o 1f	43	33	31	1	3	4 ~~3~~ 5	
Aberdeen	3f c 1f.	1f. 1f c	3f c. 3f c	3f c.	46	33	28	-	-	6.8	
Howden	4 co.	bc c	c. o	o 2f c	46	32	24	-	-	3.9	
Cranwell (Lincs)	o 2f bc c	bc c b	b.bc.c rs rs	p c.o	45	30	24	0.1	0.1	5.8	
Felixstowe	bc c b	co 4	o 3f p	6 o 1f	46	35	34	1	1	4.5	
Shoeburyness	x. prs	b.bc	c. o r	o	45	31	32	0.2	1	4.2	
Benson	4s co	c.o b.	b.bc.b	o x	44	30	21	0.2	-	*	
S. Farnborough	b bc c b	co bc c	bc c.c.o	c.o.o	44	30	20	TRACE	-	1.3	
London (Kew Obsy.)	w 3f bc c o	co b bc c 4	bc c 3f	o 2f	45	34	32	TRACE	-	2.5	
Croydon	o 3f x c o o 2f	o 2f co bc c 4f pb 4s	4f.b.bc.b.o.bc c.4f.b.bx	bc c.c.c.o 2f	44	32	33	TRACE	-	*	

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:–
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS– Solar halo ⊗ Aurora ⌂ Rime ⌶ Lunar halo ⊖ Glazed frost ~ Solar corona ⊕ Glazed roads ⌂ Lunar corona ⊖ Line Squall ⊗ Snow lying ▦

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 11th							Yesterday.		To-day.
Greenwich (Royal Observatory)	c.o	c.o	5 c.o	45	35	30	-	1.4	73	75
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	*	47	34	32	-		69	73
Regent's Pk (Botanical Gdn)	*	*	*	*	*	*	*	2.4	*	*
Camden Sq. (British Rainfall)	bc.b	c. bc	*	47	35	29	-	*	77	78
Kensington Palace	bc	bc	*	45	33	32	-	*	82 (18h)	79
Hampstead Observatory	*	*	*						*	

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

11th AND 12th FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.20 / 7.18	12.7 / 12.7	4.54 / 4.56
Greenwich	7.24 / 7.22	12.14 / 12.12	4.4 / 4.6
Wick	7.57 / 7.54	12.26 / 12.24	4.54 / 4.57
Valencia	8.6 / 8.4	12.35 / 12.35	5.44 / 5.46

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 10th 18h. 0 m. to 11th 6h. 0 m.

Star.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	00	4	52	39
δ Ursae Minoris	12	00	3	22	27

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to about 45° over the Kingdom generally, but fell to below 32° in many localities at night; at Eskdalemuir the minimum was 19° and at Birr Castle 25°. Slight showers of rain or sleet fell in the East and South-East of England. Bright sunshine records were high generally - more than 7 hours at many stations.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21632 ...SATURDAY...12th FEBRUARY..1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Baron. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Baron. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. ...11th...														18H. G.M.T. OF ...11th...													
Renfrew	1038.1	-4	W	2	01f	48	85	6	3,000	St.Cu	2	A.St	7	*	1037.7	0	WNW	2	0	43	86	7	7,200	St.Cu	5	Ci.St	4	*
Eskdalemuir ...	1038.2	-2	SSE	1	0	38	85	6	7200	St.Cu	9	-	-	*	1037.4	-1	-	0	0	37	85	6	-	-	-	A.Cu	9	*
Valencia (Cahire'n)	1042.2	0	ENE	3	b	45	75	8	3,000	Cu	3	-	-	3	1041.6	0	ENE	2	b	41	75	8	3,000	St.Cu	2	Ci.St	1	3
Baldonnel ..	1041.4	-1	NW	1	01f	41	85	6	3,000	St.Cu	10	-	-	*	1039.9	0	W	1	01f	42	85	6	3,000	St.Cu	10	-	-	*
Manchester (Alex. Pk.)	1038.0	-2	W	2	03f	41	92	2	750	St	6	A.Cu	4	*	1036.9	0	NNW	2	03f	41	85	2	4,200	St	10	-	-	*
Ross on Wye ...	1037.5	-2	NNE	2	0m	42	75	5	3000	St.Cu	10	-	-	*	1036.5	0	NE	1	02f	39	86	4	2,000	St	10	-	-	*
Falmouth	1037.4	-1	NE	4	01f	42	75	6	-	St.Cu	10	-	-	*	1036.3	0	NE	2	b02f	38	75	4	-	St.Cu	2	A.Cu	2	*
Calshot (Hants) ...	1035.8	-2	NNE	4	01f	42	75	6	2,000	St.Cu	4	A.Cu	6	2	1035.4	+1	NNE	1	01f	40	75	6	3,000	St.Cu	1	A.Cu	9	1
Lympne (Folkestone)	1034.7	-1	NE	4	01f	38	85	7	1,250	St	10	-	-	*	1033.7	0	NE	3	0	37	86	8	1,250	St.Cu	9	-	-	*
Aberdeen	1034.9	-2	WNW	5	0	49	75	8	3000	St.Cu	10	-	-	2	1035.7	+1	NW	4	0½	46	97	7	3,000	Nb	10	-	-	3
Howden	1036.9	-4	WNW	1	0	42	75	6	-	-	-	A.Cu	9	*	1036.4	-1	-	0	01f	41	85	6	2,000	St	6	A.St	4	*
Cranwell (Lincs) ...	1037.0	-3	NNW	1	02f	41	92	4	3,000	St	10	-	-	*	1036.2	0	NNW	1	02f	39	92	5	~~4250~~ 4250	St.Cu	5	a.St	5	*
Felixstowe ...	1035.7	-2	NNE	2	0	41	85	7	3,000	St.Cu	10	-	-	*	1034.8	0	N	2	01f	38	92	6	7200	St.Cu	8	A.St	2	8
Shoeburyness ...	1035.6	-1	NE	3	0	41	85	7	3,000	St.Cu	9	-	-	*	1032.3	0	-	0	c	36	85	6	4,200	St	3	A.St	15	*
Benson	1035.7	-1	NNE	3	0	43	75	7	-	St.Cu	9	-	-	*	1035.3	-1	NNE	1	0	40	85	6	-	St.Cu	10	-	-	*
S. Farnborough	1036.1	0	NNE	3	0	40	85	6	2,000	St.Cu	10	-	-	*	1035.0	0	N	1	02f	39	85	5	3000	St.Cu	7	A.Cu	3	*
London (Kew Obsy.)	1035.8	-2	NNE	3	02f	41	75	5	4,200	St.Cu	10	-	-	*	1034.8	0	N	2	02f	42	65	5	3,000	St.Cu	10	-	-	*
Croydon	1035.7	-2	NE	4	02f	41	75	4	2,000	St	10	-	-	*	1034.7	0	NE	1	03f	37	86	2	3,000	St.Cu	7	A.Cu	3	*
	1H. G.M.T. OF ...12th...														7H. G.M.T. OF ...12th...													
Renfrew ...	1038.4	+1	SSW	1	02f	32	97	5	-	-	-	-	-	*	1037.6	-1	NE	1	06f	29	97	1	<500	St.Cu	10	-	-	*
Eskdalemuir ...	1037.6	0	NNE	2	b	38	89	6	4,200	St	10	-	-	*	1037.2	-1	-	0	0x	33	85	7	3,000	Cu	1	-	-	*
Valencia (Cahire'n)	1041.6	0	NNE	3	bc	42	*	*	*	*	*	*	*	3	1040.5	0	NNE	3	0	46	75	7	3,000	St.Cu	10	-	-	*
Baldonnel ...	1039.8	-1	N	3	01f	42	85	6	3000	St.Cu	10	-	-	*	1039.0	+1	-	0	02f	40	86	5	750	St	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1036.2	-1	NSW	2	02f	45	75	4	1250	St	10	-	-	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.3	-1	NNE	1	01f	40	85	6	2,000	St.Cu	10	-	-	*
Falmouth ...	1036.5	+1	NE	1	0	36	86	6	-	-	-	-	-	*	1035.2	-1	NNE	2	0cx pf	35	92	6	-	St	5	-	-	*
Calshot (Hants)...	1035.0	0	NNW	2	02f	40	85	5	-	-	-	-	-	1	1034.2	-1	N	3	02f	40	92	3	2,000	St.Cu	10	-	-	1
Lympne (Folkestone)	1033.0	-1	NE	3	01f	38	97	7	1250	Nb	10	-	-	*	1031.4	-1	N	4	c2f	38	97	5	2,000	St.Cu	3	Ci	4	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.7	0	NW	3	c½f	42	97	7	3,000	Nb	7	-	-	2
Howden ...	1035.4	-2	NNW	~~1~~ 2	01f2	43	92	6	3,000	St	10	-	-	*	1035.5	0	NNW	1	c	40	85	7	2000	St.Cu	5	A.St	2	*
Cranwell (Lincs)	1034.6	0	NNW	2	02	41	97	4	3,000	Nb	10	-	-	*	1034.2	0	N	4	02f	41	97	5	2,000	St.Cu	10	-	-	*
Felixstowe ..	1033.0	-2	N	3	02	43	97	5	3,000	St	10	-	-	1	1032.2	0	N	3	0	41	92	7	1250	St	10	-	-	1
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.0	0	NW	3	01fc	40	92	6	2,000	St.Cu	10	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.5	-1	N	2	02f	40	97	4	-	St	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.7	0	NNW	1	c	39	97	4	750	Nb	8	-	-	*
London (M.O. at 1H.)	1034.3	-1	*	*	*	40	*	*	*	*	*	*	*	*	1033.5	0	N	2	c2f	42	85	4	3,000	St.Cu	7	Ci.St	1	*
Croydon ...	1034.9	-1	NNW	2	01f	39	92	4	1250	St	10	-	-	*	1033.3	0	N	3	02f	41	92	4	750	St	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of ...11th...					7H. G.M.T. of ...12th...									24 HOURS ENDED 7H. ...12th...						11th
Lerwick						1031.6	-5	41	-6	-	0	-	od	0	-	48	35	bcm	c	b.0	*
Stornoway ...	1034.1	40	N	3	c	1034.2	-2	44	-3	-	0	-	0	0	1	49	41	codp	odp	odp.0	0.4
Castlebay (Barra Is)	1039.1	47	WNW	2	od	1038.5	-1	46	-2	NW	2	-	0	2	-	48	46	0	0	0	0.0
Malin Head ...	1040.2	48	NW	3	0	1038.3	-2	47	+1	NW	3	-	0	3	-	47	38	0	0	0.0m	0.0
Blacksod Point	1039.8	+7	NW	2	0	1040.8	-1	45	+10	NNE	1	-	0	1	-	46	32	0	0	0	*
Roche's Point...	1042.3	45	N	1	0	1039.4	0	43	+4	N	2	-	0	2	0.1	45	35	0	0	b.0	*
Birr Castle ...	1040.4	43	N	2	0	1039.7	*	42	+13	W	1	-	0	*	-	43	28	f.0	f.0	0	0.0
Donaghadee ...	1040.8	43	W	1	0	1039.7	-1	46	+6	N	2	-	cm	2	-	49	40	bcm	bcm	bcmg	*
Liverpool (Bidston)	1038.7	47	NNE	3	cm	1037.5	-1	41	+5	NW	1	N	0	1	-	43	36	b.	bc.o	0m	4.7
Holyhead ...	1037.5	41	NNW	1	0	1037.8	-1	43	+6	N	3	-	3	1	-	48	35	bc.c	c.0	0.8w	0.6
Pembroke (St. Ann's Head)	1037.8	46	NNE	4	og	1037.0	0	41	+4	N	1	-	0	2	-	45	37	b	b	c.0	5.8
Scilly (St. Mary's)	1037.5	42	NE	1	bc	1035.8	0	42	+2	ENE	1	-	3f	3	-	43	39	bcc.	c	8m	1.1
Jersey (St. Aubin)	1035.9	42	ENE	2	c	1032.3	0	33	-7	NE	2	-	0	2	-	43	33	0c0	0bc.0	0.8mx0	1.8
Portland Bill ...	1032.6	41	NE	4	0	1033.3	-2	39	+1	N	4	N	0m	4	-	44	34	bc.c	c	0.0m	*
Dungeness ...	1034.2	39	ENE	5	c	1030.5	-2	41	+3	N	3	NE	c	3	-	41	36	c	c.bc	bc.c	*
Wick	1033.2	41	E	4	bc	1034.2	-1	44	-1	-	0	-	0m	1	1	48	40	0mpd	0mpd	0md.bc	*
Nairn	1035.4	46	NW	3	0md	1036.8	*	42	-2	-	0	-	c	1	0.2	49	42	cg	cg	cgp	0.0
Leith	1037.5	46	-	0	c	1036.0	0	38	+6	SW	1	-	0	1	-	46	35	0.c.bc	bc.c.0.c	cm.bm	*
Tynemouth ...	1036.6	44	W	1	c	1035.0	0	43	+6	N	3	-	01f	3	TRACE	45	33	0m	0m	0mpd.0m	*
Spurn Head ...	1035.7	42	WNW	5	02f	1033.3	0	43	+1	N	5	-	0	3	-	43	36	cg	0m	0m.0	*
Yarmouth (Gorleston)	1035.1	42	NW	3	0m	1031.0	0	42	+2	NE	5	-	0f	3	1	43	39	cgbcv	bcv.cm	0md.bc	3.0
Clacton-on-Sea.	1033.5	41	N	2	c	1031.6	0	41	+3	NW	3	-	0gm	1	-	42	34	cg.c	c	c.B.0gm	0.1
Nottingham ...	1034.2	40	NE	2	c	1034.7	*	43	+5	N	3	N	0m	8	-	44	34	0.cm	0m	0.8m	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

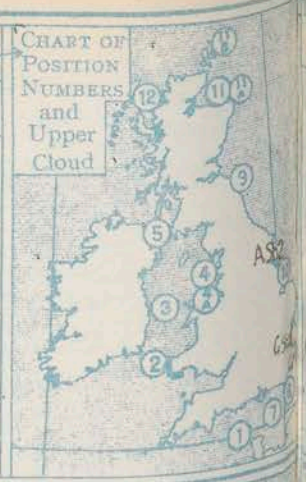
M.O FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 12.2.1921.

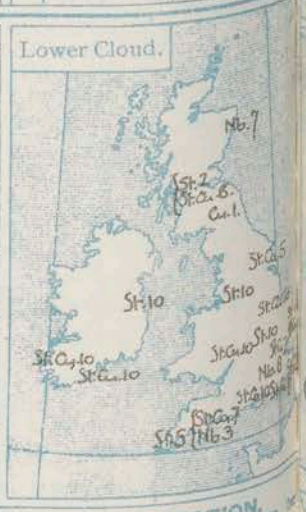
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudy or dull, misty.	Poor	Slight
2. E. England	Dull, local mist & light rain.	Fair	"
3. E. Midlands	Cloudy or dull, misty.	Poor	-
4. W. Midlands	Dull, misty.	Indiff.	-
5. S.W. England	Variable sky, local mist & rain.	Fair	Slight
6. South Wales	Dull, local mist inland.	"	Smooth
7. North Wales	Variable sky.	"	"
8. N.W. England	Dull, local mist.	"	"
9. N. Midlands	Mainly dull, local mist.	Indiff.	-
10. N.E. England	Dull, local mist.	Fair	Slight
11. E. Scotland	Cloudy or dull, local light rain.	"	"
12. S.W. Scotland	Variable sky, local fog.	Var.	Smooth
13. Isle of Man	Cloudy, misty.	Fair	"
14. N.&N.W. Scotland	Dull, local mist or fog.	Poor	"
15. Hebrides	Dull.	Fair	"
16. Orkneys and Shetlands	Dull, local drizzle.	Indiff.	"
17. N.W. Ireland	Dull.	Fair	"
18. N.E. Ireland	Cloudy or dull, local mist.	"	"
19. S.E. Ireland	Dull, local mist.	"	"
20. S.W. Ireland	Dull.	Good	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
1	11th	0815	47	45
3	11th	1010	48	46
1	11th	1210	48	40
6	11th	1500	47	39
2	12th	0200	49	47
7	12th	0305	49	47



Barometric change from 4 h. to 7 h. (half millibars).

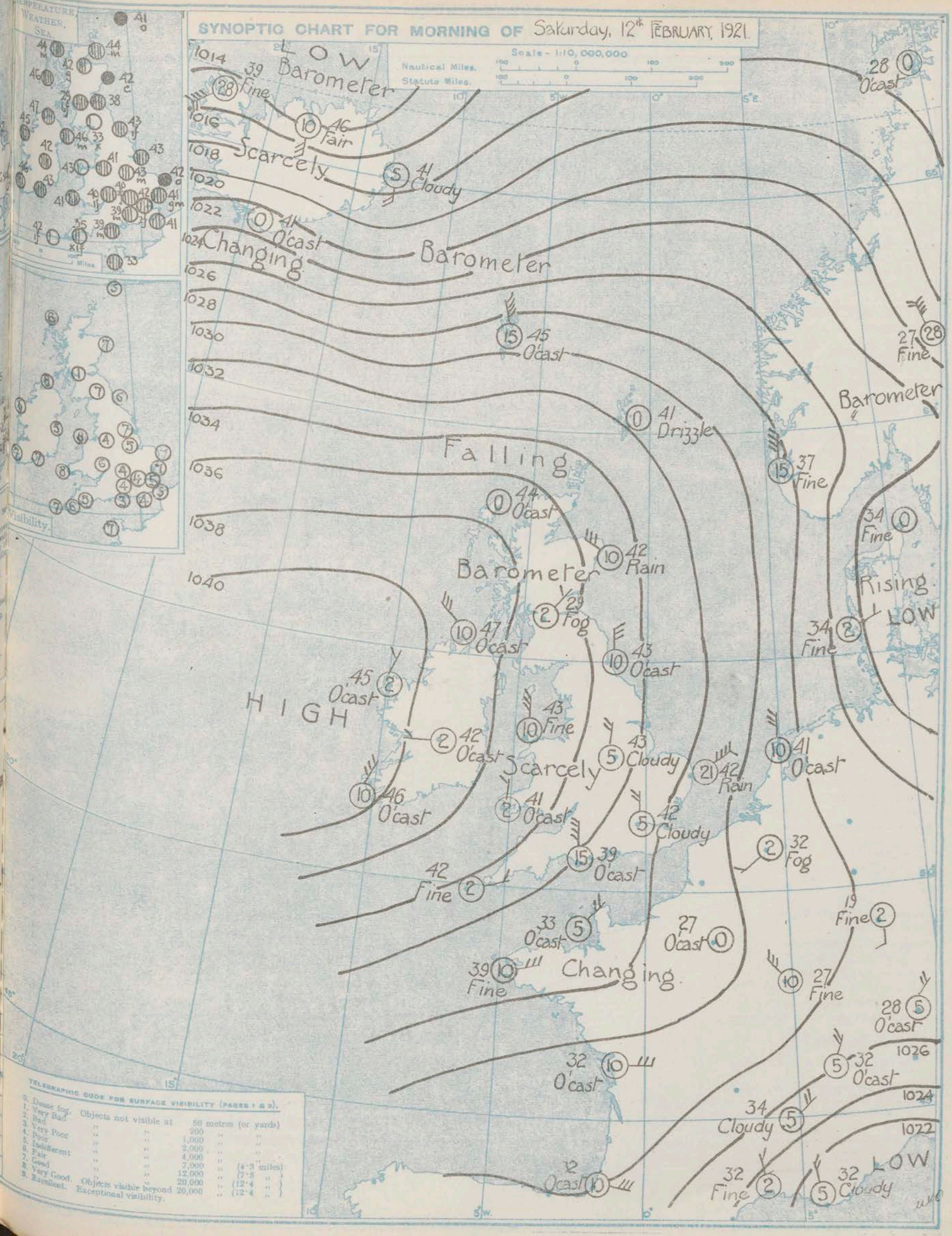


EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. K thunderstorm.
SEA DISTURBANCE.— Rough High

GENERAL INFERENCE from observations received up to 9h.

It appears probable that secondary depressions moving in a Southerly direction down the North Sea will cause some showers in most parts of Great Britain but in the Western parts of the Kingdom the weather is likely to be dry, with much cloud. Temperature will undergo little change.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday, 12th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind mainly Northerly, light or moderate, stronger in places; mainly cloudy or overcast, some local showers, visibility mainly fair; moderate temperature.	Wind mainly between N. and N.W. with a moderate temperature, generally dull weather, and some showers in the Northern and Eastern districts.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between N.W. and N.E., light or moderate; much cloud generally but fairer intervals; visibility fair; moderate temperature.	
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	Wind between N.W. and N., light or moderate, stronger locally; mainly overcast, some showers, visibility fair; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind light or moderate, from between N.W. and N.E.; much cloud generally, some fairer intervals, visibility fair; moderate temperature.	


SYNOPTIC CHART FOR MORNING OF Saturday, 12th FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer
Scarcely
Changing
Barometer
Falling
Barometer
HIGH
Scarcely
Changing
Rising
LOW
Barometer
LOW
TEMPERATURE
WEATHER.
SEA
Visibility
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 43.

Saturday 12th FEBRUARY

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 10th-11th	Rainfall. Day. 9h-18h. 11th	Sunshine. Sunrise to Sunset. 11th
Scotland.	Banff	ocbc	cdo	48	34	-	0.1	0.7
England, N.E.	Harrogate	b.bc	bc.co	44	32	-	-	1.6
	Skegness	cbc	bco	45	40	-	-	2.2
England, E.	Lowestoft	omq	q	42	36	1	-	0.7
	Felixstowe	oc	oc	42	35	0.4	-	0.2
England, S.E.	Tunbridge Wells	o	ococ	42	34	-	-	0.1
	Margate	o	o	42	37	-	-	0.1
	Ramsgate	*	*	41	36	1	-	0.0
	Folkestone	o	co	40	35	-	-	0.2
	Hastings	o	o	41	35	1	-	0.0
	Eastbourne	o	oc	41	36	1	-	0.1
	Brighton	o	oc	43	37	-	-	0.1
	Worthing	oc	c	42	36	-	-	0.8
	Portsmouth (S'thsea)	*	*	44	35	-	-	0.5
	Bournemouth	*	*	41	33	-	-	0.7
England, N.W.	Blackpool	cb	co	44	31	-	-	4.2
	Southport	xcbcb	b.bcco	42	28	-	-	4.2
Midlands.	Leamington Spa	cb	cbm	42	34	-	-	0.6
	Bath	o	ocbc	43	33	-	-	1.3
Wales.	Rhyl	xcbc	bcc	44	30	-	-	4.3
	Colwyn Bay	*	*	45	32	-	-	4.1
	Llandudno	ocb	bcco	45	28	-	-	4.0
	Aberystwyth	bc	b.bc	45	31	-	-	6.0
England, S.W.	Weymouth	c	cbcc	42	34	-	-	0.2
	Torquay	c	c	42	37	-	-	0.0
	Paignton	omo	oco	42	35	-	-	0.0
	Penzance	bcc	cbc	44	36	-	-	3.4
	Bude	c	c	44	36	-	-	2.2
	Ilfracombe	o	o.cbcc	43	41	-	-	3.8

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 11th	Weather. 13h-18h 11th	Weather. 18h 11th-1h 12th	Weather. 1h-7h 12th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. Day. 7h-18h mm.	Rainfall. Night. 18h-7h mm.	Sun. Hours.
Renfrew	0f5fx02f	01f.	01f.32fx.	3f.b.06-8f	49	39	21	-	-	1.6
Eskdalemuir	co	bc.c.o	b.bc.co	c.o.bc.c.b.bc	44	21	25	-	-	1.1
Valencia (Cahire'n)	b.bc	b.bc	b.bc.bc.c	c.o	46	30	33	-	-	8.0
Baldonnel	o1f	co1f	01	02f	44	36	36	-	-	0.0
Manchester (Alex. Pk)	cobcco3f	o2f co3f o3f	03f	0 02f	45	32	30	-	-	*
Ross on Wye	o2fco2fo	o2f o2f	02f. 03f	p 01f	42	34	31	-	TRACE	0.3
Falmouth	bcco1f.	co2f	c.01f.b	r.b.bc	42	34	24	-	-	0.2
Calshot (Hants)	—co1f	co1f	01f c1f b2	02fco2f.03f	43	36	34	-	-	0.4
Lympne (Folkestone)	co1f	o1fco	c.b.bc.c.b.c.bcco1f. 3f		40	34	32	-	0.3	0.1
Aberdeen	3fe2fco1fo	co1	bq	r	49	39	39	0.2	1	0.0
Howden	o o2f	p o	c.opd	co1f	46	35	29	trace	-	0.2
Cranwell (Lincs)	p o	2f.o	2.o.o	bd.f.c.o	41	34	33	-	TRACE	0.0
Felixstowe	o1f.c.	o.co.	pr	p.o	42	35	34	-	0.3	0.6
Shoeburyness	o	o.co.	c.o.o	o1fc	42	35	31	-	TRACE	0.1
Benson	o	o	o. bc.c	o.02f	44	33	31	-	0.2	*
S. Farnborough	bcco1f	co.	02f	c.01	41	35	32	-	0.4	0.1
London (Kew Obsy.)	o1fpcco2f	2f. o2f	02f	p.c.o2f	43	38	34	-	0.3	0.1
Croydon	o2fo3fo o3f	o2fo3fo o3f	o3f.o2fro3f	o2frr o3f	41	36	32	-	1	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ⌅ Lunar halo ☾ Glazed frost ⌁ Solar corona ☉ Glazed roads ⚭ Lunar corona ☾ Line Squall ⚡ Snow lying ▦

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. 12th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	-	-	-	43	39	33	0.3	0.0	71	79
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	44	40	35	0.2	0.0	74	78
Regent's Pk (Botanical Gdns)	*	*	*	*	*	*	*	0.6	*	*
Camden Sq. (British Rainfall)	bc.bc	bc	*	43	39	34	0.3	*	69	78
Kensington Palace	occ	c	*	43	34	36	0.2	*	72 (18h)	81
Hampstead Observatory	*	*	*					0.4	*	

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total 212 Joules.

Milliwatts.
Average Rate. 6.1
Maximum Rate. 15

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

12th AND 13th FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.18 / 7.16	12.7 / 12.7	4.56 / 4.58
Greenwich	7.22 / 7.20	12.14 / 12.14	5.6 / 5.8
Wick	7.54 / 7.52	12.26 / 12.26	4.57 / 5.0
Valencia	8.4 / 8.2	12.55 / 12.55	5.46 / 5.48

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 11th 18 h. 0 m. to 12th 6 h. 30 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	13	30	-	50	7
δ Ursae Minoris	13	30	-	8	1

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 45° or higher in most parts of Ireland and Scotland but was lower over the greater part of England. Slight rain fell in various Eastern and Northern localities and little or no bright sunshine was recorded except at some Western stations. In Wales the duration ranged from 4 to 6 hours.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. LONDON:

BRITISH SECTION. No. B.21633 Sunday, 13th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H.

STATIONS.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 12th														13H. G.M.T. of 12th													
Renfrew	1031.1	-2	-	0	04f	39	97	2	3,000	St	10	-	-	*	1034.1	-2	WSW	2	c	44	85	7	4,200	StCu	7	Ci	1	*
Eskdalem ...	1036.7	0	-	0	0	47	85	7	4,000	StCu	10	-	-	*	1035.3	-1	WNW	1	0	40	85	7	-	StCu	10	-	-	*
Valencia (Cahire'n)	1040.5	0	NNE	3	0	47	75	8	3,000	StCu	10	-	-	3	1039.4	0	NNE	3	0	45	75	8	2,000	StCu	8	A.St	2	3
Baldonnel ..	1038.6	-1	N	2	01f	47	75	7	3,000	StCu	10	-	-	*	1037.3	-2	NW	1	01f	45	75	7	4,200	StCu	10	-	-	*
Manchester (Ringway)	1036.5	0	NNE	3	02f	46	75	4	1,250	St	10	-	-	*	1035.5	-1	WSW	1	03f	45	75	3	1,250	St	10	-	-	*
Ross on Wye ...	1035.2	-1	NNE	3	0	47	65	7	3,000	StCu	10	-	-	*	1034.5	0	NNE	1	02f	43	85	3	1250	St	10	-	-	*
Falmouth	1036.2	0	NNE	2	01f	48	65	6	-	StCu	2	ACu	7	*	1034.3	-1	NNE	3	b4	43	85	5	-	StCu	1	ACu	1	*
Caishot (Hants) ...	1034.3	0	NNE	3	01f	45	75	6	4,200	StCu	10	-	-	1	1034.0	+1	NNE	3	0	43	75	8	4,200	StCu	10	-	-	2
Lympne (Folkestone)	1032.2	0	NNE	5	c4	47	85	8	2,000	C	8	-	-	*	1032.5	0	NE	5	c	40	85	7	1250	StCu	7	-	-	*
Aberdeen	1034.6	-1	NW	3	bc	48	65	8	4,200	StCu	6	-	-	2	1032.7	-1	WNW	3	0r	50	85	7	2,000	StCu	10	-	-	2
Howden	1035.4	-1	N	3	0	45	75	7	3,000	StCu	8	A.St	1	*	1034.5	-1	N	1	0	43	85	8	3,000	St	10	-	-	*
Cranwell (Lincs) ...	1035.0	0	NE	3	0	44	75	8	3,000	StCu	10	-	-	*	1034.7	0	N	1	0	42	92	6	3,000	StCu	8	A St	1	*
Felixstowe ...	1033.2	-1	N	4	c	45	85	7	7,200	StCu	9	-	-	2	1033.6	+1	N	2	01f	41	85	6	3,000	StCu	10	-	-	1
Shoeburyness ...	1033.2	0	NE	5	bc	45	75	7	4,200	StCu	4	-	-	*	1033.2	0	NNE	4	0	41	75	7	3,000	St	10	-	-	*
Benson	1034.6	0	NNE	3	0	43	75	6	-	St	10	-	-	*	1034.1	0	NNE	3	0	42	75	6	-	St	10	-	-	*
S. Farnborough	1033.9	0	NE	3	c	44	75	7	3,000	StCu	5	ACu	3	*	1033.7	+1	N	2	0	41	75	5	2,000	StCu	10	-	-	*
London (Kew Obsy.)	1034.2	-1	NNE	4	02f	44	75	5	3,400	StCu	10	-	-	*	1033.9	+1	N	3	02f	43	75	5	2,000	StCu	10	-	-	*
Croydon	1034.0	0	NNE	4	02f	43	75	4	750	St	10	-	-	*	1033.4	+1	N	4	02f	42	75	4	3,000	StCu	10	-	-	*
	1H. G.M.T. of 13th														7H. G.M.T. of 13th													
Renfrew ...	1032.2	-3	WSW	3	bc	42	92	7	3000	SrCu	5	-	-	*	1028.9	-3	SSW	2	01f	45	85	7	2000	SrCu	10	-	-	*
Eskdalemuir ...	1032.3	-3	NW	2	0	41	85	6	-	SrCu	9	-	-	*	1029.1	-3	WNW	4	0	42	85	6	3000	SrCu	9	-	-	*
Valencia (Cahire'n)	1039.1	-2	NNE	2	0	43	*	*	*	*	*	*	*	2	1038.5	-1	NE	1	0	44	75	7	4000	St	10	-	-	*
Baldonnel ...	1036.8	-1	W	2	bc2f	42	92	5	2000	SrCu	4	-	-	*	1034.7	-4	S	2	02f	40	85	5	750	SrCu	10	-	-	*
Manchester (Ringway)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.6	-2	W	2	0d3f	41	97	3	1250	Nb	10	-	-	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.1	-2	NW	1	02f	40	92	5	2000	St	10	-	-	*
Falmouth ...	1034.7	-1	NNE	2	02f	43	85	5	-	St	10	-	-	*	1032.8	-1	NNE	1	01f	41	85	6	-	St	10	-	-	*
Caishot (Hants) ...	1034.2	-1	N	3	0	41	75	8	3000	SrCu	10	-	-	2	1032.6	-1	NNE	3	0	40	75	8	2000	SrCu	10	-	-	2
Lympne (Folkestone)	1032.6	0	NNE	2	b	35	97	7	1250	St	1	-	-	*	1031.0	-2	NNE	2	01f	36	92	7	1250	St	10	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.4	-4	SSW	2	bc	42	75	8	3000	SrCu	6	-	-	2
Howden ...	1033.1	-2	-	0	0	40	97	5	2000	St	10	-	-	*	1030.1	-1	WSW	2	01f	41	85	7	2000	St	6	A St	4	*
Cranwell (Lincs)	1033.1	-2	W	1	01f	39	97	6	3000	St	10	-	-	*	1030.6	-3	W	1	02f	39	92	5	4200	SrCu	10	-	-	*
Felixstowe ..	1033.7	0	N	2	01f	40	85	6	2000	St	10	-	-	0	1031.4	-1	NW	2	0	39	92	7	3000	St	10	-	-	0
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.3	-1	NNW	1	0	39	85	7	3000	St	10	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.1	-1	NE	1	0	36	92	4	-	St	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.0	-1	NW	1	0	38	85	6	2000	SrCu	10	-	-	*
London (M.O. at 1H.)	1033.3	0	*	*	*	40	*	*	*	*	*	*	*	*	1031.8	-1	-	0	02f	40	85	5	2000	SrCu	9	A St	1	*
Croydon ...	1033.9	-2	NNE	3	01f	40	75	6	2000	SrCu	10	-	-	*	1032.1	-1	NNW	1	01f	39	85	6	750	St	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 16H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 2 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 12th					7H. G.M.T. of 13th									24 HOURS ENDED 7H. 13th						12th
Lerwick	1023.7	47	W	5	c	1014.4	-5	47	+6	WNW	5	-	cq	4	1	48	40	c	c	omrq	*
Stornoway ...	1032.9	45	W	3	0	1024.1	-3	48	+4	WNW	4	-	or.q	3	3	48	44	op	copo	op.odq	3.0
Castlebay (Barra Is)	1039.3	47	W	2	c	1029.2	-3	49	+3	W	5	-	odp	4	trace	49	45	oc	edpc	obcdp	3.5
Malin Head ...	1036.5	45	NW	2	0	1031.1	-1	47	0	W	2	-	01f	3	4	48	44	o	omp	omp	0.0
Blacksod Point	1038.8	44	-	0	c	1034.8	-2	45	0	-	0	-	o	1	-	47	42	o	o	o	*
Roche's Point...	1037.5	46	N	2	0	1035.9	-2	43	0	N	2	-	o	1	-	49	42	o	o	o	*
Birr Castle ...	1038.5	45	NW	1	0	1035.7	*	35	-7	S	1	-	o	*	-	46	35	o	o	o	0.0
Donaghadee ...	1036.0	46	N	1	cm	1031.6	-2	43	-3	W	2	-	c	1	0.4	48	42	cm	bcmp	bcm	*
Liverpool (Bidston)	1035.7	42	NW	1	0	1031.6	-3	43	+2	WNW	3	-	o	2	0.2	46	39	c	o	op	1.9
Holyhead ...	1035.9	45	N	3	og	1032.6	-1	45	+2	NNW	4	-	or.	3	0.4	51	42	b.bc.c.b.	b.bc c.o	opd.pr	3.5
Pembroke (St. Ann's Head)	1036.0	45	N	1	o	1033.7	-1	43	+2	N	1	-	od.	2	0.3	50	41	c	c.o	o.od	3.9
Scilly (St. Mary's)	1035.4	47	NNE	2	c	1033.1	-1	45	+3	-	0	-	01f	3	-	49	44	om.c	c	co.o	1.4
Jersey (St. Aubin)	1031.8	44	NE	3	o	1031.0	0	41	+9	E	2	-	o	2	0.1	48	33	opd.co	o.c.o	o	0.2
Portland Bill ...	1033.4	44	NE	5	o	1032.6	-2	42	+3	NE	3	NE	o	4	-	47	35	m.o	o	o	*
Dungeness ...	1031.7	42	NE	4	c	1030.9	-1	39	-2	NNE	1	-	c	2	-	45	36	c.bc	bc.c	bc.bcc	*
Wick	1029.9	42	WNW	1	bc	1020.5	-5	48	+4	WNW	2	-	o	2	-	48	40	om.bc	bc	bc.o	*
Nairn	1032.3	45	W	1	c	1023.9	*	46	+4	SW	1	-	cg	1	-	48	42	cg	cg	cg	0.0
Leith	1033.4	44	W	1	m	1027.2	-1	42	+4	W	1	-	b	1	-	46	38	oco	om.o	mocb	*
Tynemouth ...	1034.4	45	W	1	03f	1028.3	-3	43	0	W	2	-	01f	3	-	46	41	cm	om	om	*
Spurn Head ...	1033.1	43	N	4	o	1029.7	-2	42	-1	WNW	4	-	fc	2	-	45	36	o	o	o.omf	*
Yarmouth (Nov. Obsy.)	1032.9	41	NNE	3	o	1029.9	-2	39	-3	WNW	2	-	o.fc	1	0.4	44	39	opq	o.c.ov	ov	0.0
Clacton-on Sea	1033.1	43	N	3	o	1031.2	-1	39	-2	NW	2	-	o	1	-	45	38	ogbcc	c.og	og.o	2.5
Nottingham ...	1035.0	43	NE	1	o	1031.0	*	41	-2	W	1	-	om	4	-	46	39	c.o	c.om	oc	0.1

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

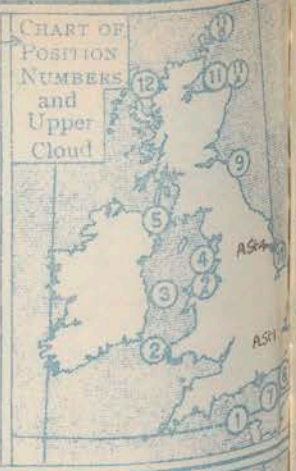
M.O FORM 2370

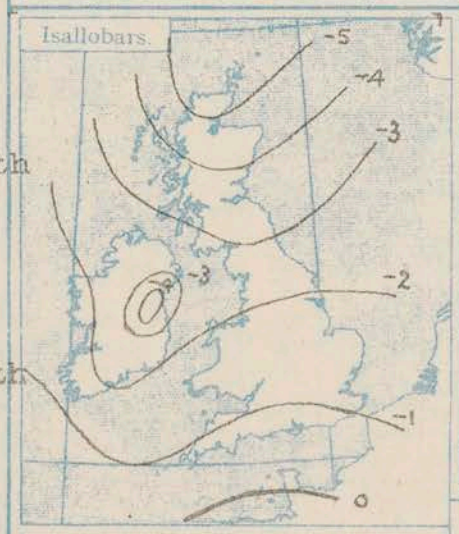
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 13.2.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, misty.	Fair	Smooth
2. E. England	Dull, misty.	Good	V.Smooth
3. E. Midlands	Dull, misty.	Indiff.	-
4. W. Midlands	Dull, drizzle, light fog.	V.Poor	-
5. S.W. England	Dull, misty.	Fair	Slight
6. South Wales	Dull, drizzle.	V.Good	Smooth
7. North Wales	Showery.	Good	Slight
8. N.W. England	Dull, drizzle.	Poor	Smooth
9. N. Midlands	Dull, misty.	Indiff.	-
10. N.E. England	Dull, misty.	Fair	Smooth
11. E. Scotland	Fair to dull.	V.Good	"
12. S.W. Scotland	Dull.	Fair	V.Smooth
13. Isle of Man	Misty.	Indiff.	"
14. N.& N.W. Scotland	Dull, gloomy.	"	"
15. Hebrides	Dull, drizzle in North.	Poor	Slight
16. Orkneys and Shetlands	Cloudy, squally.	Fair	Mod.
17. N.W. Ireland	Dull.	"	V.Smooth
18. N.E. Ireland	Dull, misty.	"	"
19. S.E. Ireland	Dull.	Good	"
20. S.W. Ireland	Dull.	"	-

Temperature reported from Coastal and Cross Channel Steamers

Position Number	Date	Time G.M.T	Sea °F	Air °F
12	12th	0420	47	48
5	12th	0815	47	45
3	12th	0955	48	47
7	13th	0355	48	43
8	13th	0429	45	43
4A	13th	0610	46	47





Barometric change from 4 h. to 7 h. (half millibars).

EXPLANATION.
BAROMETER.—Isobars are drawn at 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 degrees F.
WEATHER SYMBOLS.—
clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough. High.

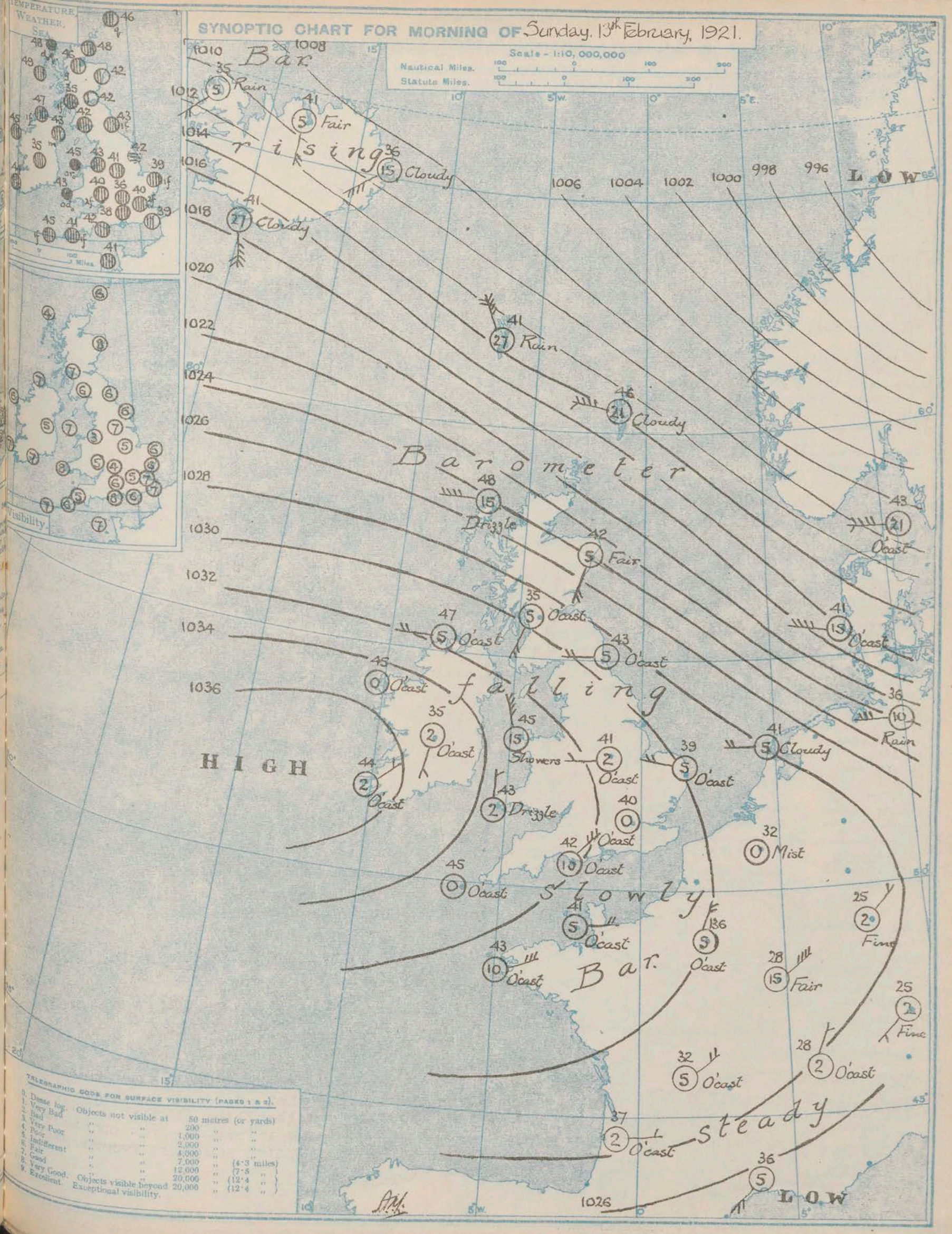
GENERAL INFERENCE from observations received up to 9h.

The anticyclone is moving South-Westward and a Westerly wind current is spreading from the North. Weather will remain cloudy with local showers or rain and a moderate temperature.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday, 13th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind light N. to N.W.; dull, some showers, visibility fair but some local mist; moderate temperature.	Winds becoming more Westerly; much cloud and local rain or showers.
5. S.W. England 6. South Wales	Wind light Northerly; dull, some showers, visibility fair; moderate temperature.	
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 W. to N.W., moderate; cloudy or dull, some showers, visibility fair; temperature moderate to rather mild.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind W. to N.W., moderate or fresh, strong in places; cloudy or dull, some rain or showers, visibility fair to good; mild.	
17. N.W. Ireland 18. N.E. Ireland	As for 7 - 13.	
19. S.E. Ireland 20. S.W. Ireland	As for 5 - 6	

E.S.6.

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


SYNOPTIC CHART FOR MORNING OF Sunday, 13th February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Temperature, Weather, Sea
Visibility
Bar. rising
Barometer falling slowly
Bar. steady
HIGH
LOW
LOW
1010
1008
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
1036
1006
1004
1002
1000
998
996
1026
Rain
Fair
Cloudy
Cloudy
Rain
Cloudy
Drizzle
Fair
O'cast
O'cast
O'cast
O'cast
O'cast
O'cast
Showers
O'cast
O'cast
Drizzle
O'cast
O'cast
O'cast
O'cast
O'cast
O'cast
Cloudy
Rain
Mist
Fair
Fine
Fair
Fine
O'cast
O'cast
O'cast
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad. " " 200 " "
2. Bad. " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

M.O. FORM 2370

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No 44...

Sunday 13th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 11th-12th	Rainfall. Day. 9h-18h. 12th	Sunshine. Sunrise to Sunset. 12th
Scotland.	Banff	o	oc	48	43	2	-	0.0
England, N.E.	Harrogate	o	o	44	40	-	-	0.0
	Skegness	o	o	44	40	-	-	0.0
England, E.	Lowestoft	o p.c	c b g = o	44	37	1	-	1.2
	Felixstowe	c p	c m	46	36	4	-	2.3
	Southend-on-Sea	o p.c	c o	45	36	0.4	0.1	0.7
England, S.E.	Tunbridge Wells	o	o.c o	47	34	1	-	0.5
	Margate	c bc	c o	42	37	1	-	2.2
	Ramsgate	*	*	43	38	1	-	2.6
	Folkestone	o p o	p.c.o	45	37	1	0.3	2.4
	Hastings	o p.c	c o	45	36	-	0.2	1.8
	Eastbourne	o.c	c.o	45	36	0.1	-	1.2
	Brighton	bc	bc	46	42	-	-	1.4
	Worthing	o c	c	46	35	-	-	1.2
	Portsmouth (S'thsea)	*	*	46	36	-	-	0.5
	Bournemouth	*	*	45	36	-	-	1.4
England, N.W.	Blackpool	bc	o	47	33	-	-	3.0
	Southport	b.bc.c o	o	47	38	-	-	3.2
Midlands.	Leamington Spa							
	Bath	o	c c bc	45	34	-	-	0.1
Wales.	Rhyl	bc c	c	45	32	0.2	-	1.2
	Colwyn Bay	*	o	47	36	-	-	1.4
	Llandudno	o. o b.	c	48	33	-	-	1.6
	Aberystwyth	?	?	46	34	-	-	1.0
England, S.W.	Weymouth	c	c	47	36	-	-	1.3
	Torquay	o cm	o cm	47	36	0.1	-	0.4
	Paignton	c.o	c.o	48	35	0.3	-	0.5
	Penzance	c	bc.c b	49	36	-	-	0.6
	Bude	o c bc	c bc c	49	29	-	-	2.0
	Ilfracombe	?	o c2	48	38	-	-	1.2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 12th	Weather. 13h-18h 12th	Weather. 18h-1h 12th-13th	Weather. 1h-7h 13th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
Renfrew	o c.s f x o.1 f	o f-5 f o2 f c x	co bcc	bcc if co if	46	29	35	-	-	0.0
Eskdalemuir	o	o	o	o	43	33	35	-	-	0.3
Valencia (Cahire'ty)	o.f. o	o	o	o	49	42	40	-	-	0.9
Baldonnel	o. o1f	o1f	co p. o 2f	o2f r.	48	39	33	-	c2	0.0
Manchester (Alex. Pk)	pd o2f o1f	o2f o2f	o3f	o3f f d	48	40	34	-	-	*
Ross on Wye	g f c o1f	o o2f	o 3f	o3f o2f	47	39	37	-	-	0.2
Falmouth	co 1f	c o2f bbc2f	bbc o 2f o2f	o1f o2f	49	34	32	-	-	1.3
Calshot (Hants)	o2f o2f o1f	o1f o	o	o	45	39	41	-	-	0.4
Lympne (Folkestone)	o1f r. c o b	c o2f r. 1f	r. co. f bbc	bbc o1f	43	34	33	0.2	0.1	2.7
Aberdeen	o1f bcc	bc o p.	o1f bc	1f bcc	50	41	34	-	-	1.1
Howden	c.o	c.o	o o1f	1fc o1f	47	39	35	-	-	1.7
Cranwell (Lincs)	o	o	bcc o	o2f o	44	34	30	-	-	0.2
Felixstowe	c o p.	co1f	o1f.o	o1f o	46	39	39	-	-	2.7
Shoeburyness	1fc pd.	b o.	o	o	45	35	36	0.1	-	1.0
Benson	o bo	o	o	o	43	36	35	-	-	*
S. Farnborough	co	c.o	o	o	45	37	36	-	-	0.4
London (Kew Obsy.)	2f co p. o2f	o2f co	o2f co	o2f co	45	39	36	-	trace	0.6
Croydon	o3f r o2f r.	o2f r. co o2f	o2f o1f	o1f o	44	38	36	0.2	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist o overcast sky.
p passing showers.
q squalls. r rain.
ts sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·4
1	1- 3	0·4- 1·6
2	4- 7	1·6- 3·4
3	8-12	3·4- 5·4
4	13-18	5·4- 8·0
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-32·6
12	Above 75	32·6 or above

SYMBOLS — Aurora, Glazed frost, Glazed roads, Line Squall, Rime, Solar halo, Lunar halo, Solar corona, Lunar corona, Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. ...13th...							Yesterday.		To-day.
Greenwich (Royal Observatory)	o f	c	c	46	39	37	-	1.3	72	83
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*								
Regents Pk (Botanical Gdns)	*	*	*	*	*	*	+	0.6	*	*
Camden Sq. (British Rainfall)	c bc	bcc	*	47	39	36	-	*	76	82
Kensington Palace	o	bc.o.c	*	48	35	37	-	*	80 (18h)	82
Hampstead Observatory	*	*	*	43	37	35	Trace	0.8	*	85

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

13th, 14th February, 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.16	12.7	4.58
	7.14	12.7	5.0
Greenwich	7.20	12.14	5.8
	7.18	12.14	5.10
Wick	7.52	12.26	5.0
	7.50	12.26	5.2
Valencia	8.2	12.35	5.50
	8.0	12.35	5.50

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

Star.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris			
δ Ursae Minoris			

NOTES ON THE WEATHER OF YESTERDAY.

Temperature was rather higher that of late, reaching 51° at Holyhead and 50° at Pembroke and Aberdeen. In most places night minima were well above freezing point. Weather continued dull, with slight local rain. The highest sunshine record was 3.9 hours at Pembroke.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21,634 Monday, 14th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
	13H. G.M.T. 13th														**18H. G.M.T. OF 13th**													
Renfrew	1025.6	-4	NW	4	od₀	50	85	6	2000	Nb	9	A.Cu	1	*	1022.8	-1	WNW	3	bc	46	85	7	2,000	St.Cu	5	A.St	1	-
Eskdalemuir	1023.8	-2	WNW	7	o	47	85	7	2000	Cu.N.	7	-	-	*	1023.2	-1	WNW	5	o	46	85	6	2,000	St	10	-	-	*
Valencia (Cahirc'n)	1035.4	-1	NNE	1	o	47	75	8	3000	St.Cu	7	A.St	3	2	1033.7	-1	N	1	o	46	85	8	2,000	St.Cu	8	A.St	2	2
Baldonnel	1032.9	-3	W	3	o	46	75	8	4200	St.Cu	10	-	-	*	1030.5	-2	WSW	4	oif	45	85	6	1,250	St.Cu	10	-	-	*
Manchester (Alex. Pk.)	1029.3	-2	WSW	3	o2f	46	85	4	1250	St.Cu	10	-	-	*	1027.2	-2	WNW	3	o3f	46	85	3	1250	St	10	-	-	*
Ross on Wye	1030.6	-2	WNW	2	ov	46	75	9	3000	St.Cu	10	-	-	*	1028.6	-2	WNW	2	ov	45	75	9	3,000	St.Cu	10	-	-	*
Falmouth	1031.8	-3	ENE	1	cif	48	75	6	-	St.Cu	8	-	-	*	1030.7	+1	N	3	cr₀	44	85	8	-	Cu.Nb	7	-	-	*
Calshot (Hants) *	1030.4	-3	SSW	2	oif	43	75	7	4200	St.Cu	10	-	-	1	1028.9	-1	WSW	3	o2f	42	85	5	3000	St.Cu	10	-	-	1
Lympne (Folkestone)	1029.5	-3	NW	2	of₀	42	85	8	1250	Nb	9	A.St	1	*	1027.0	0	W	3	oif	40	92	6	1,250	St	10	-	-	*
Aberdeen	1021.5	-2	NW	4	or₀	47	92	6	2000	Nb	10	-	-	2	1020.3	0	W	4	cr₀	45	76	7	2,000	St.Cu	7	-	-	2
Howden	1026.5	-4	WNW	5	c	48	75	6	3000	St	10	-	-	*	1024.2	-1	W	2	o	47	85	7	2,000	St.Cu	10	-	-	*
Cranwell (Lincs)	1027.8	-4	WSW	2	oif	45	92	4	4200	St	10	-	-	*	1025.7	-1	WNW	2	o2f	44	97	4	4,200	St.Cu	5	A.Cu	4	*
Felixstowe	1029.1	-3	WSW	2	oif	43	85	6	4200	St	10	-	-	1	1026.7	-3	SW	2	oif	43	97	6	2,000	St	10	-	-	1
Shoeburyness	1029.8	-3	NW	1	oif	42	75	7	2000	St	10	-	-	*	1027.1	-5	-	0	oif	42	75	5	2,000	St	10	-	-	*
Benson	1030.1	-3	W	2	o	43	75	5	-	St	10	-	-	*	1027.7	-1	W	1	o	43	85	4	-	St	10	-	-	*
S. Farnborough	1030.2	-2	W	2	oif	44	75	7	2000	St.Cu	10	-	-	*	1028.1	-1	W	1	o2f	43	85	5	2,000	St.Cu	10	-	-	*
London (Kew Obsy.)	1029.7	-5	WSW	2	o2f	44	75	4	4200	St	10	-	-	*	1027.8	-2	W	2	oif	44	85	4	-	St.Cu	10	-	-	*
Croydon	1030.4	-3	WNW	3	o2f	43	75	4	1250	St	10	-	-	*	1028.3	-1	W	2	o2f	43	75	5	2,000	St.Cu	10	-	-	*
	1H. G.M.T. OF 14th														**7H. G.M.T. OF 14th**													
Renfrew	1024.5	0	WSW	2	bc	43	85	7	3,000	St.Cu	5	-	-	*	1024.1	-1	WNW	4	c	42	85	7	3,000	St.Cu	8	-	-	*
Eskdalemuir	1022.1	-2	NW	8	c	42	75	7	3,000	St	7	-	-	*	1023.1	+2	NNW	5	bc	40	85	7	2,000	St.Cu	1	Ci.St	5	*
Valencia (Cahirc'n)	1035.4	-3	NNW	2	o	48	*	*	*	*	*	*	*	2	1032.4	0	-	0	o	48	92	7	1250	St	10	-	-	*
Baldonnel	1029.9	0	SW	4	o2f	46	92	5	1250	St.Cu	10	-	-	*	1029.0	-1	SW	1	oif	43	92	6	2,000	St.Cu	10	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.2	0	W	3	o2f	44	85	5	2,000	St.Cu	9	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.0	+1	-	0	ov	46	85	9	3,000	St.Cu	10	-	-	*
Falmouth	1030.6	-1	N	1	o	42	85	7	-	St	10	-	-	*	1029.6	0	NW	2	o	46	97	7	-	St.Cu	9	-	-	*
Calshot (Hants)	1027.5	-2	W	2	oif	43	85	6	3,000	St.Cu	10	-	-	1	1026.1	-1	SW	4	oif	43	92	6	3,000	St.Cu	4	A.St	6	2
Lympne (Folkestone)	1024.9	-2	W	2	oif	41	92	6	1,250	St	10	-	-	*	1023.8	-1	NW	3	bcif	40	92	6	2,000	St	5	Ci	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.8	+3	NW	3	op	41	85	8	2,000	Nb	9	-	-	2
Howden	1022.5	-1	NW	4	cif	44	92	5	3000	St	3	A.St	3	*	1022.9	+1	NW	3	bc	40	85	7	3,000	St	2	Ci.St	2	*
Cranwell (Lincs)	1023.4	-2	WNW	3	b	44	97	5	3,000	St.Cu	3	-	-	*	1023.9	0	WNW	1	bc	39	97	5	-	-	-	Ci.St	6	*
Felixstowe	1023.6	-2	W	3	bcif	42	92	6	3,000	St	4	-	-	0	1023.1	+1	NW	3	b2f	41	92	5	-	-	-	A.St	2	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.8	-1	W	1	bcif	41	85	7	5,700	St.Cu	2	A.St	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.5	-1	WNW	2	o	43	92	5	-	St.Cu	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.2	-1	WNW	2	o	44	92	6	1250	St.Cu	10	-	-	*
London (M.O. at 1H.)	1025.1	-1	*	*	*	45	*	*	*	*	*	*	*	*	1024.8	+1	W	2	o2f	44	92	4	2,000	St	8	A.St	2	*
Croydon	1026.1	-2	W	3	oif	44	85	6	1,250	St	10	-	-	*	1024.8	-1	W	3	cif	43	92	6	2,000	St	6	Ci.St	2	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	Barometer at M.S.L. mb.	‡ Change in 3 hours	Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	† Rainfall mm.	Max. °F.	Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
	18H. G.M.T. of 13th					**7H. G.M.T. of 14th**									**24 HOURS ENDED 7H. 14th**						**13th**
Lerwick	1011.2	44	WNW	6	cq	1016.1	+4	36	-11	NW	5	NW	c	4	3	48	35	oq	ompq	cmrlq	*
Stornoway	1022.4	46	WNW	1	c	1023.9	+1	42	-6	NW	1	-	c	1	1 (corrected from 2)	48	42	o.cpq.c	c	cp.c	0.7
Castlebay (Barra Is)	1025.2	47	W	4	op	1026.1	0	46	-3	NW	4	-	o	3	1	49	45	dp.cm	cm.op.	op.c.o	2.1
Malin Head	1026.8	48	WNW	3	oife	1026.9	0	46	-1	WNW	3	-	om	3	1	48	45	om	ome	omp.bcm	0.0
Blacksod Point	1031.3	50	WNW	3	o.	1030.1	-1	49	+4	W	2	-	o	2	-	51	49	o	o	o	*
Roche's Point	1033.0	46	NNW	2	o	1031.5	-1	47	+4	NW	3	-	o	1	-	49	43	o b bc	bc.o	o.b.o	*
Birr Castle	1031.4	45	WSW	1	o	1029.9	*	46	+11	SW	1	-	o	*	2	47	35	c.o.	o	or.o	0.1
Donaghadee	1026.9	49	NW	3	ogm	1026.8	+1	43	0	WNW	2	-	bcm	2	-	52	43	bcm	omq	bcm	*
Liverpool (Bidston)	1027.5	45	WNW	5	o	1027.4	+2	44	+1	WNW	4	W	c	4	1	46	42	og	og	o.c	0.2
Holyhead	1028.6	47	WNW	4	og	1027.0	0	46	+1	WNW	5	-	o	3	0.2	48	44	o.c	c.o	ocbcocpo	0.1
Pembroke (St. Ann's Head)	1031.1	46	NW	2	ov	1028.6	-1	47	+4	WNW	2	*	o	2	1	48	42	opd	ov	ov.o	0.2
Scilly (St. Mary's)	1031.6	45	NNE	2	o	1030.4	-1	47	+2	NW	2	NW	c	3	1	50	43	om.c.o	omp	ocpo.c	0.1
Jersey (St. Aubin)	1029.7	42	NE	3	o	1028.4	0	45	+4	W	2	-	o	1	-	45	40	o	o	o	0.0
Portland Bill	1029.8	43	N	2	o	1027.4	-2	44	+2	WNW	4	NW	o	4	-	48	39	o	o	o	*
Dungeness	1027.2	42	SW	2	c	1022.9	-1	42	+3	W	3	N	bc	3	-	46	38	cbc.	bc c	c.o.c.	*
Wick	1016.8	44	WNW	3	c	1019.4	+3	40	-8	NW	3	-	cq	3	6	48	38	opd	ocp	cpbccqp	*
Nairn	1020.6	45	W	2	c	1022.2	*	40	-6	W	1	-	bc	1	0.3	50	39	cpq	q.cq	cbc	1.1
Leith	1021.6	48	W	2	c	1022.7	+1	42	0	NW	2	NW	bc	2	-	52	40	b	bcc	c.o.cR.c	*
Tynemouth	1022.0	48	W	3	bc2f	1021.9	0	40	-3	WNW	3	-	bcif	2	-	50	40	bcm	bcm	om.bcm	*
Spurn Head	1023.1	45	WNW	3	cpm	1021.9	0	41	-1	WNW	5	-	bq	3	-	47	39	f	ogm	om.b	*
Yarmouth (Gt. Yarmouth)	1024.9	43	W	2	o	1021.5	+1	40	+1	NW	3	-	b	1	-	48	39	om	omqm	ombmomb	0.0
Clacton on Sea	1026.4	42	W	3	m	1022.9	0	42	+3	NW	3	-	bc	1	-	44	38	og.	ogm	ogm.bc	0.0
Nottingham	1026.0	46	NW	3	c	1024.3	*	44	+3	WNW	2	NE	c	*	-	48	41	o.cm	o.cm	c o	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p.4.

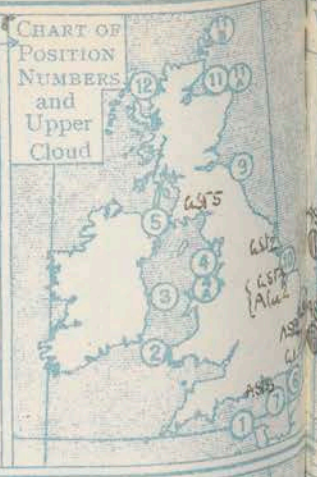
M.O FORM 2370

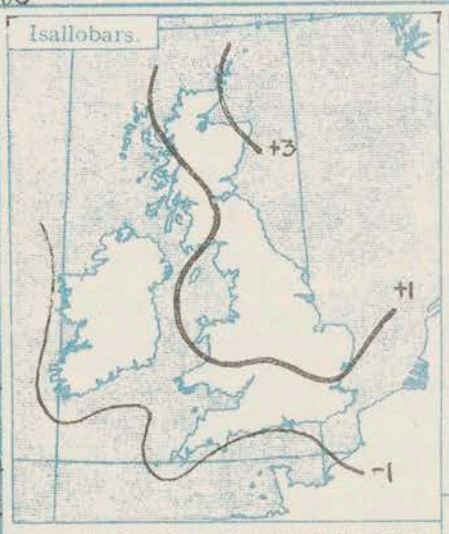
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 14.2.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to dull; misty	Fair	Slight
2. E. England	Fair	Indiff.	Smooth
3. E. Midlands	Dull, misty	Indiff.	--
4. W. Midlands	Dull	Fair	--
5. S.W. England	Dull	Good	Slight
6. South Wales	Dull	V.Good	Smooth
7. North Wales	Dull	Good	Slight
8. N.W. England	Dull	Fair	Moderate
9. N. Midlands	Dull	Indiff.	--
10. N.E. England	Fair	Good	Slight
11. E. Scotland	Fair	Good	Smooth
12. S.W. Scotland	Fair to cloudy	Good	Slight
13. Isle of Man	Dull	Good	Slight
14. N.&N.W. Scotland	Cloudy	Fair	Slight
15. Hebrides	Dull	Fair	Slight
16. Orkneys and Shetlands	Cloudy	Fair	Slight
17. N.W. Ireland	Dull	Indiff.	Smooth
18. N.E. Ireland	Fair to dull, misty	Fair	Slight
19. S.E. Ireland	Dull	Fair	Smooth
20. S.W. Ireland	Dull	Fair	Smooth

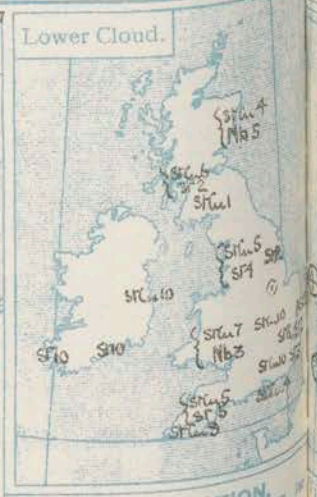
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
6	13th	1430	46	43





Barometric change from 4 h. to 7 h. (half millibars).



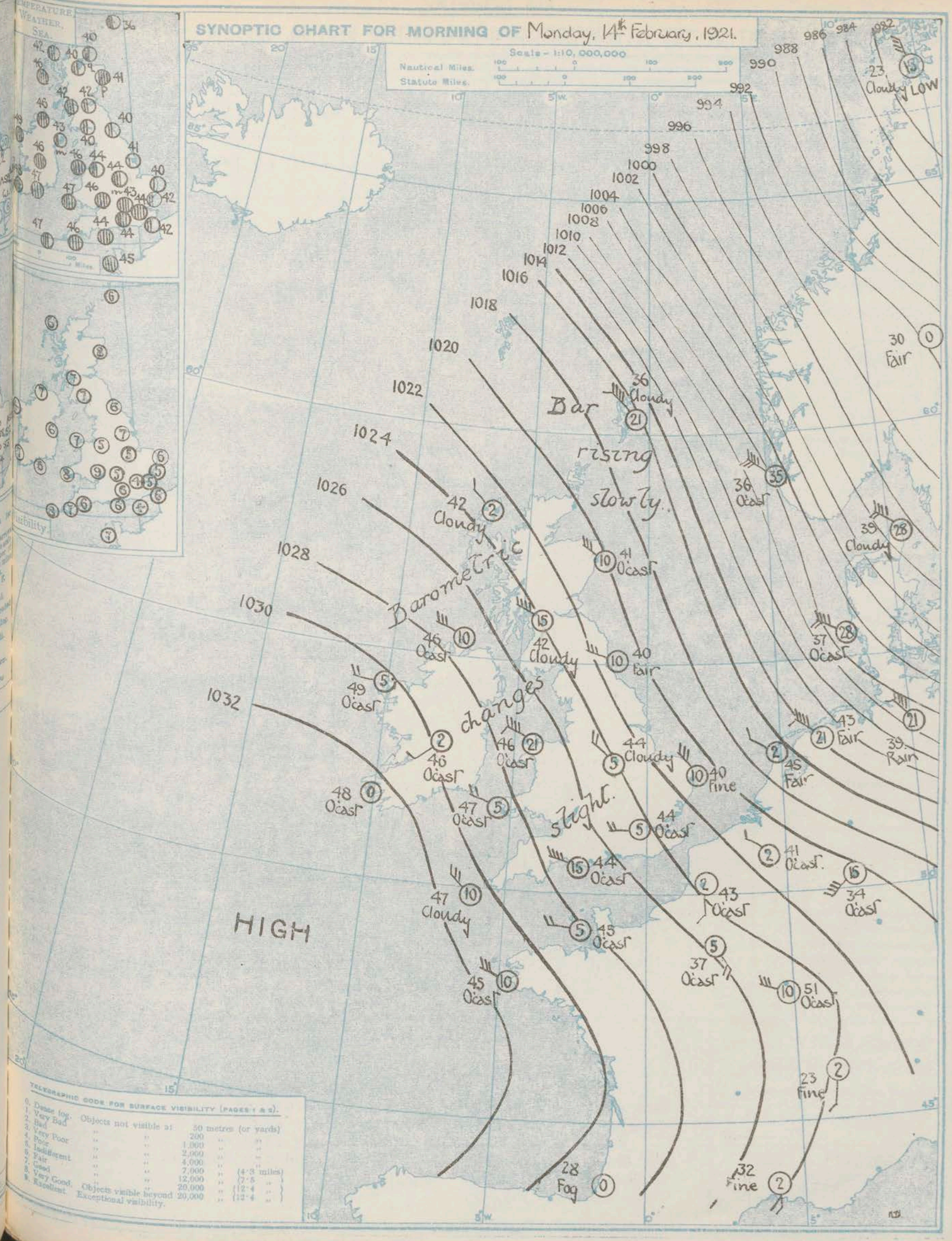
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

The distribution of pressure is undergoing little change and favours moderate N.W. winds generally and fair to dull weather with local showers.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday 14th February 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate N.W. wind; fair to dull with low clouds, some local showers; visibility fair to good; little change of temperature.	None issued
5. S.W. England 6. South Wales 7. North Wales	Light N.W. breeze; much low cloud, occasional showers locally; visibility good; little change of temperature.	
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	Same as 1 - 4	
16. Orkneys and Shetlands 17. N.W. Ireland	Fresh to strong N.W. wind; much low cloud, passing showers; visibility mainly good, rather cold.	
18. N.E. Ireland	Same as 1 - 4	
19. S.E. Ireland 20. S.W. Ireland	Same as 5 - 6	

F.V.N


SYNOPTIC CHART FOR MORNING OF Monday, 14th February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility
Bar rising slowly.
Barometric changes slight.
HIGH
LOW
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 45 — Monday 14th February

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 13

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 12-13	Rainfall. Day. 9h-18h. 13	Sunshine. Sunrise to Sunset. 13
Scotland.	Banff	o c bc	c bc	50	43	-	-	1·6
England, N.E.	Harrogate	bc	bc bc o	49	39	-	-	3.7
	Skegness	m. o	o. bc om	46	39	-	-	0.2
England, E.	Lowestoft ...	o	o. c o	45	39	-	-	0 0
	Felixstowe	og	om	41	33	-	-	0.0
	Southend-on-Sea...	o	o	43	38	-	-	0.0
England, S.E.	Tunbridge Wells	o	o	44	37	-	-	0·1
	Margate	o	o	43	40	0·1	0·1	0 0
	Ramsgate	*	*	42	37	1	-	0 3
	Folkestone	o	o	48	36	-	-	0.0
	Hastings	o. bc b	bc. o	45	37	0·3	-	1·2
	Eastbourne... ...	o.c. bc o	o	46	38	-	-	1.3
	Brighton	o c. o	o.c o	44	39	-	-	0 3
	Worthing	c. o	o	45	38	-	-	0.3
	Portsmouth (S'thsea)	*	*	46	39	-	-	0·8
	Bournemouth ...	*	*	45	38	-	-	0·0

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 12-13	Rainfall. Day. 9h-18h. 13	Sunshine. Sunrise to Sunset. 13
England, N.W.	Blackpool	o. c	o	46	42	-	-	0·1
	Southport	c. o	c. o	45	41	0·3	-	0 1
Midlands.	Leamington Spa...	o d. o	o	46	36	-	0·3	0.0
	Bath	o. c. bc	o	47	38	-	-	0·5
Wales.	Rhyl	c	c o	45	41	0·3	-	0 2
	Colwyn Bay ...	*	*	46	32	1	-	0 1
	Llandudno	*	*	46	43	0 2	-	0 1
	Aberystwyth ...	*	*	46	40	1	-	0·3
England, S.W.	Weymouth	m. o	o	47	38	-	-	0·0
	Torquay	c	c	48	40	-	-	0 0
	Paignton							
	Penzance	o	o. c. o	48	42	-	-	0.0
	Bude	c	c	50	40	0·1	-	0 6
	Ilfracombe	o c. o	o	47	44	-	-	0·2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 13	Weather. 13h-18h. 13	Weather. 18h 13-1h. 14	Weather. 1h-7h 14	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
								mm.	mm.	
Renfrew ...	o1f.o pd.	co bc. c	bec	bec if	51	41	33	-	-	0·9
Eskdalemuir	bec pr.	pd. o o	cobec *	bc. c	48	38	36	0·1	-	3·8
Valencia (Cahirc'n) ...	o	o	o	o	49	44	43	-	-	0.0
Baldonnel	o	o. o1f	o2f b.	co o1f	46	38	38	-	0.1	0·1
Manchester (Alexander Pk)	dd o3f 2f	o2f o3f	pd. q o3f o4f	bco. o2f	47	41	40	Trace	Trace	*
Ross on Wye... ...	o1f b. co p. ov	ov	ov co bbc o	c o v	48	39	33	Trace	-	0 2
Falmouth	o1f o2f if	bc c if p.	co if	bc. c. o	48	40	37	-	-	0 1
Calshot (Hants)... ...	o. o if	co if bc if	o. o1f	o1f	46	39	39	-	-	0·8
Lympne (Folkestone) ...	o1f r. bc c	r. o1f	o1f	o1f bc c	42	36	36	0 1	-	1·67
Aberdeen	bec p.	bc. c p.	o1f p.	bc. c p.	54	40	37	Trace	0 2	2.0
Howden	o2f o1f	bec o.	q. ⊕	bc c if	49	37	31	-	-	2.0
Cranwell (Lincs)	c. o2f	o2f. co.	bc. c	b. bc	46	38	30	-	-	0·2
Felixstowe	o. o if	o. o1f	o1f co	b. bc if	45	39	38	-	-	0.0
Shoeburyness	o if e	o1f. o2f	o2f	co b bc	45	38	36	-	-	0.0
Benson	o	o	o	o	46	36	35	-	-	*
S. Farnborough ...	o1f	o1f	o	o	46	37	40	-	-	0.0
London (Kew Obsy.) ...	pd. o2f	o2f	o2f	o2f	45	40	38	-	-	0.0
Croydon	o1f 2f pd r.	o2f	o2f. o1f	o1f bc co1f	45	38	39	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-32·5
12	Above 75	32·6 or above

SYMBOLS— Aurora; Rime; Glazed frost; Glazed roads; Line Squall; Solar halo; Lunar halo; Solar corona; Lunar corona; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. Yesterday.	Humidity % 15 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	24 HOURS ENDED 9H G.M.T. 14									
Greenwich (Royal Observatory)	om	om	ombcc.	45	41	32	-	0.0	74	87
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	46	41	33	-	0.0	74	84
Regents Pk (Botanical Gdns)	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rainfall)	-	-	*	45	40	32	-	*	?	83
Kensington Palace	o	o	*	47	40	33	-	*	82 (18h)	83
Hampstead Observatory ...	*	*	*	44	38	32	-	0.0	*	88

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total 169 Joules.

	Milliwatts.
Average Rate.	4·8
Maximum Rate.	11

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

14 & 15 Feb 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	7.14 / 7.12	12.7 / 12.7	5.0 / 5.2
Greenwich	7.18 / 7.16	12.14 / 12.14	5.10 / 5.12
Wick ...	7.30 / 7.48	12.26 / 12.36	5.2 / 5.4
Valencia ...	8.0 / 7.58	12.22 / 12.22	5.30 / 5.32

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 15 m. to 6 h. 15 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	0	1	26	12
δ Ursae Minoris	12	0	1	19	11

NOTES ON THE WEATHER OF YESTERDAY.

Some rain fell in the West and North, but the amount was not as a rule large. There was not much bright sunshine, except for four hours at Eskdalemuir and Harrogate.

Maximum temperatures were nearly everywhere between 45° and 50°, but in parts of S.E. England the day was somewhat colder.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. LONDON:

BRITISH SECTION. No. B21.635 ...TUESDAY, 15TH FEBRUARY, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. ...14th...													
Renfrew	1026.6	+1	W	2	o	49	65	8	2,000	StCu	9	-	-	*
Eskdalemuir ...	1026.1	+2	NW	5	b	47	65	7	4,200	Cu	2	CiCu	1	*
Valencia (Cahirc'n)	1033.7	0	NW	2	o	51	85	8	2,000	StCu	7	aSt	3	3
Baldonnel ..	1030.4	0	W	2	o1f	50	85	7	2000	StCu	10	-	-	*
Manchester (Alex. Pk)	1027.9	+1	NW	4	o2f	46	85	5	2000	Cu	2	Ci	6	*
Ross on Wye ...	1028.2	+1	N	3	o1V⊕	50	65	9	4,200	StCu	3	Ci	6	*
Falmouth	1031.1	+1	NNW	3	o	51	75	7	-	StCu	10	-	-	*
Calshot (Hants) * ...	1028.1	-2	NNW	4	o	49	75	8	~~7000~~ 3000	StCu	7	aSt	2	2
Lympne (Folkestone)	1026.0	+1	NW	4	o	47	75	8	3000	StCu	8	Ci	1	*
Aberdeen	1025.5	+2	NW	4	bc	48	85	8	2,000	StCu	6	-	-	2
Howden	1026.2	+2	NW	5	c	50	65	7	4,200	Cu	5	CiSt	3	*
Cranwell (Lincs) ...	1026.3	+2	NW	3	c	49	75	5	3000	Cu	1	Ci	7	*
Felixstowe ...	1025.5	+2	NW	4	bc	49	75	7	4,200	Ci	4	Cu	1	*
Shoeburyness ...	1026.4	+3	NW	3	bc	49	75	7	4,200	Cu	4	-	-	*
Benson	1026.8	+1	NNW	3	c	49	65	6	-	Cu	5	Ci	2	*
S. Farnborough	1027.3	+2	NW	2	o	49	75	7	2000	StCu	7	CiSt	2	*
London (Kew Obsy.)	1026.9	+2	NNW	3	c	50	65	6	4,200	Cu	5	Ci	3	*
Croydon	1027.0	+2	NNW	2	c2f	48	75	5	3,000	StCu	7	Ci	1	*
	1H. G.M.T. OF ...15th...													
Renfrew ...	1022.9	-3	WSW	4	o	45	92	6	2000	St.	9	-	-	*
Eskdalemuir ...	1023.4	-4	SW	4	o	44	85	6	2000	St.	10	-	-	*
Valencia (Cahirc'n)	1031.9	0	NNW	1	bc	47	*	*	*	*	*	*	*	1
Baldonnel ...	1029.8	-2	SSW	3	o2f	45	85	5	750	St.	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	1032.6	+1	NNW	1	o rw	45	92	6	-	St.	10	-	-	*
Calshot (Hants)...	1030.5	+1	-	0	b1f	34	97	6	-	-	-	-	-	0
Lympne (Folkestone)	1029.4	+1	NNW	2	b1f	35	97	6	-	-	-	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	1025.9	-2	WSW	2	bc	40	97	6	3000	St.	2	ASt	2	*
Cranwell (Lincs)	1027.3	0	~~WNW~~	1	b	37	97	5	-	-	-	CiSt	1	*
Felixstowe ..	1029.8	+2	~~W~~	2	b2f	39	97	5	-	-	-	-	-	
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1s.)	1029.6	+1	*	*	*	37	*	*	*	*	*	*	*	*
Croydon ...	1030.1	0	W	1	bc2f	37	92	5	-	-	-	Ci	4	*

STATIONS.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. OF ...14th...													
Renfrew ...	1025.4	-1	WSW	3	oo	46	92	6	2000	Nb	10	-	~~4~~ 2	*
Eskdalemuir ...	1025.8	0	W	3	c	42	75	7	3000	StCu	5	aCu	4	*
Valencia (Cahirc'n)	1033.1	0	-	0	o1f	49	85	7	2,000	StCu	7	aSt	3	3
Baldonnel ..	1030.4	+1	WSW	3	o2f	47	85	5	750	StCu	10	-	-	*
Manchester (Alex. Pk)	1028.6	+1	NW	3	bo2f	43	92	4	3000	StCu	2	Ci	3	*
Ross on Wye ...	1029.2	+1	W	1	bV	43	85	9	-	-	-	CiCu	1	*
Falmouth	1031.4	+2	NNW	3	b	46	75	8	-	StCu	1	-	-	*
Calshot (Hants) * ...	1029.1	+2	NW	2	bc1f	43	85	7	-	-	-	Ci	5	1
Lympne (Folkestone)	1027.4	+1	NNW	2	b1f	42	85	7	3000	Cu	1	Ci	2	*
Aberdeen	1021.9	-2	SW	2	o2f	46	75	4	2000	Nb	10	-	-	2
Howden	~~1026.7~~	0	W	1	b	36	92	8	3,000	St	2	aSt	1	*
Cranwell (Lincs) ...	1027.5	+1	WNW	1	bc2f	42	92	4	3000	St	3	Ci	1	*
Felixstowe ...	1027.3	+3	NNW	2	b1f	43	85	6	4,200	Cu	2	Ci	1	*
Shoeburyness ...	1027.4	+1	-	0	c2fc	42	85	5	3000	Cu	7	-	-	*
Benson	1028.3	+1	NW	1	b	42	85	6	-	-	-	Ci	1	*
S. Farnborough	1028.3	+1	WNW	2	bc	44	85	6	-	St	2	CiSt	4	*
London (Kew Obsy.)	1028.1	+1	NW	1	c	46	75	4	5,700	St	3	Ci	4	*
Croydon	1028.5	+2	-	0	o3f	42	75	3	-	-	-	Ci	9	*
	7H. G.M.T. OF ...15th...													
Renfrew ...	1019.1	-4	SSW	4	oD	45	97	4	1250	Nb	10	-	-	
Eskdalemuir ...	1020.6	-1	S	3	o	42	85	6	2000	St.	10	-	-	*
Valencia (Cahirc'n)	1030.3	-1	WSW	3	o	48	75	8	3000	St.	10	-	-	*
Baldonnel ...	1026.6	-2	SSW	4	o1f	46	85	6	2000	St.	10	-	-	*
Manchester (Alex. Pk)	1025.6	-3	W	5	o9m	46	85	4	1250	St.	10	-	-	*
Ross on Wye...	1028.4	0	WSW	2	o	42	85	8	3000	StCu	10	-	-	*
Falmouth ...	1031.6	-1	WNW	2	o	44	97	7	-	St.	10	-	-	*
Calshot (Hants)...	1029.9	-1	W	2	bc2f	34	97	5	-	-	-	ASt	4	1
Lympne (Folkestone)	1028.5	0	NW	2	o2f	34	92	5	2000	StCu	9	-	-	*
Aberdeen ...	1013.0	-3	WSW	3	o1f	49	65	7	4200	StCu	10	-	-	2
Howden ...	1023.0	-3	W	4	om	42	85	7	2000	St.	7	ASt	2	*
Cranwell (Lincs)	1024.7	-2	WSW	3	o1f	42	92	6	3000	StCu	9	-	-	*
Felixstowe ..	1026.6	-1	WNW	3	o2f	37	97	4	2000	StCu	10	-	-	2
Shoeburyness...	1027.6	0	W	3	bc2fc	39	85	5	3000	StCu	6	-	-	*
Benson	1027.8	0	SW	1	o	34	97	5	-	St.	10	-	-	*
S. Farnborough	1028.6	-1	W	1	o2c	35	97	7	4200	StCu	4	ASt	5	*
London (M.O. at 1s.)	1028.2	-1	SW	2	omW	37	92	4	3000	StCu	6	ASt	3	*
Croydon ...	1028.4	-2	WSW	3	o1f	41	85	6	4200	StCu	2	ACu	7	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of ...14th...					7H. G.M.T. of ...15th...									24 HOURS ENDED 7H. ...15th...						14th
Lerwick						1002.7	-6	47	+11	SSW	5	-	omrq	4	21	48	36	bc.	c	omrq	*
Stornoway ...	1016.9	38	-	0	c	1008.5	-6	48	+6	WSW	6	-	orq	5	3	48	43	c.op.	o	oqorq	1.1
Castlebay (Barra Is)	1021.0	46	W	4	o	1015.2	-3	49	+3	W	5	-	op	4	1	49	44			op	0.0
Malin Head ...	1027.9	47	W	2	o1f.	1018.9	-2	46	0	SW	4	SW	omq	4	2	47	45	fr.	om	c.omp	0.0
Blacksod Point	1030.9	49	W	2	o	1022.8	-2	49	0	W	4	-	o	3	0.4	52	45	bc.	o	c.oc	*
Roche's Point...	1032.4	49	NW	3	*	1030.9	-1	46	-1	W	2	-	o	2	trace	52	45	o.	oz.	o	*
Birr Castle ...	1031.1	47	W	1	o	1027.7	*	46	0	SW	2	-	o	*	-	51	44	o	o	o	0.0
Donaghadee ...	1027.6	48	WNW	1	cm	1024.1	-4	45	+2	W	2	-	cm	2	1	50	44	bom	cmp	cm	*
Liverpool (Bidston)	1028.7	44	W	3	c	1025.3	-2	46	+1	W	5	W	oq	5	*	47	43	bc.	bc.o.	coq	4.9
Holyhead ...	1029.5	47	WNW	3	o	1026.6	-2	47	+1	W	4	-	og	3	trace	49	45	o c. bc	bc.o.o	opd co	2.1
Pembroke (St. Ann's Head)	1031.3	47	NW	2	cV	1029.2	-1	47	0	W	3	-	o	2	-	51	42	c.bcV.	bcV	cVco	3.8
Scilly (St. Mary's)	1031.4	49	NNW	1	c	1032.1	-1	49	+2	NW	2	-	c	3	0.3	51	45	c.omq	om.bc.c	cb.bc	1.9
Jersey (St. Aubin)	1029.1	48	NW	1	b	1031.1	0	34	-11	-	0	-	sfe	0	-	51	34	o.	o.bc.b	bmxfe	0.0
Portland Bill ...	1029.1	47	NW	4	bc	1030.2	0	45	+1	NNW	4	-	bc	4	-	52	40	o.bc	bc	bc.bbc	*
Dungeness ...	1026.6	46	N	2	b	1025.3	0	42	0	W	3	-	bc	3	-	50	32	c.bc.	bc	bcbbc	*
Wick	1018.5	45	WNW	2	omr.	1007.7	-7	49	+9	W	3	-	o	2	3	49	38	c.op.	omp	omp	*
Nairn	1020.6	45	W	2	c.	1010.3	*	49	+9	W	3	-	cg	2	0.1	49	39	bc.c.	cqo.	cqg	1.7
Leith	1023.9	45	W	2	o	1016.2	-1	46	+4	WSW	4	-	o	3	-	49	40	bcc b	bcco	ocqo	*
Tynemouth ...	1024.9	46	W	1	c2f.	1021.0	-2	45	+5	W	3	-	bc2f	3	-	49	39	bcm.	bcf.	bmbcm	*
Spurn Head ...	1026.2	41	WNW	2	b2	1022.3	-3	43	+2	W	4	-	cm	3	-	47	39	bq.	bc	f.bm	*
Yarmouth (Obs. Gdns)	1025.5	42	NNW	2	bc	1024.8	-1	36	-4	W	3	-	om	2	-	49	34	bq.bcq	bcq.bc	bmomx	7.7
Clacton-on-Sea	1027.1	44	WNW	2	c	1027.0	-1	37	-5	W	3	-	cmx	2	-	51	35	bc.	bc.c	cbcmx	5.3
Nottingham ...	1028.1	45	NW	2	b	1025.2	*	44	0	W	3	-	om	3	-	50	37	c.om.	bcm	b	1.3

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

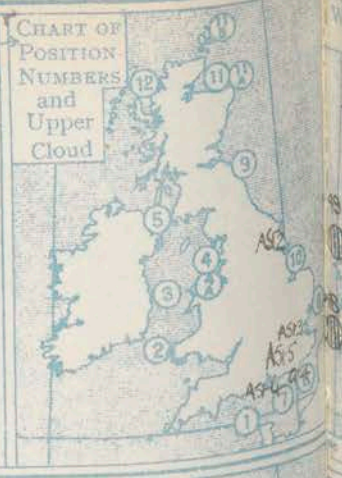
M.O FORM 2370

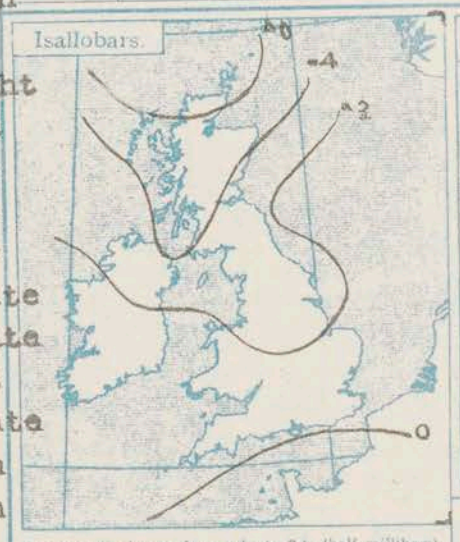
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 15.2.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to dull, misty.	Fair	Slight
2. E. England	Dull, misty	Indiff.	Smooth
3. E. Midlands	Dull, misty	Indiff.	--
4. W. Midlands	Dull	Fair	--
5. S.W. England	Dull, local fog.	Fair	V.Smooth
6. South Wales	Dull	W.Good	Smooth
7. North Wales	Dull, gloomy; squally	Fair	Moderate
8. N.W. England	Dull, squally	Fair	R.Rough
9. N. Midlands	Dull;	Fair	--
10. N.E. England	Fair to dull; local mist.	Indiff.	Slight
11. E. Scotland	Dull	Good	Smooth
12. S.W. Scotland	Dull, some drizzle.	Indiff.	Slight
13. Isle of Man	Dull	Fair	Slight
14. N.& N.W. Scotland	Dull	Indiff.	Slight
15. Hebrides	Dull, squally, some rain	Indiff.	Moderate
16. Orkneys and Shetlands	Dull, squally, some rain	Indiff.	Moderate
17. N.W. Ireland	Dull	Good	Slight
18. N.E. Ireland	Dull, misty	Fair	Moderate
19. S.E. Ireland	Dull	Good	Smooth
20. S.W. Ireland	Dull	V.Good	Smooth

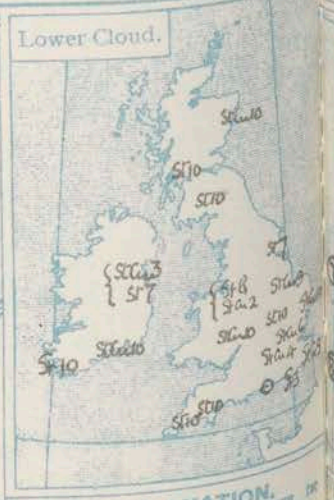
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
9	14	0300	44	43
5	"	0818	47	46
3	"	0945	48	48
2	15	0200	49	48
7	"	0302	48	45
4a	"	0400	44	47
12	"	0530	47	49
5	"	0822	46	47





Barometric change from 4 h. to 7 h. (half millibars).



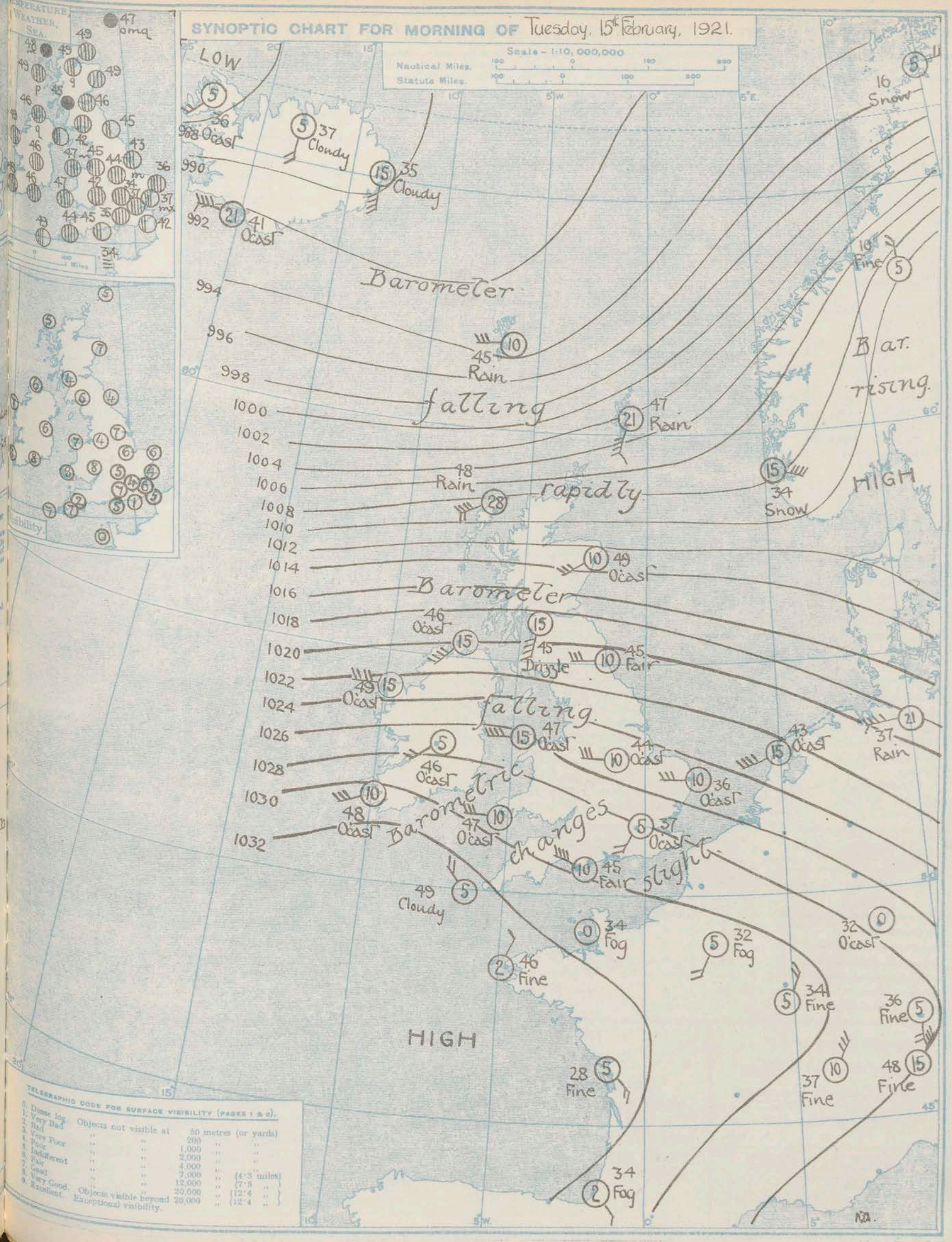
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

Depressions North of the British Isles will maintain S.W. to W. winds generally for a day or two blowing strongly at times especially in the North and the weather will be mild and cloudy with occasional rain.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday 15th February 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate to fresh S.W. to W. wind; much low cloud, some rain later; visibility fair; mild.	There is some likelihood of a milder type of weather setting in, with winds from between South and West.
▼ 7. North Wales ▼ 8. N.W. England 9. N. Midlands 10. N.E. England	Strong S.W. to W. wind; much low cloud, some rain; visibility mainly fair; rather mild.	▼ South Cone hoisted 09.00h. 15th Feb.
▼ 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.W. to W., strong to a gale; much low cloud, rain at times; visibility very variable, but probably good on Wednesday; rather mild.	
19. S.E. Ireland 20. S.W. Ireland	Same as 1-6.	

S.VN


SYNOPTIC CHART FOR MORNING OF Tuesday, 15th February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer falling rapidly
Bar. rising
HIGH
Barometer falling
Barometric changes slight
HIGH
TEMPERATURE, WEATHER, SEA.
Visibility
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 46.

Tuesday 15th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 13th-14th	Rainfall. Day. 9h-18h. 14th	Sunshine. Sunrise to Sunset. 14th
Scotland.	Banff	o.c.o.	od.o	45	40	.04	1	0.3
England, N.E.	Harrogate	b	b	50	40	-	-	8.2
	Skegness	bc.o.bm	bm	50	40	-	-	6.9
England, E.	Lowestoft	bc.	bc.c.bc.	48	38	-	-	7.9
	Felixstowe	bcm	b	50	39	-	-	5.7
	Southend-on-Sea	c.bc.	bc	50	40	-	-	4.5
England, S.E.	Tunbridge Wells	o.	c.bc.	50	40	-	-	0.2
	Margate	bc.b	b.bc.	47	40	-	-	6.1
	Ramsgate	*	*	48	40	-	-	6.0
	Folkestone	o.c.	c	50	38	-	-	1.4
	Hastings	bc o.o	c.bc	50	41	-	-	2.0
	Eastbourne	o.c.	o	50	42	-	-	1.3
	Brighton	o.c	c	50	42	-	-	0.8
	Worthing	bc.	bc	50	42	-	-	2.0
	Portsmouth (S'thsea)	*	*	51	42	-	-	4.3
	Bournemouth	*	*	52	40	-	-	3.2
England, N.W.	Blackpool	c.	bc.	48	42	-	-	6.5
	Southport	bc.o.	c.bc.bco	47	42	-	-	5.2
Midlands.	Leamington Spa							
	Bath	o.c.bc.	o.bc.b	51	44	-	-	3.5
Wales.	Rhyl	c.	bc	47	43	-	-	2.5
	Colwyn Bay	*	*	48	43	1	-	2.7
	Llandudno	o.d.c.	c.b.bc.	49	44	2	0.3	3.1
	Aberystwyth	?	?	48	44	-	-	5.5
England, S.W.	Weymouth	o.bc.	bc.	55	43	-	-	4.2
	Torquay	o.dg.	c.bc.b.	52	43	-	-	1.6
	Paignton	od.c.	c.bc.b	53	41	-	-	1.6
	Penzance	c.o.	o.bc.	52	43	0.2	-	2.0
	Bude	o.bc.	b	51	43	0.2	-	4.7
	Ilfracombe	o.c.	c.bc	51	45	-	-	3.7

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 14th	Weather. 13h-18h 14th	Weather. 18h-14h-15th	Weather. 1h-7h 15th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	c o1f	o1f o.b.bc	c o.o	o2fc o2fD	51	42	42	-	0.2	~~1.3~~ 2.3
Eskdalemuir	bc c.b.bc	bc.c.c.o	cof.o	o	48	38	38	-	-	4.8
Valencia (Cahire'a)	o1f o	c.o.o1f	o.	o	51	47	45	-	-	0.0
Baldonnel	o2fd.od	o1f.o2f	o3fo2f	o1f 2f	50	43	41	0.1	-	0.0
Manchester (Alex Pk)	bc c o2f	c.o1fbcof	bcod.o2f	o2f f	49	41	32	-	0.1	*
Ross on Wye	ow c o	c.ovbcc	bbc.b	bbc o	51	34	28	-	-	1.9
Falmouth	o	c.o.c.b.bc	bbcw.bow	ow	52	40	31	-	-	2.6
Calshot (Hants)	o1fw c o2fc	c.o.bc.c.bc	bif	bif bbc2fx	50	33	25	-	-	3.4
Lympne (Folkestone)	bc c2f c o2f	c.c.o1f.bc	b	bx bo1f	48	31	28	-	-	5.5
Aberdeen	bc.cp	bc.cp	o2fc.o	c.o.o1f	49	39	39	1	-	2.0
Howden	bc.o.bc.c	b bc bc.c	bcc (1)	2fc bcc	51	34	31	-	-	7.4
Cranwell (Lincs)	bc.c.b.bc	bc.c2f.	b.bbc	b.o 1	49	35	32	-	-	6.5
Felixstowe	1f.bc.c	b.bc1f.	b1f	bbccc.o2f	50	35	30	-	-	5.5
Shoeburyness	b.bc.b.bc	bc.c2f.	2fcx	bcc 2fc	51	35	29	-	-	4.5
Benson	o.bc.c.	b.bc.b.bc	b	ox	50	29	23	-	-	*
S. Farnborough	c.o.bc.c	1f.bc.c.	bbc	bbc bcc	52	28	24	-	-	2.9
London (Kew Obsy.)	w bcc.c.c	c.o2f.	cobcb2fbxb2f	o2f w	50	36	24	-	trace	1.9
Croydon	o1f.o2fc o2f	c.o2f c.o (3f) (1)	cobcc 3f2f	bcco2f1f	50	37	29	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ⌅ Lunar halo ⊖ Glazed frost ⌁ Solar corona ⊕ Glazed roads ⌁ Lunar corona ⊖ Line Squall ⊠ Snow lying ⊠

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED ON G.M.T. 15th							Yesterday.		To-day.
Greenwich (Royal Observatory)	c	c	bbco.bo	51	37	28	-	0.6	64	88
City (Bunhill Row)	*	*	*	*	*	*	*	0.9	*	*
Westminster (St. James's Park)	*	*	*	51	35	29	-	1.2	64	90
Regents Pk. (Botanical Gdns)	*	*	*	*	*	*	*	2.1	*	*
Camden Sq. (British Rainfall)	bcc	bc	*	52	34	30	-	*	66	90
Kensington Palace	bc	bc	*	51	36	28	-	*	72 (18h)	90
Hampstead Observatory	*	*	*	50	35	28	-	1.8	*	93

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total 434 joules.

Milliwatts.

Average Rate. 122

Maximum Rate. 28

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

15th AND 16th FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.12 / 7.10	12.7 / 12.7	5.2 / 5.4
Greenwich	7.16 / 7.15	12.14 / 12.14	5.12 / 5.13
Wick	7.48 / 7.46	12.26 / 12.26	5.4 / 5.6
Valencia	7.58 / 7.57	12.55 / 12.55	5.52 / 5.53

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	0	9	21	78
δ Ursae Minoris	12	0	9	8	76

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell again in the North, but the amount was not large except at Lerwick, where the total was 21 mm.

The temperature rose slightly above 50° in many places, even as far North as Glasgow. Sunshine records were very good in some cases, especially in the East and North East of England, where totals of 7 to 8 hours were not uncommon.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21636 Wednesday, 16th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

13H. G.M.T. 15th / 18H. G.M.T. of 15th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1015.6	-2	SW	6	orq/	48	92	7	750	Nb	10	-	-	*	1013.6	-1	WSW	6	oroq	48	97	6	750	Nb	10	-	-	*
Eskdalemuir	1017.3	-2	SW	5	or₀	43	97	5	2000	Nb	10	-	-	*	1013.0	-2	WNW	7	o	47	85	6	2000	St	10	-	-	*
Valencia (Cahirc'n)	1028.9	-3	WSW	4	o	50	75	8	3000	StCu	7	aSt	3	4	1026.9	-1	WSW	3	o	49	75	8	2000	StCu	7	aSt	3	4
Baldonnel	1025.2	-2	SW	4	o	48	75	8	2000	StCu	10	-	-	*	1023.0	-2	SW	5	of	48	85	6	1,250	StCu	10	-	-	*
Manchester (Alex. Pk)	1023.9	-1	W	5	oif	49	75	6	2000	St	2	aSt	8	*	1021.7	-1	WSW	5	ozf	48	75	4	2000	Nb	10	-	-	*
Ross on Wye	1026.5	-2	W	5	o⊕V	49	65	9	4,200	Nb	4	CiSt	6	*	1024.6	-1	W	1	o	45	75	8	3000	Cu	1	aSt	8	*
Falmouth	1025.8	-2	W	2	o	50	65	8	-	StCu	10	-	-	*	1029.7	-2	WNW	2	c	46	85	8	-	StCu	7	-	-	*
Calshot (Hants)	1028.2	-2	SW	3	o	47	85	8	4,200	StCu	10	-	-	2	1026.2	-2	W	4	o	48	75	8	3000	StCu	10	-	-	2
Lympne (Folkestone)	1026.6	-3	W	4	oif	46	75	6	3000	StCu	10	-	-	*	1024.7	-2	WSW	4	bcif	43	92	6	3000	StCu	6	-	-	*
Aberdeen	1007.4	-5	WSW	5	c	56	55	8	3000	St	3	aSt	4	5	1005.8	-1	W	5	c	52	65	8	3000	St	4	aSt	3	3
Howden	1020.4	-3	WNW	5	oif	48	75	7	2000	St	8	aSt	2	*	1018.3	-1	W	7	oq	47	75	5	2000	St	10	-	-	*
Cranwell (Lincs)	1022.2	-4	W	4	o	46	85	7	3000	St	3	aSt	7	*	1021.7	0	W	3	ozf	44 [45 struck]	85	5	3000	StCu	8	aSt	2	*
Felixstowe	1024.8	-3	SW	4	ozf	46	85	5	3000	StCu	10	-	-	*	1022.6	-1	WSW	3	oif	46	85	6	3000	StCu	8	aSt	2	*
Shoeburyness	1025.8	-2	W	3	ozfe	48	75	5	4,200	St	4	aCu	3	*	1023.3	-2	WSW	1	bzfe	44	85	3	2,000	St	3	-	-	*
Benson	1026.0	-2	W	3	o	48	75	5	-	St	10	-	-	*	1024.5	-1	SW	2	o	45	85	5	-	St	10	-	-	*
S. Farnborough	1027.2	-1	W	3	oif	47	76	7	3000	StCu	7	aSt	3	*	1024.9	-1	W	3	o	45	75	6	3000	StCu	0	aSt	3	*
London (Kew Obsy.)	1026.4	-3	WSW	3	ozf	47	75	5	5,700	StCu	7	aSt	3	*	1024.4	-1	WSW	3	bzf	46	75	5	3000	StCu	1	aSt	2	*
Croydon	1027.0	-1	WSW	3	oif	47	75	6	4,200	StCu	10	-	-	*	1024.7	-2	SW	3	OIF⊕ [oif struck]	45	75	6	2000	StCu	2	aSt	7	*

1H. G.M.T. of 16th / 7H. G.M.T. of 16th

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1014.9	+3	WSW	3	oif	49	92	7	3000	StCu	10	-	-	*	1016.4	+2	SW	3	oif	48	97	7	3000	St	10	-	-	*
Eskdalemuir	1015.5	+3	WNW	5	o	48	85	6	2000	St	10	-	-	*	1016.9	+2	WNW	3	or₀	48	85	6	2000	Nb	10	-	-	*
Valencia (Cahirc'n)	1026.3	0	WSW	2	o	49	*	*	*	*	*	*	*	4	1025.7	0	W	2	o	48	85	8	3000	St	7	ASt	3	*
Baldonnel	1022.9	-2	SW	5	oq	47	85	5	1250	StCu	9	-	-	*	1023.5	+2	SW	4	oif	47	92	6	1250	StCu	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.4	-1	W	4	oqdzf	47	92	4	750	St	10	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.5	0	NW	2	oV	45	85	9	3000	StCu	6	CiSt	4	*
Falmouth	1028.0	-1	WNW	1	o	47	75	8	-	StCu	10	-	-	*	1026.3	-1	W	1	o	45	92	7	-	StCu	10	-	-	*
Calshot (Hants)	1025.0	-2	W	4	c	45	85	8	4200	StCu	8	-	-	3	1023.8	-2	SW	3	o	43	85	8	-	-	-	ACu	9	2
Lympne (Folkestone)	1022.9	0	WSW	4	cif	43	85	6	3000	StCu	2	CiSt	6	*	1021.5	0	WNW	2	bc	41	92	8	4200	StCu	2	ASt	2	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.4	+2	WSW	1	cif	44	75	7	4200	StCu	8	-	-	1
Howden	1017.4	-1	W	5	oq	47	85	5	1250	St	10	-	-	*	1018.0	+1	WNW	5	oq	47	92	7	3000	St	7	ASt	3	*
Cranwell (Lincs)	1019.2	-1	WNW	4	oif	46	92	6	3000 [4200 struck]	StCu	8	ASt	2 8	*	1019.8	+1	WNW	2	c	46	92	8	3000	Cu	4	ACu	4	*
Felixstowe	1020.5	-2	WSW	4	oif	45	85	6	2000	St	6	CiSt	3	3	1020.1	0	WNW	4	o	46	85	6	3000	St	10	-	-	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.3	-1	NW	4	bcife	43	85	6	7200	StCu	1	CiCu	3	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.1	+1	WSW	1	o	39	97	6	-	St	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.0	0	W	2	c	39	97	7	-	-	-	CiCu	7	*
London (M.O. at 1H.)	*	*	*	*	*	45	*	*	*	*	*	*	*	*	1022.5	0	WSW	2	c	42	85	5	-	-	-	ACu	7	*
Croydon	1023.8	-2	WSW	4	oif	45	85	7	2000	StCu	3	Ci	7	*	1022.7	-1	WSW	4	cif	43	85	6	-	-	-	ACu	8	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	18H. G.M.T. of 15th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7H. G.M.T. of 16th: Barometer at M.S.L. mb.	‡ Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 Hours ended 7H. 16th: † Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (15th)
Lerwick	995.8	45	WNW	5	croq	1006.8	+2	44	-3	NW	5	NW	bcq	4	13	48	40	omrq/	cpq/	bcpq bcq	*
Stornoway	1007.8	46	W	5	bc	1014.5	+2	43	-5	-	0	-	of	0	6	50	42	orq.	o.bc	bc bco	0.0
Castlebay (Barra Is)	1011.5	50	W	5	r	1016.5	+2	50	+1	WNW	4	-	d.	4	3	50	47	opr	r	ropd	0.0
Malin Head	1015.1	48	SW	5	oq/	1018.7	+2	48	+2	SW	3	-	ozfe	4	2	49	45	omq/p	omq/e.	fd	0.0
Blacksod Point	1020.7	50	W	4	o	1022.5	0	48	-1	W	3	-	bc	3	-	50	47	oem	od.	obc	*
Roche's Point	1027.2	44	W	3	o	1026.2	0	47	+1	W	1	.	o	1	-	51	45	o.	o	o	*
Birr Castle	1024.5	48	W	2	o	1023.7	*	46	0	W	1	.	r	*	1	49	43	o	o	odro	0.0
Donaghadee	1018.2	49	WNW	4	cmq/	1020.2	+2	49	+4	W	2	.	bcm	2	-	50	45	cmq/	cmq/	bcmq	*
Liverpool (Bidston)	1020.6	47	W	5	o	1020.8	+1	47	+2	W	5	W	o	5	-	49	45	o.	o.c	oq	0.0
Holyhead	1021.8	49	W	5	cq/	1021.7	0	48	+1	W	5	-	og	4	-	49	46	ocq/q.	o.c.oq	oq g	0.0
Pembroke (St. Ann's Head)	1026.1	48	WSW	4	oV	1024.7	-1	48	+1	W	4	-	o	4	-	49	47	oV.	oV	oV	0.2
Scilly (St. Mary's)	1029.5	48	W	2	oV	1026.7	-2	48	-1	NW	2	-	oV	3	-	50	45	c.o.c.	oV.	oV	0.0
Jersey (St. Aubin)	1028.9	48	W	3	b	1025.9	-1	48	+14	WNW	2	-	o	2	-	51	34	eb	b	bo	7.5
Portland Bill	1027.6	47	W	5	o	1025.5	0	46	+1	W	5	W	o	5	-	50	40	bc	o.	o	*
Dungeness	1023.8	46	WSW	4	bc	1020.8	-1	44	+2	WSW	3	-	bc	4	-	50	41	bc c.	c.bc	bc	*
Wick	1003.1	48	WNW	4	c	1011.6	+3	41	-8	WNW	1	-	bc	2	1	51	38	oq/p	o.cq/p	cbcq bcp	*
Nairn	1006.0	51	W	4	c	1014.6	*	44	-5	W	1	-	c	1	1	52	42	cq/q	qδpro.	qcg	0.0
Leith	1009.8	49	WNW	6	o	1014.7	+1	46	0	W	2	-	c	2	0.4	51	45	oq bo	ocq o	oqc	*
Tynemouth	1014.0	48	W	2	o	1015.4	+2	48	+3	W	2	-	cf	3	-	48	45	om	omq/	omq bcm	*
Spurn Head	1016.6	47	WNW	6	oq/	1017.1	+2	47	+4	WNW	5	-	oq	4	-	47	40	ofe:	cm.oq/	oq	*
Yarmouth (Gorleston)	1020.7	47	WNW	4	m	1018.2	+2	46	+10	WNW	4	.	oq if	1	0.2	49	36	oqm	bc.opq/	opq opq	1.2
Clacton-on-Sea	1022.5	44	W	3	bc	1019.8	0	45	+8	W	4	.	c	3	-	47	36	c.oqm	oq bcm	bcome	0.0
Nottingham	1021.4	47	W	3	c	1020.0	*	49	+5	WNW	3	-	o	*	-	50	43	om.	o.c	co	0.0

* Information for these columns not usually received   ‡ The barometric change is expressed in half millibars.   § For code see page 3   † See footnote p. 4.

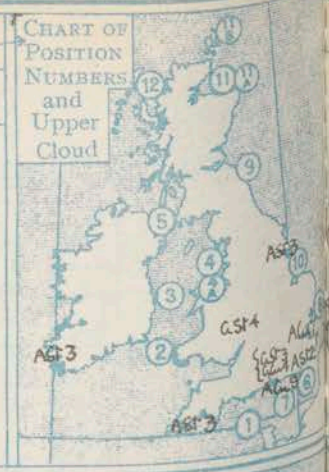
M.O FORM 2370

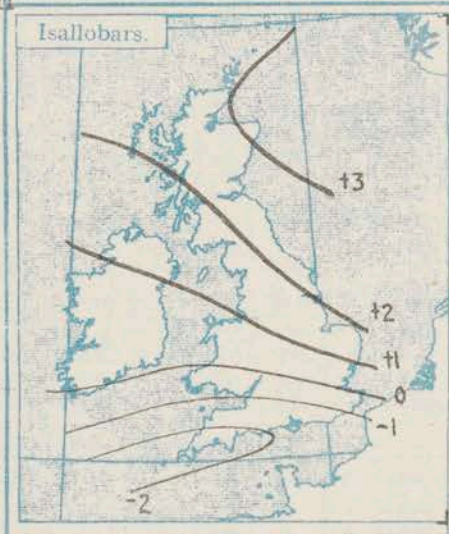
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 16.2.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to cloudy, local mist.	Good	Mod.
2. E. England	Dull, squalls locally.	Fair	Smooth
3. E. Midlands	Dull.	"	-
4. W. Midlands	Dull.	Good	-
5. S.W. England	Dull.	"	Slight
6. South Wales	Dull.	V. Good	Mod.
7. North Wales	Dull.	Good	"
8. N.W. England	Dull, squally, some drizzle.	Fair	R. Rough
9. N. Midlands	Squally, some drizzle.	"	-
10. N.E. England	Cloudy.	Good	Slight
11. E. Scotland	Cloudy.	"	Smooth
12. S.W. Scotland	Dull, some light rain.	"	Slight
13. Isle of Man	Dull.	"	Mod.
14. N. & N.W. Scotland	Fair.	Fair	Smooth
15. Hebrides	Dull, light rain.	"	Slight
16. Orkneys and Shetlands	Fair, squally.	Indiff.	Mod.
17. N.W. Ireland	Fair to dull.	Good	Slight
18. N.E. Ireland	Fair to dull, misty.	Indiff.	Mod.
19. S.E. Ireland	Dull.	Good	Smooth
20. S.W. Ireland	Dull.	"	Slight

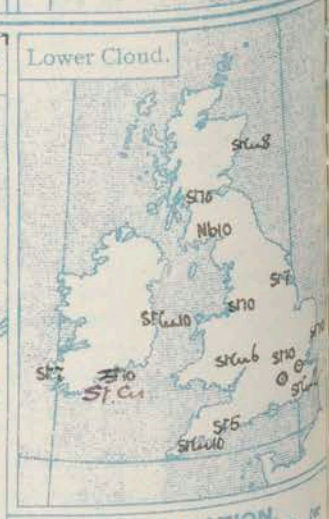
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
3	15th	1015	48	49
1	"	1300	50	50
8	"	1347	45	45
6	"	1430	47	49
2	16th	0200	50	48
7	"	0318	48	49
4A	"	0300	45	49





Barometric change from 4 h. to 7 h. (half millibars).



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 degrees F.

WEATHER SYMBOLS.— clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.

SEA DISTURBANCE.— Rough High

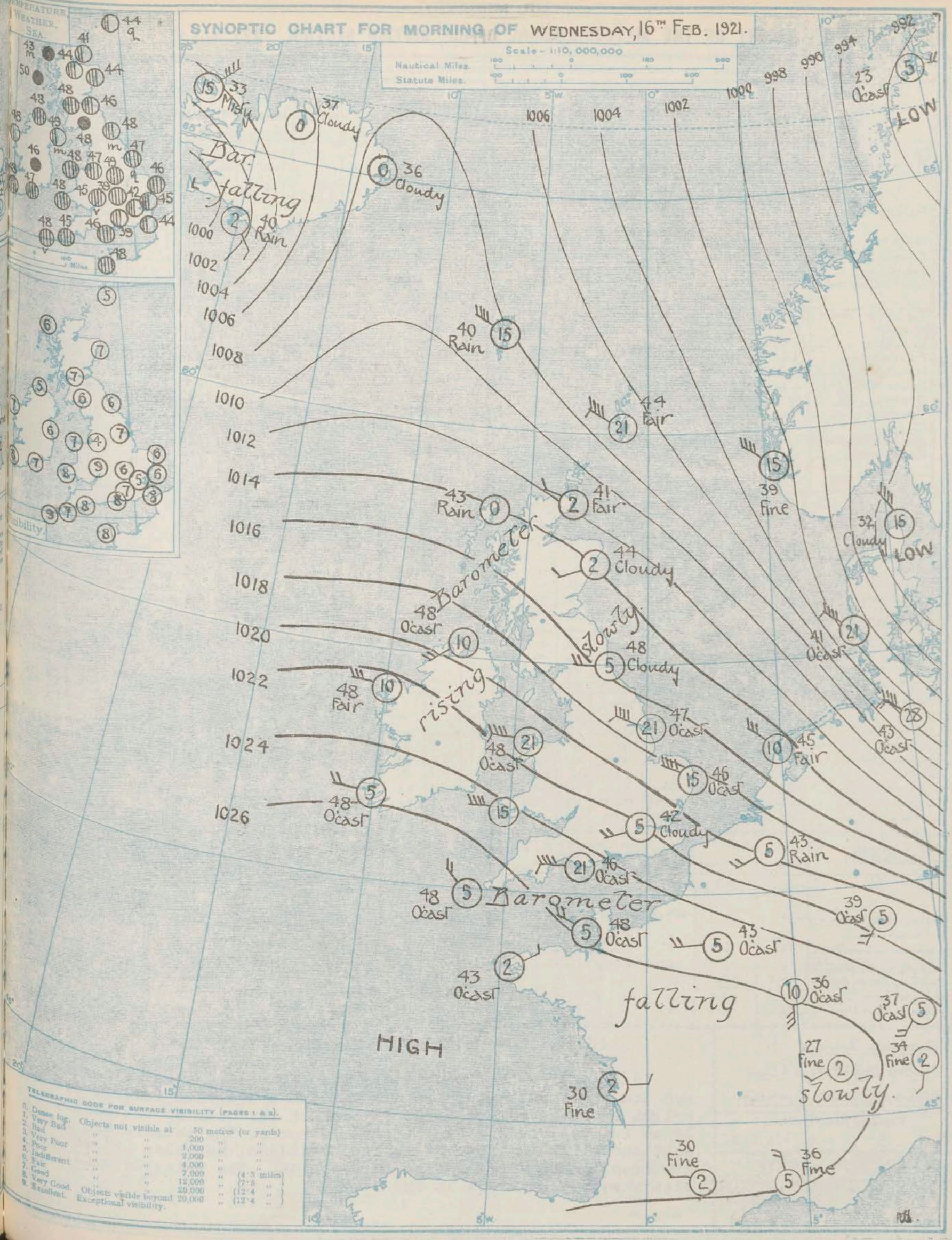
GENERAL INFERENCE from observations received up to 9h.

The Westerly wind will decrease and the weather improve temporarily as the result of a wedge of high pressure crossing the British Isles, but in the West and North dull to rainy weather will begin again soon with freshening South-Westerly winds.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 16th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light Westerly wind; fair to fine at first, cloudier, with perhaps some rain later, slight mist at night inland; rather cold, becoming milder.	Westerly or South-Westerly winds; temperature mainly high for the time of year; some rain in all districts. ---- ✝ South Cone hoisted 09.00h. 15th Feb., still flying.
5. S.W. England 6. South Wales	Moderate S.W. wind; much low cloud, probably some rain later; visibility good; mild.	
✝7. North Wales ✝8. N.W. England 9. N. Midlands	Moderate Westerly wind, backing to S.W. and freshening later; fair at first, much low cloud and some rain later; visibility fair to good; mild.	
10. N.E. England ✝11. E. Scotland	Same as 1 - 4.	
✝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.W., becoming fresh to strong; much low cloud, some rain, visibility fair; mild.	
19. S.E. Ireland 20. S.W. Ireland	Same as 5 - 6.	

E.V.N

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


SYNOPTIC CHART FOR MORNING OF WEDNESDAY, 16TH FEB. 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Bar. falling
Barometer rising slowly
Barometer falling slowly
HIGH
LOW
LOW
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1006
1004
1002
1000
998
996
994
992
15 33 Misty
0 37 Cloudy
0 36 Cloudy
2 40 Rain
40 Rain 15
21 44 Fair
15 39 Fine
43 Rain 0
2 41 Fair
2 44 Cloudy
48 O'cast 10
5 48 Cloudy
48 Fair 10
21 47 O'cast
10 45 Fair
48 O'cast 21
15 46 O'cast
48 O'cast 5
15
5 42 Cloudy
5 43 Rain
21 46 O'cast
48 O'cast 5
5 48 O'cast
5 43 O'cast
39 O'cast 5
43 O'cast 2
10 36 O'cast
37 O'cast 5
34 Fine 2
27 Fine 2
30 Fine 2
30 Fine 2
36 Fine 5
23 O'cast 5
32 Cloudy 15
41 O'cast 21
43 O'cast 28
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 47 ... Wednesday 16th February

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 15

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 14-15	Rainfall. Day. 9h-18h. 15	Sunshine. Sunrise to Sunset. 15
Scotland.	Banff	o c.	cp.	54	43	-	0.2	0.3
England, N.E.	Harrogate	o	o	45	39	-	-	0.0
	Skegness	bc.o	o bc.o	50	34	-	-	0.7
England, E.	Lowestoft ...	o.o.	c bc.c.o	48	34	-	-	0.5
	Felixstowe	cm	bc	48	39	-	-	0.1
	Southend-on-Sea...	o	o.o	47	35	-	-	0.2
England, S.E.	Tunbridge Wells	x.b bc.c	o	48	32	-	-	0.5
	Margate	o.	o	49	37	-	-	0.4
	Ramsgate	*	*	47	36	-	-	0.4
	Folkestone	o.c.	o	49	36	-	-	1.0
	Hastings	c.o	o.c.o	49	36	-	-	1.5
	Eastbourne	c bc.o	o	48	38	-	-	1.5
	Brighton	c.	c.o	46	33	-	-	1.0
	Worthing	bc.	c	48	33	-	-	1.5
	Portsmouth (S'thsea)	x.	x.	49	34	-	-	0.8
	Bournemouth ...	*	*	50	34	-	-	1.3
England, N.W.	Blackpool	c.	ou	46	43	0.3	-	0.1
	Southport	o	o	46	43	-	-	0.0
Midlands.	Leamington Spa...	o.	o.	49	32	-	-	0.0
	Bath	o.	o.c	50	32	-	-	0.5
Wales.	Rhyl	c.	c.o	49	42	0.1	-	0.2
	Colwyn Bay ...	x.	x.	48	44	-	-	0.2
	Llandudno	?	?	48	45	-	-	0.1
	Aberystwyth ...	x.	x.	48	44	-	-	0.0
England, S.W.	Weymouth	o.	c.	51	33	-	-	0.2
	Torquay	wo.	o.c.	51	37	-	-	0.4
	Paignton	o.	o bc.o	51	34	-	-	0.4
	Penzance	ov.	v.o.	51	44	-	-	0.0
	Bude	c.	c	51	47	-	-	1.5
	Ilfracombe	o.c.	c bc.c	50	44	-	-	0.0

STATIONS.	Summaries for past 24 Hours. Weather. 7h-13h. 15	13h-18h. 15	18h. 15-1h. 16	1h-7h. 16	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	o1fp5 r5q	o1f r5r5q	o1f p d5	c o1f	51	45	44	1	1	0.0
Eskdalemuir	r5r5	r5 o	r5 o	o r5r5	50	40	45	2	2	0.0
Valencia (Cahire'n) ...	o	o	o	o	50	48	46	-	-	0.0
Baldonnel	o1f.o	o1f. o1f.	p.9 o2f	o1f 2f	49	45	43	-	trace	0.0
Manchester (Alex. Pk.)	9o2f. o1f.	o1fq	o2f q	9o2fr.dd	49	45	44	-	1	*
Ross on Wye... ...	o1 c.o5	c.o1 bcco	co r	oco	52	42	35	-	-	1.1
Falmouth	o.	bc c.o o bc.c	o	o	50	43	42	-	-	0.4
Calshot (Hants)...	b bc2f bc2f bc.c o o	o	oco	co	49	34	39	-	-	1.2
Lympne (Folkestone) ...	o2f o1f	o1f. bc. c1f.	bbc1f ψ	bcc1f	48	34	38	-	-	1.2
Aberdeen	o1f c o.	o q.	coq	bcc1f	56	44	37	-	-	1.1
Howden	z. o1f.	q. o1f.	q.o	q o1f	51	42	39	-	-	0.0
Cranwell (Lincs)	o.	o. o1f.	o2f o bcc p.	bccbcc	48	42	32	-	-	00
Felixstowe	o2f. o2f.	o2f. o1f.	o1f o	o1f o	48	36	41	-	-	0.1
Shoeburyness	bc c2fz	2fz ψ	bccq	q 1fe	48	38	39	-	-	0.3
Benson	o	o	o	o	49	34	31	-	-	*
S. Farnborough ...	o.o1f.	p5.o ψ	co bcc	bcc	49	34	32	-	-	0.0
London (Kew Obsy.) ...	w. o2f.	o.b bc2f ψ	bbc o2f	o2f co	49	37	37	-	-	0.0
Croydon	o2f. o1f.	o1f o1f.	o1f ψ ψ o1f	co1f	48	41	39	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:—
R = heavy rain.
rr = continuous moderate rain.
r_1r_1 = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·8
1	1– 3	0·8– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ⌅ Lunar halo ⊖ Glazed frost ⌁ Solar corona ⊕ Glazed roads ⌂ Lunar corona ψ Line Squall ⊗ Snow lying ⊠

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 16							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o	bcb.ob	50	40	35	-	0.0	72	84
City (Bunhill Row)	*	*	*	*	*	*	*	0.1	*	*
Westminster (St. James's Park)	*	*	*	50	40	35	-	0.0	73	80
Regent's Pk (Botanical Gdns)	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rainfall)	omc	bcc	*	50	40	35	-	*	74	82
Kensington Palace	o	o. co	*	49	39	37	-	*	76 (18h)	85
Hampstead Observatory ...	*	*	*	47	36	35	-	0.2	*	86

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total 274 Joules.

Average Rate. 7.7 Milliwatts.

Maximum Rate. 26

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

16th & 17th Feby 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	7.10 / 7.8	12.7 / 12.7	5.4 / 5.6
Greenwich	7.15 / 7.13	12.14 / 12.14	5.13 / 5.15
Wick ...	7.46 / 7.44	12.26 / 12.26	5.6 / 5.8
Valencia ...	7.57 / 7.55	12.25 / 12.22	3.53 / 3.52

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 15th 18 h. 5 m. to 16 6 h. 15 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12.	0	2	50	24
δ Ursae Minoris	12	0	2	15	19

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell rather heavily in the far North, 13mm at Lerwick and 6mm at Stornoway. There was an almost complete absence of bright sunshine except in Jersey, which was near to the centre of an anticyclone and experienced 7½ hours. The temperature rose well above 50° in parts of Eastern Scotland, reaching 56° at Aberdeen, and nowhere failed to reach 45°. The Westerly wind blew strongly at times in the North.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B21637 Thursday 17th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9	Barom. at M.S.L. mb.	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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
	13H. G.M.T. 16th														**18H. G.M.T. of 16th**													
Renfrew	1019.6	+3	WSW	3	o	52	85	8	1,250	StCu	10	-	-	*	1019.9	+2	WSW	4	o1f	49	85	7	2,000	StCu	10	–	–	*
Eskdalemuir	1019.6	+3	W	2	o	49	85	6	2000	St	10	-	-	*	1020.7	+3	W	3	o	46	85	6	3,000	StCu	9	–	–	*
Valencia (Cahirc'n)	1025.6	-1	-	0	o	50	75	8	4,200	St	7	a.St	3	5	1025.5	+1	W	1	o	48	85	8	3,000	StCu	5	a.St	5	4
Baldonnel	1024.3	-0	WSW	2	oSc	48	85	7	2000	StCu	10	-	-	*	1024.0	0	SW	3	o	48	85	8	2,000	StCu	10	–	–	*
Manchester (Alex. Pk.)	1021.8	0	WNW	3	o2f	49	92	4	1250	St	10	-	-	*	1022.4	+1	W	3	o2f	48	92	3	750	St	10	-	-	*
Ross on Wye	1022.7	0	W	3	cv	54	75	9	3000	StCu	3	a.Cu	5	*	1022.8	0	W	1	ov.	48	85	9	3,000	StCu	9	-	-	*
Falmouth	1026.5	-2	NW	1	o	50	75	7	-	StCu	10	-	-	*	1025.1	+1	NNW	2	o	47	75	8	-	StCu	9.	-	-	*
Calshot (Hants)	1023.6	-1	NW	3	o	50	75	8	3,000	StCu	10	-	-	1	1023.3	+1	-	0	b2f	48	85	5	4,200	StCu	2	a.Cu	1	0
Lympne (Folkestone)	1022.0	0	NW	4	o2f	49	85	4	2000	St	10	-	-	*	1021.8	+1	NW	3	o2f	48	85	4	2000	St	10	-	-	*
Aberdeen	1016.9	+2	NW	3	o	49	65	8	3000	StCu	9	-	-	2	1017.0	0	S	2	o2f	48	75	4	2,000	StCu	10	-	-	2
Howden	1018.9 (struck)	+2	WNW	35	•c	55 (52 struck)	75 (struck)	8	3000 (2000 struck)	Cu (struck)	36	CiSt	2	*	1020.6	+2	WSW	3	o1f	51	85	7	2,000	StCu	10	-	-	*
Cranwell (Lincs)	1020.9	+1	W	3	o2f	51	92	5	2000	StCu	10	-	-	*	1021.9	+2	WSW	1	o2f	49	92	4	2000	StCu	10	-	-	*
Felixstowe	1021.1	+1	WNW	4	o1f	51	85	6	2000	StCu	10	-	-	*	1021.2	+1	WNW	3	o2f	51	85	5	3,000	StCu	10	-	-	*
Shoeburyness	1021.9	+1	NW	3	o1f	51	85	7	3000	StCu	6	Cu	4	*	1021.3	0	-	0	o1f	51	85	7	2,000	StCu	9	a.St	1	*
Benson	1021.8	0	NW	2	o	51	75	7	-	StCu	10	-	-	*	1022.5	0	NW	1	o	50	85	6	-	StCu	10	-	-	*
S. Farnborough	1022.9	-0	WNW	2	o	52	75	7	3000	St	8	a.St	2	*	1022.5	+1	WNW	1	o	50	85	6	2,000	StCu	9	-	-	*
London (Kew Obsy.)	1022.4	-1	WNW	3	o1f	52	75	6	4,200	StCu	9	-	-	*	1022.2	0	NW	2	o2f	52	75	5	4,200	StCu	10	-	-	*
Croydon	1022.7	0	WNW	3	o1f	51	75	6	4,200	StCu	10	-	-	*	1022.7	+1	W	1	o3f	51	86	3	2000	St	10	-	-	*
	1H. G.M.T. of 17th														**7H. G.M.T. of 17th**													
Renfrew	1018.4	-1 (-2 struck)	WSW	5	o	48	85	7	3000	StCu	9				1015.5	-3	WSW	6	bcq	46	85	8	2000	St	6	-	-	
Eskdalemuir	1019.6		SW	3	o	44	85	6	-	StCu (St struck)	6 (7 struck)	a.St (A.St struck)	3 (2 struck)	*	1016.3	-1	W	3	o	46	75	6	2000	St	10	-	-	*
Valencia (Cahirc'n)	1026.2	0	WNW	2	o	47	*	*	*	*	*	*	*	2	1024.1	-1	-	0	c	44	92	8	3000	StCu	8	-	-	3
Baldonnel	1024.4	0	SSW	2	o2f	45	75	5	2000	St	10	-	-	*	1022.7 (1022.7 struck)	-1	SW (NNW struck)	3	o1f	44	85	7	3000	StCu	10	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.8	-2	W	3	o2f	45	85	4	2000	StCu	10	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.1	-1	W	1	ov	45	85	9	3000	StCu	10	-	-	*
Falmouth	1024.2	0	N	1	o	46	75	8	-	St	10	-	-	*	1023.2	-1	NNW	1	o	45	85	7	-	StCu	10	-	-	*
Calshot (Hants)	1023.2	0	-	0	o1f	45	92	6	2000	St	10	-	-	0	1022.1	-2	-	0	o2f	46	92	5	3000	StCu	10	-	-	0
Lympne (Folkestone)	1022.3	0	NW	3	o1f	45	92	6	3000	StCu	9	-	-	*	1021.1	0	NNW	3	o2f	44	92	4	1250	St	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.9	0	WSW	3	c	47	55	8	3000	StCu	8	-	-	2
Howden	1021.4	0	W	1	o1f	44	92	5	1250	St	7	A.St	3	*	1019.0	-1	SSW	1	o1f	43	85	6	2000	St	7	A.St	3	*
Cranwell (Lincs)	1022.5	0	W	1	o2f	46	97	4	2000	StCu	10	-	-	*	1021.2	-1	WSW	1	o2f	44	97	35	3000	StCu	10	-	-	*
Felixstowe	1021.8	0	WNW	2	o2f	48	92	4	3000	StCu	10	-	-	1	1020.9	0	WNW	2	o2f	47	85	4	2000	StCu	10	-	-	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.5	0	NW	1	c1fe	46	85	6	4200	Cu (StCu struck)	8	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.2	-1	-	0	o	43	97	6	-	StCu	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.9	-1	W	1	o1f	45	97	6	2000	St	10	-	-	*
London (M.O. at 1h.)	1023.4	-1	*	*	*	47	*	*	*	*	*	*	*	*	1021.6	-1	SW	1	o3f	46	92	3	2000	St	10	-	-	*
Croydon	1023.3	-1	NW	2	o2f	46	92	4	2000	St	10	-	-	*	1022.1	-1	NW	1	o2f	46	92	4	1250	St	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	Barom. at M.S.L. mb. (18H. G.M.T. of 16th)	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	Barometer at M.S.L. mb. (7H. G.M.T. of 17th)	Barometer Change in 3 hours	Temp. °F.	Temp. Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	Rainfall mm. (24 hours ended 7H. 17th)	Max. °F.	Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (16th)
Lerwick	1012.7	46	S	1	c	999.5	-7	45	+1	W	5	W	cmq	4	6	48	38	bc.	bc	omrcmpq	*
Stornoway	1014.7	47	SSW	5	oq	1012.5	+3	46	+3	W	6	-	oq	5	1	50	43	c.or.	op	opqopoq	1.0
Castlebay (Barra Is)	1018.0	48	WNW	4	o	1017.6	+1	47	-3	WNW	4	-	o	4	0.3	59	47	b.o	opm	opmco	0.2
Malin Head	1020.4	47	WSW	3	o1f.	1019.4	+1	47	-1	WSW	3	-	o1f	3	1	48	46	cm	cmp	om	1.8
Blacksod Point	1022.2	49	SW	3	o	1022.6	0	50	+2	SW	3	-	o	2	-	51	47	c.	o	o	*
Roche's Point	1026.0	47	-	0	o	1024.9	-1	45	-2	N	1	-	o	1	trace	50	45	o	o	oz	*
Birr Castle	1024.6	47	W	1	o	1023.4	*	43	-3	W	1	-	o	*	-	49	43	o	o	o	0.0
Donaghadee	1022.0	48	W	2	cm	1020.0	-2	45	-4	W	1	-	bcm	1	-	52	42	cmp	bcm	bcm	*
Liverpool (Bidston)	1022.5	46	W	3	o	1020.5	-2	46	-1	W	4	-	o	4	-	48	44	o.	o	o	0.0
Holyhead	1023.1	48	W	3	og	1021.7	-1	47	-1	W	3	-	og	2	-	50	46	o.c.o.	o.c.o	og	0.4
Pembroke (St. Ann's Head)	1024.8	48	WNW	1	o	1023.1	-1	46	-2	N	1	-	ov	1	-	50	45	o.	o	o	0.0
Scilly (St. Mary's)	1025.4	48	N	1	o	1022.5	-2	47	-1	ENE	2	-	o	3	-	52	46	ov	ov	ov	0.0
Jersey (St. Aubin)	1023.2	49	NNW	2	o	1021.4	-1	46	-2	E	2	-	o	2	-	51	46	o.bc.o	o	o	0.0
Portland Bill	1023.2	49	W	3	bc	1022.0	-2	48	+2	NE	3	-	o	4	-	52	46	o.c.o.	o.bc	bco	*
Dungeness	1021.4	49	W	1	o	1020.7	-1	44	0	N	1	-	c	2	-	53	43	bc.	c.o	oc.bcc	*
Wick	1014.2	45	-	0	omd	1006.7	-2	43	+2	WNW	6	-	bcq	4	2	48	40	bc.	bc.omd	pdcpbcq	*
Nairn	1015.5	49	-	0	c	1012.0	*	46	+2	W	2	-	cq	2	-	53	42	bcq.	bcq.c	cgq	2.3
Leith	1018.2	49	W	2	o	1013.5	0	47	+1	W	2	W	bc	2	-	56	46	cblc	bclo	ocqbc	*
Tynemouth	1019.3	51	W	2	bcm	1016.4	-3	47	-1	W	1	-	c2f	3	-	54	45	bcm.	bcm	bcm	*
Spurn Head	1019.6	47	NW	3	o	1018.0	-2	46	-1	WNW	4	-	cm	3	-	49	40	oq.	cq/m	omocm	*
Yarmouth (Gorleston)	1019.4	51	NNW	3	o	1020.0	-1	46	0	NW	2	-	om	0	-	53	46	bcm.om	omq.om	omgom	2.5
Clacton-on Sea	1020.6	51	W	2	o	1020.7	0	46	+1	NW	3	-	om	2	-	51	44	c.bc.og	og	ogcom	1.0
Nottingham	1022.1	50	W	2	cm	1020.9	*	45	-4	WSW	2	W	om	*	-	53	43	om.	o.cm	c	0.5

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

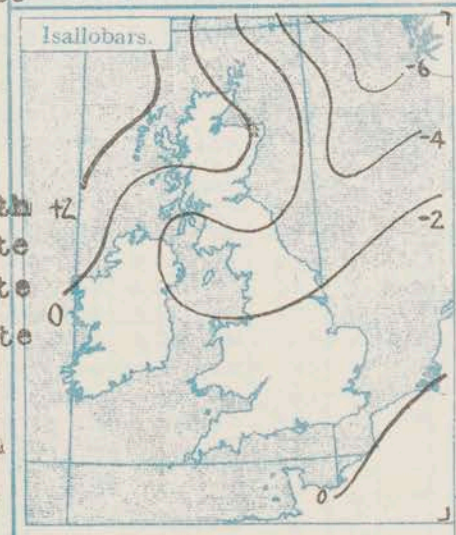
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 17.2.1921

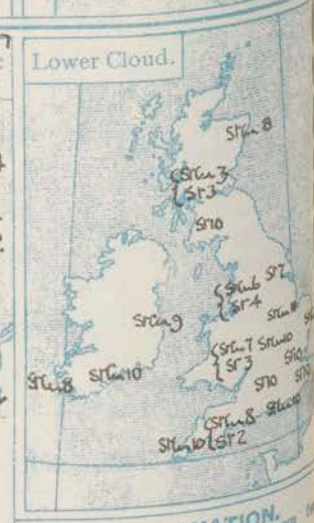
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Overcast, misty	Poor	Smooth
2. E. England	Overcast, misty	Poor	Smooth
3. E. Midlands	Overcast, misty	Poor	---
4. W. Midlands	Overcast	Good	---
5. S.W. England	Overcast	Good	Slight
6. South Wales	Overcast	V.Good	V.Smooth
7. North Wales	Dull, gloomy	Good	Smooth
8. N.W. England	Dull	Indiff.	Moderate
9. N. Midlands	Dull, misty	Indiff.	---
10. N.E. England	Fair to dull, some mist.	Fair	Slight
11. E. Scotland	Cloudy	Good	Smooth
12. S.W. Scotland	Fair to dull, squally	Good	Smooth
13. Isle of Man	Cloudy	Fair	V.Smooth
14. N.& N.W. Scotland	Fair to dull, squally	Fair	Moderate
15. Hebrides	Dull, squally	Fair	Moderate
16. Orkneys and Shetlands	Cloudy, squally	Indiff.	Moderate
17. N.W. Ireland	Dull	Good	Smooth
18. N.E. Ireland	Cloudy to dull, slight (mist	Good	Slight
19. S.E. Ireland	Dull	Good	Smooth
20. S.W. Ireland	Cloudy	Good	Slight

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	16th	0819	47	47
10	-	0750	44	49
3	-	0945	48	50
2	17th	0200	48	48
7	-	0307	48	48
4A	-	0419	45	47
12	-	0420	47	46



Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.
BAROMETER.—Isobars are drawn at 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 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.

GENERAL INFERENCE from observations received up to 9h.

A depression approaching Norway will cause fresh W. to NW. winds with passing showers in Scotland but further South there will be little wind and probably no rain for two days.

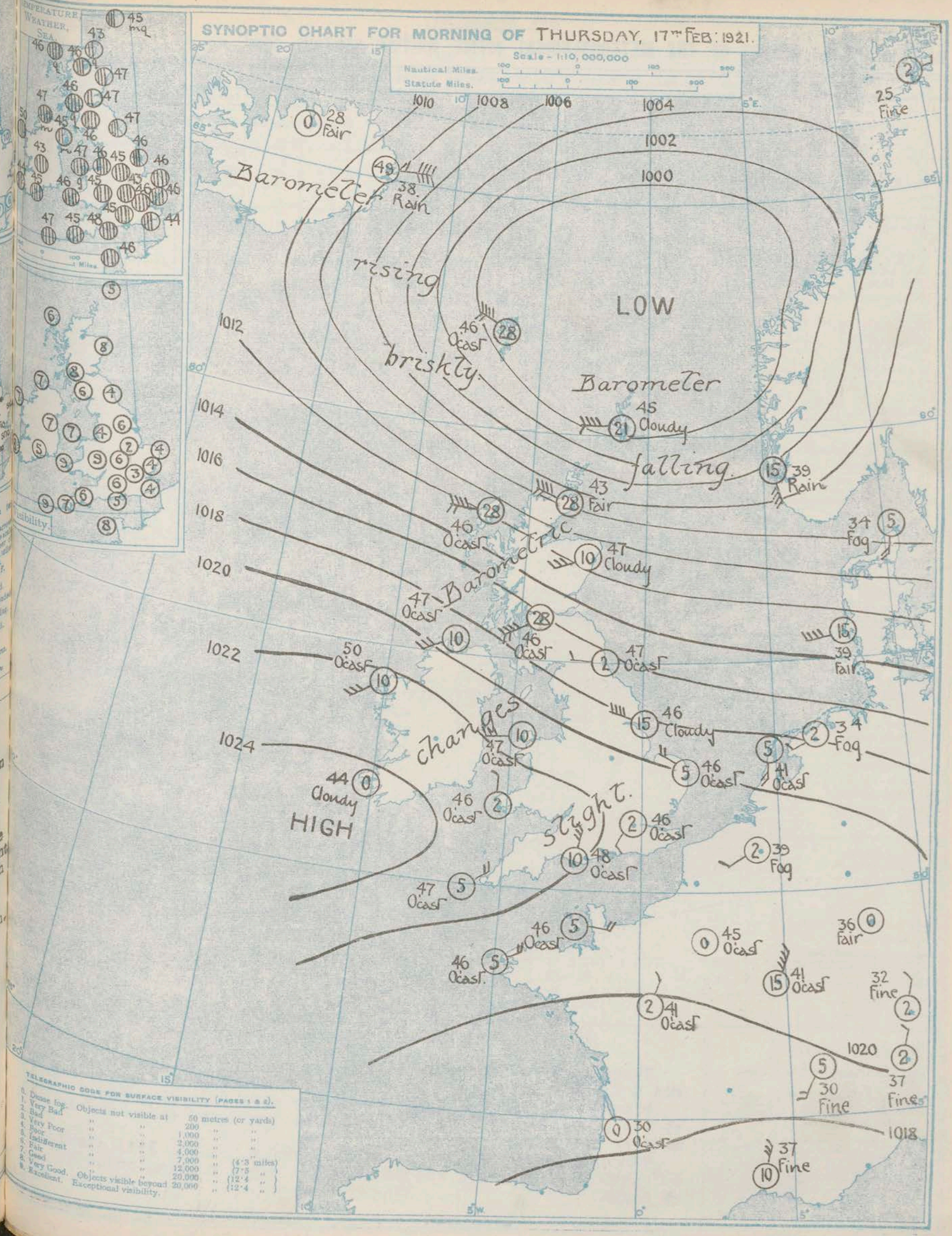
Temperature will remain on the whole unseasonably high.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday 17th February 1921
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light breezes mainly from N.W. and North; much low cloud at times, rain improbable; visibility varying from indifferent to fair or good; mild.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Fresh W. to N.W. wind, moderating; fair to dull; visibility mainly good; rather mild.
▼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	Fresh to strong W. to N.W. wind, moderating; fair to dull, some showers locally at first; visibility mainly good; rather mild.
19. S.E. Ireland 20. S.W. Ireland	Same as 1 - 6.

Further Outlook.

Over the Southern half of England rain is unlikely during the next two days, and the wind will be light but further North the outlook beyond 24 hours is very uncertain.

▼ South Cone hoisted 02.00h. 17th Feb.


SYNOPTIC CHART FOR MORNING OF THURSDAY, 17TH FEB: 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE
WEATHER.
SEA.
Visibility
LOW
HIGH
Barometer rising briskly.
Barometer falling.
Barometric changes slight.
1010
1008
1006
1004
1002
1000
1012
1014
1016
1018
1020
1022
1024
1020
1018
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

M.O. Form 2270

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 48

Thursday 17th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 15-16	Rainfall. Day. 9h-18h. 16	Sunshine. Sunrise to Sunset. 16
Scotland.	Banff	c.bc.c.	od.	50	43	0.2	0.2	0.9
England, N.E.	Harrogate	o.bo.	bo.	53	44	0.1	·	5.0
	Skegness	o.b.o	o.	54	45	–	–	1.7
England, E.	Lowestoft	bc.c.	c.o.	53	44	–	–	2.7
	Felixstowe	bo.	og.	52	43	–	–	3.2
	Southend-on-Sea	bc.	bc.cv.	52	40	–	–	1.5
England, S.E.	Tunbridge Wells	bc.b	b.bc.o	52	40	–	–	1.4
	Margate	c.o.	o	50	43	–	–	0.6
	Ramsgate	*	*	50	40	–	–	2.7
	Folkestone	bo.c.	c.o	52	40	–	–	1.7
	Hastings	bo.b.	bc.o	54	41	–	–	4.5
	Eastbourne	bo.	bcw	55	?43	–	–	4.3
	Brighton	c.bo.	bo.c.o.	54	40	–	–	3.1
	Worthing	bo.	bo.c	55	40	–	–	3.9
	Portsmouth (S'thsea)	x	x	53	43	–	–	2.8
	Bournemouth	*	*	54	39	–	–	3.8

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 15-16	Rainfall. Day. 9h-17h. 16	Sunshine. Sunrise to Sunset. 16
England, N.W.	Blackpool	o.c.	o	49	45	0.4	–	0.2
	Southport	o.c.o.	o	47	45	0.2	–	0.0
Midlands.	Leamington Spa							
	Bath	c.bc.b.	o.c.bc.	54	45	–	–	1.6
Wales.	Rhyl	c.	cv.	49	46	–	–	0.0
	Colwyn Bay	x	x	49	47	–	–	0.0
	Llandudno	x	x	49	46	–	–	0.0
	Aberystwyth	o.	o.	49	44	?	?	0.0
England, S.W.	Weymouth							
	Torquay	c.	b	55	45	–	–	4.5
	Paignton	o.c.	bc.b.o	56	43	trace	–	3.8
	Penzance	o.c.	c.	51	45	–	–	0.0
	Bude	c	bc	51	47	–	–	0.0
	Ilfracombe	c.	c.	50	44	–	–	0.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h.[1] 9	Weather. 18h-18h.[1] 9	Weather. 18h.[1] 9-18h.[1] 7	Weather. 18h-7h.[1] 7	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	c o/o	o1f	op.opd.	c o q	53	46	43	–	0.1	2.0
Eskdalemuir	o.	o	o	o	50	42	40	0.1	–	0.0
Valencia (Cahire'n)	o.	o	o	o c o	51	44	41	–	–	0.0
Baldonnel	o.o1f.	o.o1f.	o1f	o1f o2f	24 ~~55~~ 50	43	39	–	–	0.6
Manchester (Alex. Pk.)	δδ₀ o2f o2f	o o/o3/ p₀ o3f.	o3f	o3f o2f	49	45	42	0.1	–	*
Ross on Wye	o1 c. o1.	bc o/o bc o/f b bcv.	ov	ov	57	44	41	–	–	3.6
Falmouth	o.	o	o	o	51	44	41	–	–	0.0
Calshot (Hants)	o o.o bc c.o o/f.	c o bc c b3o	bbc2f c o2f o1f	o1f o2f	53	43	38	–	–	2.6
Lympne (Folkestone)	bc o.o o o1f o2f.	o3f.	o2f o1f	o1f o2f	50	41	42	–	–	1.4
Aberdeen	1f. bc.c	1f. o2f	o2f 2f c	o2f c o	51 ~~56~~	41	31	–	–	3.7
Howden	~~c o.~~ o1y	o.o1f.	o1f (1)	c o1f.	~~45~~	40	36	–	–	~~3.0~~ 3.9
Cranwell (Lincs)	o	c.o o2f.	o2f	o o2f	52	43	41	–	–	1.0
Felixstowe	c.o.o1f.	o.o3f.	o2f o	o2f	53	45	44	–	–	2.6
Shoeburyness	1f c.o.	o.	o	c o 1f c	52	42	43	–	–	1.3
Benson	o	o.	o	o	53	39	41	–	–	*
S. Farnborough	bc.c.c.o	o.	o2f	o2f	53	38	39	–	–	1.6
London (Kew Obsy.)	c.o bc c.o o1f	o1f o2f	o3f	o2f o3f	53	42	38	–	–	0.2
Croydon	c.o.o2f o1f 1f.	o1f. o2f. o1f.	o3f o2f	o2f o	52	43	41	–	–	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:–
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS– Solar halo ⊕ Lunar halo ◐ Aurora ☆ Rime ⌶ Glazed frost ⌒ Solar corona ◎ Glazed roads ⚲ Lunar corona ◎ Line Squall ⊘ Snow lying ▩

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 18 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 17							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o	obc.om	53	45	33	–	0.0	77	90
City (Bunhill Row)	*	*	*	*	*	*	*	0.1	*	*
Westminster (St. James's Park)	*	*	*	54	46	41	–	0.1	73	79
Regents Pk (Botanical Gds)	*	*	*	*	*	*	*	0.7	*	*
Camden Sq. (British Rainfall)	bc	bcc	*	55	46	38	–	*	74	74
Kensington Palace	cbc	c o	*	54	46	44	–	*	79 (18h)	86
Hampstead Observatory	*	*	*	53	43	36	–	1.3	*	87

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total 330 Joules.

Milliwatts.
Average Rate. 92
Maximum Rate. 24

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

17 & 18 Feby. 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.5	12.7	5.6
	7.6	12.7	5.8
Greenwich	7.13	12.14	5.15
	7.11	12.14	5.17
Wick	7.44	12.26	5.8
	7.41	12.26	5.11
Valencia	7.55	12.38	5.55
	7.53	12.38	5.57

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 12 h. 12 m. to 17 h. 15 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	12	0	1	55	16
δ Ursae Minoris	12	0	1	47	15

NOTES ON THE WEATHER OF YESTERDAY.

There was a little rain in the far North, 5 mm at Lerwick and 2 mm at Wick.

Bright sunshine was experienced for more than four hours at several places in the South, and at Harrogate there was as much as five hours.

Temperature was again unseasonably high, rising well above 50° nearly everywhere, and in very few cases falling below 40° at night.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21638 FRIDAY, 18th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 18H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	Humidity. %	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. of 17th														18H. G.M.T. of 17th													
Renfrew	1017.9	+1	W	4	c	48	65	8	2000	Cu	3	Ci St	5	*	1020.1	+4	WSW	3	bc	44	75	7	3000	StCu	1	Ci St	4	*
Eskdalemuir	1018.3	+2	W	2	bc	46	65	7	4200	Cu	3	Ci	3	*	1019.3	+3	NNW	5	b	42	75	7	3000	Cu	1	-	-	*
Valencia (Cahire'n)	10244	-1	NE	2	o	49	65	8	3000	StCu	10	-	-	4	10237	0	-	0	c	45	85	8	4,200	StCu	8	-	-	4
Baldonnel	1023.2	0	3/4 WN	3	o	48	85	8	3000	StCu	10	-	-	*	1022.8	+1	WSW	2	o	47	85	8	3000	StCu	8	a Cu	1	*
Manchester (Alex. Pk)	1020.3	0	W	4	oq	50	85	6	1250	StCu	10	-	-	*	1020.6	+1	WNW	4	czf	44	75	4	2000	StCu	5	a Cu	2	*
Ross on Wye	1022.0	0	WNW	3	bc	49	65	9	-	-	-	Ci	5	*	1021.0	0	WNW	3	bc	45	75	8	3000	StCu	2	a St	3	*
Falmouth	1022.6	-1	NE	1	o	52	75	7	-	StCu	10	-	-	*	1021.5	0	NNE	2	czf	49	85	4	-	StCu	5	a Cu	2	*
Calshot (Hants) *	1021.7	-1	NNW	1	o1f	51	75	7	4200	StCu	10	-	-	0	1020.7	-1	WNW	3	b1f	44	85	6	-	-	-	a Cu	1	1
Lympne (Folkestone)	1021.0	0	NNW	4	o2f	49	75	4	4200	StCu	10	-	-	*	1020.1	0	NW	1	o1f	44	85	6	4,200	StCu	10	-	-	*
Aberdeen	1013.9	+3	WNW	5	bc	49	55	8	3000	StCu	6	-	-	3	1017.3	+5	WNW	5	bq	46	75	8	3,000	StCu	2	-	-	2
Howden	1017.5	-1	NNW	5	c	51	75	8	2000	StCu	8	-	-	*	1018.8	+2	W	2	b	40	92	8	3,000	St	1	a St	2	*
Cranwell (Lincs)	1019.0	-4	W	4	bc	51	75	5	4200	Cu	4	~~Ci~~ Ast	1	*	1019.9	+3	NW	1	o	43	92	5	3000	StCu	7	a Cu	2	*
Felixstowe	1020.2	-1	WNW	4	c1f	48	75	6	3000	StCu	8	-	-	1	1019.4	0	W	3	o2f	48	75	5	3000	StCu	10	-	-	*
Shoeburyness	1021.3	0	NW	1	o1fe	49	65	7	3000	StCu	7	A St	3	*	1019.7	0	WNW	1	o2fe	46	75	5	4,200	StCu	8	a Cu	2	*
Benson	1021.1	-1	NNW	3	o	48	65	8	-	StCu	10	-	-	*	1020.4	-1	-	0	bc	43	75	7	-	-	-	a Cu	5	*
S. Farnborough	1021.6	-1	WNW	3	o	52	65	7	4200	StCu	4	A St	6	*	1020.4	-1	WNW	1	bc	43	85	6	-	St	1	a Cu	4	*
London (Kew Obsy.)	1021.4	-1	NW	3	o1f	51	65	7	4200	StCu	4	A Cu	6	*	1020.0	0	W	1	czf	47	75	4	3000	StCu	2	a Cu	5	*
Croydon	1021.6	0	NW	3	o1f	50	65	6	3000	StCu	10	-	-	*	1020.5	0	-	0	o2f	44	75	4	2,000	StCu	5	a Cu	4	*
	1H. G.M.T. of 18th														7H. G.M.T. of 18th													
Renfrew	1024.0	+5	WSW	1	b	33	85	6	-	-	-	-	-	*	1026.1	+2	-	0	b3f	29	97	2	-	-	-	-	-	
Eskdalemuir	1024.8	+4	-	0	b	26	92	8	-	-	-	-	-	*	1028.0	+3	-	0	b	26	85	7	-	-	-	-	-	*
Valencia (Cahire'n)	1024.9	0	ESE	1	bc	46	*	*	*	*	*	*	*	1	1024.2	+1	E	2	o	46	95	8	5700	StCu	10	-	-	0
Baldonnel	1025.3	+2	-	0	b2f	33	92	5	-	-	-	-	-	*	1025.3	+1	-	0	o2f	36	97	5	3000	StCu	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.6	+3	S	1	o8f	31	92	0	<500	St	10	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.5	+2	-	0	bmx	31	97	6	700	St	1	-	-	*
Falmouth	1023.1	+1	NNW	1	c	38	92	8	-	-	-	A Cu	7	*	1023.1	0	NNW	2	o	40	92	7	-	StCu	10	-	-	*
Calshot (Hants)	1022.8	+2	NNW	1	o1f	43	85	6	4200	St	10	-	-	0	1023.6	+1	NNE	1	o2f	40	92	5	3000	StCu	10	-	-	1
Lympne (Folkestone e.)	1021.8	+1	NNW	2	o1f	42	85	6	2000	StCu	9	-		*	1023.5	+2	N	2	b3f	36	97	3	5700	StCu	1	A St	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.1	+3	NNW	3	o	42	85	8	2000	StCu	10	-	-	2
Howden	1022.4	+2	-	0	bx	30	97	7	-	-	-	-	-	*	1025.0	+2	-	0	o2fx	34	92	6	2000	StCu	6	A St	4	*
Cranwell (Lincs)	1020.3	+3	NNW	1	b	36	97	4	-	-	-	-	-	*	1025.1	+2	NNW	1	o2f	37	97	4	4200	StCu	10	-	-	*
Felixstowe	1022.0	+3	NW	2	b2f	40	97	5	-	-	-	Ci	1	0	1023.7	+3	NNW	2	o2f	39	97	5	3000	StCu	10	-	-	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.4	+2	NW	1	b2fe	35	85	4	3700	StCu	2	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.8	+2	-	0	b1fex	26	97	3	-	-	-	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.4	+3	-	0	b4fex	29	97	2	-	-	-	Ci Cu	1	*
London (M.O. at 1H.)	1022.6	+2	*	*	*	+3	*	*	*	*	*	*	*	*	1024.0	+2	-	0	bcmx	36	97	3	4200	St	2	A Cu	4	*
Croydon	1022.9	+2	NNW	1	o2f	40	85	4	3000	StCu	10	-	-	*	1024.7	+2	-	0	bx2f	31	97	3	-	-	-	A Cu	3	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 17th					7H. G.M.T. of 18th									24 HOURS ENDED 7H. 18th						17th
Lerwick	1010.6	+3	WNW	6	om	1024.2	+5	39	-6	N	5	-	c	4	1	47	37	om	om	cm.c	8
Stornoway	1020.3	+6	NW	3	o	1026.7	+2	42	-4	-	0	-	o	0	trace	47	42	o.	o	oc.o	0.0
Castlebay (Barra Is)	1021.9	+6	SSW	2	o	1026.5	+1	45	-2	NNE	2	-	o	2	-	48	44	o.c.o	o	o	1.2
Malin Head	1022.1	+6	NW	3	om	1023.7	0	44	-3	NNE	2	NE	o	3	-	50	44	om.	om	om.o	1.3
Blacksod Point	1023.2	+8	NNE	2	o	1024.5	0	44	-6	E	1	-	o	2	-	52	44	bc	c.	c	*
Roche's Point	1023.7	+8	-	0	o	1025.1	0	39	-6	E	1	-	bc	1	0.1	52	39	oz.o.	oz.o.	o.bc	*
Birr Castle	1023.1	+9	WSW	1	c	1025.4	*	33	-10	SW	1	-	o	*	-	50	30	o	c	o	1.3
Donaghadee	1021.6	+6	W	2	cm	1024.9	+1	44	-1	NNE	2	-	bm	2	-	51	43	bcm.	cmq	bcm	*
Liverpool (Bidston)	1021.0	+5	WNW	3	o	1024.9	+2	35	-11	NW	1	-	f	1	-	49	35	bc.	bc.o	cof	1.9
Holyhead	1021.5	+6	NW	3	c	1024.3	+1	41	-6	E	2	-	b	4	-	52	40	o.c.bc.	bc.c.	cbc.bc.bw	2.4
Pembroke (St. Ann's Head)	1022.6	+5	NW	2	cV	1024.1	0	41	-5	NE	1	-	o	1	-	49	40	oV.	oV	cVc	0.0
Scilly (St. Mary's)	1022.0	+8	ENE	3	c	1022.9	0	44	-3	E	2	-	b	3	-	51	43	oV.	oV.c	bc.b	0.0
Jersey (St. Aubin)	1020.1	+8	N	2	c	1022.2	0	44	-2	ENE	2	-	bc	1	-	52	40	o.	c.bc.o.	cbw bc	1.3
Portland Bill	1021.0	+9	NW	2	bc	1022.0	0	44	-4	NNE	4	-	bc	4	-	49	39	o.	bc	bc	*
Dungeness	1019.8	+5	NNW	1	bc	1022.4	+1	36	-8	NNW	2	-	b	2	-	52	35	c.	c.bc	cbc bx	*
Wick	1015.0	+5	NW	5	omq	1025.7	+4	41	-2	N	4	-	om	3	-	48	40	bc.oq/p.	omdq/	omq	*
Nairn	1018.0	+5	W	3	c	1026.7	*	41	-5	-	0	-	cq	1	-	49	40	cq/q2	cq/q	cq	2.0
Leith	1015.6	+5	W	2	bc	1025.5	+2	33	-14	S	1	-	bx	1	-	52	33	bc b	b	bcbm.b	*
Tynemouth	1018.0	+7	WNW	2	b2f	1024.8	+1	39	-8	NW	2	-	o2f	2	-	52	38	bm.	bcm	bmbcm	*
Spurn Head	1018.3	+6	NW	3	cm	1023.4	+1	38	-8	NNW	3	-	bmw	3	-	48	36	bm.	bcm	bm	*
Yarmouth (Gor Cotes)	1018.4	+9	NW	2	c	1022.9	+1	41	-5	NW	1	-	cm	1	-	53	37	cm.boq	bo.cm	cmbbcmcm	1.0
Clacton-on-Sea	1019.4	+7	WNW	3	o	1023.1	+3	38	-8	NW	3	W	cm	2	-	50	37	cm	o.c.o	ocm	0.8
Nottingham	1019.9	+6	WNW	3	c	1025.0	*	37	-8	W	1	W	om	*	-	53	33	o.cm	b bcm	bc b	3.3

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

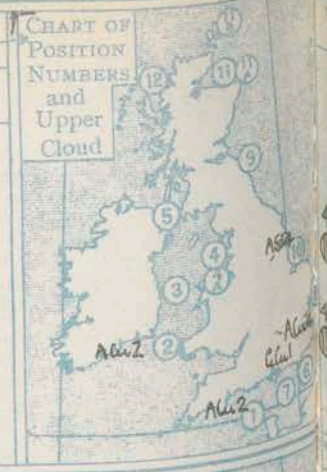
M.O FORM 2370

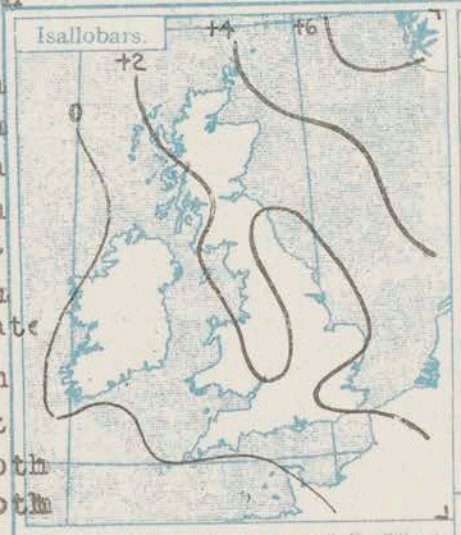
SUMMARY OF CONDITIONS AT 7 h. G.M.T.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to fine, misty, frost	Poor	Smooth
2. E. England	Overcast, misty.	Indiff.	V.Smooth
3. E. Midlands	Cloudy, Misty	Poor	--
4. W. Midlands	Fair, misty	Indiff	--
5. S.W. England	Fair to cloudy	Good	Slight
6. South Wales	Cloudy	Good	V.Smooth
7. North Wales	Fine, local mist	Good	Slight
8. N.W. England	Overcast, thick fog	Poor	V.Smooth
9. N. Midlands	Overcast, misty (locally	Poor	---
10. N.E. England	Overcast, misty	Indiff.	Smooth
11. E. Scotland	Fine to dull	V.Good	Smooth
12. S.W. Scotland	Fine, local fog.	Fair	Smooth
13. Isle of Man	Fair	Good	Smooth
14. N.& N.W. Scotland	Dull, misty	Fair	Slight
15. Hebrides	Dull	Fair	Smooth
16. Orkneys and Shetlands	Cloudy	Fair	Moderate
17. N.W. Ireland	Dull	Fair	Smooth
18. N.E. Ireland	Dull, locally fine	Good	Slight
19. S.E. Ireland	Fair to dull, local mist	Fair	V.Smooth
20. S.W. Ireland	Fair to dull	Good	V.Smooth

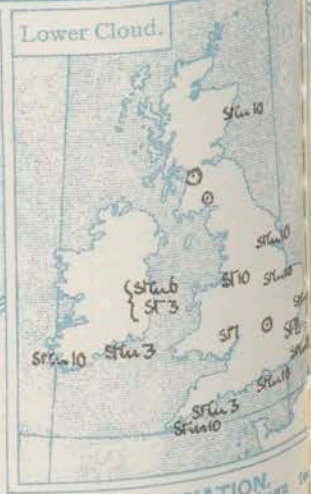
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	17	0839	46	47
3	"	1015	48	49
6	"	1430	47	49
8	"	1551	44	48
2	18	0200	49	48
7	"	0310	53	48





Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.

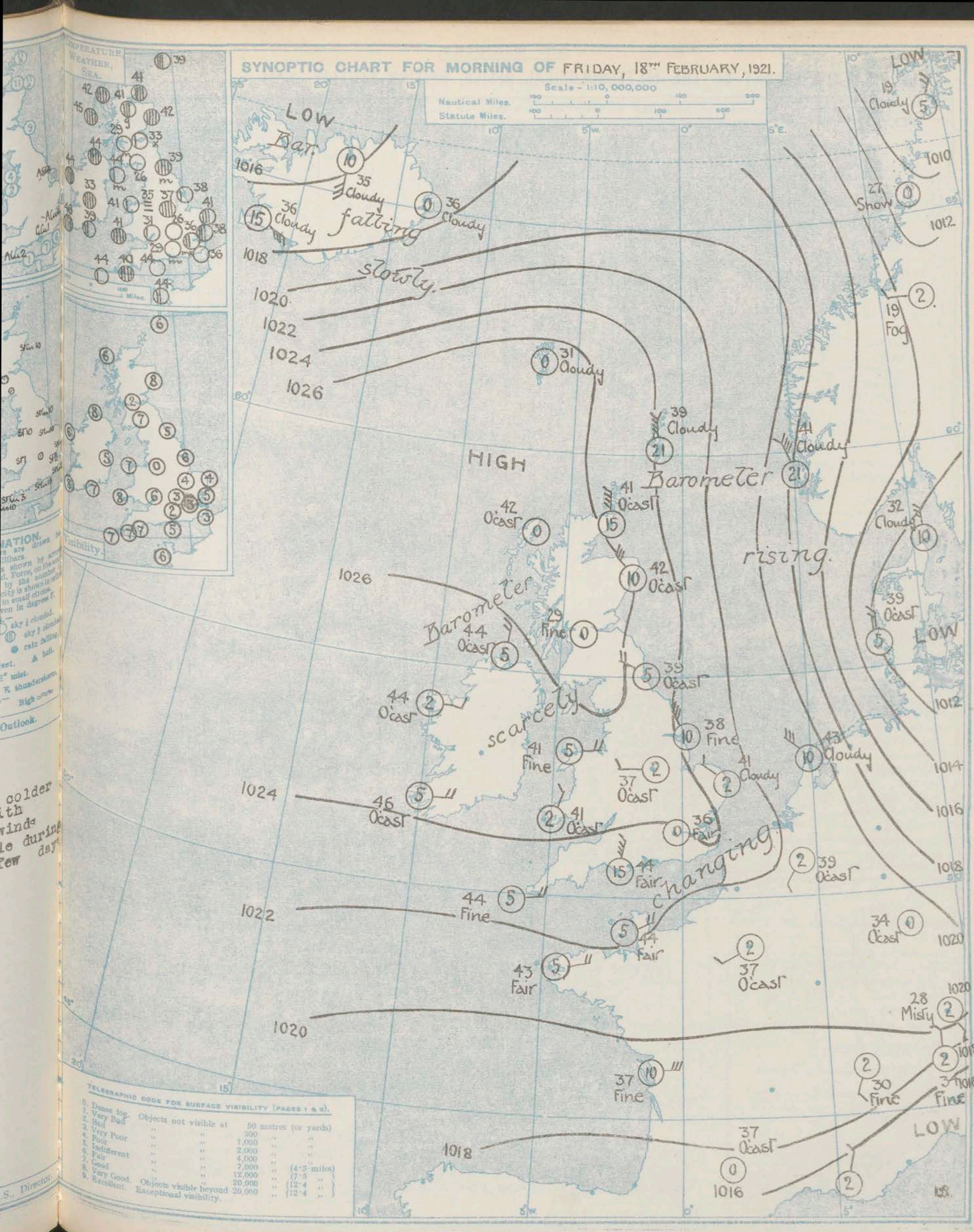
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures to small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. A hail. fog. mist. T thunder. K thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h

The anticyclone North of Scotland will move East and cause Easterly winds generally with fair to fine weather.
There will be frost, and in some places fog, at night.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday 18th February 1921	Further Outlook.
1. S.E. England	Light to moderate Easterly winds; some low cloud at times but considerable bright intervals; fog locally and frost at night; temperature rising to between 40° and 50° during the day.	Fair but colder weather with Easterly winds is probable during the next few days
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. 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		

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 10.00 E.V.N. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF FRIDAY, 18TH FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar.
falling
slowly.
HIGH
Barometer
rising.
Barometer
scarcely
changing.
LOW
LOW
1016
1018
1020
1022
1024
1026
1010
1012
1014
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 49

FRIDAY 18th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 16-17	Rainfall. Day. 9h-18h. 17	Sunshine. Sunrise to Sunset. 17
Scotland.	Banff	bc c	c o	49	44	0·4	-	2·2
England, N.E.	Harrogate	bc.o.bc	bc.b	51	41	-	-	6·7
	Skegness	o bc	bc o	53	41	-	-	3·3
England, E.	Lowestoft	o.c.bcc	c.o	54	45	-	-	1·5
	Felixstowe	bcz	om	51	44	-	-	1·2
	Southend-on-Sea	o.o	bc.c	53	44	-	-	2·4
England, S.E.	Tunbridge Wells	o	c.bc.b	51	43	-	-	1·7
	Margate	o	o.c	49	44	-	-	0·6
	Ramsgate	*	*	49	40	-	-	0·8
	Folkestone	o	o	51	46	-	-	0·0
	Hastings	o	o.bc	52	46	-	-	1·1
	Eastbourne	o	o.o.bc	52	46	-	-	0·6
	Brighton	o	o.c.b	53	45	-	-	0·9
	Worthing	o.c	bc.b	53	47	-	-	1·3
	Portsmouth (S'thses)	*	*	53	43	-	-	1·1
	Bournemouth	*	*	55	45	-	-	1·5

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 16-17	Rainfall. Day. 9h-18h. 17	Sunshine. Sunrise to Sunset. 17
England, N.W.	Blackpool	c.bc.	c	49	44	-	-	3·7
	Southport	o.c.bc.	bc.c.bc	48	44	-	-	2·1
Midlands.	Leamington Spa	c.bc	b.o	53	43	-	-	2·6
	Bath	o	c.bc.b	52	44	-	-	2·8
Wales.	Rhyl	c bc	bc.c.	50	44	-	-	1·3
	Colwyn Bay	*	*	50	45	-	-	0·8
	Llandudno							
	Aberystwyth	bc	bc	48	43	-	-	0·3
England, S.W.	Weymouth	o.c	c.b	54	44	-	-	0·2
	Torquay	c	bc.	51	46	-	-	0·0
	Paignton	o.c.o	bcm	53	44	-	-	0·0
	Penzance	o.c	o.c	52	46	-	-	0·0
	Bude	c.	bc	52	44	-	-	0·8
	Ilfracombe	o.c.	c.bc.	51	45	-	-	1·8

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 17	Weather. 13h-18h 17	Weather. 18h 17-1h 18	Weather. 1h-7h 18	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. † Day. 7h-18h. mm.	Rainfall. † Night. 18h-7h. mm.	Sun. Hours.
Renfrew	bccq	bc.cz	bbc b	bxf4-5f	51	28	20	-	-	3·9
Eskdalemuir	bcc	bc.o.bcq	qb b	b	48	24	19	-	-	~~3·0~~ 3·2
Valencia (Cahirc'n)	coo	V c.o	co.o	o	50	44	43	-	-	0·0
Baldonnel	o	c.o.c.o	cobbc2f	co2f	51	30	22	-	-	0·3
Manchester (Alex. Pk)	o2fo1q	oq.c o2f	b3f	b3f.o6-8f	52	~~29~~	22	-	trace	*
Ross on Wye	ovcobcc	bc.c.v.bo	bbcwbc	bbcb1fx	54	31	24	-	-	2·8
Falmouth	o	o1f.o2f	bcc	bo	52	37	26	-	-	0·2
Calshot (Hants)	o2fo1f	o1f.o.o.bcc	bbc1fco1f	o1f o2f	52	38	31	-	-	~~0·0~~
Lympne (Folkestone)	o1fo2f	c.o.bc.c2f	o1f.	o1fbcc3fbbc	49	35	30	-	-	1·2
Aberdeen	bccq	bc. cq	bccq	bcc.co	49	41	40	-	-	1·5
Howden	qbcc	q bc.c.	bbcx	o3fx	~~35~~ 53	28	18	-	-	6·1
Cranwell (Lincs)	obcc	c.o o2f	co bbc	b bcc	52	35	32	-	-	3·8
Felixstowe	o2fo1f	c o1f	o1fbo	bcc o2f	51	36	33	-	-	1·4
Shoeburyness	co1fe	c. o2fz	co2fe	bcc 2fe	53	34	31	-	-	2·4
Benson	o	b	bbc	bbcx	51	26	20	-	-	*
S. Farnborough	o1fo	o.b.bc.	co bcc	4-5fe	52	29	24	-	-	2·5
London (Kew Obsy.)	wo3f2fo1f	c.o.bbobc.	o	x.3f	52	36	23	-	-	2·8
Croydon	o2fo1f	b.o1f.b.o2f	o2fo	co2fbccbbc 3fx	51	31	24	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·4
3	8-12	3·5- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora △ Rime ⌶ Glazed frost ⌣ Glazed roads ⌓ Line Squall ⊟ Solar halo ⊕ Lunar halo ◐ Solar corona ◎ Lunar corona ◎ Snow lying ⊠

LONDON. OBSERVATIONS.	Morning.	Weather. Afternoon.	Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity %. 15 h. G.M.T.	Humidity %. 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 18							Yesterday.		To-day.
Greenwich (Royal Observatory)	om	obbc	o bmx	51	32	24	-	1.2	67	95
City (Bunhill Row)	*	*	*	*	*	*	*	1.1	*	*
Westminster (St. James's Park)	*	*	*	52	38	30	-	1.8	67	84
Regents Pk. (Botanical Gdn)	*	*	*	*	*	*	*	1.6	*	*
Camden Sq. (British Rainfall)	cbc	obc b	*	53	34	28	-	*	60	93
Kensington Palace	c.b	b.bc o	*	52	35	27	-	*	71 (18h)	91
Hampstead Observatory	*	*	*	51	37	30	-	2.2	*	92

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total 405 Joules.

Milliwatts.
Average Rate. 11.2
Maximum Rate. 26

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

18 & 19 Feby 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.6	12.7	5.4
	7.4	12.7	5.10
Greenwich	7.11	12.14	5.17
	7.9	12.14	5.19
Wick	7.41	12.26	5.11
	7.38	12.26	5.14
Valencia	7.53	12.38	5.27
	7.51	12.36	5.25

Photographic Record of Pole Star (Polaris) and of 8 Ursae Minoris at Greenwich Observatory.

Exposure from 17 h. 18 m. to 18 h. 6 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris.	12	0	4	55	41
8 Ursae Minoris.	12	0	4	37	38

NOTES ON THE WEATHER OF YESTERDAY.

The temperature again rose above 50° nearly everywhere, but there was frost at night. At Eskdalemuir the minimum was 24° and at Benson 26°.

The records of bright sunshine were on the whole rather poor, but at Harrogate and Howden (Yorks) over six hours were registered. A little rain (1 mm) fell at Lerwick, but elsewhere there was none.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21629 SATURDAY, 19th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	Humidity. %	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 18th														18H. G.M.T. of 18th													
Renfrew	1028.9	+1	-	0	b2f	38	85	4	-	-	-	-	-	*	1019.4	+2	NE	1	b	40	85	3	-	-	-	-	-	*
Eskdalemuir ...	1029.0	+2	NE	2	0	40	85	7	2000	St	10	-	-	*	1029.1	+1	E	3	0	39	75	6	2000	St	10	-	-	*
Valencia (Cahire'n)	1024.6	0	ESE	3	bc	51	65	8	3000	StCu	4	Cu	2	3	1024.4	+1	SE	3	c	47	75	8	4,200	StCu	8	-	-	3
Baldonnel ...	1026.5	0	ENE	2	o1f	46	75	6	2000	St	10	-	-	*	1027.2	+1	E	2	b3f	41	85	5	1,250	St	2	-	-	*
Manchester (Alex. Pk)	1027.9	+1	ENE	4	b	45	75	4	2000	Cu	1	aCu	1	*	1028.4	0	NE	2	o3f	44	85	3	2000	St	10	-	-	*
Ross on Wye ...	1026.0	0	ENE	3	c	47	75	5	-	-	-	aCu	8	*	1027.1	+1	ENE	3	o1f	43	75	6	3000	StCu	10	-	-	*
Falmouth	1024.5	+1	E	3	o1f	47	75	6	-	StCu	9	-	-	*	1024.6	0	E	2	o1f	47	75	6	-	StCu	10	-	-	*
Calshot (Hants) * ...	1025.6	+1	NE	3	o1f	49	75	7	3000	StCu	9	-	-	1	1026.6	+1	NE	3	o2f	46	85	5	3,000	StCu	10	-	-	8
Lympne (Folkestone)	1025.0	+1	N	3	o2f	45	85	5	4,200	StCu	10	-	-	*	1026.1	+1	NE	4	o	42	85	8	3000	StCu	10	-	-	*
Aberdeen	1028.9	+2	N	2	o	43	65	8	2000	StCu	9	-	-	2	1029.5	+1	-	0	b1f	37	85	6	-	-	-	aSt	2	2
Howden	1027.6	+1	N	3	o	44	85	6	2000	StCu	6	aSc	4	*	1027.5	+3	NNE	2	o	42	92	6	2000	StCu	10	-	-	*
Cranwell (Lincs) ...	1027.1	+1	N	1	o1f	44	92	6	2000	StCu	10	-	-	*	1028.1	+2	NE	1	o1f	43	97	6	2,000	StCu	10	-	-	*
Felixstowe ...	1025.9	+1	N	3	o	46	85	7	3000	StCu	10	-	-	*	1027.1	+1	N	3	o1f	45	85	6	2000	StCu	10	-	-	*
Shoeburyness ...	1025.7	+2	NNW	2	o1fc	47	75	6	3000	StCu	9	-	-	*	1026.0	+1	-	0	o	44	75	7	3000	StCu	7	aSt	3	*
Benson	1025.4	+1	NE	3	o	46	75	5	-	StCu	9	-	-	*	1027.0	0	NE	2	o	43	75	5	-	St	10	-	-	*
S. Farnborough	1025.6	+1	ENE	1	o3f	46	75	3	3000	StCu	10	-	-	*	1026.5	+1	NE	2	o	48	75	7	3000	StCu	10	-	-	*
London (Kew Obsy.)	1026.1	0	NNE	2	o2f	47	75	4	4,200	StCu	10	-	-	*	1026.9	+1	N	3	o2f	46	75	4	3000	StCu	10	-	-	*
Croydon	1026.4	+1	NNE	3	o3f	46	75	3	4,200	StCu	10	-	-	*	1027.1	+2	NNE	3	o3f	45	65	3	3000	StCu	10	-	-	*
	1H. G.M.T. of 19th														7H. G.M.T. of 19th													
Renfrew ...	1030.2	+2	-	0	o4f	37	92	2	2000	StCu	10	-	-	*	1030.0	0	-	0	o4f	35	97	2	2000	StCu	10	-	-	
Eskdalemuir ...	1030.5	0	-	0	o	36	85	7	2000	St	10	-	-	*	1030.8	0	-	0	om	35	85	5	2000	St	10	-	-	*
Valencia (Cahire'n)	1024.8	0	E	1	o	46	*	*	*	*	*	*	*	1	1024.2	0	ESE	3	o	47	75	6	4200	St	10	-	-	0
Baldonnel ...	1027.7	0	ESE	2	b4f	39	92	4	-	-	-	-	-	*	1027.5	0	S	1	o2f	42	95	4	1250	St	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.5	0	ENE	2	o3f	40	85	3	2000	StCu	10	-	-	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	0	ENE	2	o	40	85	8	3000	StCu	10	-	-	*
Falmouth ...	1025.5	+1	E	5	o	47	75	7	-	StCu	9	-	-	*	1025.3	0	E	4	o	45	75	7	-	StCu	10	-	-	*
Calshot (Hants)...	1027.2	0	NE	3	o1f	44	75	6	4200	StCu	10	-	-	2	1027.7	+1	NE	3	o	42	85	8	3000	StCu	10	-	-	2
Lympne (Folkestone c.)	1026.9	0	NE	3	od2f	39	97	5	4200 1250	Sr	10	-	-	*	1027.6	+1	NE	3	o	38	97	8	780	StCu	10	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.1	0	SSW	2	bc3fex	35	85	2	-	-	-	ACu	4	2
Howden ...	1029.6	+1	-	0	od	39	97	5	1250	Nb	10	-	-	*	1029.6	0	-	0	o1f	39	85	7	2000	St	7	ASt	3	*
Cranwell (Lincs)	1029.2	+1	ENE	1	od	40	97	5	750	Nb	10	-	-	*	1028.9	+1	ENE	1	o2f	37	97	5	1250	St	10	-	-	*
Felixstowe ..	1028.9	+2	N	2	o	42 40	97	6	2000	Nb	10	-	-	0	1029.1	+2	N	2	od	40	97	4	750	StCu	10	-	-	1
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	0	NNE	1	o	40	87	7	2000	StCu	8	ACu	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.8	+1	NE	3	o	39	92	7	-	StCu	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.2	+1	NE	2	o1f	39	92	6	1250	StCu	10	-	-	*
London (M.O. at 1H.)	1028.0	+1	*	*	*	43	*	*	*	*	*	*	*	*	1028.6	+1	NE	3	od	40	85	4	3000	Nb	6	ASt	4	*
Croydon ...	1028.4	+1	ENE	3	o2f	41	85	5	2000	St	10	-	-	*	1028.4	0	NE	3	od	39	97	3	750	St	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 18th					7H. G.M.T. of 19th									24 HOURS ENDED 7H. 19th						18th
Lerwick																					*
Stornoway ...	1028.8	40	-	0	c	1027.0	-1	40	+1	-	0	-	c	0	-	42	36	bc.	c	bc.8	*
Castlebay (Barra Is)	1027.6	41	-	0	o	1027.1	0	44	+2	SW	2	-	o	1	-	49	36	c.	o	oz o	3.7
Malin Head ...	1027.3	46	E	4	bc	1027.0	0	46	+1	SSW	4	-	o	4	-	46	44	o.c.	c.bc	bco	5.2
Blacksod Point	1026.7	42	SSE	2	bc	1026.5	0	42	-2	ESE	2	-	o2f	2	-	48	40	bc.	bcm	om	4.3
Roche's Point...	1025.2	44	SE	2	bc	1023.2	-1	44	0	SE	2	-	c	3	-	44	41	o.	o	bc.bcc	*
Birr Castle ...	1025.8	45	E	2	o	1025.8	0	47	+8	SE	3	-	o	3	-	47	39	bc.o.	o	o	*
Donaghadee ...	1026.1	44	E	1	o	1026.4	*	43	+10	ESE	1	-	o	*	-	44	33	o	cfo	cfo	0.0
Liverpool (Bidston)	1027.5	45	SE	3	bm	1028.5	0	43	-1	WNW	1	-	om	1	-	49	44	bcm.	bcm	bcm	*
Holyhead ...	1028.1	42	E	2	f	1029.3	+1	41	+6	E	1	-	om	1	-	47	35	o.bc	bmf	om	3.9
Pembroke (St. Ann's Head)	1026.7	45	ENE	5	o2fg	1028.3	0	43	+2	SE	2	-	o1fg	0	-	53	38	b.bc.bz	bz.cm	obogobog	7.5
Scilly (St. Mary's)	1026.0	45	E	3	b1f.	1027.5	0	43	+2	E	3	-	o	2	-	49	40	c.b	b.	b.bo	4.9
Jersey (St. Aubin)	1023.5	48	E	4	o1f	1024.7	0	47	+3	E	3	-	o	4	-	51	44	b.bc.o	om	om	2.6
Portland Bill ...	1023.1	47	E	3	b	1024.5	0	43	-1	E	4	-	o	3	-	50	43	bc.o.	o.c.b	co	0.3
Dungeness ...	1023.0	47	E	4	c	1026.2	0	46	+2	ENE	5	-	o	5	-	50	39	bc.c.	c	cbc.co	*
Wick	1025.1	45	E	3	c	1026.9	+1	41	+5	ENE	2	-	c	3	0.3	49	36	cz.	c.o.c	ccpc	*
Nairn	1028.5	39	S	1	bc	1027.2	0	34	-7	-	0	-	bc	2	-	47	31	om.	o.bc	bc	*
Leith	1028.4	38	E	1	bc	1028.4	*	35	-6	-	0	-	c	1	-	44	30	c.bc.	bc	cgx	2.9
Tynemouth ...	1029.2	40	SE	1	bc	1029.4	0	38	+5	SE	1	-	o	1	-	46	33	bmb	bzbc	beco	*
Spurn Head ...	1028.8	43	NNE	2	o	1030.0	0	40	+1	-	0	-	o1f	3	-	45	38	cm.	o	o.om	*
Yarmouth (Nor. Cliffe)	1028.4	43	NNW	3	cp	1029.5	0	41	+3	NE	3	-	ov	2	0.2	45	37	bc.	bc	cpov	*
Clacton-on-Sea.	1026.2	42	NE	4	o	1029.3	+2	40	-1	ENE	3	-	ov	1	1	47	39	cmbc	bc.ovv.	mdovdco	3.1
Nottingham ...	1026.3	45	N	1	o	1028.3	+2	41	+3	NE	3	-	c	3	*	47	38	cm.	cm.o	opc	0.1
	1028.2	44	NNE	2	o	1029.6	*	39	+2	ENE	2	E	od	5	0.2	45	37	o.cm.	om	oc	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

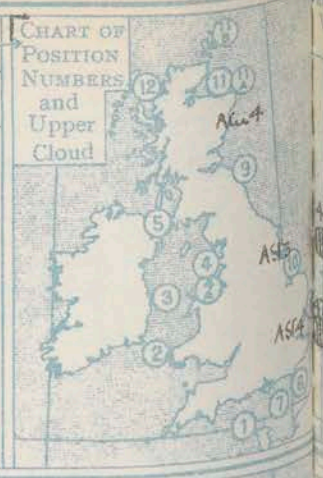
M.O FORM 2370

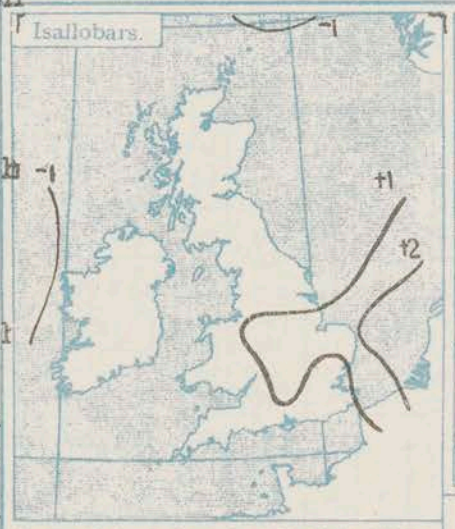
SUMMARY OF CONDITIONS AT 7 h. G.M.T.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, local drizzle.	Good	Slight
2. E. England	Dull, some drizzle	V.Good	Smooth
3. E. Midlands	Dull, some drizzle	Fair	--
4. W. Midlands	Overcast,	Good	--
5. S.W. England	Overcast.	Good	Moderate
6. South Wales	Overcast.	V.Good	Smooth
7. North Wales	Dull, misty	Fair	V.Smooth
8. N.W. England	Overcast, misty	Indiff.	V.Smooth
9. N. Midlands	Overcast	"	--
10. N.E. England	Overcast, local mist	Fair	Smooth
11. E. Scotland	Fine to cloudy, local frost.	Indiff.	"
12. S.W. Scotland	Dull, misty, local fog.	Poor	V.Smooth
13. Isle of Man	Dull, misty.	Indiff.	"
14. N.&N.W. Scotland	Fair to cloudy	Fair	Smooth
15. Hebrides	Dull	Fair	Slight
16. Orkneys and Shetlands	Fair to cloudy	"	V.Smooth
17. N.W. Ireland	Cloudy	"	Slight
18. N.E. Ireland	Dull, misty	Indiff.	Smooth
19. S.E. Ireland	Dull, local mist	Fair	Slight
20. S.W. Ireland	Dull	Fair	Smooth

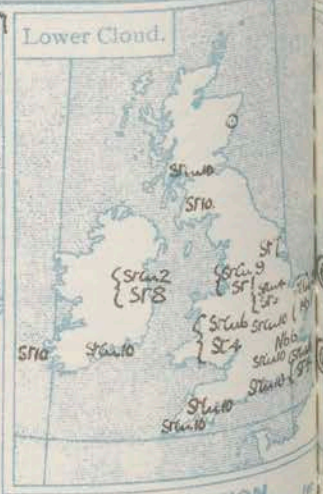
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	18	0813	46	45
3	"	0945	47	46
8	"	1015	45	44
1	"	1309	50	51
2	19	0200	48	46
7	"	0308	48	46
4a	"	0415	46	44
12	"	0430	47	47





Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.

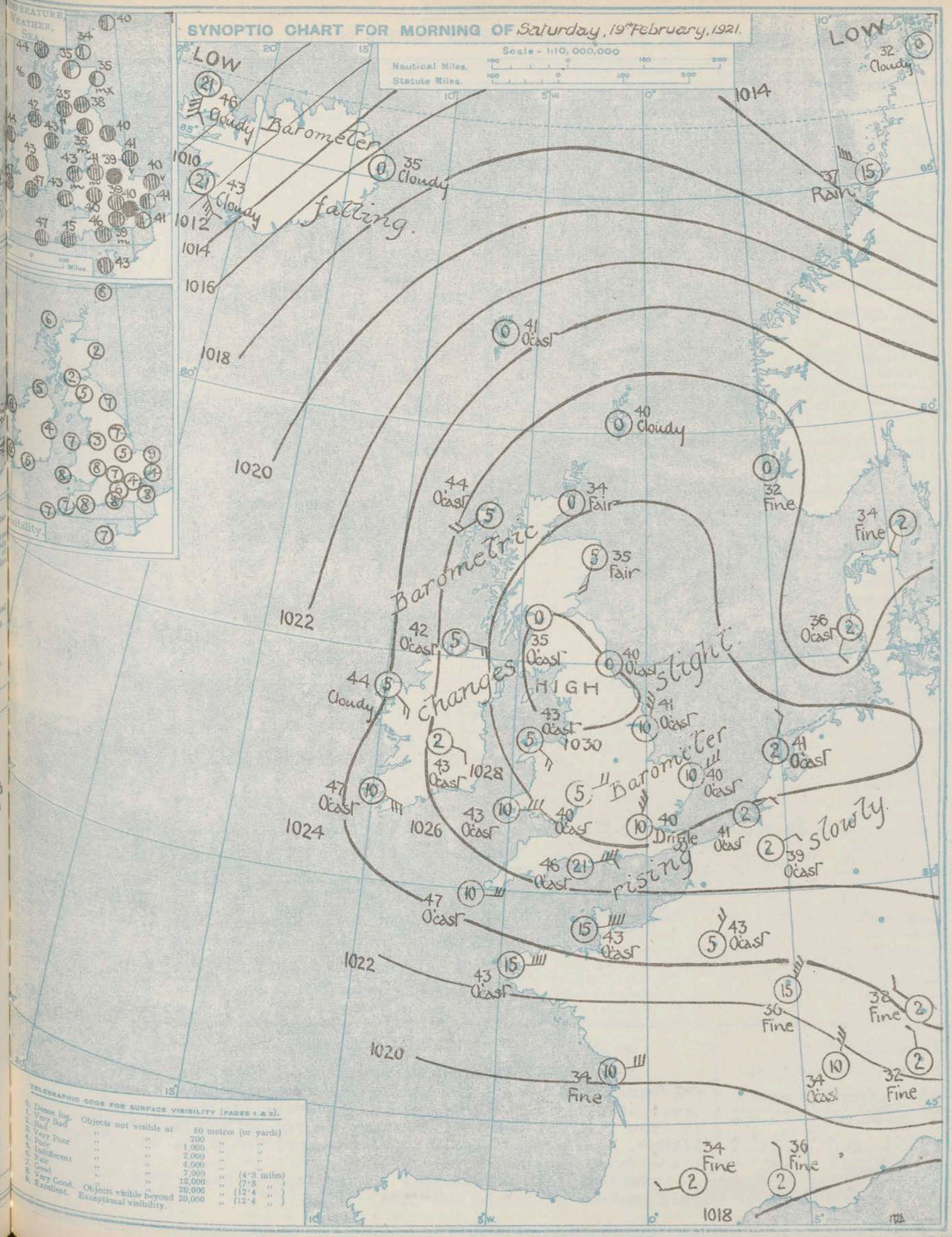
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T. thunder. R. thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h

The anticyclone over the British Isles will spread South-Eastwards during the week-end. The wind will be mainly Southeasterly light to moderate and weather fair generally with slight frost locally at night.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 19th Feb. 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light to moderate E. or S.E. winds; varying amount of cloud; visibility mainly good, but some morning mist; temperature moderate, but slight frost locally.	Mainly fair with S. or S.E. winds during the next two days.
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 South-Easterly or Southerly breezes; varying amount of cloud; visibility mainly fair, but some morning mist; rather cold, with slight frost locally at night.	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Light breezes, mainly from S. or S.W; cloudy; visibility fair to good; rather cold.	
19. S.E. Ireland 20. S.W. Ireland	Moderate S.E. wind; varying amount of cloud; visibility fair to good; moderate temperature.	

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


SYNOPTIC CHART FOR MORNING OF Saturday, 19th February, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Cloudy
Barometer falling.
Rain
Cloudy
Fine
Fair
Barometric changes
HIGH
Cloudy
Barometer slightly rising slowly.
Drizzle
Fine
1014
1010
1012
1016
1018
1020
1022
1024
1026
1028
1030
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog.
1. Very Bad
2. Bad
3. Very Poor
4. Poor
5. Indifferent
6. Fair
7. Good
8. Very Good.
9. Excellent.
Objects not visible at 50 metres (or yards)
" " 200 "
" " 1,000 "
" " 2,000 "
" " 4,000 "
" " 7,000 " (4·3 miles)
" " 12,000 " (7·5 "
" " 20,000 " (12·4 "
Objects visible beyond 20,000 " (12·4 "
Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 50 — Saturday 19th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 17-18	Rainfall. Day. 9h-18h. 18	Sunshine. Sunrise to Sunset. 18
Scotland.	Banff	o.c.	c.bc.b	43	36	-	-	0.0
England, N.E.	Harrogate	o	o	43	35	-	-	0.0
	Skegness	o.c	c.o.bc	47	38	-	-	3.4
England, E.	Lowestoft	o.c.bc.c	c.bc.c2	48	38	-	-	2.7
	Felixstowe	om.	om	47	36	-	-	0.1
	Southend-on-Sea	m.o.	o	48	37	-	-	0.0
England, S.E.	Tunbridge Wells	c.bc.c	c.o	48	33	-	-	1.6
	Margate	o	o	45	42	-	-	0.0
	Ramsgate	*	*	45	40	-	-	0.0
	Folkestone	o	o	47	38	-	-	0.1
	Hastings							
	Eastbourne	bc.c.o	o	50	40	-	-	2.2
	Brighton	b.bc.	c.o	51	41	-	-	2.8
	Worthing	b.bc.	o.	52	41	-	-	3.5
	Portsmouth (S'thsea)	*	*	52	39	-	-	2.5
	Bournemouth	*	*	52	34	-	-	2.5
England, N.W.	Blackpool	b.bc.	c.	50	30	0.2	-	5.5
Midlands.	Leamington Spa	o.	o.	47	31	-	-	0.0
	Bath	b.	b.bc.c.o	51	32	-	-	4.0
Wales.	Rhyl	bc.	bc.c	50	34	-	-	4.6
	Colwyn Bay	*	*	49	34	-	-	7.7
	Llandudno	b.bc.	bc.c.	49	32	-	-	6.7
	Aberystwyth	*	*	51	34	-	-	7.2
England, S.W.	Weymouth	c.	c.o	52	36	-	-	2.1
	Torquay	b.bc.b.	b.bc.b	49	39	-	-	4.8
	Paignton	bm.c.bc	c.bc.	48	38	-	-	3.1
	Penzance	o.c.	bc.o	48	39	-	-	0.2
	Bude	b.	b	50	33	-	-	5.8
	Ilfracombe	b.bc	bc.c.o	49	40	-	-	6.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h. 18	Weather. 18h-18h. 18	Weather. 18h-7h. 19	Weather. 7h-7h. 19	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h.	Rainfall.† Night. 18h-7h.	Sun. Hours.
Renfrew	b3f b-8f-4f	b bc.b2f3f	bbcc3f.04-5f	c0.04-5f	46	27	28	mm. -	mm. -	2.3 ~~0.3~~ 0.6
Eskdalemuir	bc c. c.o	c.o	o	o	40	23	32	-	-	
Valencia (Cahirn)	c.o bc.o	bc.c.bc.o	co	o	51	45	44	-	-	1.2
Baldonnel	o2f o1f	c.o bc.c4f	b2f	bo3f	46	35	26	-	-	0.0
Manchester (Alex. Pk.)	o8f b bc c4f b o2f.o4f bc c2f bc c	b.o2f.o3f	o3f	o3f	46	31	37	-	-	*
Ross on Wye	c.o2. o1f	o1f	o1f0	46	31	38	-	-	4.3	
Falmouth	o1f	o1f	bcco	o	49	39	39	-	-	0.3
Calshot (Hants)	o2f c.o2f bc	o1f.o2f	o2f g o1f	o1f0	50	39	40	-	-	2.5
Lympne (Folkestone)	3 bo2f. o1f b.bc. o3f	o2f.o1f.	o.o1f dd	o2f o1f	48	35	36	-	1	0.9
Aberdeen	o	b. o1f	ic o2f	3fc x	[illegible]	34	27	-	-	0.1
Howden	p3o.o2f	o. o1f.	dd o	do.do.o	45	34	31	trace	0.2	0.0
Cranwell (Lincs)	o3f p0 2f p0	o3f.o	dd dd	pd.o2f	45	36	35	-	2	0.1
Felixstowe	o3f.o.	o.o1f.	o1f f.f.	o2f pd.	48	39	35	-	1	0.1
Shoeburyness	2f2. 1f2.	1f2.o	o	po	48	34	36	-	1	0.1
Benson	2f bc.c.	o.	bcc	bcco	47	26	31	-	-	*
S. Farnborough	b.bc5f c.o2f	o3f.o.o	o	o1f	48	28	33	-	-	1.9
London (Kew Obsy.)	x5f o3f o2f	o.o2f.	o2f	o2f pd.	48	34	38	-	-	0.0
Croydon	b.bc.bc.c.x 5f c.o.o2f	o3f.o3f.	o3f o2f	o2f o3f rd. ~~rd.~~	48	31	38	-	0.3	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour	Metres per second.
0	Less than 1	Less than 0·8
1	1–3	0·3–1·5
2	4–7	1·6–3·3
3	8–12	3·4–5·4
4	13–18	5·5–7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora; Rime; Lunar halo; Glazed frost; Solar corona; Glazed roads; Lunar corona; Line Squall; Snow lying; Solar halo.

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. Yesterday.	Humidity % 15 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	% Hours ended 9h G.M.T. 19									
Greenwich (Royal Observatory)	o co	oc	od.	48	34	37	0.3	0.0	65	87
City (Bunhill Row)	*	*	*	*	*	*	*	0.1	*	*
Westminster (St. James's Park)	*	*	*	49	40	35	-	0.0	68	78
Regents Pk. (Botanical Gdns)	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rainfall)	bm bc	b.o	*	50	38	34	-	*	78	84
Kensington Palace	bc	c o	*	48	39	38	-	*	76 (18h)	85
Hampstead Observatory	*	*	*	46	37	35	-	1.2	*	91

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total 257 Joules.

Milliwatts.
Average Rate. 7
Maximum Rate. 18

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

19 to 20 Feby. 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.4. / 7.2	12.7 / 12.7	5.10 / 5.12
Greenwich	7.9 / 7.7	12.14 / 12.14	5.19 / 5.21
Wick	7.25 / 7.35	12.36 / 12.56	5.14 / 5.17
Valencia	7.31 / 7.49	12.35 / 12.33	5.59 / 6.1

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 18 h. 15 m.
to 19 h. 6 h. 16 m.

Star.	Duration of Exposure. h.	Duration of Exposure. m.	Duration of Record. h.	Duration of Record. m.	%
Polaris	12	0	-	9	1
δ Ursae Minoris	12	6	0	0	-

NOTES ON THE WEATHER OF YESTERDAY.

The day was somewhat less mild generally, but nevertheless the maximum was as high as 52° at several stations on the South Coast of England. During the night drizzling rain spread in from the East Coast of England, as far as Nottingham and London. At Cranwell the total measured was 2 mm, but in most places there was not more than 1 mm.

Further West dry weather continued, and there were some good records of bright sunshine.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21,640 ..SUNDAY, 20TH FEBRUARY..1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 19th														18H. G.M.T. of 19th													
Renfrew	1029.7	-1	-	0	0zf	40	85	4	2000	St	10	-	-	*	1028.3	-1	-	0	0zf	40	92	3	3000	St	10	-	-	*
Eskdalemuir	1029.7	0	SSW	2	0	39	75	6	2000	St	10	-	-	*	1028.7	0	-	0	0zf	37	75	5	2000	St	10	-	-	*
Valencia (Cahuc'n)	1024.8	0	SE	2	0zf	48	75	7	3000	StCu	10	-	-	3	1023.7	0	ESE	2	02	46	75	6	3000	StCu	5	aSt	5	3
Baldonnel	1028.0	-0	SE	2	0zf	44	85	5	2000	St	10	*	-	*	1027.0	-1	SE	2	0zf	42	85	5	2,000	StCu	10	-	-	*
Manchester (Alex Pk)	1030.2	0	ESE	2	0zf	42	75	4	2000	St	10	-	-	*	1026.9	0	ESE	3	0zf	40	75	4	3000	StCu	10	-	-	*
Ross on Wye	1028.6	-1	ENE	3	0	41	75	8	2000	StCu	10	-	-	*	1027.6	-1	ENE	2	0	40	75	8	3000	StCu	10	-	-	*
Falmouth	1025.4	-1	E	3	0	44	92	7	-	StCu	10	-	-	*	1024.1	-2	ENE	5	0zf	44	75	5	-	StCu	10	-	-	*
Calshot (Hants) *	1027.7	-1	ENE	4	0	43	85	8	2000	StCu	10	-	-	2	1026.7	0	NE	4	0	43	75	8	2,000	StCu	10	-	-	2
Lympne (Folkestone)	1027.8	0	ENE	4	0	~~40~~ 41	~~85~~ 75	4	1,250	StCu	10	-	-	*	1026.3	-1	E	4	0	38	85	8	1,250	St	7	-	-	*
Aberdeen	1028.5	-1	-	0	bc1f	44	55	4	-	-	-	aCu	6	2	1027.5	-1	SSW	1	b4fi	38	92	2	-	-	-	a	2	2
Howden	1030.1	-1	-	0	01f	42	75	5	2000	StCu	10	-	-	*	1029.1	0	-	0	0zf	40	75	6	2000	StCu	10	-	-	*
Cranwell (Lincs)	1029.9	-1	ESE	1	0	41	85	8	2000	~~StCu~~ St	~~10~~ 6	StCu	4	*	1029.2	0	E	1	0	38	92	8	2000	StCu	10	-	-	*
Felixstowe	1029.2	-1	NNE	3	01f	42	85	7	3000	StCu	10	-	-	*	1028.3	-0	N	3	01f	40	92	7	2000	StCu	10	-	-	1
Shoeburyness	1028.5	-1	NE	2	0	42	75	8	3000	StCu	8	-	-	*	1027.7	-1	ENE	3	0	40	75	7	4,200	StCu	10	-	-	*
Benson	1028.1	0	NE	2	0	42	75	6	-	StCu	10	-	-	*	1027.3	-1	ENE	3	0	40	75	5	-	StCu	10	-	-	*
S. Farnborough	1028.2	-0	E	3	01f	42	85	6	2000	St	10	-	-	*	1027.3	0	E	2	0zf	40	85	5	1,250	St	10	-	-	*
London (Kew Obsy.)	1028.3	-2	E	2	0zf	42	85	4	2000	St	10	-	-	*	1027.5	0	ENE	3	0zf	42	75	4	2,000	StCu	10	-	-	*
Croydon	1028.4	-1	ENE	3	0zf	42	85	5	1,250	StCu	10	-	-	*	1027.1	0	ENE	3	0zf	39	85	5	750	St	10	-	-	*
	1H. G.M.T. of 20th														7H. G.M.T. of 20th													
Renfrew	1028.0	0	S	2	01f	40	85	6	3000	St	10	-	-	*	1027.7	0	S	1	01f	38	85	6	2000	St	10	-	-	*
Eskdalemuir	1028.4	0	SSE	1	0zf	35	85	5	3000	St	10	-	-	*	1028.2	0	SW	2	0	32	85	5	2000	St	10	-	-	*
Valencia (Cahire'n)	1023.9	0	SW	2	0m	45	*	*	*	*	*	*	*	1	1023.1	+1	ESE	3	02	45	75	6	3000	St	10	-	-	*
Baldonnel	1027.3	0	SE	2	03f	40	85	4	2000	StCu	10	-	-	*	1026.4	0	SSE	1	0zf	39	85	5	2000	StCu	10	-	-	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.2	+1	E	2	0zf	36	92	5	2000	StCu	10	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.6	0	ENE	1	0	37	85	7	2000	St	10	-	-	*
Falmouth	1024.2	0	E	5	0	44	75	8	-	StCu	10	-	-	*	1023.1	0	NE	4	0	41	85	6	-	StCu	10	-	-	*
Calshot (Hants)	1025.9	+2	NE	3	b1f	~~38~~	85	6	-	-	-	-	-	2	1025.0	-2	NNE	3	b4f	35	97	5	2000	St	1	-	-	3
Lympne (Folkestone)	1025.6	-1	E	3	b	~~37~~ 35	92	8	-	-	-	-	-	*	1025.3	0	E	3	0zf	33	97	4	-	-	-	aSt	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.4	-1	WNW	2	bc2fix	34	92	5	3000	StCu	3	a	1	2
Howden	1029.2	0	-	0	01f	37	85	5	2000	St	10	-		*	1028.8	0	-	0	01f	36	85	7	2000	~~StCu~~ St	~~8~~ 10	~~aCu~~	7	*
Cranwell (Lincs)	1029.1	0	E	1	0	36	85	8	2000	StCu	10	-	-	*	1028.3	0	NE	1	01f	36	97	6	2000	StCu	10	-	-	*
Felixstowe	1028.0	0	N	2	b1f	33	97	6	-	-	-	-	-	1	1027.1	0	NNE	2	bx	35	97	5	-	-	-	aCu	1	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.2	-2	NE	2	c2fix	31	85	5	5,700	StCu	4	aCu	3	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.2	-1	E	3	0	37	92	4	-	St	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.7	-1	ENE	3	0zf	38	92	5	1,250	St	10	-	-	*
London (M.O. at 1H.)			*	*	*	38	*	*	*	*	*	*	*	*	1026.1	0	ENE	2	0zf	39	85	4	3000	St	10	-	-	*
Croydon	1027.1	-1	NE	1	b2fix	33	97	4	1250	St	1	-	-	*	1026.3	0	ENE	2	03f	37	97	3	1,250	St	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Change in 24 hours.	Wind. Direc	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 19th					7H. G.M.T. of 20th									24 HOURS ENDED 7H. 20th						19th
Lerwick	1028.7	44	WSW	1	01f.	1023.8	-2	43	+3	S	1	S	0g	1	-	45	40	0	0	0m.0	*
Stornoway	1025.1	44	SSW	3	0	1023.1	0	44	0	S	4	-	0	3	-	45	44	0	0	0	0.0
Castlebay (Barra Is)	1025.8	47	SE	4	0	1023.7	0	45	-1	SSW	4	-	0	4	-	47	45	0	0	0	0.0
Malin Head	1024.2	43	SSE	2	01f	1024.5	0	41	-1	SSE	1	-	01f	2	-	44	40	0m.	0m	0m	0.0
Blacksod Point	1023.3	46	SE	2	c	1021.5	0	44	0	SE	3	-	0	3	-	47	41	c.	c	0.c.0	*
Roche's Point	1025.7	45	SE	4	0	1025.0	0	43	-4	SE	4	-	0	4	-	48	42	0z.	0z	0z	*
Birr Castle	1026.0	43	ESE	1	0	1025.2	*	41	-2	ESE	1	-	0	*	-	46	39	fo.	f.o	0	0.0
Donaghadee	1027.3	43	S	1	0m	1026.4	-1	41	-2	S	1	-	0m	1	-	45	43	0m.	0m	0m	*
Liverpool (Bidston)	1027.9	41	ESE	2	0	1027.7	0	37	-4	SE	2	E	0	2	-	44	36	0m.	0m	0m	0.0
Holyhead	1027.3	43	E	2	01f.	1026.2	0	39	-4	S	4	-	0zf	2	-	45	38	0g.	0g	0.c.0mg	0.0
Pembroke (St. Ann's Head)	1026.6	42	E	3	0	1026.0	0	38	-5	E	3	-	0g	3	-	43	38	0.	0	0	0.0
Scilly (St. Mary's)	1023.4	46	ESE	4	0	1022.3	-1	45	-2	E	4	-	0	5	-	48	42	*	*	0	0.1
Jersey (St. Aubin)	1023.4	43	ENE	4	b	1021.7	0	40	-3	E	2	-	b	2	-	45	39	0	0.	bWx	0.6
Portland Bill	1024.8	44	ENE	5	0	1024.8	0	42	-4	ENE	5	E	c	5	-	47	38	0.	0	0 c	*
Dungeness	1026.3	41	E	3	bc	1024.2	0	39	-2	ENE	2	-	b	2	-	49	39	c.	c.bc	bc b	*
Wick	1025.8	43	SSW	1	0m	1024.2	-1	37	+3	SW	2	-	0	1	-	45	33	bcm.	bc.0m	0m.	*
Nairn	1027.1	40	-	0	c	1025.3	*	39	+4	-	0	-	0m	1	-	44	35	bcz.	bc.cz	cgm	3.3
Leith	1027.8	41	SW	1	0	1027.0	0	38	0	SSW	1	-	0	1	-	42	37	0m.c	c.0	0g.0	*
Tynemouth	1028.4	40	W	1	0zf	1028.1	0	37	-3	W	1	-	01f	2	-	41	37	0m	0m	0m	*
Spurn Head	1028.9	40	SE	3	0	1028.3	0	40	-1	SE	2	-	0	2	-	48	40	0V.	0V	0	*
Yarmouth (Gov. Jetty)	1028.1	40	E	3	c	1027.0	0	41	+1	ESE	4	-	bc	3	-	42	40	2V.cV.	cV	bc.b cV.cV	0.0
Clacton-on Sea	1027.7	41	ENE	3	0	1026.2	-1	40	-1	ENE	3	-	bc	3	0.1	44	35	cpS.	c.0	0.bcx	1.5
Nottingham	1028.8	40	E	2	*	1027.8	*	38	-1	NE	1	E	0	*	2 trace	41	36	0.c.	0	0	0.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p. 4.

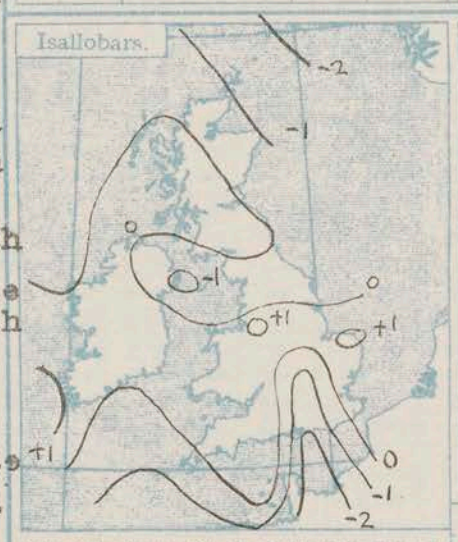
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T.

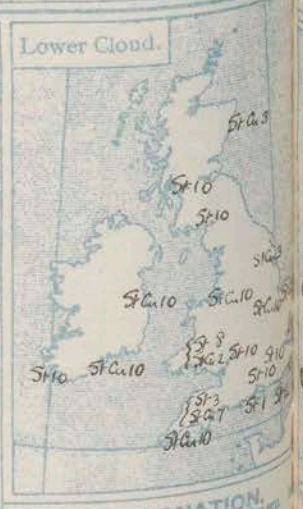
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Variable, some mist	Poor	Smooth
2. E. England	Fair & Fine	Indiff.	"
3. E. Midlands	Dull, some mist	"	"
4. W. Midlands	Overcast	Fair	--
5. S.W. England	Ocercast	Good	Moderate
6. South Wales	Dull	Good	Slight
7. North Wales	Dull, some mist	Fair	Smooth
8. N.W. England	Dull, some mist	Indiff.	Smooth
9. N. Midlands	Dull. some mist	"	--
10. N.E. England	Dull, some mist	Fair	Smooth
11. E. Scotland	Fair to dull, local mist	Indiff.	Smooth
12. S.W. Scotland	Overcast, slight local mist.	Fair	Smooth
13. Isle of Man	Dull, some mist	"	"
14. N.& N.W. Scotland	Dull, some mist	"	v.smooth
15. Hebrides	Overcast	"	Moderate
16. Orkneys and Shetlands	Overcast	V.poor	V.Smooth
17. N.W. Ireland	Dull, slight local mist	Fair	Smooth
18. N.E. Ireland	Overcast	"	"
19. S.E. Ireland	Dull, some mist	Indiff.	Moderate
20. S.W. Ireland	Dull, some haze	Fair	Slight

Temperature reported from Coastal and Cross Channel Steamers

Position Number	Date	Time G.M.T.	Sea °F	Air °F
5.	19th	0830	46	43
3.	19th	1015	47	46
6.	19th	1430	47	47



Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.

BAROMETER.—Isobars are drawn at 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 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.

GENERAL INFERENCE from observations received up to 9h.

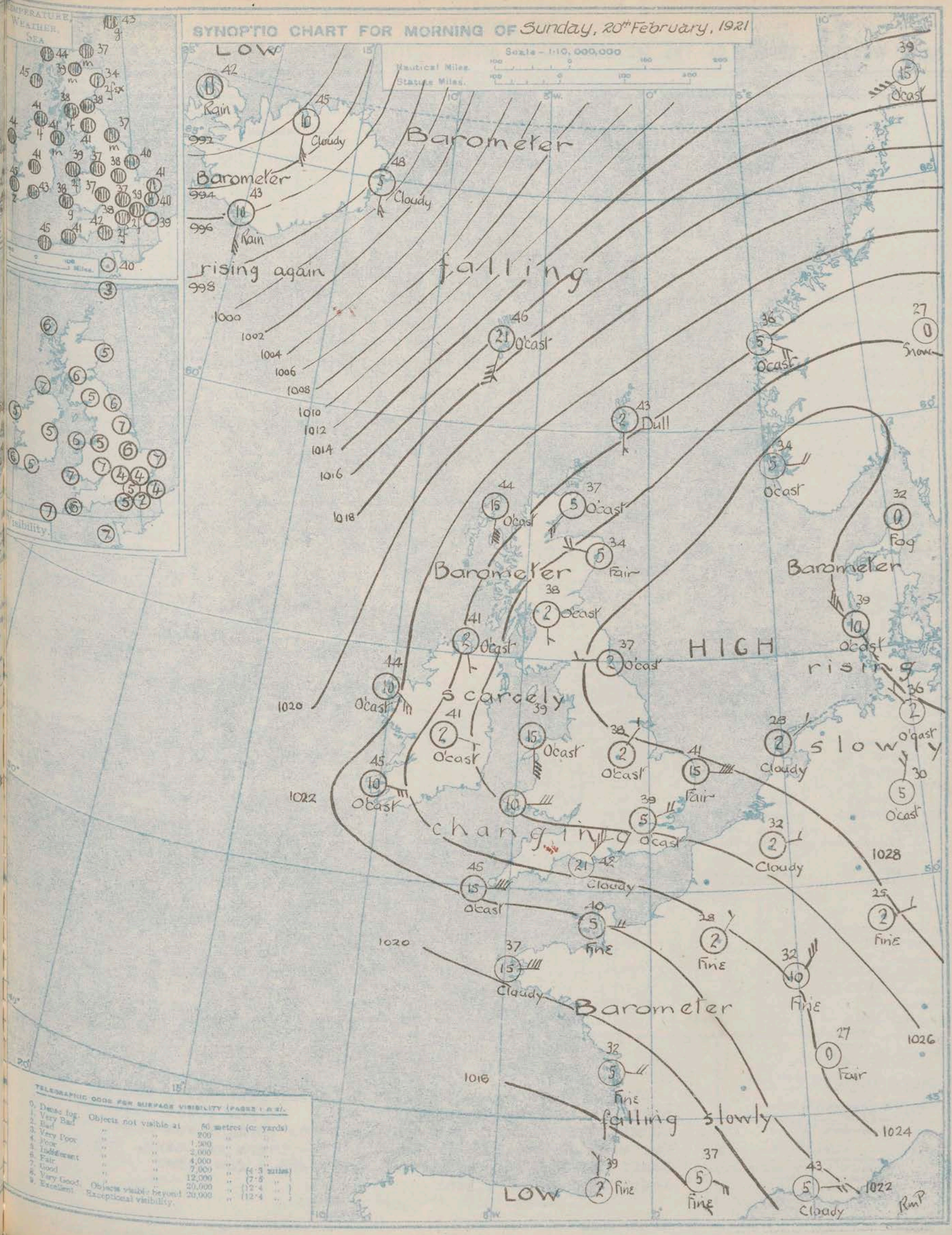
There are no indications of any important change in the winds and weather. The anticyclone over the North Sea will maintain its influence for the present with little modification.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 20th Feb. 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind mainly East, light or moderate generally, stronger at times on the coast; cloudy or variable sky. Visibility fair. Little change of temperature. Frost at night.	Wind between E & S; mainly fair, dry. Moderate temperature
7. North Wales 8. N.W. England	Wind SE or S, light or moderate, dull to fair; fair visibility. Little change of temperature. Frost at night inland.	
9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind between S. and SW, light or moderate, fair or cloudy; Visibility fair to good; temperature changing little, frost inland at night.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind S or SE, light or moderate; cloudy or fair, Little change of temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly SE, light or moderate, mainly overcast or cloudy, fair at times; visibility mainly fair, little change of temperature	

RS

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

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


SYNOPTIC CHART FOR MORNING OF Sunday, 20th February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Rain
Cloudy
Barometer
Rain
rising again
falling
O'cast
Dull
Fair
Fog
Snow
HIGH
rising
scarcely
slowly
changing
Cloudy
Fine
Barometer
falling slowly
LOW
Temperature, Weather, Sea
Visibility.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Moderate " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond
9. Excellent. Exceptional visibility. 20,000 " (12·4 ")

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 51.

{ Sunday, 20th February 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 18th-19th	Rainfall. Day. 9h-18h. 19th	Sunshine. Sunrise to Sunset. 19th
Scotland.	Banff	bc.	bc.b	40	29	–	–	4·8
England, N.E.	Harrogate	o.c.	o	42	37	–	–	0·0
	Skegness	8V.	o	42	39	–	–	0·0
England, E.	Lowestoft ...	o.	o.c.o	42	39	1	–	0·3
	Felixstowe	om	og	42	39	0·4	–	0·2
	Southend-on-Sea...	o c.op	os.o	45	38	1	0·2	0·8
England, S.E.	Tunbridge Wells	o.	o	42	38	0·3	–	0·0
	Margate	o.	o	43	40	0·3	–	0·0
	Ramsgate	*	*	43	39	1	–	0·0
	Folkestone	o.	o	46	39	–	–	0·0
	Hastings	o	o	43	39	0·4	–	0·0
	Eastbourne... ...	o	o	44	39	–	–	0·0
	Brighton	o	o	44	40	–	–	0·0
	Worthing	o	o	44	39	–	–	0·0
	Portsmouth (S'thsea)	.x.	.x.	44	41	–	–	0·0
	Bournemouth	*	*	43	37	–	–	0·0
		*	*					
England, N.W.	Blackpool	o.	o	42	40	–	–	0·0
Midlands.	Leamington Spa...							
	Bath	o	o	43	41	–	–	0·0
Wales.	Rhyl	c.	c	44	36	–	–	0·1
	Colwyn Bay ...	.x.	.x.	44	40	–	–	0·2
	Llandudno	o	o.c.o	46	41	–	–	1·4
	Aberystwyth ...	bc.	b.	48	41	–	–	0·8
England, S.W.	Weymouth	o.	o	44	42	–	–	0·0
	Torquay	c.	c	45	43	–	–	0·0
	Paignton	o	o	45	42	–	–	0·0
	Penzance	o	o	47	44	–	–	0·0
	Bude	c.	bc	44	37	–	–	0·0
	Ilfracombe							

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 19th	Weather. 13h-18h 19th	Weather. 18h 19th-11h 20th	Weather. 11h-7h 20th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
								mm.	mm.	
Renfrew ...	o4·5f o2f	o2f.c.o	o3f.o1f.	o1f.	42	35	36	–	–	0·0
Eskdalemuir	o	o.o2f.	o o2f.	o.o2f.	39	32	30	–	–	0·0
Valencia (Cahirc'n) ...	o. o1f	o2	o2.	o2	48	44	44	–	–	0·0
Baldonnel	o2f.3	o2f.	o2f.o3f	o2f.o	45	36	36	–	–	0·0
Manchester (Alex Park)	o3f. o2f.	o2f.	o2f.	o2f.	42	36	34	–	–	*
Ross on Wye... ...	o	o	o	o	42	37	35	–	–	0·0
Falmouth	o	o o2f	o	o	46	41	41	–	–	0·0
Calshot (Hants)... ...	o.o1f o.	o.	o.c.o bc.c bc.	b1f.b2fx	43	34	29	–	–	0·0
Lympne (Folkestone) ...	~~o3f o1f~~	o	b bc b.	bx1f.2f	41	32	25	–	–	0·0
Aberdeen	3f2.2f	2f.3f2	4·5f2.3f2	3f2x	44	33	27	–	–	1·6
Howden	2fp.	o2f.	o1f.o1f.	o.o1f.	42	36	33	–	–	0·0
Cranwell (Lincs)	o1f.o	o	o	o1f	41	35	34	0·1	–	0·0
Felixstowe	pδo. o.	o1f.o1f.	o.b.o	b bo1f 2fx	43	33	30	–	–	0·2
Shoeburyness	pδo.c.o.	c.o.δ	1f2x.	2f2x	44	30	27	0·1	–	0·9
Benson	o	o	o	o	43	33	28	?	–	.x.
S. Farnborough ...	o1f pδo	o2f.	o2f.	o2f	43	29	22	–	–	0·0
London (Kew Obsy.) ...	o3f.o2f pδog	o3f.u	o2f.2f.	b2f.o2f	43	38	31	–	–	0·0
Croydon	o2f.o2f pδ ~~o2f o.~~ o2f	o2fx b.o2f.	x.o2f.	b o2f	42	31	23	0·1	–	.x.

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity a. about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora ☆ Rime ✕ Solar halo ⊕ Lunar halo ◐ Glazed frost ⌇ Solar corona ◎ Glazed roads ⌇ Lunar corona ◎ Line Squall ⊗ Snow lying ▩

LONDON OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 20th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	o	o	o	43	36	29	–	0·0	75	93
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	o	*								
Regents Park (Botanical Gdns)	.x.	.x.	.x.	.x.	.x.	*	.x.	00	.x.	.x.
Camden Sq. (British Rainfall)	c	bc.c	*	43	34	29	–	*	81	88
Kensington Palace	o	o	*	43	36	32	–	*	74 (18h)	90
Hampstead Observatory ...	*	*	*	40	35	30	–	0·0	*	98

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

20th & 21st February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	7.2	12.7	5.12
	7.0	12.7	5.14
Greenwich	7.7	12.14	5.21
	7.5	12.14	5.23
Wick ...	7.35	12.26	5.17
	7.32	12.26	5.20
Valencia ...	7.49	12.55	6.1
	7.47	12.55	6.3

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

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

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 50° very generally, and at many stations barely exceeded 40°. Slight frost occurred at night in several parts of England. Bright sunshine was very deficient. In most places there was none, but Banff had 4.8 hrs, Nairn 3.3 hours and a few other localities about 1 hour.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21,641 . MONDAY, . 21st. FEBRUARY. . 192?.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind Direc.	Wind Force 0-12.	Weather	Temp. °F.	% Humidity.	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud Form.	Low Cloud Amt. 0-10.	Upper Cloud Form.	Upper Cloud Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud Form.	Upper Cloud Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 20th														**18H. G.M.T. OF 20th**													
Renfrew	1027.2	-1	SSE	2	o2f	39	85	4	2000	St	10	-	-	*	1026.8	+1	S	2	o2f	37	85	4	3000	Sr.	10	-	-	*
Eskdalemuir ...	1028.0	-1	SE	1	o	34	85	4	2000	St	10	-	-	*	1027.1	0	SE	2	o2f	33	75	4	2000	Sr.	10	-	-	*
Valencia (Cahirc'n)	1022.9	-2	ESE	2	o	44	75	8	2000	StCu	10	-	-	3	1021.9	-2	ESE	3	o1f	44	75	7	3000	StCu	10	-	-	3
Baldonnel ..	1025.8	-2	SE	2	o2f	40	85	5	2000	St	10	-	-	*	1024.3	-3	ESE	1	o2f	39	75	4	750	Sr	10	-	-	*
Manchester (Alex Pk)	1027.4	-1	E	3	o2f	43	75	4	2000	StCu	10	-	-	*	1026.1	0	NE	1	b3f	38	85	2	1250	Sr.	1	-	-	*
Ross on Wye ...	1025.7	-1	ENE	3	bc	44	75	6	4200	Cu	4	-	-	*	1024.6	0	NE	1	b	41	85	5	-	-	-	-	-	*
Falmouth	1022.3	-2	ENE	4	o2f	45	85	4	-	StCu	9	-	-	*	1021.0	0	ENE	3	bc2f	44	85	4	-	StCu	5	-	-	*
Calshot (Hants) *...	1024.0	-2	ENE	4	b1f	46	75	6	-	-	-	-	-	3	1023.6	0	ENE	3	b	44	75	5	-	-	-	-	-	2
Lympne (Folkestone)	1024.9	-1	E	4	b1f	47	65	7	-	-	-	a St	1	*	1025.0	0	ENE	4	b1f	38	85	6	-	-	-	CiCu	1	*
Aberdeen	1026.7	0	SSW	2	o3f	41	75	3	2000	StCu	10	-	-	2	1026.4	0	SSW	2	b3f	37	75	3	-	-	-	-	-	2
Howden	1028.2	-1	SE	2	o	42	75	8	3000	StCu	10	-	-	*	1028.0	0	ESE	2	b	37	92	7	3000	Sr.	2	A Sr.	1	*
Cranwell (Lincs) ...	1027.4	-2	E	3	c	43	85	8	3000	StCu	7	-	-	*	1027.1	+1	E	3	b1f	38	92	7	-	-	-	A Sr.	1	*
Felixstowe ...	1027.5	-1	NE	4	bc1f	44	85	6	-	-	-	a.c.	5	*	1027.6	0	NE	3	b1f	42	97	6	-	-	-	A Sr	1	2
Shoeburyness ...	1026.2	0	NE	3	b	45	75	7	-	-	-	Ci St	2	*	1026.3	0	NE	2	b	38	85	7	-	-	-	Ci C.	1	*
Benson	1026.3	-1	ENE	3	b	48	65	5	-	-	-	-	-	*	1024.4	-1	E	1	b	42	65	5	-	-	-	-	-	*
S. Farnborough	1024.5	-1	ENE	3	b	50	65	6	-	-	-	-	-	*	1024.7	+1	E	3	b2f	42	75	4	-	-	-	-	-	*
London (Kew Obsy.)	1025.1	-3	E	4	b2f	48	85	4	-	-	-	-	-	*	1025.2	+2	ENE	3	b2f	42	75	4	-	-	-	-	-	*
Croydon	1025.5	-2	ENE	4	b2f	49	65	5	-	-	-	-	-	*	1025.3	0	ENE	4	b2f	39	85	4	-	-	-	-	-	*
	1H. G.M.T. OF 21st														**7H. G.M.T. OF 21st**													
Renfrew ...	1025.8	-1	ENE	2	o2f	35	85	5	3000	Sr	10	-	-	÷	1023.4	-1	NE	1	b3f	30	94	3	-	-	-	-	-	÷
Eskdalemuir ...	1026.8	-1	N	2	b2f	24	85	4	.	.	.	.	.	*	1025.1	-1	N	2	bx	24	92	4	-	-	.	.	.	*
Valencia (Cahirc'n)	1019.6	-2	-	0	bc	41	*	*	*	*	*	*	*	9	1016.9	-3	ESE	3	o3	45	65	6	4400	Sr	10	-	-	÷
Baldonnel ...	1023.0	-2	E	1	bc2f	34	85	3	2000	Sr Cu	2	A St	2	*	1019.4	-2	E	1	bc2f	38	85	4	2000	Sr	3	Ci	1	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.5	-2	E	3	bxm	33	85	4	-	-	-	-	-	÷
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.9	-1	ENE	1	omx	25	92	3	450	Sr	9	-	-	*
Falmouth ...	1019.9	-1	ESE	4	b	46	92	4	-	-	-	.	-	*	1014.8	0	SE	3	b1f	46	85	4	-	-	-	-	-	*
Calshot (Hants)...	1023.8	0	ENE	3	b1f	40	75	6	.	-	-	.	.	3	1022.5	-2	ENE	6	b2f	41	75	5	-	-	-	-	-	3
Lympne (Folkestone)	1025.2	0	E	5	b1f	39	75	4	.	.	.	.	.	*	1024.4	0	E	5	b1f	36	75	6	-	-	-	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.9	0	SSW	2	bc3fe	34	92	2	2000	Sr	4	-	-	2
Howden ...	1028.2	0	ESE	2	b	33	97	6	-	-	-	-	.	*	1026.6	-1	SE	2	o3f	35	97	2	<500	Sr	10	.	-	*
Cranwell (Lincs)	1027.5	0	ESE	1	o5f	32	94	1	<500	Sr	10	-	.	*	1026.2	-1	E	1	o4f	34	94	2	<500	Sr	10	.	.	*
Felixstowe ..	1027.4	0	NE	3	b1f	42	94	6	-	-	-	-	.	1	1026.5	0	ENE	3	b	41	92	6	.	-	-	-	.	1
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.5	-1	E	2	b1fex	34	85	6	.	.	-	A St	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.9	0	ENE	2	b	34	70	6	.	.	.	.	.	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.0	-1	E	3	b3f	26	94	3	.	-	-	-	.	*
London (M.O. at 1H.)	1025.5	0	*	*	*	39	*	*	*	*	*	*	*	*	1024.3	0	ENE	2	bmx	34	92	2	-	-	-	-	.	*
Croydon ...	1025.9	-1	E	1	b3fx	34	97	3	-	.	.	.	.	*	1024.9	-1	-	0	bfx	29	94	3	-	-	.	.	.	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather	Barometer at M.S.L. mb.	‡ Barometer Change in 3 hours.	Temperature Temp. °F.	Temperature Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud.	Weather	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night.	Sunshine Hours.
	18H. G.M.T. of 20th					**7H. G.M.T. of 21st**									**24 HOURS ENDED 7H. 21st**						**20th**
Lerwick	1023.8	44	S	2	o	1022.3	-2	40	-3	S	3	.	o	2	-	45	40	o	o	o	*
Stornoway ...	1022.8	43	S	5	bc	1019.9	-1	42	-2	S	5	.	o	3	-	47	39	obcq	bc	bc.b.o	5.4
Castlebay (Barra Is)	1023.7	44	SE	4	o	1019.4	-2	44	-1	S	5	.	o	5	-	45	41	o	o	o	0.0
Malin Head ...	1023.3	40	SSE	2	o1f	1019.4	-1	38	-3	SE	2	-	o1f	2	.	45	38	bm	bcm	om	5.2
Blacksod Point	1021.2	45	SE	2	c	1016.3	-4	40	-4	SE	3	.	c	3	.	42	34	c	c	o.c	*
Roche's Point...	1023.5	40	ESE	1	o	1014.5	-3	47	+4	SE	4	-	o	4	?	47	39	oz	oz	omg	*
Birr Castle ...	1024.0	40	SE	1	o	1014.9	*	40	-1	E	1	.	o	*	-	43	36	f.o	f.o	f.o	0.0
Donaghadee ...	1025.1	40	SE	3	o	1021.1	-2	42	+1	SSE	2	.	bcm	2	-	43	39	om	om	om	*
Liverpool (Bidston)	1025.4	41	SE	2	m	1023.2	-1	34	-3	SE	4	E	o	3	-	43	33	o	bm	o	1.6
Holyhead ...	1024.2	40	N	3	b	1020.6	-1	34	-5	SE	1	.	bm	0	.	44	32	om	ombm	bmx	3.0
Pembroke (St. Ann's Head)	1023.2	42	E	3	b	1019.3	-2	41	+3	E	4	.	b1f	3	.	44	38	o	cz	bz	2.8
Scilly (St. Mary's)	1021.1	45	E	4	o	1006.8	-2	48	+3	SE	4	SE	bc	5	.	48	44	o	om	om.c.bc	0.2
Jersey (St. Aubin)	1020.0	46	ENE	4	b	1019.3	0	42	+2	E	4	.	b	3	-	51	40	b	b	bm.bmx	9.5
Portland Bill ...	1021.8	46	ENE	5	b	1020.2	-3	45	+3	E	5	.	b	6	-	47	36	cbc	bcl	b	*
Dungeness ...	1023.8	43	ENE	4	b	1023.8	0	40	+1	E	3	.	b	3	-	46	39	b	bcb	b	*
Wick	1024.0	40	SSW	2	om	1021.1	-3	35	+1	SW	2	.	om	1	.	43	35	om	om	om	*
Nairn	1024.9	40	WSW	1	c	1022.4	*	27	-12	-	0	.	bc	1	-	44	25	bcz	bc.cq	cqmx	1.0
Leith	1026.6	36	SW	1	a	1023.4	-1	38	-8	SE	1	.	b	1	.	40	30	oq.o	cm.o	o.cx.b	*
Tynemouth ...	1027.5	38	S	2	o2f	1025.6	-1	34	0	SSW	3	.	om	3	.	38	25	bm	om	om	*
Spurn Head ...	1027.4	40	E	4	bc	1026.1	-1	40	0	SE	5	.	bc	3	.	43	34	o	ov	bc	*
Yarmouth (Gorleston)	1027.8	41	ESE	5	bc	1026.6	0	40	-1	SE	4	.	b	3	.	43	40	bc	bc	bcxbx.bm	4.5
Clacton-on Sea.	1026.3	42	ENE	4	b	1025.5	0	41	+1	E	3	.	b	2	.	45	39	bc	bc.b	bx	7.8
Nottingham ...	1026.6	39	E	2	b	1025.6	*	34	-1	E	2	E	o	÷	.	46	34	oc	bcb	b.bc	4.5

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

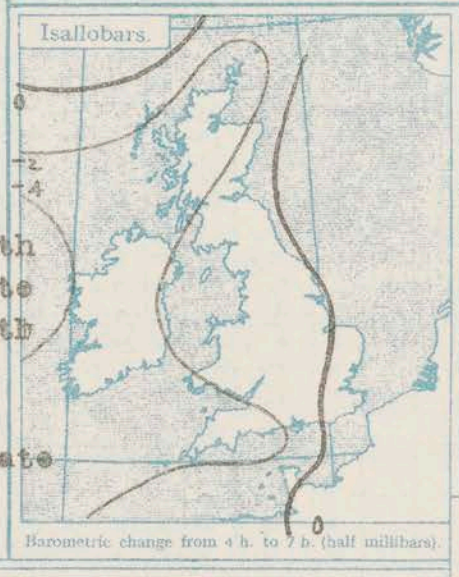
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T.

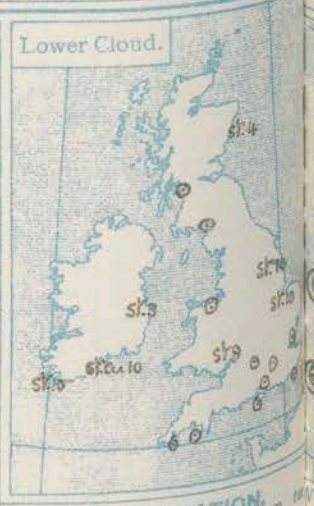
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fine, misty, frost inland	Poor	Slight
2. E. England	Fine	Fair	Smooth
3. E. Midlands	Foggy	Bad	--
4. W. Midlands	Fine, frosty	Poor	--
5. S.W. England	Fine	Good	R.Rough
6. South Wales	"	V.Good	Slight
7. North Wales	"	Fair	Calm
8. N.W. England	Fair, misty	Poor	Slight
9. N. Midlands	" "	Indiff.	--
10. N.E. England	Fair to dull, misty	Fair	Smooth
11. E. Scotland	Fair, foggy	Bad	Smooth
12. S.W. Scotland	Sharp Frost	Good	"
13. Isle of Man	Fair, misty	Fair	"
14. N.&N.W. Scotland	Fair to dull, misty	Poor	V.Smooth
15. Hebrides	Dull	Fair	Moderate
16. Orkneys and Shetlands	"	Indiff.	Smooth
17. N.W. Ireland	"	Fair	Slight
18. N.E. Ireland	Fair, misty	"	Smooth
19. S.E. Ireland	Dull	Poor	Moderate
20. S.W. Ireland	"	Fair	-

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	20th	0815	54	45
2	"	0415	48	40
4a	"	0450	13	40
3	"	0905	47	48



Barometric change from 4 h. to 7 h. (half millibars).



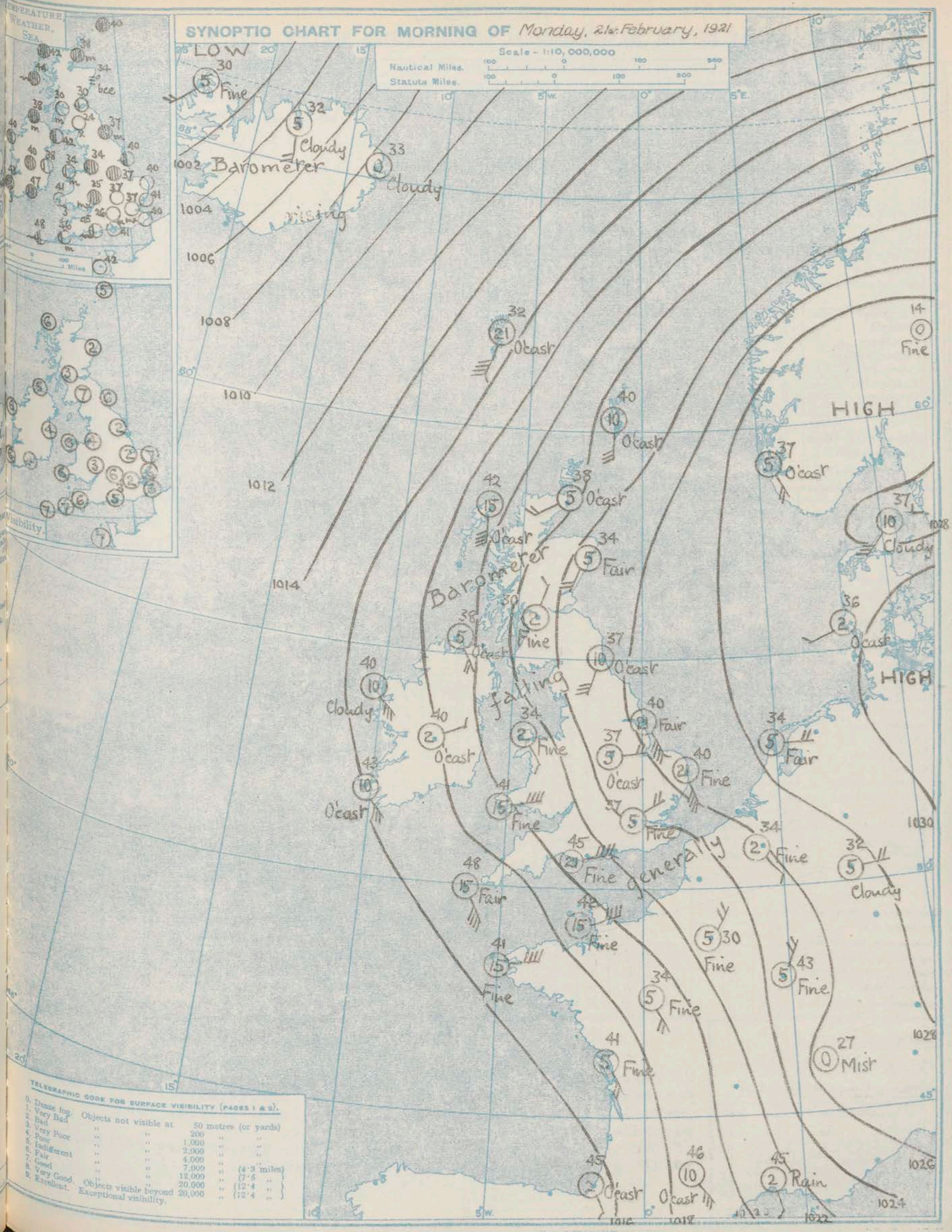
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h

The anticyclone is likely to move further Eastward, and a depression is spreading from the Southwest. Winds will be mainly between East and South and less fair conditions are likely to spread gradually over the Kingdom from the Westward. In the Eastern Districts, however, the fine weather will last at least 24 hours longer.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday 21st February 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind Easterly light or moderate; fair generally; visibility fair but some morning mist; rather cold, frost at night.	Fine and frosty for another day or two in the East; less fair in the West.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind SouthEasterly; moderate, fresh locally; fair to cloudy, visibility fair but local mist; rather cold.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Light Southerly wind; fair generally but local fog; visibility indifferent to fair; rather cold.	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind Southerly, moderate or fresh; dull, local showers; visibility fair; temperature moderate to rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S.E. Moderate or fresh; dull, probably some rain; visibility fair but local mist; rather cold.	

E4/3


SYNOPTIC CHART FOR MORNING OF Monday, 21st February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Fine
Cloudy
Baromerer
rising
Cloudy
O'cast
HIGH
Fine
O'cast
O'cast
O'cast
Cloudy
Baromerer
falling
Fair
Fine
O'cast
HIGH
Cloudy
O'cast
Fair
Fine
O'cast
Fair
Fine
O'cast
Fine
generally
Fine
Fine
Cloudy
Fair
Fine
Fine
Fine
Fine
Fine
Mist
O'cast
O'cast
Rain
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 52. {Monday 21st February 1921}

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 19th-20th	Rainfall. Day. 9h-18h. 20th	Sunshine. Sunrise to Sunset. 20th
Scotland.	Banff	oc.cb	c	44	26	-	-	1.0
England, N.E.	Harrogate	o.bc	bc	40	33	-	-	0.0
	Skegness	v c b	b	45	38	-	-	7.3
England, E.	Lowestoft	oc bc	bc	43	39	-	-	4.8
	Felixstowe	bcz	b	40	34	-	-	7.8
	Southend-on-Sea	mbcb	b	47	38	-	-	7.8
England, S.E.	Tunbridge Wells	b	b b m	51	33	-	-	7.3
	Margate	b	bc b o b	45	40	-	-	7.3
	Ramsgate	*	*	43	39	-	-	8.3
	Folkestone	b	b	47	36	-	-	8.3
	Hastings	b	b	48	35	trace	-	9.2
	Eastbourne	b	b	46	31	-	-	8.6
	Brighton	b	b	53	35	-	-	8.5
	Worthing	b	b	51	36	-	-	9.4
	Portsmouth (S'thsea)	*	*	50	35	-	-	8.5
	Bournemouth	*	*	48	34	-	-	8.3
England, N.W.	Blackpool	o	cb	43	36	-	-	2.0
Midlands.	Leamington Spa							
	Bath	b	b	49	35	-	-	6.3
Wales.	Rhyl	c	cbc	44	36	-	-	1.7
	Colwyn Bay	-	-	45	35	-	-	4.2
	Llandudno	o	cb	47	36	-	-	2.9
	Aberystwyth	-	-	47	32	-	-	6.2
England, S.W.	Weymouth	ob	b	51	36	-	-	6.2
	Torquay	cbc	cbc b	48	41	-	-	3.5
	Paignton							
	Penzance	oc	co	48	42	-	-	0.0
	Bude	c	b	48	38	-	-	5.7
	Ilfracombe	ocbcb	bbc	45	38	-	-	6.8

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 20th	Weather. 18h-18h 20th/21st	Weather. 18h 20th-1h 21st	Weather. 1h-7h 21st	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew	o1f.o2f	o2f	o2f	o1f.b3fr	39	30	20	-	-	0.0
Eskdalemuir	o2f	c.o2f	b2f	bx.	34	21	14	-	-	0.0
Valencia (Cahirc'n)	o1f.o	o.o1f	0	0	45	41	41	-	-	0.0
Baldonnel	o2f.o	o2f	c.o.bc.c1f	b.bcx	40	34	22	-	-	0.0
Manchester (Alex Park)	o2f	b2f.3f	b.bc.b3f	bx2f	45	33	22	-	-	*
Ross on Wye	c.o.bc c.b.bc2/bbc2 bz		br.bx	bx.b.ox	46	24	19	-	-	5.6
Falmouth	o	co2fbcc2f	bc.c.b.co	b	47	40	29	-	-	0.2
Calshot (Hants)	b2f.b1f	b1f	b1f	b1f.b2f	47	25	33	-	-	8.5
Lympne (Folkestone)	b bc2f.b bc 1f	bbc1f	b9	b1f.	47	23	28	-	-	9.5
Aberdeen	2fc o2f	o3f.3f	3fc	3fc.4-5fc	41	23	28	-	-	0.0
Howden	⊗	o	x3fc	o3fc	43	25	17	-	-	0.1
Cranwell (Lincs)	o1f.c.o	bbc	b.o3f.	o2f.4-5f	47	31	29	-	-	5.7
Felixstowe	b bc1f	bbc 1f	bw	b1f	46	34	34	-	-	4.4
Shoeburyness	PD.b bc	bbc	b.bcx	1fcx.	46	31	27	TRACE		8.5
Benson	b	b	b	b	5	35	23	-	-	*
S. Farnborough	c.o.b.bc.b	b2f	b2f	b3f	52	26	21	-	-	7.2
London (Kew Obsy.)	o2f.3f.2f	2f	b3f	3fx	48	34	29	-	0.1	5.8
Croydon	o2f.b.o2f b.	b2f.	b2f 3fx	bb3f.bx	49	28	18	-	-	.2

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:–
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1– 3	0·3– 1·5
2	4– 7	1·6– 3·3
3	8–12	3·4– 5·4
4	13–18	5·5– 7·9
5	19–24	8·0–10·7
6	25–31	10·8–13·8
7	32–38	13·9–17·1
8	39–46	17·2–20·7
9	47–54	20·8–24·4
10	55–63	24·5–28·4
11	64–75	28·5–33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ⌅ Lunar halo ⊘ Glazed frost ⌁ Solar corona ⊙ Glazed roads ⚒ Lunar corona ⊙ Line Squall ⊗ Snow lying ▩

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 21st							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	o.bc.b	b.b.	bx	49	36	30	-	6.4	64	84
City (Bunhill Row)	*	*	*	*	*	*	*	5.7	*	*
Westminster (St. James's Park)	*	*	xm	50	38	30	-	5.9	64	86
Regents Park (Botanical Gdns)	*	*	*	*	*	*	*	4.5	*	*
Camden Sq. (British Rainfall)	*	*	*	50	34	28	-	*	*	96
Kensington Palace	bc.b	b	*	51	36	32	-	*	81 (18h)	90
Hampstead Observatory	*	*	*	47	36	32	-	6.2	*	96

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total 56.7 Joules.

	Milliwatts.
Average Rate.	15.4
Maximum Rate.	20

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

21st & 22nd Feb. 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.0 / 6.58	12.7 / 12.7	5.14 / 5.16
Greenwich	7.5 / 7.2	12.14 / 12.14	5.23 / 5.25
Wick	7.32 / 7.30	12.26 / 12.26	5.20 / 5.23
Valencia	7.47 / 7.45	12.55 / 12.55	6.3 / 6.5

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 30 m. to 6 h. m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	30	11	30	100
δ Ursae Minoris	11	30	11	30	100

NOTES ON THE WEATHER OF YESTERDAY.

No rain occurred anywhere in the British Isles but the day was overcast in Scotland and Ireland. Brilliantly fine weather prevailed in the East and South of England, several stations recording more than 9 hours of sunshine.

Frosts occurred inland at night the air temperature falling to 21° at Eskdalemuir and 24° at Ross-on-Wye.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21,642 Tuesday, 22nd February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind Direc.	Wind Force 0-12.	Weather	Temp. °F.	% Humidity.	Visibility § 0-9.	Height of Low Cloud. Feet.	Low Cloud Form.	Low Cloud Amt. 0-10.	Upper Cloud Form.	Upper Cloud Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud Form.	Upper Cloud Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 21st														18H. G.M.T. of 21st													
Renfrew	1021.1	-5	NE	3	b3f	43	75	3	-	-	-	-	-		1019.0	-3	NE	3	b3f	41	75	3	-	-	-	Ci	3	*
Eskdalemuir ...	1021.7	-2	SE	3	by if	51	45	7	-	-	-	-	-	*	1021.0	-1	NW	1	bif	39	75	6	-	-	-	-	-	*
Valencia (Cahirc'n)	1012.4	-5	SSW	4	oif	48	75	7	4200	StCu	10	-	-	3	1009.4	-3	SSE	4	c	49	75	6	2000	StCu	7	-	-	4
Baldonnel ..	1016.9	-3	SSE	3	bif	51	65	7	4200	Cu	1	Ci	2	*	1015.2	-2	ESE	2	b2f	46	85	4	-	-	-	ASr	3	*
Manchester (Alex Pk)	1022.2	-3	ESE	3	by2f	53	55	4	-	-	-	-	-		1020.4	-1	ESE	3	b3f	43	75	3	-	-	-	-	-	*
Ross on Wye ...	1021.7	-4	-	0	bm	40	85	4	-	-	-	-	-	*	1018.7	-3	E	3	bz	45	55	5	-	-	-	-	-	*
Falmouth	1016.5	-2	ESE	2	bif	51	75	7	-	-	-	-	-	*	1015.3	-1	ESE	3	b2f	47	85	4	-	-	-	-	-	*
Calshot (Hants) * ...	1021.4	-3	E	5	bif	46	75	6	-	-	-	-	-	4	1018.9	-2	E	5X	b2f	45	75	5	-	-	-	-	-	4
Lympne (Folkestone)	1022.6	-2	E	4	bify	47	55	6	-	-	-	-	-	*	1021.2	-2	E	4	b2f	43	75	5	-	-	-	-	-	*
Aberdeen	1023.1	-3	SSE	3	c 2fe	42	85	4	2000	Sr.	8	-	-	?	1022.3	-1	S	3	o2fe	42	92	4	1250	Sr.	10	-	-	2
Howden	1024.8	-3	SE	3	bz	49	75	7	2000	StCu	3	-	-	*	1022.1	-2	E	5	bm	40	92	6	3000	St.	1	-	-	*
Cranwell (Lincs) ...	1024.5	-3	ESE	1	b2f	44	92	5	-	-	-	-	-	*	1022.6	-1	E	1	b2f	41	97	5	-	-	-	-	-	*
Felixstowe ...	1024.7	-3	ENE	2	bif	45	85	6	-	-	-	-	-	*	1022.6	-2	ENE	3	b2f	41	97	4	-	-	-	-	-	1
Shoeburyness ...	1023.1	-2	E	3	b	46	75	6	-	-	-	-	-	*	1021.7	-2	E	1	b2fe	39	92	5	-	-	-	-	-	*
Benson	1020.6	-4	ESE	4	b	54	35	5	-	-	-	-	-	*	1019.8	-1	ENE	1	b	43	55	4	-	-	-	-	-	*
S. Farnborough	1022.1	-3	E	3	b2fy	55	45	5	-	-	-	-	-	*	1019.9	-1	ENE	1	b2f	42	75	4	-	-	-	-	-	*
London (Kew Obsy.)	1022.1	-4	E	4	b3fy	49	55	3	-	-	-	-	-	*	1020.5	-1	E	3	b3f	43	65	2	-	-	-	-	-	*
Croydon	1022.3	-3	E	2	b2f	52	55	4	-	-	-	-	-	*	1020.9	0	E	1	b2f	41	75	4	-	-	-	-	-	*
	1H. G.M.T. of 22nd														7H. G.M.T. of 22nd													
Renfrew ...	1018.5	0	NE	2	b3f	33	85	2	-	-	-	-	-	*	1018.3	-1	E	1	b3f	29	85	2	-	-	-	-	-	*
Eskdalemuir ...	1020.6	-1	N	2	bz	30	65	5	-	-	-	-	-	*	1019.8	-1	N	1	bz	25	75	7	-	-	-	-	-	*
Valencia (Cahirc'n)	1011.3	-1	SSE	3	b	48	*	*	*	*	*	*	*	2	1011.9	+2	SSE	3	oz	48	92	6	1250	Sr	9	-	-	*
Baldonnel ...	1014.9	-1	E	2	b2f	43	92	4	-	-	-	C Sr	3	*	1014.9	0	SE	2	b2f	44	85	6	2,000	Sr	3	Ci	1	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.8	0	E	2	b3fx	35	85	3	-	-	-	-	-	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.1	+1	NE	1	bmx	26	85	3	-	-	-	-	-	*
Falmouth ...	1014.8	0	SE	1	bw	46	94	4	-	Cu	2	-	-	x	1015.5	+2	SE	2	bc2fw	44	92	5	4200	StCu	5	-	-	*
Calshot (Hants)...	1018.3	0	NE	4	b2f	41	92	6	-	-	-	-	-	3	1018.4	0	ENE	4	b	41	92	6	3,000	StCu	3	-	-	3
Lympne (Folkestone)	1020.2	-1	E	3	b2f	39	85	5	-	-	-	-	-	*	1020.8	+1	SSE	4	cif	41	85	6	3,000	StCu	4	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.2	0	S	3	o1fe	42	85	6	1250	Sr	9	-	-	3
Howden ...	1021.4	-1	E	3	bmw	36	94	4	-	-	-	-	-	*	1021.0	0	ENE	1	o4f	33	94	0	<500	Sr	10	-	-	*
Cranwell (Lincs)	1021.5	-1	E	1	b	34	94	4	-	-	-	-	-	*	1021.3	0	E	1	o6f	28	94	1	<500	Sr	10	-	-	*
Felixstowe ..	1021.8	-2	ENE	3	bw	42	94	5	-	-	-	-	-	1	1021.5	+1	E	2	f	42	94	6	4200	StCu	10	-	-	0
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.4	0	E	1	bc2fe	38	85	5	5400	StCu	2	ACu	3	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.7	+1	-	0	bx2f	28	94	4	-	-	-	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.8	+1	E	1	b4fe	24	94	2	3,000	Sr	2	Ci	1	*
London (M.O. at 1H.)	1020.5	-1	*	*	*	38	*	*	*	*	*	*	*	*	1020.2	+1	ENE	1	cmx	35	92	2	3,000	Sr	4	ACu	3	*
Croydon ...	1020.3	-1	-	0	b3fx	30	94	2	-	-	-	-	-	*	1020.4	0	S	2	o2f	41	85	4	3,000	StCu	9	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather	Barometer at M.S.L. mb.	Barometer ‡ Change in 3 hours.	Temperature Temp. °F.	Temperature Change in 24 hours.	Wind Direc	Wind Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning.	Weather Afternoon	Weather Night.	Sunshine Hours.
	18H. G.M.T. of 21st					7H. G.M.T. of 22nd									24 HOURS ENDED 7H. 22nd						21st
Lerwick ...	1020.0	43	S	5	c	1018.6	-1	44	+4	S	5	S	bc	4	-	44	34	bcq	bc	cq	*
Stornoway ...	1014.2	43	-	0	bcif	1012.3	0	44	+5	SSE	6	.	cq	5	-	48	40	cbc	bcz	bc. cq	4.1
Castlebay (Barrals)	1013.5	47	SE	4	cm	1012.1	0	44	+3	SE	5	-	opm	6	-	48	43	o	obcm	c.b.opm	2.0
Malin Head ...	1013.6	46	SSE	3	bcif	1012.5	0	45	+4	S	4	S	cm	3	-	49	38	bm	bcm	cm.bcm.cm	5.6
Blacksod Point	1009.8	48	SE	3	oif	1009.6	0	50	+10	S	4	.	bc	3	0.2	50	39	o	om	o.c	*
Roche's Point...	1013.1	48	SSE	3	o	1013.4	+2	47	0	SE	3	.	o	3	-	49	45	omgoz	oz	om	*
Birr Castle ...	1013.0	46	SE	2	c	1013.0	*	47	+4	SE	1	.	o	*	.	49	39	c.o	c	o	1.4
Donaghadee ...	1016.6	47	SSE	3	bm	1016.2	+2	44	+2	S	2	.	bm	3	-	49	42	bcm	bcm	bcm	*
Liverpool (Bidston)	1018.9	45	SE	2	b	1018.5	+1	33	-1	SE	3	-	b	3	-	49	32	obcbm	bm	bm	4.5
Holyhead ...	1016.5	48	S	2	bif	1016.0	0	40	+6	S	3	-	bz	1	TRACE	54	33	bm	bm	bmz.bxz	9.0
Pembroke (St. Ann's Head)	1015.4	47	ESE	5	b	1016.5	+1	43	+2	ESE	3	.	c2f	3	.	49	42	bz	bz	bz	8.3
Scilly (St. Mary's)	1014.6	50	SE	4	bif	1014.6	+1	44	-1	SSE	1	.	b	3	.	53	46	bc bm	bm	bm	8.4
Jersey (St. Aubin)	1016.7	49	ESE	3	b	1018.0	+1	46	+4	SE	3	.	o	3	-	52	42	b	b.	bm.o	9.3
Portland Bill ...	1017.3	46	E	5	b	1017.3	0	46	+1	E	4	.	b	5	-	48	38	b	b	b	*
Dungeness ...	1020.6	44	E	3	b	1020.2	+2	44	+4	-	0	.	c	3	-	48	40	b	b	b.o.c	*
Wick	1017.4	43	S	5	b	1014.4	-2	42	+4	S	4	.	b	5	-	44	35	ombm	bmq	bcq.bmq	*
Nairn	1017.1	45	SSW	1	bc	1016.1	*	39	+12	SW	1	.	b	1	-	47	25	bc	bz	bcz	8.2
Leith	1019.3	43	SE	1	b	1018.0	0	34	+4	SSE	1	.	b	1	-	46	30	bz	m.b	b	*
Tynemouth ...	1023.0	42	S	2	bc	1020.8	-1	36	-1	SW	1	.	b3f	2	.	43	35	bcm	bcm	bm	*
Spurn Head ...	1022.0	43	SE	5	b	1020.9	-1	41	+1	SE	4	.	bmw	3	TRACE	45	34	bc	bcb	bzw	*
Yarmouth (Gor Isles)	1023.3	42	SE	3	b	1022.1	+1	41	+1	S	4	.	bm	2	-	45	40	bm	bm	bm	9.4
Clacton-on-Sea	1021.8	43	ENE	3	b	1020.5	+1	42	+1	ENE	2	.	cm	2	.	47	41	b	b	bm.cm	9.1
Nottingham ...	1021.1	43	E	2	b	1020.3	*	30	-4	E	1	.	fex	*	-	49	34	ocbc	b.	b	6.1

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

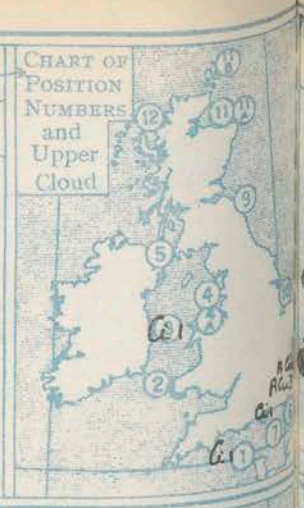
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 22. 2. 21.

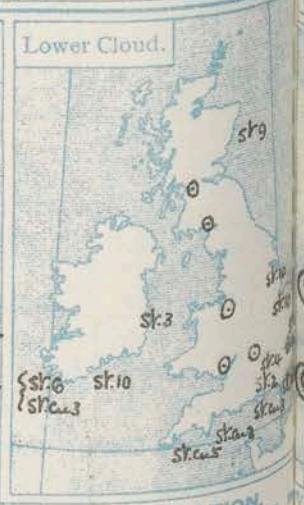
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Variable sky, some mist and fog.	Poor	Slight
2. E. England	Variable sky, some fog inland.	Indif.	Smooth
3. E. Midlands	Mainly fine, with mist or fog. Frosty.	Bad.	-
4. W. Midlands	Fine, misty, frosty.	V. Poor	-
5. S.W. England	Fine or fair, some mist.	Fair.	Moderate
6. South Wales	Fine to cloudy, misty.	Indif.	Slight
7. North Wales	Fine, hazy.	Fair.	Smooth
8. N.W. England	Fine, misty.	Var.	Slight
9. N. Midlands	Mainly fine, some mist or fog. Frosty.	V. Poor	-
10. N.E. England	Mainly fine. misty.	Poor.	Smooth
11. E. Scotland	Variable sky, local mist.	Fair.	Slight
12. S.W. Scotland	Fine. misty.	Var.	Slight
13. Isle of Man	Fine, misty.	Fair.	"
14. N.& N.W. Scotland	Variable sky, local mist	Fair.	R. Rough
15. Hebrides	Dull, local showers and squalls.	"	"
16. Orkneys and Shetlands	Fair.	"	"
17. N.W. Ireland	Fair or cloudy.	"	Slight
18. N.E. Ireland	Fine to cloudy, misty.	"	"
19. S.E. Ireland	Fair to dull.	"	Slight
20. S.W. Ireland	Dull, misty.	Indif.	"

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea. °F	Air °F
5	21st	0816	46	41
3	"	1015	48	48
6	"	1500	48	49
7	22nd	0400	48	48
4A	"	0420	42	40



Barometric change from 4 h. to 7 h. (half millibars).



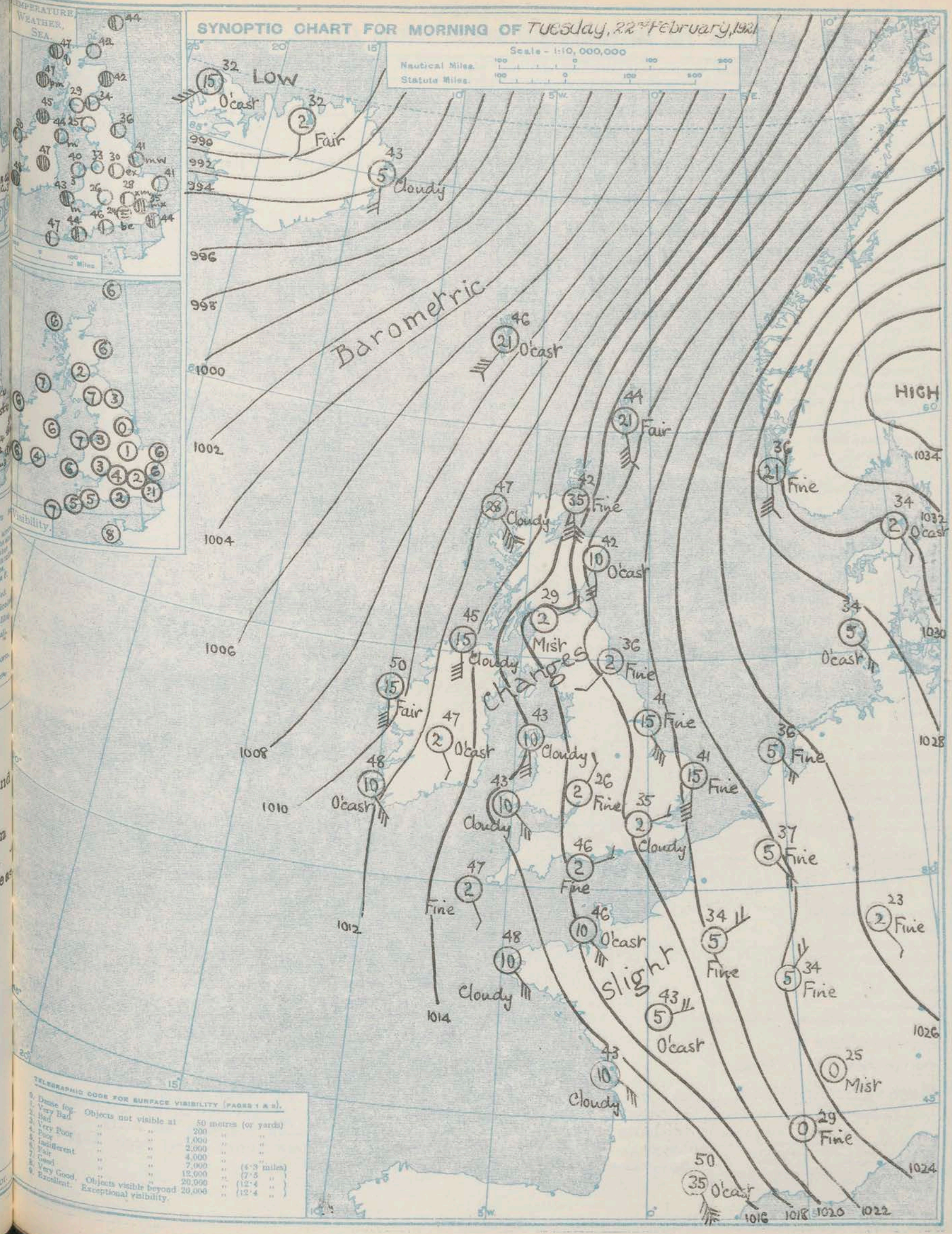
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
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 sea.

GENERAL INFERENCE from observations received up to 9h.

Changes in progress are slight and South to South-East winds are are probable for another day or two with fine weather generally and inland frost at night in some places accompanied by fog.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday 22nd. February 1921.	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	Moderate South-Easterly winds; fair to fine; visibility indifferent to fair during the day, fog locally at night; frost inland at night but mild during the day.	Over England and Scotland the weather will probably remain fair to fine with Southerly winds for at least two days.
9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland	Moderate Southerly winds; fair to fine; visibility indifferent to fair during the day, but fog locally at night; mild by day, frost inland at night.	
15. Hebrides 16. Orkneys and Shetlands	Moderate to fresh Southerly winds; cloudy; visibility fair; mild.	
17. N.W. Ireland	SAME AS 9 - 14.	
18. N.E. Ireland	SAME AS 16	
19. S.E. Ireland	SAME AS 9 - 14.	
20. S.W. Ireland	SAME AS 15.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 10.00 E.V.N. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Tuesday, 22nd February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility.
LOW
HIGH
Barometric
Changes
Slight
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. " " 20,000 " (12·4 ")
9. Excellent. Objects visible beyond Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 53. {Tuesday 22nd February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 20-21st	Rainfall. Day. 9h-18h. 21st	Sunshine. Sunrise to Sunset. 21st
Scotland.	Banff	b	b	44	27	-	-	7.8
England, N.E.	Harrogate	ob	b	46	34	-	-	4.3
	Skegness	b	b	45	38	-	-	8.8
England, E.	Lowestoft	b	b	46	39	-	-	9.2
	Felixstowe	b	bm	46	40	-	-	9.3
	Southend-on-Sea	wf	b	49	37	-	-	8.8
England, S.E.	Tunbridge Wells	b	b	54	35	-	-	8.8
	Margate	b	b	47	37	-	-	8.7
	Ramsgate	*	*	45	37	-	-	8.7
	Folkestone	b	b	47	37	-	-	9.1
	Hastings	b	b	49	39	-	-	9.1
	Eastbourne	b	b	46	35	-	-	9.1
	Brighton	b	b	53	40	-	-	9.0
	Worthing	b	b	50	37	-	-	9.3
	Portsmouth (S'thsea)	-	-	50	38	-	-	9.2
	Bournemouth	*	*	51	36	-	-	9.4
		*	*					
England, N.W.	Blackpool	b	b	51	33	-	-	8.3
Midlands.	Leamington Spa	b	b	51	32	-	-	6.8
	Bath	b	b	56	30	-	-	8.6
Wales.	Rhyl	bc	bcc	51	33	-	-	8.3
	Colwyn Bay	-	-	56	30	-	-	8.7
	Llandudno	b	b	57	36	-	-	8.8
	Aberystwyth	b	b	56	40	-	-	9.1
England, S.W.	Weymouth	b	b	52	39	-	-	8.7
	Torquay	wb	b	52	44	-	-	8.4
	Paignton	b	b	52	44	-	-	8.0
	Penzance	b	b	52	41	-	-	8.0
	Bude	b	b	57	42	-	-	7.9
	Ilfracombe	b	b	56	40	-	-	9.9

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 21st	Weather. 18h-18h 21st	Weather. 18h 21st-1h 22nd	Weather. 1h-7h 22nd	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew	b 3f	b3f bbc3f	b 3f	b3f	46	29	16	-	-	4.8
Eskdalemuir	x. b	bz	3 b	b3	52	24	20	-	-	8.0
Valencia (Cahirc'n)	z 01f	01fco	c.03	c.03	49	43	43	-	-	0.1
Baldonnel	bbc2f	bbc3f	b.bc3f	b.bc3f	52	34	30	-	-	7.7
Manchester (Alex Pk)	b2f	bz	b3f	b3fx	54	33	21	-	-	.5
Ross on Wye	3fxco2f bbc	b2f	b2f	bx	47	25	22	-	-	3.4
Falmouth	b1f	1f2f	b1f. 2bew	b.bew	51	43	33	-	-	8.5
Calshot (Hants)	b2f b1f	b1f b2f	bx b2f	b2f b1f	47	40	37	-	-	9.2
Lympne (Folkestone)	b1f	b1f b2f	b2f	b3f.b.bc1f	49	35	31	-	-	9.5
Aberdeen	03f 02f	2fe 02f	02f.	01f. 1fe	43	33	37	-	-	0.1
Howden	z co	bbcz	x(1)	b.8kx	49	27	20	-	-	7.2
Cranwell (Lincs)	6qfe.02f	b2f	3x	x3f	51	28	22	-	-	5.2
Felixstowe	1f	1f2f	2fw.	b.bc1f.qfw	46	37	31	-	0.1	9.1
Shoeburyness	b	1fe 2fe	b2fe	2fex	47	31	23	0.1	0.1	8.7
Benson	b	b	b	bx	55	27	20	-	-	*
S. Farnborough	b.03f	b2f	b3f	bx 4f3f	55	24	21	-	-	9.1
London (Kew Obsy.)	4.5f w3fb	2f b	3f. b3f	3fx	50	34	23	-	-	5.2
Croydon	~~b2fw 2f~~ b3f x 2f	b2f	bx 3f 3f	bx b02f 2f. 02f	53	29	21	TRACE	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ✕ Lunar halo ⊘ Glazed frost ⊸ Solar corona ⊙ Glazed roads ⌂ Lunar corona ⊚ Line Squall ⊠ Snow lying ⊞

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. 22nd							Yesterday.	Yesterday.	To-day.
Greenwich (Royal Observatory)	b	b	b.c. xm	52	31	23	-	8.4	92	84
City (Bunhill Row)	*	*	*	*	*	*	*	6.7	*	*
Westminster (St. James's Park)	*	*	om	53	38	31	-	6.5	50	84
Regents Park (Botanical Gdns)	*	*	*	*	*	*	*	6.1	*	*
Camden Sq. (British Rainfall)	bm	b	*	53	32	26	-	*	65	95
Kensington Palace	bc	bc	*	52	34	28	-	*	64 (18h)	92
Hampstead Observatory	*	*	*	50	36	30	-	7.5	*	90

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.
Average Rate.
Maximum Rate.

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

22nd & 23rd February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.58	12.7	5.16
	6.56	12.7	5.18
Greenwich	7.3	12.14	5.25
	7.1	12.14	5.27
Wick	7.30	12.26	5.23
	7.27	12.26	5.25
Valencia	7.45	12.55	6.5
	7.43	12.55	6.7

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 21st 18 h. 20 m. to 22nd 6 h. 0 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	30	9	47	85
δ Ursae Minoris	11	30	9	15	81

NOTES ON THE WEATHER OF YESTERDAY.

At several coast stations in the West the temperature rose to 57°, but there was sharp frost at night inland, the temperature falling to 24° at Eskdalemuir and South Farnborough Sunshine records were very good, exceeding 9 hours in many places. There was no measurable rain but there were some light showers at Castlebay in the early morning.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B. 21643 WEDNESDAY 23RD FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	Humidity. %	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 22ND														18H. G.M.T. OF 22ND													
Renfrew	1018.5	-1	NSW	2	c3f	37	85	2	-	-	-	Ac	7	*	1017.9	0	-	0	03f	41	85	2	3000	StCu	10	-	-	*
Eskdalemuir	1018.6	0	SSE	3	b y3f	47	55	5	-	-	-	-	-	*	1019.3	0	-	0	02f	41	85	5	4500	StCu	9	-	-	*
Valencia (Cahirc'n)	1015.4	+3	NNW	4	c1f	48	92	7	750	St.	10	-	-	4	1016.7	+1	NNW	3	c1f	44	92	6	1250	St.	10	-	-	4
Baldonnel	1016.2	+1	-	0	c1f	51	75	6	4200	St.	9	Ac	1	*	1016.4	+1	E	2	02f	50	85	5	1250	St.	8	A.St	2	*
Manchester (Alex Pk.)	1019.2	0	S	2	bz	51	65	4	-	-	-	-	-	*	1019.9	+1	SE	3	b4f	45	85	2	-	-	-	-	-	*
Ross on Wye	1019.6	0	NW	1	03f	42	75	3	1250	St.	10	-	-	*	1020.3	+1	ESE	1	c	44	85	4	2000	St.	8	-	-	*
Falmouth	1017.1	0	SE	2	c1f	51	92	6	-	StCu	9	-	-	*	1018.5	+3	SE	2	02f	49	92	5	-	St.	10	-	-	*
Calshot (Hants) *	1020.1	+1	SSW	2	b	54	65	8	-	-	-	Ac	1	2	1021.3	+2	ESE	3	bc1f	45	97	6	-	-	-	Ac	4	2
Lympne (Folkestone)	1022.2	+1	S	3	b1f	49	75	6	4200	Cu	1	Ac	1	*	1022.6	+1	ESE	1	b1f	46	65	6	-	-	-	Ac	1	*
Aberdeen	1019.7	-1	S	3	02f	44	85	4	1250	St.	9	-	-	3	1019.0	0	S	3	bc3f	44	92	3	1250	St.	4	-	-	3
Howden	1020.8	-2	-	0	03fe	38	97	4	750	St.	10	-	-	*	1020.9	-1	-	0	bc	37	97	4	4200	StCu	5	-	-	*
Cranwell (Lincs)	1020.8	-1	SSE	1	b2f	46	75	4	4200	Cu	1	-	-	*	1021.6	+2	SSE	1	bc2f	42	97	4	4200	CuNb	5	-	-	*
Felixstowe	1022.7	+1	S	3	b1f	47	85	6	5700	StCu	1	-	-	1	1023.4	+4	SSE	2	b2f	44	97	5	-	-	-	-	-	1
Shoeburyness	1022.0	0	SSE	1	bc1fe	51	75	6	8000	Cu	2	Ac	2	*	1022.2	0	ESE	1	b	42	85	6	-	-	-	Ac	1	*
Benson	1019.2	0	SSE	3	b	54	65	5	-	-	-	-	-	*	1021.1	+1	SSE	2	b	48	85	7	-	-	-	-	-	*
S. Farnborough	1020.5	+1	SSE	2	bcm	56	65	7	4200	Cu	4	-	-	*	1021.5	+2	SSE	1	b2f	49	75	5	-	-	-	Ac	1	*
London (Kew Obsy.)	1020.5	0	SSE	2	b2f	54	65	5	-	-	-	-	-	*	1021.8	+2	S	1	b1f	48	75	6	-	-	-	-	-	*
Croydon	1021.3	+1	S	2	b1f	56	65	6	3000	Cu	1	-	-	*	1022.1	+2	S	2	b2f	48	75	4	-	-	-	-	-	*
	1H. G.M.T. OF 23RD														7H. G.M.T. OF 23RD													
Renfrew	1018.6	0	-	0	02f	44	85	4	4200	St Cu	10	-	-	*	1018.0	-1	ESE	2	02f	46	92	5	2000	St	10	-	-	*
Eskdalemuir	1021.2	0	-	0	03fe	28	85	2	-	-	-	-	-	*	1020.6	0	-	0	03f	34	92	2	2000	St	10	-	-	*
Valencia (Cahirc'n)	1017.0	0	NNW	2	bc	42	*	*	*	*	*	*	*	0	1016.3	0	S	3	02d	42	85	8	2000	St	10	-	-	4
Baldonnel	1018.3	+2	SSE	1	02f	41	92	4	2000	St Cu	8	A St	2	*	1017.5	0	-	0	01f	44	92	7	3000	St Cu	9	-	-	*
Manchester (Alex Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.1	-1	NNE	3	bc3f	36	92	3	-	-	-	A St	4	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	0	E	1	03f	38	92	3	3000	St Cu	10	-	-	*
Falmouth	1019.9	+1	SE	1	02fe	47	97	5	-	St Cu	9	-	-	*	1019.7	0	SE	1	03fe	46	97	2	-	St	10	-	-	*
Calshot (Hants)	1022.2	0	E	3	01f	45	92	6	3000	St Cu	10	-	-	2	1022.1	0	E	2	01f	45	92	6	3000	St Cu	10	-	-	1
Lympne (Folkestone)	1022.6	+1	S	3	c1f	44	75	6	5700	St Cu	7	-	-	*	1023.8	0	SSE	3	c1f	43	75	6	5700	St Cu	7	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.0	0	SSW	2	b3fex	40	92	2	-	-	-	-	-	2
Howden	1021.6	0	-	0	01fe	36	97	2	<500	St	8	A Cu	2	*	1021.2	+1	SE	1	03f	39	92	3	1250	St	10	-	-	*
Cranwell (Lincs)	1023.0	+1	SSW	2	bc	39	97	4	3000	St Cu	6	-	-	*	1023.1	0	S	1	02f	40	97	4	2000	St	8	A St	2	*
Felixstowe	1024.2	+1	SSE	2	02fe	45	92	5	5700	St Cu	10	-	-	1	1024.4	+1	SE	2	c	43	92	5	5700	St Cu	8	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.2	0	-	0	c1fe	41	85	6	-	-	-	A Cu	7	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	0	SE	1	0	45	85	5	-	St Cu	10	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.5	0	SE	2	0m	45	75	5	3000	St Cu	10	-	-	*
London (M.O. at 1H.)	1022.7	0	*	*	*	46	*	*	*	*	*	*	*	*	1022.7	0	SE	1	c2f	46	75	4	3000	St	4	A Cu	3	*
Croydon	1022.1	0	S	2	02f	47	93	5	3000	St Cu	10	-	-	*	1023.2	0	SSE	3	bc2f	44	75	5	4200	St Cu	2	A Cu	2	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 22ND					7H. G.M.T. of 23RD									24 HOURS ENDED 7H. 23RD						22ND
Lerwick	1016.4	44	S	4	cq	1016.6	-2	45	+1	S	4	S	02f	3	-	46	37	bcq	cq	bcq.c	-5
Stornoway	1013.8	46	SSW	5	o	1012.5	0	46	-1	SSW	4	-	o	3	4	48	44	o	o	od.bo	0.0
Castlebay (Barrals)	1013.8	44	NW	3	op	1012.8	0	46	-1	SSW	4	-	odp	4	1	48	44	opm	opmop	op.odp	0.0
Malin Head	1014.2	47	S	2	omr.	1013.7	0	45	0	S	3	-	of	3	1	~~42~~ 49	44	om	om	omd.ome	0.1
Blacksod Point	1015.1	45	NW	1	c	1014.2	-2	43	-7	S	3	-	c	3	1	51	40	bcp	o	bc	*
Roche's Point	1016.8	48	-	0	b	1018.0	0	45	-2	-	0	-	o	1	1	53	45	odom	bc bm	bc.o	*
Birr Castle	1015.4	48	SSE	1	o	1016.5	*	44	-3	SSW	1	-	o	*	3	50	42	odr	c.opr	c.o	0.0
Donaghadee	1016.5	47	SSW	2	cm	1016.1	0	46	+2	SW	2	-	om	2	-	49	43	bcm	cm	om	*
Liverpool (Bidston)	1018.9	44	SE	3	m	1019.9	0	42	+9	SE	2	SE	bc	2	-	48	33	bm	bm	b.bc	7.5
Holyhead	1017.5	48	SSW	3	bz	1018.3	0	48	+8	S	4	-	oq	2	-	54	38	bz	bz	b.bc.c.o	8.0
Pembroke (St. Ann's Head)	1018.7	47	ESE	2	o2f	1019.3	0	47	+4	ESE	3	-	o	3	-	49	42	cz	om	om.o	4.5
Scilly (St. Mary's)	1017.8	50	-	0	c	1018.4	0	49	+2	SSE	3	-	o	3	-	53	46	bbcom	omc	c.om	1.7
Jersey (St. Aubin)	1020.0	51	SE	3	b	1020.9	0	47	+1	ESE	2	-	b	2	-	55	46	ocb	b	b.o.b	8.3
Portland Bill	1020.1	48	E	4	c	1021.0	0	47	+1	ENE	3	-	bc	4	-	52	45	bcb	bcc	c.bc	*
Dungeness	1021.6	45	NE	2	b	1023.1	0	44	0	ESE	3	SE	bc	4	-	51	43	cbc	bc bz	bc.b.bz	*
Wick	1014.7	43	S	6	mbcq	1014.4	-2	44	+2	SSW	3	-	cm	3	-	45	40	bcmq	bcmq	bcmbm	*
Nairn	1015.6	45	-	0	bc	1014.9	*	46	+7	-	0	-	cmq	1	-	52	38	bz	bbcz	bc.cm	7.6
Leith	1018.0	41	SSE	1	bc	1018.4	0	40	+6	NW	1	-	oh	1	-	47	32	bm.bc	bcm.c	bc.cm	*
Tynemouth	1019.8	42	SW	1	bc3f	1020.6	0	36	0	WSW	2	-	5fe	2	-	44	35	f	bcf	bf	*
Spurn Head	1021.0	42	SE	2	bm	1021.9	0	43	+2	SSE	2	-	ome	2	2	46	38	bz	bcm	bm.omq	*
Yarmouth (Gorleston)	1022.3	42	SSW	3	b	1023.9	0	41	0	S	2	-	bc2f	1	-	47	40	bcmbm	bmbf	b.bmcm	7.2
Clacton-on Sea	1022.7	45	ESE	1	bc	1023.6	0	44	+2	ESE	2	-	cm	4	-	48	42	cbcm	bcm	bc.bcm	4.4
Nottingham	1020.9	41	SE	1	cm	1022.0	*	39	+9	SE	1	S	omr	2	0.1	43	29	fmb	becm	bcf	0.3

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

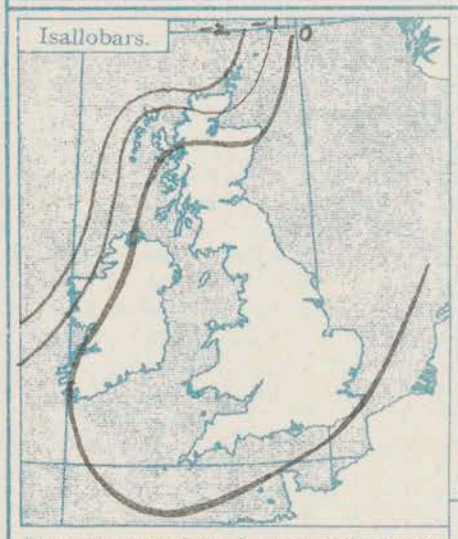
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 23. 2. 21.

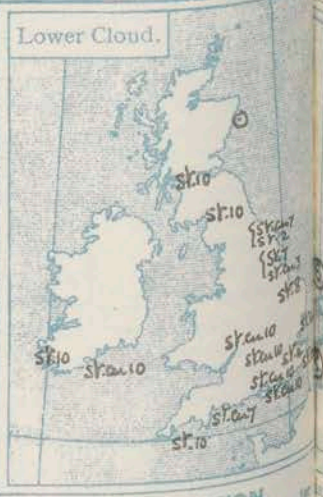
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to overcast, misty.	Indif.	Mod.
2. E. England	Fair to overcast, misty.	Indif.	Slight
3. E. Midlands	Overcast, local mist.	Poor.	-
4. W. Midlands	Mainly overcast, local mist.	"	-
5. S.W. England	Fair to dull, local mist.	Var.	Slight
6. South Wales	Dull; mist inland.	"	"
7. North Wales	Fair to dull; mist inland	"	Smooth
8. N.W. England	Fair to dull; local mist.	"	Smooth
9. N. Midlands	Mainly overcast, misty.	Poor.	-
10. N.E. England	Overcast, local mist or fog.	V.Poor	Smooth
11. E. Scotland	Variable sky, misty.	V.Poor	Smooth
12. S.W. Scotland	Dull, misty.	Poor.	Slight
13. Isle of Man	Dull.	Fair.	Slight
14. N.& N.W. Scotland	Cloudy or dull, misty.	Indif.	Slight
15. Hebrides	Dull, local showers.	Fair.	Mod.
16. Orkneys and Shetlands	Cloudy or dull, misty.	V.Poor	Slight
17. N.W. Ireland	Cloudy.	Fair.	"
18. N.E. Ireland	Dull, misty.	"	"
19. S.E. Ireland	Dull.	Good.	"
20. S.W. Ireland	Dull, local showers.	Good.	Mod.

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
5	22ND	0821	46	48
3	"	0945	48	48
1	"	1230	50	54
8	"	1252	48	45
2	23RD	0200	50	49
7	"	0300	56	61
4A	"	0400	45	45
10	"	0430	43	45



Barometric change from 4 h. to 7 h. (half millibars).



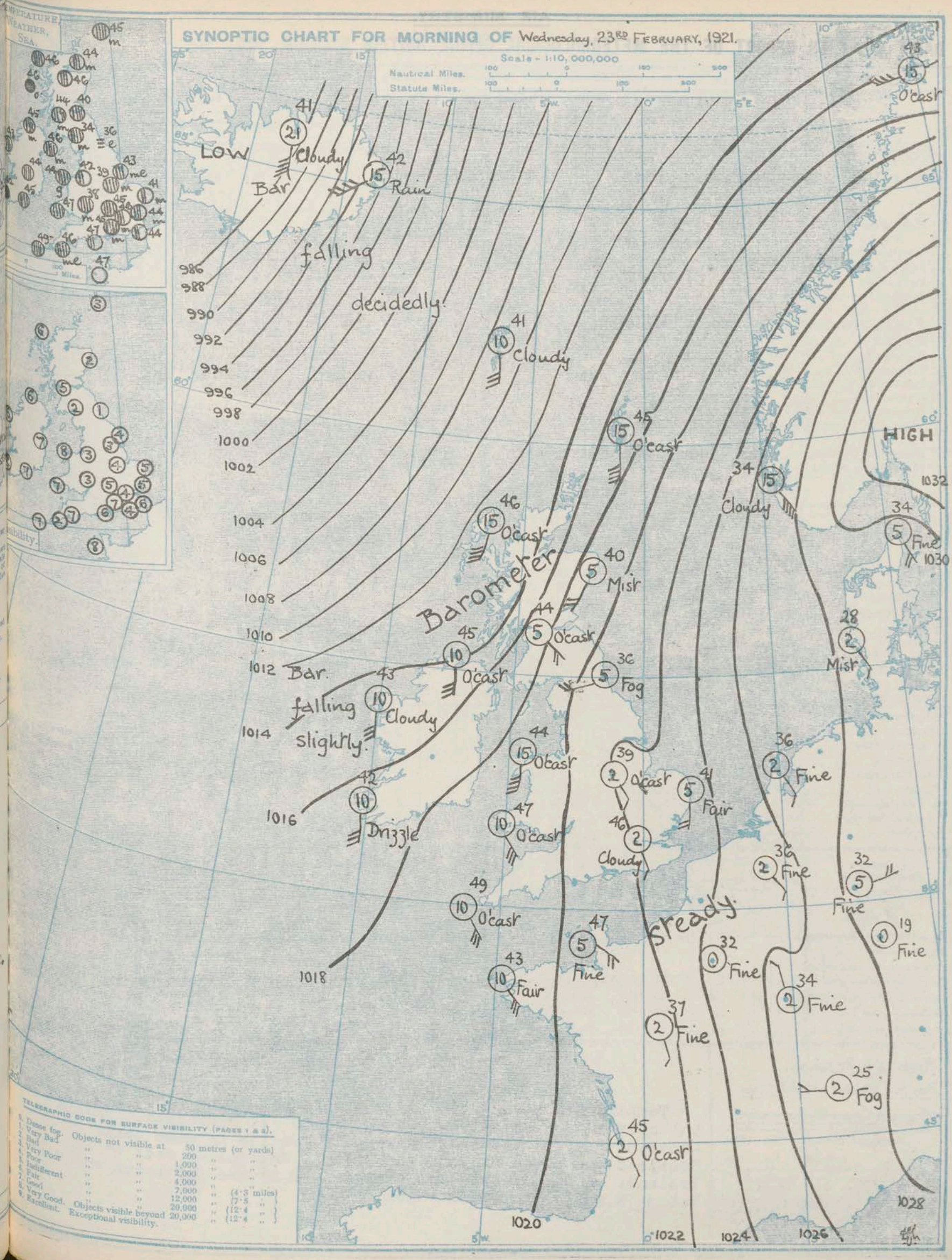
EXPLANATION.
BAROMETER.—Isobars are drawn for intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
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

GENERAL INFERENCE from observations received up to 9h.

It appears probable that depressions on the Atlantic will approach nearer to these Islands and cause some rain over our Western districts, but in the East and South-East fair to cloudy or dull but dry weather is still to be expected for a time.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 23rd. February 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind mainly South, light to moderate; fair or cloudy. Visibility fair. Milder than of late.	
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind South to South-West, light or moderate to fresh. Cloudy or overcast, some rain or drizzle later. Visibility mainly fair. Mild.	Rather mild weather with winds from between S and SW.
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind S or SW, light to moderate, fresh locally. Fair to overcast. Visibility fair. Milder.	
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 South to South-West, light to fresh, stronger locally. Visibility mainly fair. Much cloud, some rain or drizzle. Mild.	

RS



TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).

0. Dense fog.					
1. Very Bad	Objects not visible at		50 metres	(or yards)	
2. Bad	"	"	200	"	"
3. Very Poor	"	"	1,000	"	"
4. Poor	"	"	2,000	"	"
5. Indifferent	"	"	4,000	"	"
6. Fair	"	"	7,000	"	(4·3 miles)
7. Good	"	"	12,000	"	(7·5 ")
8. Very Good.	"	"	20,000	"	(12·4 ")
9. Excellent.	Objects visible beyond Exceptional visibility.		20,000	"	(12·4 ")

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 341

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 21ST-22ND	Rainfall. Day. 9h-18h. 22ND	Sunshine. Sunrise to Sunset. 22ND
Scotland.	Banff	cbc	b	46	38	-	-	5.2
England. N.E.	Harrogate	mb	bm	39	32	-	-	1.0
	Skegness	bopb	b	49	30	-	0.1	7.4
England. E.	Lowestoft ...							
	Felixstowe	bc	bm	49	39	-	-	7.5
	Southend-on-Sea ..	bcb	b	56	36	-	-	8.0
England. S.E.	Tunbridge Wells	b	b	56	37	-	-	8.2
	Margate	b	b	57	40	-	-	7.7
	Ramsgate	*	*	53	39	-	-	7.6
	Folkestone	b	b	56	36	-	-	7.2
	Hastings	bbc	b	52	47	-	-	7.7
	Eastbourne	b	b	53	36	-	-	7.3
	Brighton	bbc	bccb	53	43	-	-	6.5
	Worthing	bbc	bcb	53	40	-	-	7.3
	Portsmouth (S'thsea)			55	39	-	-	8.4
	Bournemouth ...	*	*	54	34	-	-	6.5

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 21ST-22ND	Rainfall. Day. 9h-18h. 22ND	Sunshine. Sunrise to Sunset. 22ND
England. N.W.	Blackpool	b	bc	52	33	-	-	7.9
Midlands.	Leamington Spa...	bc	b	53	27	-	-	4.5
	Bath	bbc	acbcb.	56	31	-	-	3.8
Wales.	Rhyl	bc	bcc	55	32	-	-	7.5
	Colwyn Bay ...			57	33	-	-	7.5
	Llandudno	*	*	57	37	-	-	6.5
	Aberystwyth ...	b	b	57	40	-	-	8.2
England. S.W.	Weymouth	bcc	co	53	38	-	-	1.2
	Torquay	oc	cbcb	53	45	-	-	1.8
	Paignton	omc	obc	52	41	-	-	1.7
	Penzance	bcc	co	51	43	-	-	0.7
	Bude	b	b	54	43	-	-	4.8
	Ilfracombe	bbc	bccpo	54	42	-	1	~~0.8~~ 6.7

STATIONS.	Summaries for past 24 Hours. Weather. 7h-18h 22ND	13h-18h 22ND	18h 22ND-1h 23RD	1h-7h 23RD	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	bbcc3f×	co3f	o3f. o2f	o2f	48	28	36	-	-	0.0
Eskdalemuir	b2f	b.co	b. bcx.	b.o.o3f	36	24	22	-	-	8.3
Valencia (Cahire'n) ...	o1fco	o1fpd.	o	bc.c2.0	51	37	38	-	-	0.0
Baldonnel	bcco1f2f.	o1fp.	2f	o2f.o	22	41	34	-	-	2.5
Manchester (Alexandra Park) ...	b3f b2f	bo3f b4-5f	b.b. bc4-5f	b.c.o 4f bcc3f	34	35	26	-	2	3
Ross on Wye... ...	bbcxbcc3f	o2coz	c.o3f	c.o3f.o3f	47	25	29	-	-	2.8
Falmouth	o2fo1f	o1fo2f	b.o1fc 2fc	o2f.o2f	51	46	38	-	-	0.2
Calshot (Hants)... ...	bbc1f2fb	bbo1f bcc1f	b. bc. o1f	o1f	45	40	41	-	-	1.1
Lympne (Folkestone) ...	bcc1fbbc1f	b1fbbo1f	b.bc1f. bc.c1f	bc.o.1f	52	44	31	-	-	1.0
Aberdeen	2fc o2f	2fc 3fc	3fc. 4-5fc	4-5fx.	44	25	28	-	-	0.1
Howden	4-5fc o	co3fc	4-5fx.	3fc	42	30	24	-	-	2.1
Cranwell (Lincs)	4-5f bbc	bcc	b b. bc	c.op	51	26	34	0.1	0.2	5.8
Felixstowe	bbc1f	b2f	c.o2f	c.b2f	50	38	32	-	-	4.2
Shoeburyness	4-5fc 2fc 1fc	1fc bbc	b. bcx.	x. 1fc	54	34	26	Trace	-	6.6
Benson	bbc b	b	bc.co	c.o.o	56	27	28	-	-	*
S. Farnborough ...	bbc b	bbc1f bbc2f	b. bc bc.c	c.o o2f	57	24	30	-	-	8.1
London (Kew Obsy.) ...	xw bbc4-5f	2f 1f	c.o3f	o3f. 2fc c.o	54	34	28	0.1	Trace	6.5
Croydon	cobbc b2f 3f 3f bbc1f	bbc1f bbc2f	b2f. b. bc.c (0 o2f	c.o2f. bc.c2f	57	34	26	Trace	Trace	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetitions of letters continuity, thus:—
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-32·6
12	Above 75	32·6 or above

SYMBOLS— Solar halo ⊕ Aurora ⌂ Rime ⚹ Lunar halo ☽ Glazed frost ⌒ Solar corona ☼ Glazed roads ⌂ Lunar corona ☾ Line Squall ⊗ Snow lying ▦

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 23RD							Yesterday.		To-day.
Greenwich (Royal Observatory)	b	b	b.ox.	59	41	27	-	7.9	59	73
City (Bunhill Row)	*	*	*	*	*	*	*	4.1	*	*
Westminster (St. James's Park)	*	*						3.3		
Regent's Park (Botanic Gdns)	*	*	*	*	*	*	*	5.0	*	*
Camden Sq. (British Rainfall)	bcm.f. bc	bo.o	*	57	36	26	-	*	57	84
Kensington Palace	bc	bc	*	53	34	33	0.2	*	81 (18h)	73
Hampstead Observatory ...	*	*	*	56	38	31	-	4.8	*	80

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

23RD to 24TH FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.56 / 6.53	12.7 / 12.6	5.18 / 5.17
Greenwich	7.1 / 6.58	12.14 / 12.13	5.27 / 5.26
Wick ...	7.17 / 7.24	12.26 / 12.25	5.22 / 5.17
Valencia ...	7.13 / 7.11	12.35 / 12.34	5.7 / 5.8

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 22ND 18h. 30m. to 23RD 6h. 0m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	30	3	8	27
δ Ursae Minoris	11	30	2	47	24

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 55° or above in the South and South-West, but only to 43° at Nottingham and to 39° at Harrogate. Bright sunshine records were high generally but low in some parts of Scotland and South-Western and Central England as well as in Ireland. A little rain was experienced in the far North and West, but as a whole the weather was dry.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21644 THURSDAY 24th FEBRUARY 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Temp. °F.	Humidity. %	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form.	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 23RD														18H. G.M.T. OF 23RD													
Renfrew	1017.9	0	SE	3	02f	48	85	5	1250	St	10	-	-		1018.1	+1	S	2	or 3f	46	97	3	1250	Nb	10	-	-	*
Eskdalemuir	1019.4	-1	S	2	03f	45	92	3	2000	St	10	-	-	*	1019.8	+1	SSW	2	od m	44	85	5	2000	Nb	10	-	-	*
Valencia (Cahirc'n)	1016.0	0	S	4	c	47	85	8	1250	StCu	6	A St	2	4	1016.5	+1	SSW	3	o	46	85	8	2000	StCu	3	A St	7	4
Baldonnel	1017.3	-1	S	3	or	51	85	5	1250	StCu	7	ACu	3	*	1017.3	+1	SSW	2	c f	48	85	6	1250	St	4	A St	3	*
Manchester (Alex. Pk)	1020.5	-2	S	3	bc z	56	75	5	2000	Cu	5	-	-	*	1020.7	+1	S	3	o 3f	51	75	2	3000	StCu	9	-	-	*
Ross on Wye	1020.5	-1	SSW	2	by	59	55	7	5700	Cu	1	-	-	*	1021.1	+1	S	1	b	52	75	7	4200	CuN	3	-	-	*
Falmouth	1019.8	+1	SE	2	c	52	85	7	-	StCu	8	-	-	*	1020.2	+1	SSE	2	o 2f	49	92	4	-	St	10	-	-	*
Calshot (Hants)	1022.5	0	E	4	b	50	85	6	-	-	-	-	-	3	1023.4	+2	ESE	3	cb 1f	46	97	6	[illegible]	[illegible]	[illegible]	A Cu	2	2
Lympne (Folkestone)	1024.0	+1	SE	3	b 1f	49	65	6	-	-	-	ACu	3	*	1023.9	0	ESE	1	cy 2f	49	65	5	7200	StCu	4	ACu	4	*
Aberdeen	1018.8	-1	S	2	c 2fe	46	85	4	2000	StCu	8	-	-	2	1018.7	0	S	2	bc 3fe	46	85	2	2000	StCu	6	-	-	2
Howden	1021.9	-1	SSE	4	c	54	65	4	7200	St	5	ACu	3	*	1022.3	+2	SSE	2	bc	44	85	7	3000	St	3	A St	2	*
Cranwell (Lincs)	1022.4	-1	S	2	bc	51	75	5	5700	StCu	2	ACu	2	*	1022.9	+2	SSE	2	b 2f	42	97	5	-	-	-	ACu	2	*
Felixstowe	1024.5	-1	SSE	2	bc 2f	49	85	5	-	-	-	ACu	5	0	1024.5	+1	SSE	3	bc 2f	46	85	5	-	-	-	ACu	6	1
Shoeburyness	1023.5	0	ESE	2	bc 1fe	51	65	6	-	-	-	CiCu	4	*	1023.4	0	SE	1	bc 1fe	45	75	6	-	-	-	CiCu	4	*
Benson	1021.6	0	SE	2	c	53	65	5	-	StCu	8	-	-	*	1022.0	+1	-	0	b	48	85	4	-	-	-	-	-	*
S. Farnborough	1022.4	0	SSE	2	b 2f	58	65	5	-	-	-	ACu	3	*	1022.7	+1	SE	2	bm	51	85	5	-	-	-	CiCu	3	*
London (Kew Obsy.)	1022.7	-1	SSE	3	cy 2f	55	55	5	-	-	-	ACu	7	*	1023.0	+2	SE	2	bz	52	75	3	-	-	-	CiCu	1	*
Croydon	1023.1	0	S	3	o 2f	56	65	5	5700	StCu	6	A St	3	*	1023.2	+2	SSE	3	bc 2f	51	65	5	-	-	-	CiCu	5	*
	1H. G.M.T. OF 24TH														7H. G.M.T. OF 24TH													
Renfrew	1019.8	+1	S	2	c	45	97	6	1,250	StCu	8	-	-	*	1020.7	+1	SE	2	o 2f	46	92	5	1,250	Cu	10	-	-	*
Eskdalemuir	1021.2	+1	S	1	o 2f	44	92	4	2000	St	10	-	-	*	1022.0	0	-	0	o 3f	42	92	3	2000	St	10	-	-	*
Valencia (Cahirc'n)	1018.1	0	SSE	2	omr	46	*	*	*	*	*	*	*	2	1018.1	+1	SSE	2	or	46	97	7	750	St	10	-	-	3
Baldonnel	1019.6	+2	S	3	o 1f	47	85	6	2000	St	10	-	-	*	1019.6	0	-	0	o 1f	45	85	7	1,250	StCu	10	-	-	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.6	0	E	1	o 2f	45	85	4	3000	StCu	5	aCu	5	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.7	0	E	1	omw	38	97	5	4,200	StCu	10	-	-	*
Falmouth	1020.9	0	SE	2	c 3fe	48	97	3	-	StCu	7	-	-	*	1020.1	0	SE	2	o 2fe	48	97	4	-	St	10	-	-	*
Calshot (Hants)	1023.7	0	ENE	1	b 2f	43	92	5	-	-	-	CiCu	1	1	1023.6	0	ENE	3	bc 2f	42	97	4	-	-	-	Ci	5	2
Lympne (Folkestone)	1025.0	+1	SE	1	bc 2f	43	75	5	-	-	-	aCu	5	*	1025.3	0	SSE	1	b 2fe	38	92	4	-	-	-	aCu	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	+1	SSW	2	or 2-3fe	46	92	2	2000	Nb	10	-	-	2
Howden	1023.4	0	SE	2	o 1f	40	92	6	2000	St	6	aSt	3	*	1023.8	+1	ESE	1	o 2f	38	92	5	3,000	StCu	10	-	-	*
Cranwell (Lincs)	1024.2	0	SSW	1	o 2f	37	97	4	-	-	-	aCu	9	*	1024.5	0	SSE	1	o 2f	36	97	4	2000	StCu	10	-	-	*
Felixstowe	1025.7	0	-	0	c 2f	42	92	5	-	-	-	aCu	8	0	1025.7	+1	-	0	b 3f	37	97	3	-	-	-	aCu	2	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.0	0	SE	1	b 2f 2	34	85	5	-	-	-	aCu	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.0	+1	SE	1	c	41	92	5	-	StCu	8	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.1	+1	SSE	3	c 2f	40	97	5	-	-	-	aSt	7	*
London (M.O. at 1H.)	1024.0	0	*	*	*	41	*	*	*	*	*	*	*	*	1024.5	+1	-	0	b 4fx	37	92	2	-	-	-	aCu	3	*
Croydon	1024.5	+1	S	2	o 2fw	47	75	4	-	-	-	aCu	9	*	1024.7	+1	S	3	b 2f	40	92	4	-	-	-	aCu	3	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 23RD					7H. G.M.T. of 24TH									24 HOURS ENDED 7H. 24TH						23RD
Lerwick	1017.0	41	SSE	3	0	1019.8	+2	45	0	S	1	-	b	1	-	46	43	bcm	o	bc. b	*
Stornoway	1013.0	45	SW	4	0	1019.1	+3	42	-4	-	0	-	or	0	6	49	41	opc	co	oy op	1.4
Castlebay (Barra Is)	1013.6	47	SW	5	0	1019.1	+2	42	0	E	2	-	op	3	6	47	42	op cop	opo	or. op	1.0
Malin Head	1014.2	47	S	2	c	1018.1	+1	48	+3	S	2	S	o	3	-	49	43	cv	cv	o	2.8
Blacksod Point	1013.7	47	S	3	o	1017.7	+3	44	+1	N	2	-	od	2	2	47	42	bc	c	omr. or	*
Roche's Point	1018.2	46	SW	2	b	1019.4	0	45	0	SSE	1	-	o	2	0.1	52	44	oco	bcb	b.o	*
Birr Castle	1016.4	46	S	1	c	1019.1	*	41	-3	S	1	-	o	*	1	52	39	o.c.	op	o	1.6
Donaghadee	1017.5	48	SW	2	cm	1020.4	+1	46	0	SW	1	-	omd	1	1	50	46	om	dm	bomp	*
Liverpool (Bidston)	1020.2	51	SSE	2	m	1021.8	0	43	+1	SSE	3	S	bc	2	-	54	42	bcm	bcm	c.bc	3.6
Holyhead	1018.9	50	SSW	4	cg	1020.6	0	47	-1	S	4	SW	c	2	-	51	46	oco	oco	bcc, oc	0.0
Pembroke (St. Ann's Head)	1020.3	47	SSE	1	o 2f	1020.5	0	46	-1	SE	3	-	om.	2	0.2	50	45	ofo	om	om.cm.omp	0.3
Scilly (St. Mary's)	1019.5	49	SSE	2	o	1019.2	-1	50	+1	SSE	3	-	o 1f	4	0.4	54	47	bcc	bco	omm.aom	3.8
Jersey (St. Aubin)	1021.1	52	SE	3	b	1022.8	0	47	0	SE	3	-	o	3	-	55	45	b	b	bw.o	9.5
Portland Bill	1021.0	49	ENE	3	b	1022.2	0	48	+1	ESE	3	-	bc	3	-	52	45	bcb	b	b bc	*
Dungeness	1023.7	48	ESE	1	bc	1024.2	0	43	-1	SE	2	-	b	2	-	50	43	bc	cb	bc.b.bz	*
Wick	1014.8	46	S	4	cm	1018.8	+2	44	0	SSW	2	-	o	2	-	47	41	cm	cm	cm.cm.o	*
Nairn	1015.1	45	SW	2	rm	1019.1	*	39	-7	-	0	-	bc	1	1	51	36	cbc cmg	cg pm	dgc.	1.7
Leith	1017.9	49	S	1	o	1020.1	0	46	+6	SSW	1	-	dm.	1	0.2	51	40	om.c.o	omr. o	omd	*
Tynemouth	1020.5	52	SE	1	c 3f	1023.1	+1	44	+8	S	1	-	o 4f	1	-	54	35	bcm	cf	bom cmqf	*
Spurn Head	1022.5	45	SSE	3	cm	1023.6	0	43	0	S	3	-	am	2	*	47	39	omp	cm	c.cm	*
Yarmouth (Gor Lodge)	1024.3	42	SSW	2	b	1025.3	0	39	-2	S	2	-	bcm	2	-	47	39	cm bcm	bcm bm	cm bmw	4.3
Clacton-on Sea	1024.0	45	ESE	3	bc	1025.0	0	42	-2	ESE	2	-	bm	1	-	45	42	c bcm	bcm	bc. bm	5.0
Nottingham	1022.3	48	S	1	b	1023.6	*	33	-6	NE	1	S	cm	*	-	58	31	c bcm	bm	b	4.2

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

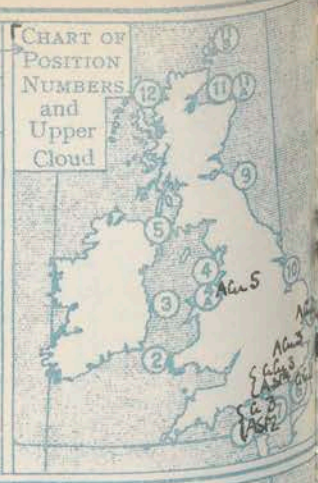
M.O. FORM 2370

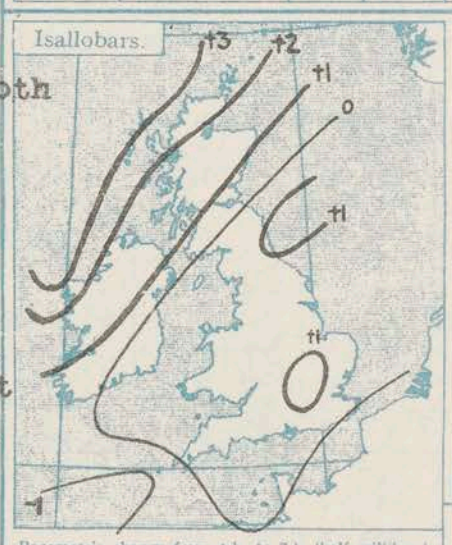
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 24.2.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Mainly fine or fair; mist or fog.	Poor	Smooth
2. E. England	Variable sky; misty.	"	"
3. E. Midlands	Cloudy; misty	"	---
4. W. Midlands	Cloudy or Overcast; misty	"	---
5. S.W. England	Mainly dull, local mist.	Indiff.	Slight
6. South Wales	Dull, misty	"	Smooth
7. North Wales	Fair or cloudy	Fair	"
8. N.W. England	Fair to overcast; local mist.	Indiff	"
9. N. Midlands	Dull; misty.	Poor	--
10. N.E. England	Cloudy or dull; mist or fog.	V. Poor.	Smooth
11. E. Scotland	Fair to dull, some mist & rain	V. Poor.	Smooth
12. S.W. Scotland	Dull, misty	Poor	"
13. Isle of Man	Cloudy	--	"
14. N. & N.W. Scotland	Dull, local rain	Indiff.	"
15. Hebrides	Dull, showery	"	Slight
16. Orkneys and Shetlands	Variable sky.	"	Smooth
17. N.W. Ireland	Dull, local rain.	Variable	Slight
18. N.E. Ireland	Dull, local mist and drizzle.	"	Smooth
19. S.E. Ireland	Dull, local mist	Good	"
20. S.W. Ireland	Dull, local rain	"	Slight

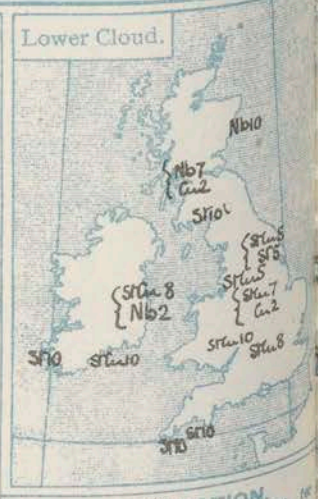
Temperature reported from Coastal and Cross-Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	23rd	0827	47	47
8	23rd	1020	44	46
6	23rd	1430	48	56
2	24th	0220	49	49
7	24th	0256	47	49





Barometric change from 4 h. to 7 h. (half millibars).



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 degrees F.

WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. thunder. thunderstorm.

SEA DISTURBANCE.—Rough. High.

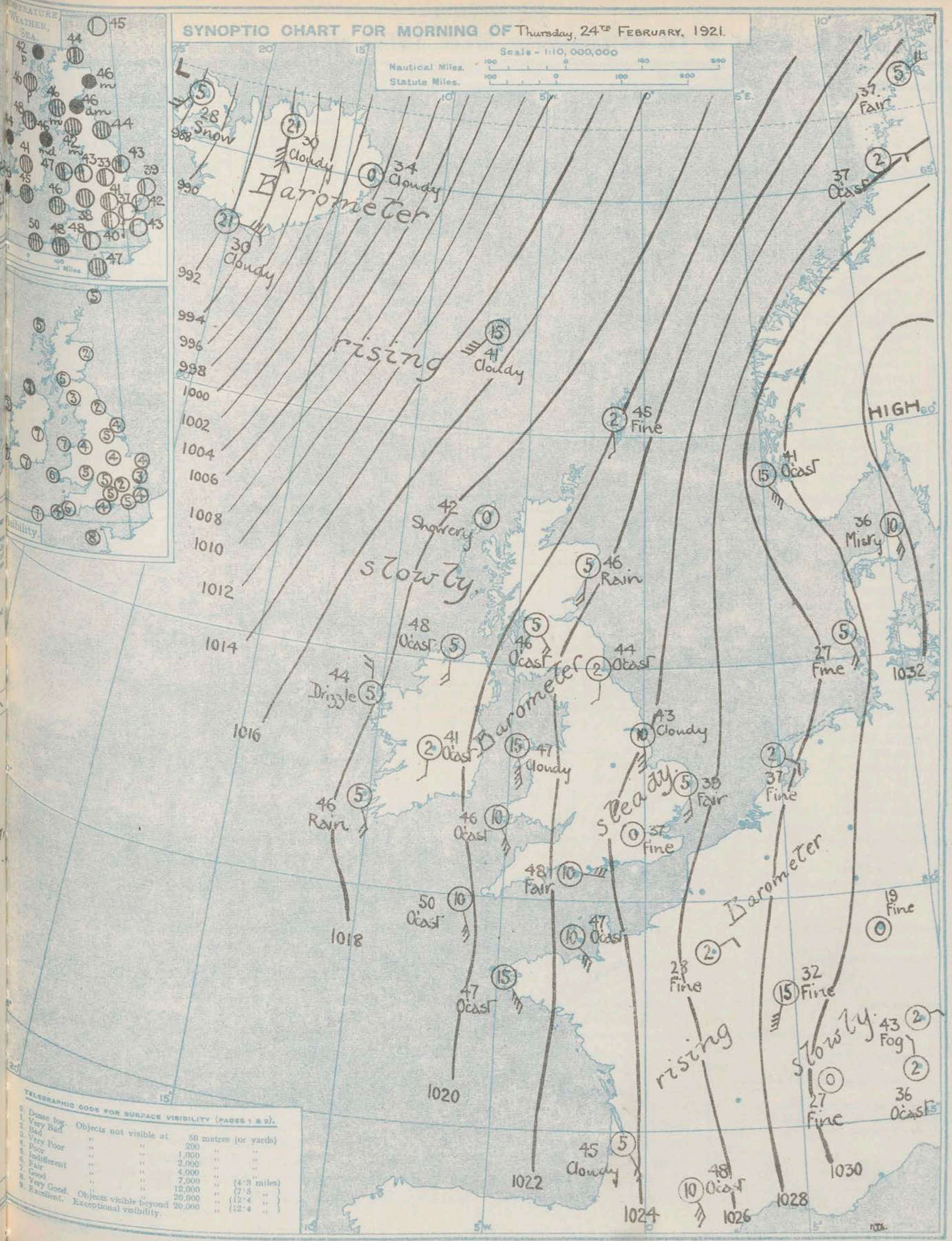
GENERAL INFERENCE from observations received up to 9h

Shallow depressions will cause some slight rain on our most Western and South-Western coasts but elsewhere the weather is likely to continue fair or fine for at least two days, with a rather high temperature during the daytime and slight frost at night.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 24th February 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S.E. or S. light; mainly fair or fine, occasional local fog or mist; rather warmer in day. Cold at night.	Mainly fair and dry for two days or more generally but some rain on our Western Seaboard.
5. S.W. England 6. South Wales	Wind Southerly, light; much cloud, some light rain; Visibility indifferent to fair. Moderate or rather high temperature.	
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland	Wind mainly South, light; cloudy or dull, fairer at times. Visibility fair generally; rather warm in daytime, and cold at night.	
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 from some Southerly point, light or moderate; cloudy or dull, some slight local rain; Visibility mainly fair; rather mild.	

R5

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.45 G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Thursday, 24th FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Barometer rising slowly
Barometer steady
Barometer rising slowly
HIGH
L
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
28 Snow
30 Cloudy
34 Cloudy
41 Cloudy
45 Fine
42 Showery
46 Rain
48 O'cast
46 O'cast
44 O'cast
44 Drizzle
41 O'cast
47 Cloudy
43 Cloudy
46 Rain
46 O'cast
38 Fair
37 Fine
48 Fair
50 O'cast
47 O'cast
28 Fine
47 O'cast
45 Cloudy
48 O'cast
37 Fair
37 O'cast
41 O'cast
36 Misty
27 Fine
37 Fine
19 Fine
32 Fine
43 Fog
27 Fine
36 O'cast
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres (or yards)
1 Very Bad " " 200 " "
2 Bad " " 1,000 " "
3 Very Poor " " 2,000 " "
4 Poor " " 4,000 " "
5 Indifferent " " 7,000 " (4·3 miles)
6 Fair " " 12,000 " (7·5 ")
7 Good " " 20,000 " (12·4 ")
8 Very Good. Objects visible beyond 20,000 " (12·4 ")
9 Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 55 ... THURSDAY 24th FEBY 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 23rd 24th	Rainfall. Day. 9h-18h. 23rd	Sunshine. Sunrise to Sunset. 23rd
Scotland.	Banff	bcc	bcc	51	36	-	-	2.4
England, N.E.	Harrogate	nc bc	becm	52	31	0.1	-	1.2
	Skegness	o	o	50	40	-	-	0.4
England, E.	Lowestoft ...	o	oc bc	48	42	-	-	2.8
	Felixstowe	om	bcm	50	39	-	-	4.5
	Southend-on-Sea...	bcb	bbc	56	42	-	-	6.2
England. S.E.	Tunbridge Wells	b	bbcb	58	40	-	-	7.1
	Margate	c	cbcc	55	*	-	-	1.8
	Ramsgate	*	*	52	42	-	*	2.0
	Folkestone	obc	b	55	48	-	*	4.2
	Hastings	m bbc	bcb	52	43	0.2	-	7.1
	Eastbourne	cbc	bcc	51	37	0.1	-	5.1
	Brighton	cb	bcc	52	46	-	-	4.4
	Worthing	bc	cbc	51	46	-	-	2.7
	Portsmouth (S'thsea)	*	*	54	41	-	-	6.6
	Bournemouth ...	*	*	56	42	-	-	7.6
England. N.W.	Blackpool	bc	o	54	38	-	-	1.7
Midlands.	Leamington Spa...	b	b	59	36	-	-	7.2
	Bath	b	b	59	41	-	-	8.8
Wales.	Rhyl	bc	bcc	56	38	-	-	1.5
	Colwyn Bay ...			56	42	-	-	2.0
	Llandudno	*	*	55	41	-	-	0.9
	Aberystwyth ...	ocb	bco	56	50	-	-	2.5
England. S.W.	Weymouth	b	b	56	42	-	-	8.2
	Torquay	w bz	bz	55	46	-	-	8.8
	Paignton	b	bbm	57	41	-	-	8.3
	Penzance	co	o	51	46	-	-	0.1
	Bude	cvcbc	b	58	35	-	-	7.5
	Ilfracombe	b	bbcc	59	45	-	-	8.1

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 23rd	Weather. 13h-18h. 23rd	Weather. 18h-1h. 23rd 24th	Weather. 1h-7h. 24th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. Day. 7h-19h. mm.	Rainfall. Night. 19h-7h. mm.	Sun. Hours.
Renfrew ...	02f.	02f pd 03f pd	03f T c 01f	01f 02 02f 6	49	43	38	2	5	0.0
Eskdalemuir	03f.	02f pd	02f pd	pd 03f	46	34	?	0.1	1	0.0
Valencia (Cahire'n) ...	oco pd	cop	o	TT T	50	42	43	-	5	1.1
Baldonnel	p 02f	cor	01f	01f. o	52	44	41	2	0.1	1.0
MANCHESTER (ALEX. PARK)	bbc3f bc2f	02f 03f	c 03f.	c 0f 3f 2f	57	37	38	-	0.1	*
Ross on Wye... ...	bcc2f bz	bbc bcc	bc owc 01f	01f c 02f	60	38	30	-	-	7.2
Falmouth	bo2f bcc	co 02f	o c 03f	2f	55	44	41	-	0.1	4.8
Calshot (Hants)... ...	02f bcc2f	b1f.	b2f.	b2f. b bc2f	50	41	31	-	-	5.9
Lympne (Folkestone) ...	01f bcc	bbc1f bcc2f	bo. c 2f.	b bc2f. bb	52	36	30	-	-	4.5
Aberdeen	02-5f 2f	03f 2f	3f	02f	49	39	39	-	0.4	2.9
Howden	co2f	2 bbc	o 01f.	oo	55	36	31	-	-	4.8
Cranwell (Lincs)	p 02f bcc	bbc	b bc. c.	c. o. o.	55	34	31	trace	-	3.9
Felixstowe	02f 2f	2f.	2f	bc. c2f 3f	50	35	28	-	-	4.5
Shoeburyness	1fc bbc	1fc bbc	b bc 1fc.	2f c	53	33	26	-	-	6.0
Benson	o	o.b	b. bc. c. o	b. b bc.	57	40	30	-	-	.x.
S. Farnborough ...	p co bcc	b bbc	b2f	b bc2f	59	34	27	-	-	5.6
London (Kew Obsy.) ...	co 03f co	2f bbc bbc	bc c3f. b3f	b3f bbc5f	59	36	25	-	-	3.9
Croydon	co2f.	02f co bcc1f bbc2f	bo c 2f c o. bc2f	02f c o b bc2f	60	40	36	-	-	.x.

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r_1r_1 = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.
Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0.3
1	1- 3	0.3- 1.5
2	4- 7	1.6- 3.3
3	8-12	3.4- 5.4
4	13-18	5.5- 7.9
5	19-24	8.0-10.7
6	25-31	10.8-13.8
7	32-38	13.9-17.1
8	39-46	17.2-20.7
9	47-54	20.8-24.4
10	55-63	24.5-28.4
11	64-75	28.5-33.5
12	Above 75	33.6 or above

SYMBOLS— Solar halo; Aurora; Rime; Lunar halo; Glazed frost; Solar corona; Glazed roads; Lunar corona; Line Squall; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity %. 15 h. G.M.T.	Humidity %. 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 24th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	b.	b.	bc.	60	36	27	-	2.2	57	80
City (Bunhill Row)	*	*	*	*	*	*	*	1.1	*	*
Westminster (St. James's Park)	*	*	bc.	60	41	32	-	1.8	55	86
Regents Park (Botanic Gdns)	.x.	.x.	.x.	.x.	.x.	*	.x.	1.7	.x.	.x.
Camden Sq. (British Rainfall)	b.	b	*	57	38	28	-	*	52	96
Kensington Palace	b.	b	*	59	36	29	-	*	65 (18h)	92
Hampstead Observatory ...	*	*	*	57	39	29	-	2.1	*	79

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.
Average Rate.
Maximum Rate.

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

24th & 25th FEBRUARY 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.53 / 6.51	12.6 / 12.6	5.19 / 5.21
Greenwich	6.59 / 6.56	12.13 / 12.13	5.28 / 5.30
Wick ...	7.24 / 7.21	12.25 / 12.25	3.37 / 3.39
Valencia ...	7.41 / 7.39	12.29 / 12.24	6.8 / 6.10

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from ...18... h. 30 m.
to ...6... h. 0 m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	11. 30	7. 10	62
δ Ursae Minoris	11. 30	5. 38	49

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 60° at Croydon and Ross-on-Wye and to 58° or 59° at some other stations in Southern and central England. Little bright sunshine was recorded in Ireland, Scotland, and Northern England; but elsewhere the values were generally rather high; 8.8 hr. at Bath and Torquay and 9.5 hr. at Jersey. Rain occurred in the Hebrides and slight amounts at some other places in the West and North.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21,645 Friday, 25th February, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	Temp. °F.	Humidity. %	§ Visibility 0-9.	Height of Low Cloud. Feet.	Low Cloud. Form	Low Cloud. Amt. 0-10.	Upper Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. 24th													
Renfrew	1021.3	0	-	0	or 2f	46	97	3	1250	St	10	-	-	*
Eskdalemuir	1022.0	0	-	0	03f	46	92	3	2000	St	10	-	-	*
Valencia (Cahirc'n)	1019.8	+2	SW	1	01f	47	92	7	750	St	10	-	-	3
Baldonnel	1020.1	0	-	0	01f	47	92	7	1250	St	10	-	-	*
Manchester (AlexPk)	1022.6	-1	SSE	3	02f	54	75	4	7200	CuNb	2	-	-	*
Ross on Wye	1022.3	-1	SSW	2	02	55	75	6	5700	StCu	4	ACu	5	*
Falmouth	1021.2	+1	SSE	3	01f	50	92	6	-	-	-	-	-	*
Calshot (Hants) *	1024.0	0	E	4	c	48	92	6	5700	StCu	8	-	-	3
Lympne (Folkestone)	1025.3	0	S	3	b	51	65	7	-	-	-	-	-	*
Aberdeen	1021.8	0	S	2	02f	49	92	4	1250	St	10	-	-	2
Howden	1023.7	-1	SSE	2	cz	55	65	5	4200	StCu	2	ACu	6	*
Cranwell (Lincs)	1023.7	-1	SSE	2	bc	57	75	5	-	-	-	CiCu	5	*
Felixstowe	1025.7	-1	-	0	b2f	50	75	4	-	-	-	-	-	*
Shoeburyness	1025.1	0	SSE	2	bz	55	65	7	-	-	-	-	-	*
Benson	1022.7	-1	SSE	3	b	58	65	8	-	-	-	-	-	*
S. Farnborough	1023.8	-1	ESE	2	b1f	59	65	6	4200	Cu	1	-	-	*
London (Kew Obsy.)	1024.1	-2	S	3	b2f	56	65	5	-	-	-	-	-	*
Croydon	1024.4	0	S	2	b1f	58	65	6	3000	Cu	1	-	-	*
	1H. G.M.T. of 25th													
Renfrew	1020.9	+2	SW	3	bc	41	97	6	2000	St	5	-	-	*
Eskdalemuir	1021.0	-1	SSW	4	or 03f	43	97	3	1250	Nb	10	-	-	*
Valencia (Cahirc'n)	1027.1	+6	WNW	4	bcp	44	*	*	*	*	*	*	*	4
Baldonnel	1023.5	+3	WNW	3	r02-3f	43	92	4	<500	St	10	-	-	*
Manchester (AlexPk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1024.6	0	SSW	1	or	48	97	6	-	Nb	10	-	-	*
Calshot (Hants)	1025.6	0	-	0	01f	44	97	6	4,200	StCu	8	aCu	2	0
Lympne (Folkestone)	1026.4	0	-	0	b2f	43	92	4	-	-	-	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1023.4	+1	SE	2	or	42	92	3	2000	Nb	10	-	-	*
Cranwell (Lincs)	1024.7	0	SW	2	c	44	92	5	4,200	CuNb	3	aCu	4	*
Felixstowe	1026.6	0	-	0	b2f	38	97	4	-	-	-	aSc	1	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1m.)	1025.3	0	*	*	*	42	*	*	*	*	*	*	*	*
Croydon	1025.9	-1	S	3	02f	44	75	4	3000	StCu	8	aCu	1	*

STATIONS.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. 24th													
Renfrew	1020.1	-1	ESE	2	or 02f	47	92	4	2000	Nb	9	A.St	1	*
Eskdalemuir	1020.9	-1	S	1	02f	47	85	5	2000	St	10	-	-	*
Valencia (Cahirc'n)	1022.4	+4	NNW	4	c	45	85	8	2000	StCu	5	A.St	3	4
Baldonnel	1020.6	+2	WSW	1	0	46	85	9	2000	St	5	A.St	5	*
Manchester (AlexPk)	1022.2	0	SSE	1	03f	51	75	2	2000	St	10	-	-	*
Ross on Wye	1022.8	+1	S	2	0	52	75	6	2000	Nb	9	Ci	1	*
Falmouth	1022.5	+2	SSW	2	02f	50	92	5	-	StCu	7	A.St	3	*
Calshot (Hants) *	1025.2	+3	E	2	bc 1f	45	97	6	5700	StCu	4	-	-	2
Lympne (Folkestone)	1025.8	0	-	0	b1f	46	65	6	-	-	-	ACu	1	*
Aberdeen	1021.4	0	S	2	b4fe	45	92	2	3000	StCu	3	-	-	2
Howden	1023.2	+1	SE	1	bc	44	92	4	3000	St	2	A.St	3	*
Cranwell (Lincs)	1024.3	+2	SSW	1	b2f	47	92	5	4200	St	1	A.St	1	*
Felixstowe	1026.0	+2	SSE	2	b2f	43	85	4	-	-	-	A.St	1	*
Shoeburyness	1025.3	0	SSE	1	b1f	40	85	7	4200	StCu	1	ACu	1	*
Benson	1023.7	+1	SSW	1	bc	51	75	6	-	Cu	5	-	-	*
S. Farnborough	1024.7	+2	SE	2	b	50	75	5	-	-	-	A.Cu	2	*
London (Kew Obsy.)	1024.7	+2	S	2	b2f	52	65	4	5700	StCu	2	ACu	1	*
Croydon	1025.0	+2	SSE	2	b2f	51	65	4	-	-	-	ACu	1	*
	7H. G.M.T. of 25th													
Renfrew	1024.3	+4	WSW	2	bc 3f	37	97	3	3000	Cu	1	aSt	4	*
Eskdalemuir	1024.3	+4	NNW	3	c	37	85	7	3000	StCu	2	aSt	6	*
Valencia (Cahirc'n)	1031.2	+5	NW	3	cp	43	85	8	3000	Cu	7	-	-	3
Baldonnel	1027.8	+4	SW	1	b	37	92	8	3,000	St	1	A.St	2	*
Manchester (AlexPk)	1024.0	+2	W	2	03f	46	97	2	1,250	St	10	-	-	*
Ross on Wye	1024.5	+1	SW	1	02f	45	97	5	2000	St	9	aSt	1	*
Falmouth	1025.5	+1	SSW	1	or	47	97	5	-	Nb	10	-	-	*
Calshot (Hants)	1025.6	0	-	0	02f	44	97	4	4,200	StCu	6	aSt	4	0
Lympne (Folkestone)	1026.5	0	SSE	2	c2f	44	97	4	7,200	StCu	5	aCu	3	*
Aberdeen	1021.3	+5	WNW	3	01fE	39	92	6	3000	StCu	4	aSt	6	2
Howden	1023.9	+1	SE	1	or 0m	42	97	3	2000	Nb	10	-	-	*
Cranwell (Lincs)	1025.0	+1	-	0	0	41	97	5	5,700	CuNb	4	aCu	5	*
Felixstowe	1026.5	+1	-	0	or 02f	40	92	5	4,200	StCu	9	-	-	1
Shoeburyness	1025.9	0	S	1	c2fE	41	85	5	4,200	Cu	4	aCu	3	*
Benson	1024.6	+1	SSE	1	or 02f	44	97	5	-	Nb	10	-	-	*
S. Farnborough	1025.7	0	SSE	1	03f	44	92	4	1250	St	10	-	-	*
London (M.O. at 1m.)	1025.6	*	-	0	02f	42	92	4	4,200	StCu	10	-	-	*
Croydon	1026.2	0	S	3	01f	46	85	6	3000	StCu	10	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc	Wind. Force 0-12.	Weather.	Barometer. at M.S.L. mb.	Barometer. ‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	† Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 24th					7H. G.M.T. of 25th									24 HOURS ENDED 7H. 25th						24th
Lerwick	1020.4	47	S	2	cm	1017.1	+1	42	-3	W	3	-	omr	2	6	49	40	bcm	bcm	fδ. omr	*
Stornoway	1020.1	43	-	0	0	1020.0	0	37	-5	WSW	1	-	bc	1	1	45	37	oc	o	oz. bc	0.0
Castlebay (Barra Is)	1020.3	43	-	0	0	1023.0	+1	43	-3	WNW	4	W	bc	4	2	45	39	op̄o	opo	ob.p.bc	0.0
Malin Head	1020.8	44	W	2	or m	1024.9	+3	43	-5	W	4	W	bc	4	3	49	42	omd	omr	op. bcz	0.0
Blacksod Point	1020.8	46	NW	1	0	1027.1	+3	43	-1	NW	3	-	bc	2	4	46	35	od	op	bc	*
Roche's Point	1021.5	49	SSW	1	0	1029.5	+4	42	-3	NNW	4	-	b	2	3	52	40	opco	oz	or. b	*
Birr Castle	1019.4	42	ESE	1	0	1029.3	*	34	-7	NW	1	-	b	*	4	50	34	od.c.	odm	or.bc	0.1
Donaghadee	1019.5	47	SW	1	omd	1026.1	+3	40	-6	W	1	-	bcm	1	7	48	40	omd	omr	bomp	*
Liverpool (Bidston)	1021.5	51	SE	1	c	1024.1	+3	43	0	WNW	1	-	odf	0	2	53	43	bcom	bcm	orf	1.6
Holyhead	1020.7	49	S	4	og	1025.6	+3	43	-4	N	6	-	or	4	6	50	42	cpo	opco	opδ.opp.or	0.1
Pembroke (St. Ann's Head)	1021.9	43	S	3	02f	1027.6	+2	44	-2	N	4	-	og	3	2	48	44	om	om	om.op	0.0
Scilly (St. Mary's)	1021.8	51	SSW	1	c1f	1025.5	+2	47	-3	NNW	5	N	o	5	1	55	47	oc	cm	bcm.op	1.7
Jersey (St. Aubin)	1024.0	50	SE	2	c	1025.9	0	47	0	S	3	-	o	3	2	52	47	oc	copc	c.op.o	3.3
Portland Bill	1023.8	48	ESE	3	c	1025.0	0	48	0	SSE	2	-	op	4	3	52	45	bco	oc	c.bc.c.op	*
Dungeness	1024.7	45	ENE	1	b	1026.1	0	45	+2	S	1	S	bc	2	-	51	43	bbc	bz	b.bc	*
Wick	1019.5	45	-	0	om	1019.3	+2	37	-7	WSW	3	-	c	2	9	48	37	oc	com	omr	*
Nairn	1019.6	44	-	0	c	1021.2	*	34	-5	-	0	-	bc	1	10	50	34	bccg	cg	cprgx	0.0
Leith	1020.2	45	E	1	0	1022.3	+3	39	-7	WSW	2	W	c	1	5	49	38	δm.o	om.o	omr.c	*
Tynemouth	1022.3	47	SW	1	c2f	1023.1	+2	43	-1	W	2	-	c1f	1	2 trace	49	43	cf	cf	bcf.fz	*
Spurn Head	1022.9	44	SSE	3	cm	1023.1	0	43	0	SSW	3	-	bc	2	-	47	37	cm	cm	bcm	*
Yarmouth (Gor. Jetty)	1025.5	43	SSW	3	b3fe	1025.5	0	39	0	WSW	2	-	bcm	1	-	48	38	bcm	bm bf	bm	9.6
Clacton-on-Sea	1025.6	45	ESE	2	b	1025.9	0	43	+1	WSW	1	-	cm	1	-	50	42	bm	bm	b.bc.om	8.8
Nottingham	1023.4	49	S	1	bc	1024.4	*	44	+11	SW	2	SW	om	*	1	60	32	cbc	bbc	bc	4.0

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

M.O FORM 2370

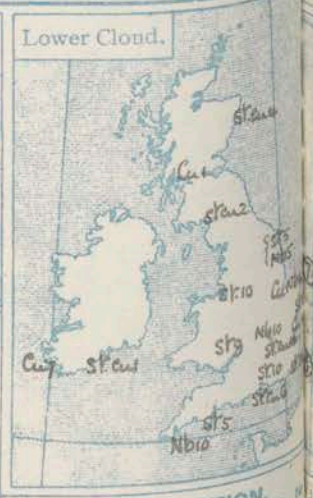
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 25.2.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudy or overcast, misty.	Indiff.	Smooth
2. E. England	Fair to dull, misty, local rain.	"	"
3. E. Midlands	Dull, misty, local rain.	Poor	--
4. W. Midlands	Dull, misty, local rain.	"	--
5. S.W. England	Dull, local rain.	Fair	Mod.
6. South Wales	Dull, mist inland	Var.	Slight
7. North Wales	Dull, local rain & mist.	"	Moderate
8. N.W. England	Dull, misty, local drizzle.	Poor	Smooth
9. N. Midlands	Dull, misty, local rain.	V. Poor.	--
10. N.E. England	Fair to dull, misty, local rain.	Poor	Smooth
11. E. Scotland	Fair to overcast	Fair	"
12. S.W. Scotland	Fair or cloudy; local mist.	Var.	Slight
13. Isle of Man	Fair.	Fair	Smooth
14. N.& N.W. Scotland	Fair or cloudy.	Indiff.	"
15. Hebrides	Fair	Fair	Slight
16. Orkneys and Shetlands	Cloudy or dull, local mist. and rain.	Poor	Smooth
17. N.W. Ireland	Fair	Good	Slight
18. N.E. Ireland	Fair, local mist	Fair	Mod.
19. S.E. Ireland	Fine	Good	Smooth
20. S.W. Ireland	Fine to cloudy, local showers.	"	Slight

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
12	24th	0415	46	45
3	24th	0945	48	49
2	25th	0210	49	48

Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.
BAROMETER.—Isobars are drawn at 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 degrees F.
WEATHER SYMBOLS.—
clear sky. sky ¼ clouded. sky ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. K thunderstorm.
SEA DISTURBANCE.—Rough. High.

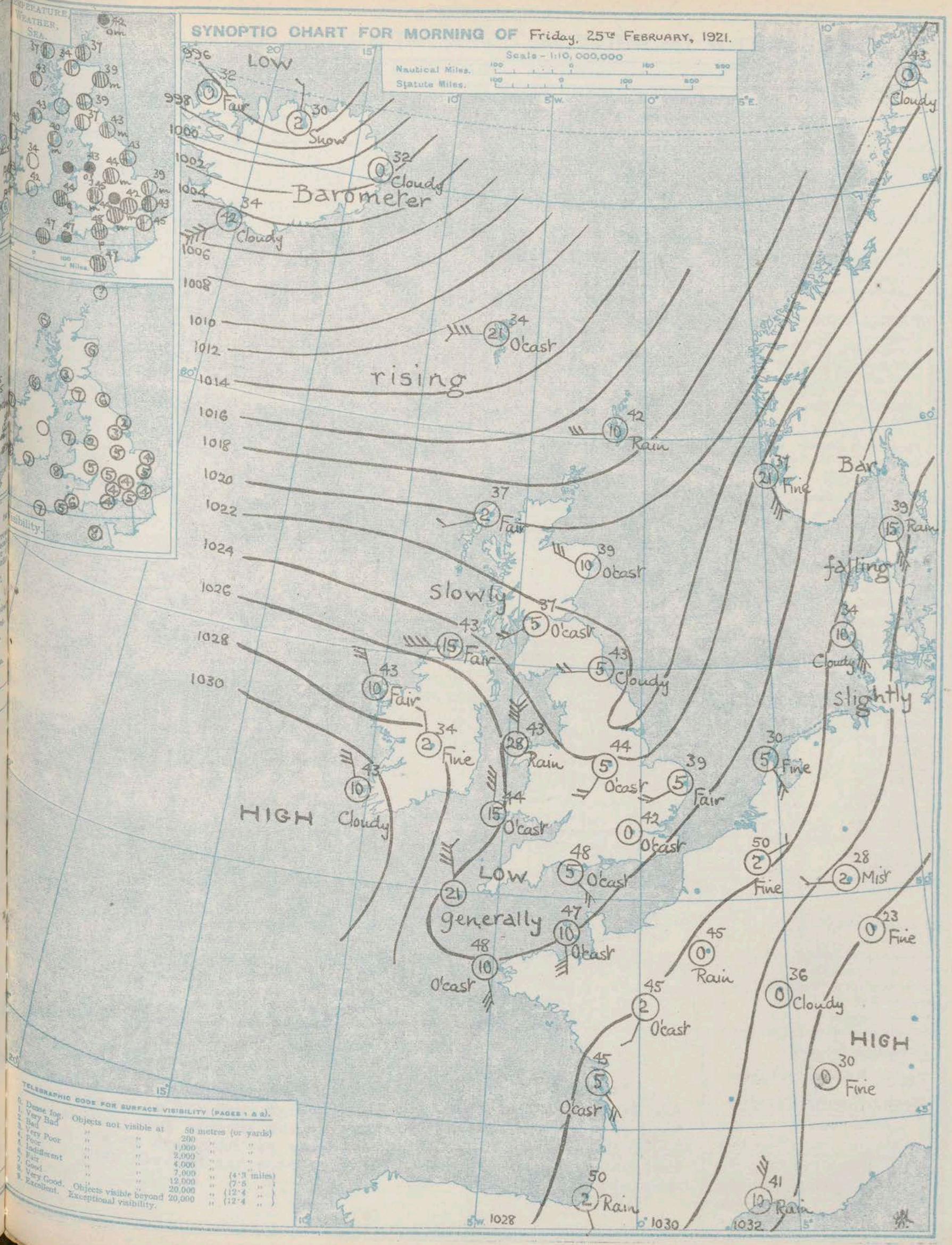
GENERAL INFERENCE from observations received up to 9h

A shallow V-Shaped depression passing Eastward over Great Britain will cause slight rain in many places but be followed by a high pressure ridge bringing fairer weather tomorrow. Temperature will be lower than of late.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 25th February 1921	Further Outlook.
1. S.E. England 2. E. England 3 E. Midlands 4. W. Midlands	Wind veering to the North-Westward, light or moderate; some rain, then fairer. Visibility fair to good. Colder.	Wind between West and S.W., rather mild, unsettled weather.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind N.W. or North, backing later, moderate or light. Some local showers, but mainly fair. Visibility fair or good. Colder.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind mainly Westerly, light or moderate; variable sky, some showers. Visibility mainly fair. Rather colder.	
12. S.W. Scotland 13. Isle of Man	Same as 5 - 8	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Same as 9 - 11	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind North-Westerly, backing to S.W. or South, light or moderate; fine, then much cloud, some rain. Rather cold, then milder.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0930.

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


SYNOPTIC CHART FOR MORNING OF Friday, 25th FEBRUARY, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer
rising
slowly
falling
slightly
HIGH
LOW
generally
HIGH
Bar
Fair
Snow
Cloudy
O'cast
Rain
Fine
Mist
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Very Poor " " 1,000 " "
3. Poor " " 2,000 " "
4. Indifferent " " 4,000 " "
5. Fair " " 7,000 " (4·3 miles)
6. Good " " 12,000 " (7·5 ")
7. Very Good. " " 20,000 " (12·4 ")
8. Excellent. Objects visible beyond 20,000 " (12·4 ")
Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 56. {Friday 25th February

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h.-9h. 23rd-24th	Rainfall. Day. 9h.-18h. 24th	Sunshine. Sunrise to Sunset. 24th
Scotland.	Banff	oc	bc	53	38	-	-	0.8
England, N.E.	Harrogate	cm bc	bcez	50	37	-	-	0.3
	Skegness	ocb	ob	53	41	-	-	5.8
England, E.	Lowestoft	b	b	50	39	-	-	8.8
	Felixstowe	bm	bz	50	38	-	-	9.2
	Southend-on-Sea	b	b	58	40	-	-	9.0
England, S.E.	Tunbridge Wells	b	b	59	38	-	-	8.2
	Margate	b	b	60	41	-	-	8.4
	Ramsgate	*	*	53	41	-	-	8.5
	Folkestone	b	b	58	37	-	-	8.4
	Hastings	b	bm	53	41	-	-	9.2
	Eastbourne	bcb	b	52	35	-	-	8.6
	Brighton	b	b	53	39	-	-	8.5
	Worthing	b	b	53	42	-	-	9.1
	Portsmouth (S'thsea)	*	*	53	41	-	-	5.9
	Bournemouth	*	*	54	38	-	-	4.3
England, N.W.	Blackpool	c	o	55	43	02	-	1.6
Midlands.	Leamington Spa	bc	bc	62	32	-	-	5.0
	Bath	oc	ocbc	57	39	-	-	0.0
Wales.	Rhyl	bcc	cp	55	42	-	02	0.8
	Colwyn Bay	*	*	59	45	-	-	3.9
	Llandudno	*	*	54	41	-	2	1.3
	Aberystwyth	-	-	54	44	1	-	1.0
England, S.W.	Weymouth	cbcc	cbc	53	45	-	-	3.0
	Torquay	c	c	53	40	-	-	1.7
	Paignton	wbcfc	bcco	54	37	-	-	1.4
	Penzance	occ	c	52	48	-	-	0.1
	Bude	o	o	54	42	-	-	0.0
	Ilfracombe	oco	o	54	47	-	-	0.7

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h.-18h. 24th	Weather. 18h.-18h. 24th	Weather. 18h. 24th-1h. 25th	Weather. 1h.-7h. 25th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h.-18h. mm.	Rainfall.† Night. 18h.-7h. mm.	Sun. Hours.
Renfrew	02fr. 03fr	02fr 02f	rrRRbc.c	bbc2f	49	36	31	5	6	0.2
Eskdalemuir	03f.	p.02f	r0r0 r.	r.c o	49	37	32	0.2	3	0.1
Valencia (Cahire'n)	p0o 01f.	r0 co	bc.o b.bc	bc.c bc.o	48	42	37	3	-	0.0
Baldonnel	RR.o r02f	cop	02fr0r0	bo r0	48	36	30	4	5	0.0
Manchester (Alex Park)	04rf 03f 04f	02f	03fr0	02f 03fr0	56	45	43	trace	3	*
Ross on Wye	02ff c 02	bcc2 oco	p0 o	01f.	58	38	40	-	-	1.4
Falmouth	01f	02f 02f	03fr r0	r0	51	46	39	-	3	0.0
Calshot (Hants)	03f 01f c 01f	bcc1f bbc1f	bc.c1f c.01f	01ff 02f	50	42	39	-	1	5.0
Lympne (Folkestone)	b.bcx2f 1f	b1f bbc1f	b.bc1f b2f	b2f.bc02f bc02f	51	36	29	-	-	8.7
Aberdeen	p0 04rf 03f 01f	02f 4fe	3fr r	r 01f.	50	38	35	-	3	0.2
Howden	z.bc.c	bbc z	bc.c.c.o	r 2fr.	56	38	31	-	1	2.6
Cranwell (Lincs)	02f.bc.c	1f bbc	b.bc.bc.c	p0 c.o	59	35	33	-	1	5.6
Felixstowe	3f.b.bc	bbc 2f	b.bc2f	c 02fr 02f	51	34	27	-	-	8.8
Shoeburyness	2fr.b	b bo	bx	bc.c2fr	55	34	25	-	-	7.9
Benson	bbc b	bbc	bc.c.c.o	o r r.	59	41	34	-	2	*
S. Farnborough	b.b.bc.	bcc bbc	b 01f.	p0 02f	61	40	36	-	trace	8.0
London (Kew Obsy.)	x3f 2f.	2f 3f	2f.02f	02f p0	59	36	30	-	0.1	5.1
Croydon	b.bc2f b1f	bbc 1f 2f	b.bc.bc.c c.o 2f.	02f p0 01f	60	40	36	-	trace	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1-3	0·3-1·6
2	4-7	1·6-3·9
3	8-12	3·4-5·4
4	13-18	5·5-7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-32·6
12	Above 75	32·6 or above

SYMBOLS— Solar halo ⊕ Aurora ☆ Rime ✕ Lunar halo ◯ Glazed frost ⌁ Solar corona ◎ Glazed roads ⌁ Lunar corona ◎ Line Squall ⊘ Snow lying ⊠

LONDON OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity %. 15 h. G.M.T.	Humidity %. 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 25th							Yesterday.		To-day.
Greenwich (Royal Observatory)	b	b	bc.o c	62	42	28	0.3	7.8	54	89
City (Bunhill Row)	*	*	*	*	*	*	*	3.9	*	*
Westminster (St. James's Park)	*	*	oo	62	42	36	0.3	5.1	54	84
Regents Park (Botanical Soc.)	*	*	*	*	*	*	*	3.8	*	*
Camden Sq. (British Rainfall)	bf.b	b.bc	*	60	37	34	0.3	*	54	87
Kensington Palace	bc	bc.	*	61	40	35	0.2	*	62 (18h)	90
Hampstead Observatory	*	*	*	58	44	34	--	5.1	*	85

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.
Average Rate.
Maximum Rate.

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

25th-26th Feb. 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.51	12.6	5.21
	6.49	12.6	5.23
Greenwich	6.56	12.13	5.30
	6.54	12.13	5.32
Wick	7.21	12.25	5.29
	7.18	12.25	5.32
Valencia	7.39	12.54	6.10
	7.37	12.54	6.12

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	11. 30	4. 42	41
δ Ursae Minoris	11. 30	3. 54	35

NOTES ON THE WEATHER OF YESTERDAY.

Temperature again touched 60° at Nottingham and a few other stations, 61° at S.Farnborough, and 62° at Leamington. Rain fell in most Districts, the largest amounts being about 10 mm in Scotland. Bright sunshine was abundant in the East and South of England, but elsewhere the records were moderate to very low

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21,646 Saturday, 26th February, 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

13H. G.M.T. 25th

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1028.3	+3	WSW	3	c	47	75	8	2000	Cu	7	-	-	
Eskdalemuir	1028.2	+4	WNW	4	bcq	45	65	7	3000	Cu	4	Ci.St	2	*
Valencia (Cahirc'n)	1035.8	+3	NNW	3	b	48	65	8	3000	Cu	3	-	-	3
Baldonnel	1032.5	+3	NW	3	bc	45	75	8	3000	StCu	6	-	-	*
Manchester (Alex. Pk.)	1029.0	+5	NNW	3	o3f	45	75	3	750	St	10	-	-	
Ross on Wye	1028.7	+6	N	4	or₀	41	92	8	1250	Nb	10	-	-	*
Falmouth	1029.8	+4	N	6	o	48	75	7	-	Nb	7	A.St	3	*
Calshot (Hants)	1027.1	+1	-	0	o+f	47	97	2	4200	St	10	-	-	0
Lympne (Folkestone)	1027.3	+1	S	3	oif	48	92	7	1250	St	10	-	-	*
Aberdeen	1024.8	+2	WNW	3	b	48	45	8	4200	Cu	2	-	-	2
Howden	1027.8	+~~4~~5	N	3	oif	46	85	5	3000	~~CuNb~~ St	~~10~~	a.St	3	*
Cranwell (Lincs)	1027.4	+2	N	4	or	43	97	5	1250	Nb	10	-	-	*
Felixstowe	1027.4	0	S	1	o2f	47	85	5	5700	StCu	10	-	-	*
Shoeburyness	1026.8	+1	WSW	1	orm	49	85	4	2000	Nb	7	A.St	3	*
Benson	1026.4	+2	NW	1	or₀2f	48	97	4	-	Nb	10	-	-	*
S. Farnborough	1027.0	+1	-	0	o3f	49	92	3	<500	St	10	-	-	*
London (Kew Obsy.)	1027.0	+1	-	0	odm	48	92	~~3~~2	4200	Nb	10	-	-	*
Croydon	1027.3	+1	-	0	ofd₀	49	92	4	4200	St	10	-	-	*

18H. G.M.T. OF 25th

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1032.0	+5	W	3	bc	40	95	7	3000	Cu	5	-	-	*
Eskdalemuir	1032.4	+4	WNW	3	b	38	75	7	3000	Cu	2	-	-	*
Valencia (Cahirc'n)	1039.3	+5	NNW	3	bc	45	75	8	3000	StCu	4	-	-	4
Baldonnel	1036.1	+5	NW	3	bc	43	75	8	4200	StCu	2	A.St	2	*
Manchester (Alex. Pk.)	1032.8	+6	NNW	3	bc3f	42	85	3	3000	Cu	3	A.Cu	1	*
Ross on Wye	1031.8	+4	NNE	3	o	44	75	9	-	-	-	A.St	9	*
Falmouth	1033.0	+5	N	5	b	45	75	8	-	StCu	1	A.St	1	*
Calshot (Hants)	1028.9	+4	NNW	4	or₀2f	45	92	5	1250	Nb	10	-	-	2
Lympne (Folkestone)	1027.7	0	-	0	or₀2f	46	97	4	1250	Nb	6	A.St	4	*
Aberdeen	1028.7	+5	WNW	4	b	40	65	8	-	-	-	-	-	2
Howden	1031.4	+6	NNW	2	c	42	85	7	4200	St	5	A.Cu	3	*
Cranwell (Lincs)	1031.2	+4	NW	1	o2f	41	97	5	2000	St	7	A.St	2	*
Felixstowe	1028.7	+2	NNE	2	o2f	47	97	5	3000	StCu	10	-	-	*
Shoeburyness	1027.2	+2	NNE	1	or fe	47	92	3	1250	Nb	10	-	-	*
Benson	1030.2	+4	NNW	4	or₀2f	42	92	5	-	Nb	10	-	-	*
S. Farnborough	1029.3	+4	N	3	or₀	43	97	5	750	Nb	10	-	-	*
London (Kew Obsy.)	1029.0	+4	N	4	o3f	45	85	3	2000	StCu	10	-	-	*
Croydon	1028.9	+4	N	4	o3fr₀	45	92	3	1250	Nb	10	-	-	*

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1H. G.M.T. OF 26th

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1037.6	+4	WSW	1	b	~~39~~ 37	85	6	-	-	-	-	-	ẋ
Eskdalemuir	1037.7	+4	N	2	b	32	85	7	-	-	-	-	-	*
Valencia (Cahirc'n)	1044.6	+6	NNW	2	bc	45	*	*	*	*	*	*	*	3
Baldonnel	1041.3	+4	SW	1	b	35	92	7	-	-	-	-	-	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1038.4	+3	N	5	b	42	85	8	-	-	-	-	-	*
Calshot (Hants)	1034.5	+3	N	4	oif	43	85	7	1250	St	10	-	-	3
Lympne (Folkestone)	1032.5	+5	N	7	orq2f	39	97	4	750	Nb	10	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1036.3	+~~7~~3	-	0	bx	30	97	9	-	-	-	-	-	*
Cranwell (Lincs)	1036.0	+4	NNW	2	b2fe	34	92	5	-	-	-	aSt	1	*
Felixstowe	1033.9	+4	N	3	oif	42	92	7	3000	StCu	10	-	-	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1034.8	?	*	*	*	42	*	*	*	*	*	*	*	*
Croydon	1034.5	+3	N	4	o2f	42	85	4	1250	St	10	-	-	*

7H. G.M.T. OF 26th

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1040.9	+5	-	0	c	36	92	4 (8)	4,200	St	5	aCu	3	ẋ
Eskdalemuir	1041.1	+4	WSW	2	bx	36	85	~~7~~	3000	StCu	2	-	-	*
Valencia (Cahirc'n)	1046.2	+3	-	0	bc	37	92	8	4,200	StCu	6	-	-	3
Baldonnel	1044.3	+5	WSW	1	bx	34	92	8	-	-	-	a.St	3	*
Manchester (Alex. Pk.)	1041.6	+4	-	0	bx3f	28	97	3	-	-	-	-	-	ẋ
Ross on Wye	1040.7	+3	-	0	bx	33	92	8	-	-	-	-	-	*
Falmouth	1041.1	+3	N	4	b	41	85	7	-	CuNb	1	-	-	*
Calshot (Hants)	1038.8	+4	N	3	bif	36	85	7	4,200	StCu	1	-	-	2
Lympne (Folkestone)	1036.1	+5	N	5	o2fq	40	92	5	750	St	10	-	-	*
Aberdeen	1037.0	+2	WSW	3	cife	38	85	6	4,200	StCu	7	-	-	2
Howden	1040.0	+3	NNW	~~7~~3	bx	30	85	7	3000	St	1	aSt	1	*
Cranwell (Lincs)	1040.1	+4	N	4	b	32	92	5	-	-	-	-	-	*
Felixstowe	1037.8	+5	N	3	bif	36	97	6	-	-	-	aSt	1	1
Shoeburyness	1037.7	+3	N	2	bife	35	75	6	-	-	-	aCu	1	*
Benson	1039.1	+3	N	1	bx	30	97	5	-	-	-	-	-	*
S. Farnborough	1038.7	+4	N	2	b2f	33	92	5	-	-	-	Ci	1	*
London (M.O. at 1H.)	1038.7	+5	N	3	b2f	36	85	5	-	-	-	aSt	1	*
Croydon	1038.7	+5	NNE	2	b2f	35	85	4	-	-	-	aCu	1	*

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STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	Barom. at M.S.L. mb. (18H. G.M.T. of 25th)	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	Barometer at M.S.L. mb. (7H. G.M.T. of 26th)	‡ Change in 3 hours	Temp. °F.	Temp. Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	† Rainfall mm. (24 hours ended 7H. 26th)	Max. °F.	Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (25th)
Lerwick	1020.7	38	W	2	om	1029.0	+2	44	+2	WSW	3	-	bc	2	7	49	36	bc	omth.	bcp.bc	ẋ
Stornoway	1028.6	39	WSW	2	bc	1035.6	+2	44	+7	W	3	-	op	2	6	45	36	bcq	bc	bc.op	5.7
Castlebay (Barra Is.)	1031.6	42	WNW	4	b	1038.7	+3	41	-2	WNW	4	-	op.	4	1	45	40	bcoc	cbbch	b.p.b.op	6.4
Malin Head	1033.3	45	WNW	3	bc	1041.2	+2	45	+2	WNW	3	NW	bc	4	1	46	40	bcp	bcp	bcp.bc	8.0
Blacksod Point	1037.2	44	NW	3	bc	1044.9	+3	44	+1	W	1	-	bc	1	1	45	36	bc	bc	bc	*
Roche's Point	1037.3	47	NNW	3	b	1045.0	+3	41	-1	NNW	2	N	bc	2	0.1	51	37	bbc	bcb	bw	*
Birr Castle	1037.3	42	NW	2	c	1044.9	*	31	-3	NW	1	-	b	*	-	49	30	c.	c.	c.bx	6.4
Donaghadee	1034.1	44	NW	3	bcq	1042.2	+4	38	-2	WNW	2	-	bm	0	-	49	38	bc	bcq	bcm	*
Liverpool (Bidston)	1033.4	42	NW	2	b	1041.5	+4	40	-3	NW	2	-	b	1	1	46	39	ro	b	bx	3.1
Holyhead	1034.1	45	NNW	4	b	1042.0	+3	44	+1	N	4	-	b	2	0.4	47	42	rcbcb	⊞ b	b	6.7
Pembroke (St. Ann's Head)	1035.1	44	N	2	b	1042.4	+3	41	-3	N	1	-	b	3	-	48	40	c	bc	b.	4.8
Scilly (St. Mary's)	1034.3	47	N	5	bc	1041.6	+3	45	-2	NNE	4	N	bc	5	-	49	44	oc	cbc	bc.b.bc	6.0
Jersey (St. Aubin)	1028.0	47	NW	2	od	1035.9	+2	44	-3	NNE	5	-	o	4	8	50	44	or	or od.	odm.or	0.0
Portland Bill	1028.4	46	NNE	5	o	1037.6	+5	43	-5	N	5	-	b	5	2	49	38	op	or	o.bc.b	*
Dungeness	1027.3	47	SW	2	c	1035.0	+3	42	-3	NE	5	NE	c.	5	5	48	41	bcc	c	or.ccc	*
Wick	1026.1	37	W	3	omr	1033.8	+3	39	+2	SW	3	-	bc	2	2	46	34	cbc	bcsh	om.bcp	*
Nairn	1029.0	39	WNW	3	bc	1036.0	*	40	+6	W	1	-	cg	1	0.2	43	34	bcpg	bcq	bcx.c	7.6
Leith	1030.5	41	SW	2	b	1039.0	+2	37	-2	W	2	W	b₀	2	-	48	35	c.bc.	b.	b.bx.b	*
Tynemouth	1030.3	43	NNW	2	bcif	1039.9	+2	34	-9	W	2	-	bif	2	0.2	48	34	bcmp	bcm	bz	*
Spurn Head	1031.3	43	N	3	or	1038.5	+3	37	-6	N	4	-	bx	3	4	46	32	rmov	ob	b.bx	*
Yarmouth (Gorleston)	1027.6	44	N	4	o	1036.3	+5	41	+2	NNE	4	-	b	3	3	47	38	omrof	om	op.bc.	1.5
Clacton-on Sea	1027.8	49	N	2	m	1037.0	+4	37	-6	NW	3	-	bcm	2	22	49	37	com	ogmpd	ogr.bc	0.1
Nottingham	1031.7	44	NNW	1	cm	1040.4	*	37	-7	N	2	-	b	ẋ	7	47	35	ogmr	rocm	c.bm	0.0

6.0

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* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 4.

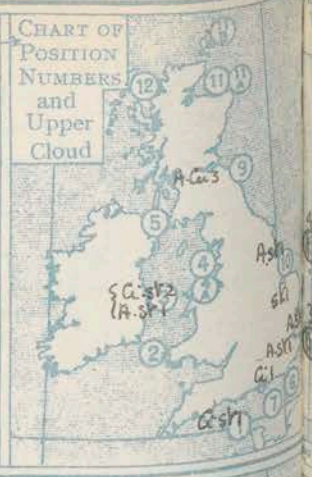
M.O. FORM 2370

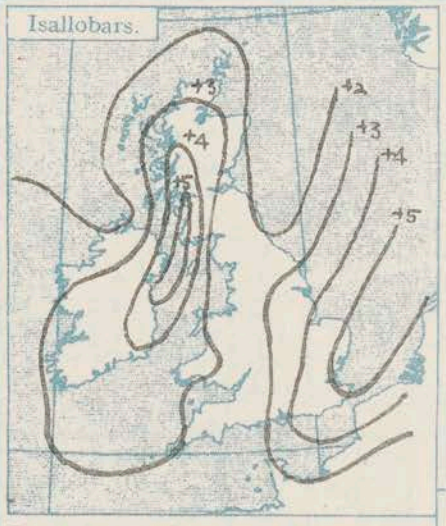
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 26.2.21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Variable sky, misty, local squalls.	Indif.	R. Rough
2. E. England	Fine, local mist.	"	Slight
3. E. Midlands	Fine, local frost.	Indif.	-
4. W. Midlands	Fine, frosty.	Good.	-
5. S.W. England	Fine or fair.	Good.	R. Rough
6. South Wales	Fine, frost inland.	V. Good	Slight
7. North Wales	Fine.	Good.	Smooth
8. N.W. England	Fine, local mist & frost.	Var.	Smooth
9. N. Midlands	Fine, frosty.	Fair.	-
10. N.E. England	Fine, local frost & mist.	Fair.	Smooth
11. E. Scotland	Fine to cloudy.	Fair.	Smooth
12. S.W. Scotland	Fine to cloudy, local frost.	Var.	Slight
13. Isle of Man	Fine.	Good.	Smooth
14. N. & N.W. Scotland	Fair to dull, local showers.	Indif.	Smooth
15. Hebrides	Dull, showery.	"	Slight
16. Orkneys and Shetlands	Fair.	Fair.	Smooth
17. N.W. Ireland	Fair.	Good.	Slight
18. N.E. Ireland	Fine or fair, local mist.	Good.	"
19. S.E. Ireland	Fine, local frost.	Good.	Smooth
20. S.W. Ireland	Fair.	Good.	"

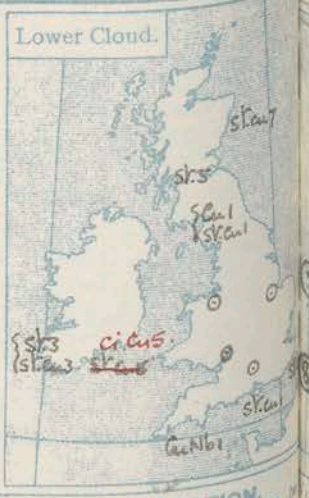
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
4	25th	0430	43	45
7	25th	0432	55	50
5	25th	0826	46	44
3	25th	1015	48	46
8	25th	1026	45	50
6	25th	1500	46	49
7	26th	0345	46	47





Barometric change from 4 h. to 7 h. (half millibars).



EXPLANATION.
BAROMETER.—Isobars are drawn at 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 degrees F.
WEATHER SYMBOLS.—clear sky. sky ¼ clouded. sky ½ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.
SEA DISTURBANCE.—Rough. High.

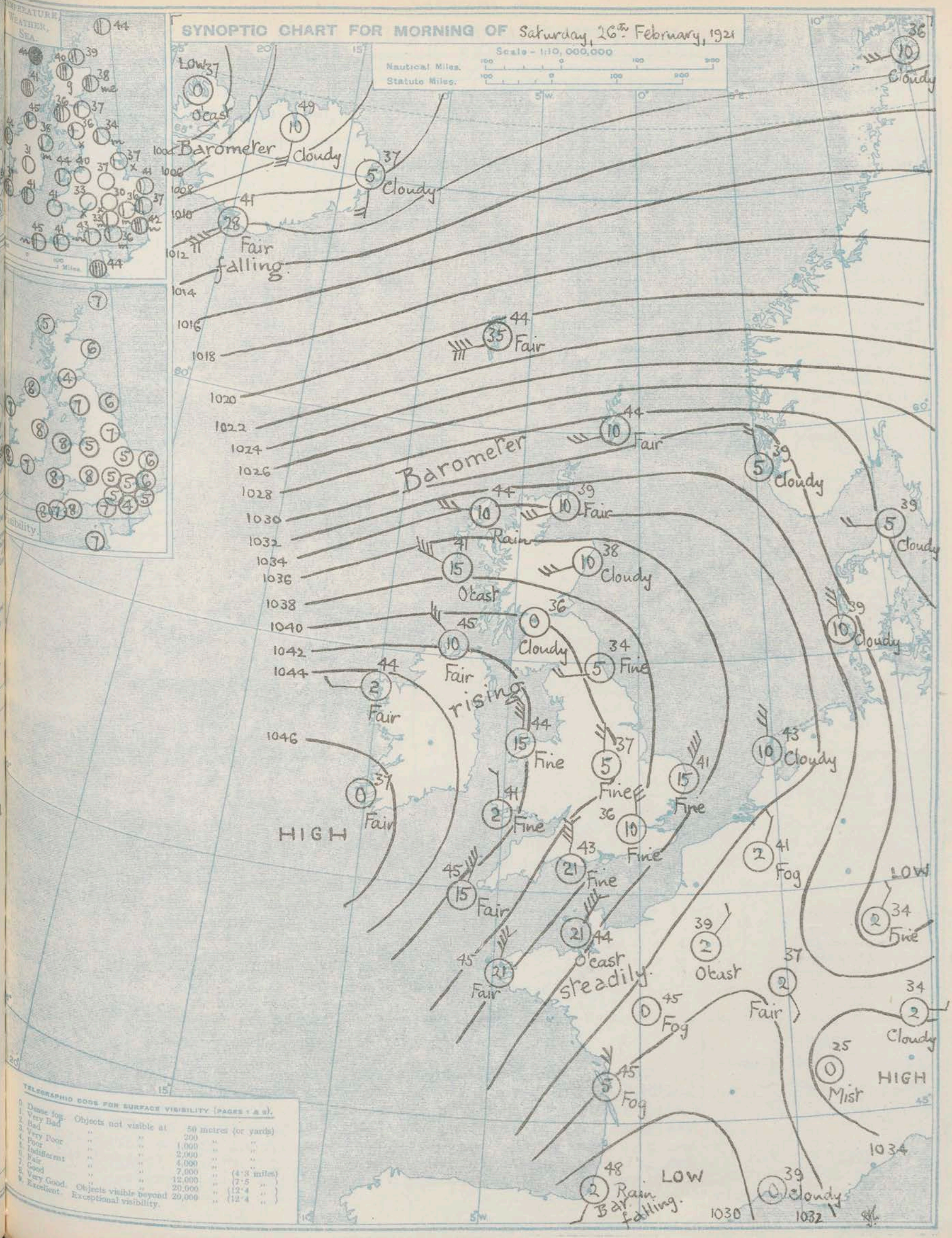
GENERAL INFERENCE from observations received up to 9h.

An extensive antyclone centred off the South-West of Ireland will move or spread over the British Isles generally and cause fair to fine weather - probably for two or three days - over all the more Southern districts, with North or North-West winds and a lower temperature than of late. In Scotland the wind will be Westerly and the weather milder and less fair.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 26th February 1921.	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	Wind mainly North, moderate or light, fresh locally; fair or fine. Visibility good. Rather cold air, local frost at night.	Fair, rather cold over England. Becoming dull and milder in Scotland and Ireland.
10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind from some Westerly point, light to moderate or fresh. Fair to cloudy. Visibility mainly good. Temperature rising.	
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind Westerly to South-Westerly, moderate or fresh; cloudy or overcast, some showers. Milder.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly between North and North-West or West, light; [illegible] or fine. Visibility good. Moderate or rather [illegible] temperature, then rising.	

RS.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 10.00 G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Saturday, 26th February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Barometer
Barometer
LOW
HIGH
HIGH
LOW
rising
steadily
falling
Bar. falling.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres (or yards)
1 Very Bad " " 200 " "
2 Bad " " 1,000 " "
3 Very Poor " " 2,000 " "
4 Poor " " 4,000 " "
5 Indifferent " " 7,000 " (4·3 miles)
6 Fair " " 12,000 " (7·5 ")
7 Good " " 20,000 " (12·4 ")
8 Very Good. Objects visible beyond 20,000 " (12·4 ")
9 Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 57. {Saturday 26th February}

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 24th-25th	Rainfall. Day. 9h-18h. 25th	Sunshine. Sunrise to Sunset. 25th
Scotland.	Banff	bc b	bf	46	37	7	0.2	7.7
England, N.E.	Harrogate	ofoc	cbcb	47	41	1*	1	0.6
	Skegness	mof	fo	49	40	-	7	0.0
England, E.	Lowestoft ...	ocbcc	cof	53	39	-	1	1.0
	Felixstowe	om	om	50	38	-	1	0.1
	Southend-on-Sea...	of3	of	52	42	-	11	0.0
England, S.E.	Tunbridge Wells	ofo	ovf	53	39	-	4	0.0
	Margate	o	co	54	43	-	-	0.5
	Ramsgate	*	*	54	43	-	-	0.8
	Folkestone	fc	co	54	40	-	-	0.6
	Hastings	o	of	51	43	-	3	0.0
	Eastbourne... ...	ofo	of	51	39	-	4	0.0
	Brighton	of	f	49	42	-	5	0.0
	Worthing	of	of	51	43	-	7	0.0
	Portsmouth (S'thsea)	*	*	50	44	1	1	0.0
	Bournemouth ...	*	*	51	42	4	1	0.0
England, N.W.	Blackpool	fo	bc	46	43	6	-	3.8
Midlands.	Leamington Spa...	of	of	47	39	1	2	0.0
	Bath	f	fo	49	43	1	6	0.0
Wales.	Rhyl	f	bc	46	41	8	0.2	3.4
	Colwyn Bay ...	*	*	47	41	10	-	3.9
	Llandudno	*	*	49	42	6	-	3.3
	Aberystwyth ...	fcc	bbc	48	43	6	-	4.7
England, S.W.	Weymouth	m	od.	51	43	4	2	0.0
	Torquay	f	ocbc	49	45	1	5	0.0
	Paignton	ofm	ocbc	49	45	2	5	0.0
	Penzance	ofrc	cbc	50	46	2	0.3	3.5
	Bude	f	cbc	48	44	5	1	1.3
	Ilfracombe	o	ocbcb	48	42	4	-	1.2

SUMMARIES FOR LAST 24 HOURS.

STATIONS.	Weather. 7h-18h 25th	Weather. 18h-18h 25th	Weather. 18h 25th-1h 26th	Weather. 1h-7h 26th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	cozf bopth	fobcc	bifx	b.bczf	48	34	23	1	-	6.3
Eskdalemuir	bcc	bcc bbc	b	b.bcx	46	30	23	-	-	5.9
Valencia (Cahirc'ty) ...	bcc bbc	bbc bcc	b.bc.b	b.bc.b.bc.	49	36	31	-	-	5.7
Baldonnel	bbc	bbcv	b	b.bcx	48	33	27	-	-	8.0
Manchester (Wiles Park)	o3fdd	cozf bccz	b.bc.b3f	bx3f	48	27	19	4	-	.x.
Ross on Wye... ...	pd,rr f,f,	pd,o cov	bc.cv b.bcv	b.bcw.bx	48	32	23	4	-	0.0
Falmouth	f,o	o bbc	b	b	48	40	35	3	-	2.5
Calshot (Hants)... ...	o2f o4-5f	o4f4f f,f,f	2 2 1 7	c.o bc.cbbc	49	36	32	0.3	trace	0.0
Lympne (Folkestone) ...	co3f fo 1f	o1f f,o f,o2f	o4f f,c,f,rr	o5f rr o2f f	49	38	38	0.1	10	0.7
Aberdeen	1fe bbc	bbc b	b	b.bc1fe	49	36	27	-	-	6.7
Howden	f,f, dd	co.co	xb bc	bx	48	25	18	3	-	0.0
Cranwell (Lincs)	o f,f,	rr dd	c.o.b.bc	b	46	32	29	5	-	0.0
Felixstowe	o2f	f f,	rr. f,	bc.c1f	50	36	33	1	2	0.1
Shoeburyness	2f f.	R rr	rr. R	b.bc1fe	54	35	22	12	8	0.0
Benson	f,o	dd	f,f,.c.o	bx.	50	29	20	-	4	.x.
S. Farnborough ...	o2f pdd	rr f,f,	rr.c.o	bc.c.b	51	32	29	5	5	0.0
London (Kew Obsy.) ...	o3f o2f dd	dd o2f	rr.o2f	o2f.bbc	50	36	31	3	1	0.0
Croydon	o2f,o o3f dd	o2f pd f o2f	o3f.o2f f,f	b.o2f	49	35	31	1	1	.x.

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, i.e., rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r,r, = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·4
3	8-12	5·4- 7·9
4	13-18	8·0-10·7
5	19-24	10·8-13·8
6	25-31	13·9-17·1
7	32-38	17·2-20·7
8	39-46	20·8-24·4
9	47-54	24·5-28·4
10	55-63	28·5-32·6
11	64-75	32·7-38·9
12	Above 75	32·6 or above

SYMBOLS — Solar halo; Aurora; Rime; Lunar halo; Glazed frost; Solar corona; Glazed roads; Lunar corona; Line Squall; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 Hours ended 9h G.M.T. 26th							Yesterday.		To-day.
Greenwich (Royal Observatory)	or.	og r.c	bc.b.	52	35	30	2	0.0	94	85
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	b	50	36	31	5	0.0	94	73
Regents Park (Botanical Gdns)	.x.	.x.	.x.	.x.	.x.	*	.x.	0.0	.x.	.x.
Camden Sq. (British Rainfall)	o5.	op.or.	*	49	34	30	4	*	95	85
Kensington Palace	o5r.	o5r	*	50	35	30	4	*	85 (18h)	84
Hampstead Observatory ...	*	*	*	48	33	29	4	0.0	*	83

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

26th & 27th February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	6.49	12.6	5.23
	6.47	12.6	5.25
Greenwich	6.54	12.13	5.32
	6.53	12.13	5.33
Wick ...	7.18	12.25	5.32
	7.16	12.25	5.34
Valencia ...	7.37	12.34	6.12
	7.35	12.34	6.13

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 18 h. 30 m. to 6 h. 0 m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	11. 30	3. 28	29
δ Ursae Minoris	11. 30	3. 20	29

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 50° except at some Southern and South-Western stations. Rain fell very generally, the quantity being considerable over a large area; at Clacton the measurement was 22mm, and at Shoeburyness 20mm. Little or no bright sunshine was recorded in the South and South-East, but in the North and West, the day was fair or bright; in some parts of Ireland and Scotland the sunshine records ranged from 7 to 8 hours.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B.21,647 Sunday, 27th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

STATIONS	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	§ Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
13H. G.M.T. 26th														
Renfrew	1041.6	0	WSW	3	of	49	65	7	2000	StCu	9	A.St	1	
Eskdalemuir	1042.4	+2	WSW	2	o	45	75	6	3000	StCu	9	A.St	1	*
Valencia (Cahirc'n)	1048.0	0	NW	2	c	49	65	8	3000	StCu	8	-	-	3
Baldonnel	1046.0	0	WSW	1	bc	47	75	8	4200	Cu	1	Ci.	5	*
Manchester (Alex PK)	1043.4	+1	WNW	2	b	46	75	4	-	-	-	-	-	*
Ross on Wye	1042.6	+1	NNE	2	b	41	55	8	2000	St.	1	-	-	*
Falmouth	1042.8	0	NNE	4	b	49	65	8	-	Cu	1	-	-	*
Calshot (Hants) *	1041.3	+2	N	4	bif	48	65	7	3000	Cu	1	-	-	3
Lympne (Folkestone)	1039.9	+4	NE	6	bcq v	45	~~65~~ 71	9	2000	Cu	5	A.St	1	*
Aberdeen	1037.8	0	W	3	o	49	65	8	5700	StCu	9	-	-	2
Howden	1042.7	+1	N	1	b	47	65	~~8~~ 6	4200	St.	1	-	-	*
Cranwell (Lincs)	1042.0	+2	NNW	1	bif	45	75	7	4200	Cu	1	-	-	*
Felixstowe	1041.4	+1	NNE	3	bc	47	65	7	2000	Cu	4	-	-	*
Shoeburyness	1041.0	+3	NE	5	b	47	65	7	7200	Cu	2	-	-	*
Benson	1041.9	+2	N	3	bc	47	65	5	-	StCu	2	-	-	*
S. Farnborough	1041.4	+2	ENE	3	b	47	65	7	4200	Cu	3	-	-	*
London (Kew Obsy.)	1041.6	+2	NE	3	bzf	47	65	5	5700	Cu	1	-	-	*
Croydon	1041.3	+2	NNE	4	bczf	47	65	5	2000	Cu	6	-	-	*
1H. G.M.T. of 27th														
Renfrew	1039.6	--	SW	4	o	45	92	8	3,000	St Cu	4	A St	2	4
Eskdalemuir	1040.4	-2	SW	4	o	4[illegible]	85	6	3,000	St Cu	10	-	.	*
Valencia (Cahirc'n)	1048.3	0	-	0	bc	49	*	*	*	*	*	*	.	1
Baldonnel	1045.[illegible]	-1	WSW	2	c	43	85	4	4200	St Cu	8	.	.	*
Manchester (Alex PK)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1045.4	0	NNE	1	bw	36	92	7	.	.	.	.	-	*
Calshot (Hants)	1044.7	0	NW	2	bf	36	92	4	.	.	.	.	.	1
Lympne (Folkestone)	1043.4	+1	NE	1	b	~~3[illegible]~~ 33	97	8	.	.	-	.	.	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1042.6	-2	WSW	2	bif	35	97	4	4200	St	2	.	.	*
Cranwell (Lincs)	1043.2	-1	W	1	bc	46	97	5	5700	St Cu	2	A St	2	*
Felixstowe	1044.5	0	NNW	1	bzf	[illegible]	[illegible]	5	-	.	.	-	.	3
Shoeburyness				*	*	*	*	*	*	*	*	*	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1044.3	0	*	*	*	35	*	*	*	*	*	*	-	*
Croydon	1045.2	0	5	1	bx3f	~~34~~ 30	97	2	-	-	.	.	.	*

STATIONS	Barom. at M.S.L. mb.	‡ 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 Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
18H. G.M.T. of 26th														
Renfrew	1041.7	+1	WSW	3	of	47	~~92~~ 85	7	3000	StCu	8	A.St	1	*
Eskdalemuir	1042.5	+1	W	2	c	43	85	7	3000	StCu	5	A.St	2	*
Valencia (Cahirc'n)	1047.9	+1	NNW	2	bc	47	75	8	3000	Cu	1	Ci Cu	4	3
Baldonnel	1045.8	+1	W	2	bc	46	75	8	4200	StCu	1	A.St	2	*
Manchester (Alex PK)	1044.8	+1	WNW	3	bzf	42	92	3	2000	StCu	1	-	-	*
Ross on Wye	1043.5	+1	NNE	1	b	42	75	6	-	-	-	A.St	1	*
Falmouth	1043.7	0	N	3	b	45	75	8	-	-	-	A.St	1	*
Calshot (Hants)	1043.2	+1	NNE	3	b	45	75	8	5700	StCu	1	-	-	2
Lympne (Folkestone)	1041.6	+1	NE	6	bq	39	85	8	2000	StCu	1	-	-	*
Aberdeen	1037.8	0	WSW	3	cife	46	65	6	4200	StCu	5	Ci St	2	2
Howden	1043.0	+1	ENE	0	oz	43	75	7	3000	St.	6	A.St	3	*
Cranwell (Lincs)	1043.2	+2	-	0	bif	41	92	6	-	-	-	Ci	1	*
Felixstowe	1043.2	+4	NE	3	bif	41	85	6	-	-	-	A.St	1	*
Shoeburyness	1042.6	+2	NE	2	b	39	85	6	-	-	-	-	-	*
Benson	1043.1	0	-	0	b	41	75	6	-	-	-	-	-	*
S. Farnborough	1042.2	+2	N	2	bz	42	75	6	3000	St.	2	-	-	*
London	1043.1	+3	N	2	bzf	44	65	5	-	-	-	-	-	*
Croydon	1043.3	+3	NE	3	czf	43	75	3	2000	St.	7	-	-	*
7H. G.M.T. of 27th														
Renfrew	1037.3	-2	SW	6	of	46	92	4	1450	St	10	-	-	4
Eskdalemuir	1038.5	-2	WSW	4	o	41	85	4	2,000	St Cu	9	-		*
Valencia (Cahirc'n)	1045.8	-1	NE	1	o	42	62	8	4200	St Cu	10	-	.	3
Baldonnel	1044.3	-2	WNW	1	bc	40	85	8	4200	St Cu	4	.		*
Manchester (Alex PK)	1041.6	-1	W	2	ozf	41	92	4	3000	St Cu	6	A St	4	*
Ross on Wye	1044.8	0		0	cx	29	92	3	-	.		Ci	7	*
Falmouth	1045.2	0	N	1	bx	36	97	8	-					*
Calshot (Hants)	1044.6	0	NW	1	bif	32	97	4	-	.	.	Ci	3	0
Lympne (Folkestone)	1043.6	0	.	0	bzif	31	97	6	.	.	.	Ci	3	*
Aberdeen	1030.4	-4	WSW	4	o	48	75	8	4200	St Cu	9	.	.	3
Howden	1041.4	0	SW	3	c	36	94	5	2,000	St	4	A St	5	*
Cranwell (Lincs)	1042.8	0	W	2	czf	40	94	4	3200	St	4	A Ci	2	*
Felixstowe	1043.9	+1	W	2	bif	35	92	5	-	-	.	-	.	0
Shoeburyness	1043.4	0		0	cwex	31	85	5	-	.		Ci	7	*
Benson	1044.2	0	-	0	bf	32	97	1	-			-	.	*
S. Farnborough	1044.5	0	WNW	2	ozfx	25	97	1	<500	[illegible]	10	.	.	*
London	1044.6	+1	-	0	bzx	21	92	2	-	-	-	Ci Cu	5	*
Croydon	1044.9	0	-	0	ozf	28	97	3	-	-	.	Ci	2	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS	18H. G.M.T. of 26th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7H. G.M.T. of 27th: Barometer at M.S.L. mb.	‡ Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9
Lerwick	1028.6	47	SW	4	o	1019.8	-1	47	+3	NW	6	NW	bcy	4
Stornoway	1035.5	46	WSW	3	o	1029.5	-2	49	+5	WSW	5	-	opq	4
Castlebay (Barra Is)	1039.9	46	W	4	o	1034.5	-2	48	+4	W	5	-	odp	4
Malin Head	1042.5	47	W	3	om	1038.0	-1	46	+4	SW	3	5	om	4
Blacksod Point	1045.1	48	W	2	o	1041.7	-2	48	+2	W	3	-	c	3
Roche's Point	1046.9	45	N	1	b	1046.1	-1	40	-1	NW	1	-	o	1
Birr Castle	1046.3	48	NW	1	c	1044.4	*	42	+11	W	1	-	o	*
Donaghadee	1044.2	47	WNW	1	bc	1041.6	-3	40	+2	WNW	2	-	bc	2
Liverpool (Bidston)	1044.3	43	WNW	3	b	1042.8	-1	44	+1	W	4	W	o	3
Holyhead	1044.7	46	NW	3	bz	1043.0	0	45	+1	W	4	-	o	2
Pembroke (St. Ann's Head)	1045.1	44	NE	2	b	1045.1	-1	42	+[illegible]	NNW	1	-	b	2
Scilly (St. Mary's)	1043.3	46	NE	4	bc	1045.1	0	44	-4	E	1	-	b	3
Jersey (St. Aubin)	1039.3	46	NE	5	bc	1043.1	0	36	-8	NE	3	-	b	3
Portland Bill	1042.3	45	NE	5	b	1044.2	0	38	-5	N	3	-	bcm	4
Dungeness	1041.4	43	NE	4	b	1042.8	0	29	-13	N	2	N	b	2
Wick	1034.4	45	WSW	2	o	1026.9	-2	44	+8	WSW	2	-	c	2
Nairn	1036.6	46	W	1	c	1029.4	*	48	+8	W	2	-	cy	2
Leith	1039.4	47	W	2	c	1034.2	-2	50	+8	W	4	-	o	3
Tynemouth	1041.6	46	W	3	bczf	1038.1	-2	43	+9	W	3		c	2
Spurn Head	1041.4	42	SSE	2	bm	1041.0	0	40	+5	W	4	-	cm	2
Yarmouth (Gorleston)	1042.3	42	NNE	3	b	1041.5	0	33	-8	W	3	-	bc	2
Clacton-on-Sea	1042.5	43	ENE	4	b	1043.4	0	34	-3	WNW	2	-	bcmx	1
Nottingham	1043.7	41	W	1	bm	1043.1	*	35	-2	W	1	W	c	3

STATIONS	24 hours ended 7H. 27th: † Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours 26th
Lerwick	6	48	42	o	omr	omrq	·4
Stornoway	1	49	44	opc	op	opq	3.1
Castlebay (Barra Is)	0.2	49	41	ob	o	odp	0.0
Malin Head	-	48	43	om	om	c	0.0
Blacksod Point	-	51	40	bc	o	o.c	*
Roche's Point	0.1	52	38	bcc	bcb	b.o	*
Birr Castle	-	51	29	bc.c	c	o	5.2
Donaghadee	0.2	52	38	bc	bc	bcm	*
Liverpool (Bidston)	-	47	40	b	b	c.o	8.4
Holyhead	-	49	45	bz	bz	b.c	9.4
Pembroke (St. Ann's Head)	-	49	39	b	b	b	8.4
Scilly (St. Mary's)	-	50	40	bc	bc	b	8.0
Jersey (St. Aubin)	-	48	36	obcoc	cbbc	bwx	1.5
Portland Bill	-	45	34	b	b	b.bcm	*
Dungeness	-	44	29	cbc	b	bf.bcz	*
Wick	1	44	38	bcopd	o	o.c	*
Nairn	-	48	39	cg	g	cyg	0.6
Leith	-	50	34	b.bc-c	c.bc.c	c.bco	*
Tynemouth	-	50	33	b.om	b.om	bcm.cm	*
Spurn Head	-	48	30	b	b	cm	*
Yarmouth (Gorleston)	-	47	31	bbc v	bcvbm	bf.bmx	9.8
Clacton-on-Sea	-	45	32	bc	bcb	bm.bcx	9.3
Nottingham	-	43	32	bm	bm	b[illegible]	9.2

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p.4.

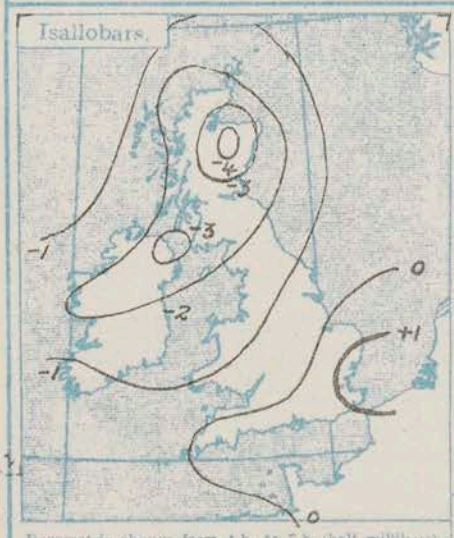
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 27. 2. 1921.

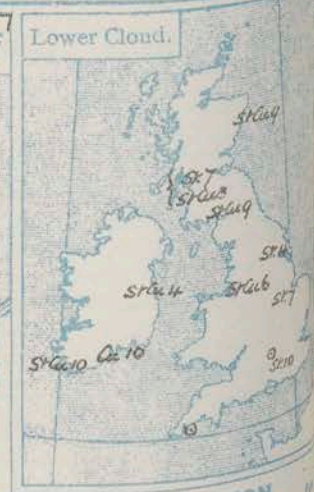
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fine, frosty, fog inland.	Fair on Coast, Bad inland.	V. Smooth.
2. E. England	Fine, local frost & fog.	Poor	"
3. E. Midlands	Dull, misty.	"	-
4. W. Midlands	Dull, misty.	"	-
5. S.W. England	Fine, frosty.	V. Good	Slight
6. South Wales	Fine.	"	Smooth
7. North Wales	Dull.	"	"
8. N.W. England	Dull, misty.	Poor	Slight
9. N. Midlands	Dull.	Indiff.	-
10. N.E. England	Cloudy, misty.	Fair	Smooth
11. E. Scotland	Dull.	V. Good	Slight
12. S.W. Scotland	Dull.	Good	Smooth
13. Isle of Man	Fair, misty, squally.	Fair	"
14. N.& N.W. Scotland	Dull, gloomy.	Indiff.	"
15. Hebrides	Showery, squally.	"	Mod.
16. Orkneys and Shetlands	Fair, squally.	Fair	"
17. N.W. Ireland	Dull.	Good	Slight
18. N.E. Ireland	Fair, misty, squally.	Fair	Smooth
19. S.E. Ireland	Dull.	Good	V. Smooth
20. S.W. Ireland	Dull.	V. Good	Slight.

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
1	26th	1230	49	49
4A	"	0345	44	43
12	"	0415	46	44
5	"	0513	46	44
3	"	0945	48	44
8	27th	0112	45	43
2	"	0200	48	46
7	"	0315	45	44
4A	"	0445	47	46



Barometric change from 4 h. to 7 h. (half millibars).



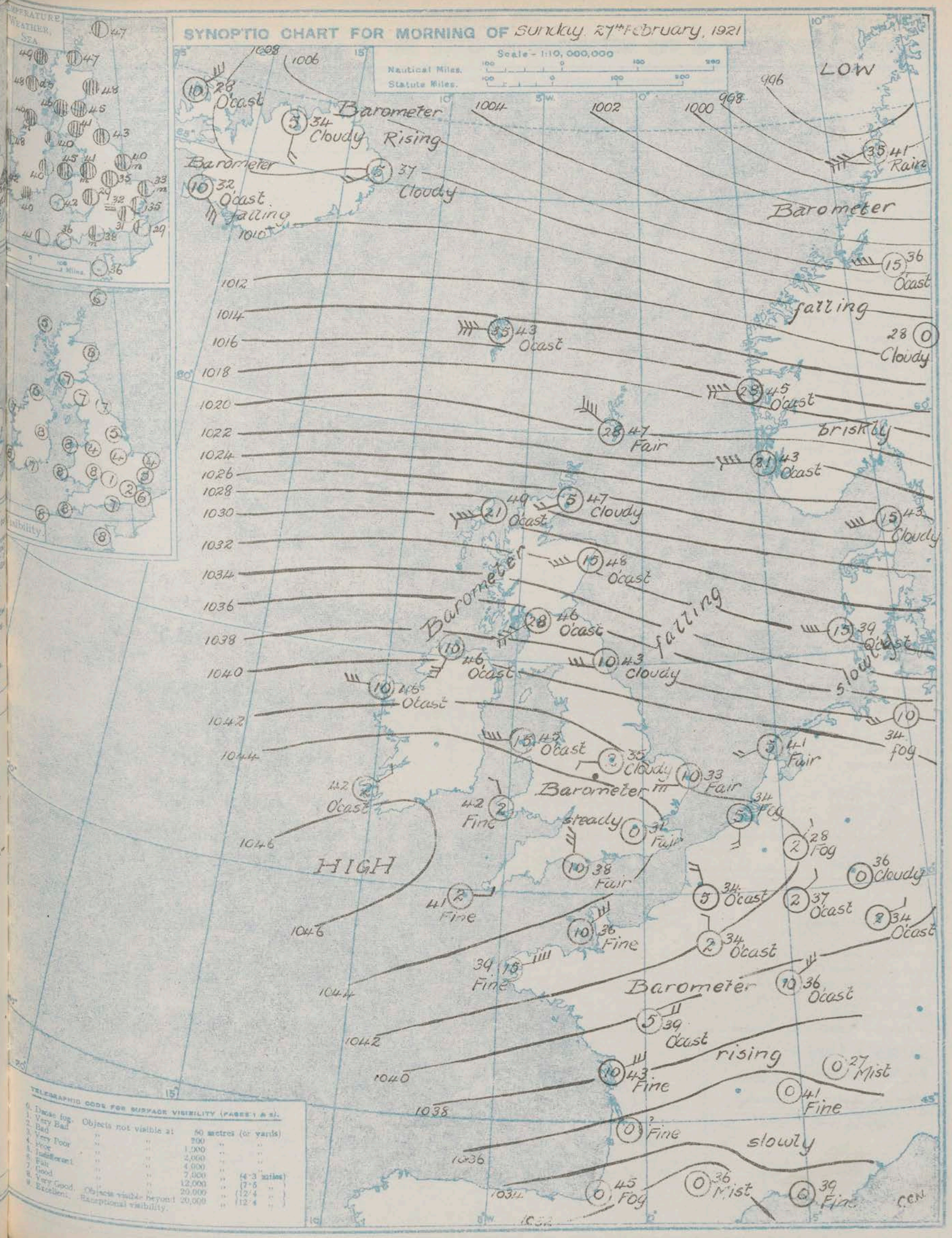
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrow flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—
clear sky. sky ¼ clouded. sky ½ clouded.
sky ¾ clouded. overcast sky. rain (slight). A hail.
snow. sleet. mist.
fog. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

A depression approaching Norway will cause strong Westerly winds and cloudy showery weather over the Northern half of the British Isles but in the South fair cold quiet weather is probable for a day or two, with slight frost inland at night.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday, 27th February, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light breezes from between W. and N.; fair to fine, inland mist or fog at night, with slight frost; rather high temperature for the time of year during the day.	Fair, cold, and quiet weather for the next day or two over Southern England and Southern Ireland.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland	Fresh to strong Westerly winds; much low cloud, some local showers, visibility fair to good; moderate temperature.	
12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Strong Westerly winds; dull, some showers, visibility fair to good; moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate Westerly winds; fair to dull, visibility mainly good; moderate temperature.	

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


SYNOPTIC CHART FOR MORNING OF Sunday 27th February, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
HIGH
Barometer
Rising
Falling
Steady
Briskly
Slowly
Cloudy
Fair
Fine
Fog
Mist
Rain
Ocast
TEMPERATURE
WEATHER
SEA
VISIBILITY
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 ")
7. Good " " 20,000 " (12·4 ")
8. Very Good. Objects visible beyond 20,000 " (12·4 ")
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 58. {Sunday 27th February 1921}

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 16h-9h. 25th-26th	Rainfall. Day. 9h-18h. 26th	Sunshine. Sunrise to Sunset. 26th
Scotland.	Banff	c	bcco	51	35	-	-	0.8
England, N.E.	Harrogate	bbc	bc	50	32	-	-	8.7
	Skegness	b	b	46	33	-	-	9.1
England, E.	Lowestoft	b	bbcb	45	38	1	-	9.7
	Felixstowe	bz	bm	48	40	2	-	9.3
	Southend-on-Sea	cbcb	b	48	33	8	-	8.4
England, S.E.	Tunbridge Wells	b	b	51	34	12	-	7.3
	Margate	cbcb	b	45	41	6	-	7.5
	Ramsgate	*	*	45	39	7	-	8.1
	Folkestone							
	Hastings	obc	bcb	48	39	6	-	6.4
	Eastbourne	ocbc	b	49	39	8	-	6.2
	Brighton	cbcb	b	50	38	9	-	6.5
	Worthing	b	b	49	36	3	-	8.3
	Portsmouth (S'thsea)	*	*	50	36	-	-	9.1
	Bournemouth	*	*	54	35	-	-	9.7
		*	*					
England, N.W.	Blackpool	b	bc	48	35	-	-	9.3
	Southport	b	b	46	34	-	-	8.8
Midlands.	Leamington Spa	b	b	48	33	-	-	8.4
	Bath	b	b	48	36	-	-	8.9
Wales.	Rhyl	b	bbc	47	41	-	-	8.6
	Colwyn Bay	-	-	48	39	-	-	5.2
	Llandudno	b	bbc	49	40	-	-	8.9
	Aberystwyth	occ	bbc	46	32	-	-	9.3
England, S.W.	Weymouth	b	b	50	36	0.2	-	9.5
	Torquay	bz	bz	49	35	-	-	9.6
	Paignton	b	b	49	35	-	-	9.3
	Penzance	bcb	b	50	43	-	-	9.7
	Bude	b	b	49	41	-	-	9.0
	Ilfracombe							

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 26th	18h-18h 26th	18h 26th-1h 27th	1h-7h 27th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	co2f⊖p	copo	c. 0f	c. 0f	47	35	39	-	TRACE	0.7
Eskdalemuir	bbc co	co	bc.c.c.o	c.o.o	44	36	34	-	-	3.5
Valencia (Cahirc'n)	bcc	bbcbcc	bbc	bc.c.c.o	50	36	34	-	-	5.8
Baldonnel	bbc	bccv	bc.c.bc.c	bc.c.f	52	33	34	-	-	3.9
Manchester (Alex Park)	ko4-3f bzf	bcczf	b3f	o.o.of	50	26	27	-	-	*
Ross on Wye	bbc b	bbcz	b3f	o.bcx.bc	48	27	23	-	-	8.7
Falmouth	bbc	bbc.b.bbc	bw	x b	50	35	26	-	-	9.7
Calshot (Hants)	bzf bif	bbcif bbc	bif	b3f	49	31	28	-	-	9.5
Lympne (Folkestone)	bzf bccv	qbbcbbcv	bbq. qb	bx.b bcf	46	28	23	-	-	6.4
Aberdeen	o1fo	o1f	4f	c.o.o	50	38	33	-	-	0.0
Howden	bbc if	z.bbc	b bc.of	o3fx.	50	30	25	-	-	8.2
Cranwell (Lincs)	bzf	bbc bbcv	b.b.bc	3	47	31	27	-	-	9.7
Felixstowe	bbz if	bbc if	b3f	bx	49	30	22	-	-	9.1
Shoeburyness	ifc bbc	bbc b	b.b.bc	2fx	48	28	19	-	-	9.3
Benson	bbc	b	b	b	48	25	22	-	-	*
S. Farnborough	bbc if	bbc if	bx	b.o.of	49	23	19	-	-	9.1
London (Kew Obsy.)	zf	zf	3x	b3fx	48	30	19	TRACE	-	8.4
Croydon	bbc 3f bbc 2f	bcc 2f 3f	b.c 3f b bcf bz	b.b. bcx 3f	48	41	21	-	-	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r.r. = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora; Rime; Glazed frost; Glazed roads; Line Squall; Solar halo; Lunar halo; Solar corona; Lunar corona; Snow lying.

LONDON. OBSERVATIONS.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours.	Humidity % 15 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. 27th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	b	b	bm. bx	50	29	20	-	6.9	59	85
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	*	50	29	26	-		60	97
Regent's Park (Botanical Gdns.)	*	*	*	*	*	*	*		*	*
Camden Sq. (British Rainfall)	b.bc	bc	*	51	29	23	-	*	59	94
Kensington Palace	b. bc	bc	*	49	30	22	-	*	71 (18h)	95
Hampstead Observatory	*	*	*	47	30	21	-	9.0	*	85

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

27th + 28th February 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.47	12.6	5.25
	6.45	12.6	5.27
Greenwich	6.53	12.13	5.33
	6.51	12.13	5.35
Wick	7.16	12.25	5.34
	7.14	12.25	5.36
Valencia	7.35	12.34	6.13
	7.33	12.34	6.15

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

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

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

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell in the extreme North, 6mm at Lerwick and 1mm at Wick and Stornoway. The day was rather warm, maximum temperatures ranging from 45° to 52°, but frost occurred in several places at night. The minimum was as low as 23° at South Farnborough and 26° at Manchester. Fog formed in parts of Southern England during the night.

* Information for these columns not usually received.

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

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. No. B 21648 Monday 28th February 1921.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

13h. G.M.T. 27th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1035.3	–	WNW	5	od	48	92	7	750	Nb	9	A.St	1	
Eskdalemuir	1036.2	-4	WNW	5	o	45	85	7	2,000	St	10		.	*
Valencia (Cahirc'n)	1044.5	-2	WSW	2	o	48	65	3	4,200	St.Cu	10	.	.	3
Baldonnel	1041.8	-3	W	5	o	49	65	8	4200	St.Cu	–	A.St	1	*
Manchester (Alex. Pk)	1040.4	-2	WNW	3	ozg	49	65	6	2,000	St.Cu	5	A.Cu	5	–
Ross on Wye	1042.0	-2	W	3	or	49	65	9	4200	St.Cu	4	Ci	?	*
Falmouth	1043.4	-3	ESE	4	bc	51	65	8	–	St.Cu	3	Ci	1	*
Calshot (Hants)	1042.9	-2 (corrected from -1)	–	0	bzf	46	85	5	3,000	Cu	1	Ci	1	0
Lympne (Folkestone)	1041.5	-2	SSW	2	czf	46	75	5	–	–	.	Ci	8	*
Aberdeen	1029.2	-2	WSW	3	oif	53	65	7	4,200	St.Cu	9	–	.	3
Howden	1039.8	-1	W	5	ozq	48	75	5	3,000	St.Cu	6	Ci.St	3	*
Cranwell (Lincs)	1040.0	-2	WNW	5	c	47	75	5	3,000	St.Cu	4	A.St	2	·
Felixstowe	1041.2	-4	W	2	oif	50	65	6	5,700	Cu	,	Ci.St	8	0
Shoeburyness	1041.5	-3	NW	1	b	50	65	7	7,200	Cu	1	Ci.St	2	*
Benson	1042.2	-2	W	1	b	48	75	5	–	–	–	–	.	*
S. Farnborough	1042.5	-3	WNW	2	bc	50	65	7	4200	Cu	1	Ci.St	5	*
London (Kew Obsy.)	1042.4	-4	WSW	2	bczf	46	75	4	–	.	–	A.Cu	5	*
Croydon	1042.2	-2	WSW	2	czf	49	65	5	–		.	Ci	8	*

18h. G.M.T. of 27th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1031.5	-4	WSW	6	oq	47	85	7	750	St.Cu	6	A.St	4	*
Eskdalemuir	1033.2	-3	WSW	5	oif	45	85	6	2000	St	10	–	–	*
Valencia (Cahirc'n)	1041.7	-3	SW	3	o	46	75	8	4200	St.Cu	10	–	–	3
Baldonnel	1039.0	-2	SW	5	oq	45	85	8	2000	St.Cu	10	–	–	*
Manchester (Alex. Pk)	1038.2	-3	W	4	ozf	46	85	4	3000	St.Cu	5	A.St	5	*
Ross on Wye	1040.1	-2	NW	3	ov	45	75	9	2000	St.Cu	6	A.Cu	4	*
Falmouth	1041.8	-2	NNW	2	bzf	45	85	5	–	St.Cu	2	A.St	1	*
Calshot (Hants)	1041.1	-1	SW	3	oif	44	92	6	5700	St.Cu	7	A.St	2	2
Lympne (Folkestone)	1040.1	-2	WSW	3	cif	41	85	6	4200	St.Cu	5	Ci	3	*
Aberdeen	1026.2	-3	SW	3	cif	52	65	6	5700	St.Cu	8	–	–	2
Howden	1036.2	-2	WSW (corrected to W)	4	oif	44	85	6	3000	St	7	A.St	2	*
Cranwell (Lincs)	1037.7	-2	W	1	oif	44	85	8	2000	St.Cu	10	–	–	*
Felixstowe	1039.7	0	NW	3	oif	46	65	6	4200	St	10	.	–	0
Shoeburyness	1040.1	-1	W	1	o	46	75	6	2000	St.Cu	10	–	–	*
Benson	1040.0	-1	SW	1	o	45	75	5	–	St	10	–	–	*
S. Farnborough	1040.4	-2	W	1	oz	47	75	6	3.000	St.Cu	10	–	–	*
London (Kew Obsy.)	1040.4	-2	W	1	ozf	47	75	3	3.000	St.Cu	10	–	–	*
Croydon	1040.6	-1	W	2	ozf	47	65	5	3.000	St.Cu	9	A.St	1	*

1h. G.M.T. of 28th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1028.6	-2	SW	5	oif	46	95	7	1250	St	10	–	–	*
Eskdalemuir	1027.6	-4	WSW	6	oq if (corrected)	42	85	6	2000	St	4	A.St	6	*
Valencia (Cahirc'n)	1038.4	?	WNW	2	o	47	*	*	*	*	*	*	*	1
Baldonnel	1035.7	-5	S	5	oif	44	75	5	2000	St	10	–	–	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1040.3	-3	NNW	1	b	38	97	8	–	–	–	A.Cu	2	*
Calshot (Hants)	1039.2	-2	NNW	1	b	37	92	8	5700	St.Cu	2	A.St	1	0
Lympne (Folkestone)	1037.4	-4	W	4	bczf	37	92	5	4200	St.Cu	4	–	–	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1033.4	-2	SW	3	o	44	85	6	2000	St	10	–	–	*
Cranwell (Lincs)	1034.7	-3	W	4	o	42	97	7	2000	St	10	–	–	*
Felixstowe	1036.9	-4	W	3	oif	43	75	6	4200	St.Cu	10	–	–	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1h.)			*	*	*	41	*	*	*	*	*	*	*	*
Croydon	1038.4	-3	W	3	bcif	39	95	6	–	–	–	Ci.St	6	*

7h. G.M.T. of 28th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Upper Cloud Amt. 0-10	Sea 0-9
Renfrew	1024.8	-5	SW	4	od	45	92	5	1250	Nb	10	–	–	*
Eskdalemuir	1027.3	-2	SW	6	ozf	41	92	5 (corrected from 7)	2000	St	10	–	–	*
Valencia (Cahirc'n)	1035.1	-2	W	4	o	47	75	8	3000	St.Cu	10	–	–	4
Baldonnel	1032.1	-3	SW	5	oq	44	75	7	2000	St	10	–	–	*
Manchester (Alex. Pk)	1033.2	-2	W	3	ozf	44	85	5	1250	St	10	–	–	
Ross on Wye	1035.3	-2	W	2	c	41	55	8	3000	St.Cu	3	Ci	5	*
Falmouth	1038.8	-2	W	1	bx	35	97	8	–	.	–	A.Cu	2	*
Calshot (Hants)	1037.5	-2	WSW	2	c	34	92	8	–	–	–	A.St	8	1
Lympne (Folkestone)	1036.4	-2	W	2	oifx	36	92	6	3000	St.Cu	5	A.St	5	*
Aberdeen	1019.3	-1	SSE	2	oif	48	75	7	4200	St.Cu	10	–	–	2
Howden	1030.5	-2	W	5	oqm	44	84 (corrected from 76)	6	3000	Nb	6	A.St	3	*
Cranwell (Lincs)	1032.5	-1	W	3	c	42	92	7	2000	St	5	A.St	3	*
Felixstowe	1035.1	-1	WSW	3	oif	42	88	6	3000	St.Cu	10	–	–	2
Shoeburyness	1035.9	-2	WNW	3	c	40	85	7	–	–	–	A.Cu	6	*
Benson	1035.3	-2	W	1	o	36	97	6	–	St.Cu	10	–	–	*
S. Farnborough	1036.9	-1	WSW	2	o	32	97	7	3000	St.Cu	9	A.St	1	*
London	1036.4	-1	SW	2	cmw	37	85	4	3000	St	2	Ci	6	*
Croydon	1036.8	0	W	3	oif	38	92	6	–	–	–	Ci	9	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18h. G.M.T. of 27th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7h. G.M.T. of 28th: Barometer at M.S.L. mb.	Barometer Change in 3 hours	Temperature Temp. °F.	Temperature Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	24 hours ended 7h. 28th: Rainfall mm.	Temp. Max. °F.	Temp. Min. °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (27th)
Lerwick	1016.9	48	W	5	omrq	1008.4	-4	47	0	W	4	–	omrq	3	16	48	45	cmq	omrq	omrq	*
Stornoway	1024.0	48	W	7	odq	1015.5	0	48	-1	W	6	–	orq	5	9	50	47	odpq	odq	orq	0.1
Castlebay (Barra Is)	1028.4	49	WSW	5	odp	1019.9	-3	49	+1	WSW	5	–	d	6	1	49	48	odpcm	cmodp	odpod	0.3
Malin Head	1032.7	46	W	4	oif	1024.0	-3	47	+1	SW	4	–	oif	4	–	49	45	cm	cm	om	1.2
Blacksod Point	1036.8	49	SW	3	o	1031.8	-2	49	+1	SW	3	–	zeomg	2	0.1	50	46	o	o	o	*
Roche's Point	1042.0	47	W	2	o	1036.7	-3	45	+5	W	1	–	o	1	–	48	40	o	o	o	*
Birr Castle	1040.1	47	W	2	o	1033.1	*	45	+3	SW	2	–	o	*	–	51	40	o	o	o	0.0
Donaghadee	1036.0	48	W	3	cm	1029.3	-3	46	+6	WSW	3	–	bcm	3	–	51	40	bcq	bcq	om	*
Liverpool (Bidston)	1038.0	45	W	4	o	1032.6	-2	44	+3	W	5	W	o	4	–	48	41	o	o	oq	1.6
Holyhead	1038.5	47	WSW	4	o	1033.1	-2	45	0	WSW	5	–	o	3	–	50	44	oc.o	ocbc.o	og	1.2
Pembroke (St. Ann's Head)	1042.0	46	NNW	2	o	1036.5	-2	46	+4	W	3	–	ov	3	–	49	41	c	cov	ov	2.0
Scilly (St. Mary's)	1042.7	47	NNE	2	c	1038.5	-2	44	+3	–	0	–	c	3	–	54	41	b	bbc.c	cb.bc	8.0
Jersey (St. Aubin)	1041.4	45	N	2	bc	1038.6	0	33	-3	NE	2	–	b	1	–	50	33	b	b.bc	bwx	9.5
Portland Bill	1042.2	44	–	0	bc	1037.8	-4	44	+6	W	2	–	bc	3	–	49	37	bcmb	b.bc	bcbbc	*
Dungeness	1039.9	44	WSW	3	c	1035.8	-1	39	+10	WSW	3	–	c	3	–	37	29	bczbc	bcc	bcbbc	*
Wick	1022.3	48	W	4	oq	1014.2	-2	47	0	SW	4	–	om	3	0.3	53	46	com	omoq	oqbcoqp	*
Nairn	1025.4	49	W	2	c	1016.8	*	47	-1	WSW	2		cdg	1	1	54	46	cgq	cg	cqp	1.4
Leith	1029.9	48	W	3	o	1023.9	-1	45	0	WSW	5	–	o	3	–	50	45	ogo	ougo	oqgo	*
Tynemouth	1030.4	47	W	3	czf	1027.1	-3	46	+3	W	4	–	oifq	3	–	50	40	bcmq	cm	cmomq	*
Spurn Head	1035.1	44	W	4	bcm	1030.5	-2	44	+4	W	4	–	c	3	–	47	37	cm	bcm	bcmomq	*
Yarmouth (Gorleston)	1037.6	45	WNW	3	o	1032.1	-2	41	+8	WSW	4	–	o	1	–	50	32	bcm	bccom	o	4.1
Clacton-on-Sea	1039.7	46	WNW	3	o	1035.1	-1	41	+7	W	3	–	og	3	–	50	33	bcm	bcmog	ocgoc	5.4
Nottingham	1038.3	45	SW	2	c	1032.7	*	43	+8	W	4	W	c	4	–	48	33	c.o	c.o	c.o	1.6

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p.4.

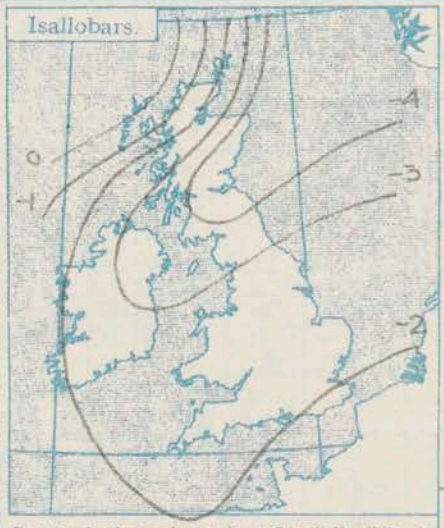
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T 28. 2. 1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudy, mist locally.	Fair	Slight
2. E. England	Overcast.	"	"
3. E. Midlands	Overcast.	"	-
4. W. Midlands	Overcast or cloudy.	Good	-
5. S.W. England	Fair to cloudy.	"	Slight
6. South Wales	Overcast.	V. Good	"
7. North Wales	Overcast.	Good	"
8. N.W. England	Dull, local mist.	Fair	Mod.
9. N. Midlands	Dull, some mist.	"	-
10. N.E. England	Dull, misty.	"	Slight
11. E. Scotland	Dull.	Good	"
12. S.W. Scotland	Dull, misty; local drizzle.	Fair	Mod.
13. Isle of Man	Fair to dull.	"	Slight
14. N. & N.W. Scotland	Dull, squally, some drizzle.	Indiff.	Mod.
15. Hebrides	Dull, squally, some rain.	"	R. Rough
16. Orkneys and Shetlands	Dull, squally, some rain.	Poor	Mod.
17. N.W. Ireland	Dull, misty.	"	Smooth
18. N.E. Ireland	Fair to dull, misty.	Fair	Mod.
19. S.E. Ireland	Dull.	Good	Smooth
20. S.W. Ireland	Dull.	Good	Mod.

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
3	27	?	48	47
6	27	1500	46	47



Barometric change from 4 h. to 7 h. (half millibars).

EXPLANATION.
BAROMETER.—Isobars are drawn at 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 degrees F.
WEATHER SYMBOLS.—clear sky. sky ½ clouded. overcast sky. sky ½ clouded. rain falling. snow. sleet. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough High

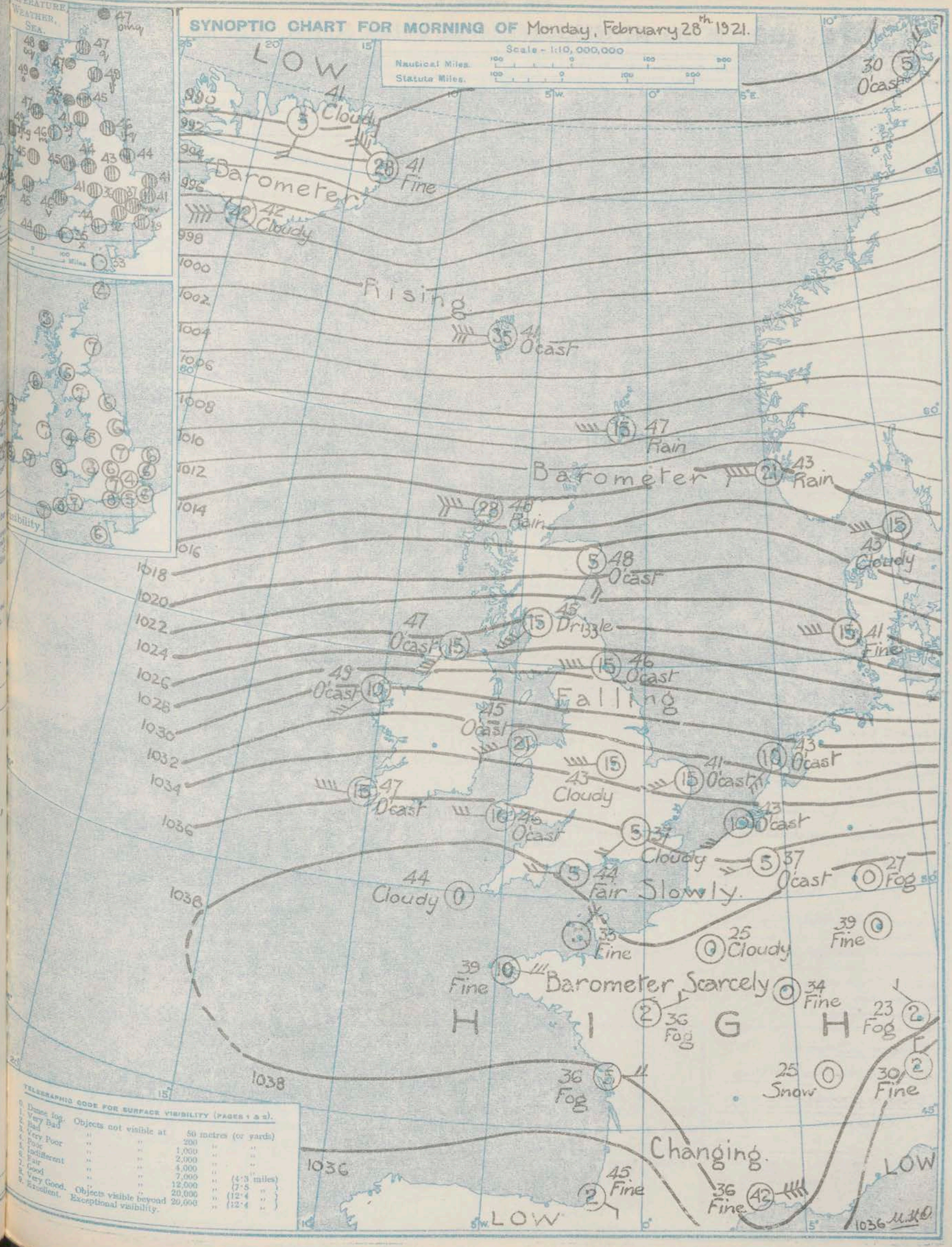
GENERAL INFERENCE from observations received up to 9h.

The anticyclone over the Bay of Biscay and the low pressure system to the North will probably maintain Westerly winds for a day or two. Much cloud will prevail and local rain or showers may be anticipated.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 28th February, 1921.	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, perhaps some local showers, visibility fair; moderate temperature.	Rather mild, with Westerly winds; much cloud, rain in places.
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 19. S.E. Ireland 20. S.W. Ireland	Wind Westerly, moderate to strong; cloudy, local rain or showers, visibility fair; rather mild.	

F.S.6.

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


SYNOPTIC CHART FOR MORNING OF Monday, February 28th 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer
Rising
Barometer
Falling
Barometer Scarcely
Slowly.
Changing.
HIGH
LOW
LOW
TEMPERATURE, WEATHER, SEA.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres (or yards)
1. Very Bad " " 200 " "
2. Bad " " 1,000 " "
3. Very Poor " " 2,000 " "
4. Poor " " 4,000 " "
5. Indifferent " " 7,000 " (4·3 miles)
6. Fair " " 12,000 " (7·5 "
7. Good " " 20,000 " (12·4 "
8. Very Good. Objects visible beyond 20,000 " (12·4 "
9. Excellent. Exceptional visibility.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 59 ... MONDAY 28th FEBY

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 26th-27th	Rainfall. Day. 9h-18h. 27th	Sunshine. Sunrise to Sunset. 27th
Scotland.	Banff	c	cbcc.o	55	43	–	–	1.1
England, N.E.	Harrogate	bbc	bc.o	47	37	–	–	1.3
	Skegness	c.b	b.o	50	33	–	–	4.0
England, E.	Lowestoft ...	ocbc	bc.o	51	31	–	–	3.4
	Felixstowe	bz	ozm	51	38	–	–	5.9
	Southend-on-Sea...	wmbc	bcx	50	31	–	–	3.2
England, S.E.	Tunbridge Wells	b	bc.o	52	26	–	–	5.0
	Margate	b	bc	51	36	–	–	3.4
	Ramsgate	*	*	50	32	–	–	5.3
	Folkestone	bc.b	b.bc	50	36	–	–	8.0
	Hastings	b	bbc.o	48	34	trace	–	7.4
	Eastbourne	bc.c	bc.c.o	49	31	0.2	–	7.1
	Brighton	b	b.bc.c.o	48	31	–	–	6.5
	Worthing	b	b	48	30	–	–	7.0
	Portsmouth (S'thsea)	–	–	51	29	–	–	8.0
	Bournemouth	*	*	52	30	–	–	6.3
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h.	Rainfall. Day. 9h-17h.	Sunshine. Sunrise to Sunset.
England, N.W.	Blackpool	c.o		48	43	–	–	3.5
	Southport	bcco	co	48	42	–	–	2.7
Midlands.	Leamington Spa...	b	bc	47	30	–	–	2.2
	Bath	b	bbc.c	52	27	–	–	5.1
Wales	Rhyl	bc.c	c	50	37	–	–	1.8
	Colwyn Bay ...	–	–	49	48	–	–	2.2
	Llandudno	*	*	49	42	–	–	1.7
	Aberystwyth ...	o.c.o	c.c.o	46	35	–	–	0.3
England, S.W.	Weymouth	mbbc	bc	53	32	–	–	7.2
	Torquay	bz	bbcb	52	35	–	–	8.2
	Paignton							
	Penzance	b	bc.b	54	36	–	–	8.1
	Bude	w.x.b	b	50	29	–	–	7.0
	Ilfracombe	bc.b	bbc.c	49	35	–	–	6.6

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 27th	Weather. 13h-18h 27th	Weather. 18h 27th-1h 28th	Weather. 1h-7h 27th	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	0if pq	0if pq	0if r.q	0ifddd	49	45	43	–	0.1	0.0
Eskdalemuir	r.o	001f.	0.0if	r.02f	45	39	39	–	0.1	0.0
Valencia (Cahirc'n) ...	o	o	o	o	48	42	44	–	–	0.9
Baldonnel	o. o.	oq	01fq	01fq	50	40	41	–	–	0.6
Manchester (Ald. Pk)	03fq	3o2f.r.	02fq	qo2f	50	41	41	–	–	*
Ross on Wye... ...	xc.o.bc.cv	ov.cov	covbcc	oco	50	29	32	–	–	2.1
Falmouth	if.b.bc.c	bbcifbcf	bw	bbcx	52	34	26	–	–	7.2
Calshot (Hants)... ...	bcqf.o8f.b	bbc2fbcifoq	if b	b.bcbcc	49	31	30	–	–	5.4
Lympne (Folkestone) ...	b.bcfc.o	co2f.coif	bcqifbbc2f	bcc2fcoif	46	31	27	–	–	6.7
Aberdeen	if bcc.o.of	bccif	if of	of	55	47	45	–	–	0.8
Howden	u if	coq	q bcc	q o	50	39	32	–	–	2.3
Cranwell (Lincs)	2f c.o	oif	o	.o	48	36	39	–	–	3.0
Felixstowe	2f c.o	o.of	co.of	of	51	34	37	–	–	5.5
Shoeburyness	fr. b.2	bbc.o	o	cobcc	51	29	38	trace	–	4.6
Benson	o6-8f.b	o	bcc	bcco	51	31	24	–	–	*
S. Farnborough ...	04-5f.bc.o	bcc.o	bcc bbc	b.bbc	52	31	25	–	–	3.7
London (Kew Obsy.) ...	x3f.x-f.bcf	bcco2f	o2f	cobcc	50	31	30	–	–	2.3
Croydon	b.o3fx.2f	co2fo1fo2f	co2f bbcif	bccco1f	51	28	33	trace	–	*

BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).
bc sky partly cloudy (one half covered).
c generally cloudy (three quarters covered).
d drizzle, or fine rain.
e wet air without rain falling.
f fog. g gloom.
h hail. l lightning.
m mist. o overcast sky.
p passing showers.
q squalls. r rain.
rs sleet, *i.e.*, rain and snow together.
s snow. t thunder.
u ugly, threatening sky.
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.

Capital letters indicate intensity, and repetition of letters continuity, thus:-
R = heavy rain.
rr = continuous moderate rain.
r_0r_0 = continuous light rain.

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 30 feet above ground. Statute miles per hour.	Metres per second.
0	Less than 1	Less than 0·3
1	1- 3	0·3- 1·5
2	4- 7	1·6- 3·3
3	8-12	3·4- 5·4
4	13-18	5·5- 7·9
5	19-24	8·0-10·7
6	25-31	10·8-13·8
7	32-38	13·9-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·4
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

SYMBOLS— Aurora ☆ Rime ✕ Solar halo ⊕ Glazed frost ⌣ Lunar halo ◐ Glazed roads ⌓ Solar corona ◎ Line Squall ⊗ Lunar corona ◎ Snow lying ▩

LONDON. OBSERVATIONS.

	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. mm.	Sunshine to Sunset. Hours. Yesterday.	Humidity % 15 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	24 HOURS ENDED 9H G.M.T. 28th									
Greenwich (Royal Observatory)	bm	bc o	ocbca	51	35	31	–	2.1	64	80
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	–	52	33	30	–	2.4	60	78
Regents Park (Botanic Gdns)	*	*	*	*	*	*	*	3.5	*	*
Camden Sq. (British Rainfall)	?	?	*	?	34	30	–	*	*	79
Kensington Palace	xbc	bc	*	51	36	31	–	*	69 (18h)	81
Hampstead Observatory ...	*	*	*	49	32	30	–	5.2	*	85

SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.

Total ..... Joules.

Milliwatts.

Average Rate.

Maximum Rate.

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

28th FEBY & 1st MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.45 / 6.45	12.6 / 12.6	5.24 / 5.26
Greenwich	6.51 / 6.49	12.13 / 12.13	5.28 / 5.30
Wick ...	7.14 / 7.11	12.29 / 12.29	5.48 / 5.49
Valencia ...	7.33 / 7.28	12.24 / 12.26	6.1 / 6.3

Photographic Record of Pole Star (Polaris) and of δ Ursae Minoris at Greenwich Observatory.

Exposure from 27 h. 18 m. 45 h. m.
to 28 h. 5 m. 45 h. m.

Stars.	Duration of Exposure. h.	m	Duration of Record. h.	m.	%
Polaris	19	0	3	6	28
δ Ursae Minoris	11	0	1	59	18

NOTES ON THE WEATHER OF YESTERDAY.

A good deal of rain fell in the extreme North and North-West, Lerwick reporting 16mm. On the mainland, however, the day was generally fair or fine. Several stations in the South recorded 8 hours of sunshine and Jersey had as much as 9.5 hours. Temperature was about normal for the season.

* Information for these columns not usually received.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, February 1921.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st	Calshot	13h Sea 1
	Howden	18h Bar 988.3. Wind SSW.
	Baldonnel	1h Wind W
	Croydon	7h Humidity 97
	Dungeness	7h Max 47
	Jersey	7h Sunshine 5.0
	Nottingham	7h " 0.2
	Felixstowe	7h Max 49 Sunshine 3.5
2nd	Ilfracombe	18h Sunshine 4.6
	Eskdalemuir	13h Temp 37
	Howden	13h " 42
	Baldonnel	18h Cloud ACu.
	Howden	18h Temp 38
	Cranwell	18h " 36
	Renfrew	1h Cloud Height 3000ft
	S. Farnborough	7h Temp 34
	Blacksod	18h " 46
	Felixstowe	7h Max 49 Sunshine 3.5
	Cranwell	7h " 46
3rd	Howden	7h " 43 Min 23 (Grass Min 18)
	Eskdalemuir	13h Temp 41
	Falmouth	13h Humidity 85
	Falmouth	1h Cloud St 10
	Cranwell	1h Bar 1011.7 Wthr 06-8f Temp 28. Vis 2. Cloud St 6 Height 4500
	Ross	7h Weather 04fe
	Donaghadee	18h Wind force 4
	Mairn	18h Bar 1008.8
	Cranwell	7h " 1011.0
	Howden	7h " 1013.0
	Calshot	Weather 1-7h bzfx
	Cranwell	7h Sunshine 3.1
4th	Felixstowe	7h Max 45
	Croydon	18h Weather b4f.
	Falmouth	1h Wind force 3
	Baldonnel	7h " S
	Castlebay	18h Temp 45
	Cranwell	7h Sunshine 6.1
5th	Shoeburyness	7h " 6.9
	Howden	18h Bar 1018.8 Visib: 2
6th	Valencia	7h " 1010.9
	Baldonnel	13h Cloud Height 4200
	Howden	18h Tendency +2
	Cranwell	18h Bar 1024.4. Wind ENE. Temp 38
	Cranwell	1h Cloud Height 2000
	"	7h Temp 38
	Blacksod	7h Max 49
	Pembroke	7h Wind ENE
7th	Calshot	7h Sunshine 4.4
	Eskdalemuir	13h Cloud St 10
	Howden	18h Wind ESE
	Baldonnel	1h Wind force 3 Temp 39 Vis 4 Cloud St 10 2000
	Calshot	7h Bar 1024.6
8th	Baldonnel	7h Max 44 Sunshine 4.2
	Valencia	13h Humidity 75 Visib: 4
	Calshot	13h Wind force 2
	Baldonnel	18h Tendency -1
	Blacksod	7h Weather 04-5f.
	Howden	7h Max 38
9th	Croydon	7h " 36
	Horsham	13h Cloud Height 2500
	Howden	18h Wind Direction SW
	Calshot	1h Tendency +1
		Humidity 92%
	CRANWELL	1H Barometer 1032.4
	RENFREW	7H Vis. 2
	ESKDALEMUIR	" Vis. 6
10th	CLACTON	" Min. Temp. 38°
	HOWDEN	13H Humidity 75%
	"	18H " 92%
	FALMOUTH	" Cloud Cu. 1
	ROSS on Wye	1H Bar. 1041.2
	LIVERPOOL	7H-13H Weather f. bcm
	HOLYHEAD	7H Sunshine 7.8 hr.
	CALSHOT	" " 1.2 "
	HOWDEN	" " 6.6 "
	CRANWELL	" " 0.1 "

Report for	STATION.	CORRECTION.
11th	Renfrew	13h Humidity 97
	Cranwell	13h " 75
	Renfrew	18h Cloud Cu St 8
	London	7h Visibility 4
	Roches pt	7h Temp 37
	Donaghadee	7h Min 38
	Lympne	7h Sunshine 4.5
	Howden	7h " 4.6
	Cranwell	7h " 5.4
12th	Cranwell	18h Cloud Strus ast 5 (4250)
	Tynemouth	18h Wind force 2
	Falmouth	7h Sunshine 2.0
	Lympne	7h " 1.7
13th	Howden	18h Barometer 1031.5
	Howden	1h Tendency -2
	Renfrew	7h Temp 45
	Castlebay	18h " 47 Weather c
14th	Cranwell	7h Wind WNW.
	Stornoway	7h Rain 1
	Blacksod	7h Temp 47 Wind SW
	LYMPNE	7h Sunshine 1.7
15th	Calshot	13h Cloud Height 3000
	Howden	18h Bar 1036.7
	Cranwell	18h Tendency +2
	Baldonnel	1h Humidity 85
	Falmouth	1h " 97
	London	1h Temp 37
	Felixstowe	1h Wind WNW
	Blacksod	18h Temp 47
	Howden	7h Sun: 7.7 Grass Min 31
	Renfrew	7h " 2.3
16th	Valencia	13h Tendency -2
	Calshot	13h Wind force 3
	Eskdalemuir	18h Bar 1013.0
	Cranwell	18h Temp 44
	"	1h Cloud 3000 Strus ast 2
	Mairn	7h Max 52
17th	Howden	13h Bar 1018.9 Wind force 5 Temp 55 Hum 75 Cloud 3000 Cu 6 Cu St 2
	Eskdalemuir	1h Tendency -1
	Baldonnel	7h Bar 1022.7 Wind SW
	Holyhead	7h Sunshine 0.1 hrs.
	Howden	7h Max 56 Sun: 3.9
	Shoeburyness	7h Sun: 1.9
18th	Baldonnel	13h Bar 1023.2 Wind WNW
	Cranwell	13h High Cloud Cu St 1
	Baldonnel	7h Cloud St Cu 10
	Blacksod	7h Min 41
	Manchester	7h " 29
	Calshot	7h Sunshine 1.5
19th	"	18h Sea 2
	Howden	18h Barometer 1028.5
	Calshot	1h Humidity 85
	Lympne	1h Cloud Height 1250
	Cranwell	1h Wind ENE
	Felixstowe	1h Temp 40
	Cranwell	7h Bar 1029.8
	Donaghadee	7h Wind S
	Eskdalemuir	7h Sunshine 0.6 hrs
20th	Lympne.	13h Temp 41 Hum 75
	Calshot	1h " 38
	Lympne.	1h " 35
	Howden	7h Cloud Strus. 10
	Malin Head	18h Bar 1026.2
	Donaghadee	7h Min 41
	Dungeness	7h Max 44
	Lympne.	7-13h Weather 0
21st	Holyhead	18h. Wind Dir. N.
	Wick	7h Temp. 38.
22nd	Renfrew	18h. Weather b3f.
	Calshot	18h Wind Force 5.
	Howden	18h Wind Force 5.
	Lympne	7h. Humidity 85.
	Benson	7h. Bar. 1019.7
	Valencia	Min. on Grass 43.
	Calshot	Past Weather. 18h-51h b2f. 1W-21h. b2f. b3f
	Aberdeen	Past Weather 7h. to 13h. 02f. 03f.
	Howden	Sunshine 6.6.
	Cranwell	Min. 25

Report for	STATION.	CORRECTION.
22nd	Croydon	Past Weather 7h to 13h. b3fx 2f.
23rd	Manchester	7h. Wind Dir. NNE
	Howden	7h. Bar. 1022.2.
	Malin Head	Max. 49.
	Donaghadee	Min. 44
	Clacton	Min. 42.
	Manchester	Past Weather 1h. to 7h. bc or r c b c
	Calshot	Past Weather 18h. to 1h. b bc o f
	Howden.	Min. on Grass. 24.
24th	Manchester	13h. Temp. 56.
	Calshot	1h. Weather b2f. Upper Cloud. Ci Cu.
	Howden	1h. Bar. 1023.4
	Renfrew	7h. Low Cloud. Cu. 10.
	Castlebay	7h. Temp 42.
	Blacksod.	7h. Rainfall 0.2.
	Clacton	Max. 48.
	Shoeburyness	Min. on Grass. 26.
	Croydon.	Past Weather 18h. to 1h. bcc2f c o 02f o w
25th	Falmouth.	13h. Low Cloud. St. 10.
	Felixstowe	13h. Wind SSE 2.
	Manchester	7h. Bar. 1024.0.
	Birr Castle	18h. Wind S. 1.
	Pembroke	18h. Temp. 48.
	Manchester	Rainfall 18h.-7h. 3.
	Falmouth	Min. 46.
	Calshot	Max. 50. Min. on Grass. 39.
	Howden.	Min 38. Sunshine 3.1.
26th	Howden	13h. Change in 3 hours. +5
	Howden	13h. Cloud. St. 7. A. St. 3.
	Renfrew	1h. Temp. 37
	Eskdalemuir	7h. Visibility 8. Sunshine 5.9
	Stornoway	Sunshine 5.1.
	Blacksod Pt	Rainfall. 4.
	Scilly	Sunshine 6.0.
	Calshot	Past Weather 18h.-1h. o2f t o i f d
	Calshot	Max. 49.
27th	Lympne	13h. Humidity 75.
	Howden	13h. Visibility 6
	Lympne	1h. Temp. 33.
	Croydon.	1h. Temp. 30.
	Calshot	7h. Humidity 85.
	Renfrew	Max. 51. Min. 35.
	Eskdalemuir	Sunshine 3.5.
28th	Falmouth	13h. Wind. ESE 2
	Calshot	13h. Change in 3 hours. -2
	Howden	18h. Wind WSW
	Eskdalemuir	1h. Weather o g i f
	Eskdalemuir	7h. Visibility 5.
	Howden	7h. Humidity 85.
	Blacksod Pt	Min. 48
	Dungeness	Max. 47.
	Tynemouth	18h. Bar. 1034.0.
	Howden	Sunshine 1.1

* The barometric change is expressed in half millibars.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON:

BRITISH SECTION. CORRECTIONS AND ADDITIONS, FEBRUARY 1921.

II.—ADDITIONS.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.

Report for	STATION.	Barom. at M.S.L. mb.	‡ 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 Cloud. Form.	Upper Cloud. Amt. 0-10.	Sea. 0-9.	Summaries for past 24 Hours. Weather. 7h-13h.	13h-18h.	18h-1h.	1h-7h.	Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rainfall. Day. 7h-18h	Rainfall. Night. 18h-7h	Sun. Hours.
																							mm.	mm.	
1st	Renfrew 7h.	1007.2	0	NE	2	03f	39	85	3	2,000	St.Cu	10	-	-	*				01f 03f	43	36	27	-	-	4.7
	Baldonnel 7h.	1002.9	0	-	0	02f	42	85	5	1,250	St	10	-	-	*				c 02f	45	36	32	-	-	2.9
	Howden 7h.	1006.9	+1	NNW	1	c3f	23	97	4	3,000	St	8	-	-	*				3f x.	43	23	18	-	-	1.8
4th	Howden 18h.	1018.4	+4	-	0	0fx	29	97	1	<500	St	10	-	-	*		6-8f								
5th	Baldonnel 7h.	1013.1	+6	SE	3	02f	40	75	4	<500	St	10	-	-	*				02f	45	40	35	-	-	0.0
8th	Baldonnel 7h.	1021.4	0	E	4	01f	41	85	6	1,250	St	9	-	-	*				bc.c0	41	34	28	-	-	0.0
10th	Renfrew 7h.	1044.6	0	-	0	03f	29	97	2	1,250	St	1	A.St	1	*				b.bc3f45fx	48	27	16	-	-	4.1
12th	Baldonnel 1h.	1034.8	-1	N	3	01f	42	85	6	3,000	StCu	10	-	10	*			01f							
16th	Cranwell 7h.	1019.8	+1	WNW	2	c	46	92	8	3,000	StCu	4	A.Cu	4	*				bc c bcc	48	42	32	-	-	0.0
25th	Baldonnel 1h.	1023.5	+3	WNW	3	r₀ 23f	43	92	4	<500	St	10	-	-	*			02f r₀ r₀							
	Baldonnel 7h.	1027.8	+4	SW	1	b	37	92	8	3000	St	1	A.St	2	*				b.or	48	36	30	4	5	0.0
28th	Baldonnel 7h.	1032.1	-3	SW	5	0q	44	75	7	2000	St	10	-	-	*				01fq	50	40	41	-	-	0.6

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Report for	STATION.	Barom. at M.S.L. mb.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather	Barometer. At M.S.L. mb.	‡ Change in 3 hours.	Temperature. Temp. °F.	Temperature. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather	Sea 0-9.	Rainfall. mm.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
		18h. G.M.T.					7h. G.M.T.									24 Hours Ending 7h.						
1st	Malin Head						1001.0	+2	42	+2	NE	4	-	0	3	11	42	39			c	0.0

‡ The barometric change is expressed in half millibars.

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

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