M.O. FORM 2373

AIR MINISTRY.

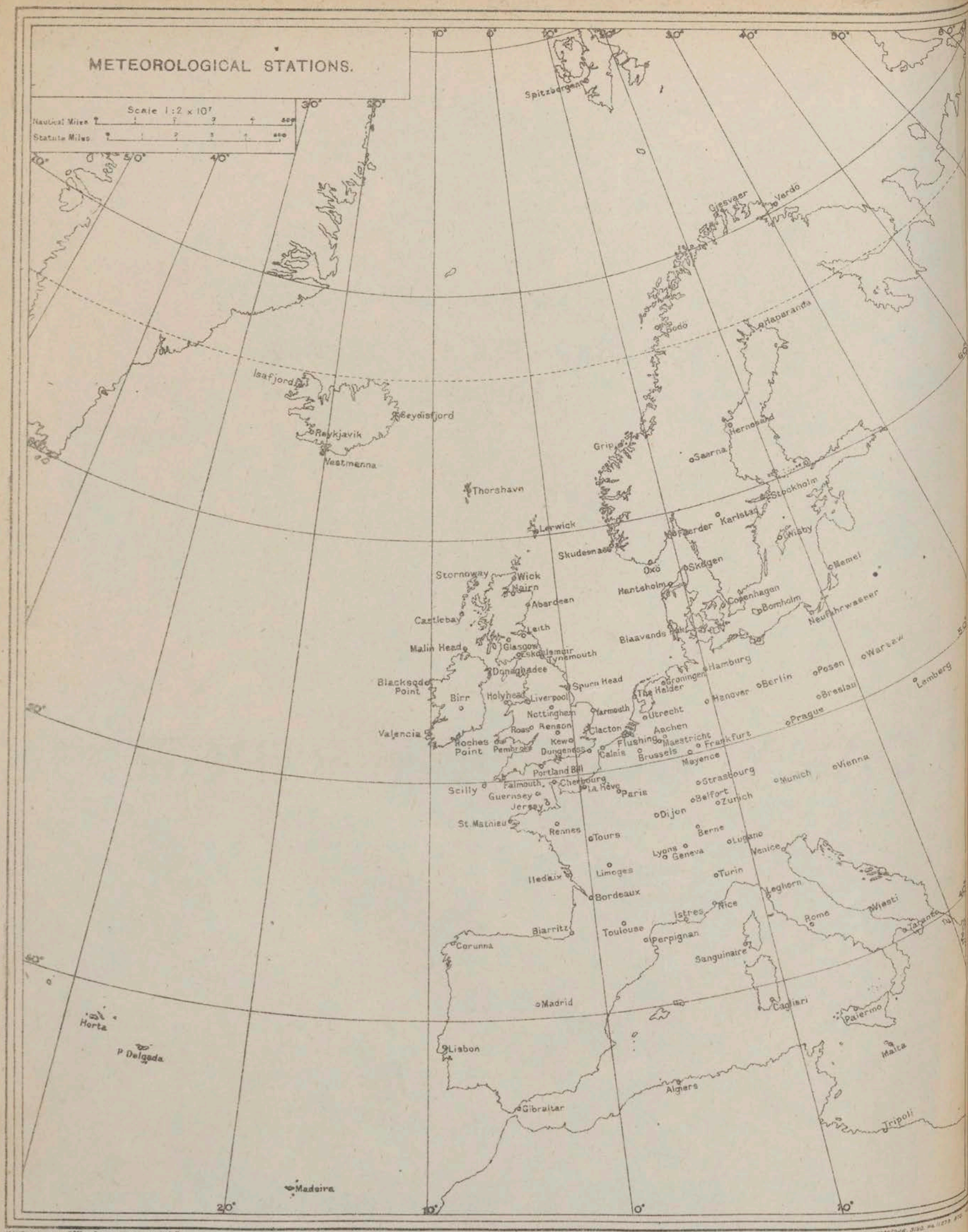
METEOROLOGICAL OFFICE.

LONDON.

DAILY WEATHER REPORTS

1ST JANUARY TO 31ST MARCH. 1921.

; The barometric change is expressed in half millibars.



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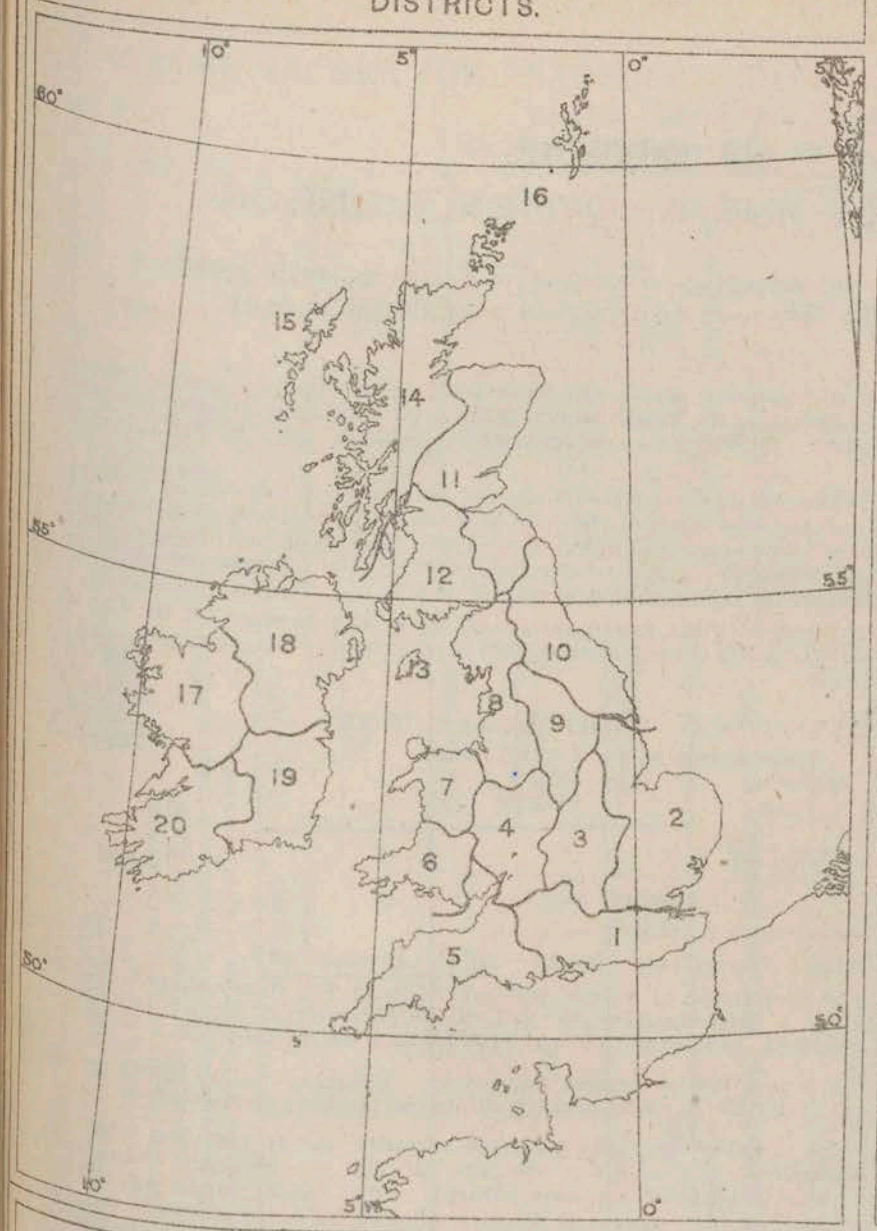
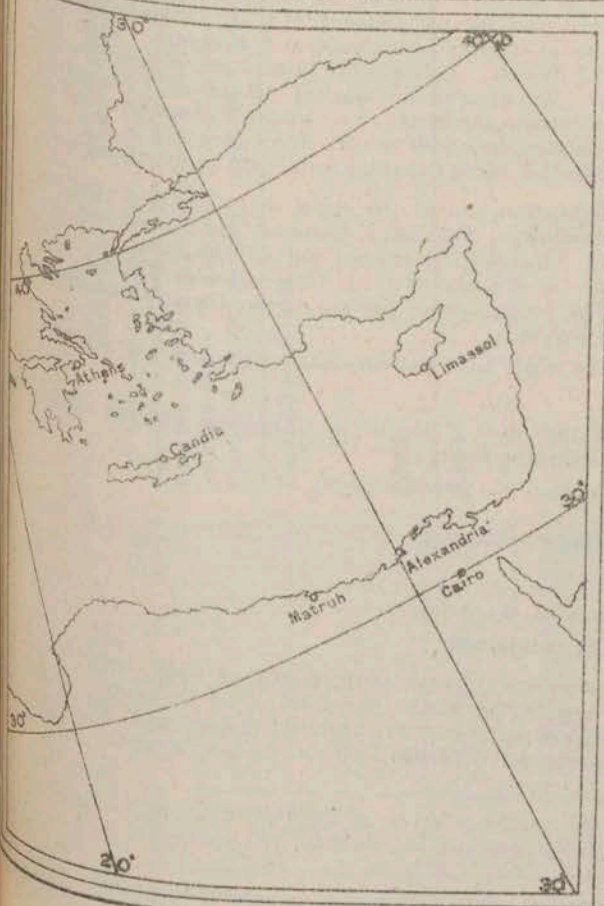
DISTRICTS.



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.

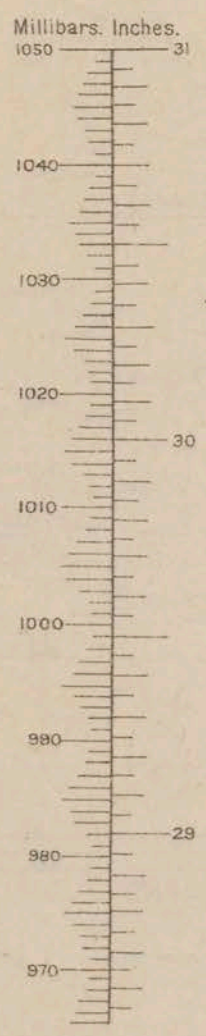
Clear sky	○	Sky ¼ clouded	◔
Sky ½ clouded	◐	Sky ¾ clouded	◕
Overcast sky	◍	Rain falling	●
Snow	✳	Sleet	✳
Fog	≡	Hail	▲
Thunder	⊤	Mist	≡
Lightning	↯	Thunderstorm	⊤↯
Aurora	⌂	Gale	✓
Rime	⚘	Solar halo	⊕
Glazed frost	∽	Lunar halo	⦶
Glazed roads	⚘	Solar corona	⦶
Snow lying	▨	Lunar corona	⦶

* 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



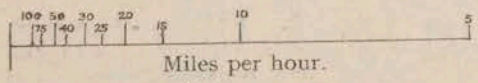
Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on the British Section of the Report and for intervals of 4 millibars on the International Section. Values in millibars may be converted to mercury inches by the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



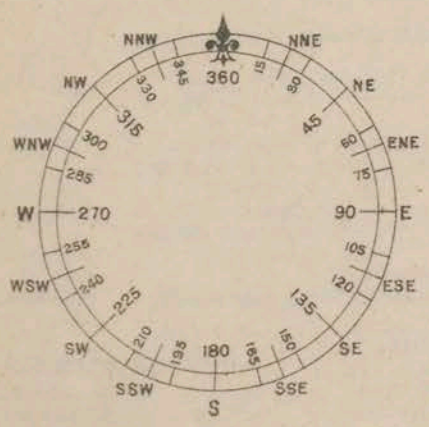
This scale applies under the following conditions :—

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.

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 MARCH 1921.

Showers of snow or sleet fell daily in Scotland during the early part of the month and were also experienced occasionally in a few Eastern districts of England. About the 9th, milder conditions became more general with day maxima about 50° to 60°F and some good sunshine records. By the morning of the 14th a small secondary depression was indicated over the Mouth of the Channel which was accompanied by thunder and lightning in Cornwall and strong Southerly winds or gales in most parts of England as it travelled Northwards to Scotland.

During the last ten days there was considerable range of temperature: local frost occurred at night both on the grass and in the screen 4 ft. above the ground while on Thursday, the 24th, day readings rose above 65°F. At S. Farnborough a maximum of 65° was followed by a minimum of 25° next morning. Conditions remained very favourable in the South on Friday but subsequently became cooler and more changeable with some rain and hail. There was a similar though more accentuated drop in temperature at Easter 1909; in that year Good Friday was considerably warmer in London with over eleven hours sunshine while on Bank Holiday the maximum temperature was as much as 15° lower and there were only about four hours sunshine.

Local thunderstorms occurred in the Southwest towards the close of the month and some snow or sleet fell in Scotland on the 26th and 27th, also in Ireland on the 29th.

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.	20	2	10	7	1	0
5,000		9	0	5	4	0	0
10,000		5	0	1	4	0	0
15,000		1	0	0	1	0	0
2,000	Lympne.	44	5	31	28	0	0
5,000		32	3	12	14	3	0
10,000		4	0	3	1	0	0
15,000		1	0	1	0	0	0
2,000	Eskdalemuir.	16	4	8	4	0	0
5,000		9	2	5	2	0	0
10,000		4	0	3	1	0	0
15,000		3	0	3	0	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	1	0	0	1	10	13	2	3	1	0	0	0	0	1	1	6	11	7	5	0	0	0	0	0	4	8	3	12	4	0	0	0	0	0	2	6	9	12	2	0
Stornoway	1	0	0	0	1	15	9	5	0	0	0	0	0	0	0	8	12	10	1	0	0	0	0	0	0	8	10	12	1	0	0	0	0	0	0	7	16	8	0	0
Renfrew	0	0	0	0	2	6	8	8	7	0	0	0	1	2	0	5	6	14	2	1	0	0	0	1	0	3	7	9	11	0	0	0	0	1	1	2	8	8	11	0
Eskdalemuir	0	0	1	0	3	9	15	3	0	0	0	0	3	1	0	5	14	5	2	1	0	0	0	1	1	7	9	6	7	0	0	0	2	2	1	6	9	4	7	0
Malin Head	0	0	0	0	2	1	3	13	11	1	0	0	0	0	1	2	4	10	12	2	0	0	0	0	0	3	4	10	13	1	0	0	0	0	0	1	7	13	9	1
Blacksod Point	0	0	0	0	2	11	7	9	2	0	0	0	0	2	1	1	12	10	5	0	1	0	0	0	0	3	7	11	8	1	0	0	0	1	0	5	5	14	6	0
Valencia	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	3	0	3	19	6	0	0	0	0	0	0	2	7	11	11	0	0	0	0	0	1	2	4	13	11
Roche's Point	*	*	*	*	*	*	*	*	*	*	0	0	1	0	0	2	3	8	16	1	0	0	0	0	0	0	6	2	20	3	0	0	0	0	0	0	3	4	23	1
Baldonnel	0	0	0	1	3	1	7	9	10	0	0	0	0	0	3	2	2	5	18	1	0	0	0	0	1	1	6	1	21	1	0	0	0	0	0	1	5	5	14	6
Manchester (Alexandra Park)	*	*	*	*	*	*	*	*	*	*	0	0	0	1	3	4	8	2	9	4	0	0	0	0	0	6	8	6	4	7	0	0	0	0	6	10	6	0	5	1
Holyhead	0	0	0	0	0	1	4	5	19	2	0	0	0	0	1	2	2	7	18	1	0	0	0	0	0	0	2	1	27	1	0	0	0	0	0	1	4	9	17	0
Pembroke (St. Ann's Head)	0	0	1	0	0	0	1	5	15	9	0	0	0	0	1	2	1	10	11	6	0	1	1	0	0	1	0	13	10	5	0	0	0	1	0	3	0	14	8	5
Ross-on-Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly	0	0	0	0	0	0	0	8	20	3	0	0	0	0	0	1	4	12	14	0	0	0	0	0	0	1	3	11	13	3	0	0	0	0	0	2	3	10	16	0
Falmouth	0	0	0	0	1	1	3	12	14	0	0	1	0	0	0	2	3	9	15	1	0	0	0	1	0	2	2	8	18	0	0	0	1	1	1	3	5	9	11	0
Cattewater	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	2	8	21	0	0	0	0	0	0	0	1	2	25	3	0	0	0	0	0	0	2	5	22	2
Calshot	0	1	0	1	0	2	2	6	19	0	0	1	0	0	2	0	2	5	20	1	0	0	0	1	1	1	0	3	19	6	0	0	0	0	0	0	8	5	17	1
Lympne	0	0	1	0	1	0	2	5	16	6	0	3	0	0	2	1	0	4	15	6	0	0	0	0	1	1	2	2	15	10	0	1	0	0	0	0	1	7	13	9
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	0	0	0	0	1	2	11	13	4	0	0	0	0	0	3	5	9	11	3	0	0	0	1	0	0	7	5	11	7	0	0	0	0	1	2	11	12	4	1	0
Howden	0	0	0	1	5	12	10	3	0	0	0	0	0	0	3	15	8	5	0	0	0	0	0	0	0	8	9	13	2	1	0	0	0	1	1	8	12	6	2	1
Cranwell	0	0	0	0	1	1	4	14	11	0	0	0	0	0	1	0	8	6	16	0	0	0	0	0	0	0	9	6	15	1	0	0	0	0	2	0	4	7	18	0
Felixstowe	0	0	0	0	1	2	3	9	16	0	0	0	0	0	3	1	4	13	9	1	0	0	0	0	0	1	6	10	14	0	0	0	0	0	0	0	2	14	15	0
Yarmouth	0	0	0	0	9	1	0	3	16	2	0	0	0	0	2	4	1	14	10	0	0	0	0	0	2	3	6	12	8	0	0	0	0	0	5	7	4	11	4	0
Shoeburyness	*	*	*	*	*	*	*	*	*	*	0	0	0	1	0	6	11	13	0	0	0	0	0	0	0	2	4	23	2	0	0	0	0	0	2	2	11	16	0	0
Isle of Grain	*	*	*	*	*	*	*	*	*	*	1	0	0	2	1	1	6	14	6	0	0	0	0	0	0	1	2	7	21	0	0	0	0	0	0	2	2	14	13	0
Benson	*	*	*	*	*	*	*	*	*	*	0	0	1	1	2	0	5	12	10	0	0	0	0	0	0	0	5	10	16	0	0	0	0	0	0	1	10	12	7	1
S. Farnboro'	*	*	*	*	*	*	*	*	*	*	0	1	2	1	1	1	2	6	16	1	0	0	0	0	0	0	0	7	24	0	0	0	0	0	0	1	1	13	16	0
London (Kew Obsy.) ...	*	*	*	*	*	*	*	*	*	*	0	1	0	0	0	6	10	3	11	0	0	0	0	0	0	0	6	5	17	3	0	0	0	0	0	5	12	4	10	0
Croydon	0	0	0	0	0	2	3	12	12	2	0	0	1	0	0	2	4	8	16	0	0	0	0	0	0	2	1	2	26	0	0	0	0	0	0	3	3	10	15	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	23
268·6	24
273·0	32
273·6	33
278·0	41
278·6	42
283·0	50

STATIONS.	Temperature. Number of daily readings within fixed limits. * Maximum. 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 ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leith	0	3	13	15	0	0	1	25	5	57	21	38	6	46	24	25	7	11	*	*	*	*	*	*	*	*	*	*	*	*
Renfrew ...	0	3	20	8	0	1	0	21	9	55	21	36	5	49	24	22	7	10	7	22	0	7	19	1	8	23	0	10	20	1
Eskdalemuir ...	0	4	26	1	0	1	9	17	4	51	31	35	7	45	16	20	7	12	3	24	0	4	25	0	5	25	0	8	22	0
Tynemouth ...	0	2	16	13	0	0	1	21	9	59	24	41	6, 7	49	24	30	7	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	0	0	10	20	1	0	6	20	5	65	24	44	7	50	16	24	30	15	4	21	0	1	28	1	0	29	1	1	29	1
Cranwell ...	0	0	9	20	2	0	5	19	7	63	24	42	7	50	16	28	7	8	4	20	1	2	23	4	4	25	1	3	26	1
Yarmouth ...	0	0	9	21	1	0	4	18	9	66	24	42	7	48	17	30	3, 4, 8	3	*	*	*	*	*	*	*	*	*	*	*	*
Nottingham ...	0	0	9	21	1	0	3	16	12	64	24	42	7	50	16	31	8	10	*	*	*	*	*	*	*	*	*	*	*	*
I. of Grain ...	0	0	6	23	2	0	5	17	9	65	24	45	7	47	17	26	3	15	*	*	*	*	*	*	2	24	0	2	18	0
Benson... ...	0	0	7	21	3	0	6	17	8	64	24	44	7	47	16	24	3	16	*	*	*	*	*	*	*	*	*	*	*	*
London ... (Kew Obsy.)	0	0	5	24	2	0	2	16	13	63	24	44	7	48	16	30	3	12	*	*	*	2	20	0	0	22	3	2	22	1
Croydon ...	0	0	6	23	2	0	2	19	10	64	24	43	7	47	13, 17	30	3	7	9	9	0	9	8	1	4	21	2	10	15	1
Manchester ...	0	1	10	13	1	0	5	15	11	63	24	41	7	50	16	28	7	11	*	*	*	9	16	3	8	20	0	9	19	1
Bidston ...	0	0	17	14	0	0	2	15	14	57	24	42	7	49	24	29	7, 8	5	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead ...	0	1	22	8	0	0	1	9	21	53	21	41	6	48	16	30	7	1	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	0	0	5	26	0	0	0	17	14	59	24, 31	46	7	50	16	33	12	4	*	*	*	*	*	*	*	*	*	*	*	*
Calshot ...	0	0	12	19	0	0	2	17	12	58	25, 31	46	7	48	16	30	3	*	5	8	0	2	20	1	4	22	0	5	22	0
Lympne ...	0	0	17	14	0	0	3	18	10	58	24	45	2, 3, 7	46	17	28	3	*	7	6	0	8	9	1	8	18	2	8	13	1
Dublin (Phœnix Park)	0	0	12	18	1	1	2	21	7	61	24	45	14	48	24	22	7	6	*	*	*	*	*	*	*	*	*	*	*	*
Baldonnel ...	0	1	14	16	0	1	0	19	11	58	24	41	6	48	16, 24	20	7	10	6	16	1	8	20	0	7	24	0	15	13	5
Birr Castle ...	0	1	15	15	0	1	2	17	11	56	24	41	6	48	16, 24	23	7	12	*	*	*	*	*	*	*	*	*	*	*	*
Valencia ...	0	0	16	15	0	0	1	8	22	55	15	44	13	50	24	29	7	2	*	*	*	6	24	1	9	22	0	8	23	0

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	1,770	36	37	8	40	4	41	2	41	13
850	4,650	27	27	8	30	4	27	2	32	13
750	7,840	19	20	8	–	–	24	2	24	12
650	11,480	8	10	8	–	–	–	–	13	11
550	16,500	-4	-3	5	–	–	–	–	-1	10

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	0	6	6	12	6	1	0	0
Eskdalemuir ...	0	0	4	6	1	12	3	5	0
Valencia ...	0	0	2	7	13	4	0	0	0
Falmouth ...	0	0	1	10	10	6	3	1	0
Aberdeen ...	0	0	1	6	8	5	6	5	0
Leith	0	0	2	6	4	11	7	1	*
Benson ...	*	*	*	*	*	*	*	*	0
London ... (Kew Obsy.)	0	0	6	7	12	9	3	0	0

* Since March 1st 1921 the readings used have been the maximum for the period 7h.–18h. and the minimum for the period 18h.–7h. Previously the period was 7h.–7h.

RAINFALL, HUMIDITY AND LOW CLOUD, MARCH, 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 ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leith	*	*	*	*	*	*	*	*	*	*	*	10	12	5	3	1	0	713	+121	62	+18	0	2
Renfrew ...	6	16	3	5	1	9·6	20	*	*	82	*	7	4	10	8	2	0	*	*	?143	*	0	2
Eskdalemuir ...	10	8	8	5	0	8·0	20	1117	*	83	*	3	0	11	13	2	2	1639	*	224	*	0	6
Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	16	10	5	0	0	0	634	+13	18	-28	0	2
Howden ...	4	12	9	4	2	9·6	10	1165	*	101	*	17	7	6	1	0	0	459	*	27	*	0	1
Cranwell ...	2	12	8	6	3	10·0	10, 24	1423	*	130	*	15	10	6	0	0	0	531	*	20	*	1	3
Yarmouth ...	3	4	9	10	5	10·9	25	1713	*	172	*	17	8	5	1	0	0	507	-115	25	-19	1	3
Nottingham ...	3	16	6	3	3	10·0	10	1059	-266	101	-4	14	8	9	0	0	0	574	-24	25	-17	0	0
I. of Grain ...	1	9	9	9	3	10·4	24	*	*	154	*	21	5	4	1	0	0	*	*	22	*	1	0
Benson	*	*	*	*	*	*	*	*	*	*	*	18	4	9	0	0	0	581	*	21	*	0	0
London (Kew Obsy.) ...	3	10	11	4	3	9·7	18	1260	-215	124	+19	18	6	5	2	0	0	596	-10	34	-9	1	0
Croydon ...	*	*	*	*	*	*	*	*	*	*	*	18	3	7	3	0	0	*	*	35	*	0	0
Manchester ...	*	*	*	*	*	*	*	*	*	*	*	10	7	10	4	0	0	*	*	61	*	0	0
Bidston ...	7	13	6	4	1	10·6	24	1223	*	88	*	14	9	7	1	0	0	747	+38	35	-13	1	0
Holyhead ...	6	?13	7	5	0	8·1	7	*	*	*	*	5	10	8	8	0	0	1159	+271	95	+28	0	0
Falmouth ...	2	14	7	4	4	11·3	24	1505	-254	122	-16	7	6	13	5	0	0	1072	-35	85	-3	1	1
Calshot... ...	1	12	5	8	5	11·4	24	1580	*	146	*	18	5	8	0	0	0	620	*	24	*	1	0
Lympne ...	3	10	8	6	4	11·4	24	1680	*	149	*	*	*	*	*	*	*	?647	*	?31	*	0	0
Dublin ... ... (Phœnix Park)	7	10	5	9	0	8·5	17	1292	-215	99	-24	10	7	11	2	1	0	802	+97	65	+15	0	1
Baldonnel ...	6	11	5	9	0	9·0	17	1156	*	104	*	7	8	12	3	1	0	810	*	73	*	0	2
Birr Castle ...	3	18	4	6	0	9·0	2	1133	-210	84	-26	5	13	9	3	1	0	865	+36	78	+17	2	1
Valencia ...	5	14	8	4	0	8·4	11	1158	-287	82	-41	1	7	11	10	1	1	1599	+185	164	+49	1	1

TELEGRAPHIC CODE.

Figure	Distance of Visibility
0	less than 55 yards
1	" " 220 "
2	" " 550 "
3	" " 1100 "
4	" " 12 miles
5	" " 25 "
6	" " 43 "
7	" " 75 "
8	beyond 136 "
9	exceptional.

REMARKS ON CHART OF ISOPLETHS FOR MARCH 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.

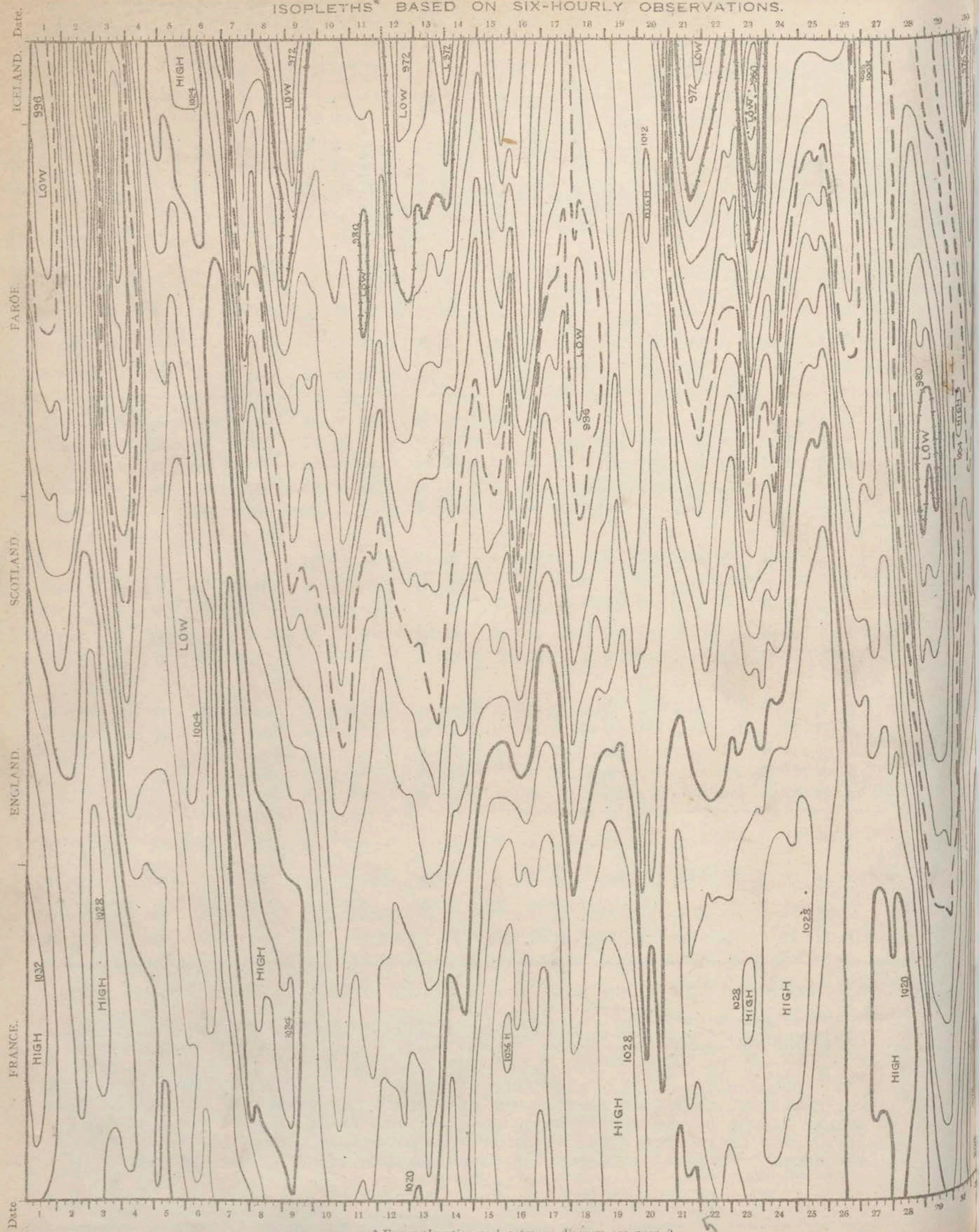
Depressions in the neighbourhood of the British Isles generally passed northward of the United Kingdom but on the 5th the centre of the main system passed across our islands causing considerable falls of snow and sleet in Scotland. There were numerous minor irregularities, though conditions in the south of England were not infrequently influenced by the high pressure over France.

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

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

PRESSURE: ICELAND TO GULF OF LYONS MARCH 192

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. B21,649 TUESDAY 1ST MARCH 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 28th Feb														**18H. G.M.T. of 28th Feb.**													
Renfrew	1024.1	0	SW	4	or2of	47	97	5	750	Nb	10	-	10	*	1023.0	-1	SW	4	or_o	47	97	6	750	Nb	10	-	10	*
Eskdalemuir	1026.7	-1	SSW	4	od_o m	43	92	4	2,000	Nb	10	-	10	*	1025.3	-1	SSW	5	or_o m	44	97	4	2,000	Nb	10	-	10	*
Valencia (Cahirc'n)	1033.3	-2	SW	4	o	49	78	8	3,000	St.Cu	10	-	10	4	1030.8	-3	SSW	4	o	48	75	8	2,000	St.Cu	10	-	10	4
Baldonnel	1031.4	-1	SW	5	oq	48	85	8	2,000	St	8	A.St	9	*	1029.7	-2	SW	4	o	47	75	8	3,000	St.Cu	9	A.St	10	*
Manchester (Alex Pk)	1032.2	-1	W	4	oif	48	75	6	3,000	St	10	-	10	*	1030.6	-1	WSW	3	o2f	47	75	4	2,000	St.Cu	10	-	10	*
Ross on Wye	1034.3	-1	WNW	4	ov	49	65	9	3,000	St.Cu	8	Ci	9	*	1032.8	-2	WNW	3	o	46	75	8	3,000	St.Cu	9	A.Cu	10	*
Falmouth	1037.0	-2	S	2	bc	54	65	7	-	St.Cu	4	-	4	*	1035.0	-1	SW	2	b2f	46	85	5	-	St.Cu	1	A.St	1	*
Calshot (Hants)	1036.3	-2	WNW	4	o	47	75	8	3,000	St.Cu	10	-	10	2	1034.5	-2	WSW	3	o	45	85	8	3,000	St.Cu	10	-	10	2
Lympne (Folkestone)	1034.8	-1	W	4	o	44	75	8	2,000	St.Cu	10	-	10	*	1033.7	-1	W	4	o	43	75	8	2,000	St.Cu	10	-	10	*
Aberdeen	1019.1	-1	SW	4	cif	57	65	7	4,200	St.Cu	7	-	7	2	1020.4	+3	ESE	1	or_o	46	97	5	2,000	Nb	10	-	10	2
Howden	1029.4	-2	W	6	oq	48	75	5	3,000	St.Cu	7	A.St	9	*	1029.4	-2	W	5	oq	47	75	6	3,000	St.Cu	9	-	9	*
Cranwell (Lincs)	1031.2	-1	W	5	oif	49	75	6	3,000	St.Cu	5	Ci	9	*	1030.3	0	W	4	c	45	85	7	3,000	St.Cu	5	Ci	2	*
Felixstowe	1034.0	-2	WNW	4	o2	47	65	6	2,000	St.Cu	10	-	10	2	1033.2	0	WNW	4	o2	46	75	6	3,000	St.Cu	10	-	10	*
Shoeburyness	1034.5	-2	NW	3	oif	46	75	6	2,000	St	10	-	10	*	1033.3	-1	NW	1	oif	45	85	6	2,000	St.Cu	9	-	9	*
Benson	1034.1	-1	W	3	o	46	65	6	-	St.Cu	10	-	10	*	1032.6	-1	SW	1	o	45	75	6	-	St.Cu	10	-	10	*
S. Farnborough	1035.3	-2	W	3	o	46	75	7	3,000	St	10	-	10	*	1033.7	-2	WSW	3	o	45	75	7	3,000	St.Cu	9	A.St	10	*
London (Kew Obsy.)	1034.9	-3	W	3	o2f	47	65	5	4,200	St.Cu	7	A.St	10	*	1033.5	-2	WSW	3	o2f	46	75	5	4,200	St.Cu	10	-	10	*
Croydon	1035.5	-1	WSW	3	oif	46	75	6	2,000	St.Cu	10	-	10	*	1033.9	-2	WSW	3	oif	45	75	6	3,000	St.Cu	10	-	10	*
	1H. G.M.T. of 1st March														**7H. G.M.T. of 1st March**													
Renfrew	1021.8	-1	SW	5	co/r	47	92	6	1500	St	10	-	10	*	1017.2	-4	SW	5	od-	45	85	5	1500	Nb	10	-	10	*
Eskdalemuir	1023.2	-2	SW	5	δδ	43	97	4	1500	Nb	10	-	10	*	1019.5	-4	SW	6	od_od_o	41	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1026.1	-4	SSW	2	oc	47	*	*	*	*	*	*	*	3	1023.0	-3	SSW	4	co	48	75	8	4000	St.Cu	9	-	9	4
Baldonnel	1026.5	-3	S	5	co	45	65	7	1500	St	10	-	10	*	1023.4	-2	SSW	5	co	44	75	7	1500	St.Cu	8	-	10	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.7	-3	SSW	3	co	44	85	6	1500	St.Cu	10	-	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.4	-2	SSW	1	co	40	92	6	1500	Nb	1	a.St	9	*
Falmouth	1031.8	-3	SW	2	bc	33	92	8	75	St	10	-	10	*	1029.0	-3	S	1	bc+	37	97	8	-	-	-	a.St	3	*
Calshot (Hants)	1032.4	-3	-	0	co	40	97	6	4000	St.Cu	7	-	7	?	1029.9	-3	-	0	co+	38	97	4	4000	St.Cu	4	a.Cu	10	*
Lympne (Folkestone)	1031.0	-2	W	2	co	39	97	7	1500	St.Cu	9	-	9	*	1030.3	-2	W	3	fb-	38	97	1	-	-	-	a.St	7	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.8	-3	SW	5	bc/r	47	75	8	4000	St.Cu	3	Ci	4	3
Howden	1027.3	-2	SW	3	co+	43	85	5	4000	St.Cu	7	a.St	10	*	1024.7	-2	S	5	co	42	85	5	2500	St.Cu	7	a.St	10	*
Cranwell (Lincs)	1029.1	-2	WSW	3	co+	41	92	6	2500	St.Cu	6	-	6	*	1028.0	-1	SW	3	co-	42	92	8	2500	St.Cu	8	a.St	9	*
Felixstowe	1031.5	-2	SW	2	co-	43	85	7	4000	St.Cu	7	-	7	?	1030.0	-1	SW	3	bc	40	85	6	4000	St.Cu	1	a.Cu	4	1
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.0	-1	WSW	1	fb-	38	55	6	7250	-	-	Ci	5	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.4	-2	SW	2	co	36	92	6	-	St.Cu	5	a.Cu	7	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.9	-2	S	1	fo+	35	97	2	75	St	10	-	-	*
London (M.O. at 1H.)	1032.4	?	*	*	*	40	*	*	*	*	*	*	*	*	1029.8	-1	-	0	~~co~~ cmx	36	97	5	-	-	-	Ci.Cu	7	*
Croydon	1032.1	-3	SW	2	co-	41	85	7	2500	St.Cu	2	a.St	7	*	1030.2	-3	SSW	2	ffo	35	97	7	-	-	-	a.St	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.	‡ 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. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine* Hours
	18H. G.M.T. of 28th Feb					**7H. G.M.T. of 1st March**									**24 HOURS ENDED 7H. 1st March**							**28th Feb**
Lerwick	1014.3	47	W	4	omoq	1008.6	-5	42	-5	S	4	-	bc+	3	4		48	41	bcq	om pq	b or bc p	*
Stornoway	1018.9	38	W	3	c	1005.0	-5	44	-4	WSW	6	-	T_o T_o	5	3		48	41	bcpq	cp.c	r or d.	4.0
Castlebay (Barra Is)	1021.3	46	W	4	o	1011.3	-3	46	-3	WSW	5	-	PR	6	1		49	45	d.op	op.co.	p	0.6
Malin Head	1022.6	47	SW	4	omd	1014.6	-1	46	-1	S	3	-	co-	4	2		48	45	omd	omd	T or d. oo	0.0
Blacksod Point	1024.8	48	SW	6	omd	1016.8	-7	48	-1	S	4	-	bc+	*	0.2		50	48	om	omd	T or d. c	*
Roche's Point	1032.7	48	SW	3	o	1025.4	-3	47	+2	SW	3	-	co	0	trace		50	46	q	o	oo	*
Birr Castle	1029.4	48	SW	3	c	1023.0	*	44	-1	SW	3	-	co	*	-		?	43	To	Tc	c	0.0
Donaghadee	1026.1	49	WSW	3	omq	1021.7	-4	45	-1	WSW	4	-	co	3	-		52	41	cmq	cmq	c	*
Liverpool (Bidston)	1029.8	46	WSW	3	b	1024.5	-3	44	0	SW	3	-	co	1	-		50	43	o	o	c	0.1
Holyhead	1030.0	47	SW	4	o	1023.8	-3	47	+2	SW	4	-	co	1	-		48	44	o	o	o.o. oo.	0.0
Pembroke (St. Ann's Head)	1033.6	47	WSW	4	ov	1027.4	-2	47	+1	SW	3	-	cov	3	?		48	45	ov	ov	oo	?
Scilly (St. Mary's)	1034.8	47	SSW	1	b	1028.6	-3	46	+2	SSW	2	-	co+	4	-		53	44	cm.bc	bcm b	b or bc	9.1
Jersey (St. Aubin)	1036.0	46	SE	3	b	1030.3	-1	34	+1	SE	1	-	bc	1	?		51	34	b	b	b or bc	10.3
Portland Bill	1035.0	47	WSW	3	bc	1029.4	-3	46	+2	SW	3	-	bc	3	?		49	44	bc	bc	b or bc	*
Dungeness	1033.6	45	WSW	4	c	1030.2	-1	42	+3	WSW	2	SW	bc	2	-		48	39	c	c.o.c	c.o.c.bc	*
Wick	1018.0	41	WSW	2	cm	1008.7	-7	43	-4	SW	3	-	co-	3	0.3		50	38	oqop	o.cm	c	*
Nairn	1019.4	46	-	0	c	1010.4	*	46	-1	W	1	-	δgo	1	1		53	40	cb bcq	bc e.g	cδg	1.1
Leith	1021.4	48	WSW	5	c	1016.2	-2	45	0	SW	4	-	o	3	0.1		50	45	oq q/o	cuq.o.c	cuq/qo	*
Tynemouth	1025.1	48	W	4	cmq	1020.7	-2	46	0	WSW	3	-	co	0	?		49	44	cmq	cmq	c for m	*
Spurn Head	1028.9	45	W	3	bm	1025.2	-2	43	-1	SW	4	-	~~co~~ bc+	3	-		48	37	c	cm	bm b or bc	*
Yarmouth (Gorleston)	1030.5	46	WNW	3	cif	1027.7	-1	38	-3	WSW	3	-	co+	1	-		49	37	c cz	cz	b or bc.c	0.5
Clacton-on-Sea	1032.9	46	W	4	o	1029.6	-1	40	-1	W	3	-	co	1	-		49	39	og	o	c	0.2
Nottingham	1030.7	46	W	2	c	1026.6	*	42	-1	SW	2	-	co+	*	-		50	40	o.c	c.o	c	3.0

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

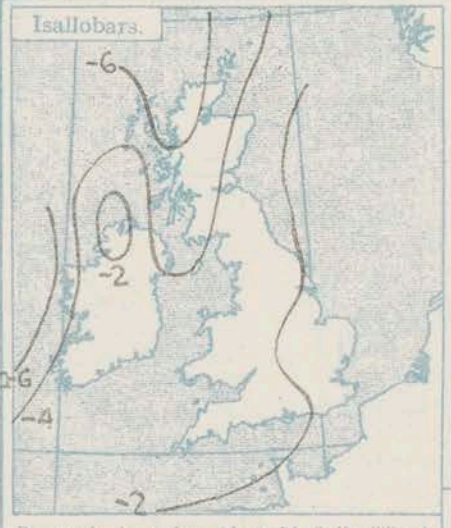
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 1. 3. 21.

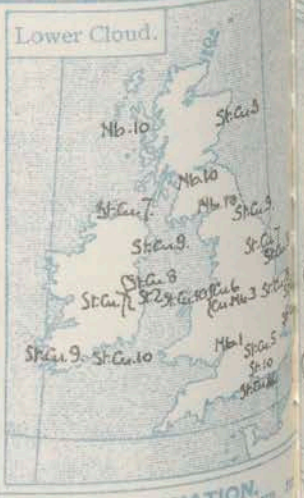
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Mainly dull, local fog.	Poor.	V. Smooth
2. E. England	Fair.	Indiff.	" "
3. E. Midlands	Dull.	Good.	-
4. W. Midlands	Dull.	Fair.	-
5. S.W. England	Fine to dull, some fog.	Fair.	Mod.
6. South Wales	Dull.	Exclt.	Slight
7. North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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	28th	0808	46	47
3	28th	1000	47	48
2	1st	0220	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 ½ clouded. overcast sky. sky ¼ clouded. sky ¾ clouded. rain falling. snow. sleet. hail. fog. mist. T thunder. R thunderstorm.

SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

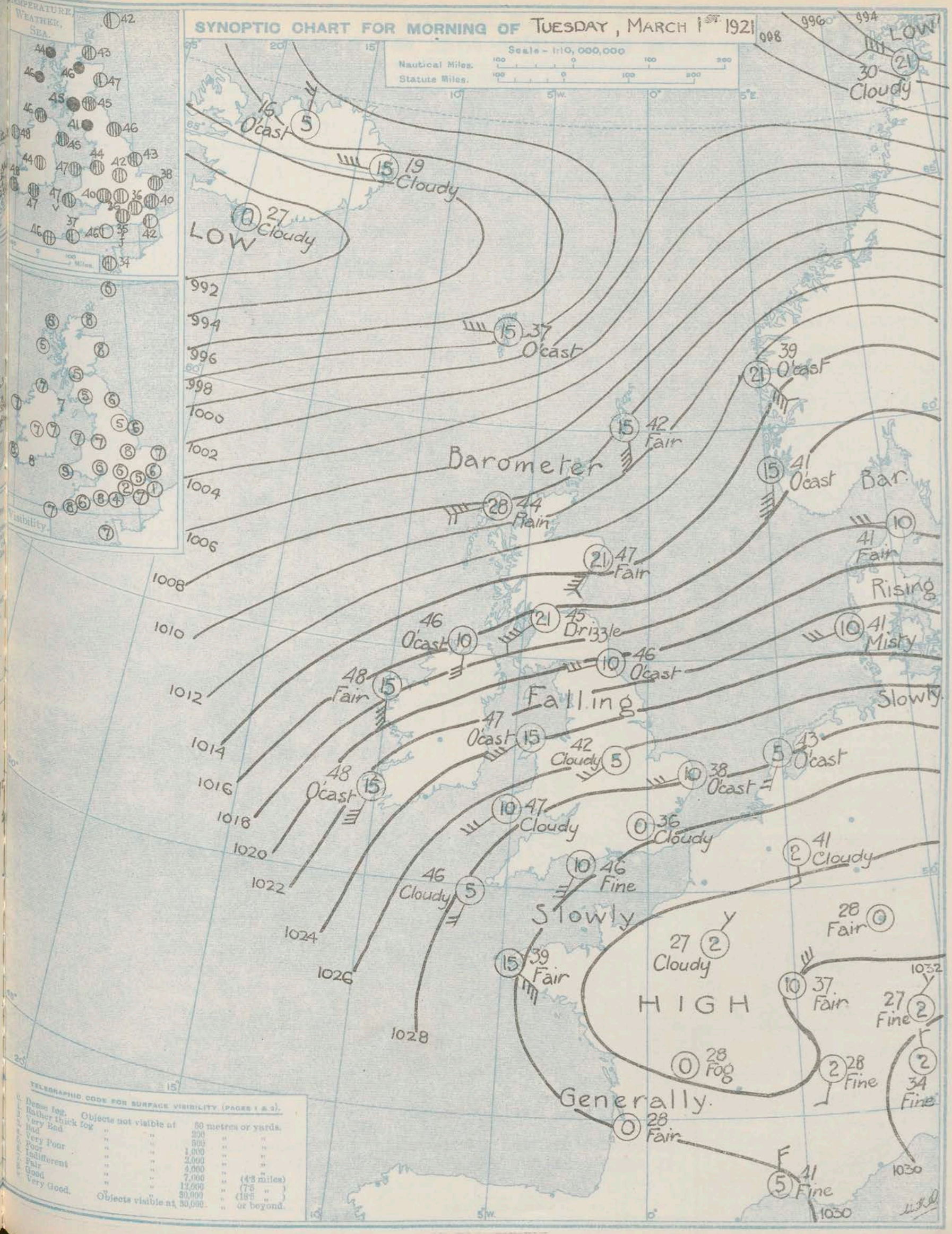
The South-Westerly wind current will maintain a rather high temperature and weather will continue unsettled in the North-Western districts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday, 1st March 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind South-West, light or moderate; cloudy, perhaps showers later; visibility fair, some morning mist; rather mild.	South-Westerly or Westerly winds; mild, unsettled in the North.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind South-West, fresh or strong; cloudy; local rain or drizzle; visibility fair; rather mild.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind South-West to West, fresh or strong; dull, rain at times; visibility fair; mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As for 6 - 10.	

E/15.

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 TUESDAY, MARCH 1ST 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility
LOW
Cloudy
O'cast
Barometer
Falling
Slowly
Generally
Rising
Bar.
Misty
Drizzle
Fair
Fine
Fog
HIGH
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 12,000 " (7·5 ")
Good " " 20,000 " (18·5 ")
Very Good. " Objects visible at 50,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 60. (Tuesday 1st MARCH)

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 27.2.21	Rainfall. Day. 9h-18h. 28.2.21	Sunshine. Sunrise to Sunset. 28.2.21
Scotland.	Banff	bc o	r o c	53	42	-	1	1.0
England, N.E.	Harrogate	c	c	45	32	-	-	0.3
	Skegness	o c	o c bc	50	39	-	-	1.4
England, E.	Lowestoft ...	-	c o c	53	39	-	-	1.0
	Felixstowe	o2	o g	47	40	-	-	0.2
	Southend-on-Sea...	bc c o	o	46	38	-	-	0.6
England, S.E.	Tunbridge Wells	o	o	46	32	-	-	0.0
	Margate	c o	o	48	34	-	-	0.7
	Ramsgate	*	*	47	37	-	-	1.4
	Folkestone	o c	c	48	36	-	-	1.1
	Hastings	bc o	o	47	35	Trace	-	1.3
	Eastbourne... ...	bc c o	o	48	38	-	-	1.6
	Brighton	bc	bc o	47	36	-	-	1.5
	Worthing	bc o	o	48	32	-	-	0.9
	Portsmouth (S'thsea)	*	*	49	36	-	-	0.8
	Bournemouth ...	*	*	49	34	-	-	1.2

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 27.2.21	Rainfall. Day. 9h-17h. 28.2.21	Sunshine. Sunrise to Sunset. 28.2.21
England, N.W.	Blackpool	o	o	47	44	-	-	0.6
	Southport	o	o	47	44	-	-	0.0
Midlands.	Leamington Spa...	o	c b	49	38	-	-	0.5
	Bath	o	o	48	36	-	-	0.0
Wales.	Rhyl	c	c	51	44	-	-	0.2
	Colwyn Bay ...	*	*	49	44	-	-	0.7
	Llandudno	*	*	48	44	-	-	0.0
	Aberystwyth ...	o c	c o	46	44	-	-	0.0
England, S.W.	Weymouth	c bc	bc c b	53	32	-	-	7.4
	Torquay	o b2	b	54	36	-	-	8.2
	Paignton	bc b	b	55	34	-	-	8.4
	Penzance	bc	bc c	53	36	-	-	5.2
	Bude	c bc c	bc c bc	52	35	-	-	4.6
	Ilfracombe	o	o c	49	44	-	-	0.1

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h.	Weather. 18h-18h.	Weather. 18h-18h.	Weather. 18h-7h.	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall† Day. 7h-18h.	Rainfall† Night. 18h-7h.	Sun. Hours.
									mm.	
Renfrew ...	[illegible]	o2 r to f	r or δ	r or δ	49	45	43	7	2	0.0
Eskdalemuir	[illegible]	d d r r	r or δ	r or δ	45	40	40	2	2	0.0
Valencia (Cahir'ty) ...	o	o	oc.	oo	50	45	41	-	-	0.0
Baldonnel	c o r	o2	oo	c	49	43	39	-	-	0.7
Manchester (Alex Pk)	o1 o1f	o2f	oo	oo	50	43	41	-	-	*
Ross on Wye... ...	bc c o r	o c o r o	c	c	49	39	32	-	-	1.1
Falmouth	b bc	b b2 1f	b or bc	b or bc	55	34	28	-	-	7.9
Calshot (Fawley)... ...	o	o	c	f o r m	48	37	29	-	-	0.2
Lympne (Folkestone) ...	c o 1f	o	oo	f	45	36	?	-	-	1.2
Aberdeen	o1f 1f	2f f2	b or bc	b or bc	59	43	38	1	0.5	3.5
Howden	o2	g c o	b or bc.	oo	50	40	34	-	-	8.1
Cranwell (Lincs)	c o	c o b c c	b or bc	c	50	40	38	-	-	5.3
Felixstowe	o1f	o2	f o r m	b or bc	47	39	36	-	-	0.0
Shoeburyness	c. o2f	o1f	c	c	47	37	33		trace	0.9
Benson	o	o	c	c	48	33	26	-	-	*
S. Farnborough ...	o	o	c	c o r m o c	47	32	27	-	-	0.1
London (Kew Obsy.) ...	w o2f	o1f o2f	f o r m		47	36	25	-	-	0.1
Croydon	o1f o2f	o1f o	oo	c	47	35	33	-	-	*

WEATHER. (p.1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; bq = blue squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; c9 = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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- 1·3
2	4- 7	1·6- 3·1
3	8-12	3·6- 5·4
4	13-18	5·8- 8·0
5	19-24	8·5-10·7
6	25-31	11·2-13·9
7	32-38	14·3-17·1
8	39-46	17·2-20·7
9	47-54	20·8-24·1
10	55-63	24·5-28·4
11	64-75	28·5-33·5
12	Above 75	33·6 or above

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. 1.3.21							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o c	c	47	34	25	-	0.0	71	90
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	48	35	30	-	0.0	68	84
Regent's Pk (Botanical Gdns)	*	*	*	*	*	*	*	0.0	*	*
Camden Sq. (British Rainfall)	o	c.	*	48	35	29	-	*	66	84
Kensington Palace	o	o c	*	49	35	28	-	*	69 (18h)	87
Hampstead Observatory ...	*	*	*	45	36	29	-	0.0	*	89

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.

1st AND 2ND MARCH ..... 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.43 / 6.40	12.8 / 12.5	5.39 / 5.37
Greenwich	6.41 / 6.40	12.13 / 12.12	5.37 / 5.38
Wick ...	7.11 / 7.8	12.25 / 12.24	5.37 / 5.41
Valencia ...	7.31 / 7.28	12.54 / 12.53	6.17 / 6.18

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

Exposure from ....13....h. 45..m.
to ....5....h. 45..m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	0	5	21	49
δ Ursae Minoris	11	0	5	9	47

NOTES ON THE WEATHER OF YESTERDAY.

The day was fine in the South, Scilly having 9 hours and Jersey 10 hours of bright sunshine. Some rain fell in the extreme North and North-West. Temperature failed to reach 50° at many stations but rose to 59° at Aberdeen.

* 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. 2650 WEDNESDAY 2ND MARCH 1921.

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

Columns: 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 | Total Amt. 0-10 | Sea 0-9

13H. G.M.T. 1ST

Stations	Barom.	Change	Direc.	Force	Weather	Temp.	Hum.	Vis.	Height	Low Form	Low Amt.	Upper Form	Total	Sea
Renfrew	1012.4	-2	SSW	6	r̥+	48	75	6	1500	St	7	A.	9	
Eskdalemuir	1016.7	-3	SW	6	c.o	44	60	7	2500	St	9	A.–	10	*
Valencia (Cahirc'n)	1021.5	-2	S	4	co-	50	85	8	1500	Cu	7	-	7	*
Baldonnel	1020.3	-3	SW	6	co	49	85	7	1200	St Cu	9	.	9	*
Manchester (A.D.R.)	1023.6	-2	SSW	4	co	48	75	6	450	St Cu	10	.	10	*
Ross on Wye	1025.9	-3	WSW	3	co-	49	75	7	4,000	Cu	2	Ci St	8	*
Falmouth	1027.0	-3	SW	3	bc-	52	75	7	-	St Cu	3	Ci	5	*
Calshot (Hants)*	1028.1	-4	SSW	3	co/f	50	75	8	4,000	Cu	2	Ci St	6	*
Lympne (Folkestone)	1028.7	-3	SW	4	co/f	46	85	7	1500	St	7	Ci	10	*
Aberdeen	1010.4	-3	SW	4	bc	48	75	8	2500	Cu	4	.	4	*
Howden	1022.9	-2	SW	5	co+	46	75	6	4000	St	10	.	.	*
Cranwell (Lincs)	1025.1	-3	WSW	4	co	47	75	7	1500	St	6	A St	10	*
Felixstowe	1028.1	-3	SW	4	co-	48	75	6	2500	Cu	4	A St	8	*
Shoeburyness	1024.8	-3	SW	3	ffb	49	75	6	2500	St	1	Ci St	7	*
Benson	1026.0	-3	SW	3	c	49	85	7	-	St Cu	4	Ci	7	*
S. Farnborough	1027.3	-3	SSW	2	co ⊕	52	65	7	-	-	.	Ci St	7	*
London (Kew Obsy.)	1027.3	-5	SW	3	co ⊕	50	75	6	-	-	.	Ci	8	*
Croydon	1024.7	-2	SW	4	co ⊕	50	65	8	-	.	.	Ci St	10	*

18H. G.M.T. OF 1ST

Stations	Barom.	Change	Direc.	Force	Weather	Temp.	Hum.	Vis.	Height	Low Form	Low Amt.	Upper Form	Total	Sea
Renfrew	1012.5	+2	WSW	4	r-	43	85	7	1500	Nb	10	.	10	*
Eskdalemuir	1013.0	-3	SSW	6	d̥	43	92	6	1500	St	10	-	10	
Valencia (Cahirc'n)	1022.3	+3	WNW	4	o	45	85	8	1500	St Cu	10	-	10	4
Baldonnel	1017.7	-2	SW	5	o	47	85	8	1,500	St Cu	10	-	10	*
Manchester (A.D.R.)	1020.5	-3	SSW	4	o	47	85	5	1,500	St Cu	10	-	10	*
Ross on Wye	1023.0	-3	SW	4	o	46	75	7	4,000	Cu Nb	1	Ci	9	*
Falmouth	1024.7	-2	SW	1	b	48	65	6	-	-	-	A St	1	*
Calshot (Hants)*	1025.6	-2	SW	3	bc	45	85	7	-	.	.	Ci Cu	5	0
Lympne (Folkestone)	1025.8	-2	W	3	bc-	42	42	7	-	.	.	Ci St	5	*
Aberdeen	1008.7	-1	SW	3	c/r	46	85	7	1,500	St Cu	8	-	8	2
Howden	1019.6	-2	SSW	4	o	47	75	5	2500	St Cu	6	A St	9	*
Cranwell (Lincs)	1022.7	-4	SW	4	o	44	85	7	4,000	Cu	1	A St	10	*
Felixstowe	1020.0	-3	SSW	2	bc-	45	86	6	-	-	-	A St	6	1
Shoeburyness	1024.7	-2	WSW	2	bc	44	75	6	1500	St	2	Ci Cu	2	*
Benson	1024.7	-1	SSW	2	b	47	75	7	-	.	.	A St	3	*
S. Farnborough	1020.0	-2	SW	3	c	45	85	7	-	.	.	A Cu	8	*
London (Kew Obsy.)	1024.4	-3	SSW	2	c	47	75	5	4000	St Cu	1	Ci Cu	8	*
Croydon	1025.1	-2	SSW	3	o	44	75	6	-	-	-	A Ci	9	*

1H. G.M.T. OF 2ND

Stations	Barom.	Change	Direc.	Force	Weather	Temp.	Hum.	Vis.	Height	Low Form	Low Amt.	Upper Form	Total	Sea
Renfrew	1013.3	0	WSW	3	co+	38	85	8	2500	StCu	7	-	7	*
Eskdalemuir	1014.3	0	WSW	4	bc-	34	85	6	*	-	-	-	-	*
Valencia (Cahire'n)	1024.7	0	WNW	4	bc	41	*	*	*	*	*	*	*	4
Baldonnel	1020.9	+1	W	4	bc-	37	75	8	-	-	-	-	-	*
Manchester (Alex. Park)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1023.3	-2	SW	1	r̥+	47	92	4	-	Nb	10	-	10	*
Calshot (Hants)	1023.1	-2	-	0	fb+	35	97	3	-	-	-	-	-	*
Lympne (Folkestone)	1023.0	-2	SW	2	bc	37	97	7	-	-	-	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1016.8	-1	WNW	5	pr̥	45	97	7	2500	~~Nb~~ St	4	Nb	6	*
Cranwell (Lincs)	1015.8	-3	WSW	3	bc+	43	92	7	2500	StCu	5	-	5	*
Felixstowe	1022.0	-3	SW	3	bc	40	95	8	-	-	-	-	-	/
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1021.9	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	1022.9	-4	SW	4	bc	38	92	8	-	-	-	.	-	*

7H. G.M.T. OF 2ND

Stations	Barom.	Change	Direc.	Force	Weather	Temp.	Hum.	Vis.	Height	Low Form	Low Amt.	Upper Form	Total	Sea
Renfrew	1013.0	0	SW	4	b+	36	85	7	800	St	3	-	3	*
Eskdalemuir	1015.5	+2	W	5	c/s	32	85	6	1500	StCu	8	-	8	*
Valencia (Cahire'n)	1026.4	+2	WNW	4	bc	42	75	8	2500	Cu	6	-	6	4
Baldonnel	1021.9	+1	WSW	2	bc+	34	85	7	2500	StCu	1	A St	2	*
Manchester (Alex. Park)	1019.2	0	WSW	3	bc/r	38	85	6	1500	St	3	Ci	5	
Ross on Wye	1021.6	+2	W	1	co-	39	85	9	5750	StCu	7	Ci	8	*
Falmouth	1024.5	+3	NNW	2	co	42	85	8	-	StCu	10	-	10	*
Calshot (Hants)	1021.2	-2	WSW	3	ofr̥	45	97	6	800	Nb	10	-	10	1
Lympne (Folkestone)	1021.1	-2	WSW	2	co	36	97	4	-	-	-	A Cu	7	*
Aberdeen	1007.2	-1	WSW	5	bc/r	34	75	8	4000	Cu Nb	1	-	1	0
Howden	1015.2	0	SSW	3	bc+	35	92	7	4000	St	3	A St	5	*
Cranwell (Lincs)	1019.5	+1	NW	3	co-	38	92	7	4000	StCu	4	A St	7	*
Felixstowe	1020.5	0	WNW	3	bd̥+	39	97	4	800	St	10	-	10	4
Shoeburyness	1020.2	-1	SW	1	iffo	39	85	6	1500	St	10	-	10	*
Benson	1020.7	+1	-	0	ofr̥	39	92	6	-	Nb	10	-	10	*
S. Farnborough	1020.5	-1	W	3	or̥+	43	97	6	450	Nb	10	-	10	*
London (M.O. at 1H.)	1020.9	0	-	0	orr	41	97	5	1500	Nb	10	-	10	*
Croydon	1021.2	-1	WSW	3	ofr̥	43	97	6	800	Nb	8	-	10	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

18H. G.M.T. of 1ST: Barom. at M.S.L. mb. | Temp. °F. | Wind Direc. | Wind Force 0-12 | Weather.
7H. G.M.T. of 2ND: 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. 2ND: Rainfall mm.† Day | Night | Temp. Max. Day °F | Min. Night °F | Weather Morning | Afternoon | Night. Sunshine Hours (1ST).

Stations	Barom. (18h)	Temp.	Direc.	Force	Weather	Barom. (7h)	Change 3 h	Temp.	Change 24 h	Direc.	Force	Upper Cloud	Weather	Sea	Rain Day	Rain Night	Max.	Min.	Morning	Afternoon	Night	Sunshine
Lerwick	1002.9	39	W	3	r̥+	995.2	-3	32	-10	WNW	1	-	s+	0	5	4	44	32	p	p	r or d. S or RS	*
Stornoway	1006.5	35	WSW	5	PRS	1004.2	+3	36	-8	WNW	5	-	ph̥	4	3	4	44	34	p	p	S or RS.c	0.0
Castlebay (Barra Is)	1010.1	38	NW	5	bc	1010.6	+2	40	-6	WNW	6	.	ph (r)	7	2	0.6	46	38	p	c	h or rh	0.2
Malin Head	1011.9	46	W	4	o	1014.3	+3	38	-8	W	4	-	c ph̥		4	2	45	37	oo	r or d	p h or rh	0.2
Blacksod Point	1016.4	42	WNW	3	pr̥	1021.0	+3	41	-7	NW	3	-	h̥ (r̥)	1	5	2	~~40~~	35	oo	h or hr	h or hr	*
Roche's Point	1022.1	48	SW	4	o	1025.7	+2	39	-8	WNW	3	-	bc	0	TR.	-	52	35	oo	p	c	*
Birr Castle	1015.8	45	W	3	~~co/r~~ co/r	1023.0	*	34	-10	W	1	-	bc-	*	0.4	0.2	53	33	c	p	r or d	2.6
Donaghadee	1015.3	44	W	3	c/r	1017.8	+1	34	-11	W	3	-	bc-	4	1	0.2	53	31	c	p	p	*
Liverpool (Bidston)	1019.6	46	SW	4	c	1019.1	0	40	-4	W	5	-	bc	4	-	1	50	39	c	c	p	1.1
Holyhead	1010.5	48	SW	6	or̥+	1020.0	0	42	-5	WNW	6	-	co-	5	-	4	48	40	oo	c	oo.c	0.0
Pembroke (St. Ann's Head)	1021.8	47	SW	3	oo	1023.7	+1	42	-5	NW	3	-	bc v	3	-	1	49	42	oo	c	b or bc	1.4
Scilly (St. Mary's)	1025.1	50	SW	2	bc	1025.2	+1	46	0	NNW	4	-	co-	4	-	-	54	44	b or bc	b or bc	c	7.3
Jersey (St. Aubin)	1026.6	46	SE	2	bc	1023.3	0	39	+5	W	2	-	bc+	0	-	-	50	34	f or m	b or bc	b or bc	9.5
Portland Bill	1025.8	47	SW	2	b	1021.8	0	46	0	WNW	4	-	co/r	3	-	1	50	41	b or bc	b or bc	bc. r or d	*
Dungeness	1025.6	45	WSW	2	bc-	1020.7	-2	41	-1	WNW	2	W	b	2	-	-	49	37		bc.c	c.cbbx	*
Wick	1006.0	38	WNW	3	co/r	1000.6	-3	33	-10	SW	4	-	bc/s	3	2	0.2	46	30	p	p	S or RS	*
Nairn	1007.5	39	W	3	c	1005.9	*	33	-13	WNW	3	-	cg	2	3	2	49	31	bc. bcg	cp.c	cbcsp	1.3
Leith	1010.3	44	SW	5	r	1011.6	0	34	-11	W	4	W	b	3	(1)		52	34	cg o c	cq op	pqcsb	*
Tynemouth	1015.1	48	W	5	c	1014.7	0	37	-9	WSW	4	-	co+	1	*	Trace	50	37	c	c	p.c	*
Spurn Head	1020.6	45	SW	5	fb	1017.1	+2	41	-2	WNW	5	-	pr̥	3	*	-	48	35	c	f or m	b or bc.oo	*
Yarmouth (Gorleston)	1023.5	46	SW	3	ffo	1019.4	-1	40	-2	W	4	-	or̥f̥	0	-	Trace	50	37	b or bc	f or m	b or bc	1.5
Clacton-on-Sea	1024.6	45	SSW	3	c	1019.9	-1	39	-1	W	4	-	co	1	-	-	49	38		c	c	1.1
Nottingham	1021.9	47	SW	3	b	1019.4	*	40	-2	W	3	-	bc/r	*	-	0.4	50	34	c	c	?	2.0

-1006.0

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

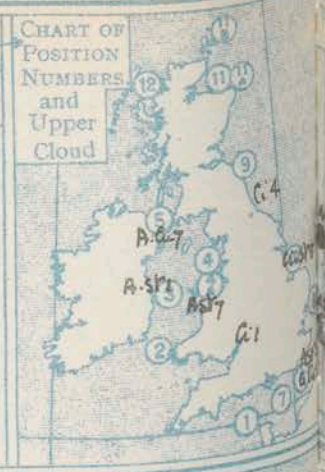
M.O. FORM 2370.

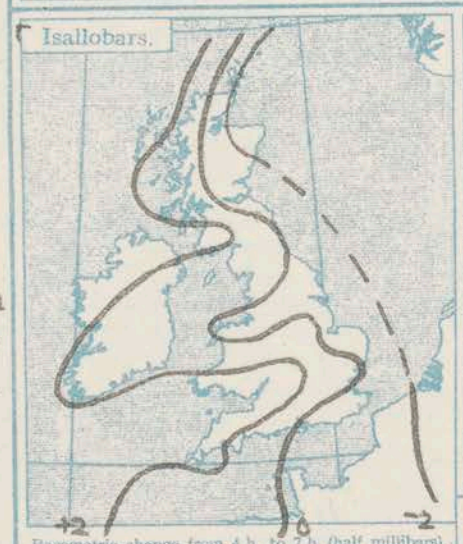
SUMMARY OF CONDITIONS AT 7 h. G.M.T.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Mainly overcast with slight rain.	Indiff	Slight
2. E. England	Mainly overcast with slight rain.	Poor	Slight
3. E. Midlands	Fair to dull local rain	Poor	-
4. W. Midlands	Cloudy.	Good.	-
5. S.W. England	Fair to cloudy, slight local rain.	Good.	Slight
6. South Wales	Fair generally.	Good.	Mod.
7. North Wales	Fair generally.	Good.	"
8. N.W. England	Fair generally.	Fair.	"
9. N. Midlands	Fair generally.	Indif.	-
10. N.E. England	Fair generally.	Fair.	Slight
11. E. Scotland	Fine to cloudy.	Fair.	"
12. S.W. Scotland	Fair generally.	Fair.	Mod.
13. Isle of Man	Fair generally.	Fair.	"
14. N.& N.W. Scotland	Mainly dull with slight hail.	Indiff.	"
15. Hebrides	Overcast with slight hail.	"	R.Rough
16. Orkneys and Shetlands	Mainly fair, snow showers.	Good.	Calm.
17. N.W. Ireland	Cloudy, slight hail.	Indiff.	Slight.
18. N.E. Ireland	Cloudy, slight hail.	Fair.	Mod.
19. S.E. Ireland	Fair or fine.	Fair.	Slight
20. S.W. Ireland	Fair.	Good.	Mod.

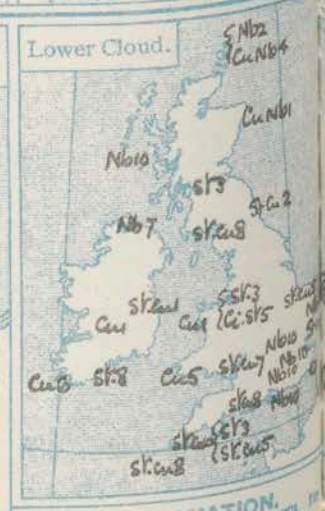
Temperature reported from Coastal and Cross Channel Steamers.

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 ½ clouded. overcast sky. snow. fog. T thunder. sky ¾ clouded. rain falling. sleet. mist. hail. ⚡ thunderstorm.
SEA DISTURBANCE.—Rough. High.

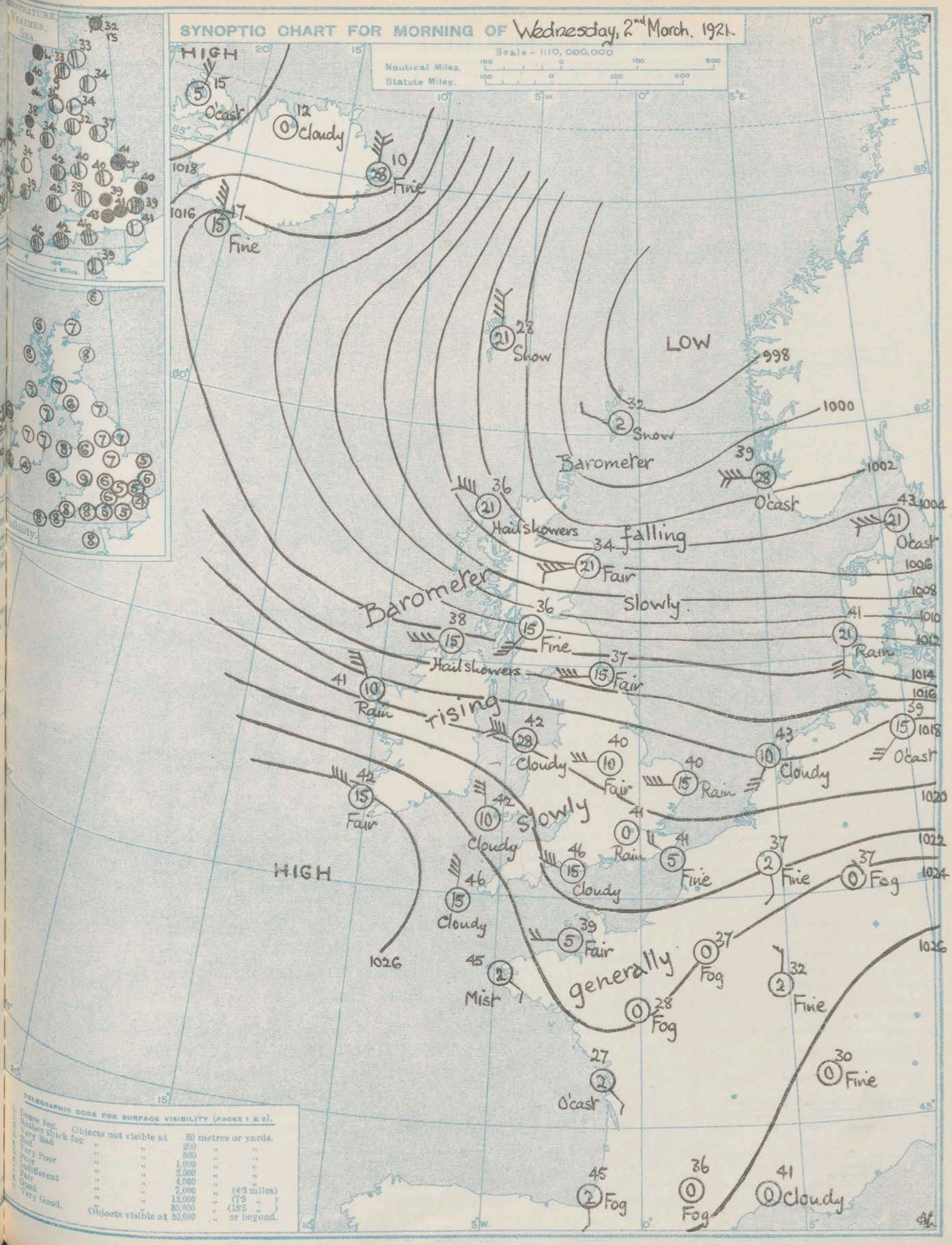
GENERAL INFERENCE from observations received up to 9h.

The South-Easterly movement of a depression centred near the Shetlands, and the spread of a high pressure system from Greenland, are causing winds to become more Northerly. Rather cold weather is probable during the next day or two with local snow or hail in the North.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 2nd. March 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind North-West moderate; variable sky, occasional showers, perhaps hail; visibility mainly good; colder.	Cold for a day or two with Northerly winds.
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	Wind North-West or North, moderate to fresh; variable sky, showers of hail, snow or sleet, brighter intervals; visibility fair to good; cold.	
19. S.E. Ireland 20. S.W. Ireland	As for 1 - 6.	

Met. 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 Wednesday, 2nd March. 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
O'cast
Cloudy
Fine
Fine
LOW
Snow
Snow
Barometer
falling
O'cast
Hailshowers
Fair
O'cast
Barometer
slowly
Fine
Hailshowers
Fair
Rain
rising
Rain
Cloudy
Fair
Cloudy
Rain
Cloudy
O'cast
Fair
Cloudy
Slowly
Rain
Fine
Fine
Fog
HIGH
Cloudy
Cloudy
Fair
generally
Fog
Fine
Mist
Fog
O'cast
Fine
Fog
Fog
Cloudy
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Very Bad " " 250 " "
Bad " " 500 " "
Very Poor " " 1,000 " "
Poor " " 2,000 " "
Indifferent " " 4,000 " "
Fair " " 7,000 " (4·3 miles)
Good " " 12,000 " (7·5 ")
Very Good. " " 30,000 " (18·5 ")
Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 61 — WEDNESDAY 2ND MARCH 1921

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. To 9h. 1st	Rainfall. Day. 9h-18h. 1st	Sunshine. Sunrise to Sunset. 1st
Scotland.	Banff	0. bc	r. 0	52	40	0.1	1	1.1
England, N.E.	Harrogate	bc. c	c	49	41	-	-	0.6
	Skegness	0. c	bc. 0. b	48	~~36~~	-	-	1.1
England, E.	Lowestoft ...	c. 0	0. c. 0	45	37	-	-	0.5
	Felixstowe	bc3	bc3	49	39	-	-	1.4
	Southend-on-Sea...	0	0. c	51	36	-	-	0.9
England, S.E.	Tunbridge Wells	0	c. 0. c	50	33	-	-	0.4
	Margate	0. c	c	52	39	-	-	1.9
	Ramsgate	*	*	48	~~30~~ 36	-	-	3.9
	Folkestone	0	c. 0	48	38	-	-	2.3
	Hastings	0. bc	bc. b	49	39	-	-	3.2
	Eastbourne... ...	bc	bc	50	36	-	-	4.1
	Brighton	bc	bc	49	35	-	-	1.1
	Worthing	c	bc	51	34	-	-	1.9
	Portsmouth (S'thsea)	*	*	53	36	-	-	6.2
	Bournemouth ...	*	*	52	31	-	-	1.5

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. To 9h. 1st	Rainfall. Day. 9h-17h. 1st	Sunshine. Sunrise to Sunset. 1st
England, N.W.	Blackpool	c	0	47	45	-	-	0.0
	Southport	0. c. 0	0. c	48	44	-	-	0.1
Midlands.	Leamington Spa..	c	bc	51	37	-	-	4.2
	Bath	bc. b	b. bc	53	32	-	-	6.8
Wales.	Rhyl	c	c. bc. c	49	42	-	-	0.5
	Colwyn Bay ...	*	*	50	44	-	-	0.7
	Llandudno	*	*	50	45	-	-	0.2
	Aberystwyth	0. 0. c	c. c. 0	47	43	-	-	0.5
England, S.W.	Weymouth	bc	bc. b	53	35	-	-	1.7
	Torquay	w. bm	b	53	35	-	-	5.6
	Paignton	bm. b	b3	53	31	-	-	6.8
	Penzance	c. bc	bc. b	53	38	-	-	6.4
	Bude	w. bc	b	52	34	-	-	6.9
	Ilfracombe	0. c. bc	bc. b	50	~~37~~ 44	-	-	6.0

STATIONS.	Summaries for past 24 hours. Weather. 7h-13h. 1st	13h-18h. 1st	18h. 1st-1h. 2nd	1h-7h. 2nd	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	00	r or d	p.	p	49	~~34~~	~~28~~ 31	8	1	1.3
Eskdalemuir	r or d	00	p	S or RS	44	31	30	TRACE	7	0.2
Valencia (Cahirc'n) ...	c	p	p	p.	50	39	35	0.6	0.3	0.3
Baldonnel	~~8~~ 00	p	p	b or bc	57	34	30	0.2	0.3	2.1
Manchester (Alex. Park)	00	00	p	p	51	37	30	-	1	*
Ross on Wye... ...	c	c	p	p	52	39	35	-	1	4.8
Falmouth	c	b or bc	b or bc	r or d	53	41	34	-	0.5	4.4
Calshot (Hants)... ...	f or m	c	b or bc	r or d	56	34	25	-	1	6.9
Lympne (Folkestone) ...	for mf	00	b or bc	c	47	34	?	TRACE	TRACE	2.7
Aberdeen	b or bc	p	p	p	49	34	29	TRACE	0.1	1.2
Howden	00	c	r or d	c	51	34	30	-	TRACE	0.4
Cranwell (Lincs)	00	f or m	b or bc	r or d.	49	35	34	-	2	4.0
Felixstowe	c	c	b or bc	c	49	37	34	-	0.1	1.7
Shoeburyness	c	c	c	c	52	37	30	-	-	1.2
Benson	c	b or bc	r or d	r or d	51	35	27	-	2	*
S. Farnborough ...	f	c	b or bc	b or bc	53	34	27	-	1	4.6
London (Kew Obsy.) ...	c	c	f or d	r or d	51	35	27	-	1	2.2
Croydon	00	00	b or bc	r or d	51	37	32	-	2	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; b(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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.	9 h. G.M.T.
	24 hours ended 9h G.M.T. 2nd							Yesterday.		To-day.
Greenwich (Royal Observatory)	0. c	c	c or	53	35	25	2	3.6	54	94
City (Bunhill Row)	*	*	*	*	*	*	*	1.1	*	*
Westminster (St. James's Park)	*	*	*	53	36	28	2	3.3	52	91
Regents Park (Botanic Gdns)	*	*	*	*	*	*	*	2.3	*	*
Camden Sq. (British Rainfall)	bc	b	*	53	36	30	2	*	77	81
Kensington Palace	c x bc	bcc	*	53	36	27	2	*	70 (18h)	90
Hampstead Observatory ...	*	*	*	50	37	31	2	2.2	*	97

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 March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.40 / 6.38	12.5 / 12.5	5.30 / 5.31
Greenwich	6.46 / 6.44	12.12 / 12.11	5.40 / 5.41
Wick ...	7.8 / 7.9	12.34 / 12.34	5.41 / 5.40
Valencia ...	7.25 / 7.26	12.23 / 12.23	5.21 / 5.22

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

Exposure from 13h 18m 45s m.
to 24h 5h 45s m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	0	8	30	86
δ Ursae Minoris	10	0	8	20	76

NOTES ON THE WEATHER OF YESTERDAY.

Snow fell during the night over a wide area in Scotland, the equivalent of 4 to 7 mm of rain being measured. The dry spell in the South-East was broken by rain which commenced early Wednesday morning. The day was very fine in the South, 9.5 hours of sunshine being recorded at Jersey, while Paignton and Torquay enjoyed more than 8 hours. Temperature was about normal for the time of year.

* 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. 21651 THURSDAY. 3RD MARCH. 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 2nd														**18H. G.M.T. OF 2nd**													
Renfrew	1016·3	+4	WNW	5	bc	41	75	8	1500	Cu	5	-	5	*	1021·1	+5	WNW	2	cq+	39	85	8	800	Nb	8	-	8	·
Eskdalemuir	1016·9	+2	W	4	ps₀	35	85	5	1500	Nb	10	-	10	*	1021·0	+4	NW	3	b	34	75	8	2,500	Cu	1	-	1	*
Valencia (Cahirc'n)	1029·2	+1	NW	4	b	46	65	8	4,000	Sr Cu	3	-	3	*	1029·5	+1	WNW	2	c	45	75	8	4,000	Sr Cu	4	A Sr	4	4
Baldonnel	1024·5	+2	W	4	c	46	65	8	4,000	Cu	8	-	8	*	1026·5	+3	SW	3	c	40	85	4	4,000	Sr Cu	5	A Sr	6	*
Manchester (Alex. Pk.)	1021·6	+3	W	6	o	45	65	8	3,000	Sr Cu	10	-	10	*	1023·4	+3	W	4	c	40	75	5	1500	Cu Nb	4	-	4	·
Ross on Wye	1023·6	+1	WNW	4	cov	45	55	9	4,000	Cu	4	-	4	*	1024·1	+3	WNW	3	bcv	40	75	9	2500	Nb	1	Ci	6	*
Falmouth	1027·9	+1	NW	5	b	48	65	8	-	Sr Cu	3	-	3	*	1029·1	+2	NW	2	b	48	75	8	-	Cu	1	A Sr	2	*
Calshot (Hants) *	1024·0	+1	NW	4	bc	47	65	8	2500	Cu	5	-	5	*	1026·3	+4	WNW	3	b	43	65	8	2500	Cu	1	-	1	0
Lympne (Folkestone)	1022·2	+2	NW	2	o/r	42	85	6	2500	Sr	10	-	10	*	1024·4	+3	WNW	2	b	38	75	4	1500	Sr	2	-	2	*
Aberdeen	1010·9	+6	WNW	5	bc/s	42	65	8	4,000	Cu Nb	1	A Sr	4	*	1014·3	+4	W	5	b	36	65	8	4,000	Cu Nb	1	-	1	3
Howden	1019·1	0	NW	6	c	43	65	6	2500	Cu Nb	4	-	4	*	1021·1	+3	W	6	b	39	75	7	2500	Sr	1	A Sr	2	*
Cranwell (Lincs)	1021·0	0	WNW	5	bc	45	75	8	2500	Cu	6	-	6	*	1023·2	+3	WNW	3	b	38	85	4	4,000	Sr	1	-	1	·
Felixstowe	1021·4	+1	NW	5	bc	46	65	8	3750	Cu	5	-	5	*	1023·3	+4	NW	4	b	44	65	8	4000	Cu	1	-	1	4
Shoeburyness	1021·9	+2	NW	2	bc	45	65	4	4,000	Sr Cu	4	-	4	*	1023·4	+2	NNW	1	b	42	65	6	-	-	-	A Sr	3	*
Benson	1022·3	+2	WNW	4	bc	47	55	8	-	Cu	5	-	5	*	1025·4	+1	-	0	bv	42	55	9	-	-	-	Ci	2	*
S. Farnborough	1022·5	+3	WNW	5	bc	46	55	8	2500	Cu	6	-	6	*	1024·3	+4	WNW	2	b	43	65	8	2500	Cu	1	Ci	3	*
London (Kew Obsy.)	1022·4	+1	NW	4	bc/r	46	55	8	3750	Cu	5	-	5	*	1024·9	+3	NW	3	b	45	55	4	-	-	-	-	-	*
Croydon	1023·1	+2	NNW	4	c	44	55	8	4,000	Sr Cu	4	-	4	*	1025·2	+3	WNW	2	bc	43	65	6	4,000	Cu	1	Ci	4	*
	1H. G.M.T. OF 3rd														**7H. G.M.T. OF 3rd**													
Renfrew	1021.9	-1	WSW	2	b	35	85	8	1500	Sr	2	-	2	*	1016.3	-6	SSW	4	co/r	40	85	6	-	St	3	alt St	6	*
Eskdalemuir	1023.2 (red)	+1 (red)	WSW (red)	2 (red)	co+ (red)	28 (red)	75 (red)	- (red)	1500 (red)	St (red)	10 (red)	- (red)	-	*	1019.6	-4	SW	5	o	36	92	6	1500	Sr	9	A Sr	10	*
Valencia (Cahirc'n)	1029.5	-2	SSW	3	bcp	43	*	*	*	*	*	*	*	4	1023.6	-4	S…	4	pr₀	46	85	8	1500	Sr Cu	5	A Sr	10	3
Baldonnel	1026.6	-2	WSW	4	b	37	75	8	-	-	-	-	-	*	1021.8	-3	SSW	5	co	40	75	7	2500	St	10	-	10	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.7	-3	SSW	3	o	33	85	6	-	-	-	A Sr	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.1	-1	W	1	o	33	85	7	-	-	-	A Sr	10	*
Falmouth	1030.5	0	WNW	2	b	39	85	7	-	Sr	1	-	1	*	1029.0	-1	WSW	1	b	38	85	8	-	Cu	2	Ci Sr	3	*
Calshot (Hants)	1029.3	+1	WNW	2	b	32	92	7	-	-	-	-	-	*	1028.6	-1	W	1	b	35	92	6	-	-	-	A Sr	2	0
Lympne (Folkestone)	1027.9	+2	NW	3	b	31	85	7	-	-	-	-	-	*	1028.5	+2	WNW	1	c	30	85	9	-	-	-	Ci Sr	7	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.0	-6	SSW	4	o	36	85	5	4000	Sr Cu	10	-	10	3
Howden	1025.1	+1	WSW	1	b	29	97	5	-	-	-	-	-	*	1024.3	-1	SSW	2	co+	32	65	7	4000			Ci St	7	*
Cranwell (Lincs)	1026.6	+1	W	2	b	33	97	7	-	-	-	-	-	*	1027.0	0	WSW	1	co+	32	97	6	5750	Sr Cu	1	A Sr	6	*
Felixstowe	1027.3	+2	NW	2	b	36	85	8	-	-	-	-	-	*	1027.7	0	NW	2	b	34	95	8	-	-	-	Ci Sr	2	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.1	0	NNW	1	ff b	33	75	5	-	-	-	Ci	3	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.2	-1	-	0	bc	25	92	8	-	-	-	Ci	5	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.7	-1	SSW	1	b	25	97	5	-	-	-	Ci Sr	2	*
London (M.O. at 1h.)	1028.6	+3	*	*	*	34	*	*	*	*	*	*	*	*	1028.3	0	WSW	1	b	30	85	6	-	-	-	Ci Cu	3	*
Croydon	1029.1	+2	WSW	2	b	34	85	7	-	-	-	-	-	*	1028.8	0	SSW	3	bc	31	97	7	-	-	-	Ci Sr	4	*

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. † Day	Rainfall Night	Max. Day °F	Min. Night °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	1011·4	36	NW	4	s	1008.7	-8	35	+3	S	4	·	cPS	3	5	1	36	29	s or RS	s or RS	S or RS	*
Stornoway	1018·2	34	NW	4	p₀	1004.1	-8	44	+8	WSW	6	·	r₀+	5	3	1	41	31	p	p	b or bc	4.8
Castlebay (Barra Is)	1020·1	34	NW	4	bc/s	1009.5	-8	46	+6	WSW	4	·	d-	6	1	1	41	37	s or RS	s or RS	r or d	4.4
Malin Head	1021·1	40	W	4	PH	1012.5	-7	41	+3	SSW	4	·	o	5	1	1	44	38	p	p	c	4.7
Blacksod Point	1025·4	44	NW	2	pr₀	1015.4	-6	40	-1	SW	3	-	R-	1	TR.	3	45	32	b or bc	p	p	*
Roche's Point	1028·5	44	WNW	3	c	1025.3	-4	45	+6	WSW	3	-	o-	0	0.2	-	44	40	p	c	c	*
Birr Castle	1026·9	42	W	2	b	1021.7	*	42	+8	SSW	4	·	o	*	-	-	48	35	b or bc	b or bc	c	9.0
Donaghadee	1022·5	40	NW	3	c	1020.1	-3	39	+5	W	2	·	o	0	Tbd	-	46	37	s or RS	b or bc	oo	*
Liverpool (Bidston)	1023·3	41	W	5	b	1023.7	-3	38	-2	WSW	3	-	bc	1	-	-	44	37	b or bc	b or bc	b or bc	7.9
Holyhead	1025·0	42	WNW	4	bc/r	1022.4	-3	43	+1	WSW	5	-	bc~	5	TR.	-	46	35	b or bc	b or bc	b or bc	7.5
Pembroke (St. Ann's Head)	1024·5	47	NW	2	b	1026.6	-1	44	+2	W	3	-	cv	3	-	-	47	41	b or bc	b or bc	bc.c	9.3
Scilly (St. Mary's)	1028·8	46	NNW	3	b	1029.2	-2	45	-1	W	2	-	bc	1	-	-	50	42	b or bc	b or bc	b or bc	8.0
Jersey (St. Aubin)	1024·6	46	NW	3	bc-	1030.3	0	33	-6	SW	2	·	bc	0	0.1	-	49	33	r or d	b or bc	b or bc	4.5
Portland Bill	1026·1	46	NW	4	b	1028.8	0	44	-2	NW	3	-	b	*	-	-	48	43	b or bc	b or bc	b or bc	*
Dungeness	1023·9	40	WSW	2	b	1028.2	+1	33	-8	W	1	W	b	2	-	-	44	28	c.or.z	c.bc	bc bcx	*
Wick	1015·4	34	NNW	4	s	1006.9	-11	39	+6	SSW	6	-	o	6	1	-	39	28	s or RS	s or RS	S or RS. c	*
Nairn	1018·1	38	NNW	2	bc	1007.9	*	39	+6	NNW	4	-	cg	3	0.6	1	39	29	cpo. bc	bcpq	bc.c	1.0
Leith	1018.8	38	NW	2	b	1015.8	-2	39	+5	SW	3	-	o		(1)		43	33	b.sq.rs	cbc b	bc wo	*
Tynemouth	1018·4	40	N	3	bc	1021.0	-2	34	-3	SW	2	-	bc	1	0.2	-	42	33	p	s or RS	b or bc	*
Spurn Head	1020·1	43	WNW	6	b	1024.2	0	35	-6	W	3	·	bc	0	-	-	44	32	c	b or bc	b or bc	*
Yarmouth (Gorleston)	1021·0	43	WNW	4	b	1026.4	0	31	-9	W	3	-	b	0	3	-	44	30	r or d	b or bc	b or bc	5.3
Clacton-on-Sea	1023·0	44	WNW	3	bc/r	1027.6	0	31	-8	WNW	2	·	bc	0	1	-	47	31	?	r or d	b or bc	4.1
Nottingham	1023·1	41	NW	3	b	1025.8	*	32	-8	SW	1		bc	*	TR	-	44	32	p	p	b or bc	5.8

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

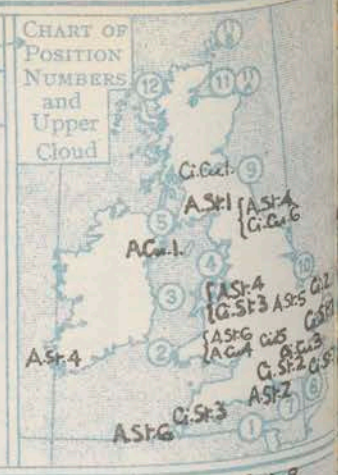
M.O. FORM 2370.

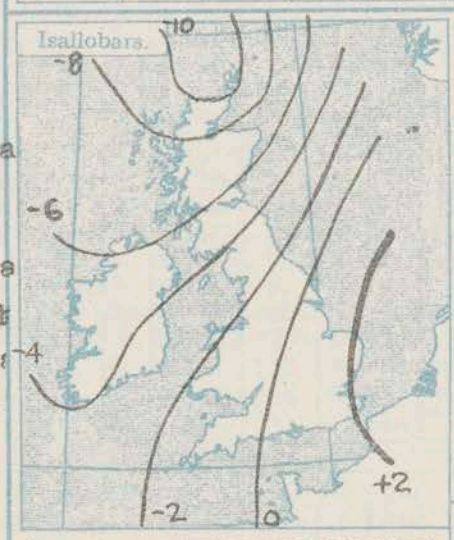
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 3.3.1921.

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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
2	2nd	0205	48	44
7	"	0313	46	47
4A	"	0425	43	41
10	"	0620	43	45
5	"	0816	47	41
3	"	0945	47	42
8	"	1410	45	47
2	3rd	0200	"	44
7	"	0400	57	44
4A	"	0320	45	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. ℞ thunderstorm.

SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to 9h.

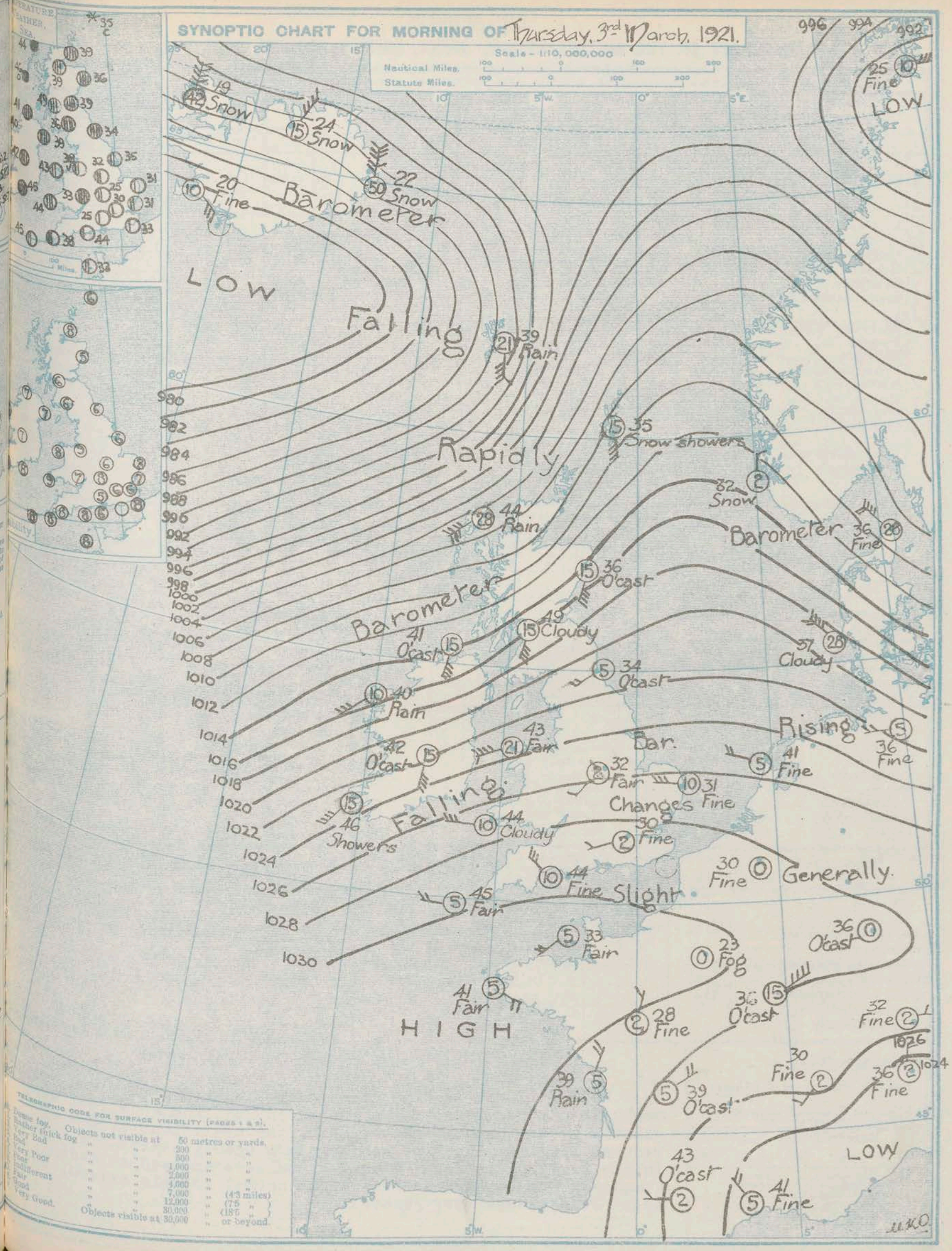
A new deep depression developing off South-West Iceland will probably move Eastward, causing South-Westerly or Westerly gales on our Northern ciasts. The main disturbance or secondaries will cause rain in all districts except perhaps the South Coast, followed by a burst of colder weather.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Thursday, 3rd March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind Westerly, moderate; fair at first, risk of rain or showers on Friday, visibility fair to good; temperature moderate then colder.	Continuing generally unsettled, with alternations of rainy and bright weather. -------
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind S.W. veering to N.W., moderate to strong; cloudy to dull, some rain, probably snow or hail showers during Friday, visibility fair to good; colder.	
11. E. Scotland	As for 14 - 16.	
12. S.W. Scotland 13. Isle of Man	As for 6 - 10.	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind S.W. veering to N.W. or N., strong to a gale; rainy at first, snow and hail later, brighter intervals on Friday, visibility fair to good; colder.	South Cone hoisted at 08.50h. today.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind W. veering N.W., fresh or strong; some rain at first, sleet or hail showers later, brighter intervals; visibility fair to good; colder.	

E9/3

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 0935

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



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

Dense fog.	Objects not visible at	50 metres or yards.		
Heavy thick fog	"	200	"	"
Very Bad	"	500	"	"
Bad	"	1,000	"	"
Very Poor	"	2,000	"	"
Poor	"	4,000	"	"
Indifferent	"	7,000	"	(4·3 miles)
Fair	"	12,000	"	(7·5 ")
Good	"	30,000	"	(18·5 ")
Very Good.	Objects visible at	30,000	"	or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 62

Thursday 3rd MARCH

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. 1-2	Rainfall. Day. 9h-18h. 2	Sunshine. Sunrise to Sunset. 2
Scotland.	Banff	s. c	bc	41	32	1	1	2·0
England, N.E.	Harrogate	b. bcps	bc. b. ps	43	34	0·3	-	4·3
	Skegness	b	b	47	34	-	-	6·6
England, E.	Lowestoft	o. c. bc	bc. b	49	38	2	-	5·0
	Felixstowe	ocp	b	48	36	1	-	4·4
	Southend-on-Sea	or. c bc	bc	50	35	1	-	4·0
England, S.E.	Tunbridge Wells	0	c. bc. b	49	34	2	-	3·9
	Margate	0	c. bc. b	46	37	0·1	0·1	2·3
	Ramsgate	*	*	46	36	0·4	-	2·8
	Folkestone	fc. od. c	oc		35	-	0·3	2·3
	Hastings	o. pc	bc. b	48	38	1	0·3	3·8
	Eastbourne	r. o	c. b. c. b	50	41	1	0·2	4·1
	Brighton	0	c. bc. b	50	41	1	-	4·3
	Worthing	0	bc. b	50	33	1	-	4·6
	Portsmouth (S'thsea)	*	*	49	37	2	-	6·5
	Bournemouth	*	*	49	33	1	-	8·5

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 1-2	Rainfall. Day. 9h-18h. 2	Sunshine. Sunrise to Sunset. 2
England, N.W.	Blackpool	bcp. rs	c	45	39	-	0·2	4·1
	Southport	b	b. bc	46	41	2	-	4·5
Midlands.	Leamington Spa	c	c	48	37	2	-	4·5
	Bath	b	b. bc	50	35	1	-	4·1
Wales.	Rhyl	bc	bc	44	38	2	-	3·4
	Colwyn Bay	*	*	44	38	4	-	3·1
	Llandudno	b	b. bc	48	39	2	-	4·3
	Aberystwyth	r. o. b	c. bc	45	40	3	-	
England, S.W.	Weymouth	c. b	c. b. b	52	42	2	-	3·3
	Torquay	r. bc. b	bc. b	52	41	0·4	-	5·2
	Paignton	bc	bc. b	50	36	0·3	-	7·4
	Penzance	bc. b	b. bc	51	44	-	-	4·1
	Bude	sp. bc	b	47	40	1	-	4·4
	Ilfracombe	c. bc	bc. c	47	39	1	-	4·2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-12h. 2nd	Weather. 12h-18h. 2	Weather. 18h. 2nd-1h. 3rd	Weather. 1h-7h. 3rd	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	p	b or bc	b or bc	r or d	48	33	28	TRACE	TRACE	6.8
Eskdalemuir	s or RS	b or bc		00	39	28	19	1	-	5.9
Valencia (Cahire'n)	b or bc	c	bcp	p	47	42	38	-	2	6.4
Baldonnel	b or b	c	b or bc		47			-	-	
Manchester (Pick. Pk.)	c	oo	s or d	r or d	46	32	24	-	2	*
Ross on Wye	b or bc	b or bc	b or bc	b or bc	50	31	25	-	-	8.6
Falmouth	b or bc	b or bc	b or bc	b or bc	50	37	32	-	-	4.4
Calshot (Hants)	c	b or bc	b or bc	b or bc	49	30	22	0.1	-	6.7
Lympne (Folkestone)	r or d	c	b or bc	b or bc	45	28	?	1	-	2.6
Aberdeen	s or RS	b or bc	c	c	43	30	23	TRACE	-	6.8
Howden	c	b or bc	b or bc		47	?		-		
Cranwell (Lincs)	c	s or RS	b or bc	b or bc	46	31	28	0.1	-	7.7
Felixstowe	c	b or bc	b or bc	b or bc	47	34	28	1	-	4.3
Shoeburyness	r or d	b or bc	b or bc	b or bc	48	31	22	1	-	3.3
Benson	b or bc	b or bc	b or bc	b or bc	47	24	18	-	-	*
S. Farnborough	c	b or bc	b or bc	b or bc	51	25	20	-	-	5.5
London (Kew Obsy.)	p	b or bc	b or bc	b or bc	48	30	18	1	-	5.2
Croydon	r or d	b or bc	b or bc	b or bc	48	30	21	1	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	33·5 or above

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)	o	oc bc	b bc mx	48	27	21	-	3.7	56	66
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*		52	29	25	-		52	83
Regents Pk (Botanical Gdns)	*	*	*	*	*	*	*	4.6	*	*
Camden Sq. (British Rainfall)	o d. c	bc	*	49	29	23	-	*	53	83
Kensington Palace	or bc	b	*	49	30	22	-	*	56 (18h)	83
Hampstead Observatory	*	*	*	48	30	21	-		*	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.

3rd & 4th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.38	12.5	5.33
	6.36	12.5	5.34
Greenwich	6.44	12.12	5.40
	6.42	12.12	5.42
Wick	7.6	12.24	5.43
	7.5	12.24	5.45
Valencia	7.26	12.23	5.22
	7.24	12.23	5.22

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

Exposure from 2nd h. 15 h. 45 m. to 3rd 5 h. 45 m.

Stars.	Duration of Exposure. h.	Duration of Exposure. m.	Duration of Record. h.	Duration of Record. m.	%
Polaris	11	0	11	0	100
δ Ursae Minoris	11	0	11	0	100

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell over a wide area in the South-East but the total measurements were everywhere small. In Scotland snow fell very generally, the highest amount being the evuivalent of 6mm of rain at Lerwick. Sunshine was abundant nearly everywhere. In the Western districts 8 to 9 hours were enjoyed at most stations. Day temperature was about normal for the season, but night frosts were very general.

* 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. 21652 FRIDAY, 4th MARCH 1921.

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

13H. G.M.T. (3rd)

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1005.3	-8	SSW	5	r	44	92	5	800	Nb	10	-	10	
Eskdalemuir	1012.0	-8	SSW	6	r+	40	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1019.5	-5	SW	5	rr	48	92	7	1500	St	10	.	10	+
Baldonnel	1016.1	-2	S	5	rr	45	85	6	800	Nb	10	.	10	*
Manchester (Alex. Pk.)	1019.8	-6	WSW	4	ov	45	75	9	-	-	.	A St	10	+
Ross on Wye	1022.9	-5	WSW	4	PR-	45	75	8	2500	Nb	8	A St	10	*
Falmouth	1026.6	-4	SW	5	o ⊕	48	65	8	-	Cu Nb	5	A St	10	*
Calshot (Hants)	1026.7	-5	S.W	4	vo/r	46	80	9	4,000	St Cu	9	-	9	+
Lympne (Folkestone)	1026.5	-4	SW	5	ov	45	65	9	2500	St Cu	6	Ci St	8	*
Aberdeen	1006.0	-8	SW	5	o	42	75	6	1500	St Cu	10	-	10	+
Howden	1019.5	-7	SW	5	o	45	75	4	1500	St	5	A St	10	*
Cranwell (Lincs)	1022.2	-6	SW	5	c	47	85	8	2000	Cu	1	A Cu	9	+
Felixstowe	1025.7	-5	S	4	b/f	45	75	7	4,000	Cu	2	-	2	*
Shoeburyness	1025.6	-4	SW	2	bc	47	65	7	4,000	Cu	3	Ci	5	*
Benson	1024.0	-6	WSW	4	o	47	65	8	-	Cu	9	-	9	*
S. Farnborough	1025.4	-5	WSW	5	c	50	65	7	4,000	St Cu	6	Ci St	8	*
London (Kew Obsy.)	1025.1	-7	SW	4	c	48	65	7	4,000	Cu	7	-	7	*
Croydon	1026.0	-3	SW	4	o	48	65	8	4,000	St Cu	8	Ci St	9	*

18H. G.M.T. OF 3rd

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1000.8	-10	SSW	6	rr	44	97	5	800	Nb	10	-	10	+
Eskdalemuir	1003.8	-9	SW	8	rr	42	97	6	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1016.5	-2	SW	6	roro	49	92	6	800	St	10	-	-	6
Baldonnel	1010.5	-8	SSW	6	rr	47	92	5	800	Cu Nb	10	-	10	*
Manchester (Alex. Pk.)	1013.8	+7	SW	6	rr	43	92	5	1500	Nb	10	-	10	+
Ross on Wye	1018.8	-4	SW	5	ro	44	85	8	1500	Nb	10	.	10	*
Falmouth	1023.2	-3	SW	4	pro	46	85	8	-	Cu Nb	8	A St	10	*
Calshot (Hants)	1023.3	-3	SW	5	o	45	85	8	1500	St Cu	10	-	10	0
Lympne (Folkestone)	1025.8	-3	SW	5	SeV	40	85	9	1500	St	4	Ci St	6	*
Aberdeen	997.8	-9	SW	5	c	45	75	7	1500	St	8	-	8	3
Howden	1013.3	-7	SSW	5	o	45	75	7	1500	St	8	A St	10	*
Cranwell (Lincs)	1017.1	-5	SSW	5	ro	43	92	8	1,500	S Nb	5	A St	10	6
Felixstowe	1022.4	-3	SSW	5	c+	44	75	8	4,000	St Cu	1	A Ci	8	4
Shoeburyness	1022.1	-4	SW	5	c	44	75	6	2500	St	7	.	7	*
Benson	1020.5	-2	SSW	4	o	44	85	7	-	St	10	.	10	*
S. Farnborough	1022.2	-4	SW	5	o	44	85	8	2500	St Cu	4	A St	10	*
London (Kew Obsy.)	1024.8	-3	SW	4	o	46	75	5	2500	Nb	1	A St	10	*
Croydon	1022.9	-5	SSW	5	ro+	43	85	7	1500	St	5	A St	10	*

1H. G.M.T. OF 4th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1000.1	0	SW	4	o	44	85	7	5,750	St Cu	9	-	9	*
Eskdalemuir	999.3	-1	W	7	c-	45	85	6	2500	St.	8	-	-	*
Valencia (Cahirc'n)	1015.1	-4	SW	6	c	49	*	*	*	*	*	*	*	6
Baldonnel	1009.4	-2	SSW	6	oDD	49	92	3	225	St	10	—	10	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1019.5	-3	WSW	5	odo	47	92	5	-	Nb	10	-	10	*
Calshot (Hants)	1018.0	-5	SW	6	odod	46	92	8	1500	St.	10	-	10	*
Lympne (Folkestone)	1017.8	-2	SW	5	oro+	43	97	7	-	Nb	10	-	10	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1006.1	-4	SW	5	oroно	44	97	5	500	Nb	6	-	10	*
Cranwell (Lincs)	1009.7	-5	WSW	6	coro	45	92	8	1500	Nb	10	-	10	*
Felixstowe	1015.9	-7	SSW	6	r+	43	92	4	500	Nb	10	-	10	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1h.)	1015.4	-3	*	*	*	46	*	*	*	*	*	*	*	*
Croydon	1017.2	-7	WSW	6	orr	44	92	8	800	Nb	10	-	10	*

7H. G.M.T. OF 4th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1000.4	+1	SW	5	co-	42	85	7	1500	St Cu	9	-	9	*
Eskdalemuir	1000.3	+1	W	7	co/r	40	85	6	2500	Cu N	6	A St	7	*
Valencia (Cahirc'n)	1014.0	0	WSW	5	co	50	85	8	1500	St.	8	A St	10	4
Baldonnel	1007.7	0	SW	6	roro	49	92	6	800	St	6	-	10	*
Manchester (Alex. Pk.)	1005.2	-2	WSW	5	co	50	85	8	1500	St Cu	10	-	10	*
Ross on Wye	1011.2	-1	W	4	co/r	49	85	8	2500	Nb	10	-	-	*
Falmouth	1017.6	0	WSW	4	co/r	48	92	7	-	St Cu	6	A St	10	*
Calshot (Hants)	1014.7	-4	WSW	5	co/r	48	97	8	2500	St Cu	10	-	10	3
Lympne (Folkestone)	1014.6	-2	SW	6	co/r	45	97	7	800	St	10	-	10	*
Aberdeen	994.5	+1	W	4	bc/r	40	75	8	4000	St Cu	1	-	-	0
Howden	1004.6	+1	WSW	5	odo do	48	92	4	800	Nb	6	-	10	*
Cranwell (Lincs)	1007.4	-1	WSW	4	odd	47	97	6	800	Nb	10	-	10	*
Felixstowe	?	?	SSW	5	co/r	46	85	7	800	Nb	10	-	10	5
Shoeburyness	1012.0	-2	WSW	4	co/r	48	85	6	1500	St	5	-	10	*
Benson	1011.8	-1	WSW	5	co	48	92	8	-	St Cu	10	-	10	*
S. Farnborough	1013.3	-2	W	4	odo	41	97	7	450	Nb	10	-	10	*
London	1012.3	-1	SW	4	co	48	85	7	1500	Nb	7	A St	10	*
Croydon	1013.6	-3	SW	5	oroo	47	92	8	800	St	10	-	10	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

18H. G.M.T. of 3rd; 7H. G.M.T. of 4th; 24 HOURS ENDED 7H. 4th; Sunshine 3rd.

Stations	18h Barom. at M.S.L. mb.	18h Temp. °F.	18h Wind Direc.	18h Wind Force 0-12	18h Weather	7h Barometer at M.S.L. mb.	7h Change in 3 hours	7h Temp. °F.	7h Change in 24 hours	7h Wind Direc.	7h Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	Rainfall mm. Day	Rainfall mm. Night	Max. Day °F	Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
Lerwick	989.4	45	SW	5	c/r	977.6	-5	41	+6	W	5	-	pro	4	2	6	45	34	r or d	r or d	p	*
Stornoway	992.3	44	W	6	PR	994.4	+5	37	-7	WNW	6	.	bc	5	8	4	48 [46]	37	r or d	p	p	0.1
Castlebay (Barra Is.)	997.0	46	WNW	5	pro	1000.0	+4	41	-15	NW	5	-	co/r	6	1	1	47	38	r or d	r or d	p	0.0
Malin Head	1001.1	48	WSW	5	rr	1002.0	+1	45	+4	W	4	-	o.pro	5	2	1	49	44	r or d	r or d	p	0.0
Blacksod Point	1006.0	50	W	5	r+	1006.3	0	47	+7	NW	3	-	rr	3	8	8	50	39	r or d	r or d	r or d	*
Roche's Point	1014.9	49	WSW	5	o/r	1014.0	-1	49	+4	SW	3	-	co	0	1	0.1	50	48	p	r or d	oo	*
Birr Castle	1012.1	47	SW	3	RR	1009.1	*	49	+7	SW	4	-	r-	*	1	?	47	?	r or d	r or d	r or d	?
Donaghadee	1007.5	46	WSW	3	roro	1005.1	+1	46	+7	WSW	3	.	oro	0	2	2	46	45	?	r or d	p	*
Liverpool (Bidston)	1012.6	44	W	4	poro	1005.4	0	48	+10	W	6	.	co/r	5	0.6	4	49	38	c	r or d	p	0.0
Holyhead	1011.7	47	SW	7	roro	1006.9	-1	49	+6	WSW	4	.	co/r	4	4	2	47	46	r or d	r or d	r or d	0.0
Pembroke (St. Ann's Head)	1018.0	46	SW	5	roro	1012.7	0	49	+5	WSW	6	.	co/r	6	2	1	49	44	p	r or d	oo	0.0
Scilly (St. Mary's)	1023.3	47	W	5	pro	1018.2	-1	49	+4	WNW	5	-	co+	7	0.1	0.5	51	48	c	c	p	0.7
Jersey (St. Aubin)	1026.5	47	NNW	2	bc	1019.9	-1	47	+14	W	5	-	co	3	-	-	50	46	f or m	b or bc	c	?7.5
Portland Bill	1022.9	45	SW	5	c	1016.5	0	48	+4	WSW	6	-	co	6	.	2	47	43	c	p	p. oo	*
Dungeness	1023.5	44	SW	4	bc	1013.8	-3	46	+13	SW	7	.	rr	6	-	0.6	48	33	oo	c	p r or d	*
Wick	991.5	44	SSW	6	dodo	988.7	0	35	-4	W	5	-	rsl	3	0.1	2	45	33	c	oo	p	*
Nairn	993.3	46	W	3	c	993.8	*	38	-1	W	4	-	c	3	0.2	1	48	36	cqq	cqp	qcp	0.4
Leith	999.6	45	SW	5	o	997.2	+1	42	+3	WSW	4	-	c	3	(0.4)		49	39	ocqc	copqo	opqoc	*
Tynemouth	1007.8	45	SW	4	o	1000.2	0	47	+13	W	3	-	co-	1	.	0.1	45	45	oo	oo	p	*
Spurn Head	1014.5	44	SSW	6	c	1004.6	-5	46	+11	WSW	6	-	pro	7	.	Trace	47	46	b or bc	c	p.oo	*
Yarmouth (Gorleston)	1020.2	45	SW	5	c	1009.0	-5	47	+16	W	5	-	co/r	4	.	1	48	30	b or bc	c	r.oo	7.4
Clacton-on-Sea	1021.9	44	SSW	4	c	1011.2	-2	46	+15	WSW	5	-	co/r	4	.	2	48	43	b or bc	b or bc	r or d	6.6
Nottingham	1016.2	44	SW	4	dodo	1007.2	*	49	+17	WSW	3	-	oro	*	TR	3	47	43	oo	p	r or d	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.

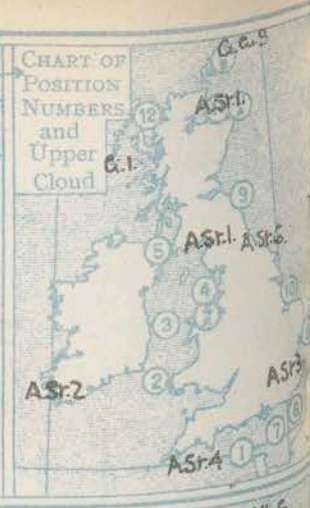
M.O. FORM 2370.

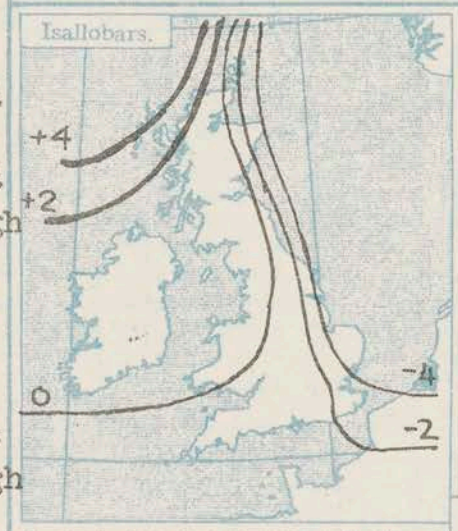
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 4.3.1921.

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

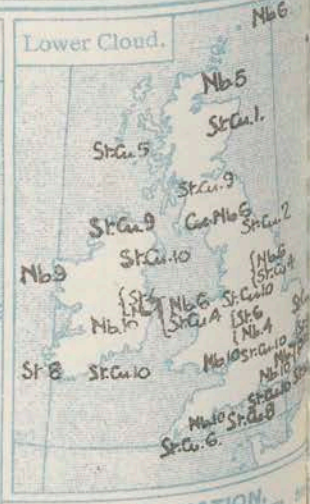
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time. G.M.T.	Sea °F	Air °F
5	3rd	0818	45	42
3	"	1015	47	45
1	"	1218	49	52
8	"	1327	44	43
6	"	1450	46	47
7	4th	0315	47	48
4a	"	0430	45	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 ½ clouded. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

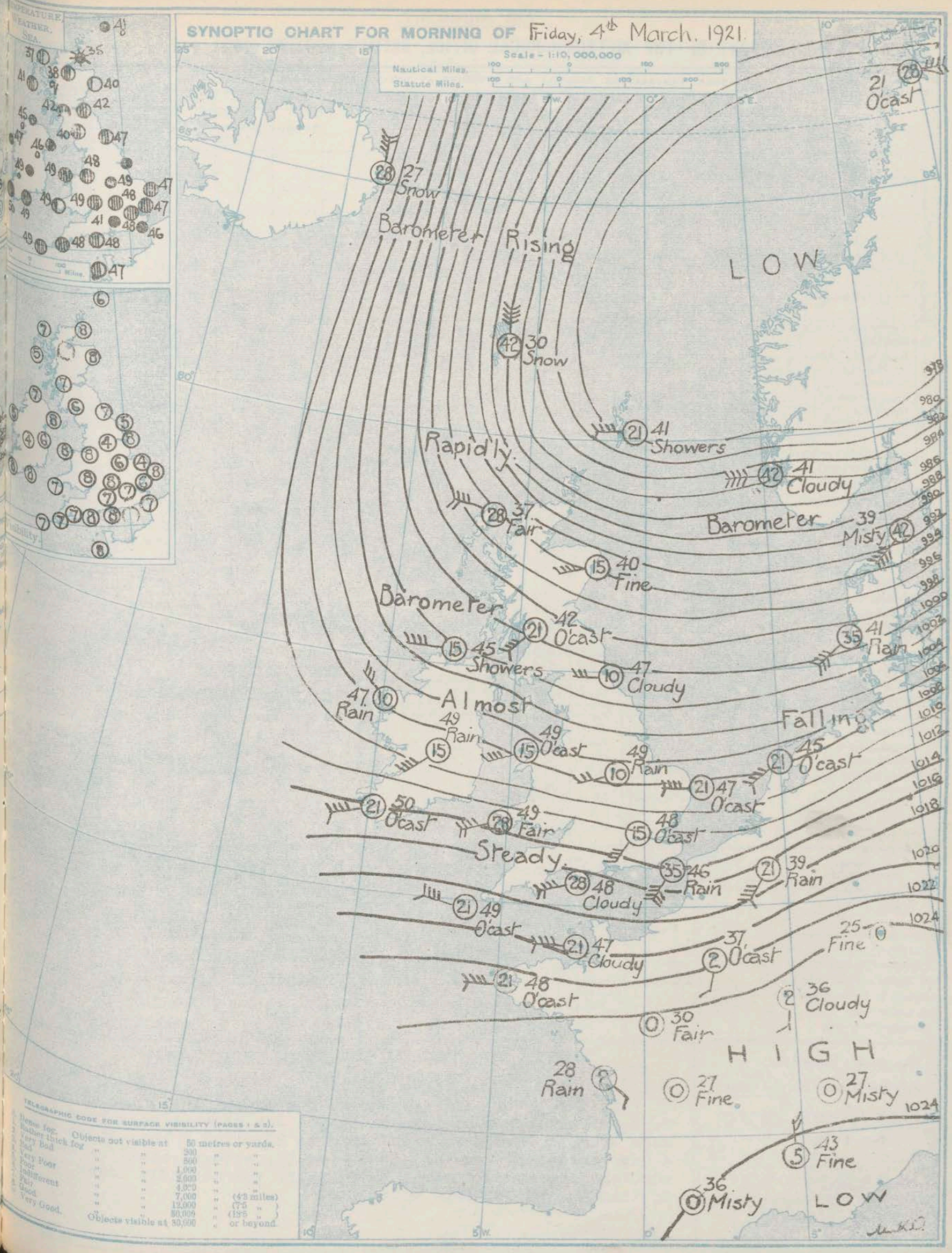
GENERAL INFERENCE from observations received up to 9h.

The deep depression now centred to North of the Shetlands will continue to move Eastward or South-Eastward. In its rear a Northerly current spreading Southward from Iceland will cause colder weather generally. A good deal of snow is probable in Scotland and snow, sleet or hail showers may be expected further South.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday, 4th March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind becoming North-Westerly, fresh or strong; changeable, some showers of rain, hail or sleet, visibility fair to good; colder.	Cold for a day or two with Northerly or North-Westerly winds.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind N.W. , strong, a gale in exposed places; changeable, squally, some rain, hail or sleet, visibility fair to good; colder.	
11. E. Scotland	As for 14-16.	
12. S.W. Scotland 13. Isle of Man	As for 7 - 10.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind N.W. to N., strong to a gale; changeable, some snow and hail, visibility fair to good; cold.	South Cone hoisted at 03.50h or 14.10h yesterday
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As for 14 - 16.	

E.G.B.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.25. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Friday, 4th March. 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
HIGH
LOW
Barometer Rising Rapidly
Barometer Almost Steady
Falling
28 27 Snow
42 30 Snow
21 41 Showers
42 41 Cloudy
28 37 Fair
15 40 Fine
21 42 O'cast
15 45 Showers
10 47 Cloudy
35 41 Rain
10 47 Rain
15 49 Rain
15 49 O'cast
10 49 Rain
21 47 O'cast
21 45 O'cast
21 50 O'cast
28 49 Fair
15 48 O'cast
35 46 Rain
21 39 Rain
28 48 Cloudy
21 49 O'cast
21 47 Cloudy
2 37 O'cast
25 Fine
21 48 O'cast
2 36 Cloudy
0 30 Fair
28 Rain
0 27 Fine
0 27 Misty
5 43 Fine
0 36 Misty
21 O'cast
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Rather thick fog " " 200 " "
2 Very bad " " 500 " "
3 Bad " " 1,000 " "
4 Very Poor " " 2,000 " "
5 Poor " " 4,000 " "
6 Indifferent " " 7,000 (4·3 miles)
7 Fair " " 12,000 (7·5 ")
8 Good " " 20,000 (12·5 ")
9 Very Good. " " Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 63

FRIDAY 4th MARCH

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	o. c	c. o	47	32	-	-	0·0
England, N.E.	Harrogate	o. c	c. op	44	31	-	-	0·0
	Skegness	b	bc. o	48	30	-	-	6·7
England, E.	Lowestoft	b. bc	bc. c. o	49	30	-	-	7·4
	Felixstowe	bc	o	48	30	-	-	7·0
	Southend-on-Sea	b	bc. c	49	32	-	-	6·0
England, S.E.	Tunbridge Wells	b	bc. c. o	49	30	-	-	4·6
	Margate	b	b bc. c	50	33	-	-	4·8
	Ramsgate	*	*	47	30	-	-	5·6
	Folkestone	bc	c v g	48	32	-	-	4·8
	Hastings	b bc	bc. o	48	31	-	-	5·8
	Eastbourne	b. bc	c. o	49	32	-	-	5·1
	Brighton	bc	op. c	49	35	-	-	5·2
	Worthing	b. bc	bc. c	50	29	-	-	6·0
	Portsmouth (S'thsea)	*	*	50	30	-	-	4·6
	Bournemouth	*	*	50	30	-	-	3·4
England, N.W.	Blackpool	c	o r g	45	35	o H	1	0·0
	Southport	o. c. o	o r	42	26	1	4	0·1
Midlands.	Leamington Spa	c. b	o r	48	28	-	0·4	3·7
	Bath	b. bc. o	op	50	28	-	0·3	1·8
Wales.	Rhyl	c	c	47	32	-	0·3	0·0
	Colwyn Bay	*	*	48	37	2	-	0·5
	Llandudno	o	o d r	47	40	-	1	0·0
	Aberystwyth	r. o. c	o r	47	41	0·3	1	0·0
England, S.W.	Weymouth	c	c. o	52	31	-	-	2·3
	Torquay	bc. op	bc. c. o	51	36	-	0·3	3·1
	Paignton	op. bo	bc. c. o	52	32	TRACE	TRACE	3·4
	Penzance	c	c. bc	51	39	-	-	2·3
	Bude	r	o	49	37	1	1	1·4
	Ilfracombe	o. c. bc. c	c. op	48	39	-	1	1·3

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 3rd	Weather. 13h-18h 3rd	Weather. 18h-1h 4th	Weather. 1h-7h 4th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall. Day. 7h-18h	Rainfall. Night. 18h-7h	Sun. Hours.
								mm.	mm.	
Renfrew	r or d	r or d	p	p	45	41	38	4	3	0.0
Eskdalemuir	r or d	r or d	r or d	c	41	39	37	12	10	0.0
Valencia (Cahire'a)	r or d	r or d	o c q	p	49	48	47	4	2	0.0
Baldonnel	r or d	r or d	r or d	r or d	47	46	43	3	2	0.0
Manchester (Alex Pk.)	o d	r or d	o o	o o	46	43	41	2	-	*
Ross on Wye	p	p	r or d	r or d	47	44	40	0·4	0·6	1·3
Falmouth	p	bo	r or d	r or d	51	45	43	0·2	2	2·3
Calshot (Hants)	p	c	p	o o	49	45	43	TRACE	TRACE	5.5
Lympne (Folkestone)	c	o o	r or d	r or d	45	40	-	-	3	4·9
Aberdeen	o o	r or d	o o	o o	46	43	41	2	-	*
Howden	o o	o o	r or d	r or d	50	42	30	-	1	2.7
Cranwell (Lincs)	c	p	r or d	r or d	47	42	?	TRACE	0.1	5.7
Felixstowe	b or bc	c	r or d	c	48	33	41	-	2	6.6
Shoeburyness	b or bc	c	r or d	r or d	49	43	41	-	0.6	5.4
Benson	c	o o	o o	o o	50	43	41	-	trace	*
S. Farnborough	c	c	r or d	r or d	51	45	41	-	0.3	5.0
London (Kew Obsy.)	c	p	r or d	r or d	48	44	41	TRACE	1	5·0
Croydon	b or bc	b	r or d	r or d	50	42	38	TRACE	2	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall : h(r) = "hail" or "rain and hail" ; bc = cloud 0–5 ; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 4th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	b bc	c o	o r. o r.	51	38	35	1	5.1	64	89
City (Bunhill Row)	*	*	*	*	*	*	*	2.0	*	*
Westminster (St. James's Park)	*	*		51	36	31	1	4.0	65	87
Regents Pk. (Botanical Gas)	*	*	*	*	*	*	*	4.0	*	*
Camden Sq. (British Rainfall)	b x c	c o	*	50	36	40	1	*	68	86
Kensington Palace	b x b	b b c	*	49	37	41	2	*	72 (18h)	93
Hampstead Observatory	*	*	*	47	35	32	1	4.1	*	97

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 & 5th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6 36	12 5	5 34
	6 34	12 5	5 36
Greenwich	6 42	12 12	5 42
	6 40	12 12	5 44
Wick	7 3	12 24	5 49
	7 0	12 24	5 48
Valencia	7 24	12 33	6 22
	7 22	12 33	6 24

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

Exposure from 3rd 18 h. 45 m. to 4th 5 h. 45 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	0	0	0	-
δ Ursae Minoris	11	0	0	0	-

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell almost everywhere, but except in the North and West the total amount was not large. The highest measurements were 22mm at Eskdalemuir and 16mm at Blacksod Point. There was a fair amount of sunshine in the South, several stations recording more than 7 hours. Temperature was markedly lower than of late in the Northern districts.

* 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. 8 21653 SATURDAY. 5TH MARCH 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.	Total. Amt. 0-10.	Sea 0-9.
13H. G.M.T. 4														
Renfrew	1004.1	+3	WNW	5	pr	46	65	8	1500	Sr Cu	6	Ci St	10	*
Eskdalemuir	1003.9	+3	WNW	6	c	45	63	8	2000	Cu	4	Ci St	8	*
Valencia (Cahirc'n)	1018.1	-1	SW	4	c	52	79	8	800	Sr Cu	7	-	7	*
Haldonnel	1009.1	+2	WSW	5	0/r	51	85	6	800	Nb	10	-	10	*
Manchester (Alex. Pk)	1008.1	+3	W	4	0 +	48	97	5	2500	Sr	10	-	10	*
Ross on Wye	1012.2	+1	W	5	0	52	85	8	2500	Sr Cu	10	-	10	*
Falmouth	1017.7	-1	WSW	4	pr	51	85	7	-	Nb	10	-	10	*
Calshot (Hants) *	1015.1	0	WSW	4	co	52	83	8	2500	Sr Cu	10	-	10	*
Lympne (Folkestone)	1013.8	0	WSW	6	co/r	48	92	8	800	Sr	10	-	10	*
Aberdeen	1001.1	+8	WNW	6	bc ⊕	43	65	8	2500	Cu	1	Ci St	6	*
Howden	1006.0	+2	W	4	pr	49	97	6	4000	Nb	10	-	10	*
Cranwell (Lincs)	1008.1	+1	W	4	co	53	85	8	800	Sr Cu	10	-	10	*
Felixstowe	1011.8	-1	SSW	4	co	51	85	6	1500	Sr Cu	10	-	10	*
Shoeburyness	1012.0	0	WSW	4	ff o	52	75	6	2500	Sr Cu	10	-	10	*
Benson	1012.2	+1	WSW	5	co	51	86	7	-	Sr Cu	10	-	10	*
S. Farnborough	1012.8	0	WSW	4	co/r	51	85	8	1000	Sr Cu	10	-	10	*
London (Kew Obsy.)	1012.9	0	WSW	4	co	53	75	8	2500	Sr Cu	8	A St	10	*
Croydon	1013.2	0	SW	5	co	51	85	8	800	Sr	10	-	10	*
1H. G.M.T. OF 5														
Renfrew	1010.2	+1	—	0	0	39	75	5	1500	Nb	10	-	10	
Eskdalemuir	1010.7	0	—	0	0	36	97	6	2500	Nb	10	-	10	*
Valencia (Cahirc'n)	1010.1	-2	WSW	1	bc	48	*	-	*	*	*	*	*	0
Haldonnel	1010.3	-1	SSW	4	pr	46	92	6	2500	Sr Cu	7	-	7	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1016.2	-1	WSW	2	bc/r	45	92	8	-	Sr	10	-	10	*
Calshot (Hants)	1015.8	-1	SW	4	co	47	92	8	4000	Sr Cu	10	-	10	*
Lympne (Folkestone)	1015.9	0	SW	4	pr	45	97	7	75	Nb	10	-	10	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1011.3	0	-	0	0	42	97	4	800	Nb	6	-	10	*
Cranwell (Lincs)	1012.3	+1	WSW	1	b	45	97	7	1500	Sr Cu	3	-	5	*
Felixstowe	1014.7	+1	WSW	3	co +	45	92	7	2500	Sr Cu	10	-	10	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1014.9	+1	*	*	*	48	*	*	*	*	*	*	*	*
Croydon	1015.9	0	SW	3	co	48	85	8	1500	Sr Cu	10	-	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.	Total. Amt. 0-10.	Sea 0-9.
18H. G.M.T. OF 4														
Renfrew	1008.1	+2	W	2	co	42	75	7	4000	St Cu	5	A St	10	*
Eskdalemuir	1008.5	+3	WNW	2	co +	37	85	8	-	-	-	A St	8	*
Valencia (Cahirc'n)	1011.9	-1	SW	3	co -	49	85	8	800	St Cu	4	Ci Cu	7	4
Haldonnel	1009.6	0	WSW	5	co/r	50	85	8	800	St	10	-	10	*
Manchester (Alex. Pk)	1010.4	+3	SW	1	0 +	43	97	4	800	Nb	10	-	10	*
Ross on Wye	1012.8	+1	W	4	co -	50	85	8	4000	Cu	6	Ci	8	*
Falmouth	1016.9	0	WSW	3	co	49	85	7	-	St Cu	6	A Cu	8	*
Calshot (Hants)	1015.8	+3	SW	4	co -	48	92	8	4000	St Cu	10	-	10	0
Lympne (Folkestone)	1014.7	+1	SW	5	co/r	47	97	7	800	St	8	A St	10	*
Aberdeen	1006.8	+6	W	3	co/s	39	65	7	4000	St Cu	4	Ci St	7	0
Howden	1009.3	+3	SW	3	r -	43	97	4	-	Nb	10	-	10	*
Cranwell (Lincs)	~~1009.3~~ 1010.3	+3	W	3	co/ttr	50	92	8	1500	St Cu	10	-	10	*
Felixstowe	1013.2	+3	WSW	4	co	51	85	7	2500	St Cu	7	A St	10	*
Shoeburyness	1013.0	+2	SW	2	ff o	50	78	5	2500	St Cu	6	A St	10	*
Benson	1014.3	+2	WSW	3	bc -	49	85	7	-	-	-	Ci St	4	*
S. Farnborough	1014.6	+1	W	3	co	51	75	8	1500	St Cu	4	A St	10	*
London (Kew Obsy.)	1014.1	+2	W	3	co	51	78	7	2500	St Cu	8	A St	10	*
Croydon	1014.7	+2	WSW	4	co	51	75	8	1500	St	8	A St	10	*
7H. G.M.T. OF 5														
Renfrew	1008.8	-2	ENE	3	5 +	33	97	2	1500	St	10	-	10	*
Eskdalemuir	1009.6	-1	NE	3	5 +	33	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1006.4		S	4	pr	47	92	7	1500	St	8	A Cu	9	0
Haldonnel	1008.5	-1	SSW	4	co	46	~~47~~ 85	8	1500	St	8	A St	10	*
Manchester (Alex. Pk)	1010.5	0	SSW	3	co	45	92	6	1500	St Cu	7	A St	10	*
Ross on Wye	1012.7	-1	WSW	3	co	45	92	7	1500	Nb	10	-	10	*
Falmouth	1014.0	-1	SW	3	co	45	97	7	-	Nb	10	-	10	*
Calshot (Hants)	1014.9	-2	SW	3	co	46	97	8	4000	St Cu	9	-	9	
Lympne (Folkestone)	1015.6	0	SW	4	co/r	45	97	8	800	St	10	-	10	*
Aberdeen	1011.2	0	NW	1	co +	31	85	4	1500	St	1	A St	10	0
Howden	1010.1	0	SSW	1	r o	44	97	4	1500	St	4	-	10	*
Cranwell (Lincs)	1012.2	0	WSW	2	co	43	~~92~~ 87	7	-	-	-	A Cu	10	*
Felixstowe	1014.9	0	SW	3	co	45	97	6	4000	St Cu	10	-	10	3
Shoeburyness	1014.5	0	SW	2	co -	46	85	6	5750	Cu	3	-	7	*
Benson	1013.2	-1	SW	2	co	44	92	8	-	St Cu	9	Ci	9	*
S. Farnborough	1014.5	-1	SW	3	co +	43	97	8	-	-	-	A Cu	~~8~~ 7	*
London (M.O. at 1H.)	1014.5	0	SSW	3	co	47	92	6	2500	St Cu	2	A Cu	7	*
Croydon	1015.2	0	SW	3	co/r	46	97	8	2500	St Cu	8	A Cu	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. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F.	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 4					7H. G.M.T. of 5									24 HOURS ENDED 7H. 5							4
Lerwick	1001.8	35	W	9	RS	1009.7	+3	30	-11	WNW	1	-	bc	0	0.1	0.2	41	29	S or RS	S or RS	S or RS bc or bc	*
Stornoway	1007.9	37	NNW	3	bc	1008.3	-2	35	-2	E	4	-	co -	4	2	-	41	30	p	b or bc	oc	3.1
Castlebay (Barra)	1008.6	40	NNW	2	bc +	1006.7	-2	36	-5	E	5	-	orr	6	0.2	2	43	36	b or bc	b or bc	p	0.4
Malin Head	1007.6	46	W	1	co	1002.6	-2	45	0	SSE	3	-	odd	1	1	9	46	38	p	p	r or rd	0.0
Blacksod Point	1006.5	49	SW	3	d	1002.5	-3	48	+1	SW	2	-	dd		4	2	51	40	?	p	p	*
Roche's Point	1013.5	50	WSW	3	co -	1010.2	-3	46	-3	SW	4	-	pr	3	-	1	54	46	oo	oo	p	*
Birr Castle	1009.8	48	W	3	d	1008.0	*	44	-5	S	2	-	co	*	0.2	0.2	53	42	r or d	r or d	r or d	1.4
Donaghadee	1009.3	43	NE	1	co/r	1007.3	-1	44	-2	WSW	2	-	co/r	0	1	3	46	43	p	p	r or d	*
Liverpool (Bidston)	1009.9	42	N	1	r	1009.7	0	44	-4	SSW	2	-	co v	1	1	1	51	43	c	r or d	p	0.0
Holyhead	1009.9	49	SW	1	co	1008.8	-1	47	-2	SW	5	-	co	1	0.3	trace	~~49~~ 52	46	p	c	poo	0.6
Pembroke (St. Ann's Head)	1013.7	48	WSW	4	co	1011.8	0	47	-2	SW	3	-	co +	4	0.2	-	50	46	oo	oo	b or bc	0.0
Scilly (St. Mary's)	1016.9	49	W	3	co -	1013.5	-2	47	-2	SW	3	-	opr	4	-	1	54	46	oo	c	bc p	1.9
Jersey (St. Aubin)	1019.3	49	SW	4	co/r	1016.1	0	46	-1	SW	3	-	co	0	0.1	-	50	46	r or d	r or d	oo	0.0
Portland Bill	1016.5	49	WSW	6	co	1014.9	-2	47	-1	WSW	4	-	co	4	-	-	50	47	oo	oo	oo	*
Dungeness	1014.5	48	SW	6	co	1015.6	0	46	0	SW	3	-	co -	3	1	0.1	49	45	oo	oo	c	*
Wick	1005.0	36	NNW	3	co	1010.1	0	22	-11	WSW	1	-	co/s	2	1	0.2	43	20	h or hr	h or hr	S or RS	*
Nairn	1006.8	37	NNW	2	bc	1009.3	*	31	-7	-	0	-	bc	0	1	-	42	26	cprs o	opc	bcx	5.0
Leith	1006.7	43	W	2	o	1009.5	0	34	-8	E	2	-	s	2		(7)	47	34	cbc	bcco	ocors	*
Tynemouth	1007.7	44	WNW	1	co +	1010.1	0	40	-7	SE	2	-	oro +	2	-	1	49	39	c	c	r or d	*
Spurn Head	1009.6	44	WNW	4	r	1010.2	0	44	?	SW	3	-	co/f	3	0.4	1	48	41	p	p	poo	*
Yarmouth (Gorleston)	1010.5	53	W	4	co -	1013.2	0	43	-4	WSW	3	-	co +	0	-	-	54	42	oo	c	b or bc	0.0
Clacton-on-Sea	1012.4	50	WSW	4	co	1014.1	0	46	0	WSW	4	-	co/r	1	-	0.1	52	44	oo	oo	p	0.0
Nottingham	1009.6	50	W	3	co -	1011.6	*	45	-4	SW	2	-	co -	*	0.2	-	54	42	p	c	c	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. 2.

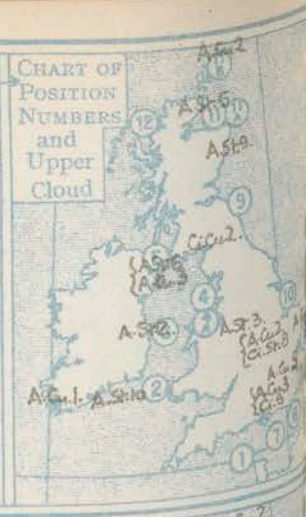
M.O. FORM 2370.

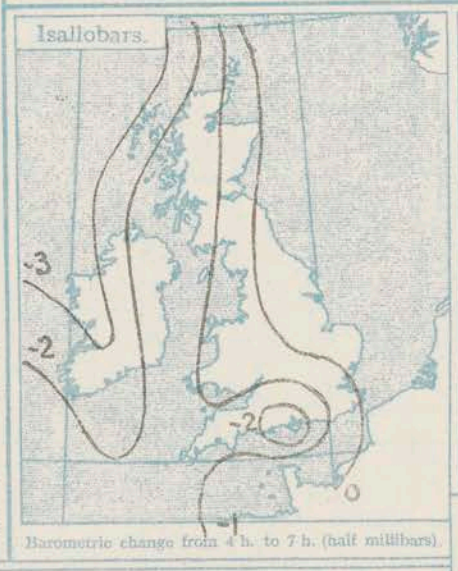
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 5.3.1921.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull.	Good	Mod.
2. E. England	Dull.	Indiff.	"
3. E. Midlands	Dull.	"	-
4. W. Midlands	Dull.	"	-
5. S.W. England	Showery.	Fair	Mod.
6. South Wales	Dull.	"	"
7. North Wales	Dull.	Good	Slight
8. N.W. England	Dull.	Fair	"
9. N. Midlands	Slight rain.	Poor	-
10. N.E. England	Slight rain.	"	Slight.
11. E. Scotland	Snowy.	Indiff.	"
12. S.W. Scotland	Snowy.	Poor	Calm
13. Isle of Man	Dull.	Fair	"
14. N.&N.W. Scotland	Sharp frost.	"	Mod.
15. Hebrides	Dull.	"	"
16. Orkneys and Shetlands	Fair.	"	Calm.
17. N.W. Ireland	Drizzling rain.	Indiff.	Slight
18. N.E. Ireland	Dull.	Good	Calm
19. S.E. Ireland	Showery.	"	Mod.
20. S.W. Ireland	Showery.	Fair	Slight

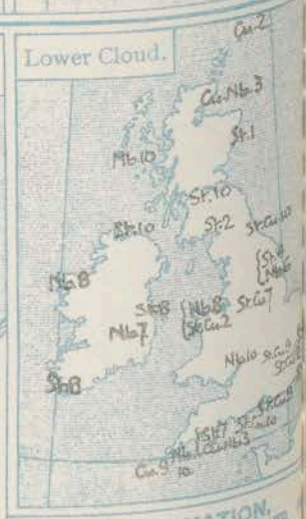
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	4th	0822	45	46
3	4th	0960	48	52
2	5th	0225	48	48
7	5th	0340	48	49
4a	5th	0458	45	46
12	5th	0420	46	38





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. snow. fog. thunder. sky ¼ clouded. rain falling. sleet. mist. hail. thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

GENERAL INFERENCE from observations received up to 9h.

A depression centred near Blacksod Point will probably move Eastward across the British Isles during Saturday. Very unsettled weather is to be anticipated in all districts. In its rear weather will become colder, with snow in places.

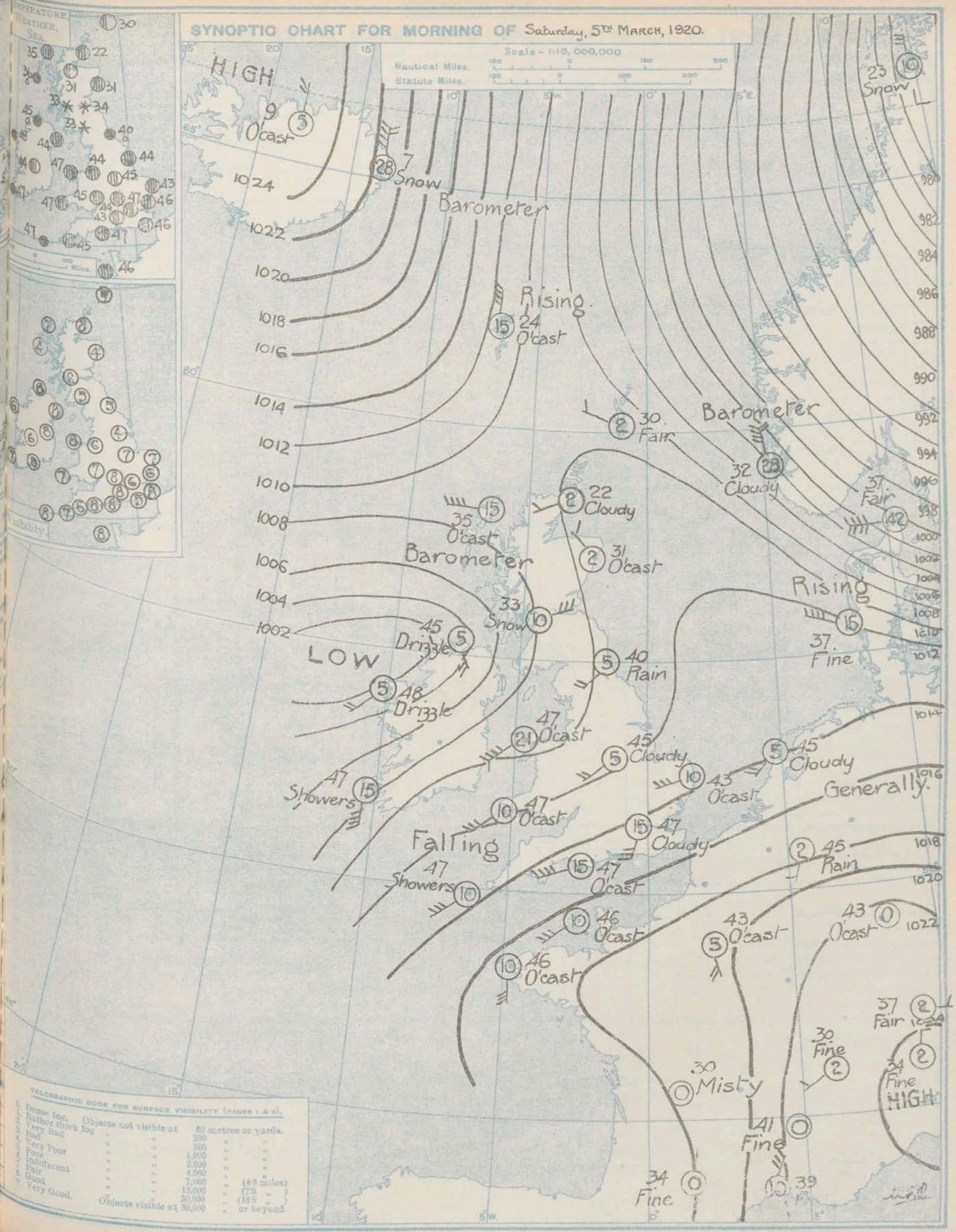
Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday, 5th March, 1921.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind S.W. veering later to N.W., moderate to fresh; dull, some rain, risk of snow or sleet later, visibility fair to good; rather mild then colder.
7. North Wales 8. N.W. England 9. N. Midlands	Wind Southerly, changing later to North or North-East, moderate to fresh; rainy, snow later, visibility indifferent to fair; much colder.
10. N.E. England 11. E. Scotland	Wind between E. and N., moderate to fresh; dull, much rain followed by snow, visibility indifferent to fair; much colder.
12. S.W. Scotland 13. Isle of Man	As for 7 - 9.
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind between E. and N., moderate to strong; dull, some snow, visibility fair; cold.
17. N.W. Ireland 18. N.E. Ireland	Wind becoming Northerly, moderate to strong; rainy at first, probably hail or sleet later, visibility fair; colder.
19. S.E. Ireland 20. S.W. Ireland	Wind W., veering to N., moderate to strong; rainy at first, showers of rain or hail later, brighter intervals, visibility fair; colder.

Further Outlook.

Colder, wi
Northerly winds
and snow in plac

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

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


SYNOPTIC CHART FOR MORNING OF Saturday, 5th MARCH, 1920.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
9 O'cast
7 Snow
Barometer
Rising.
24 O'cast
30 Fair
Barometer
32 Cloudy
37 Fair
23 Snow
22 Cloudy
35 O'cast
Barometer
31 O'cast
33 Snow
45 Drizzle
LOW
48 Drizzle
Rising
37 Fine
40 Rain
47 O'cast
45 Cloudy
45 Cloudy
47 Showers
43 O'cast
Generally.
47 O'cast
Falling
47 Cloudy
45 Rain
47 Showers
47 O'cast
46 O'cast
46 O'cast
43 O'cast
43 O'cast
57 Fair
30 Fine
30 Misty
34 Fine
HIGH
41 Fine
34 Fine
39
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " " 200 " "
2. Very Bad " " " 500 " "
3. Bad " " " 1,000 " "
4. Very Poor " " " 2,000 " "
5. Poor " " " 4,000 " "
6. Indifferent " " " 7,000 " (4·3 miles)
7. Fair " " " 12,000 " (7·5 ")
8. Good " " " 30,000 " (18·5 ")
9. Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 64 — Saturday 5th MARCH

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 3-4	Rainfall. Day. 9h-18h. 4	Sunshine. Sunrise to Sunset. 4
Scotland.	Banff	b. bc. h. b	b. bc	44	38	0·1	0·1	6·7
England, N.E.	Harrogate	cp	cp	47	41	4	1	0·0
	Skegness	or	r o	54	42	1	1	0·0
England, E.	Lowestoft	cg	cg	54	42	2	-	0·0
	Felixstowe	o	o	50	41	0·4	-	0·0
	Southend-on-Sea							
England, S.E.	Tunbridge Wells	o	o	51	41	2	-	0·0
	Margate	o	o	54	40	1	-	0·0
	Ramsgate	*	*	51	29	1	-	0·0
	Folkestone	d. r o	o	50	42	3	0·3	0·0
	Hastings	od. o	o. c. o	51	43	1	0·2	0·0
	Eastbourne	o	o	50	44	4	-	0·1
	Brighton	o	cp. o	49	36	1	-	0·0
	Worthing	o	o	50	45	0·3	-	0·0
	Portsmouth (S'thsea)	*	*	52	44	-	-	0·0
	Bournemouth	*	*	51	44	-	-	0·1

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 3-4	Rainfall. Day. 9h-18h. 4	Sunshine. Sunrise to Sunset. 4
England, N.W.	Blackpool	r o	od	47	43	5	0·4	0·0
	Southport	or	r	48	42	4	4	0·0
Midlands.	Leamington Spa	o. c	b	54	42	1	-	0·0
	Bath	o	o	52	40	1	-	0·0
Wales.	Rhyl	cp	c bc	54	44	1	-	1·5
	Colwyn Bay	*	*	52	45	-	-	0·2
	Llandudno	od	o. c	51	47	2	0·1	0·0
	Aberystwyth	r o. c	c. o	47	42	5	-	0·0
England, S.W.	Weymouth	bc	c. o	52	46	-	-	1·0
	Torquay	o	o	53	46	-	-	0·0
	Paignton	cp. o	o	50	45	-	-	0·0
	Penzance	b. c	c. o	52	46	2	0·2	0·4
	Bude	r	o	51	46	1	0·2	0·0
	Ilfracombe	o	o	50	44	5	-	0·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 4	Weather. 13h-18h. 4	Weather. 18h-1h. 4-5	Weather. 1h-7h. 5	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	p	c	r or d	S or RS	47	33	32	0·2	6	4·2
Eskdalemuir	p	b or bc	r or d	S or RS	49	32	32	0·5	2	5·0
Valencia (Cahire'n)	c	c	bc	p	53	46	44	0·1	1	1·9
Baldonnel	r or d	r or d	p	c	53	43	39	0·2	0·1	6·0
Manchester (Hick. Pk)	r or d	r or d	r or d	r or d	51	43	39	3	2	*
Ross on Wye	c	oo	oo	oo	53	45	43	-	-	0·3
Falmouth	oo	8.0	r or d	r or d	52	43	41	0·2	2	0·2
Calshot (Hants)	oo	oo	oo	oo	53	45	43	-	0·1	0·1
Lympne (Folkestone)	r or d	r or d	b or bc	r or d	49	44	?	0·1	0·2	0·0
Aberdeen	b or bc	b or bc	c	c	45	31	25	TRACE	-	6·3
Howden	r or d	r or d	r or d	r or d	50	41	38	3	1	0·0
Cranwell (Lincs)	p	p	c	c	54	43	40	0·1	-	0·2
Felixstowe	oo	oo	b or bc	f or m	53	44	43	-	-	0·0
Shoeburyness	oo	oo	f or m	f or m	53	42	40	-	-	0·0
Benson	oo	c	oo	oo	49	44	41	-	-	*
S. Farnborough	oo	oo	c	c	53	42	39	TRACE	-	0·0
London (Kew Obsy.)	r or d	oo	c	c	53	47	43	TRACE	-	0·0
Croydon	r or d	oo	c	r or d	50	46	43	0·1	TRACE	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND FORCE.

Used only for surface observations.

No.	Limits of Velocity at about 10 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	64–74	28·5–32·6
12	Above 75	32·6 or above

LONDON. OBSERVATIONS.

24 HOURS ENDED 9H G.M.T. 5

	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)	o	od	o. o d	54	46	42	-	0·0	77	82
City (Bunhill Row)	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James's Park)	*	*	c	54	47	41	-	0·1	74	79
Regent's Pk (Astronomical Obs.)	+	+	+	+	+	*	+	0·0	+	+
Camden Sq. (British Rainfall)	c	c	*	54	46	42	-	*	74	81
Kensington Palace	o	o. c	*	54	46	43	-	*	71 (18h)	86
Hampstead Observatory	*	*	*	51	44	40	-	0·0	*	84

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.

5 & 6 MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.34	12.5	5.36
	6.32	12.5	5.34
Greenwich	6.40	12.12	5.44
	6.38	12.12	5.46
Wick	7.0	12.24	5.48
	6.57	12.24	5.58
Valencia	7.22	12.23	6.24
	7.20	12.23	6.26

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

Exposure from 4 h. 19 m. 43 s. to 5 h. 5 m. 45 s.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	11	0	0	20	3
δ Ursae Minoris	11	0	0	15	2

NOTES ON THE WEATHER OF YESTERDAY.

Rain in slight or moderate amounts fell in most localities and snow was again reported at most of the Scottish Stations. The highest measurement was 10mm at Malin Head. Little sunshine was recorded except in Scotland, where Banff had 6.7 hours and Aberdeen 6.3 hours. Temperature was low in Scotland, Wick registering a night minimum of 20°F.

* 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. 8.24654 ......Sunday...6th....March.....1921.

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

13H. G.M.T. ..5th..

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1004.6	-5	ENE	1	rr	35	97	3	1500	St	10	-	10	*
Eskdalemuir	1005.9	-4	-	0	ff o	36	97	5	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1004.9	-2	S	3	r0+	48	92	7	800	St	10	-	10	*
Baldonnel	1005.9	-3	SSW	4	co	50	75	8	1500	St.Cu	8	A.St	10	*
Manchester (Alex. Pk.)	1008.8	-3	SW	3	co/r	50	75	9	1500	Nb	10	-	10	*
Ross on Wye	1010.3	-4	W	3	co+	49	75	5	2500	Nb	10	-	10	*
Falmouth	1011.2	-4	SSW	3	co	50	75	8	-	St.Cu	10	-	10	*
Calshot (Hants)	1013.0	-3	SSW	4	co/r	47	85	8	1500	St.Cu	10	-	10	*
Lympne (Folkestone)	1013.7	-3	SW	5	d0	45	92	9	800	St	10	-	-	*
Aberdeen	1008.7	-4	SE	4	rs0 rs0	34	97	6	1500	Nb	10	-	10	*
Howden	1008.5	-4	SW	3	co/r	50	85	6	2500	St	6	A.St	10	*
Cranwell (Lincs)	1010.6	-3	SW	4	co	51	~~92~~ 85	7	2500	St.Cu	9	-	9	*
Felixstowe	1013.4	-2	SSW	3	o	47	92	6	~~St~~	St.Cu	10	~~Cu~~	10	*
Shoeburyness	1012.4	-3	SW	2	co+	50	75	7	4,000	St.Cu	6	A.Cu	10	*
Benson	1011.7	-3	SSW	2	co	50	75	7	4000	St	10	-	10	*
S. Farnborough	1012.1	-4	SSW	5	co	51	85	8	1,500	Nb	6	A.St	9	*
London (Kew Obsy.)	1012.1	-3	S	3	co	52	75	6	2500	Cu	8	A.St	10	*
Croydon	1012.7	-3	SSW	3	co/r	49	85	8	1500	St.Cu	10	-	10	*

18H. G.M.T. OF ..5th..

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1001.3	-3	-	0	rr	36	97	3	1500	St	10	-	-	*
Eskdalemuir	1001.7	-3	SW	4	d0d0	43	97	2	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1000.3	-1	-	0	r-	45	92	7	800	St	4	A.St	10	3
Baldonnel	1002.9	-4	SSW	4	co-	48	85	9	4,000	St.Cu	5	A.St	9	*
Manchester (Alex. Pk.)	1005.8	-3	SW	3	d0	48	85	6	1500	St	10	-	10	*
Ross on Wye	1007.5	-3	WSW	3	co/r	46	92	8	1,500	Nb	9	A.St	10	*
Falmouth	1007.4	-5	SSW	3	r0	45	92	7	-	Nb	9	-	9	*
Calshot (Hants)	1009.0	-2	SSW	3	co	46	86	8	2500	St.Cu	10	-	10	0
Lympne (Folkestone)	1011.4	-2	SW	4	cor	44	92	9	1,500	St	9	A.St	10	*
Aberdeen	1002.9	-6	E	5	rs rs	36	97	6	1500	Nb	10	-	-	4
Howden	1005.8	-1	SSW	3	co/r	~~[illegible]~~ 47	85	5	2500	St	7	A.St	10	*
Cranwell (Lincs)	1007.7	-3	SSW	2	co	48	85	8	2,500	St.Cu	~~10~~ 6	-	~~10~~ 6	*
Felixstowe	1011.2	0	SSW	3	co	45	92	7	2500	St.Cu	7	A.St	10	3
Shoeburyness	1010.0	-2	SW	1	co-	45	85	6	4000	St.Cu	7	-	7	*
Benson	1009.0	-2	SSW	4	co	46	92	7	4000	St	10	-	10	*
S. Farnborough	1009.7	-3	S	2	co/r	46	85	7	4000	Cu.Nb	7	A.St	8	*
London (Kew Obsy.)	1009.5	-2	SSW	3	co	48	85	6	4,000	St.Cu	7	A.St	10	*
Croydon	1010.5	-3	SSW	3	co/r	45	85	7	800	St	8	A.St	10	*

1H. G.M.T. OF ..6th..

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1001.0	0	-	0	d0 d0	36	97	4	1500	Nb	10	-	10	*
Eskdalemuir	999.8	0	W	3	r0+	43	92	4	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1004.4	0	WNW	4	bcm	44	*	*	*	*	*	*	*	5
Baldonnel	1002.4	0	-	0	r0 r0	44	97	4	800	St	10	-	10	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1005.1	-2	SSW	2	b	43	92	4	-	St	3	.	3	*
Calshot (Hants)	1006.6	-3	S	1	b	42	92	4	-	-	-	.	.	*
Lympne (Folkestone)	1007.2	-3	SW	3	b	40	97	8	-	-	-	-	.	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1002.3	-2	S	4	d0	44	92	5	800	Nb	6	A.St	10	*
Cranwell (Lincs)	1005.4	-2	SW	3	d0+	44	97	8	1500	Nb	10	-	10	*
Felixstowe	1006.2	-3	SSW	3	co-	45	92	6	4000	St.Cu	4	-	4	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1006.9	-3	*	*	*	41	*	*	*	*	*	*	*	*
Croydon	1007.6	-4	S	3	ff b	40	97	4	-	-	-	Ci	2	*

7H. G.M.T. OF ..6th..

Stations	Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Wind Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1005.2	+3	-	0	cov	36	85	9	1500	St.Cu	5	-	8	*
Eskdalemuir	1003.3	+5	NNE	3	co	35	85	4	1500	St.Cu	6	A.Cu	8	*
Valencia (Cahirc'n)	1011.0	+4	N	5	bc	44	65	8	4000	Cu	3	-	3	3
Baldonnel	1007.0	+8	N	3	bc	39	85	8	1500	St.Cu	2	A.St	4	*
Manchester (Alex. Pk.)	1002.0	-1	SSW	3	d0	43	92	4	1500	St	3	A.St	10	*
Ross on Wye	1003.6	-1	SW	2	co-	42	92	4	4000	St.Cu	6	Ci	8	*
Falmouth	1004.1	0	WSW	3	pr0	41	97	8	-	Nb	8	-	8	*
Calshot (Hants)	1004.8	-2	-	0	f0+	34	97	2	4000	St.Cu	4	-	4	0
Lympne (Folkestone)	1005.0	-2	SW	3	br	40	97	8	-	-	-	A.St	4	*
Aberdeen	1004.3	+4	NW	3	rs0	34	97	4	1500	Nb	10	-	10	1
Howden	1001.4	0	SW	1	co	41	97	5	2500	St	4	A.St	10	*
Cranwell (Lincs)	1003.1	-2	SW	3	co/r	42	97	8	1500	St	5	A.Cu	10X	*
Felixstowe	1006.2	-1	-	0	bc	36	92	~~4~~ 8	1500	Nb	10	Ci.St	4	1
Shoeburyness	1004.9	-1	WSW	1	bcm	35	85	5	2700	Cu	4	Ci	5	*
Benson	1004.5	-2	S	2	bc	38	97	6	-	Cu	4	-	4	*
S. Farnborough	1004.0	-1	S	1	fo-	32	94	2	800	St	10	-	10	*
London (M.O. at 1H.)	1005.1	0	-	0	ff o	31	97	1	75	St	10	-	10	*
Croydon	1006.0	0	S	2	f b	38	97	2	-	-	-	Ci	1	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18H. G.M.T. of 5th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Wind Force 0-12	Weather	7H. G.M.T. of 6th: 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. 6th: Rainfall mm. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (5th)
Lerwick	1006.3	32	NNE	3	s0	1005.7	+2	29	-1	N	5	-	ss	4	0.1	0.3	?	?	b or bc	s or rs	s or rs	[illegible]
Stornoway	1003.1	38	E	3	co+	1013.1	+4	30	-5	N	4	.	bc/s	4	-	1	39	28	c	c	p	0.0
Castlebay (Barrals)	1002.0	39	N	4	co	1013.3	+5	31	-5	N	5	.	s4	5	6	.	39	30	s or rs	oo	s or rs	0.1
Malin Head	999.5	46	WSW	2	co-	1008.2	+4	38	-7	NNW	4	.	co	5	1	1	41	33	b	b	c	0.0
Blacksod Point	1002.2	47	NW	2	bc+	1010.4	+8	43	-5	N	4	-	co/f	4	0.6	0.1	51	40	r or d	b or bc	c	*
Roche's Point	1004.2	46	SW	2	co/r	1008.1	+7	45	-3	N	4	.	co-	0	1	0.2	51	43	b	b	o-o	*
Birr Castle	1002.0	47	SW	2	r+	1008.5	*	37	-7	W	2	.	bc-	*	2	2	53	32	c	b. or bc	r or d	0.4
Donaghadee	1002.5	47	SW	2	co	1006.3	+5	41	-3	NNE	4	.	co-	6	-	4	51	40	c	oo	c	*
Liverpool (Bidston)	1005.3	47	SW	2	cov	1001.5	-1	43	-1	SSW	2	.	co	1	-	.	50 50	43	c	oo	oo	0.0
Holyhead	1003.7	47	SSW	5	co	1003.0	+3	43	-4	N	6	.	co/r	6	-	3	~~47~~	42	oo	c	r or d	0.5
Pembroke (St. Ann's Head)	1006.3	46	SW	4	pr0	1003.1	+1	45	-2	SW	3	.	pr0	4	0.6	0.6	48	44	oo	b	b	0.6
Scilly (St. Mary's)	1007.8	48	SSW	3	bc+	1005.0	-1	46	-1	NW	5	.	pr0	5	1	3	51	44	b	b	p	1.7
Jersey (St. Aubin)	1010.3	48	S	3	co+	1005.9	0	45	-1	SW	2	.	bc	5	-		51	39	c	b or bc	b or bc	3.5
Portland Bill	1009.0	48	WSW	4	co	1005.0	0	47	0	SW	3	.	bc	*	-	-	49	45	oo	oo	b or bc	*
Dungeness	1011.9	45	SW	2	co	1004.8	-2	40	-6	-	0	.	bc	1	-	-	48	40	c	c	b or bc	*
Wick	1004.0	36	ESE	4	rs0 rs.	1007.5	+8	29	+7	E	6	.	s.	4	3	5	39	28	oo	s or rs	s or rs	*
Nairn	1002.0	34	ENE	2	o	1008.8	*	32	+1	N	6	.	o	5	2	4	34	30	bc oc	s prs c.o.	[illegible]	0.0
Leith	1000.4	40	NW	1	o	1003.6	+2	38	+4	N	2	NW	c	3	19		41	34	rfr	[illegible]	[illegible]	*
Tynemouth	1003.0	48	SW	2	fo-	1000.9	+1	39	-1	NNW	3	.	r0 f0	2	0.6	1	49	39	r or d	oo	r or d	*
Spurn Head	1006.6	48	SW	3	bc	1002.0	-2	42	-2	SW	4	.	bc	4	3	TR	50	45	c	c	p	*
Yarmouth (Gorleston)	1009.2	48	SW	4	co+	~~1009.7~~ 1004.7	-1	37	-6	SW	3	.	bc+	0	-	-	52	37	c	c	b or bc	0.0
Clacton-on-Sea	1010.1	45	SSW	3	co	1004.4	0	42	-4	W	1	.	co-	0	-	-	47	40	c	c	c	0.5
Nottingham	1006.7	49	SW	2	co	1002.8	*	43	-2	SSW	2	.	co-	x	-	1	51	42	r or d	oo	b	1.0

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

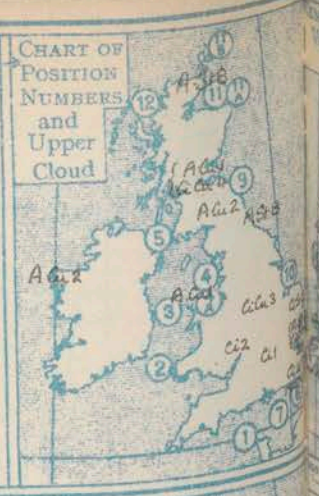
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 6.3.1921

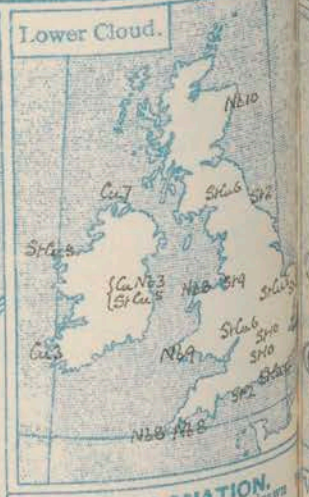
Districts.	Weather, Cloud and Precipitation. (inland.	Visibility.	Sea.
1. S.E. England	Fair, local mist or fog	Var.	Slight
2. E. England	Fair	Indiff.	"
3. E. Midlands	Fair to dull	Fair	---
4. W. Midlands	Cloudy	"	---
5. S.W. England	Dull, showery	Good	Mod.
6. South Wales	Dull, showery	"	"
7. North Wales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

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
5	5th	0815	46	46
3	5th	—	48	48
1	5th	1232	49	51
6	5th	1500	47	46
2	6th	0310	49	45
4	6th	0300	47	47
8	6th	0450	45	46
49	6th	0575	44	45



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



EXPLANATION.
BAROMETER.—Isobars are drawn 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

In the rear of a depression moving Eastward over Great Britain the wind will become Northerly generally, with a lower temperature.

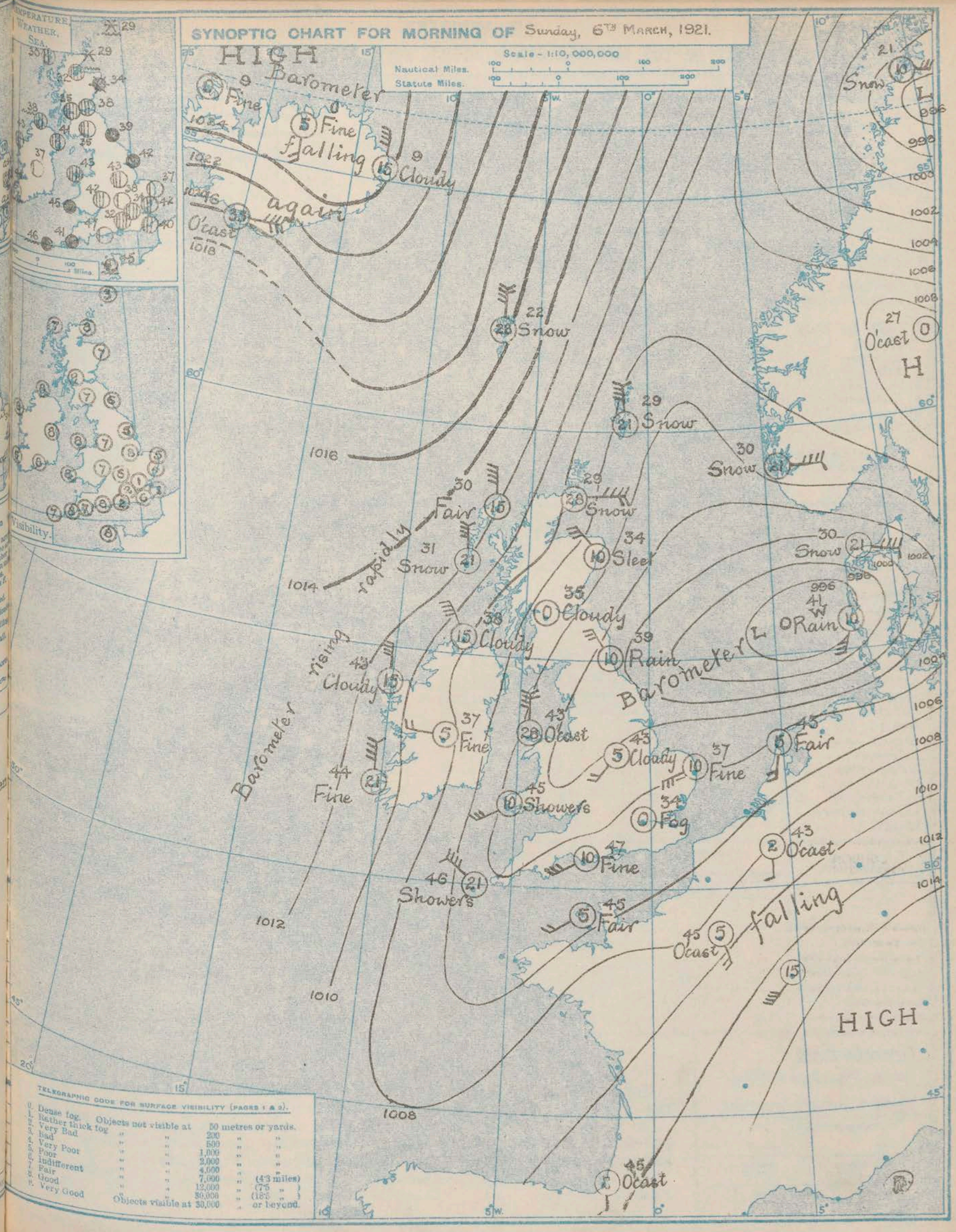
Showers of sleet and snow are probable in the North and of rain or hail in the South.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 6th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind veering to N. & N.W., freshening; dull, some showers of rain or hail, sleet locally then improving. Visibility indifferent to good, colder. Frost at night.	Winds between N.E. & N.W. Temperature low.
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	Wind mainly North, backing later, moderate or fresh; dull, some snow and sleet, improving temporarily later. Visibility fair to good. Cold, frost at night.	
19. S.E. Ireland 20. S.W. Ireland	Wind N.W., or N., moderate; variable sky, some showers. Visibility fair or good. Colder.	

F.S.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.00

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


SYNOPTIC CHART FOR MORNING OF Sunday, 6TH MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
Barometer falling again
Fine
Fine
Cloudy
O'cast
Snow
Snow
Snow
Snow
Sleet
Fair
Snow
Cloudy
Cloudy
Rain
Rain
Barometer
Cloudy
Fine
O'cast
Cloudy
Fine
Fine
Fog
Fine
Showers
Showers
Fine
Fair
Fair
O'cast
O'cast
O'cast
Snow
Snow
Snow
Fine
Barometer rising rapidly
Barometer falling
HIGH
L
L
H
Temperature
Weather.
Sea.
Visibility.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very 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 " " 30,000 " (18·5 ")
9. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 60 — Sunday 6th March 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 4th-5th	Rainfall. Day. 9h-18h. 5th	Sunshine. Sunrise to Sunset. 5th
Scotland.	Banff	of	rsd	35	28	-	4	0.0
England, N.E.	Harrogate	rpo	o	48	39	3	0.2	0.0
	Skegness	o.c	co	53	42	1	-	1.2
England, E.	Lowestoft	oco	o	50	42	-	-	0.1
	Felixstowe	oq	o	?	45	-	-	0.3
	Southend-on-Sea	o	o	50	44	-	-	0.2
England, S.E.	Tunbridge Wells	o	o	49	44	0.3	-	0.0
	Margate	o	o	51	45	-	-	0.0
	Ramsgate	*	*	48	44	-	-	0.0
	Folkestone							
	Hastings	oc	ov	45	45	-	-	0.0
	Eastbourne	o	o	50	45	0.1	-	0.0
	Brighton	od	o	?	?	-	-	0.0
	Worthing	o	o	50	46	-	-	0.1
	Portsmouth (S'thsea)	*	*	49	45	1	-	0.4
	Bournemouth	*	*	49	45	-	0.3	0.0

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 5th	Rainfall. Day. 9h-17h. 5th	Sunshine. Sunrise to Sunset. 5th
England, N.W.	Blackpool	r	o	48	42	5	-	0.0
	Southport	o	or o	50	41	4	0.2	0.0
Midlands.	Leamington Spa	o	o	51	42	-	-	0.0
	Bath	o.c bc b	o	52	45	0.3	-	1.5
Wales.	Rhyl	c	c	51	44	0.2	-	0.1
	Colwyn Bay	*	*	52	44	-	-	0.8
	Llandudno	*	*	51	46	-	-	0.3
	Aberystwyth	od c	c or	49	44	-	2	0.2
England, S.W.	Weymouth	od o	o	50	46	-	1	0.0
	Torquay	cp o	o	49	45	1	0.2	0.0
	Paignton	op o	o	50	42	-	Trace	0.0
	Penzance	c od	o c	49	44	2	1	0.1
	Bude	p	p	51	44	0.4	1	0.7
	Ilfracombe	b bc co	od	51	45	-	0.1	0.9

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 2nd	Weather. 13h-18h 2nd	Weather. 18h 2nd-1h 6th	Weather. 1h-7h 6th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-19h mm.	Rainfall.† Night. 19h-7h mm.	Sun. Hours.
Renfrew	s or rs	r or d	r or d	oo	36	34	29	12	8	0.0
Eskdalemuir	r or d	r or d	r or d	c	44	36	32	2	0	0.2
Valencia (Cahirc'n)	p	r or d	p	p	43	42	41	7	3	0.0
Baldonnel	co	oo	r or d	r or d	51	38	32	4	2	0.1
Manchester (Alexander Pk)	r or d	oo	oo	oo	50	48	41	0.1	0.5	*
Ross on Wye	c	p	p	p	50	41	35	Trace	Trace	0.6
Falmouth	r or d	r or d	b or bc	c	50	40	38	1	2	0.2
Calshot (Hants)	r or d	oo	b or bc	f or m	48	35	29	0.4	-	0.2
Lympne (Folkestone)	r or d	oo	oo	b or bc	47	36	2	Trace	-	0.0
Aberdeen	s or rs	s or rs	r or d	r or d	39	31	23	12	5	0.0
Howden	oo	p	r or d	oo	52	41	36	0.2	Trace	0.1
Cranwell (Lincs)	oo	oo	r or d	r or d	52	41	28	-	0.5	1.1
Felixstowe	f or m	oo	c	f or m	49	35	29	-	-	0.3
Shoeburyness	c	c	b or bc	b or bc	52	31	23	-	-	0.1
Benson	oo	oo	c	c	51	35	26	-	-	*
S. Farnborough	c	r or d	f or m	f or m	51	31	26	0.1	-	0.5
London (Kew Obsy.)	oo	p	f or m	f or m	52	35	24	-	-	0.2
Croydon	p	r or d	oo	f or bc	50	36	31	0.2	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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 0·9
1	1– 3	0·9– 1·5
2	4– 7	1·6– 3·0
3	8–12	3·1– 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

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	o	35	33	25	-	0.2	84	83
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*				*				
Regent's Park (Primrose Cons.)	*	*	*	*	*		*	1.8	*	*
Camden Sq. (British Rainfall)	oc	c. bc. c	*	33	34	28	-	*	94	92
Kensington Palace	o	o	*	32	25	28	-	*	83 (18h)	90
Hampstead Observatory	*	*	*	44	31	27	-	0.0	*	92

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 March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·52 / 6·54	12·0 / 12·4	5·34 / 5·36
Greenwich	6·38 / 6·38	12·02 / 12·1	5·47 / 5·49
Wick	6·09 / 6·04	12·24 / 12·25	5·51 / 5·53
Valencia	7·10 / 7·12	12·32 / 12·32	5·53 / 5·53

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

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

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

NOTES ON THE WEATHER OF YESTERDAY.

Temperature remained below 35° in some Scottish localities but exceeded 50° in some parts of England and Ireland.

Snow and sleet fell in the North; 20 mm at Renfrew, 19 mm at Leith and 15 mm at Aberdeen. Some rain, generally slight, was experienced at several Southern & Western stations.

Scarcely any bright sunshine was recorded except 3.5 hours at Jersey.

* 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. 21655 Monday 7th March 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 6th														**18H. G.M.T. of 6th**													
Renfrew	1012.6	+4	N	3	co	37	65	8	1950	Sr Cu	9	-	9		1017.9	+7	NNE	2	bc-	33	65	8	2500	Cu	1	-	1	*
Eskdalemuir	1009.4	+6	NNE	6	co	34	65	8	2500	Cu	7	-	7	*	1014.9	+8	NNE	5	co	31	85	8	4000	StCu	5	a St	6	*
Valencia (Cahirc'n)	1016.8	+6	NNE	5	co	42	75	8	2500	Sr	7	-	9	÷	1019.6	+5	N	5	co	42	65	8	2500	StCu	8	-	8	4
Baldonnel	1012.1	+3	NNW	4	co+	41	65	8	2500	Sr Cu	7	-	7	*	1016.5	+7	N	4	co+	37	75	8	4000	StCu	6	a St	7	*
Manchester (Alex. Pk)	1005.4	+5	NE	3	d₀ d₀	42	85	5	800	Sr	3	A Sr	10	÷	1011.3	+5	NNE	4	co-	40	55	7	800	St	4	-	6	x
Ross on Wye	1004.4	0	N	3	br₀	47	75	7	2500	Nb	10	-	10	*	1010.1	+5	NE	3	co/r	41	75	6	1500	St	6	-	10	*
Falmouth	1006.8	+3	NNW	5	pr₀	45	85	6*	-	Nb	9	-	9	*	1010.6	+4	NNW	6	pr₀	42	65	6	-	CuNb	6	a Cu	7	*
Calshot (Hants)	1004.9	0	SSW	4	co/r	50	85	8	4000	Sr Cu	7	-	7	÷	1005.4	+2	NW	6	co/r	44	92	7	1500	StCu	10	-	10	0
Lympne (Folkestone)	1004.6	-1	WSW	5	co+	49	65	8	2500	Sr Cu	9	-	9	*	1005.7	+2	WSW	3	co	44	92	8	800	StCu	5	-	9	*
Aberdeen	1011.2	+5	N	4	co/r	33	94	5	1500	Nb	10	-	10	÷	1015.8	+5	NNW	3	bc/s	32	75	8	2500	CuNb	1	-	-	4
Howden	1004.5	+7	N	6	r₀ r₀	41	85	7	1500	Nb	10	-	10	*	1009.6	+7	N	5	co-	37	92	8	4000	St	4	StCu	6	*
Cranwell (Lincs)	1004.1	+17	N	4	R	41	92	6	800	Nb	10	-	10	÷	1009.2	+7	N	4	co/s	38	92	8	1500	Nb	10	-	10	x
Felixstowe	1004.5	-2	WNW	3	co+	51	65	7	5950	Sr Cu	6	A Sr	7	*	1016.3	+3	N	6	T₀+	41	92	8	1500	Nb	10	-	10	*
Shoeburyness	1003.5	0	WSW	3	bc	53	65	7	5950	Cu	4	-	4	*	1005.3	+1	NNE	6	co+	42	85	7	2500	StCu	6	Ci	7	*
Benson	1003.8	0	SW	3	bc-	53	65	7	4000	Cu	6	-	6	*	1006.9	+4	NNE	5	co/r	40	85	7	2500	St	10	-	-	*
S. Farnborough	1004.1	0	W	2	co+	52	65	7	3,000	Sr Cu	10	-	10	*	1006.7	+4	NNE	4	T₀+	41	92	6	450	Nb	10	-	10	*
London (Kew Obsy.)	1004.1	-2	W	3	co+	50	65	8	4000	Cu	5	A Cu	6	*	1007.2	+7	NNE	3	rr	39	85	5	1500	Nb	8	a St	10	*
Croydon	1004.7	-1	WSW	3	bc-	53	65	8	4000	Cu	3	Ci	4	*	1007.1	+6	N	5	RR	41	92	5	400	Nb	10	-	10	*
	1H. G.M.T. of 7th														**7H. G.M.T. of 7th**													
Renfrew	1022.1	+3	NW	1	bc	27	75	8	-	-	-	-	-	÷	1024.1	+2	-	0	bc	23	92	3	-	-	-	Ci St	4	÷
Eskdalemuir	1021.6	+3	N	3	bc	21	94	6	-	-	-	-	-	x	1024.0	+3	-	0	bcv	21	97	9	-	-	-	Ci	2	*
Valencia (Cahirc'n)	1023.0	+4	NNW	4	bc	35	*	*	*	*	*	*	*	4	1024.6	+2	ENE	2	bc	29	85	8	-	-	-	A Cu	1	0
Baldonnel	1021.9	+5	W	2	bc+	29	75	6	-	-	-	A Sr	2	*	1024.5	+2	WSW	1	bcv	24	92	9	-	-	-	A St	3	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.8	+5	NNW	2	bc	28	85	5	-	-	-	A Sr	2	÷
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.6	+5	SE	1	bc-	31	85	8	-	-	-	Ci Cu	1	*
Falmouth	1016.8	+5	N	4	bc-	39	85	8	-	-	-	-	-	x	1021.4	+7	NNE	2	bc	35	85	7	-	Sr	4	A Cu	6	*
Calshot (Hants)	1014.0	+7	N	4	bc-	39	92	8	2050	Sr Cu	5	-	5	÷	1020.4	+8	N	3	co	38	85	7	2000	Sr Cu	8	-	8	0
Lympne (Folkestone)	1012.7	+6	N	6	bc/r	37	92	8	1500	Sr	6	-	6	*	1018.5	+7	N	5	co-	34	92	8	1500	Sr Cu	8	-	8	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	x	1022.3	+2	W	2	bc/s	26	65	7	-	-	-	-	-	0
Howden	1016.9	+5	NNW	2	bc/r	34	85	7	2500	Sr	5	A Sr	6	*	1021.9	+4	N	4	co+	30	85	7	4000	Sr Cu	4	Ci Cu	7	*
Cranwell (Lincs)	1016.5	+6	N	3	d₀	35	97	8	1500	Nb	10	-	10	*	1021.8	+6	NNW	4	bc	29	97	8	2500	Sr Cu	1	A Cu	2	*
Felixstowe	1012.4	+6	N	4	bc/r	37	85	8	-	-	-	-	-	*	1019.6	+8	N	3	PH	35	92	8	2500	Cu Nb	7	-	7	2
Shoeburyness	*	*	*	*	*	*	*	x	*	*	*	*	x	*	1018.8	+5	N	2	bc/r	34	85	7	-	-	-	A Cu	1	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	x	*	1019.9	+5	N	4	co	35	85	7	-	Sr Cu	7	-	7	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.3	+6	NNE	3	co	36	92	8	1500	Sr Cu	10	-	10	*
London (M.O. at 1H.)	1013.6	+6	*	*	*	37	*	*	*	*	*	*	*	*	1020.2	+6	N	2	co-	36	85	6	2500	Cu	10	-	10	*
Croydon	1018.6	+4	N	5	co/r	37	85	7	2500	Sr Cu	6	A Sr	8	*	1020.1	+6	N	3	co+	36	92	6	800	St	10	-	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. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
	18H. G.M.T. of 6th					**7H. G.M.T. of 7th**									**24 HOURS ENDED 7H. 7th**							**6th**
Lerwick	1012.1	28	WNW	4	bc-	1020.0	+2	30	+1	-	0	-	co/s	0	0.4	-	32	26	s or bc	S or RS	s or rs	* ÷
Stornoway	1020.2	33	N	3	co+	1020.4	-2	32	+2	SW	1	-	bc-	1	0.3	-	35	30	p	p	b or bc	6.1
Castlebay (Barra Is)	1020.8	34	NNE	3	bc+	1021.2	0	37	+6	SE	4	-	co	3	0.1	-	36	31	S or RS	b or bc	b or bc	8.5
Malin Head	1017.8	37	N	4	S₀	1021.7	0	31	-7	SSE	1	-	bcv	0	0.4	-	38	30	p	p	b or bc	3.2
Blacksod Point	1018.1	39	NW	4	h₀ (T₀)	1021.1	-1	38	-5	SSE	2	-	bc-	0	0.4	-	44	36	p	h or hr	b or bc	*
Roche's Point	1017.4	40	NNW	4	bc-	1024.2	+3	32	-11	N	1	-	bc-	0	-	0.1	46	22	c	b or bc	b or bc	*
Birr Castle	1017.2	36	N	3	bc-	1024.2	*	23	-14	N	2	-	bc-	*	-	-	41	23	c	c	b or bc	?
Donaghadee	1015.3	38	N	4	bc-	1024.2	+3	28	-13	W	1	-	bc+	0	-	-	42	25	S or RS	S or RS	b or bc	*
Liverpool (Bidston)	1011.7	38	N	4	co-	1023.8	+2	29	-14	NNE	1	-	bc/f	0	2	-	43	29	r or d	c	b or bc	0.0
Holyhead	1013.7	40	NNE	7	co/r	1024.0	+2	36	-7	ENE	4	-	bcv	4	0.6	-	45	30	p	p	b or bc	3.5
Pembroke (St. Ann's Head)	1011.9	44	NNE	5	co	1023.5	+3	35	-10	NE	2	-	bcv	3	3				p	p	b or bc	4.4
Scilly (St. Mary's)	1011.7	44	N	5	co	1021.4	+4	42	-4	NE	3	-	bc-	5	0.4	2	48	39	p	c	p	2.4
Jersey (St. Aubin)	1006.5	48	W	4	bc/r	1017.5	+3	43	-2	NE	5	-	co/r	3	0.2	3	53	42	r or d	r or d	r or d	6.0
Portland Bill	1005.7	48	NNW	5	bc	1019.6	+5	34	-8	NNE	6	-	bc	6	-	-	57	36	b or bc	c	b or bc	*
Dungeness	1004.7	46	SW	4	co+	1017.4	+5	37	-3	NNE	3	-	co-	4	-	0.6	52	37	b or bc	c	c	*
Wick	1016.8	29	N	4	co	1020.7	+1	25	-1	W	1	-	co+	1	1	-	33	24	S or RS	c	c	*
Nairn	1018.0	31	N	2	c	1022.6	*	20	-12	-	0	-	bc	1		1	34	19	q s/ bc	bc.c	c bc+	4.2
Leith																						*
Tynemouth	1010.9	39	NNE	6	S+	1021.5	+5	30	-9	NW	3	-	co/s	4	1	0.5	41	30	p	p	h or hr	*
Spurn Head	1007.6	42	N	6	co/r	1020.0	+4	38	-4	N	5	-	?bc/s	4	2	2	47	33	p	p	s or RS	*
Yarmouth (Gorleston)	1005.1	40	N	5	TS-	1017.8	+5	39	+2	NE	5	-	co+	3	3	0.1	54	36	b or bc	S or RS	p	5.5
Clacton-on-Sea	1005.0	44	NNW	4	co	1018.3	+6	36	-7	NNW	4	-	bc/r	0	-	5	53	34	b or bc	b or bc	r or d	3.8
Nottingham	1009.0	39	N	3	T₀	1022.1	*	32	-11	N	3	-	bc-	2	2	0.2	48	32	c	p	?	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.

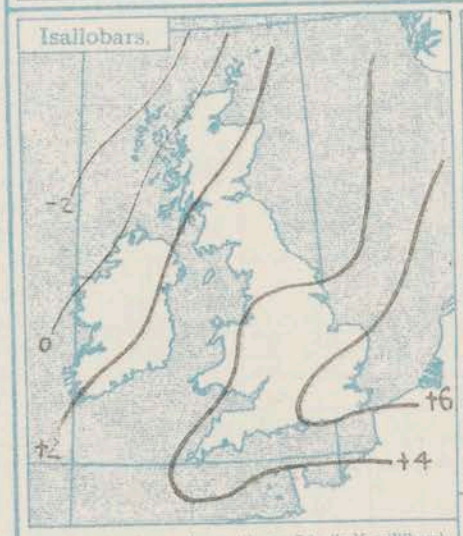
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 7.3.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudy	Fair	Mod
2. E. England	Fair, local hail showers	"	Slight
3. E. Midlands	Fair to cloudy	"	---
4. W. Midlands	Fair	"	---
5. S.W. England	Fair	"	Mod.
6. South Wales	Fair	V.Good	Slight
7. North Wales	Fair	"	Mod.
8. N.W. England	Fair to fine (except locally	Good SLIGHT	
9. N. Midlands	Fine	Poor	---
10. N.E. England	Fine to cloudy	Fair	Mod.
11. E. Scotland	Fine to fair	"	Calm
12. S.W. Scotland	Fair	V.Good	"
13. Isle of Man	Fair	Good	Slight
14. N.&N.W.Scotland	Cloudy	"	"
15. Hebrides	Fair to dull	Fair	"
16. Orkneys and Shetlands	Cloudy	Indiff.	Calm
17. N.W. Ireland	Fair	Good	"
18. N.E. Ireland	Fair	"	"
19. S.E. Ireland	Fair to fine	Fair	"
20. S.W. Ireland	Fair to fine	Good	"

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
3	6th	1945	47	42



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 ½ clouded. overcast sky. sky ½ clouded. rain falling. snow. sleet. hail. fog. mist. T thunder. K thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

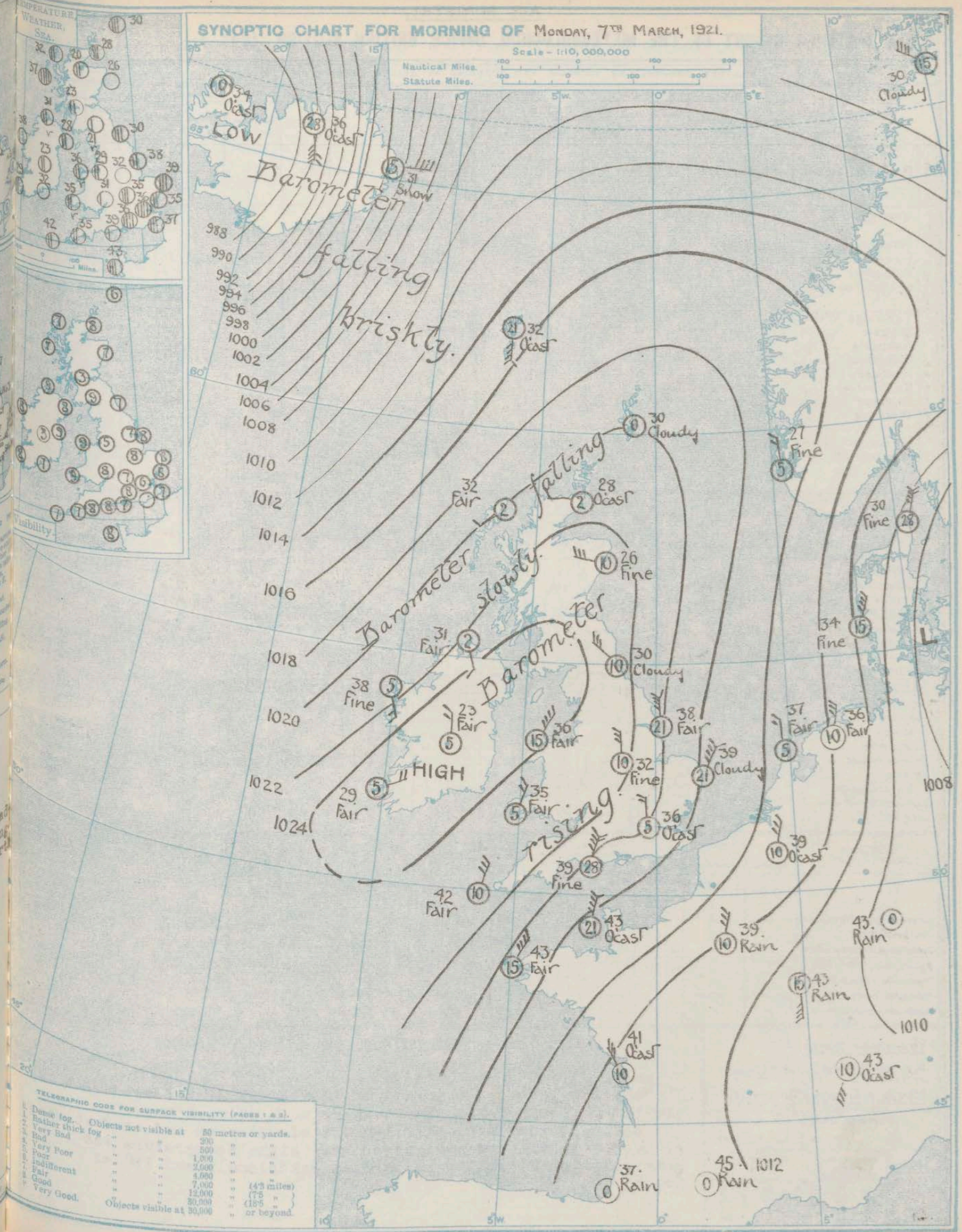
The anticyclone lying over Ireland will move Eastward and cause fine weather during Monday over the greater part of the Kingdom.

A new depression over Iceland is likely, however, to cause an early renewal of rainy weather in the North-West districts, and there is a probability of unsettled conditions becoming general again by Tuesday evening or Wednesday.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday 7th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind N. to N.E., light or moderate, becoming indefinite; mainly fine; visibility fair to good; cold, night frosts.	Unsettled conditions spreading over the Kingdom from the North West.
7. North Wales 8. N.W. England 9. N. Midlands	Wind light variable, becoming S. to S.W. later, fine on Monday, less settled on Tuesday; visibility fair to good; cold, then milder again.	
10. N.E. England	As for 1 - 6	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man	As for 7 - 9	
14. N.&N.W.Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind S. to S.W., fresh or strong, reaching a gale in places; dull, some rain; visibility fair; milder.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S. to S.W. moderate or fresh; cloudy to dull, probably rain on Tuesday; visibility fair; milder.	

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

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 1030


SYNOPTIC CHART FOR MORNING OF MONDAY, 7TH MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility
LOW
Barometer falling briskly.
Barometer falling slowly.
Barometer rising.
HIGH
L
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 12,000 " (7·5 ")
Good " " 30,000 " (18·6 ")
Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 66...

MONDAY 7TH MARCH 1921

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	os.c	bc h.b	37	32	3	0.2	2.2
England, N.E.	Harrogate	op	o.c.o	46	36	2	0.3	0.4
	Skegness	bc or	ro.c.o	50	39	0.1	4	0.9
England, E.	Lowestoft ...	bc o	c.opr	53	37	-	2	5.0
	Felixstowe	cm.	oy	53	36	-	-	4.3
	Southend-on-Sea...	c.bc	c.bcgr	53	36	-	1	6.5
England, S.E.	Tunbridge Wells	b bc	bc.o.p	53	33	-	1	5.0
	Margate	c.b.	bc c.b	54	41	-	-	5.4
	Ramsgate	*	*	53	40	-	-	6.1
	Folkestone	b.bc	bc.b	52	36	-	-	4.8
	Hastings	b.	bc.op	53	40	trace	1	4.7
	Eastbourne... ...	b.sc.	c.or.o	52	35	-	?	5.5
	Brighton	b	r.bc	51	37	-	1	5.2
	Worthing	b	bc	52	34	-	-	7.3
	Portsmouth (S'thsea)	*	*	57	34	-	-	7.0
	Bournemouth ...	*	*	54	38	-	4	5.1
	*	*						

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 5TH-6TH	Rainfall. Day. 9h-17h. 6TH	Sunshine. Sunrise to Sunset 6TH
England, N.W.	Blackpool	ro	c	43	38	2	-	1.0
	Southport	r.o.c	c.bc.c	43	39	3	0.2	2.1
Midlands.	Leamington Spa...	c.bu	or	48	36	-	4	1.7
	Bath	c bc.b	bc.c or	53	37	-	3	2.8
Wales.	Rhyl	cp.	c					
	Colwyn Bay ...	x	x	44	39	2	-	1.0
	Llandudno	c.	c.bc	48	40	1	-	2.9
	Aberystwyth ...	r o c.	b.bc	45	42	2	-	4.5
England, S.W.	Weymouth	c.bc.	bc.pc.o	56	41	1	0.4	5.3
	Torquay	bc r p o	bc.c.bc	53	41	1	3	5.2
	Paignton	bc	bcpht	55	37	5		4.2
	Penzance	o.o.b	o.c.bc	48	44	2	1	7.4
	Bude	p.	p.	49	41	1	0.2	3.7
	Ilfracombe	bc.o.	bc.b.bc	48	44	0.1	-	3.5

SUMMARIES FOR LAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 6TH	Weather. 13h-18h. 6TH	Weather. 18h 6TH-1h. 7TH	Weather. 1h-7h. 7TH	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	c	c	b or bc	b or bc	39	22	11	-	-	2.9
Eskdalemuir	c	S or RS.	b or bc	b or bc	34	20	14	10.1	-	5.0
Valencia (Cahire'n) ...	c	c	b or bc	b or bc	45	29	24	0.4	-	2.0
Baldonnel	c	p	b or bc	f or bc	41	20	15	tr	-	6.6
MANCHESTER (ALEX. PARK)	r or d	c	b or bc	b or bc	45	28	14	1	-	*
Ross on Wye... ...	c	p	b or bc	b or bc	51	31	26	0.3	-	1.0
Falmouth	p	b. or bc	b or bc	b or bc	48	35	30	1	-	3.6
Calshot (Hants)... ...	p	p	p	~~f or bc~~ c	53	36	32	0.3	1	6.4
Lympne (Folkestone) ...	b or bc	oo.	r or d	c	51	34	?	trace	2	5.4
Aberdeen	S or RS	p.	p	p	35	26	21	3	0.2	2.8
Howden	r or d	c	r or d	b or bc	46	29	24	0.5	0.2	1.1
Cranwell (Lincs)	c	p.	p	c	49	28	24	4	0.1	2.0
Felixstowe	b or bc	h or hr	r or d	c	53	34	31	trace	2	4.5
Shoeburyness	f or m	c	r or d	r or d	53	32	30	-	3	5.1
Benson	c	h or hr	c	c	54	34	30	4	1	*
S. Farnborough ...	c	oo	r or d	r or d	54	35	32	0.4	3	3.4
London (Kew Obsy.) ...	f or m	r or b	o.o	o.o	53	36	32	4	2	4.6
Croydon	c	r or b	r or d	o.o	54	35	32	2	5	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0-5; co = cloud 6-10.

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

SEA DISTURBANCE.

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

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

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)	c	c.o.c	c	56	34	31	4	6.2	54	85
City (Bunhill Row)	*	*	*	*	*	*	*	4.4	*	*
Westminster (St. James's Park)	*	*	bc.r.bc	56	36	31	5	3.6	63	89
BOTANIC GDNS (REGENTS PARK)	*	*	*	*	*	*	*	4.4	*	*
Camden Sq. (British Rainfall)	*	*	*	66	34	30	8	*	4	84
Kensington Palace	bc	bc.or.	*	56	35	30	5	*	94 (18h)	82
Hampstead Observatory ...	*	*	*	53	33	*	6	?	*	91

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.

5TH to 8TH MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.29 / 6.16	12.14 / 12.14	5.41 / 5.41
Greenwich	6.33 / 6.23	12.11 / 12.11	5.42 / 5.42
Wick ...	6.34 / 6.01	12.28 / 12.29	5.24 / 5.27
Valencia ...	7.17 / 7.5	12.52 / 12.53	5.42 / 5.42

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

Exposure from 6TH 18h. 42m. to 7TH 4h. 42m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	45	6	50	36
δ Ursæ Minoris	10	45	3	53	36

NOTES ON THE WEATHER OF YESTERDAY.

Rain, sleet or snow fell in nearly all districts, but the total precipitation was nowhere much above 5 mm.

Most stations had several hours of sunshine and at Castlebay as much as 8.5 hours were recorded. Night temperature was generally low 20° being reached at Eskdalemuir and 19° at Nairn.

* 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. 21656 Tuesday 8th March 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 7th														**18H. G.M.T. of 7th**													
Renfrew	1022.2	-3	SSW	3	co⊕	37	55	7	2500	St.Cu	2	Ci.St	8	*	1016.9	-7	SSW	4	co	37	75	6	4,000	St.Cu	6	A.St	10	*
Eskdalemuir	1021.7	-2	SW	4	co+	34	75	8	-	-	-	Ci.St	9	*	1019.2	-4	SSW	4	co-	32	92	8	2500	Sc	10	-	10	*
Valencia (Cahirc'n)	1024.2	-1	S	4	co+	44	65	9	4,000	St	9	-	9	*	1021.1	-2	S	4	co+	46	85	8	1500	St.Cu	7	A.St	10	3
Baldonnel	1023.1	-2	SSW	3	bc+	45	55	~~4~~ 8	2500	St	3	A.St	8 4	*	1020.1	-4	SW	4	co+	42	65	8	7200	St.Cu	5	Ci.St	10	*
Manchester (Alex. Pk.)	1023.8	0	W	2	bc	40	65	5	-	-	-	-	0	*	1021.9	-2	S	1	co+	34	75	4	-	-	-	Ci	6	*
Ross on Wye	1023.8	0	N	2	bc	44	55	9	5,700	Cu	1	Ci	3	*	1022.8	0	SW	2	co+	39	65	8	4,000	St.Cu	6	A.Cu	7	*
Falmouth	1025.1	+2	ESE	2	bc	43	65	8	-	Cu	6	-	6	*	1024.8	0	SSW	2	bc+	41	75	8	-	Cu	1	A.St	2	*
Calshot (Hants) *	1023.3	+1	NNE	3	bc-	43	75	8	2500	St.Cu	5	-	5	*	1024.2	+2	N	2	bc-	42	65	8	4000	St.Cu	2	Ci	3	0
Lympne (Folkestone)	1021.7	+2	NNE	5	bcv	40	75	9	1500	Cu	5	-	5	*	1023.1	+2	NNE	3	co	38	75	9	2500	St.Cu	9	-	9	*
Aberdeen	1021.5	-2	SSW	3	bc+	36	55	8	-	-	-	Ci.St	2	*	1016.0	-6	SSW	3	co+	35	75	6	4,000	St.Cu	6	A.St	10	0
Howden	1023.9	+~~2~~ 1	~~NNE~~ N	1	co+	~~39~~ 40	55	8	2,500	St.Cu	9	-	9	*	1022.4	-2	-	0	co+	36	75	5	2500	St.Cu	10	-	10	*
Cranwell (Lincs)	1023.8	0	NNE	1	cov	39	75	9	4000	St.Cu	7	-	7	*	1023.7	0	SW	1	co-	35	92	8	4,000	St	2	Ci.St	7	*
Felixstowe	1022.5	+2	NNE	3	bc-	43	65	8	4,000	Cu	3	-	3	*	1023.7	+2	NNE	3	bc	38	75	8	4,000	St.Cu	9	-	9	2
Shoeburyness	1022.3	+1	NE	3	co+	40	75	7	4,000	St.Cu	6	A.Cu	8	*	1023.1	+1	N	1	co/r	40	75	6	4,000	Cu	7	-	7	*
Benson	1022.4	0	NE	2	co	43	65	8	-	Cu	6	-	6	*	1023.9	+1	NNE	1	bc-	39	65	6	-	-	-	-	0	*
S. Farnborough	1023.0	+2	NNE	2	bc	41	75	8	2500	St.Cu	6	-	6	*	1024.0	+2	NNW	1	bc-	37	75	7	2500	Cu	1	Ci.St	2	*
London (Kew Obsy.)	1023.0	+1	N	2	bc-	41	65	7	4,000	Cu	5	-	5	*	1024.0	+1	N	1	bc-	41	65	5	4,000	St.Cu	2	Ci	5	*
Croydon	1023.0	+1	NNE	4	co-	41	65	5	1,500	Cu	6	-	6	*	1024.3	+3	-	0	co	39	75	5	4000	St.Cu	8	Ci	10	*
	1H. G.M.T. of 8th														**7H. G.M.T. of 8th**													
Renfrew	1014.5	-1	SW	1	co/r	38	92	5	1500	St	10	-	10	*	1014.9	+1	.	0	bc	34	92	5	-	-	-	A.St	4	*
Eskdalemuir	1015.8	-2	SW	4	co/s	36	97	5	75	Nb	10	~~A.St~~	~~9~~	*	1015.9	+1	SSE	1	co-	34	97	6	1500	St	10	-	10	*
Valencia (Cahirc'n)	1020.6	0	SSW	2	co/r	45	*	*	*	*	*	*	*	*	1019.9	0	W	2	bc/r	43	85	8	1500	St.Cu	4	-	4	/
Baldonnel	1019.0	0	S	5	or₀	41	92	6	1500	St	10	-	-	*	1018.5	0	SW	1	co	39	92	8	1000	St	6	A.St	10	*
Manchester (Alex. Pk.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.7	-2	~~SSW~~ S	3	d₀d₀	38	97	4	1500	St	10	-	-	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.3	-1	SW	4	co+	41	85	7	1500	Nb	7	A.St	9	*
Falmouth	1024.9	-1	SW	3	co+	38	85	8	-	St.Cu	8	-	8	*	1022.6	-2	SW	2	co	43	85	8	-	St	10	-	10	*
Calshot (Hants)	1024.5	0	-	0	f.f.b	35	85	7	-	-	-	-	-	*	1022.7	-2	WSW	2	co+	35	85	8	5750	St.Cu	9	-	9	0
Lympne (Folkestone)	1024.1	0	-	0	bcv	31	85	9	-	-	-	-	-	*	1022.9	-1	W	2	co+	34	85	7	2500	St.Cu	5	Ci	8	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.3	+1	WSW	1	bc/s	32	85	6	-	-	-	-	-	0
Howden	1020.4	-2	SSW	3	ss	34	95	5	2000	Nb	10	-	10	*	1017.6	-1	S	1	co	35	92	6	2500	St	4	A.St	10	*
Cranwell (Lincs)	1022.4	-1	SW	1	bc	33	85	8	4000	St.Cu	3	-	3	*	1019.8	0	WSW	3	co/s	37	97	7	4000	St.Cu	5	A.St	10	*
Felixstowe	1025.2	0	SW	1	bc	37	85	8	-	-	-	-	-	*	1022.4	-2	SW	3	co	37	85	7	4,000	St.Cu	10	-	10	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.4	-2	WSW	2	fb	36	75	5	5250	Cu	5	A.St	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.9	-2	SW	3	co	36	85	7	-	St	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.6	-1	SW	1	co	35	92	7	4,000	St.Cu	7	A.St	10	*
London (M.O. at 1H.)	1024.1	0	*	*	*	36	*	*	*	*	*	*	*	*	1022.2	-1	SW	2	co/f	35	85	6	2500	St.Cu	4	A.St	10	*
Croydon	1024.4	-1	S	2	bc	34	75	6	~~7500~~	~~Cu.Nb~~	~~7~~	~~A.St~~	~~7~~	*	1022.7	-1	SSW	3	co+	35	85	7	4,000	St.Cu	10	-	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	Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	Rainfall mm. † Day	Night	Max. Day °F	Min. Night °F	Weather Morning	Afternoon	Night	Sunshine Hours
	18H. G.M.T. of 7th					**7H. G.M.T. of 8th**									**24 HOURS ENDED 7H. 8th**							**7th**
Lerwick	1012.9	37	S	5	co	1007.1	+3	37	+4	WSW	4	.	bc/s	3	0.2	4	38	30	c	oo	r or d, s or b	*
Stornoway	1007.2	36	S	7	r+	1009.4	-1	35	+3	S	3	.	bc+	2	2	3	39	34	oo	r or d	oo. b or bc	0.3
Castlebay (Barra Is)	1008.9	44	WNW	5	d+	1011.5	-1	43	+6	SW	3	.	co	3	1	1	44	39	oo	r or d	b or bc	0.0
Malin Head	1012.0	38	SSE	4	co+	1014.2	0	39	+8	SSW	2	.	co+	3	Tr	1	40	33	c	c	oo. c	1.8
Blacksod Point	1016.1	45	SW	3	rr	1015.0	-3	43	+5	W	1	.	bc	1	0.24	0.1	45	37	c	r or d	b or bc. c	*
Roche's Point	1023.5	44	SW	3	co+	1020.4	0	43	+11	W	2	.	co-	0	-	0.3	47	42	b or bc	c	p	*
Birr Castle	1019.1	44	S	1	co+	1018.2	*	37	+14	SW	1	.	co	*	-	0.2	46	37	c	c	?	6.4
Donaghadee	1018.5	41	W	2	bc+	1016.7	0	36	+8	WSW	2	.	bc+	0	-	0.2	43	36	b or bc	b or bc	b or bc	*
Liverpool (Bidston)	1022.2	36	W	1	bcv	1017.6	0	41	+12	WSW	3	.	bc/r	1	-	0.6	42	29	b or bc	b or bc	r or d	7.8
Holyhead	1020.6	41	SW	2	bc	1017.5	0	44	+8	W	3	.	co-	1	-	2	43	40	b or bc	b or bc	r or d. c	5.1
Pembroke (St. Ann's Head)	1024.3	41	SSW	2	bc-	1019.1	-3	46	+11	SW	4	.	d₀d₀	4	-	12	46	35	b or bc	b or bc	oo. p	9.4
Scilly (St. Mary's)	1025.1	47	-	0	bc	1022.6	-1	47	+5	W	4	.	co+	4	-	-	50	45	b or bc	b or bc	b or bc. c	8.5
Jersey (St. Aubin)	1023.6	44	N	3	co+	1024.7	0	36	-8	W	2	.	bc	0	-	-	47	34	b or bc	b or bc	b or bc	6.3
Portland Bill	1022.4	42	NW	4	bc	1022.4	-2	42	+3	NW	4	.	bc+	3	-	-	46	35	b or bc	b or bc	b or bc. c	*
Dungeness	1022.8	41	N	3	co+	1022.6	-1	38	+1	N	2	.	bc+	3	-	-	45	30	b or bc	c	b or bc. c	*
Wick	1010.1	35	SSW	6	co	1009.9	+1	34	+6	WSW	2	.	bc+	3	-	1	35	31	c	oo	oo. b or bc	*
Nairn	1011.1	35	W	2	c	1012.1	*	32	+12	-	0	.	bc	1	-	-	35	20	bcc	cg	cg. bcx	2.4
Leith	1016.6	36	SW	1	o	1014.0	0	35	?	WSW	1	.	bc	1	-	-	40	35	fg. bc. b	bc. c. o	bc. fg	*
Tynemouth	1020.3	38	WSW	2	co	1015.1	0	40	+10	W	1	.	co	1	-	TR	41	34	c	c	s or b. c	*
Spurn Head	1021.7	38	NE	1	bcv	1017.6	-2	34	-1	SW	4	.	bc-	4	-	-	42	38	b. or bc	c	b or bc. oo	*
Yarmouth (Gorleston)	1022.1	39	NNE	3	bc-	1021.0	-1	33	-6	SW	3	.	co+	0	-	-	42	30	c	b or bc	b or bc	4.0
Clacton-on-Sea	1023.1	41	NNW	2	bc	1022.0	-1	38	+3	WSW	3	.	co+	0	-	-	43	34	c	c	o	5.2
Nottingham	1023.2	38	S	1	fb	1019.1	*	37	+5	SW	2	.	co+	*	-	-	42	31	c	c	c	4.7

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

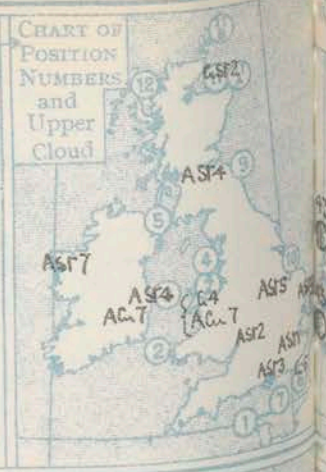
M.O. FORM 2370.

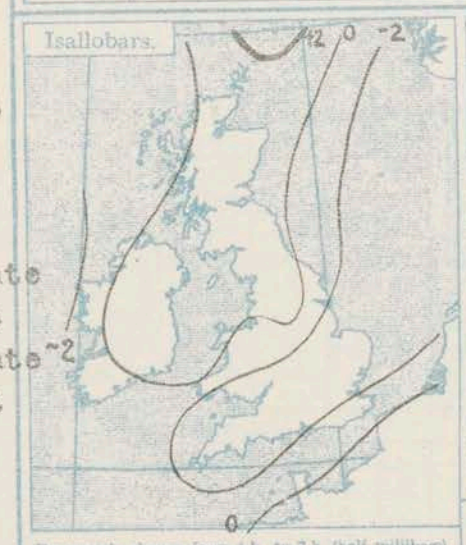
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 6.5.1921

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

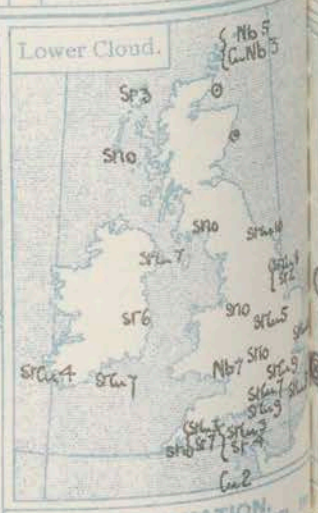
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
5	7th	0805	46	35
3	"	1015	47	41
6	"	1450	47	47
1	8th	0210	47	46
7	"	0235	46	44
4A	"	0430	45	44





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



EXPLANATION.

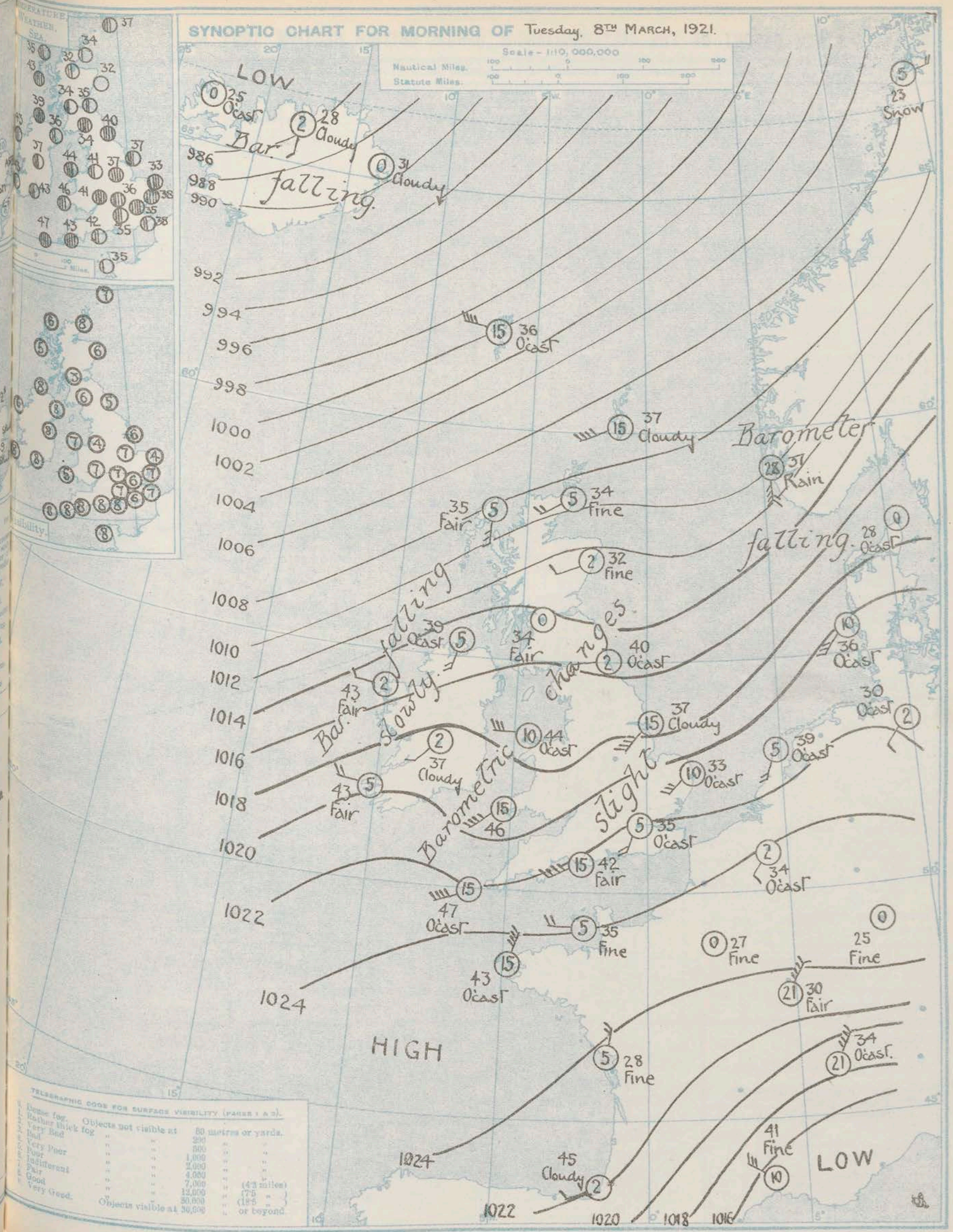
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS.—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

GENERAL INFERENCE from observations received up to 9h

A shallow trough of low pressure extending from the Northern North Sea to the Bristol Channel will cause some rain over England during Tuesday. Other secondaries are likely to follow and maintain unsettled weather for two or three days.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind S.W. or W., light to moderate; dull, some rain or drizzle on Tuesday, fairer temporarily on Wednesday; visibility fair; moderate temperature.	Unsettled for a day or two with winds from a Westerly point.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind SW. or W., light to moderate; fair at first, probably some rain later; visibility fair; moderate temperature.	
9. N. Midlands 10. N.E. England	Same as for 1 - 3.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Same as for 4 - 8.	
14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Wind between S and W, moderate or fresh; cloudy, some rain or drizzle; visibility fair; moderate temperature.	
19. S.E. Ireland 20. S.W. Ireland	Wind Southwesterly, light or moderate; cloudy some rain or drizzle; visibility fair; moderate temperature.	

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


SYNOPTIC CHART FOR MORNING OF Tuesday, 8TH MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar. falling.
Barometer falling.
Bar. slowly falling
Barometric changes slight
HIGH
LOW
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Poor " " 1,000 " "
Indifferent " " 2,000 " "
Fair " " 4,000 " "
Good " " 7,000 " (4·3 miles)
Very Good. " " 12,000 " (7·5 ")
" " 30,000 " (18·6 ")
Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 67

TUESDAY 8TH MARCH 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
England, Scotland.	Banff	b.bc	c.o	36	28	-	-	4.7
England, N.E.	Harrogate	bc.b.	b.bc	42	27	0.1	-	5.3
	Skegness	oco	o bcb	46	33	1	-	3.7
England, E.	Lowestoft	bc c.p.	bc	43	34	1	-	6.4
	Felixstowe	bcm	o	44	33	2	-	5.5
	Southend-on-Sea	bc c	bc co	45	32	3	-	6.4
England, S.E.	Tunbridge Wells	c bc	c bc	47	32	12	-	4.0
	Margate	bc.b	bc c	42	40	5	-	5.1
	Ramsgate	*	*	43	36	6	-	6.1
	Folkestone	bcade	bcc	45	38	1	-	6.1
	Hastings	b bc	bc c	46	34	1	-	7.1
	Eastbourne	b.bc	c	46	34	0.4	-	6.6
	Brighton	bc	bc	46	35	3	-	7.2
	Worthing	bc	bc	46	36	1	-	6.6
	Portsmouth (S'thsea)	*	*	47	36	1	-	8.0
	Bournemouth	*	*	44	36	-	-	8.4
		*	*					
England, N.W.	Blackpool	b bc	c	42	26	-	-	8.9
	Southport	b	b bc b	?	27	-	-	7.7
Midlands.	Leamington Spa	bc	bc	43	30	-	-	7.3
	Bath	b	b.bc	45	35	1	-	8.1
Wales.	Rhyl	b	bc	42	37	-	-	9.0
	Colwyn Bay	*	*	44	29	-	-	9.0
	Llandudno	b bc	bc	44	29	-	-	8.7
	Aberystwyth	c b.b	b.bc	43	32	0.3	-	?
England, S.W.	Weymouth	c bc	bc b	48	35	-	-	5.5
	Torquay	bc bc	bc b	45	37	Trace	-	6.6
	Paignton	bc c	c bc	45	35	-	-	5.3
	Penzance	b bc	bc b	47	36	0.3	-	10.0
	Bude	x bc b	b	46	32	-	-	9.8
	Ilfracombe	c bc b	b	46	38	-	-	8.9

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 7TH	Weather. 13h-18h. 7TH	Weather. 18h 7TH-1h 8TH	Weather. 1h-7h 8TH	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	f or m	oo	f or d	f or bc	38	34	4	-	3	2.6
Eskdalemuir	c	oo	f or RS	oo	35	32	30	-	3	1.8
Valencia (Cahire'a)	b. or bc	c	c	c	48	42	37	-	3	4.4
Baldonnel	b or bc	c	p	oo	45	37	35	-	0.8	3.1
Manchester (Alex) 7TH	b or bc	b or bc	f or d	f or d	41	30	20	-	1	4.
Ross on Wye	b or bc	b or bc	p	p	47	33	26	-	Trace	9.6
Falmouth	b or bc	b or bc	b or bc	oo	46	34	29	-	-	9.0
Calshot (Hants)	c	c	b or bc	f or m	46	32	25	-	-	5.2
Lympne (Folkestone)	c	c	b or bc	b or bc	45	30	*	-	-	6.7
Aberdeen	b or bc	c	s or RS	s or p	37	26	22	-	0.5	6.1
Howden	c	c	c	oo	44	31	24	-	0.1	6.2
Cranwell (Lincs)	c	c	b or bc	s or RS	42	29	25	-	0.1	6.2
Felixstowe	p	c	b or bc	c	44	34	26	-	*	6.0
Shoeburyness	c	c	b or bc	b or bc	45	28	18	0.1	*	3.6
Benson	c	b or bc	oo	oo	44	27	9	-	-	*
S. Farnborough	b or bc	c	c	c	45	25	20	-	Trace	4.5
London (Kew Obsy.)	b or bc	b or bc	b or bc	b or bc	44	31	19	-	-	5.3
Croydon	f or m	f or m	f or m	b or bc	43	31	24	-	-	.5

WEATHER. (p 1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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 0·9
1	1- 3	0·9- 1·5
2	4- 7	1·6- 3·0
3	8-12	3·1- 5·4
4	13-18	5·5- 8·0
5	19-24	8·1-10·7
6	25-31	10·8-13·9
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

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 8h G.M.T. 8TH							Yesterday.		To-day.
Greenwich (Royal Observatory)	c	c	c.b.o.m.x	45	27	24	-	5.1	55	80
City (Bunhill Row)	*	*	*	*	*	*	*	5.0	*	*
Westminster (St. James's Park)	*	*	bcm	41	29	25	-	4.4	53	76
Regents Park (Botanic Gdns)	+	+	+	+	+	*	+	4.7	+	+
Camden Sq. (British Rainfall)	c. bc	bc	*	46	31	24	-	*	56	79
Kensington Palace	bc.o.c	c	*	48	31	25	-	*	62 (lbs)	80
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.

8TH & 9TH MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.26 / 6.24	12.6 / 12.4	5.41 / 5.43
Greenwich	6.33 / 6.31	12.11 / 12.11	5.49 / 5.51
Wick	6.51 / 6.49	12.24 / 12.23	5.36 / 5.34
Valencia	7.16 / 7.13	12.22 / 12.22	6.30 / 6.32

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

Exposure from 7TH ..... h. ..... m. to 8TH ..... h. ..... m.

Star.	Duration of Exposure. h.	Duration of Exposure. m.	Duration of Record. h.	Duration of Record. m.	%
Polaris	10	45	9	26	97
δ Ursae Minoris	10	45	9	11	85

NOTES ON THE WEATHER OF YESTERDAY.

Except in the North-West and North, the day was fine with rather low temperature. Night frosts occurred in most localities, and day temperature was below 45° at the majority of stations. Sunshine was abundant nearly everywhere, Penzance registering as much as 10 hours. 12 mm of rain fell during the night 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 21,657 WEDNESDAY 9th MARCH 1921.

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

13h. G.M.T. 8th / 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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	1013.2	-3	SW	4	co	45	75	8	1500	St.Cu	7	A.Cu	9	*	1009.6	-4	SSW	4	r₀+	43	85	5	1500	Nb	10	-	-	*
Eskdalemuir	1014.3	-2	SW	4	co+	42	75	8	2,500	Cu	10	-	10	*	1012.5	-2	SSW	4	co	39	85	7	1500	St.Cu	10	-	10	*
Valencia (Cahirc'n)	1018.4	-2	SW	4	co+	50	65	9	2500	St.Cu	8	-	8	*	1016.1	-2	SSW	4	co+	48	85	8	1500	St.Cu	10	-	10	4
Baldonnel	1017.2	-2	SW	4	co	48	65	8	2500	Cu	7	Ci.St	8	*	1014.6	-2	SSW	4	co	47	75	8	1500	St.Cu	3	A.St	10	*
Manchester (Alex. Park)	1017.4	0	W	2	co/f	45	85	4	2500	St.Cu	10	·	10	*	1016.4	-1	W	2	co-	41	85	4	4,000	St.Cu	4	A.Cu	7	*
Ross on Wye	1018.6	-2	WSW	4	d₀	46	92	8	2,500	St.Cu	10	-	10	*	1017.9	-1	W	4	co+	47	65	9	2500	Cu	8	Ci	9	*
Falmouth	1021.7	-2	SW	5	co	52	75	8	-	St.Cu	8	-	8	*	1020.7	-1	W	2	d₀	47	97	5	-	Nb	10	-	10	*
Calshot (Hants)	1021.9	-1	SW	5	pr₀	48	75	7	4,000	St.Cu	10	-	10	*	1020.3	-1	SW	5	co+	47	85	6	4000	St.Cu	10	-	10	3
Lympne (Folkestone)	1021.7	-2	WSW	5	co	45	65	8	-	St.Cu	10	-	10	*	1020.5	-1	SW	5	d₀	43	92	8	800	St	10	-	10	*
Aberdeen	1012.2	-1	SW	3	bc+	44	65	8	-	-	-	Ci.St	2	*	1008.4	-4	SSW	3	co+	42	75	6	5,700	St.Cu	7	A.St	10	0
Howden	1016.9	-1	SW	3	co-	45	85	4	1500	St.Cu	9	-	9	*	1015.7	-1	WSW	3	co	41	85	5	4,000	St	5	A.St	9	*
Cranwell (Lincs)	1018.5	-1	WSW	2	d₀	44	97	6	800	Nb	10	-	10	*	1017.6	-1	W	1	co/r	42	97	4	1500	Cu	9	-	9	*
Felixstowe	1020.9	-2	SSW	3	co/r	45	75	6	2500	St	10	-	10	*	1019.4	-1	SW	3	r₀	45	85	6	2500	Nb	10	-	10	3
Shoeburyness	1021.0	-3	SW	2	co/f	48	65	6	5,700	St.Cu	2	Ci.St	7	*	1019.2	-1	SSW	2	co/r	46	75	6	4,000	St.Cu	4	A.Cu	7	*
Benson	1019.1	-3	SW	4	co	46	85	7	-	St.Cu	10	-	10	*	1019.1	-1	SW	4	co	45	92	6	1500	St	10	-	10	*
S. Farnborough	1021.4	0	WSW	3	r-	45	92	7	1500	Nb	10	-	10	*	1019.7	-1	WSW	4	d₀	45	97	7	800	Nb	10	-	10	*
London (Kew Obsy.)	1021.2	-2	WSW	3	d.d	46	85	6	1500	Nb	6	A.St	10	*	1019.2	-1	SW	3	co/r	47	85	8	1500	St.Cu	10	-	10	*
Croydon	1021.7	-1	SW	4	co	47	75	8	4,000	St.Cu	10	-	10	*	1019.7	-1	SW	4	co/r	46	85	7	1500	St	10	-	10	*

1h. G.M.T. of 9th / 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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	1006.5	-1	SSW	5	r₀r₀	45	85	5	1500	Nb	10	-	10	*	1003.3	-2	SSW	5	rr	45	92	5	1500	Nb	10	-	10	*
Eskdalemuir	1008.4	-3	SW	6	d₀	42	92	5	1500	Nb	10	-	10	*	1005.6	-1	SW	8	r₀r₀	42	97	6	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1011.8	-4	SSW	3	bc	47	*	*	*	*	*	*	*	*	1009.3	-2	SSW	5	co	49	85	8	2500	St.Cu	10	-	10	4
Baldonnel	1012.3	-3	S	6	co	46	85	6	-	-	-	A.St	6	*	1008.4	-2	SSW	5	co+	46	85	8	1500	St.Cu	7	A.St	10	*
Manchester (Alex. Park)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.4	-3	S	3	cov+	44	85	9	1500	St.Cu	8	A.Cu	9	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.4	0	WSW	3	co	46	85	7	2500	Nb	9	-	9	*
Falmouth	1020.1	-2	WNW	2	bc	44	97	7	·	St.Cu	5	-	5	*	1018.2	-2	SW	2	co	46	92	8	-	St.Cu	4	A.Cu	7	*
Calshot (Hants)	1019.9	0	WSW	3	bc/r	44	97	8	-	-	·	·	·	*	1018.7	0	SW	4	bc+	46	97	8	1500	St.Cu	5	-	5	0
Lympne (Folkestone)	1019.5	0	SW	3	co/r	43	97	6	800	St	10	·	10	*	1018.9	0	SW	4	bc/f	40	97	7	2500	St.Cu	3	Ci	4	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.2	-2	SSW	4	bc-	45	85	8	5750	St.Cu	4	-	4	0
Howden	1014.3	-2	WSW	3	co-	42	85	6	4000	St	9	-	9	*	1012.1	-2	S	3	co-	39	92	5	1500	St	6	A.St	9	*
Cranwell (Lincs)	1016.6	0	W	3	co/f	42	85	7	1500	St.Cu	6	-	6	*	1014.4	-1	SW	4	co	43	97	8	1500	St.Cu	10	-	10	*
Felixstowe	1018.6	-1	SW	3	co+	43	97	7	2500	St	7	·	7	*	1018.3	0	SW	3	co+	42	92	7	4000	St.Cu	10	-	10	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.0	0	SW	3	bc-	42	85	7	2250	Cu	3	A.Cu	6	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.6	0	SSW	3	co	41	85	7	-	St.Cu	9	-	9	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.7	0	SSW	2	co	42	92	7	1500	St	10	-	10	*
London (M.O. at 1h.)	1018.9	0	*	*	*	44	*	*	*	*	*	*	*	*	1017.8	0	SW	3	co	44	85	8	2500	St.Cu	9	-	9	*
Croydon	1019.7	0	SW	2	bc/r	44	97	7	1500	St	4	·	4	*	1018.9	-1	SW	4	co+	42	85	8	4000	St.Cu	5	A.Cu	8	*

STATIONS CONTRIBUTING REPORTS AT 7h. AND 18h.

18h. G.M.T. of 8th / 7h. G.M.T. of 9th / 24 HOURS ENDED 7h. 9th

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. † Day	Rainfall mm. † Night	Temp. Max. Day °F	Temp. Min. Night °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
Lerwick	1002.7	42	S	4	co+	995.7	0	43	+6	SW	4	·	co/r	3	-	5	44	35	b. or bc	oo	r or d. p	[illegible]
Stornoway	996.7	46	SW	6	rr	994.6	-2	42	+7	S	2	·	r₀r₀	1	4	7	46	35	p	r or d	c. r or d	0.2
Castlebay (Barra Is)	1002.1	47	SW	5	r+	995.4	-1	46	+5	W	3	·	rr	2	0.6	11	47	44	oo	r or d	r or d	0.2
Malin Head	1006.5	44	SSW	4	co+	999.1	-3	47	+8	SW	5	·	r₀	5	-	0.4	?44	44	c	oo	o-o	0.0
Blacksod Point	1009.1	48	SW	4	d₀+	1002.0	-7	49	+6	SW	7	-	r+	7	0.5	6	49	?	p	r or d	oo. r or d	*
Roche's Point	1018.0	48	WSW	3	co	1012.0	-3	49	+6	SW	4	-	co	3	-	-	50	47	oo	oo	o-o	*
Birr Castle	1014.6	47	SW	2	co+	1007.5	*	48	+11	S	3	·	co	*	-	·	48	45	c	c	c	1.1
Donaghadee	1012.9	44	SW	2	r₀	1006.3	-2	46	+10	SW	3	·	co	3	0.4	0.2	49	43	c	c	c	*
Liverpool (Bidston)	1016.1	43	W	2	cor	1011.2	-2	46	+5	SSW	2	-	cor	1	-	-	47	41	c	b or bc	o-o	1.1
Holyhead	1018.5	46	SW	5	co	1009.8	-2	48	+4	SSW	6	-	co	4	-	Tr.	50	45	c	c	c. r or d	2.8
Pembroke (St. Ann's Head)	1018.8	47	W	3	cov	1014.4	-2	48	+2	SW	5	·	co/r	6	1	0.3	49	45	c	p	c. p	3.3
Scilly (St. Mary's)	1021.0	49	W	3	bc-	1017.3	-3	48	+1	SSW	4	·	bc+	5	1	-	52	47	oo	p	c. b or bc	1.5
Jersey (St. Aubin)	1023.6	47	SW	3	co+	1020.9	0	47	+12	SW	2	·	co	0	-	-	49	45	b or bc	c	c	3.5
Portland Bill	1020.1	48	SW	6	co	1018.9	-1	47	+5	WSW	4	-	co+	4	-	1	49	45	c	oo	r or d. b or bc	*
Dungeness	1020.6	46	SW	5	co	1018.7	0	44	+6	SW	3	·	bc-	4	-	0.1	49	37	c	c	p. f or m	*
Wick	1001.5	41	SSW	5	co	996.0	-3	42	+8	-	0	·	rr	0	-	2	41	38	oo	oo	r or d	*
Nairn	1003.5	41	W	2	c	995.7	*	48	+16	WSW	5	·	cq	3	-	1	48	32	bcc	cq	cqp	2.0
Leith	1008.9	44	SSW	2	0	1002.0	-2	46	+10	WSW	2	·	8	1	2		48	35	bz	bc.c	cq. op	*
Tynemouth	1013.4	45	WSW	1	co	1007.8	-2	46	+6	WSW	3	·	co+	0	-	-	46	42	c	c	b or bc. c	*
Spurn Head	1015.6	44	SW	2	co/f	1012.3	-2	43	+6	SSW	4	·	bc-	3	-	·	48	35	c	f or m	oo. b or bc	*
Yarmouth (Gorleston)	1018.0	43	SW	4	co	1016.9	-1	38	+5	SW	3	·	bc+	0	0.3	-	45	33	s or rs	p	f or m. b or bc	0.0
Clacton-on-Sea	1018.5	45	SSW	3	co/r	1017.8	0	42	+4	SW	3	·	co	0	0.2	-	46	40	r or d	r or d	c	0.0
Nottingham	1016.9	44	SW	1	fb	1013.6	*	44	+7	SW	3	·	co+	*	1	-	45	38	r or d	oo	b or bc	0.4

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

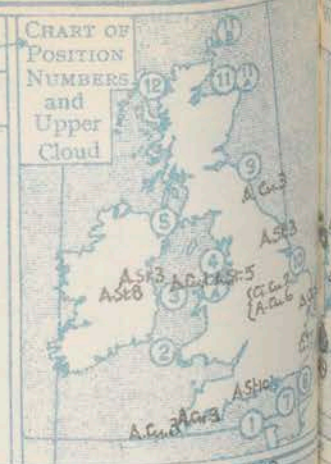
M.O. FORM 2370.

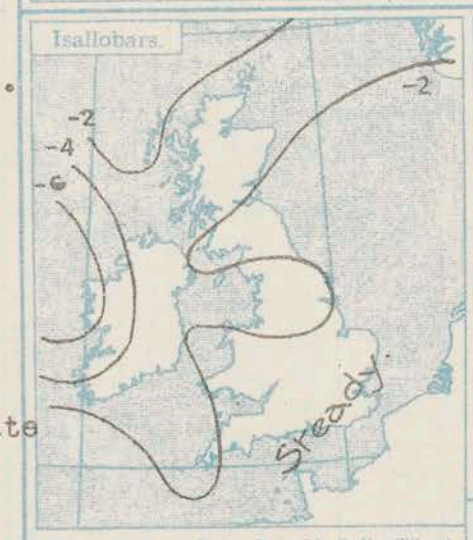
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 9.3.1921

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

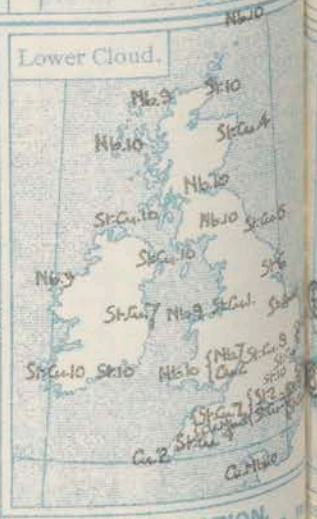
Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
5	8th	0818	44	42
3	"	0950	46	47
1	"	1230	50	50
8	"	1837	46	43
2	9	0220	49	48
7	"	0300	47	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. ℞ thunderstorm.
SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to 9h

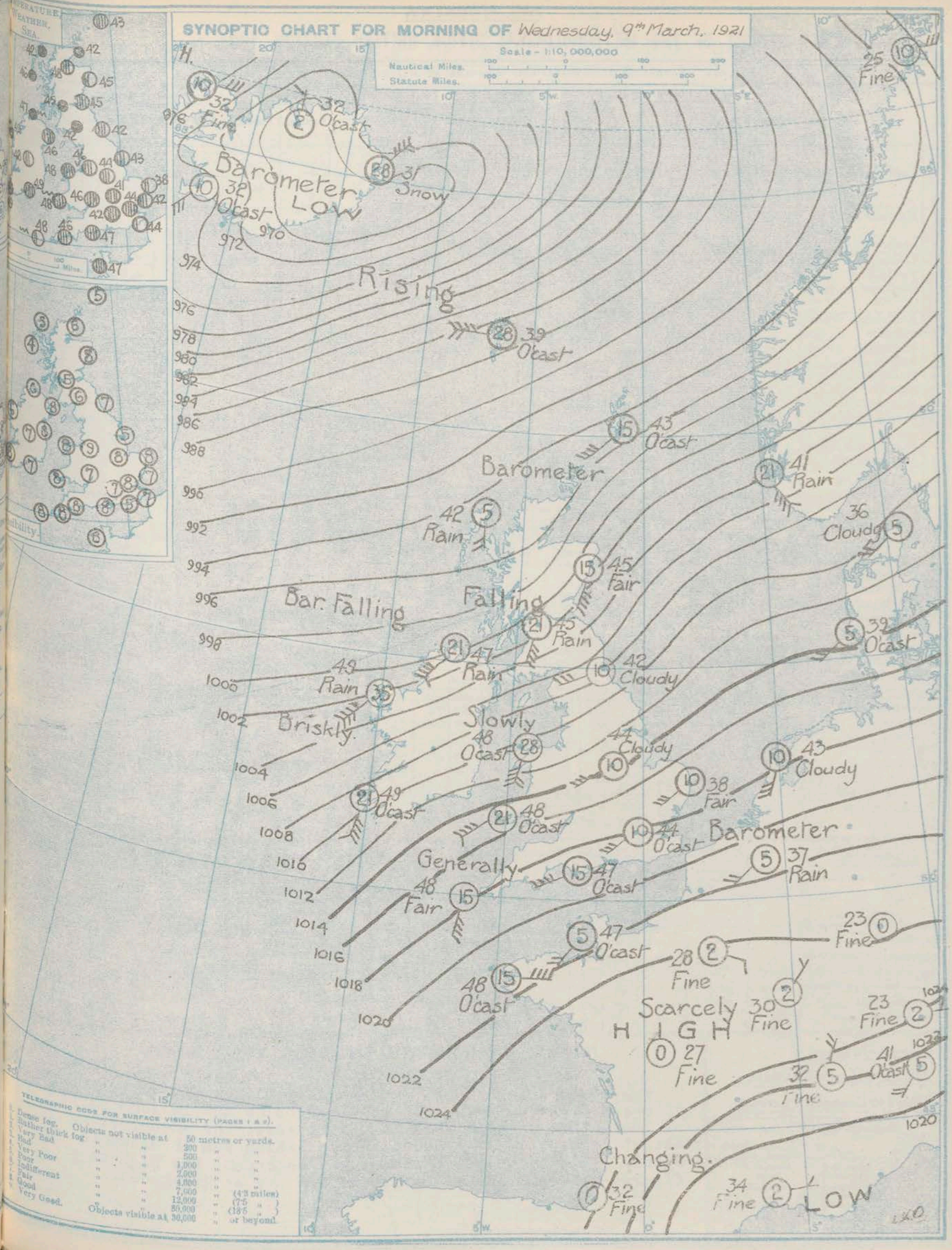
Depressions from the Atlantic passing over the British Isles or their vicinity will maintain SW or W. winds, with a rather high temperature, much cloud generally, and occasional rain or drizzle.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind mainly SW, light or moderate; cloudy or overcast, some drizzle or showers, brighter intervals. Visibility fair to good; mild.	Continuing rather mild, with winds between SW & W.
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	Wind South-Westerly, veering later, moderate or fresh, strong at times locally; much cloud. Some rain or drizzle; visibility indifferent to fair, mild.	

R.S.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 10.15

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


SYNOPTIC CHART FOR MORNING OF Wednesday, 9th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
H.
Barometer Low
Rising
Barometer
Bar. Falling
Falling
Briskly.
Slowly
Generally
Barometer
Scarcely
HIGH
Changing.
LOW
TEMPERATURE.
WEATHER.
SEA.
Visibility.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 12,000 " (7·5 ")
Good " " 30,000 " (18·6 ")
Very Good. " Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 68 ... { WEDNESDAY 9th March 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-18. 8th	Sunshine. Sunrise to Sunset. 8th
Scotland.	Banff	b bc	co	44	31	2	-	4.8
England, N.E.	Harrogate	b. bc b.	bcc bcb.	48	31	-	-	3.2
	Skegness	oco	od r m o	46	33	-	0.4	0.7
England, E.	Lowestoft ...	op	op	45	31	-	-	0.0
	Felixstowe	om	omd	47	31	-	1	0.2
	Southend-on-Sea...	o	cod	48	32	-	0.1	1.4
England, S.E.	Tunbridge Wells	o	co	48	27	-	-	0.2
	Margate	o	o	48	33	-	-	0.1
	Ramsgate	*	*	46	31	-	-	0.5
	Folkestone	oco	oco	47	32	-	-	1.0
	Hastings	oc	obcco	48	34	Trace	-	?
	Eastbourne... ...	oc	bcco	49	28	-	-	3.7
	Brighton	o	bco	48	29	-	-	1.8
	Worthing	o	co	50	28	-	-	1.8
	Portsmouth (S'thsea)	*	*	50	31	-	-	0.8
	Bournemouth ...	*	*	49	33	-	-	0.3
		*	*					
England, N.W.	Blackpool	c	o	49	36	1	-	5.0
	Southport	coc	cbcco	48	35	3	-	3.7
Midlands.	Leamington Spa...	o	cb	51	29	-	0.3	2.5
	Bath	opcbc	or bcb	50	29	+	1	1.7
Wales.	Rhyl	c	cbcc	49	35	1	-	0.9
	Colwyn Bay ...	*	*	48	37	2	-	1.1
	Llandudno	cb	c	49	41	1	-	0.0
	Aberystwyth ...	roc	o	49	38	4	-	2.0
England, S.W.	Weymouth	o	o	53	33	-	-	0.4
	Torquay	bc b bc	cod	52	34	-	-	1.8
	Paignton	bcc	cbcdpor	52	30	-	Trace	1.4
	Penzance	cpd	cpd r	52	37	-	2	0.4
	Bude	p	b	50	32	-	2	0.5
	Ilfracombe	op	pco	50	37	0.3	1	0.5

STATIONS.	Summaries for past 24 Hours. Weather. 7h-13h. 8th	13h-18h. 8th	18h-1h. 8th-9th	1h-7h. 9th	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	c	r or d	r or d	r or d	46	42	38	0.3	7	2.8
Eskdalemuir	c	oo	r or d	r or d	42	38	37	-	4	1.5
Valencia (Cahire'n) ...	b or bc	c	c	r or d	51	47	46	-	0.2	2.8
Baldonnel	b or bc	oo	oo	oo	48	44	40	-	-	2.3
Manchester. (Alex. Park)	p	c	c	c	47	37	28	0.1	-	4
Ross on Wye... ...	oo	oc	c	c	53	42	33	-	*	1.5
Falmouth	c	r or d	b or bc	p	52	40	35	1	1	1.2
Calshot (Hants)... ...	oo	r or d	p	b or bc	49	41	37	Trace	0.3	1.3
Lympne (Folkestone) ...	oo	oo	r or d	f or m	45	39 ~~34~~	+	Trace	0.6	0.3
Aberdeen	b or bc	c	c	c	45	31	36	-	-	5.7
Howden	f or m	oo	oo	oo	46	38	32	-	-	0.0
Cranwell (Lincs)	r or d	r or d	b or bc	c	45	34	33	1	-	0.9
Felixstowe	p	p	b or bc	f or m	47	~~36~~ 36	36	0.4	0.1	0.1
Shoeburyness	c	c	c	c	50	38	34	0.2	-	1.6
Benson	p	r or d	oo	oo	48	38	32	1	0.1	*
S. Farnborough ...	oo	r or d	r or d	r or d	49	35	29	0.4	0.1	0.5
London (Kew Obsy.) ...	oo	r or d	c	c	49	41	35	0.5	Trace	0.4
Croydon	oo	p	r or d	b or bc	49	41	34	Trace	0.1	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	28·5–32·5
12	Above 75	32·6 or above

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. 9th							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	or. c. oc	o. b. o	49	39	31	0.3	0.9	72	81
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	bc	49	40	34	0.4	0.1	75	76
Regents Park. (Botanic Gdns)	*	*	*	*	*	*	*	0.1	*	*
Camden Sq. (British Rainfall)	o. od	or. c	*	49	39	34	1	*	75	78
Kensington Palace	op	op. o	*	49	39	35	0.5	*	84 (18h)	80
Hampstead Observatory ...	*	*	*	46	35	*	1	0.0	*	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.

9th to 10th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.24	12.4	5.45
	6.22	12.4	5.45
Greenwich	6.31	12.11	5.51
	6.29	12.11	5.53
Wick ...	6.49	12.23	5.56
	6.47	12.23	5.59
Valencia ...	7.13	12.32	6.32
	7.11	12.32	6.34

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

Exposure from 9th ... 18h. ... 44m.
to 9th ... 5h. ... 28m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	45	6	15	63
δ Ursae Minoris	10	45	5	36	52

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 50° or slightly higher in several parts of England and Ireland, but remained below 45° in some parts of Scotland. Rain fell in most places, the amount being slight, except in some Scottish localities and at Blacksod Point. Little bright sunshine was recorded, the highest figures were 4.8 hrs at Banff and 5.0 hrs at Blackpool.

* 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. 21,658 THURSDAY 10TH MARCH 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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 9TH													
Renfrew	1003.1	0	SW	5	r+	47	92	5	1500	Nb	10	-	10	*
Eskdalemuir	1006.1	0	SW	6	co/r	44	92	6	1500	Sc	10	-	10	*
Valencia (Cahire'n)	1007.0	-2	S	5	co	51	85	7	1500	Sc	10	-	10	*
Baldonnel	1007.5	-2	SSW	6	co	51	75	8	1500	St.Cu	7	A.St	9	*
Manchester (Alex. Pk)	1011.4	-1	SW	4	co-	55	65	7	1500	St.Cu	9	-	9	*
Ross on Wye	1015.0	-1	SW	4	co	51	75	8	4,000	St.Cu	10	-	10	*
Falmouth	1016.4	-2	SW	4	co+	50	75	8	-	Cu Nb	7	A.St	10	*
Calshot (Hants)	1015.7	0	SW	4	co/r	49	85	8	2500	Sc.Cu	10	-	10	*
Lympne (Folkestone)	1018.7	-1	SW	5	dd	45	91	6	225	Nb	10	-	10	*
Aberdeen	999.6	-1	SW	5	co+	51	75	7	5,700	St.Cu	9	-	9	*
Howden	1010.0	-1	SW	4	co	55	65	6	1,500	St.Cu	6	A.St	9	*
Cranwell (Linc)	1013.4	-1	SW	5	co+	53	85	8	2500	St.Cu	9	-	9	*
Felixstowe	1017.8	-1	SSW	4	co+	49	85	7	4,000	St.Cu	9	-	9	*
Shoeburyness	1017.8	0	WSW	2	co+	51	75	7	4,000	St.Cu	6	A.Cu	9	*
Benson	1015.7	0	WSW	4	co	49	85	8	-	St.Cu	9	-	9	*
S. Farnborough	1017.9	-1	SW	4	do	50	85	8	1500	St.Cu	10	-	10	*
London (Kew Obsy.)	1017.3	+1	SW	3	do	51	75	8	1500	Nb	8	A.St	10	*
Croydon	1018.1	0	SW	4	do do	49	92	8	1500	St.Cu	10	-	10	*
	1H. G.M.T. OF 10TH													
Renfrew	1001.7	0	SSW	3	bc	47	92	5	1500	Nb	10	-	10	*
Eskdalemuir	1003.8	-1	SSW	7	r	43	94	5	750	Nb	10	-	10	*
Valencia (Cahire'n)	998.4	-5	SW	6	bc	48	*	*	*	*	*	*	*	*
Baldonnel	1003.3	-3	S	7	bc-	47	85	5	2500	St.Cu	3	-	3	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1010.2	-4	S	5	co	46	95	7	-	St.Cu	7	-	7	*
Calshot (Hants)	1014.5	-3	SE	3	bc	43	92	8	-	-	-	-	-	*
Lympne (Folkestone)	1015.5	-2	SW	2	bc	40	97	8	-	-	-	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1010.2	0	S	4	co	46	85	7	2500	St	6	A.St	9	*
Cranwell (Linc)	1021.8	0	SSW	4	co	45	97	8	1500	St	10	-	10	*
Felixstowe	1016.2	-2	SSW	3	bc	42	97	8	-	-	-	-	-	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)			*	*	*	40	*	*	*	*	*	*	*	*
Croydon	1015.4	-3	S	1	bc	41	97	7		-	-	Cc	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.	Total. Amt. 0-10.	Sea 0-9.
	7H. G.M.T. OF 10TH													
Renfrew	1001.9	-2	SSW	6	r, r,	42	94	5	1500	Nb	10	-	10	*
Eskdalemuir	992.9	-7	SSE	5	PR	45	85	8	1000	Nb	7	A.St	10	5
Valencia (Cahire'n)	999.1	-4	S	6	do	48	73	8	2500	St.Cu	10	-	10	*
Baldonnel	1006.6	-3	S	4	co-	44	85	6	2000	St.Cu	5	A.Cu	8	*
Manchester (Alex Pk)	1007.4	-3	S	3	bc-	40	87	7	-	-	-	-	-	*
Ross on Wye	1004.8	-5	S	5	fo	46	85	7	-	St	10	-	10	*
Falmouth	1009.9	-4	SE	4	bc	44	85	8	-	-	-	-	-	0
Calshot (Hants)	1011.9	-1	SSE	3	bc	39	85	7	-	-	-	-	-	*
Lympne (Folkestone)	999.7	+1	S	4	co	45	92	8	1500	St	9	-	9	0
Aberdeen	1007.9	-2	S	4	co-	43	85	5	1500	St.Cu	5	A.St	8	*
Howden	1010.3	-2	S	4	bc+	36	94	6	5,500	St.Cu	7	A.St	2	*
Cranwell (Linc)	1013.6	-2	S	4	bc	42	92	7	-	-	-	-	-	3
Felixstowe	1012.5	-5	SE	2	bc	39	85	7	-	-	-	-	-	*
Shoeburyness	1008.7	-3	SE	4	bc	38	97	7	-	-	-	-	-	*
Benson	1010.9	-3	SSE	2	bc/f	38	97	6	-	-	-	-	-	*
S. Farnborough	1010.9	-3	SE	1	bc	38	92	6	-	-	-	-	-	*
London (M.O. at 1H.)	1011.8	-3	SSE	4	bc	40	85	7	-	-	-	-	-	*
Croydon														

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. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 9TH					7H. G.M.T. of 10TH									24 HOURS ENDED 7H. 10TH							9TH
Lerwick	996.4	41	SW	2	bc/r	995.6	-5	45	+2	S	3	-	bc/r	2	3	0.6	45	42	r or d	b	b	*
Stornoway	996.3	45	SW	2	co+	990.5	-1	46	+4	S	6	-	co/r	5	3	1.1	47	41	oo	oo	r or d	0.0
Castlebay (Barra Is)	996.9	46	SW	3	r+	992.4	-1	49	+2	S	5	-	co/r	6	2	1.0	48	43	r or d	oo	r or d	0.0
Malin Head	997.6	49	SW	4	co/r	993.0	-2	45	-2	SSW	4	-	co+	2	0.6	-	49	45	oo	r or d	c	0.2
Blacksod Point	996.0	49	SSW	7	PR-	989.7	-7	47	-2	SSW	6	-	pr	6	1.0	0.1	51	38	r or d	b	b	*
Roche's Point	1001.5	49	SW	5	co	996.4	-5	49	0	SSE	6	-	co	7	0.4	Tr.	52	48	oo	oo	oo	*
Birr Castle	1004.1	50	S	3	co+	995.8	*	45	-3	S	4	-	do +	*	-	0.4	55	43	c	c	r or d	0.6
Donaghadee	1004.2	50	SSW	2	bc	1000.7	-6	46	0	SW	3	-	co -	3	-	-	53	45	c	b or bc	oo	*
Liverpool (Bidston)	1009.0	49	SW	4	cov	1005.1	-4	44	-2	SE	2	-	co	1	-	0.5	54	43	b or bc	oo	b	0.9
Holyhead	1007.9	48	SSW	6	DD	1002.0	-4	45	-3	S	6	-	co/r	6	0.2	0.6	50	43	r or d	r or d	r or d	0.2
Pembroke (St. Ann's Head)	1011.1	47	S	5	do	1003.2	3	45	-3	S	5	-	co	6	Tr.	0.3	49	42	c	c	oo	1.3
Scilly (St. Mary's)	1013.5	48	SSW	4	co	1001.5	-6	49	+1	SSE	6	-	bc-	6	0.2	-	50	46	b	b	c	0.4
Jersey (St. Aubin)	1017.8	48	SW	2	bc-	1009.0	-1	49	-4	SE	4	-	bc-	3	-	-	51	42	oo	b or bc	b or bc	2.8
Portland Bill	1015.5	48	SW	5	co/f	1008.9	-6	46	-1	SE	4	-	bc	4	0.3	-	49	43	c	r or d	b or bc	*
Dungeness	1017.5	46	WSW	3	bc +	1012.3	-3	44	0	S	2	-	bc	3	3	-	50	43	r or d	c	b or bc	*
Wick	998.3	45	SSW	2	co/r	994.8	-2	45	+3	SSW	3	-	co -	4	0.1	1	47	42	r or d	b	r or d	*
Nairn	998.3	46	-	0	r	994.4	*	45	-3	-	0		bc	1	1	2	52	42	cq	cpq	cg.p.c	0.0
Leith	1000.8	50	WSW	3	c	1000.0	0	47	+2	WSW	1	SW	bc	1	TRACE		51	45	gp. c	cg. b.c	b.c.bc	*
Tynemouth	1006.3	52	WSW	3	co-	1004.5	0	45	-1	SW	4	-	co +	0	-	-	54	44	c	c	b or bc	*
Spurn Head	1011.0	49	SW	6	bc+	1009.7	-1	41	-2	S	5	-	bc	2	-	-	?	?	c	c	c	*
Yarmouth (Gor Island)	1015.7	51	SW	3	fo	1013.2	-2	39	+1	SSW	3	-	bc	0	-	-	55	38	c	b or bc	b or bc	4.5
Clacton-on-Sea	10?	46	W	2	co	1012.4	? -2	48	+1	SSE	3	-	bc	0	-	-	50	42	c	c	b or bc	0.8
Nottingham	1012.1	50	SW	3	co	1008.8	*	39	-5	S	2	-	bc	*	-	-	53	39	c	c	c	1.0

Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p. 5.

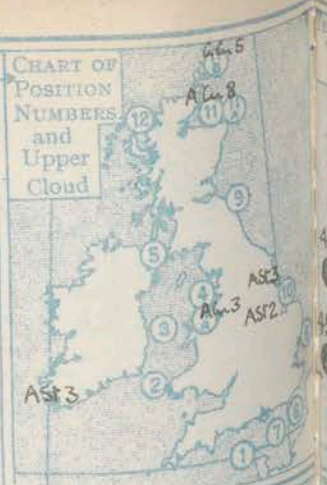
M.O. FORM 2370.

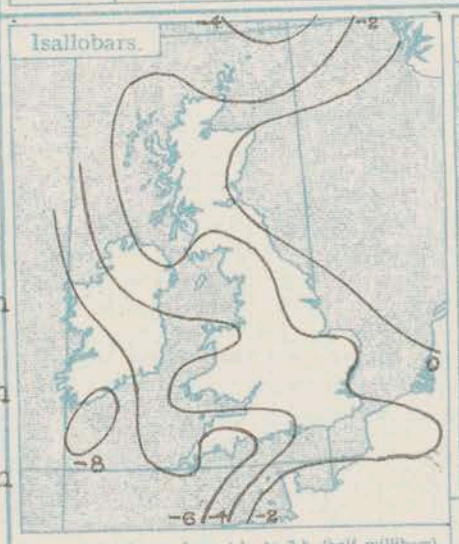
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 10.3.1921

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

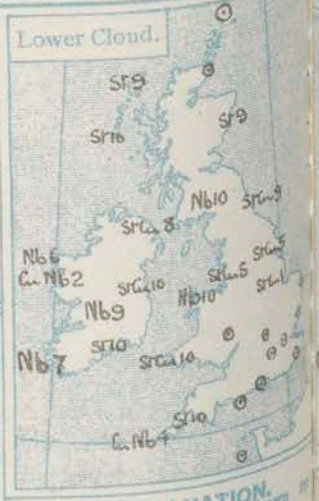
Temperature reported from Coastal and Cross Channel Steamers

Position Number	Date	Time G.M.T.	Sea °F	Air °F
4A	10th	0500	46	46
7	"	0328	48	49
2	"	0220	48	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. snow. sleet. hail. fog. mist. T thunder. TS thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

GENERAL INFERENCE from observations received up to 9h

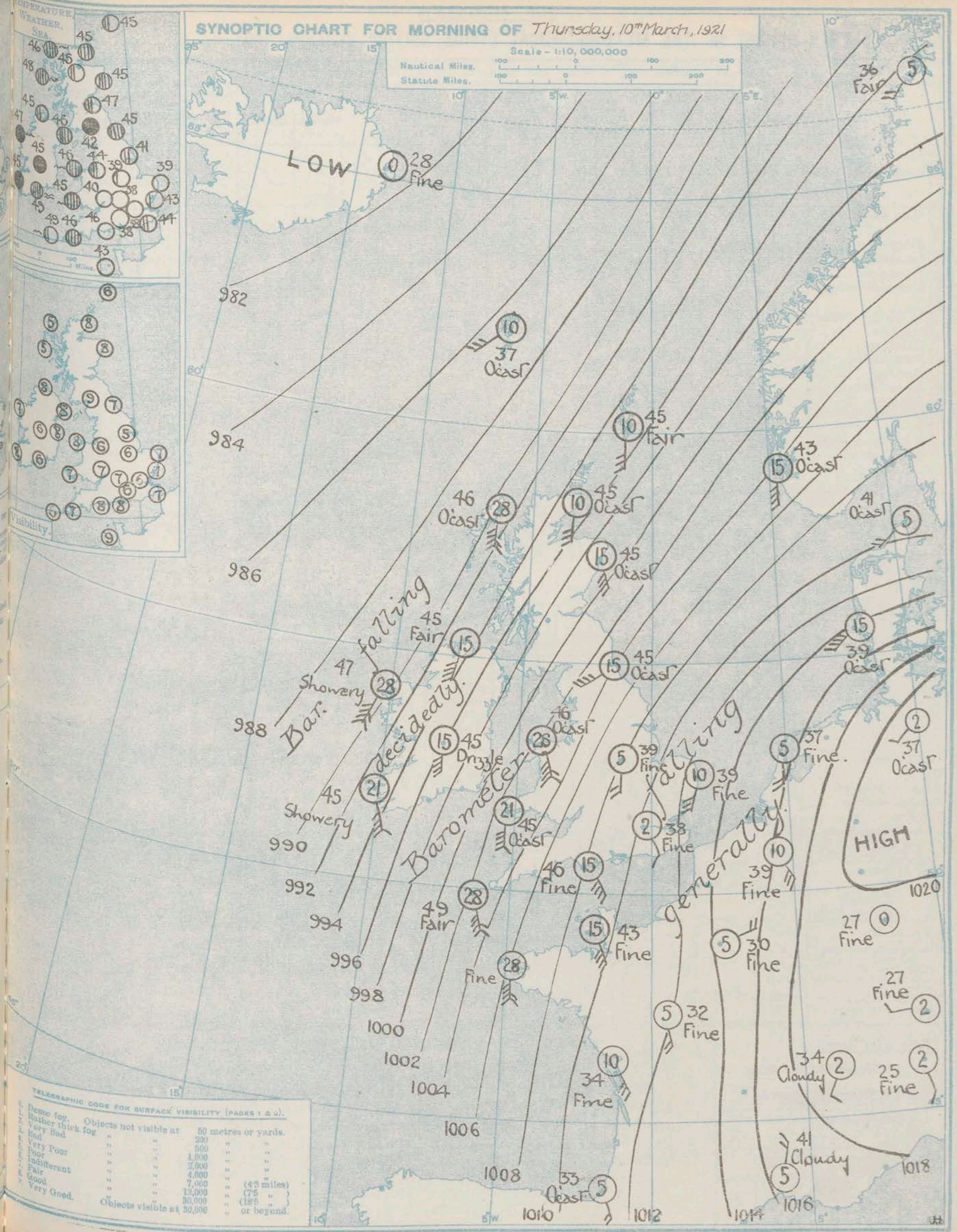
Depressions extending over the British Isles from the Atlantic will cause Southerly winds for a time. Rain or drizzle is probable in the Western Districts, but in the East the weather is likely to be mainly dry for the present although the sky will become cloudy.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday 10th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind S. or S.E., light to fresh; fair to overcast; visibility fair to good. Moderate temperature.	None issued.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind mainly S, moderate to strong; much cloud, some rain or drizzle; visibility deteriorating. Moderate temperature.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Same as for 1 - 3.	
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 S, veering later, fresh or strong, high locally; much cloud, some rain or drizzle; visibility indifferent to fair. Moderate 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 Thursday, 10th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA
Visibility
LOW
HIGH
Bar. falling decidedly.
Barometer falling generally.
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
Telegraphic code for surface visibility (pages 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Very Bad " " 200 " "
Bad " " 500 " "
Very Poor " " 1,000 " "
Poor " " 2,000 " "
Indifferent " " 4,000 " "
Fair " " 7,000 (4·3 miles)
Good " " 12,000 (7·5 ")
Very Good. " " 30,000 (18·5 ")
Objects visible at 30,000 " " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 69

THURSDAY 10TH MARCH 1921

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	bc c	or	55	39	-	1	0.5
England, N.E.	Harrogate	o.c.	bc.c.	55	39	-	-	3.4
	Skegness	cbo	co	54	37	-	-	3.1
England, E.	Lowestoft ...	o c bc	bc c	54	38	-	-	2.4
	Felixstowe	oc	q	51	38	0.2	-	1.1
	Southend-on-Sea...	oc	o	52	37	-	-	1.2
England, S.E.	Tunbridge Wells	co	o	50	38	-	-	0.2
	Margate	c	o	53	38	-	-	2.1
	Ramsgate	*	*	49	38	-	-	2.5
	Folkestone	o cbc	b	50	40	1	-	1.6
	Hastings	od o	obcb	49	41	1	0.4	1.9
	Eastbourne... ...	o	c	52	43	2	-	1.6
	Brighton	o	obc.o	50	41	1	-	1.5
	Worthing	oc	o	51	39	1	-	0.5
	Portsmouth (S'thsea)	*	*	53	42	-	-	1.0
	Bournemouth ...	*	*	50	40	1	1	0.3
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 8TH-9TH	Rainfall. Day. 9h-17h. 9TH	Sunshine. Sunrise to Sunset. 9
England, N.W.	Blackpool	c	o	53	44	0.2	-	2.5
	Southport	cbco	oco	56	43	-	-	3.6
Midlands.	Leamington Spa...	bc	o	54	38	-	-	3.0
	Bath	oc	ocb	52	41	-	-	1.5
Wales.	Rhyl	bc	o	53	44	-	-	2.0
	Colwyn Bay ...	*	*	55	42	-	-	4.1
	Llandudno	b.bc	c.o.c	54	45	-	-	2.6
	Aberystwyth ...	yoc	c.o	50	44	1	-	0.0
England, S.W.	Weymouth	oco	ypo	53	43	2	0.2	0.5
	Torquay	bcbyo	ypo	52	42	1	0.1	0.4
	Paignton	cbeyc	oyp	52	39	2	Trace	1.0
	Penzance	bcc	co	52	43	1	-	1.2
	Bude	p	p	52	43	0.3	0.1	0.5
	Ilfracombe	oco	o	52	45	0.3	-	0.7

SUMMARIES FOR PAST 24 HOURS.

STATIONS	Weather. 7h-13h 9TH	Weather. 13h-18h 9TH	Weather. 18h 9TH-1h 10TH	Weather. 1h-7h 10TH	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall. Day. 7h-18h. mm.	Rainfall. Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	r or d	r or d	p		50			8		
Eskdalemuir	r or d	f or m	r or d	r or d	45	44	39	5	5	0.8
Valencia (Cahire'a) ...	p	p	b or h	p	52	45	43	2	6	0.1
Baldonnel	oo	c	b	c	56	44	41	Trace	-	0.4
MANCHESTER (ALEXANDER, Mn)	oo	r or d	c	c	56	44	43	Trace	-	*
Ross on Wye... ...	c	oo	c	c	51	39	33	-	-	0.3
Falmouth	c	r or d	c	oo	57	44	44	0.2	-	1.0
Calshot (Hants)... ...	r or d	c	b or bc	b or bc	50	42	39	1	-	0.6
Lympne (Folkestone) ...	r or d	c	b or bc	b or bc	49	37	*	0.2	-	1.8
Aberdeen	c	c	c	c	53	45	43	-	-	3.4
Howden	c	oo	c	oo	56	36	36	-	-	2.0
Cranwell (Lincs)	c	c	c	b or bc	54	34	34	-	-	3.0
Felixstowe	c	c	b or bc	b or bc	57	39	36	-	-	1.0
Shoeburyness	c	c	b or bc	b or bc	54	36	31	-	-	1.1
Benson	oo	oo	b or bc	b or bc	52	37	29	0.2	-	*
S. Farnborough ...	p	oo	f or m	f or m	52	34	27	Trace	-	1.9
London (Kew Obsy.) ...	c	oo	b or bc	b or bc	52	36	29	Trace	-	0.4
Croydon	r or d	r or d	b or bc	b or bc	52	36	28	Trace	TRACE	*

WEATHER. (p1.)

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

A "solidus" divides, normal existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0-5; oo = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 10TH							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	0	0	o.bc.bx	55	34	26	-	1.2	75	66
City (Funhill Row)	*	*	*	*	*	*	*	0.4	*	*
Westminster (St. James's Park)	*	*	b	53	29	21	-		72	59
REGENT'S PARK (BOTANIC GDNS)	*	*	*	*	*	*	*		*	*
Camden Sq. (British Rainfall)	c.cd	c	*	56	36	24	-	*	76	66
Kensington Palace	c.o	o.c.o	*	52	36	23	-	*	79 (18h)	62
Hampstead Observatory ...	*	*	*	49	37	23	-		*	62

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.

10TH for 11TH MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6·22	12·4	5·48
	6·20	12·3	5·47
Greenwich	6·29	12·10	5·53
	6·26	12·10	5·57
Wick ...	6·47	12·23	6·1
	6·44	12·22	6·4
Valencia ...	7·11	12·22	6·30
	7·18	12·27	6·30

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

Exposure from 9TH 18h. 42m. to 10TH 2h. 30m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	45	10	5	94
δ Ursae Minoris	10	45	10	0	93

NOTES ON THE WEATHER OF YESTERDAY.

Temperature exceeded 50° in nearly all places, reaching 55° or 56° locally. Rain fell at many Western and Northern stations, the largest amounts being about 12 mm in the Hebrides, 10 mm at Eskdalemuir and Blacksod, and 8 mm at Valencia. Bright sunshine records were slight to moderate.

* 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. 24659 FRIDAY 11th MARCH 1921.

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

15H. G.M.T. 10th / 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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	997.5	-2	SSE	4	co-	47	75	7	1500	St.Cu	9	-	9	*	999.4	-5	ENE	2	co	46	75	6	2500	St.Cu	10	-	10	*
Eskdalemuir	998.5	-5	SSW	5	bc-	45	75	6	5,700	Cu	3	~~A.St~~	3	*	995.6	-4	S	4	pr₀	45	75	6	2500	St.Cu	9	A St	10	*
Valencia (Cahirc'n)	984.8	-9	SSE	7	pr₀	50	85	7	1500	St	10	-	10	§	993.5	+16	WNW	5	co/r	43	75	8	1500	St.Cu	7	-	7	6
Baldonnel	995.0	-3	SSW	5	PR-	48	85	8	1500	Nb	9	-	9	*	988.0	-7	S	8	R	50	85	7	800	St.Cu	8	A.Cu	10	*
Manchester (Alex Pk)	1001.5	-6	S	4	bc-	55	55	6	-	-	-	-	0	*	999.3	-2	S	5	co-	51	65	5	5,700	St.Cu	9	-	9	*
Ross on Wye	1002.6	-7	S	4	bc	54	45	8	-	-	-	-	0	*	1001.2	-1	S	5	bc+	49	75	7	4,000	Cu	3	Ci	6	*
Falmouth	1006.6	-2	S	4	co	52	85	7	-	Cu.Nb	8	-	8	*	998.2	-3	S	7	d₀	51	85	6	-	St	10	-	10	*
Calshot (Hants) *	1006.1 (~~1010.1~~)	-4	SSE	4	bc+	51	75	8	-	-	-	Ci	1	*	1004.5	-1	S	4	co+	49	75	7	4000	St.Cu	1	Ci	8	0
Lympne (Folkestone)	1008.5	-5	SSE	5	bc	48	65	8	-	-	-	-	0	*	1006.4	0	SSE	5	bc	47	78	8	-	-	-	Ci	1	*
Aberdeen	988.8	-1	S	4	co-	47	85	7	2500	St.Cu	7	-	7	*	996.0	-1	S	5	co+	45	85	8	2500	St.Cu	7	-	7	3
Howden	1003.4	-5	S	5	bc-	55	55	7	-	-	-	-	0	*	1000.2	-1	WNW	4	co+	50	65	6	4,000	St	5	A St	6	*
Cranwell (Lincs)	1004.3	-5	SSW	6	bc-	50	75	6	-	-	-	-	0	*	1002.2	-1	SSW	4	co+	49	65	7	4,000	St	2	Ci	7	*
Felixstowe	1010.1	-4	SSE	4	bc	49	75	7	-	-	-	-	0	*	1007.6	-2	S	4	bc+	45	85	7	-	-	-	Ci	1	3
Shoeburyness	1008.1	-4	SSE	4	bc	53	55	7	-	-	-	-	0	*	1005.7	7	SSW	1	bc+	42	75	7	-	-	-	Ci	1	*
Benson	1004.0	-5	SSE	7	bc	54	55	8	-	-	-	-	0	*	1004.1	0	S	3	bc	47	65	7	-	-	-	-	0	*
S. Farnborough	1005.7	-4	S	3	bc	55	55	8	-	-	-	Ci St	1	*	1005.1	0	S	2	bc+	47	75	8	4000	St.Cu	1	Ci St	5	*
London (Kew Obsy.)	1006.0	-5	S	4	bc	54	55	8	-	-	-	-	0	*	1004.9	-1	S	2	bc+	49	55	6	-	-	-	Ci	5	*
Croydon	1007.3	-4	S	5	bc	53	55	8	-	-	-	-	0	*	1005.8	0	S	2	co+	49	65	7	-	-	-	Ci	7	*

1H. G.M.T. OF 11th / 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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	995.8	0	S	4	r₀	40	92	6	2500	St.Cu	4	-	4	*	1001.2	+6	SSW	4	bc+	38	85	4	1500	St.Cu	1	A St	2	*
Eskdalemuir	996.3	+2	SW	6	co-	41	85	4	2500	St	4	-	4	*	1003.6	+5	SSW	3	bc+	33	92	4	1500	St	3	-	3	*
Valencia (Cahirc'n)	1000.4	+3	WSW	1	bc/r	40	*	*	*	*	*	*	*	*	1003.1	+3	SW	3	pr₀	41	95	8	2000	Cu.Nb	6	-	6	2
Baldonnel	1000.2	+9	SW	4	bc	38	85	8	-	-	-	A St	2	*	1003.5	+2	WSW	3	co	38	85	8	-	-	-	A St	9	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.4	+3	SSE	2	co+	34	94	5	2500	St.Cu	6	A Cu	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.0	+3	-	0	co/r	42	97	6	1500	St	10	-	10	*
Falmouth	1005.8	+2	-	0	co	42	92	4	-	St	10	-	10	*	1005.0	+2	-	0	co/r	44	92	8	-	St	8	A St	10	*
Calshot (Hants)	1006.9	+4	S	5	co+	49	85	8	-	-	-	A St	10	*	1007.6	+2	S	5	d d₀	44	92	8	2500	St	10	-	10	3
Lympne (Folkestone)	1008.1	+2	SSE	2	bo	44	85	8	-	-	-	-	-	*	1009.5	+2	SE	4	co/r	44	92	8	1200	St.Cu	6	Ci St	8	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.2	+8	SW	4	bc-	38	85	8	-	-	-	Ci	1	0
Howden	1001.2	+1	S	3	co+	43	85	6	2500	St.Cu	9	-	9	*	1005.4	+4	-	0	co	35	97	6	4,000	St	?1	Ci	10	*
Cranwell (Lincs)	1003.5	0	SSW	3	co	42	85	4	2500	St.Cu	4	Ci St	8	*	1006.2	+4	W	1	co+	44	85	4	800	St	8	A St	10	*
Felixstowe	1008.3	0	S	3	bc	44	97	8	-	-	-	-	-	*	1009.8	+4	SSW	3	bc+	44	97	8	4,000	St.Cu	2	Ci St	6	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	+3	SW	2	f f₀ b	44	85	6	4,000	St.Cu	2	Ci	4	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.4	+2	SSW	4	co	48	85	8	-	St	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	+3	S	3	co	48	85	8	1500	St.Cu	10	-	10	*
London (M.O. at 1h.)	1006.3	+1	*	*	*	49	*	*	*	*	*	*	*	*	1007.8	+3	S	2	co+	48	85	4	2500	St	9	-	9	*
Croydon	1007.1	0	S	3	co+	46	85	4	4000	St.Cu	4	A St	10	*	1008.1	+2	S	3	r₀	47	85	8	4000	St.Cu	5	A St	10	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

18H. G.M.T. of 10th / 7H. G.M.T. of 11th / 24 HOURS ENDED 7H. 11th / Sunshine 10th

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. Day	Rainfall mm. Night	Max. Day °F	Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
Lerwick	995.5	45	S	3	bc/r	991.4	+6	48	+2	SW	6	·	pr₀	4	1	-	48	39	c	p	b or bc	*
Stornoway	986.6	46	S	6	co	989.4	+3	42	-4	SW	6	·	PR	5	0.4	3	49	38	c	p	p	0.3
Castlebay (Barrals)	985.8	47	SE	6	fo-										0.3				oo	p		
Malin Head	983.9	47	SE	4	co	995.0	+1	38	-7	SW	4	·	bc	4	-	1	50	34	oo	oo	b or bc	0.0
Blacksod Point	986.1	38	NW	5	R-	996.9	+5	42	-5	SW	5	·	bc/r	5	21	0.4	52	?38	b or bc	s or rs	p	*
Roche's Point	991.9	44	WNW	6	co-	1004.5	+4	39	-10	NW	1	·	bc+	1	0.5	TR	52	34	p	c	b or bc	*
Birr Castle	984.5	50	S	5	d₀	1002.9	*	32	-18	SW	1	·	bc-	*	1	0.3	52	32	r or d	r or d	r or d	0.9
Donaghadee	992.3	48	SSW	4	co	1003.6	+4	34	-9	SW	2	·	bc+	1	-	0.4	50	35	c	c	p	*
Liverpool (Bidston)	997.5	50	SE	2	co+	1005.2	+3	40	-4	S	1	·	bc	0	-	·	54	39	b or bc	c	b or bc	6.0
Holyhead	992.9	49	SSE	7	bc+	1004.0	+3	42	-3	SW	3	·	co-	1	Tr	0.5	51	40	c	b or bc	r or d	4.2
Pembroke (St. Ann's Head)	995.6	49	S	7	[illegible]	1004.5	+1	46	+1	NE	1	·	co+	5	1	0.5	49	44	p	c	c	3.9
Scilly (St. Mary's)	997.1	48	W	6	co-	1005.1	+2	43	-6	WNW	5	·	r₀+	6	2	2	48	41	b or bc	p	r or d	3.4
Jersey (St. Aubin)	1005.3	52	SSE	4	co	1007.2	0	47	+4	S	4	·	d₀	3	-	TR.	54	45	b or bc	c	b or bc	8.8
Portland Bill	1002.6	49	S	6	bc	1005.4	+5	45	-1	S	5	·	pr₀	6	-	0.6	49	?45	b or bc	b or bc	oo	*
Dungeness	1006.0	49	SSW	3	bc	1009.1	+2	46	+2	SSW	2	·	co+	3	-	0.1	51	43	b or bc	b or bc	p	*
Wick	992.2	46	SSW	4	co	992.9	+6	40	-5	SW	5	·	bc	4	0.2	·	48	35	c	r or d	b or bc	*
Nairn	990.4	46	WSW	3	c	994.5	*	41	-4	WSW	4	·	cq	5	-	·	52	38	cbcqq	bcqg	cqg	2.4
Leith	994.6	48	SW	1	o	1001.2	+3	38	-9	SW	1	·	bc	1		-	51	38	c.bc.o.o	odm	o.c.bc	*
Tynemouth	998.5	52	SSW	3	bc+	1004.0	+4	39	-6	SW	2	·	bc+	1	-	-	53	36	c	b or bc	b or bc	*
Spurn Head	1001.5	46	S	6	bc	1005.4	+5	45	+4	S	2	·	f/o+	3	-	·	53	39	b or bc	b or bc	c	*
Yarmouth (Gorleston)	1007.6	44	SSE	4	bc+	1009.4	+1	40	+1	S	3	·	bc+	1	-	-	49	40	b or bc	b or bc	b or bc	6.9
Clacton-on-Sea	1006.1	46	SSE	3	bc	1008.5	+3	45	+2	SSE	3	·	bc+	0	-	-	47	44	b or bc	b or bc	b or bc	10.1
Nottingham	1001.8	51	S	3	bc+	1005.4	*	44	+5	SW	1	·	co+	*	-	-	58	43	b or bc	b or bc	c	10.0

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

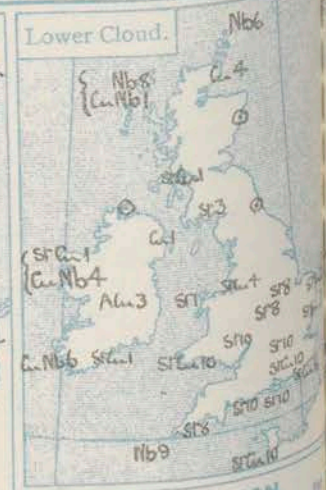
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 11.3.1921

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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
3	10th	0945	46	47
5	"	1016	45	48
1	"	1225	49	50
2	11th	0210	48	44



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

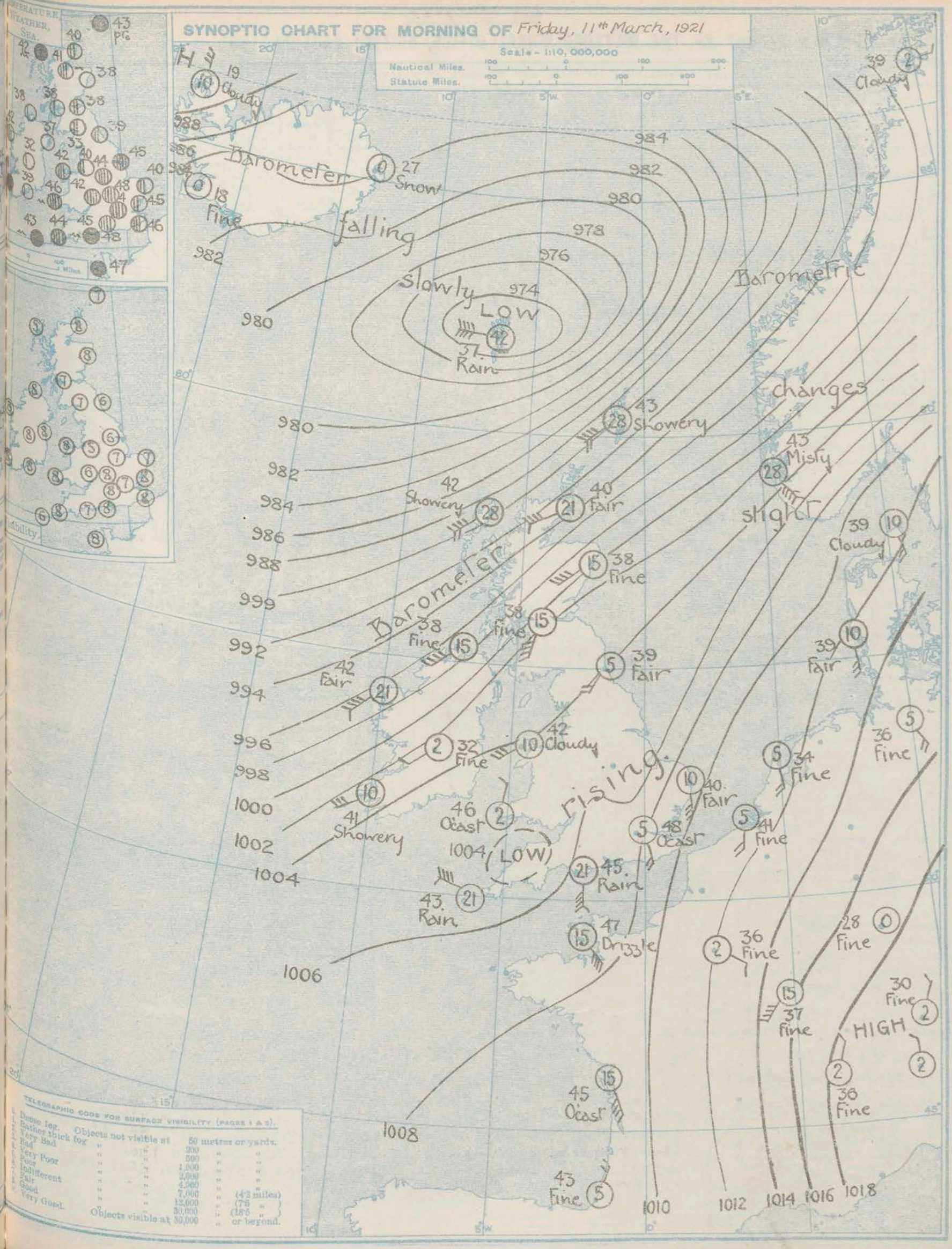
Further depressions will probably arrive over this country from the Atlantic maintaining unsettled weather with the main wind current from between S. and W.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Friday 11th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind Westerly to South-Westerly, light or moderate; some rain, then fair. Visibility mainly fair or good. Moderate temperature.	Wind mainly West. Temperature moderate.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between S. & W., light or moderate; cloudy or overcast generally, some showers. Visibility fair. Little change of 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 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind mainly from between S.W. and W; light or moderate, stronger locally; mainly cloudy or overcast, some showers of hail or rain, brighter intervals. Visibility fair. Moderate or rather low temperature.	

R.S.

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 08.45.

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


SYNOPTIC CHART FOR MORNING OF Friday, 11th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Barometer falling slowly
LOW
Rain
Barometric changes
Misty
slight
Showery
Fair
Fine
Cloudy
Barometer rising.
(LOW)
HIGH
Drizzle
Ocast
Snow
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 3).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Very Poor " " 1,000 " "
Poor " " 2,000 " "
Indifferent " " 4,000 " "
Fair " " 7,000 " (4·3 miles)
Good " " 12,000 " (7·6 ")
Very Good. " " 30,000 " (18·5 ")
Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 70 ... FRIDAY 11TH MARCH 1921

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	c bc	c bc	51	43	1	-	2.6
England, N.E.	Harrogate	b	b	54	42	0.1	-	8.7
	Skegness	b	b	54	40	-	-	9.1
England, E.	Lowestoft ...	b.	b.	50	40	-	-	9.8
	Felixstowe	b m	b	48	42	-	-	10.0
	Southend-on-Sea...	b.	b	55	39	-	-	10.0
England, S.E.	Tunbridge Wells	b	b	54	37	-	-	9.7
	Margate	b	b	56	40	-	-	10.3
	Ramsgate	*	*	51	40	-	-	10.0
	Folkestone	bc b	b	53	41	-	-	9.3
	Hastings	b	b	51	43	Trace	-	10.0
	Eastbourne... ...	b	b	53	41	-	-	9.9
	Brighton	by	by	52	41	0.3	-	9.6
	Worthing	b	b	53	42	-	-	10.1
	Portsmouth (S'ksea)	*	*	52	42	-	-	9.8
	Bournemouth ...	*	*	52	42	-	-	9.9
England, N.W.	Blackpool	c	bc	54	44	1	-	6.1
	Southport	bc b	b. bc	55	44	0.2	-	7.2
Midlands.	Leamington Spa...	b	b	58	37	-	-	9.3
	Bath	b	b	54	38	-	-	8.7
Wales.	Rhyl	bc b	bc c	56	40	-	-	6.0
	Colwyn Bay ...	*	*	55	44	-	-	5.7
	Llandudno	b	bc c	56	44	-	-	5.8
	Aberystwyth ...	r o c	c	54	42	1	-	6.5
England, S.W.	Weymouth	b	b	54	43	-	-	9.7
	Torquay	b	b bc	52	45	-	-	8.4
	Paignton	bc.	bc. o	53	41	-	-	8.5
	Penzance	bc	bc c o r	53	47	-	1	5.8
	Bude	c bc b	b. bc o	53	45	-	-	6.7
	Ilfracombe	b bc	bc c bc	54	42	-	-	5.4

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 10TH	Weather. 13h-18h 10TH	Weather. 18h 10TH-1h 11TH	Weather. 1h-7h 11TH	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	p	f or m	p	b or bc	47	37	33	Trace	0.5	0.3
Eskdalemuir	c	p	r or d	b or bc	47	32	30	0.2	2	2.6
Valencia (Cahirc'n) ...	p	r or d	r or d	p	51	36	30	8	1	0.9
Baldonnel	p	p	3 or bc	c	53	36	30	0.2	-	6.3
Manchester (Alex Park)	b or bc	c	c	p	56	35	28	-	-	*
Ross on Wye... ...	b or bc	b or bc	r or d	r or d	56	41	34	-	1	9.3
Falmouth	c	c	c	r or d	53	41	39	Trace	1	4.4
Calshot (Hants)... ...	b or bc	b or bc	b or bc	r or d	57	~~54~~	44	-	Trace	10.0
Lympne (Folkestone) ...	b or bc	b or bc	b or bc	p	50	42	40	-	0.2	10.1
Aberdeen	oo	c	c	c	48	38	34	-	-	2.4
Howden	b or bc	b or bc	b or bc	oo	57	35	24	+	-	9.6
Cranwell (Lincs)	b or bc	b or bc	b or bc	c	57	34	35	-	-	10.0
Felixstowe	b or bc	b or bc	b or bc	b or bc	50	41	38	-	-	9.9
Shoeburyness	b or bc	b or bc	b or bc	b or bc	54	37		-	-	9.4
Benson	b or bc	b or bc	oo	oo	55	44	33	-	-	*
S. Farnborough ...	b or bc	b or bc	c	c	55	43	40	-	-	9.1
London (Kew Obsy.) ...	b or bc	b or bc	b or bc	b or bc	55	44	36	-	-	9.6
Croydon	b or bc	b or bc	b or bc	r or d	55	43	33	Trace	0.1	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; c o = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	0·3- 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

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)	b	b	b. m	57	43	37	-	10.1	47	70
City (Bunhill Row)	*	*	*	*	*	*	*	8.0	*	*
Westminster (St. James's Park)	*	*	bc	56	47	35	-	8.5	50	77
Regents Park (Botanic Gdn.)	*	*	*	*	*	*	*	8.9	*	*
Camden Sq. (British Rainfall)	m b m b	b	*	57	40	38	-	*	48	69
Kensington Palace	b	b. bc	*	57	44	37	-	*	57 (18h)	74
Hampstead Observatory ...	*	*	*	55	44	*	-	5.8	*	74

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 & 12TH MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.20 / 6.18	12.3 / 12.3	5.47 / 5.49
Greenwich	6.26 / 6.24	12.10 / 12.10	5.55 / 5.56
Wick ...	6.44 / 6.41	12.22 / 12.22	6.7 / 6.3
Valencia ...	7.8 / 7.5	12.31 / 12.31	6.35 / 6.34

Photographic Record of Pole Star (Polaris) and of 3 Ursae Minoris at Greenwich Observatory.

Exposure from 10TH ... 11 h. ... 45 m. to 11TH ... 5 h. ... 30 m.

Stars.	Duration of Exposure. h.	Duration of Exposure. m.	Duration of Record. h.	Duration of Record. m.	%
Polaris	10	45	5	30	57
3 Ursae Minoris	10	45	5	24	56

NOTES ON THE WEATHER OF YESTERDAY.

Much bright sunshine was experienced over England, the record exceeding 10hrs at many stations, and the maximum temperature readings were consequently high - 55°, 56° or 57° in several localities. In Ireland and Scotland there was much cloud. Rain fell in most Western & Northern districts - as much as 21 mm at Blacksod Point.

* 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 21,660 SATURDAY 12th MARCH 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.	Total 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.	Total Amt. 0–10.	Sea 0–9.
	13H. G.M.T. of 11th														**18H. G.M.T. of 11th**													
Renfrew	1003.5	-1	SSW	4	co	48	55	8	2500	Cu	2	A.Cu	6	*	1004.8	+2	S	2	bc	43	65	8	2500	St.Cu	2	-	2	*
Eskdalemuir	1005.3	-1	SSW	4	co+	43	75	7	2500	Cu	9	-	9	*	1006.3	+2	SSW	4	ph.	38	97	6	1500	CuNb	8	-	8	*
Valencia (Cahirc'n)	1005.4	+1	SW	4	co+	49	65	9	2500	Cu	9	-	9	*	1005.5	+1	SSW	4	bc-	47	65	9	2500	St.Cu	4	-	4	4
Baldonnel	1005.8	+2	SW	3	bc-	49	65	9	4000	Cu	2	A.St	4	*	1006.4	+2	SW	4	bc-	46	65	9	6000	Cu	2	-	2	*
Manchester (Alex. Pk)	1007.2	0	SSW	2	co	47	65	7	5,700	St.Cu	10	-	10	*	1007.9	+2	W	2	co	45	75	4	5,700	St.Cu	9	A.St	10	*
Ross on Wye	1007.0	+1	W	1	r	47	85	8	2500	Nb	10	-	10	*	1008.3	+2	SW	2	co-	46	92	8	2,500	St	8	A.St	10	*
Falmouth	1007.7	+1	NNW	3	co	50	65	8	-	Cu	4	Ci.St	7	*	1009.8	+3	NW	3	bc-	46	75	7	-	CuNb	2	-	2	*
Calshot (Hants)	1008.9	0	S	3	ro	49	85	8	1500	St	10	-	10	*	1009.5	+2	-	0	co-	47	92	6	5,700	St.Cu	7	Ci	8	*
Lympne (Folkestone)	1010.7	-1	SSE	3	bc-	50	75	8	5700	St.Cu	2	Ci.St	5	*	1010.6	+1	SSW	2	bc+	46	85	8	-	-	-	A.Cu	5	*
Aberdeen	1003.2	+1	SW	4	bc+	48	55	8	-	-	-	Ci.Cu	3	*	1003.2	+1	S	3	bc-	45	75	7	5,700	St.Cu	1	-	1	0
Howden	1006.6	-1	SSE	2	co	49	75	7	4000	St	5	A.St	10	*	1007.3	+2	-	0	co	47	75	5	4,000	St	10	-	10	*
Cranwell (Lincs)	1008.0	0	WSW	1	do	46	97	6	1,500	Nb	10	-	10	*	1008.6	+2	W	1	do	46	97	6	800	Nb	10	-	10	*
Felixstowe	1011.3	+1	S	3	bc-	50	85	9	5,700	St.Cu	2	Ci.St	6	*	1011.0	+2	S	3	bc-	46	85	8	5,700	St.Cu	1	Ci.St	5	*
Shoeburyness	1010.2	+1	SSE	4	bc/f	56	65	8	-	-	-	Ci.	3	*	1009.5	0	SSW	1	bc	46	85	6	-	-	-	Ci.St	3	*
Benson	1007.2	0	SSW	4	co	54	65	8	-	St.Cu	10	-	10	*	1008.5	+1	S	2	co	49	85	7	-	St.Cu	10	-	10	*
S. Farnborough	1008.5	+1	S	2	co	56	65	8	4000	St.Cu	10	-	10	*	1010.4	+1	S	1	bc-	48	85	7	2500	St	3	Ci.St	5	*
London (Kew Obsy.)	1008.7	0	S	3	co-	57	65	8	-	-	-	Ci.Cu	9	*	1009.4	+2	SSW	3	co	51	85	6	2500	Cu	2	A.Cu	10	*
Croydon	1009.6	+1	SSW	4	co/f	56	55	8	7250	St.Cu	6	A.Cu	9	*	1010.0	+2	SSW	3	co	49	75	7	7250	St.Cu	8	Ci.St	10	*
	1H. G.M.T. of 12th														**7H. G.M.T. of 12th**													
Renfrew	1005.2	0	SSE	2	bc	39	85	8	-	-	-	-	0	*	1003.7	-1	ESE	2	co+	35	92	7	4000	Cu	1	A.St	9	*
Eskdalemuir	1007.1	-1	S	4	co	38	97	6	2500	St	10	-	10	*	1006.1	-1	S	3	co+	35	85	6	1500	Cu	8	-	8	*
Valencia (Cahirc'n)	1000.9	-4	SSW	5	r	46	*	*	*	*	*	*	*	0	995.5	-4	S	7	rr	44	85	5	1500	Nb	10	-	10	*
Baldonnel	1006.4	-2	-	0	bc	38	85	8	-	-	-	-	0	*	1002.2	-3	SSW	6	co+	43	75	8	2500	St.Cu	5	A.St	8	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.7	?	E	1	co-	32	97	3	5700	St.Cu	7	A.Cu	8	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.5	0	-	0	bc-	33	97	7	1500	St	2	Ci.Cu	3	*
Falmouth	1010.7	-1	NW	1	bc+	38	85	8	-	Cu	2	-	2	*	1009.0	0	NW	1	bcv	36	85	9	-	CuNb	2	A.Cu	3	*
Calshot (Hants)	1010.4	0	SSE	2	co-	46	97	5	2500	St	10	-	10	*	1010.0	0	SSE	2	do	45	92	7	2500	St	10	-	10	0
Lympne (Folkestone)	1010.9	0	SSW	2	co	45	85	8	-	-	-	Ci.St	8	*	1010.6	0	SSE	3	co+	45	92	8	1500	St.Cu	7	A.Cu	9	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.9	0	SSW	2	bc	39	92	7	-	-	-	Ci	1	0
Howden	1009.6	+0	-	0	ro	41	85	4	4000	Nb	10	-	10	*	1008.4	-1	-	0	co/r	39	92	4	2500	St	6	A.St	9	*
Cranwell (Lincs)	1010.0	0	W	1	dodo	44	97	6	800	Nb	10	-	10	*	1009.7	0	SW	1	do	42	97	4	1500	Nb	10	-	10	*
Felixstowe	1011.8	-1	SSW	1	co+	49	97	6	4000	St.Cu	10	-	10	*	1011.5	+1	S	2	co+	45	97	6	4000	St.Cu	7	A.St	9	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.4	0	SW	1	bc+	43	85	6	4000	St.Cu	3	A.Cu	4	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.6	0	S	2	co	44	97	4	-	St	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	0	-	0	3ff o	43	97	3	800	St	10	-	10	*
London (M.O. at 1H.)	1010.3	0	*	*	*	44	*	*	*	*	*	*	*	*	1010.1	0	-	0	co+	43	92	5	4,000	St.Cu	9	-	9	*
Croydon	1011.6	0	SSW	3	co+	43	92	6	-	[illegible]	[illegible]	A.Cu	9	*	1010.7	0	SSE	1	co	44	92	6	5700	St.Cu	7	A.Cu	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.	‡ 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. † Day.	Rainfall Night.	Max. Day. °F	Min. Night. °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																						
Stornoway	998.4	45	SSW	5	bc-	1002.0	0	44	+1	S	4		bc-	3	-	-	46	41	b or bc	b or bc	b or bc	*
Castlebay (Barra Is)	997.1	39	SW	6	PH	994.1	-2	45	+3	S	7		c o+	5	0.3	0.4	46	39	p	p	c	4.0
Malin Head	1001.2	45	SW	3	bc	994.5	-4	41	+3	SSW	4		co+?	4	-	-	46	36	b or bc	b or bc	b,bc	?
Blacksod Point	999.5	46	SW	3	ro(r)	990.3	-3	44	+2	SW	6		R	6	2	7	49	40	p	R or hr	b,bc r or d	*
Roche's Point	1007.9	47	SW	3	bc-	1001.4	-4	47	+8	SSW	7		co+	7	-	-	50	39	b or bc	b or bc	b or bc	*
Birr Castle	1005.3	46	WSW	2	co+	998.9	*	43	+11	SSE	3		co+	*	-	.1	50	36	c	c	r or d	7.5
Donaghadee	1004.5	45	SW	2	bc-	1004.0	-2	43	+6	SW	3		co+	3	-	-	51	38	b or bc	b or bc	c	*
Liverpool (Bidston)	1007.4	42	-	0	bc-	1007.9	-1	35	-5	S	3		bcv	1	0.5	-	50	34	c	p	b or bc	0.0
Holyhead	1007.4	45	SSW	3	bc-	1005.3	-2	43	+1	S	5		bc+	1	1	-	48	42	p	b or bc	b or bc	?
Pembroke (St. Ann's Head)	1009.3	45	W	2	bc-	1007.0	-2	45	-1	S	4		bcr	2	4	-	48	42	r or d	b or bc	b or bc	2.8
Scilly (St. Mary's)	1009.6	47	WNW	2	bc-	1007.5	-2	45	+2	S	4		co-	5	1	-	51	40	b or bc	b or bc	b or bc.	7.8
Jersey (St. Aubin)	1009.0	52	SSE	3	co	1009.8	0	46	-1	N	2		do	0	Tr.	Tr.	54	44	r or d	c	oo r or d	1.8
Portland Bill	1008.0	48	S	5	co-	?	0	46	+1	E	2		co	3	-	-	50	43	c	c	oo	*
Dungeness	1009.6	49	SW	2	bc+	1010.7	-1	47	+1	S	2		co+	1	-	-	52	46	b or bc	c	b,bc.c.	*
Wick	998.9	43	SW	5	bc	999.7	-1	43	+3	S	4		co+	3	-	-	47	38	c	b or bc	b,bc.	*
Nairn	999.6	42	WSW	2	bc	1000.1	*	41	0	-	0		bc	1	-	-	49	35	cq bc	bc	bc x	8.2
Leith	1004.5	44	SW	2	bc	1004.5	0	41	+3	SW	1	SW	bc	1	-	-	51	39	bc. bc	b	b.bcx	*
Tynemouth	1006.1	44	S	1	co+	1007.8	0	35	-4	SW	1		bc	0	-	-	49	35	f or m	b or bc	b or bc	*
Spurn Head	1007.6	47	SSW	2	co/f	1009.3	-1	44	-1	W	2		2f b+	1	0.4	0.3	?	43	p	f or m	f. or m	*
Yarmouth (Gorleston)	1009.9	46	SSW	4	bc	1010.8	-1	41	+1	SSW	1		bc-	0	-	-	55	41	b or bc	b or bc	b,bc. c.	4.6
Clacton-on-Sea	1009.7	46	SE	2	bc	1010.2	0	45	0	SSE	1		co	0	-	-	50	43	b or bc	b or bc	c	7.3
Nottingham	1008.0	46	SW	1	co	1008.8	*	42	-2	SW	1		co	*	2	0.2	49	41	r or d	r or d	r or d	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.

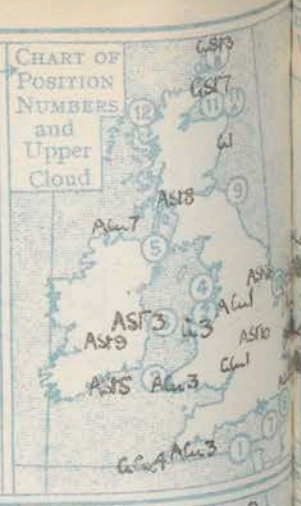
M.O. FORM 2370.

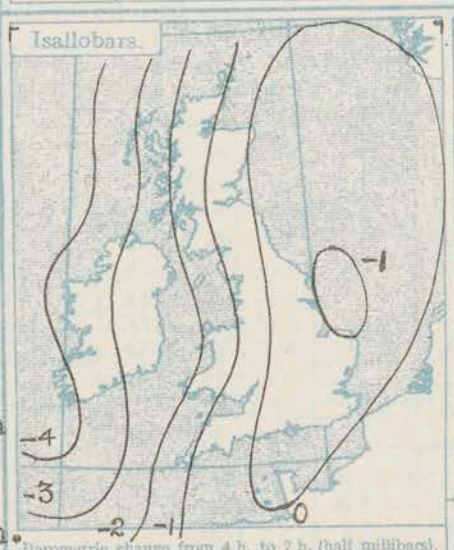
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 12.3.1921

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

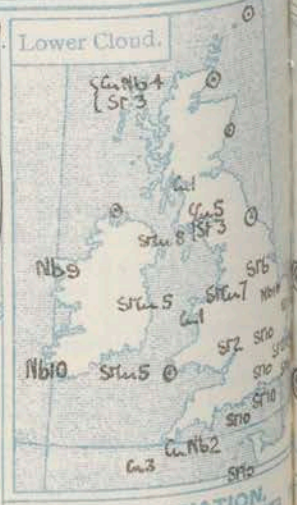
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
4A	11.3	0430	41	43
10	11.3	0355	44	46
5	11.3	0812	46	43
3	11.3	1015	47	45
8	11.3	1015	45	46
6	11.3	1500	48	52





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 the way 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; snow; sleet; fog; mist; T thunder; E thunderstorm; rain; hail.
SEA DISTURBANCE.—Rough; High.

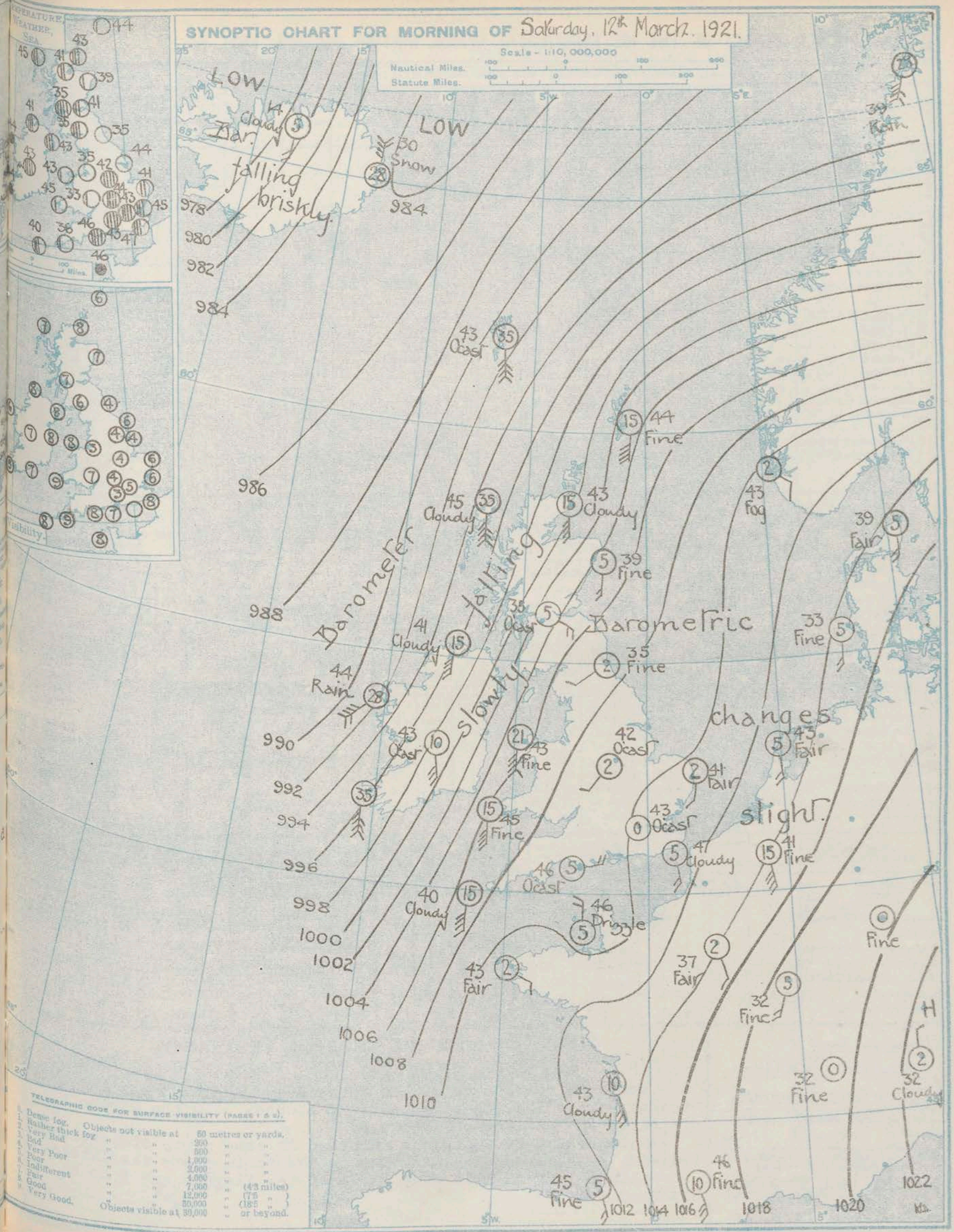
GENERAL INFERENCE from observations received up to 9h

A depression which is spreading over Ireland will cause rain in most parts of the Kingdom some time during the ensuing 24 hours but the amount will probably be slight in the Eastern and South-eastern districts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday 12th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Wind mainly South, light or moderate; cloudy or dull generally, some rain or showers later. Visibility fair. Rather mild.	Winds between South & West. Moderate or mild temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind South, veering later to South-West or West, moderate or fresh, stronger at times on Coast. Much cloud, some rain. Visibility mainly fair. Rather mild.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind mainly South, light to fresh, cloudy or overcast; some rain or showers. Visibility fair. Milder.	
12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind mainly South, moderate to strong or high; much cloud, occasional rain or drizzle. Visibility indifferent to fair. Moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind South, veering towards West, fresh or strong, high in places, much cloud, some rain, then fairer. Visibility fair to good. Moderate temperature.	

R.S.

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 Saturday, 12th March. 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar. falling briskly.
LOW
Barometric changes slight.
Barometer falling slowly
H
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Rather thick fog " " 200 " "
2 Very Bad " " 500 " "
3 Bad " " 1,000 " "
4 Very Poor " " 2,000 " "
5 Poor " " 4,000 " "
6 Indifferent " " 7,000 " (4·3 miles)
7 Fair " " 12,000 " (7·5 ")
8 Good " " 20,000 " (12·5 ")
9 Very Good. " " 30,000 " or beyond.
Visibility

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 71 — SATURDAY 12th MARCH 1921

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	b bc	b	50	38	-	-	9.5
England, N.E.	Harrogate	o c bc	c o bc b	48	36	0.1	-	0.4
	Skegness	o c o	o	54	42	-	-	0.9
England, E.	Lowestoft ...	bc	bc b	50	42	-	-	5.5
	Felixstowe	bc	bc	51	42	-	-	8.3
	Southend-on-Sea...	bc	bc	57	41	-	-	7.0
England, S.E.	Tunbridge Wells	bc b bc	bc b	57	45	-	-	5.9
	Margate	bc bc	b	59	43	-	-	7.4
	Ramsgate	*	*	53	42	-	-	5.3
	Folkestone	oe. cb	b	56	43	-	-	5.1
	Hastings	oe	cbc b	51	45	0.4	-	4.2
	Eastbourne... ...	oc	bc	52	47	0.3	-	2.9
	Brighton	o	bc	52	41	-	-	3.1
	Worthing	o	bc b	52	42	0.3	-	3.3
	Portsmouth (S'thsea)	*	*	50	47	-	-	0.0
	Bournemouth ...	*	*	50	47	-	0.3	0.0
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 10th-11th	Rainfall. Day. 9h-17h. 11th	Sunshine. Sunrise to Sunset. 11th
England, N.W.	Blackpool	oc	qu	51	39	0.1	-	2.9
	Southport	co co	o co bc	49	38	-	0.1	0.8
Midlands.	Leamington Spa...	od	od	48	42	1	3	0.0
	Bath	r o	or	51	47	3	4	0.0
Wales.	Rhyl	bc	bc	50	38	-	1	1.3
	Colwyn Bay ...	*	*	49	38	-	1	0.2
	Llandudno	oc	d o c	53	38	-	-	1.2
	Aberystwyth ...	or c	bc c	49	40	-	1	2.5
England, S.W.	Weymouth	*	o	51	48	2	-	0.0
	Torquay	cbcr	c	50	45	2	0.1	0.0
	Paignton	op o	o.c.oc	52	44	2	Trace	0.1
	Penzance	opr c	bc	54	43	1	-	6.2
	Bude	p	b	51	42	0.3	2	3.4
	Ilfracombe	o	ocbc b	49	43	2	-	2.1

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 11th	Weather. 13h-18h 11th	Weather. 18h 11th-1h 12th	Weather. 1h-7h 12th	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	c	b or bc	b or bc	b or bc	49	35	28	-	-	8.4
Eskdalemuir	c	b	oo	c	46	35	33	2	-	4.5
Valencia (Cahirc'a) ...	b or bc	p	r or d	r or d	50	43	38	1	6	8.4
Baldonnel	c	b or bc	b or bc	c	50	37	28	2	-	6.9
MANCHESTER ... (Alex. Pk.)	oo	c	b or bc	b or bc	52	29	19	-	Trace	*
Ross on Wye... ...	r or d	oo	c	c	49	33	28	0.5	-	0.0
Falmouth	r or d	b or bc	b or bc	b or bc	53	33	27	4	-	3.8
Calshot (Hants)... ...	r or d	c	r or d	oo	50	45	?	0.1	Trace	0.1
Lympne (Folkestone) ...	p	b or bc	c	c	52	44	38	Trace	-	5.9
Aberdeen	b or bc	b or bc	b or bc	b or bc	49	35	26	-	-	7.9
Howden	oo	oo	r or d	oo	51	37	?	-	Trace	1.2
Cranwell (Lincs)	r or d	r or d	r or d	r or d	53	40	38	0.4	0.5	0.0
Felixstowe	b or bc	b or bc	oo	c	52	39	33	-	?	8.4
Shoeburyness	b or bc	b or bc	b or bc	b or bc	59	39	30	-	-	6.0
Benson	oo	oo	oo	oo	55	44	42	-	0.1	*
S. Farnborough ...	oo	oo	f or m	f or m	56	41	38	-	-	0.5
London (Kew Obsy.) ...	oo	c	f or m	f or m	57	42	34	-	-	0.2
Croydon	oo	oo	b or bc	oo	59	42	36	Trace	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; co = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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 0·9
1	1- 3	0·9- 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

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	o bc o	61	40	31	-	1.5	52	87
City (Bunhill Row)	*	*	*	*	*	*	*	0.6	*	*
Westminster (St. James's Park)	*	*	*	60	44	37	-	0.7	49	83
REGENTS PARK (BOTANIC GDNS)	*	*	*	*	*	*	*	0.8	*	*
Camden Sq. (British Rainfall)	bc	bc c	*	60	43	38	-	*	49	77
Kensington Palace	oc	co	*	59	42	36	-	*	? (18h)	92
Hampstead Observatory ...	*	*	*	56	43	?	-	0.1	*	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.

12th & 13th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.16 / 6.16	12.3 / 12.2	5.49 / 5.50
Greenwich	6.24 / 6.22	12.10 / 12.10	5.58 / 5.58
Wick ...	6.41 / 6.38	12.22 / 12.22	6.3 / 6.2
Valencia ...	7.5 / 7.3	12.27 / 12.27	6.51 / 6.50

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

Exposure from 18 h 45 m. to 5 h 30 m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	10 · 45	5 · 24	50
δ Ursae Minoris	10 · 45	4 · 37	43

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 59° at Margate, Shoeburyness and Croydon, as well as in some parts of London. In the Northern districts the maxima were below 50°.

Much bright sunshine was recorded in some parts of Scotland, Ireland, and Eastern England, but in the South there was little.

Slight rain fell in many parts of the Kingdom and 9 mm at Blacksod Point.

* 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.21,661 ....SUNDAY, 13TH MARCH....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.	Total 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.	Total Amt. 0-10.	Sea 0-9.
	13h. G.M.T. of 12th														18h. G.M.T. of 12th													
Renfrew	1011.4	-3	S	3	co	45	90	7	2500	St Cu	7	A St	10	*	999.0	-1	SSE	5	r+	44	85	6	800	Nb	10	-	10	*
Eskdalemuir	1003.2	-3	S	4	co+	42	86	6	2000	Cu	1	A St	9	*	1001.5	-1	S	6	c+	42	90	7	2000	St Cu	10	-	10	*
Valencia (Cahirc'n)	999.4	-1	S	4	co/r	50	85	8	1500	St Cu	4	A Cu	7	*	994.6	+3	S	4	co-	47	95	8	2500	Cu	1	Ci	7	4
Baldonnel	999.2	-4	S	7	rr	45	85	8	2500	St	10	-	10	*	996.8	0	S	7	r	46	85	8	1500	St	10	-	10	*
Manchester (Alex Pk)	1006.4	-3	S	4	co+	50	85	8	2500	Cu	1	Ci	7	*	1005.1	+1	S	3	co	48	85	8	2500	St Cu	2	A St	10	*
Ross on Wye	1007.9	-2	SW	3	co+	51	90	6	4,000	Cu	6	Ci St	9	*	1006.9	0	SW	4	co+	47	93	8	1500	Nb	3	A St	10	*
Falmouth	997.1	-2	SSW	4	Ci	50	85	8	-	Cu Nb	4	A St	10	*	1006.9	+2	SSW	6	r+	47	66	6	-	Nb	10	-	10	*
Calshot (Hants)	1010.0	0	SSW	4	r	48	92	7	1500	Nb	10	-	-	*	1009.7	0	SSW	4	co+	47	94	8	4000	St Cu	9	Ci	10	0
Lympne (Folkestone)	1011.5	+1	S	4	bc	49	90	8	4,000	St Cu	6	A Cu	8	*	1011.3	0	SSE	2	co	48	85	8	1500	St	9	-	9	*
Aberdeen	1002.7	-3	S	4	co+	44	95	7	-	-	-	A St	10	*	1000.8	-1	S	3	co-	45	95	6	4,000	St Cu	8	-	8	*
Howden	1008.6	-3	S	3	bc	52	65	5	2500	St	5	A Cu	6	*	1005.6	0	S	3	co+	47	90	7	4,000	St	4	Ci	10	*
Cranwell (Lincs)	1008.9	-1	SSW	3	d	49	85	6	1500	Nb	7	A St	8	*	1007.7	0	S	3	co	46	92	6	4,000	St Cu	6	A St	9	*
Felixstowe	1011.9	0	S	3	co	50	95	7	1500	St Cu	7	A Cu	8	*	1011.6	0	S	4	r+	48	94	7	4000	St Cu	10	-	10	0
Shoeburyness	1010.4	0	SSW	2	bc+	55	90	7	-	-	-	A Cu	7	*	1010.2	0	SW	3	co/r	49	95	5	2000	Cu	7	A St	9	*
Benson	1008.6	0	S	2	co	49	90	6	-	St	10	-	10	*	1008.1	0	S	3	bc	46	92	6	-	-	-	Ci	3	*
S. Farnborough	1009.3	-1	S	2	co	51	85	7	1000	St Cu	10	-	10	*	1009.7	0	S	2	bc-	47	92	7	1500	St	4	Ci Cu	7	*
London (Kew Obsy.)	1009.5	-1	S	3	co/r	52	90	6	2500	St Cu	10	-	10	*	1009.9	+1	SSW	3	co-	50	85	6	4000	St Cu	3	A Cu	8	*
Croydon	1010.2	-1	S	5	r	51	85	7	1500	St	6	A Cu	10	*	1012.4	+1	SW	4	co/r	48	92	7	800	St	10	-	10	*
	1h. G.M.T. of 13th														7h. G.M.T. of 13th													
Renfrew	999.0	0	S	4	co/r	46	92	6	1500	St Cu	9	-	9	*	999.0	0	ESE	3	co-	45	92	7	1500	St Cu	8	A Cu	9	*
Eskdalemuir	1001.3	-1	S	6	d	41	97	6	1500	Nb	10	-	10	*	1001.0	-1	SSE	3	co/r	42	97	6	1500	St	10	-	10	*
Valencia (Cahirc'n)	994.9	0	SW	4	r	42	*	*	*	*	*	*	*	*	993.9	-1	SSW	3	co	43	85	8	2500	St	6	A St	10	2
Baldonnel	998.2	+1	SSE	5	bc-	46	85	6	-	-	-	A St	2	*	996.8	-2	ESE	1	co+	45	85	8	2500	St Cu	8	A St	10	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.5	-2	SSE	3	d	46	92	10	800	St	10	A St	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.2	-2	SSW	4	co-	45	85	8	2500	Nb	2	A Cu	6	*
Falmouth	1005.1	-2	SSW	4	r	47	92	6	-	Nb	10	-	10	*	1002.0	-1	SSW	6	r	47	92	5	-	Nb	10	-	10	*
Calshot (Hants)	1008.8	-2	S	4	bc-	49	97	8	4,000	St Cu	4	-	4	*	1007.7	0	S	4	co-	48	92	8	2500	St	6	A St	8	0
Lympne (Folkestone)	1010.9	0	S	4	co/r	46	85	7	1500	St	10	-	10	*	1010.1	0	SSE	5	r	46	85	8	800	Nb	5	A St	9	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.0	+1	S	4	co	44	92	6	1500	St	7	-	7	0
Howden	1006.8	0	S	3	rr	44	97	5	1500	Nb	10	-	10	-	1006.8	-2	ESE	1	co+	45	85	8	2500	St Cu	8	A St	10	*
Cranwell (Lincs)	1008.3	0	S	3	cr	42	97	7	-	-	-	A St	10	*														*
Felixstowe	1011.8	0	S	3	bc/r	45	97	8	4000	St Cu	2	-	2	*	1011.2	0	S	4	co+	46	85	8	4000	St Cu	4	A St	9	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.2	-1	SW	2	bc/r	46	85	7	2500	Cu	6	-	6	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.9	-1	S	5	co	48	92	7	2500	St	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.8	-1	SSW	2	co	48	92	8	1500	St Cu	10	-	10	*
London (M.O. at 1h.)	1009.3	-1	*	*	*		*	*	*	*	*	*	*	*	1008.3	0	SSE	3	co/r	49	85	8	2500	St Cu	10	-	10	*
Croydon	1010.2	-1	S	3	co/r	45	92	7	2500	St	9	-	9	*	1009.6	0	S	3	co	47	85	8	1500	St	9	A 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. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F	Temp. Min. Night. °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	1000.3	44	S	6	co	999.5	+1	45	+1	S	4		co	3	-	-	46	42	c	c	bo c	*
Stornoway	989.4	44	S	7	r	992.1	+1	45	0	S	6		co-	5	1	2	46	40	oo	r or d	p bc bc	0.0
Malin Head	990.5	45	SW	4	co-	992.9	0	42	+1	SW	3		bc-	1	Tr	01	45	41	c or d	c	b or bc	0.2
Blacksod Point	989.4	46	SW	4	co	991.1	-2	45	+1	SW	4		co+	4	4	03	46	38	c or d	p	p c	*
Roche's Point	996.9	49	SW	4	co/r	996.9	-1	43	-4	NW	4		rr	7	13	6	50	43	c or d	r or d	bo r bc	*
Birr Castle	994.1	47	SE	3	r	994.9	*	42	-1	S	1		co/r	*	2	1	47	39	c or d	r or d	r or d	0.1
Donaghadee	998.2	44	SW	5	co/r	998.3	-1	46	+3	S	2		co/r	1	1	Tr	49	42	oo	r or d	r or d	*
Liverpool (Sidston)	1004.0	46	S	3	co	1001.5	-3	45	+10	SE	3		co+	1	-	-	50	45	b or bc	c	c	3.3
Holyhead	1001.4	45	SSW	6	r	998.6	-3	45	+2	SSE	6		r	4	03	7	49	45	oo	r or d	p c Tod	1.5
Pembroke (St. Ann's Head)	1003.5	45	S	6	rr	999.4	-1	46	+1	S	7		r	7	2	7	48	44	c	oo	r or d	1.6
Scilly (St. Mary's)	1005.3	47	S	5	r	1000.0	-3	49	+4	S	4		co/r	6	1	6	50	45	c	r or d	p	[illegible]
Jersey (St. Aubin)	1010.0	48	S	2	co/r	1008.5	0	49	+3	S	4		co	3	Tr	-	51	47	p	r or d	c	0.0
Portland Bill	1009.3	49	S	5	co	1005.9	-4	48	+2	SSW	5		bc	6	-	1	50	45	c	c	r or d c	*
Dungeness	1010.9	48	S	1	cor	1010.3	-1	48	+1	S	3		co	4	-	2	52	46	c	b or bc	p b or bc	*
Wick	995.8	44	S	7	co-	995.5	0	44	+1	S	6		bc-	6	-	-	45	42	oo	oo	b or bc c	*
Nairn	993.3	44	SW	7	c	996.2	*	43	+2	-	0		bc	1	-	-	47	40	bc g c	g c	g c bc	0.4
Leith	998.7	46	SW	2	0	999.5	0	45	+4	SSW	1	SW	c	1	-	-	49	41	bc c bc	bc g c	g c o c	*
Tynemouth	1003.2	49	SW	4	bc	1003.8	0	45	+10	SW	3		co+	1	-	-	51	42	c	c	oo	*
Spurn Head	1007.0	46	SW	3	co/f	1006.0	-1	45	+1	S	4		bc+	3	1	03	48	41	f or m	r or d	b or bc	*
Yarmouth (Gorleston)	1010.0	49	SSW	5	co+	1010.2	0	46	+5	SSW	5		co/r	0	-	1	54	44	b or bc	b or bc	p	3.0
Clacton-on-Sea	1010.4	47	SSE	3	co	1009.7	0	46	+1	SSE	4		p	1	-	1	49	44	c	c	r or d	0.1
Nottingham	1006.7	49	S	4	cr	1004.8	*	48	0	S	3		co	2	-	1	53	45	b or bc	c	r or d	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. 4.

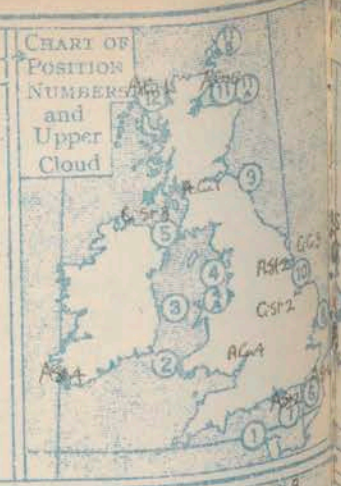
M.O. FORM 2370

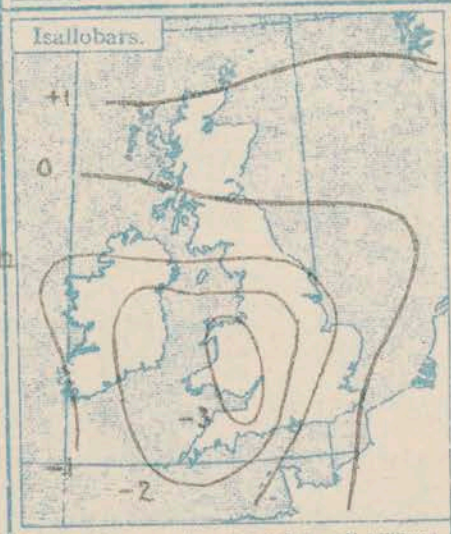
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 13.3.1921.

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

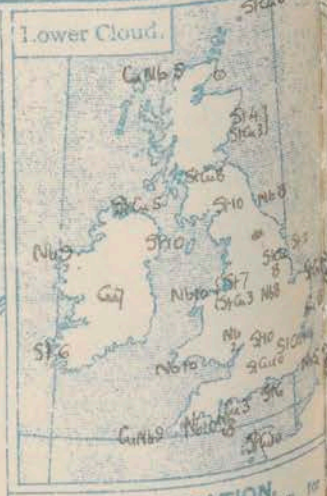
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
2	12th	0220	46	46
7	12th	0325	47	50
4	12th	0455	44	44
5	12th	0821	46	45
3	12th	0945	46	46
1	12th	1215	49	52
2	13th	0220	48	48
7	13th	0257	47	51





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 C-13, 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. E thunderstorm.

SEA DISTURBANCE.— Rough. High.

GENERAL INFERENCE from observations received up to 9h.

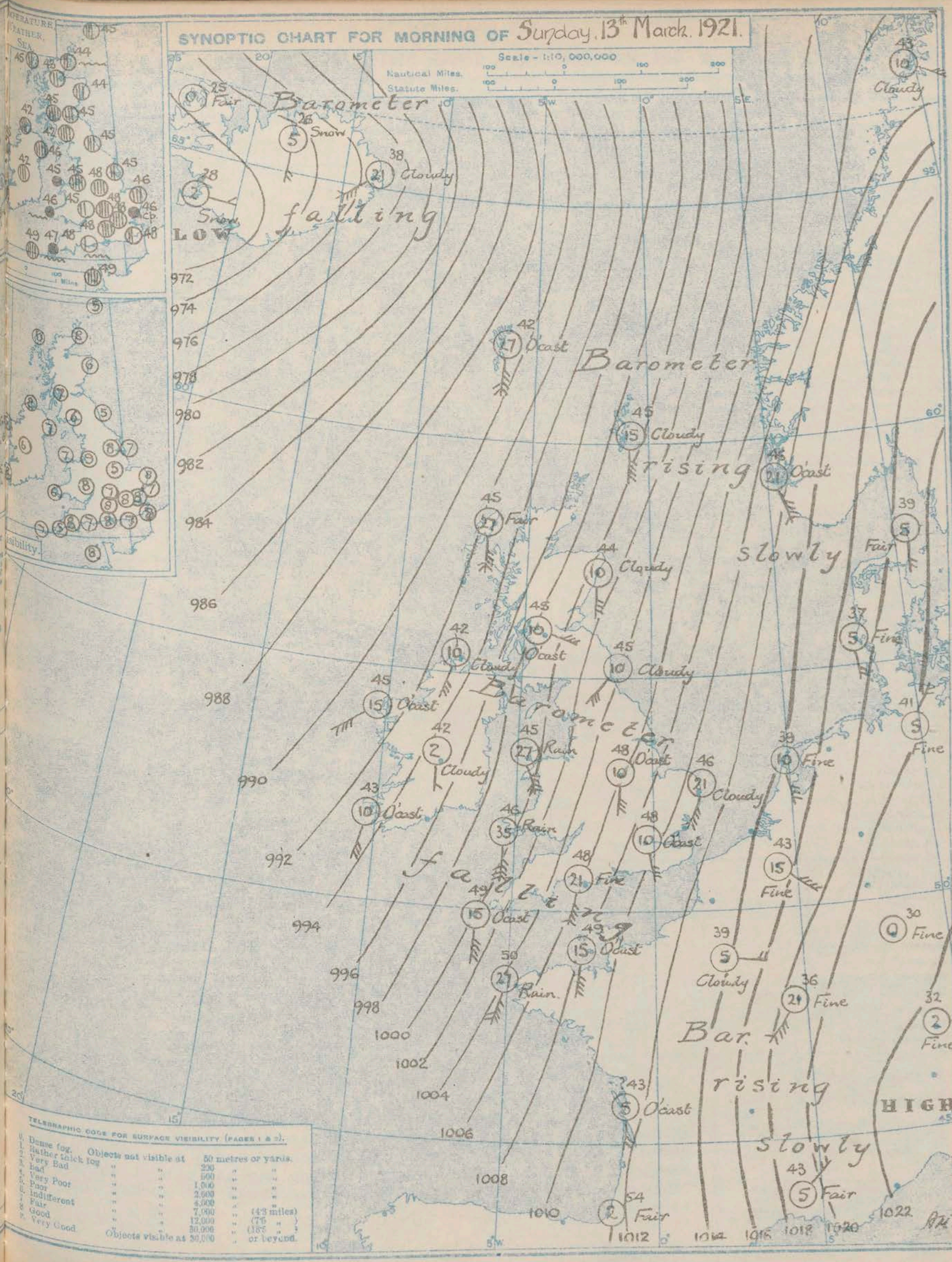
The general situation shows little change and winds are likely to continue from South to South-West. Weather will remain mild and unsettled.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Sunday, 13th March, 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 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 South to South-West, moderate to strong; cloudy or overcast, rain in places, visibility fair; rather mild.	Mild unsettled weather, with winds mainly South or South-West.

G.F.6

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. 13th March. 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Barometer falling
LOW
Barometer rising slowly
Barometer falling
Bar. rising slowly
HIGH
Fair
Snow
Cloudy
O'cast
Rain
Fine
972
974
976
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4·3 miles)
7. Fair " " 12,000 " (7·5 ")
8. Good " " 30,000 " (18·5 ")
9. Very Good " Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 77 ... SUNDAY, 13th MARCH

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	bc. c	c.	46	34	-	?	3.3
	Montrose.	bc c		46	33	-	-	2.9
England. N.E.	Harrogate	b	b	52	38	-	-	6.0
	Skegness	o	o.up.cr.o	53	43	0.2	3	0.1
England. E.	Lowestoft ...	c	cp	52	42	-	-	2.9
	Felixstowe	rm	cg m	49	44	-	-	1.3
	Southend-on-Sea...	o	od	45	43	-	0.1	0.2
England. S.E.	Tunbridge Wells	o.c	cp.o.or	53	42	-	1	0.6
	Margate	c.bc.b	bc.c	54	46	-	-	3.4
	Ramsgate	*	*					
	Folkestone	c	bc.c	54	40	-	-	1.2
	Hastings	o	c.or	51	45	TR.	1	0.1
	Eastbourne... ...	o.c.o	r.cp.o	52	43	-	1	0.3
	Brighton	cp	cp	41	41	1	1	0.0
	Worthing	o	o	50	41	-	1	0.0
	Portsmouth (S'thsea)	+	+	50	44	-	1	0.0
	Bournemouth ...	*	*	50	52	-	-	0.8
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 11th-12th	Rainfall. Day. 9h-17h. 12th	Sunshine. Sunrise to Sunset. 12th
England. N.W.	Blackpool	x	o.c.o	50	31	0.2	?	4.1
	Southport	b.bc.c.o	o	50	33	-	-	4.2
Midlands.	Leamington Spa...	bc	c.b	54	40	1	-	4.5
	Bath	bc.b	b.bc.c	53	40	1	-	4.4
Wales.	Rhyl	bc	bc.c	51	31	-	-	?
	Colwyn Bay ...	+	+	49	?	-	-	2.4
	Llandudno	*	*	50	34	-	-	4.3
	Aberystwyth ...	o.cf	c.c.o	49	35	-	-	
England. S.W.	Weymouth	c	c	54	43	-	-	1.2
	Torquay	c.com.b.bc	bc.c	51	38	-	-	4.0
	Paignton							
	Penzance							
	Bude	b	b	51	32	-	-	1.0
	Ilfracombe	b.bc.c.o	o	51	34	-	-	1.6

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 12th	Weather. 13h-18h 12th	Weather. 18h 12th-1h 13th	Weather. 1h-7h 13th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
								mm.	mm.	
Renfrew ...	oo	r or d	r or d	r or d	47	41	41	0.5	3	0.2
Eskdalemuir	c	oo	r or d	r or d	44	39	38	·	7	2.6
Valencia (Cahirc'e) ...	r or d	b	b	b	54	42	38	22	3	1.6
Baldonnel	r or d	r or d	bc bc	c	46	43	38	+	0.1	0.0
Manchester (Alex. Pk.)	c	oo	r or d	r or d	51	45	42	TR.	1	*
Ross on Wye... ...	b or bc	c	b	b	52	45	39	-	3	5.0
Falmouth	oo?	r or d	oo	r or d	50	44	43	0.4	5	2.8
Calshot (Hants)... ...	r or d	b	oo	b or bc	49	46	?	-	-	0.1
Lympne (Folkestone) ...	c	b	r or d	b	51	45	42	TR.	2	0.6
Aberdeen	c	oo	c	c	46	38	41	-	-	3.5
Howden	b or bc	c	r or d	c	52	43	38	·	0.1	0.0
Cranwell (Lincs)	r or d	c	oo		52			0.2		-
Felixstowe	c	p	b	c	52	44	42	0.1	1	1.4
Shoeburyness	c	p	b	b	56	44	40	0.1	0.6	0.1
Benson	oo	c	oo	oo	51	43	43	0.2	-	*
S. Farnborough ...	r or d	oo	oo	oo	53	44	41	0.3	0.1	0.1
London (Kew Obsy.) ...	oo	c	r or d	r or d	52	47	43	-	5	0.1
Croydon	r or d	r or d	r or d	oo	52	47	42	0.5	1	*

WEATHER. (p. 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0-5; co = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	28·5-32·6
12	Above 75	32·6 or above

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	o.p	c.bc.o.p.o	54	45	39	1	0.10	82	80
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*								
Regent's Pk. (Botanical Gdns)	*	*	*	*	*	*	*		*	*
Camden Sq. (British Rainfall)	o	o	*	54	48	44	1	*	76	78
Kensington Palace	o	o	*	53	47	44	0.5	*	85 (18h)	81
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.

13th and 14th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6.16	12.3	5.50
	6.14	12.3	5.52
Greenwich	6.22	12.10	5.58
	6.19	12.10	5.59
Wick ...	6.38	12.22	6.5
	6.35	12.22	6.8
Valencia ...	7.3	12.31	6.34
	7.0	12.31	6.40

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 most localities but except in Ireland the amount was small. At Valencia 25mm were measured. Sunshine was nowhere very abundant, the highest record being 6.0 hours at Harrogate, while in the South-East the day was almost entirely overcast. Temperature continued rather above the normal for the time of year.

* 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. 21,662 ....Monday 14th March....1921.

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

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

Stations	13H Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9	18H Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	994.7	-5	SSE	4	co/r	49	85	7	1500	St.Cu	5	A.St	9	*	998.0	+4	S	2	co-	44	85	8	4000	St.Cu	4	Ci	7	*
Eskdalemuir	~~[illegible]~~	-3	SSE	3	dd	44	97	4	1500	Nb	10	-	10	*	999.8	+1	S	4	r_0r_0	44	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	995.8	+1	SSW	4	bc	49	65	8	4000	Cu	2	A.Cu	6	*	999.2	+3	SW	4	pr_0	43	85	5	2500	St.Cu	7	A.Cu	9	6
Baldonnel	997.0	+2	S	2	co/r	44	92	8	2500	St.Cu	3	Ci	8	*	998.1	+2	S	3	co	44	75	9	7200	St.Cu	3	A.St	10	*
Didsbury	1001.8	-1	S	3	co	50	75	7	1500	St	10	-	10	*	1001.1	0	SE	3	co	48	85	6	1500	St.Cu	10	-	10	*
Ross on Wye	1003.4	-1	S	4	rr	48	92	5	1500	Nb	10	-	10	*	1002.0	-2	SSW	4	PR-	47	92	8	2500	Cu.Nb	8	Ci	9	*
Falmouth	1001.4	-1	SSW	5	R-	48	92	6	-	Nb	10	-	10	*	1003.8	+3	SW	4	pr_0	45	85	7	-	Cu.Nb	4	A.Cu	5	*
Calshot (Hants) *	1007.2	-1	S	6	co	52	78	8	1500	St.Cu	10	-	10	*	1006.4	-1	SSW	5	co	49	92	8	1500	St.Cu	~~10~~ 9	-	~~10~~ 9	3
Lympne (Folkestone)	1009.6	-2	S	5	PR-	49	85	8	1500	Nb	10	-	10	*	1008.8	0	S	5	pr_0	49	85	9	2500	St.Cu	5	A.St	10	*
Aberdeen	1000.0	-3	SSE	4	d_0	45	97	6	1500	Nb	10	-	10	*	998.8	-1	S	4	bc/r	46	85	5	1500	Nb	4	-	4	3
Howden	1003.3	-1	S	6	co	52	65	7	1500	St	10	-	10	*	1003.2	0	S	4	r_0r_0	47	92	6	225	Cu.Nb	8	A.St	10	*
Cranwell (Lincs)	1005.0	-2	SSW	6	co	65	65	8	2500	St.Cu	10	-	10	*	1006.2	-1	SSW	6	pr_0	51	75	8	-	Nb	10	-	10	
Felixstowe	1010.6	-1	S	4	co	50	85	8	5750	St.Cu	6	A.St	8	*	1009.7	-1	SSW	3	co	48	85	8	4000	St.Cu	9	A.St.	10	3
Shoeburyness	1004.0	0	SSW	3	co/r	51	75	7	2500	St.Cu	7	A.St	9	*	1008.2	-2	SSW	4	co	51	75	7	2500	St.Cu	7	A.St	10	*
Benson	1006.7	-1	S	5	bc	53	65	8	4000	Cu	6	-	6	*	1004.6	-1	S	4	bc	48	92	7	4000	Nb	10	-	10	*
S. Farnborough	1006.7	-2	SSW	5	co-	56	75	8	2500	"	-	A.St	8	*	1006.6	-1	SSW	3	d_0d_0	49	92	7	800	Nb	10	-	10	*
London (Kew Obsy.)	1007.1	-2	S	4	co-	54	65	8	2500	Cu	6	A.Cu	7	*	1006.9	-1	S	3 ~~4~~	co/r	51	75	6	1500	St.Cu	7	A.St	10	*
Croydon	1008.6	-0	S	5	co	52	75	8	2600	St.Cu	7	A.Cu	9	*	1007.6	-1	S	4	rr	49	85	7	1500	St	10	-	10	*

1H. G.M.T. of 14th / 7H. G.M.T. of 14th

Stations	1H Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9	7H Barom. at M.S.L. mb.	‡ Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility § 0-9	Height of Low Cloud Feet	Low Cloud Form	Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	999.5	+1	S	2	co	40	92	4	2500	St.Cu	9	-	9	*	1002.1	+3	SSE	3	co+	40	92	6	2500	St.Cu	7	-	7	*
Eskdalemuir	1001.0	+3	SW	4	rr	36	92	5	1500	Nb	10	-	10	*	1004.0	+3	S	3	co/r	39	92	6	1500	St	10	-	10	*
Valencia (Cahirc'n)	998.3	0	SW	2	co/r	40	*	*	*	*	*	*	*	*	1000.4	+3	WSW	4	pr_0	41	85	8	2500	Cu.Nb	10	-	10	4
Baldonnel	1000.8	+2	S	4	bc	40	85	8	-	-	-	-	-	*	1007.2	+2	SSW	4	co-	40	55	8	5750	St.	4	Ci.St	7 ~~8~~	*
Didsbury	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.9	+5	S	4	co+	41	85	6	2500	St.Cu	7	Ci	8	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+3	S	3	co	43	85	8	2500	Nb	4	A.St	10	*
Falmouth	1007.4	+2	SW	4	pr_0	45	75	7	-	Nb	8	-	8	*	1006.6	+3	S	7	r_0	48	85	6	-	Nb	10	-	10	*
Calshot (Hants)	1010.2	+4	SW	4	bc/r	46	85	8	-	-	-	-	-	*	1013.9	+5	SSW	5	bc/r	46	85	8	2500	St	?	Ci.St	?	0
Lympne (Folkestone)	1011.1	+3	S	3	bc-	44	92	8	4000	St.Cu	2	-	2	*	1015.9	+6	SSW	5	bc	43	92	8	2500	Cu	3	-	3	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.2	+5	SSW	3	bc/r	40	97	5	4000	St.Cu	4	Ci	6	0
Howden	1004.4	+4	SSW	1	bc-	40	92	7	-	-	-	-	-	*	1009.1	+6	S	3	bc	37	97	7	2500	St	3	-	-	*
Cranwell (Lincs)	1006.3	+2	S	3	pr_0	44	97	8	1500	Nb	10	-	10	*	1010.9	+5	SSW	3	bc	39	97	8	2500	Cu	1	Ci.St	2	*
Felixstowe	1010.8	+2	SSW	4	cpr_0/r	46	92	7	2500	St.Cu	6	-	6	*	1015.8	+7	SSW	4	bc+	44	92	8	2500	Cu	1	-	1	4
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	+5	SW	4	bc/r	44	85	7	4000	Cu	1	-	1	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.9	+4	S	4	bc+	41	92	8	-	Cu	1	Ci.St	5	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.4	+4	S	3	co+	42	97	7	2500	St	3	A.Cu	7	*
London (M.O. at 1H.)	1009.3	+2	*	*	*	46	*	*	*	*	*	*	*	*	1013.9	+5	SW	3	bc/r	45	85	7	1500	Cu	4	Ci.St	5	*
Croydon	1010.1	+2	SSW	5	bc/r	44	85	8	2500	St	1	-	1	*	1014.4	+4	S	5	pr_0	45	85	8	800	Nb	8	A.St	9	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18H. G.M.T. of 13th Barom. at M.S.L. mb.	Temp. °F.	Wind Direc.	Force 0-12	Weather	7H. G.M.T. of 14th Barometer at M.S.L. mb.	‡ Change in 3 hours	Temperature Temp. °F.	Change in 24 hours	Wind Direc.	Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	Rainfall mm. † Day	Night	24 hours ended 7H. 14th Temp. Max. Day °F	Min. Night °F	Weather Morning	Afternoon	Night	Sunshine Hours 13th
Lerwick																						
Stornoway	991.1	45	SE	5	d_0d_0	997.7	-4	45	0	ESE	5	-	co/r	3	1	2	46	40	oo	r or d	r or d	ẋ
Castlebay (Barra Is)	992.5	45	S	4	co+	995.7	+1	42	-3	SW	5	-	PR	5	1	3	50	42	c	p	p.	2.5
Malin Head	993.8	46	SSW	3	bc+	995.8	0	39	-3	SSW	3	-	bc+	3	-	-	49	38	b or bc	b or bc	b or bc	5.4
Blacksod Point	993.0	46	SW	3	co/r	996.0	+2	44	-1	SW	3	-	pr_0	2	4	6	45	41	b or bc	p	h or hr	*
Roche's Point	999.1	47	SW	4	bc-	1001.9	0	44	+1	SW	1	-	co/r	1	0.4	3	50	41	b or bc	c	r or d	*
Birr Castle	996.5	49	SW	1	co-	1000.8	*	37	-5	SSE	1	-	co+	*	1	-	50	36	r or d.	c	c	2.9
Donaghadee	998.2	44	SSW	2	bc+	1001.8	+2	41	-5	SW	1	-	pr_0	1	3	0.2	49	37	r or d	b or bc	c	*
Liverpool (Bidston)	1000.5	45	SSW	1	d_0+	1006.4	+2	40	-5	SE	3	-	bc/r	1	0.6	7	52	38	c	p	b or bc	0.4
Holyhead	999.2	46	SW	3	co	1004.0	+2	45	0	SSW	4	-	co/r	1	6	3	50	42	r or d	c	b or bc r or d	0.6
Pembroke (St. Ann's Head)	1000.1	45	S	4	pr_0	1005.8	+1	47	+1	SSW	4	-	co+	4	6	1	49	43	oo	p	c	0.0
Scilly (St. Mary's)	1003.6	47	W	4	co-	1004.8	-2	46	-3	S	5	-	co+	?	5	?	51	43	p	p	p	2.6
Jersey (St. Aubin)	1007.8	51	S	4	co	1015.6	+1	46	-3	S	4	-	bc/r	3	Tr	0.4	53	46	oo	p	p	0.8
Portland Bill	1004.5	49	SSW	6	r_0	1010.7	+3	48	0	SW	6	-	bc-	6	2	2	52	42	r or d	r or d	c. b or bc	*
Dungeness	1008.7	50	SW	4	co	1015.4	+7	45	-3	WNW	5	-	bc-	5	1	10	52	46	p	p	r or d b or bc	*
Wick	994.8	46	S	6	co	997.8	+2	41	-3	SSW	3	-	co	0	-	-	47	38	b or bc	c	b or bc. c	*
Nairn	996.0	42	SSW	2	c	998.6	*	37	-6	-	0	-	bc	0	0.1		51	33	bc cq	q cp u	c. bcx	2.7
Leith	997.7	49	SSW	2	c	1002.2	+2	39	-6	SW	1	SW	bcz	1	7*		52	39	cq. o.c.	c. uq. c.	cd. or b	*
Tynemouth	999.7	49	SSW	5	co	1005.1	+2	41	-4	SW	4	-	bc	1	0.1	0.3	51	40	p	c	p	*
Spurn Head	1004.1	50	S	6	bc+	1009.2	+4	42	-3	SW	5	-	bc	3	-	1	54	38	b or bc	c	p. b or bc	*
Yarmouth (Gorleston)	1008.7	48	S	5	co+	1013.2	+6	42	-4	SW	4	-	bc-	0	-	0.5	52	41	c	c	r or d. c	4.1
Clacton-on-Sea	1008.3	48	SSE	3	co	1014.4	+5	45	-1	S	4	-	bc/r	1	-	0.2	47	44	c	c	r or d	1.0
Nottingham	1003.7	50	S	3	pr_0	1010.0	0	41	-7	S	3	-	bc-	*	1	0.1	55	39	c	p	p	2.1

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 6.

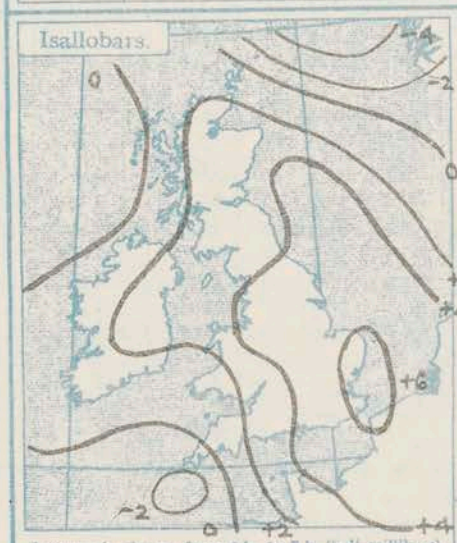
M.O. FORM 2370.

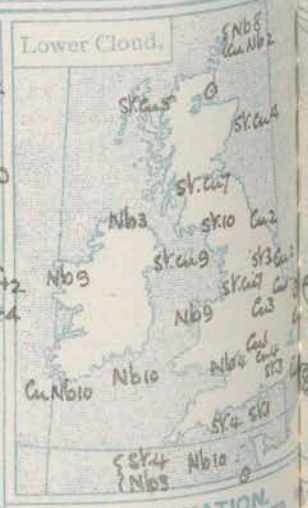
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 14.3.21.

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

Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
4	13th	0700	45	46
3	13th	1015	47	48





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; ⚡ thunderstorm.
SEA DISTURBANCE.—Rough; High seas.

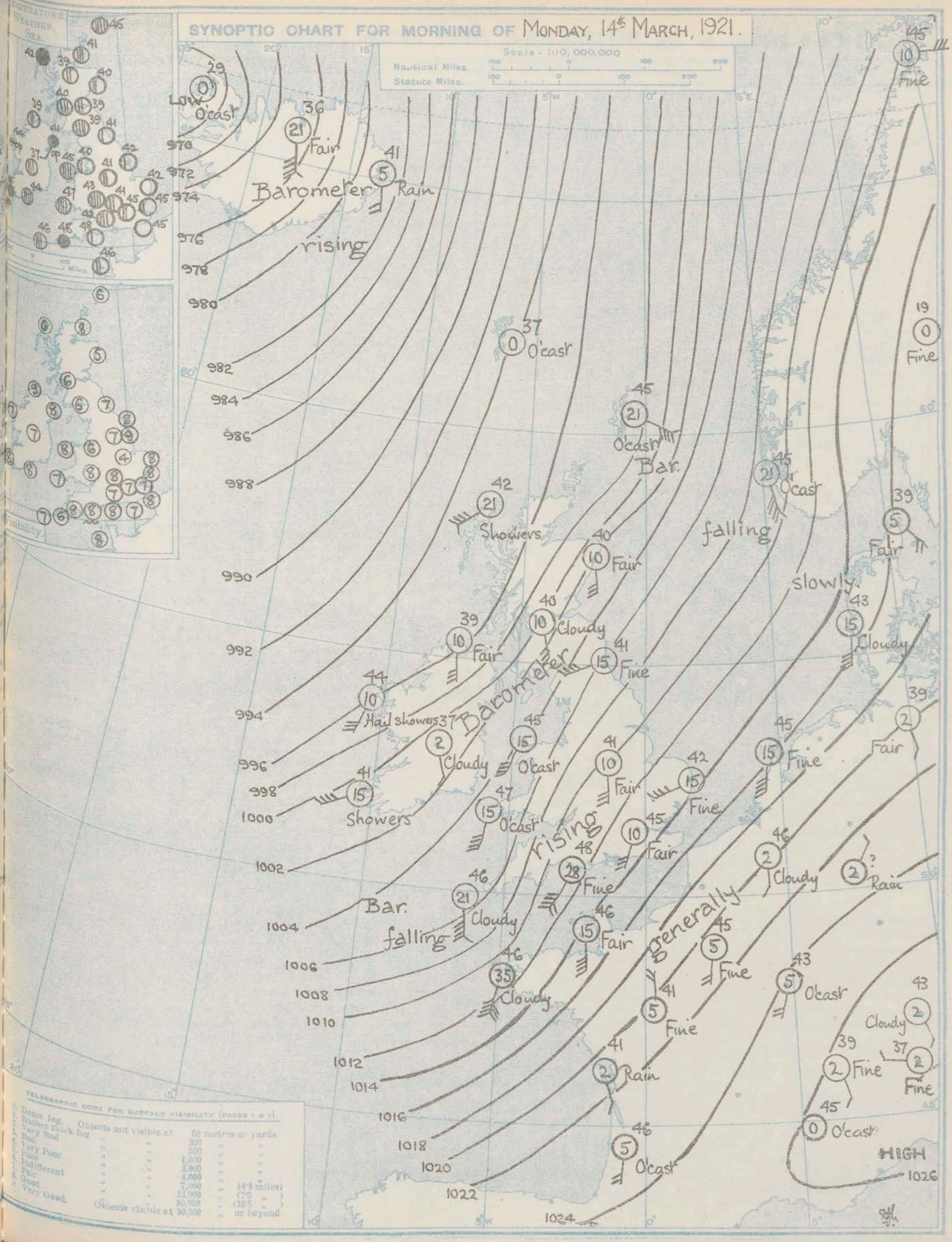
GENERAL INFERENCE from observations received up to 9h.

Rather mild weather is probable for a day or two with South to South-West winds. Showers are likely to occur on our Western coasts but elsewhere conditions will be mainly fair.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Monday, 14th March, 1920.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh South to South-West winds; varying amount of cloud; visibility fair to good; mild.	Mainly fair and rather mild over Eastern and South Eastern England for at least two days.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind South-West, fresh to strong at first, but moderating; much low cloud at times, some passing showers; visibility fair to good; rather mild.	
9. N. Midlands 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	Fresh to moderate South to South-West winds; much low cloud, some passing showers; visibility mainly good; rather mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light to moderate South-West wind; fair to dull, some passing showers; visibility mainly good; rather mild.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.40.

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


SYNOPTIC CHART FOR MORNING OF MONDAY, 14th MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility.
LOW
Barometer rising
Bar. falling
Barometer rising generally falling slowly.
HIGH
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Heavy thick fog " " " 200 " "
Very Bad " " " 500 " "
Very Poor " " " 1,000 " "
Poor " " " 2,000 " "
Indifferent " " " 4,000 " "
Fair " " " 7,000 " (4·3 miles)
Good " " " 12,000 " (7·5 "
Very Good " " " 30,000 " (18·5 "
Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 73 {Monday, 14th March, 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 12th-13th	Rainfall. Day. 9h-18h. 13th	Sunshine. Sunrise to Sunset. 13th
Scotland.	Banff	bc c	bc	48	43	-	0.2	1.9
	Montrose							
England, N.E.	Harrogate	or	or	50	41	6	2	0.8
	Skegness	b	b or c	54	44	1	-	4.0
England, E.	Lowestoft ...	bc c	c o	52	45	0.2	-	4.5
	Felixstowe	cm	o q	49	45	1	-	1.2
	Southend-on-Sea...	or	o c or	53	45	0.4	-	0.9
England, S.E.	Tunbridge Wells	o c o	o c or	54	45	3	1	0.6
	Margate	c	o	?	47	1	0.2	1.3
	Ramsgate	*	*	54	45	0.2	*	1.5
	Folkestone	o e c	o e. o c	54	45	1	0.3	2.5
	Hastings	or p c	o c b c q	51	46	3	0.2	1.2
	Eastbourne	o	or	52	43	3	1	0.9
	Brighton	bc o	bc or	51	?	2	1	1.0
	Worthing	o c	c b c o	53	47	-	0.3	1.4
	Portsmouth (S'thsea)	*	*	52	46	-	1	0.6
	Bournemouth ...	*	*	50	46	-	1	0.2
		*	*					
England, N.W.	Blackpool	o	c o	52	44	0.2	-	0.1
	Southport	o c o	or or	55	44	0.1	0.2	0.7
Midlands.	Leamington Spa	c b	o	52	44	1	-	1.0
	Bath	or	r o	51	45	3	2	0.0
Wales.	Rhyl	c bc	c bc	55	41	-	0.2	1.8
	Colwyn Bay ...	*	*	54	49	1	0.3	4.7
	Llandudno	c d c	c r e	54	45	1	1	1.6
	Aberystwyth ...	r o c	r or	49	44	1	2	0.0
England, S.W.	Weymouth	c or p	p o p c	50	46	2	2	0.5
	Torquay	or p	bc c p	52	46	3	3	1.4
	Paignton							
	Penzance	c bc c	c or	52	46	11	3	2.0
	Bude	o	r	53	44	2	8	0.0
	Ilfracombe	or	or	50	49	9	10	0.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 13th	Weather. 13h-18h 13th	Weather. 18h-13h 14th	Weather. 18h-7h 14th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	r or d	b	c	c	50	37	30	3	-	0.8
Eskdalemuir	r or d	r or d	r or d	h or hr	46	35	34	8	12	0.0
Valencia (Cahire'n) ...	c	b	p	p	51	38	33	0.6	3	5.6
Baldonnel	r or d	b	b or bc	r or d	51	39	34	4	1	4.8
Didsbury ...	oo	r or d	b or bc	c bc	46	39	33	1	1	*
Ross on Wye... ...	r or d	r or d	p	p	49	40	34	6	0.5	1.1
Falmouth	r or d	b	b or bc	oo	52	42	40	-	0.3	0.5
Calshot (Hants)... ...	oo	r or d	p	p	52	44	?	2	1	0.5
Lympne (Folkestone) ...	b	b	p	b or bc	52	43	40	10	2	1.0
Aberdeen	b	r or d	r or d	r or d	47	38	32	0.6	6	0.4
Howden	oo	r or d	b or bc	b or bc	54	36	31	2	-	1.8
Cranwell (Lincs)	c	b	p	p	56	37	34	Trace	0.3	1.0
Felixstowe	c	c	r or d	b or bc	51	43	39	-	0.4	1.2
Shoeburyness	b	oo	b or bc	b or bc	54	42	38	Trace	0.5	0.4
Benson	c	f or m	b or bc	b or bc	55	39	32	0.5	1	*
S. Farnborough ...	oo	r or d	r or d	r or d	55	41	38	0.3	3	1.9
London (Kew Obsy.) ...	c	r or d	p	p	55	42	38	0.1	2	1.4
Croydon	b	r or d	r or d	p	54	42	37	1	1	*

WEATHER. (p. 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0-5; c o = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	28·5-32·6
12	Above 75	32·6 or above

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. 14th									
Greenwich (Royal Observatory)	o	or	?	58	41	34	2	1.9	61	75
City (Bunhill Row)	*	*	*	*	*	*	*	1.3	*	*
Westminster (St. James's Park)	*	*	bc	56	43	37	2	1.7	49	74
Regent's Park (Botanical Gdns)	*	*	*	*	*	*	*	2.9	*	*
Camden Sq. (British Rainfall)	?	?	*	57	43	38	2	*	?	73
Kensington Palace	or	or	*	56	48	39	2	*	81 (12h)	77
Hampstead Observatory ...	*	*	*	53	41	*	3	0.8	*	81

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.

14th & 15th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	6.14	12.3	5.52
	6.11	12.2	5.54
Greenwich	6.19	12.10	5.59
	6.17	12.9	6.2
Wick ...	6.35	12.22	6.8
	6.32	12.21	6.11
Valencia ...	7.0	12.51	6.41
	6.58	12.50	6.43

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

Exposure from 13th 19h ..m. to 14th 5h 15m

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10.	15	2.	16	22
δ Ursae Minoris	10.	15	0	33	5

NOTES ON THE WEATHER OF YESTERDAY.

There was not much rain on our Eastern coasts except in the South of Scotland, where Aberdeen and Edinburgh recorded 7 mm. At Eskdale heavy rain and hail yielded as much as 27mm.

The temperature exceeded 50° in most places and reached 55° at some inland stations in the South-East of England. In Ireland there were good records of bright sunshine, between 5 and 6 hours at Malin Head and Valencia.

* 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.21,663 Tuesday, 15th March 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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 14th													
Renfrew	1004.5	+2	SSE	3	co	47	76	7	2500	St.Cu	6	A.St	10	*
Eskdalemuir	1006.2	+1	S	4	co/r	43	85	6	2500	St.	10	-	10	*
Valencia (Cahirc'n)	1005.7	+7	N	4	bc-	45	75	9	4000	Cu	3	-	3	*
Baldonnel	1002.8	0	-	0	RR	34	85	4	800	Nb	10	-	10	*
Manchester (Alex Pk)	1007.4	-4	S	5	r	48	75	6	2500	Nb	7	A.St	10	*
Ross on Wye	1009.3	-1	SSW	5	r	45	92	6	1800	Nb	10	-	10	*
Falmouth	1007.2	+1	SSW	7	pr.	50	75	7	-	Nb	7	-	7	*
Calshot (Hants) *	1014.9	-1	S	7	bc-	52	75	8	2500	Cu	4	Ci.St	5	*
Lympne (Folkestone)	1017.5	0	S	6	bc-	50	75	9	1.500	Cu	1	Ci.St	3	*
Aberdeen	1005.1	+2	S	4	bc	49	75	8	2500	Cu	3	-	3	*
Howden	1010.0	0	SSE	6	0.0	49	75	6	4000	St	6	A.St	10	*
Cranwell (Lincs)	1012.2	0	S	6	C.0	50	75	8	2500	Cu	6	A.St	10	
Felixstowe	1017.6	+2	S	4	bc+	51	85	8	1.500	Cu	1	A.St	5	*
Shoeburyness	1016.7	+1	SW	6	bc+	55	65	7	4000	Cu	1	Ci.St	2	*
Benson	1012.0	-2	SSW	7	co	53	65	8	-	Cu	5	Ci	7	*
S. Farnborough	1014.5	-1	SSW	7	co+	53	65	8	4000	St.Cu	9	-	9	*
London (Kew Obsy.)	1014.9	-1	S	5	co+	53	65	8	2500	Cu	7	Ci	8	*
Croydon	1015.5	0	SSW	6	co	53	65	8	1.600	Cu	6	Ci.St	8	*
	1H. G.M.T. of 15th													
Renfrew	1010.5	+5	SW	2	bc/r	39	92	6	2500	St	3	-	3	*
Eskdalemuir	1012.4	+8	SSW	4	co+	36	97	5	2.500	St	10	-	10	*
Valencia (Cahirc'n)	1008.7	-7	SSW	4	bc/r	45	*	*	*	*	*	*	*	*
Baldonnel	1013.8	+3	S	5	bc	39	75	8	-	-	-	-	-	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1020.8	+4	W	2	bc	38	85	8	-	St	1	-	1	*
Calshot (Hants)	1020.9	+4	SW	3	bc-	41	92	8	-	-	-	-	-	*
Lympne (Folkestone)	1020.4	+3	SSE	4	bc	47	97	9	4000	St.Cu	3	-	3	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1016.9	+6	S	1	bc-	37	92	6	4000	St	1	-	1	*
Cranwell (Lincs)	1018.1	+4	WSW	1	bc-	42	97	7	-	-	-	-	-	*
Felixstowe	1020.8	+2	SSW	3	bc-	44	92	8	4000	St.Cu	3	-	3	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1020.0	+3	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	1020.3	+2	WSW	3	co/r	43	92	8	2500	St.Cu	10	-	10	*

STATIONS.	Barom. at M.S.L. mb.	‡ Change in 3 hours.	Wind. Direc.	Wind. Force 0-12.	Weather	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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. of 14th					7H. G.M.T. of 15th													
Renfrew	1010.2	+1	SSE	3	co	38	85	7	4000	St.Cu	3	A.Cu	7	*
Eskdalemuir	1014.2	+2	SSE	5	co-	37	92	8	1500	St	6	A.Cu	8	*
Valencia (Cahirc'n)	1004.7	0	S	6	R-	51	92	7	800	Nb	10	-	10	6
Baldonnel	1009.4	-2	S	7	rr	44	75	7	2.500	St	7	Nb	10	*
Manchester (Alex Pk)	1019.6	+4	SSE	3	bc+	39	85	6	2.500	St.Cu	2	Ci.Cu	5	*
Ross on Wye	1021.6	+3	SW	3	bc	39	85	8	-	-	-	Ci	6	*
Falmouth	1021.8	0	SSW	5	co	46	75	8	-	-	-	A.Cu	7	*
Calshot (Hants)	1025.1	+6	SSW	1	bc-	42	97	8	-	-	-	-	-	0
Lympne (Folkestone)	1025.8	+6	SSW	2	bc	39	97	8	-	-	-	Ci	1	*
Aberdeen	1011.9	+3	S	3	cq/r	38	92	5	-	-	-	A.St	8	0
Howden	1020.8	+6	S	3	bc-	34	85	5	4000	St	1	A.St	1	*
Cranwell (Lincs)	1022.3	+4	SSW	4	bc+	36	97	8	-	-	-	A.St	1	*
Felixstowe	1025.0	+3	SW	3	bc	41	97	8	-	-	-	Ci	1	3
Shoeburyness	1025.4	+5	SW	1	fb	37	85	6	-	-	-	-	-	*
Benson	1023.6	+5	SSW	3	bc+	36	97	8	-	-	-	Ci	2	*
S. Farnborough	1025.1	+5	SSW	2	bc	37	97	8	-	-	-	Ci	1	*
London (M.O. at 1H.)	1025.2	+5	SSW	1	bc-	37	97	6	-	-	-	Ci	1	*
Croydon	1025.7	+5	S	3	bc	38	97	8	-	-	-	Ci.St	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. Day.	Rainfall mm. Night.	Temp. Max. Day. °F.	Temp. Min. Night. °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	1005.5	45	S	4	bc+	1007.0	+2	42	-3	SW	1	-	bc/r	3	-	3	48	38	b or bc	b or bc	r and p.	*
Stornoway	1001.2	40	N	4	co+	1000.1	-6	43	+1	S	7	-	bc-	4	3	0.4	46	36	p	p	b or bc. c	4.5
Castlebay (Barra Is)	1008.0	44	N	3	bc+									*	1				hor hr	b or bc		
Malin Head	1003.6	44	NSW	3	co-	998.8	-16	41	+2	SSE	5	-	co+	5	-	-	47	39	b or bc	0.0	b or bc 00	3.7
Blacksod Point	1007.5	45	N	2	bc-										1				p	b or bc		*
Roche's Point	1011.3	46	N	4	bc-	1009.3	-5	49	+5	SSW	9	-	0	8	6	2	48	41	r and	p	c	*
Birr Castle	1007.8	45	SW	2	bc-	1006.5	*	47	+10	S	5	-	cov	*	22	-	46	36	c	h or hr	c	2.5
Donaghadee	1005.4	38	SW	1	?co/r	1011.3	+3	44	+3	SW	4	-	co	6	13	-	47	38	00	r and	b or bc	*
Liverpool (Bidston)	1007.0	45	SSW	4	pr.	1015.1	+2	38	-2	SSE	3	-	bc	1	24	-	46	35	p	p	b or bc	2.4
Holyhead	1008.4	42	N	4	co	1014.6	-1	45	0	S	5	-	bc+	4	4	-	49	41	r and	0.0	b or bc	0.2
Pembroke (St. Ann's Head)	1012.0	43	N	3	co/r	1018.0	0	47	0	WSW	5	-	co+	4	5	trace	49	43	p	p	c	2.0
Scilly (St. Mary's)	1013.2	46	N	5	pr.	1019.6	-1	50	+4	S	5	-	bc+	7	6	-	50	41	r and	p	b or bc. c	3.7
Jersey (St. Aubin)	1017.3	46	SSW	3	co/r	1026.9	+2	45	-1	SSW	3	-	bc	3	4	-	56	44	c	r and	b or bc	5.3
Portland Bill	1013.0	49	S	7	pr.	1023.6	+5	47	-1	WSW	5	-	bc	5	06	-	51	45	c	?00	b or bc	*
Dungeness	1017.4	50	SSW	4	bc+	1025.6	+4	44	-1	WSW	2	-	bc	3	-	-	52	41	b or bc	b or bc	b or bc	*
Wick	1008.4	45	SSW	2	co+	1005.7	+2	41	0	SSW	4	-	bc-	3	-	-	49	35	b or bc	b or bc	b or bc	*
Nairn	1008.6	44	N	2	bc	1006.5	*	40	+3	-	0	-	cq	1	-		50	36	bcq. c	c. bc	bc. cq	5.3
Leith	1014.2	41	ESE	1	r	1012.2	+2	41	+2	SW	1	-	c	1	4		52	36	bcz. c. 0	ornr	r. o. c.	*
Tynemouth	1006.4	48	SSW	4	co-	1016.9	+4	38	-3	SW	2	-	bc	0	-	-	49	37	c	c	c. b or bc	*
Spurn Head	1010.9	49	S	6	bc	1021.3	+5	39	-3	SSW	4	-	bc	3	-	-	51	35	b or bc	b or bc	c. b or bc	*
Yarmouth (Gorleston)	1016.8	50	SSW	6	bc	1022.5	+2	39	-3	W	3	-	bc-	0	-	-	54	38	b or bc	b or bc	b or bc. c	9.7
Clacton-on-Sea	1017.1	49	S	4	bc	1024.8	+4	40	-5	WSW	2	-	bc	0	-	-	49	40	?	b or bc	b. or bc	9.5
Nottingham	1011.4	48	S	6	bc-	1022.0	*	35	-6	S	1	-	bc-	*	trace	trace	54	34	c	p	c	1.5

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

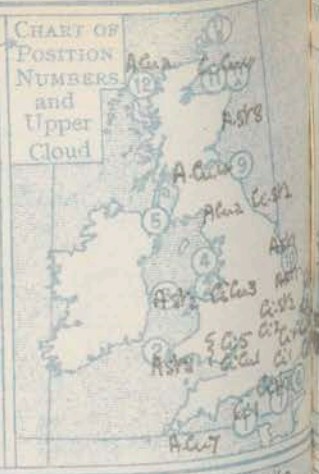
M.O. FORM 2370.

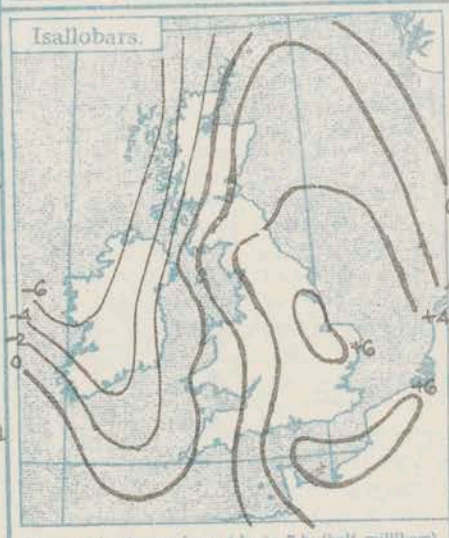
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 15.3.21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair or fine.	Good.	Slight
2. E. England	Fair or fine.	Fair.	"
3. E. Midlands	Fair or fine.	Indif.	-
4. W. Midlands	Fair or fine.	Fair.	-
5. S.W. England	Fine to cloudy.	Good.	R.Rough
6. South Wales	Cloudy.	"	Mod.
7. North Wales	Fair generally.	"	"
8. N.W. England	Fair generally.	Fair.	Slight
9. N. Midlands	Fair or fine.	Poor.	-
10. N.E. England	Fair or fine.	Indif.	Slight
11. E. Scotland	Cloudy or dull.	Indif.	Smooth
12. S.W. Scotland	Cloudy or dull.	Fair.	R.Rough
13. Isle of Man	Cloudy or dull.	Good.	Mod.
14. N.&N.W. Scotland	Fair generally.	Fair.	"
15. Hebrides	Fair generally.	"	"
16. Orkneys and Shetlands	Fair generally.	Good.	"
17. N.W. Ireland	No reports.		
18. N.E. Ireland	Dull.	Good.	R.Rough
19. S.E. Ireland	Dull, local rain.	Fair.	Mod.
20. S.W. Ireland	Dull, local rain.	Indif.	Rough.

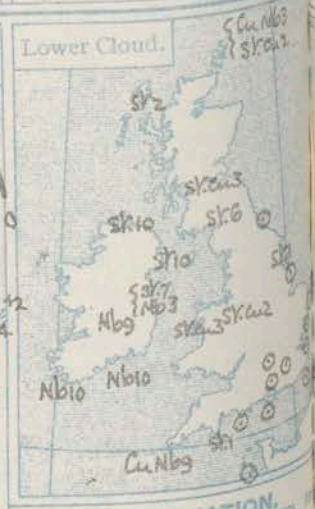
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T	Sea °F	Air °F
5	14th	0818	46	44
3	14th	1000	47	46
2	15th	0220	47	46
7	15th	0325	47	49





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 deep depression near Iceland will maintain Southerly winds and mild weather over the British Isles for the next 24 hours. Over Western England, Western Scotland and Ireland the wind will be strong to a gale at first with showery weather but further East it will be fair to fine and less windy.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Tuesday, 15th March, 1921.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh South to South-West wind; fair to fine; visibility mainly good; mild.
▼5. S.W. England ▼6. South Wales ▼7. North Wales ▼8. N.W. England	Strong South to South-West wind, a gale in exposed places; varying amount of cloud, passing showers; visibility mainly good; mild.
9. N. Midlands 10. N.E. England 11. E. Scotland	Fresh to strong Southerly wind, moderating; fair to dull; visibility mainly good; mild.
▼12. S.W. Scotland ▼13. Isle of Man ▼14. N.&N.W. Scotland ▼15. Hebrides ▼16. Orkneys and Shetlands ▼17. N.W. Ireland ▼18. N.E. Ireland ▼19. S.E. Ireland ▼20. S.W. Ireland	Same as 5 - 8.

Further Outlook.

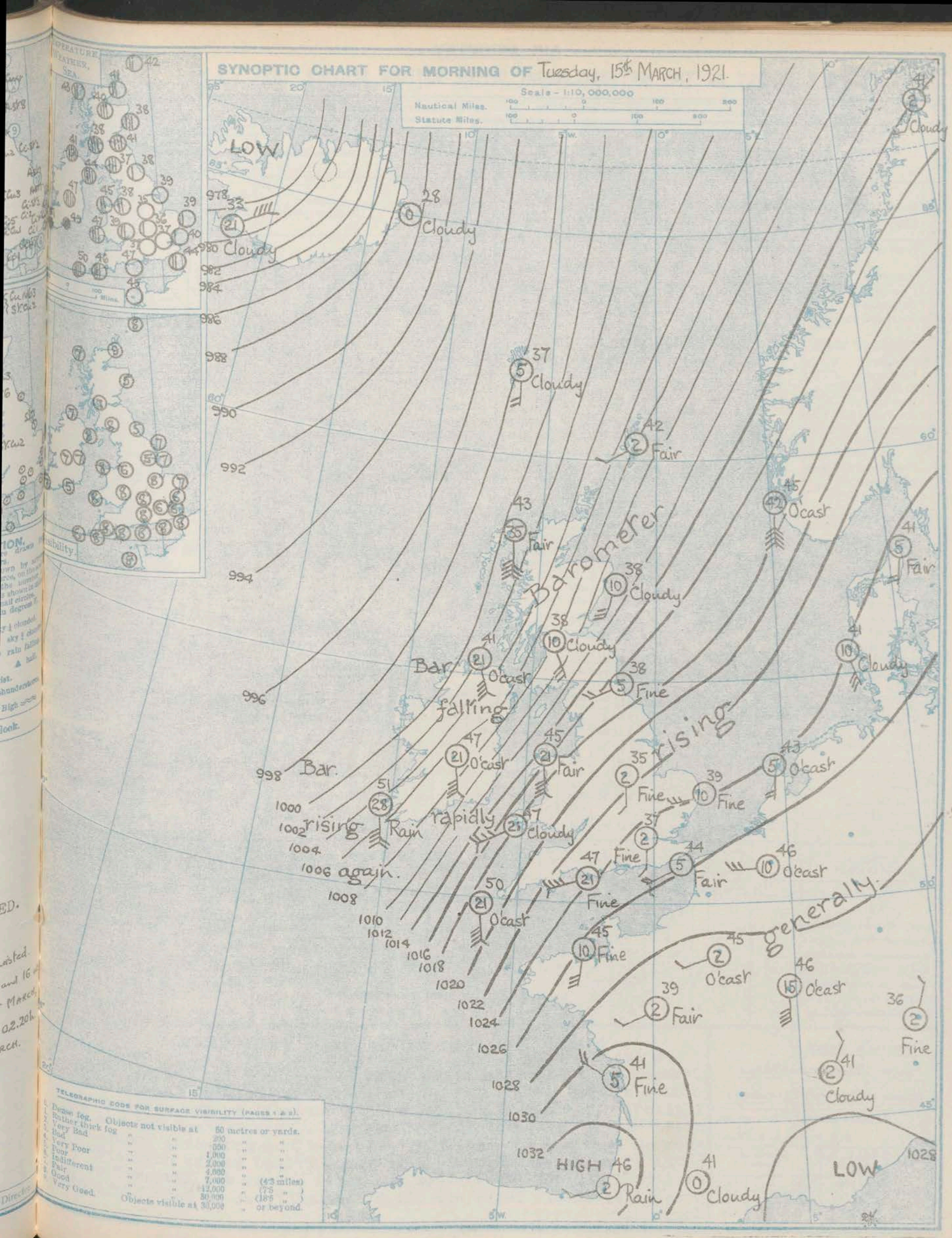
NONE ISSUED.

▼ South Cone hoisted. Districts 14, 15 and 16 at 09.15h. 15th March, remainder at 02.20h. 15th March.

E.V.N.

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 Tuesday, 15th MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Cloudy
Fair
O'cast
Fine
Rain
HIGH
Bar. falling
Bar. rising rapidly again.
Barometer rising generally.
978
980
982
984
986
988
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog
Very Bad
Bad
Very Poor
Poor
Indifferent
Fair
Good
Very Good.
Objects visible at 30,000 or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 74.

Tuesday 15th March 1921

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	c.b.ob	bc.c.o	51	37	9	–	5.8
	Montrose	bc	o	48	38	17	3	4.9
England, N.E.	Harrogate	qpbc.o	op	48	37	4	1	1.2
	Skegness	b.o	o.bc.c.o	53	40	0.1	–	6.0
England, S.	Lowestoft	bc	bc	53	41	1	–	9.2
	Felixstowe	bc	bc	51	42	1	–	9.8
	Southend-on-Sea	bc	bc	55	46	0.4	–	9.2
England, S.E.	Tunbridge Wells	bc.b	b.bc	54	42	3	–	6.8
	Margate	b	b	55	45	0.4	–	9.8
	Ramsgate	*	*	?	?	–	–	9.1
	Folkestone	r.o.bc	bc	53	44	1	–	8.9
	Hastings	b	b.bc.c	52	45	2	–	7.6
	Eastbourne	bc	bc	52	45	1	–	7.6
	Brighton	b	bc.o	51	37	1	–	7.6
	Worthing	b.bc	bc.c	53	45	–	–	8.2
	Portsmouth (S'thsea)	–	–	53	44	2	–	6.6
	Bournemouth	*	*	52	43	3	–	3.1
		*	*					
England, N.W.	Blackpool	cop.c.o		51	39	10	0.3	1.1
	Southport	o.p.c.o	cop.c	51	38	9	1	1.6
Midlands.	Leamington Spa	c.b.o	c.b	54	38	1	–	0.7
	Bath	qpc	cop	53	42	1	1	1.8
Wales.	Rhyl	c.b.p	p	56	39	2	2	2.0
	Colwyn Bay	–	–	52	40	2	2	2.6
	Llandudno	or	or.c	52	40	0.2	2	1.5
	Aberystwyth	r.o.c	or.c	48	41	8	4	1.0
England, S.W.	Weymouth	o.c	cp.op.c	54	44	1	1	2.6
	Torquay	ohrrp	bcrp	50	43	2	13	0.7
	Paignton	ogrht	op.bc	51	42	1	10	0.5
	Penzance	ttr.c	cpr.bc	52	43	18	3	3.6
	Bude	p	–	52	40	4	7	2.0
	Ilfracombe	or	or	50	42	3	5	0.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 14th	Weather. 13h-18h. 14th	Weather. 18h. 14th-1h. 15th	Weather. 1h-7h. 15th	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	r or d.	r or d	r or δ	c	48	35	31	10	7	2.5
Eskdalemuir	r or d	r or d	c	c	44	35	33	7	1	0.1
Valencia (Cahire'ty)	p	h o hr	p	r or δ	47	41	36	3	9	4.3
Baldonnel	r or d		b or bc	o.o	?	36	32	?	–	0.0
Manchester (Alex Park)	p	p	c	c	51	37	31	1	0.6	*
Ross on Wye	h o r h r	p	b or bc	b or bc	50	36	30	5	0.1	0.1
Falmouth	p	p	b or bc	b or bc	51	36	32	4	0.1	4.1
Calshot (Hants)	c	p	b or bc	b or bc	53	40	?	2	–	7.5
Lympne (Folkestone)	b or bc	b or bc	p	b or bc	50	37	32	–	trace	8.3
Aberdeen	b or bc	c	r or δ	r or δ	49	36	32	–	4	5.9
Howden	o.o	p	b or bc	b or bc	53	33	27	0.1	·	2.1
Cranwell (Lincs)	c	p	p	b or bc	56	33	30	?	trace	3.6
Felixstowe	b or bc	b or bc	c	b or bc	52	40	36	–	?	9.7
Shoeburyness	b or bc	b or bc	b or bc	b or bc	56	36	28	–	–	8.8
Benson	c	c	b or bc	b or bc	53	33	24	–	–	*
S. Farnborough	c	r or d	b or bc	b or bc	54	32	25	0.3	0.2	6.1
London (Kew Obsy.)	c	c	c	c	52	37	25	–	–	6.2
Croydon	o.o	c	r or δ	b or bc	54	38	32	–	0.1	*

WEATHER. (p 1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain. i = intermittent; – = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 15th							Yesterday.		To-day.
Greenwich (Royal Observatory)	?	?	?	57	36	29	0.3	7.4	60	71
City (Bushill Row)	*	*	*	*	*	*	*	5.6	*	*
Westminster (St. James's Park)	*	*	bc.bx	55	37	31	–	6.1	54	69
Regents Park (Botanical Soc.)	*	*	*	*	*	*	*	5.4	*	*
Camden Sq. (British Rainfall)	c.	bc.	*	56	37	30	–	*	55	71
Kensington Palace			*	56	38	32	–	*	73 (18h)	74
Hampstead Observatory	*	*	*	53	37	*	–	4.3	*	74

* Information for these columns not usually received.

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.

15th & 16th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.11	12.2	5.54
	6.8	12.2	5.56
Greenwich	6.17	12.9	6.2
	6.14	12.9	6.4
Wick	6.32	12.21	6.11
	6.29	12.21	6.14
Valencia	6.58	12.50	6.43
	6.55	12.50	6.45

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

Exposure from 14th 19h. 0m. to 15th 5h. 15m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	15	6	42	65
δ Ursae Minoris	10	15	6	17	61

NOTES ON THE WEATHER OF YESTERDAY.

A small secondary depression which was off the Mouth of the Channel in the morning moved up to Scotland during the day and caused strong Southerly winds or gales over nearly the whole of England. Thunderstorms occurred in Cornwall in the morning, close to the centre of the secondary. Over Eastern England the weather improved considerably, many stations recording about 10 hours of bright sunshine. Rain was confined to the northern and Western districts; at Glasgow the total amount was 17mm and at Donaghadee 13mm. There was slight ground frost in many parts of England.

† 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. 21,664 Wednesday, 16th March, 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 15th														18H. G.M.T. of 15th													
Renfrew	1006.9	-3	SSE	7	~~r~~ o	48	85	6	1500	St-Cu	10	-	10	*	1009.9	+5	WSW	5	Kqo	50	85	6	1500	St-Cu	9	-	9	
Eskdalemuir	1011.8	-2	S	8	od₀+	43	92	3	800	Nb	10	-	10	*	1012.5	+2	S	8	R	47	97	3	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1009.3	+4	SSW	6	co	53	75	7	1500	St-Cu	8	-	8	*	1011.4	+3	SSW	5	co-	52	75	8	1500	St-Cu	8	-	8	5
Baldonnel	1009.0	+1	SW	7	co/r	52	85	6	2500	St	10	-	10	*	1012.1	+4	SW	6	bc-	53	75	7	2500	St-Cu	3	A.St	4	*
Manchester (Alexandra Park)	1018.9	-2	S	7	co	49	75	8	2500	St	10	-	10	*	1018.9	0	S	5	co	51	86	6	1500	Nb	9	-	9	*
Ross on Wye	1022.7	0	SSW	5	od₀	49	85	6	1500	Nb	10	-	10	*	1022.1	0	SW	6	r₀+	49	95	6	1500	Nb	10	-	10	*
Falmouth	1021.6	-1	SSW	7	pr₀	51	85	7	-	Nb	10	-	10	*	1022.3	+1	SSW	6	D	51	97	3	-	Nb	10	-	10	*
Calshot (Hants)	1027.3	0	SSW	5	bc	51	75	9	2500	Cu	1	Ci-Cu	6	*	1027.9	0	SSW	5	co+	50	85	8	4000	St-Cu	10	-	10	3
Lympne (Folkestone)	1028.8	+3	SSW	6	co	50	75	8	2500	Cu	8	-	8	*	1029.7	+1	SSW	4	bcv	44	85	9	-	-	-	Ci-St	5	*
Aberdeen	1009.7	-2	SSE	4	co/r	44	85	7	2500	Nb	10	A-St	10	*	1008.8	+0	S	4	bc/r	46	97	6	2500	St-Cu	1	-	1	4
Howden	1020.1	-2	SSW	5	co+	51	65	6	~~4000~~ 2500	St	~~4~~ 1	~~Ci-Cu~~	~~8~~ 10	*	1020.1	0	S	6	co	51	86	6	5750	St-Cu	10	-	10	*
Cranwell (Lincs)	1022.3	-1	SSW	6	co	52	65	8	4000	St-Cu	5	A.St	8		1022.9	+1	S	6	co+	50	75	8	2500	St-Cu	10	-	10	*
Felixstowe	1027.0	0	SSW	4	bc+	52	75	8	4000	Cu	3	-	3	*	1028.9	+3	SSW	4	co+	48	85	8	-	-	-	Ci	7	*
Shoeburyness	1027.1	+2	SW	4	bc-	54	55	7	2500	Cu	1	Ci	2	*	1028.5	+2	SW	3	bc	47	75	7	-	-	-	Ci-Cu	2	*
Benson	1023.9	0	SW	6	bc+	52	65	8	-	Cu	5	-	-	*	1025.3	+1	SSW	5	co	49	88	8	-	St-Cu	10	-	10	*
S. Farnborough	1026.3	+1	SW	6	co	53	75	8	2500	Cu	5	A.Cu	8	*	1027.5	+2	S	4	co+	50	75	8	4000	Cu	8	A.St	10	*
London (Kew Obsy.)	1026.4	0	S	5	bc+	53	65	9	4000	Cu	~~3~~ 4	-	~~4~~ 8	*	1027.9	+2	SSW	3	bc+	50	75	6	4000	St-Cu	2	A.Cu	5	*
Croydon	1027.0	+2	SW	5	bc-	52	55	8	4000	Cu	3	Ci	4	*	1028.4	+2	SSW	4	co+	48	76	8	4000	St-Cu	2	Ci	9	*
	1H. G.M.T. of 16th														7H. G.M.T. of 16th													
Renfrew	1011.8	0	NNE	2	r₀r₀	42	97	5	1500	Nb	10	-	10	*	1003.1	-8	S	7	r₀	51	85	6	800	Nb	10	-	10	*
Eskdalemuir	1013.3	-1	S	6	r	47	97	2	800	Nb	10	-	10	*	1008.2	-4	S	8	d-	48	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1003.2	-15	S	6	d	51	*	*	*	*	*	*	*	*	1007.1	+10	SW	6	co-	47	75	8	2500	St-Cu	9	-	9	6
Baldonnel	1010.0	-5	SSE	5	rr	51	92	4	800	St	10	-	10	*	1005.7	-1	SSW	7	rr	52	85	5	800	Nb	10	-	10	*
Manchester (Alex. Pk.)	1016.6	-2	SW	6	co-	52	75	8	1500	St	10	-	10	*	1016.5	-2	SW	6	co-	52	75	8	1500	St	10	-	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.3	-2	SW	7	co/r	51	85	7	1500	Nb	10	-	.	*
Falmouth	1021.9	0	SSW	7	co	51	92	7	-	St	9	-	9	*	1020.8	0	SSW	7	r₀	51	85	6	-	Nb	10	-	10	*
Calshot (Hants)	1027.5	~~+2~~	SSW	6	co	49	85	8	2500	St-Cu	10	-	10	*	1026.7	-1	SSW	6	co+	48	92	8	1500	St-Cu	4	Ci-Cu	7	4
Lympne (Folkestone)	1029.7	0	SSW	5	bcv	45	85	9	-	-	-	-	-	*	1028.9	-1	SSW	5	bc-	44	92	9	-	-	-	Ci	3	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.1	-9	SSE	4	r₀	47	97	7	1500	Nb	10	-	-	4
Howden	1020.3	-2	S	5	co	51	85	6	1500	St	10	-	10	*	1018.1	-2	S	5	pr₀	51	85	7	2000	St	10	-	10	*/
Cranwell (Lincs)	1023.2	-1	S	5	co	50	92	7	2500	St-Cu	10	-	-	*	1021.9	-1	S	5	co	50	92	8	2500	Cu	8	A St	10	*
Felixstowe	1029.4	0	SW	5	bc	46	85	8	-	-	-	-	-	*	1028.6	0	SSW	4	bc	46	92	7	-	-	-	Ci St	4	4
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.1	-1	SW	6	co	47	85	7	2500	St-Cu	8	-	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.3	+1	SSW	5	d₀	48	85	7	-	Nb	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.6	+1	SSW	4	co	48	85	7	1500	St-Cu	10	-	10	*
London (M.O. at 1H.)	1028.2	0	*	*	*	50	*	*	*	*	*	*	*	*	1026.7	+1	S	4	co	50	85	8	1500	St-Cu	10	-	10	*
Croydon	1028.5	0	S	4	bc-	47	85	8	-	-	-	Ci	2	*	1027.7	0	SSW	5	d₀	47	85	8	800	St	10	-	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	Temp. °F.	Change in 24 hours	Wind Direc.	Wind Force 0-12	Direc. of Upper Cloud	Weather	Sea 0-9	Rainfall mm. Day	Rainfall mm. Night	Max. Day °F	Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
	18H. G.M.T. of 15th					7H. G.M.T. of 16th									24 HOURS ENDED 7H. 16th							15th
Lerwick	1005.2	45	S	6	co/r	1008.2	-4	45	+3	SE	3	.	c	1	0.5	-	46	40	c	r or d	b or bc	*
Stornoway	1001.7	41	SSW	4	bc+	995.7	-12	45	+4	SE	2	.	r₀+	0	6	1	50	44	r or d	tlr	r or d	1.9
Castlebay (Barra Is.)	1003.9	45	SW	5	PH	990.7	-16	49	?	SSE	5	.	rr	7	2	3	45	42	r or d	h or hr	b or bc	2.5
Malin Head	1007.4	43	SSW	4	opr₀	991.3	-15	48	+7	SSW	5	.	co/r	5	1	1	51	42	c	p	c	3.5
Blacksod Point	1008.0	46	SW	3	o	992.0	+4	47		SW	7	-	c	7	0.6	0.5	52	40	p	p	p	*
Roche's Point	1014.1	51	SW	5	~~ff~~ om	1009.2	+3	51	+2	SW	6	.	co/r	7	1	14	53	50	r or d	f or m	r or d	*
Birr Castle	1010.6	52	SW	2	co	1004.2	*	51	+4	SW	5	.	co-	*	5	2	54	48	r or d	c	r or d	0.5
Donaghadee	1010.5	51	WSW	3	co/r	1005.0	-2	50	+1	SW	5	.	d	7	3	7	51	45	b	r or d	r or d	*
Liverpool (Bidston)	1017.8	50	S	4	od₀	1014.3	-3	51	+13	SSE	4	.	co/r	3	TR	1	53	?	oo	oo	p	0.1
Holyhead	1015.4	50	SSW	5	co/r	1010.4	-3	50	+5	S	7	.	DD	7	1	11	50	48	r or d	r or d	r or d	0.0
Pembroke (St. Ann's Head)	1019.1	49	SSW	5	fo+	1014.8	0	?48	+1	SSW	6	.	dd	5	0.4	3	50	47	r or d	f or m	r or d	0.0
Scilly (St. Mary's)	1020.6	51	SSW	5	pr₀	1017.6	-2	51	+1	SSW	6	.	rr	8	2	3	51	50	f or m	p	p	0.0
Jersey (St. Aubin)	1029.9	52	SSW	4	co	1029.4	0	48	+3	S	4	.	co	3	-	-	56	48	bc	c	b or bc	9.0
Portland Bill	1024.8	49	SW	6	pr₀	1023.8	-2	49	+2	S	6	.	co	6	1	-	50	46	c	r or d	oo	*
Dungeness	1029.6	48	SW	4	bc	1028.6	-1	47	+3	SSW	4	.	bc+	4	-	-	52	44	bc	c	b or bc	*
Wick	1003.4	45	SSW	6	bc-	1002.8	-8	45	+4	SSE	5	.	r₀+	4	-	0.2	46	41	c	o	b or bc	*
Nairn	1005.1	45	W	3	c	999.9	*	44	+4	-	0	.	bc	1	2	-	52	39	cqq	ob rq	cp. bc	4.8
Leith	1009.2	50	SW	3	c	1004.1	-4	52	+11	SSW	6	.	r	3	7		53	41	cqc	c.cqr.c	cu.cqr	*
Tynemouth	1015.1	50	SW	4	co	1012.9	-3	50	+12	SW	4	.	d₀	2	-	1	57	57	oo	oo	oo	*
Spurn Head	1020.9	50	SSW	6	bc	1019.4	-3	48	+9	S	7	.	co-	6	-	-	54	42	bc	c	oo	*
Yarmouth (Gorleston)	1026.1	51	SW	5	bc+	1026.1	-1	45	+6	SW	5	.	bc-	3	-	-	55	44	b	b or bc	c	9.4
Clacton-on-Sea	1025.4	48	SW	5	bc+	1028.0	-2	46	+6	SW	5	.	bc	1	-	-	53	45		b or bc	b or bc	9.0
Nottingham	1022.0	50	S	5	co	1020.6	*	51	+16	SW	5	.	pr₀	*	TR	TR	53	50	c	p	oo	3.8

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

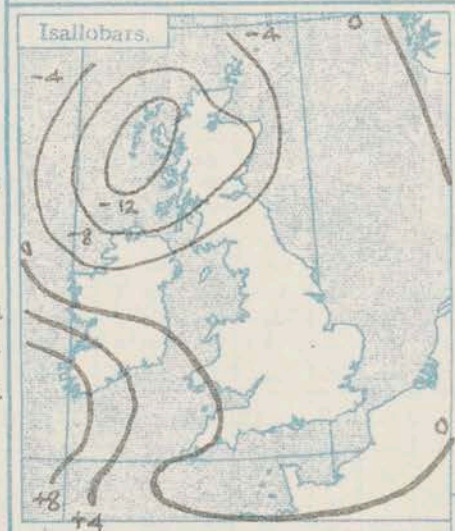
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 16. 3. 21.

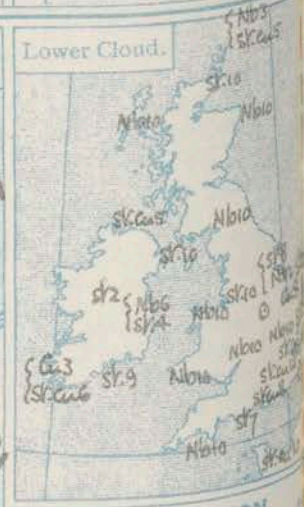
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to dull, local rain.	Good.	Mod.
2. E. England	Fair to dull.	Fair.	Mod.
3. E. Midlands	Dull, some rain.	Indiff.	-
4. W. Midlands	Dull.	Fair.	-
5. S.W. England	Dull, local rain.	Indiff.	Rough
6. South Wales	Dull, local rain.	"	Mod.
7. North Wales	Dull, local rain.	"	Rough
8. N.W. England	Dull, local rain.	Good.	"
9. N. Midlands	Dull, local rain.	Fair.	-
10. N.E. England	Dull, local rain.	Fair.	Mod.
11. E. Scotland	Mainly dull, local rain.	Fair.	Mod.
12. S.W. Scotland	Dull, some rain.	Poor.	R.Rough
13. Isle of Man	Dull, some rain.	Indiff.	Rough
14. N.& N.W. Scotland	Dull, some rain.	Poor.	Mod.
15. Hebrides	Rainy.	Poor.	R.Rough
16. Orkneys and Shetlands	Cloudy or dull, local rain.	Indiff.	Slight
17. N.W. Ireland	Cloudy or dull.	Fair.	R.Rough
18. N.E. Ireland	Cloudy or dull, local rain	"	"
19. S.E. Ireland	Cloudy or dull, local rain.	Poor.	Rough
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
4A	15th	0430	42	44
5	"	0849	46	45
3	"	1000	49	45
1	"	1230	49	54
6		-	48	54
8	"	1340	46	51
2	16th	0215	49	50
7	"	0250	48	49
4A	"	0465	52	50



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. sky ¾ clouded. overcast sky. rain falling. snow. sleet. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

GENERAL INFERENCE from observations received up to 9h.

The deep depression West of Iceland shows no signs of moving and secondaries continue to arrive from the Atlantic. Showers are probable in all districts but will be infrequent over Eastern England and the South to South-West wind will reach gale force at times.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. 16th March, 1921.
1. S.E. England 2. E. England 3. E. Midlands	Wind South to South-West, strong to a gale at times; varying amount of low cloud, a few local showers; visibility mainly good; rather mild.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind South to South-West, strong to a gale; much low cloud, showers; visibility mainly good; rather mild.
10. N.E. England 11. E. Scotland	Same as 1 - 3.
12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides	Same as 4 - 9.
16. Orkneys and Shetlands	Same as 1 - 3.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 4 - 9.

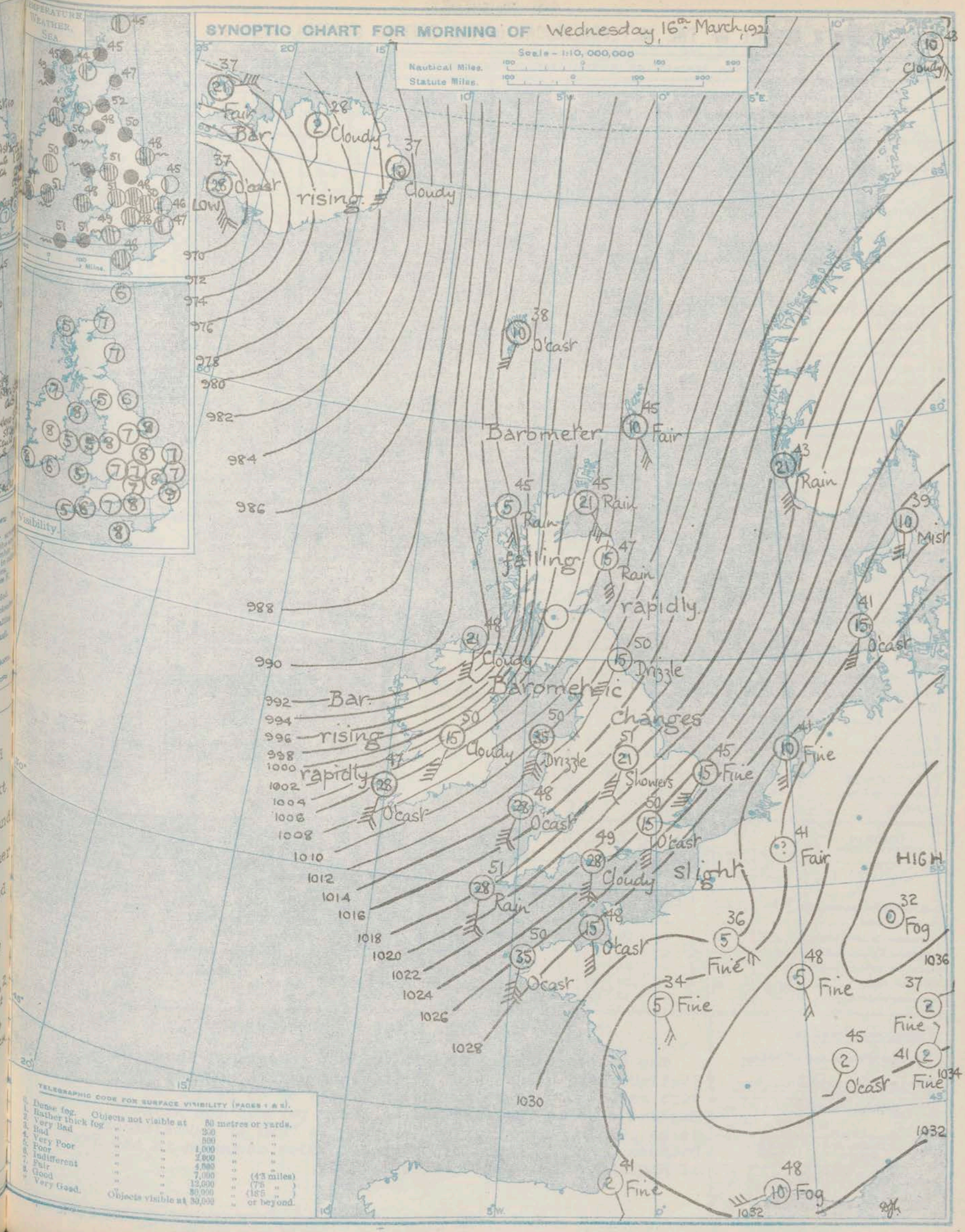
Further Outlook.

Much cloud and some rain during the next two days in Scotland Ireland and Western England. Further outlook for Eastern England Uncertain.

▼ South Cone flying in all Districts.
Cone for Districts 1, 2, 10 and 11 hoisted at 02.20h. 16th MARCH, remainder 15th MARCH.

E.Y.N

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 09.55. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF Wednesday, 16th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Bar rising
Fair
Cloudy
O'cast
LOW
Barometer falling rapidly
Rain
Drizzle
Misr
Bar. rising rapidly
Barometric changes slight
Showers
Fine
Fair
HIGH
Fog
Visibility
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4·3 miles)
7. Fair " " 12,000 " (7·5 ")
8. Good " " 30,000 " (18·5 ")
9. Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 75 {Wednesday 16th March 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 14th-15th	Rainfall. Day. 9h-18h. 15th	Sunshine. Sunrise to Sunset. 15th
Scotland.	Banff	c	c.bc	50	35	1	-	1·3
	Montrose	c	0	47	35	3	1	0·6
England, N.E.	Harrogate	bcop	op	50	46	0·1	-	1·9
	Skegness	b	b.bc.c	53	36	-	-	7·4
England, E.	Lowestoft	b	bbc	53	37	-	-	9·1
	Felixstowe	b	bm	54	39	-	-	8·8
	Southend-on-Sea	b	b.bc	55	39	-	-	8·8
England, S.E.	Tunbridge Wells	b	b.	53	35	4	-	8·1
	Margate	b	b	55	39	-	-	8·7
	Ramsgate	*	*	50	~~47~~ 37	-	-	9·1
	Folkestone	b	b	52	38	-	-	7·3
	Hastings	bc.b	b.bc	53	39	-	-	8·9
	Eastbourne	b	b.bc	53	40	2	-	8·1
	Brighton	b	c.0	51	36	1	-	7·5
	Worthing	b	b	53	35	1	-	8·5
	Portsmouth (S'thsea)	*	*	53	38	1	-	8·7
	Bournemouth	*	*	52	38	1	-	5·2

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 12h-9h. 14th-15th	Rainfall. Day. 9h-12h. 15th	Sunshine. Sunrise to Sunset. 15th
England, N.W.	Blackpool	c	or	51	36	1	1	0·4
	Southport	c.0	or	51	36	1	2	0·8
Midlands.	Leamington Spa	cob	cbo	54	33	0·2	-	4·3
	Bath	b.bc.c.0	op	52	30	-	-	3·6
Wales.	Rhyl	cp	p	54	35	0·3	0·2	0·4
	Colwyn Bay	*	*	52	39	-	5	2·0
	Llandudno	c	c	55	38	0·3	-	1·3
	Aberystwyth	o.c.o	c.o	52	41	-	-	0·5
England, S.W.	Weymouth	b.c.bc	b.c.op.o	54	42	0·3	0·3	5·0
	Torquay	c.b.c	o.r	51	36	Trace	0·2	2·9
	Paignton	bc eq	orq	52	32	Trace	3	1·2
	Penzance	o.d.c	o.d	52	40	0·3	-	0·0
	Bude	b.bcp	p	53	36	2	1	0·1
	Ilfracombe	o.cr	c.o.c.o.r	52	39	2	1	1·2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 15th	Weather. 13h-18h. 15th	Weather. 18h-7h. 15th-16th	Weather. 1h-7h. 16th	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	r or d	r or d	00		50	42	41	4	10	0.3
Eskdalemuir	r or d	r or d	r or d	r or d	47	46	46	2	25	0·2
Valencia (Cahire'n)	r or d	p	r or d	p	58	49	45	4	8	1·3
Baldonnel	r or d	p	r or d	r or d	55	48	46	0·3	5	1·3
Manchester (Alex Park)	r or d	r or d	oo	oo	51	50	48	Tr.	-	*
Ross on Wye	c	r or d	r or d	r or d	53	50	47	0·3	2	3·3
Falmouth	oo	r or d	r or d	oo	51	50	50	2	1	0·0
Calshot (Hants)	bobc	c	oo	c	52	48	?	-	-	4·4
Lympne (Folkestone)	c	bc	b or bc	b or bc	50	42	38	-	-	8·0
Aberdeen	p	p	r or d	r or d	47	38	41	0·2	2	1·0
Howden	c	oo	oo	oo	53	50	30	-	Tr.	3·7
Cranwell (Lincs)	bc	oo	oo	oo	56	49	48	-		5·9
Felixstowe	bc	bc	b or bc	b or bc	55	40	43	-	-	8·6
Shoeburyness	bc	bc	b or bc	b or bc	55	44	39		-	7·4
Benson	bc	oo	oo	oo	54	47	46	-	-	*
S. Farnborough	c	c	oo	oo	55	47	46	-	-	7·2
London (Kew Obsy.)	bc	bc	oo	oo	54	48	45	-	-	7·7
Croydon	c	c	oo	oo	53	46	43	-	-	*

WEATHER. (p 1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0–5 ; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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– 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

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. 16th									
Greenwich (Royal Observatory)	b.bc.	c.o.	c.bc.	55	47	40	—	8·8	58	79
City (Bunhill Row)	*	*	*	*	*	*	*	7·0	*	*
Westminster (St. James's Park)	*	*	o.	55	48	45	—	8·2	55	74
Regent's Park (Botanical Gdns)	*	*	*	*	*	*	*	7·8	*	*
Camden Sq. (British Rainfall)	b.	b.bc.	*	56	46	42	—	*	56	79
Kensington Palace	bc.c.	o.	*	55	47	45	—	*	71 (18h)	82
Hampstead Observatory	*	*	*	53	44	*	—	?	*	82

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.

16th & 17th March, 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·8	12.2	5·56
	6·5	12.2	5·58
Greenwich	6·14	12.9	6·4
	6·12	12.9	6·6
Wick	6·29	12.21	6·14
	6·26	12.21	6·12
Valencia	6·55	12.50	6·45
	6·53	12.50	6·46

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

Exposure from 15th 19 h. 00 m. to 16th 05 h. 15 m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	10. 15	5. 20	51
δ Ursae Minoris	10. 15	4. 39	45

NOTES ON THE WEATHER OF YESTERDAY.

The temperature reached 55° or 56° at several Southern Stations but in the North of Scotland maxima of only 46° or 47° were recorded. There was again little or no rain over Eastern England, but in the West and Northern parts of the Kingdom rather large totals were recorded, as much as 27mm at Eskdalemuir. Between 8 and 10 hours of bright sunshine occurred in the East of England and in the Channel Islands.

* 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. 21665 THURSDAY ... 17TH ... MARCH ..... 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.	Total. 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.	Total. Amt. 0–10.	Sea 0–9.
	13H. G.M.T. 16TH														18H. G.M.T. OF 16TH													
Renfrew	1008.4	0	SW	5	bc+	50	65	8	4000	Cu	6	-	6	*	1011.3	+4	SSW	4	co/r	46	75	8	1500	StCu	9	-	9	*
Eskdalemuir ...	1010.3	+5	SSW	5	co-	47	85	6	1500	StCu	9	-	9	*	1014.3	+4	SW	5	co+	42	85	6	2500	St	9	-	9	*
Valencia (Cahirc'n)	1013.4	+6	SW	6	bc-	46	75	9	1500	StCu	3	A.Cu	5	*	1018.2	+5	W	5	bc	47	65	9	2500	StCu	5	-	5	6
Baldonnel ...	1011.1	+2	SSW	5	pr0	52	65	8	800	Cu	6	Ci.St	7	*	1016.3	+3	WSW	6	bc+	47	65	9	4000	St	6	-	6	*
Manchester (Alex. Pk)	1016.5	0	SW	7	or0	53	86	7	800	StCu	10	-	10	*	1018.8	+3	SW	4	co/f	51	85	6	800	Nb	9	-	9	*
Ross on Wye ...	1020.4	0	SSW	6	ll	50	97	6	1500	Nb	10	-	10	*	1021.8	+3	WSW	5	co-	52	85	8	2500	Nb	8	Ci	9	*
Falmouth	1021.4	+1	SSW	7	r0r0	51	97	6	-	Nb	10	-	10	*	1024.7	+5	WSW	2	pr0	50	92	7	-	StCu	5	aSt	7	*
Calshot (Hants) * ...	1026.5	-1	SSW	7	bc0	53	75	8	4000	St	10	-	10	*	1027.2	+2	SSW	6	δ0δ0	49	97	6	1500	St	10	-	10	3
Lympne (Folkestone)	1028.5	-1	SSW	7	co	52	75	8	5750	StCu	2	Ci.St	7	*	1028.2	+1	SSW	6	co	49	75	9	-	-	-	aSt	8	*
Aberdeen	1005.9	+5	SW	5	bc/r	54	85	9	-	-	-	A.Cu	2	*	1010.6	+5	SSW	5	bc	47	75	8	1500	Cu	5	-	5	1
Howden	1017.9	+0	S	6	co	54	85	7	1500	StCu	10	-	10	*	1019.3	+3	SSW	5	rr	50	97	3	1500	Nb	10	-	10	*
Cranwell (Lincs) ...	1020.7	-2	SSW	6	co	53	85	8	1500	Cu	7	A.St	10	*	1021.7	+2	SSW	5	δ0	51	92	7	-	Nb	10	-	10	*
Felixstowe ...	1027.1	-3	SSW	5	co+	52	85	8	2500	StCu	3	A.St	7	*	1027.6	+2	SW	5	co	50	75	8	5750	StCu	4	Ci	9	*
Shoeburyness ...	1027.1	-2	SW	5	co-	55	68	7	2500	StCu	6	A.St	9	*	1027.4	+2	SW	4	bc-	50	65	7	4000	StCu	2	Ci	6	*
Benson	1023.3	-1	SSW	5	co	53	75	7	-	StCu	10	-	10	*	1024.5	+1	SSW	5	co	50	92	6	-	St	10	-	10	*
S. Farnborough	1025.8	-1	SSW	6	co	54	65	8	1500	St	2	A.St	10	*	1026.0	+1	SSW	5	δ0δ0	51	85	5	4500	Nb	10	-	-	*
London (Kew Obsy.)	1025.8	-2	SSW	6	co	55	65	8	2500	Cu	3	A.St	10	*	1026.2	+1	SSW	6	co	53	75	8	4000	StCu	8	aSt	10	*
Croydon	1026.9	-1	S	6	co	53	85	6	1500	St	3	A.St	10	*	1026.9	+1	SW	6	co/r	52	75	8	2500	St	9	aSt	10	*
	1H. G.M.T. OF 17TH														7H. G.M.T. OF 17TH													
Renfrew ...	1017.7	+2	SW	4	co+	42	85	7	1500	Cu	1	Ci.St	8	*	1019.2	+2	SSE	1	co	41	85	6	2500	StCu	5	Ci.St	8	*
Eskdalemuir ...	1019.7	+3	SW	4	bc	38	85	6	-	-	-	-	-	*	1021.4	+1	SSE	1	co	36	97	6	1500	St	10	-	10	*
Valencia (Cahire'n)	1019.5	-2	SSW	3	bc/r	43	*	*	*	*	*	*	*	*	1017.5	-1	S	4	co	46	85	8	2500	St	4	aCu	7	?
Baldonnel ...	1020.6	+1	S	3	co-	42	75	7	4000	StCu	3	Ci.St	8	*	1020.1	-1	SSW	3	co-	42	85	8	2500	St	4	aSt	8	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.4	+1	SSW	3	co	41	92	5	-	-	-	Ci	9	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.8	+1	SW	2	co⊕	44	85	7	-	-	-	Ci	9	*
Falmouth ...	1026.8	0	W	2	co	45	92	8	-	-	-	aSt	4	*	1026.3	0	SSW	2	pr0	46	97	7	-	Nb	10	-	10	*
Calshot (Hants)...	1027.9	0	SSW	4	co/r	49	97	8	1500	St	10	-	10	*	1028.4	+1	SW	3	co+	46	97	8	1500	St	10	-	10	0
Lympne (Folkestone)	1028.4	0	SSW	5	co	47	85	8	-	-	-	aSt	7	*	1028.2	0	SSW	2	5ff0	46	97	1	4150	St	10	-	10	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.4	+2	SSW	3	bc-	39	85	7	-	-	-	aCu	3	0
Howden ...	1023.3	+2	SSW	2	bc-	41	92	6	4000	St	2	-	2	*	1024.8	+1	S	1	co+	39	92	5	4000	St	2	aSt	6	*
Cranwell (Lincs)	1025.5	+1	SW	2	bc-	44	85	7	-	-	-	Ci.St	2	*	1026.2	+0	SSW	3	co	42	97	7	-	-	-	Ci	10	*
Felixstowe ..	1028.2	0	SSW	3	co	49	92	8	4000	StCu	10	-	10	*	1028.1	0	SW	3	co	47	97	7	4000	StCu	9	-	9	3
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.1	0	W	2	2ff0?	49	85	5	2500	StCu	6	aCu	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.9	+1	SSW	2	co	41	97	7	-	-	-	Ci.St	7	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.0	+1	SSW	2	co	40	97	7	-	-	-	Ci.St	8	*
London (M.O. at 1H.)	1028.0	0	*	*	*	50	*	-	*	*	*	*	*	*	1028.1	+1	S	1	co/r	46	97	5	4000	StCu	2	Ci	7	*
Croydon ...	1028.0	0	SW	4	δ0δ0	49	97	8	800	Nb	8	-	10	*	1028.3	+1	SW	2	co/r	47	92	7	1500	St	2	Ci.St	8	*

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. Day.	Rainfall mm. Night.	Temp. Max. Day. °F	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 16TH					7H. G.M.T. of 17TH									24 HOURS ENDED 7H. 17TH							16TH
Lerwick ...	1003.8	45	SW	6	bc/r	1012.0	+3	47	+2	SW	4	-	co+	3	1	-	47	37	p	p	bor bc.c	*
Stornoway ...	1004.7	41	SW	5	co+	1012.5	+3	138	-7	SSW	4	-	pr0	3	6	2	46	36	p	c	p	0.2
Castlebay (Barra Is)	1007.8	38	W	5	S	1013.1	4	44		S	5		bc	6	2	2	49	37	rord	hor hr	c	10
Malin Head ...	1008.6	42	SW	4	bc/r	1012.8	-2	39	-9	SSE	3	-	bc-	3	3	1	51	36	0	p	p. c.	4.6
Blacksod Point	1010.3	42	SW	4	h(r)	1011.0	-2	41	-6	SW	3	-	h(r)	2	4	4	48	38	b or bc	h or hr	p	*
Roche's Point...	1019.8	47	WSW	4	co-	1021.3	0	48	-3	SSW	5	-	bc+	7	0.4	1	52	45	c	zlr	p	*
Birr Castle ...	1017.7	46	W	3	co-	1018.4	*	41	-10	SW	1	-	bc-	*	1	-	52	39	Mr	c	c	5.3
Donaghadee ...	1013.8	46	WSW	4	bc-	1019.1	0	40	-10	WSW	1	-	bc	0	1	-	53	36	b or bc	h or hr	b or bc	*
Liverpool (Bidston)	1018.5	51	SSW	3	co+	1023.2	0	41	-10	SSE	1	-	bc	0	-	-	55	40	p	b or bc	b or bc	1.5
Holyhead ...	1017.7	48	SW	4	co/r	1021.8	0	47	-3	SSW	3	-	co/r	1	2	0.2	51	43	rord	r or δ	b or bc rod	0.2
Pembroke (St. Ann's Head)	1021.6	47	WSW	4	co/r	1024.0	0	46	-2	SSW	3	-	co+	4	5	-	50	45	rord	p	c. b or bc	1.6
Scilly (St. Mary's)	1023.8	50	WSW	3	bc⊕	1005.0	-1	48	-3	SW	3	-	co	5	2	-	54	47	rord	p	b or bc.c	2.3
Jersey (St. Aubin)	1028.9	53	SSW	5	co+	1028.8	0	49	+1	S	3	-	δ0δ0	3	-	1	55	49	c	c	r or δ	1.8
Portland Bill ...	1025.9	50	S	7	co	1027.4	+2	48	-1	SW	4	-	bc-	4	-	0.6	51	46	0	00	00. b or bc	*
Dungeness ...	1027.7	50	SW	4	bc+	1028.1	0	48	+1	WSW	4	-	co	4	-	-	53	46	b or bc	b or bc	c	*
Wick	1007.7	38	WSW	3	r0	1014.3	+3	39	-6	SW	4	-	co+	?	0.3	0.2	51	35	p	p	b or bc	*
Nairn	1007.1	40	WSW	2	c	1016.1	*	38	-6	-	0	-	bc	1	7		56	35	bcq pr.c.	cpq	cp. bcx	4.1
Leith	1011.6	47	SW	2	c	1019.4	+1	40	-12	SW	2	W	b	2	3		56	39	p.cq/p.c	cq/p. c.	c. bc. b	*
Tynemouth ...	1014.3	51	WSW	5	co/r	1022.4	+1	41	-9	S	2	-	bc	0	0.2	0.2	55	40	0	p	p. b or bc	*
Spurn Head ...	1019.6	51	SW	7	co+	1025.4	+1	45	-3	SSW	2	-	bc	0	trace	1	53	39	b or bc	00	c b or bc	*
Yarmouth (Sor. Lowest)	1026.0	51	SW	6	co-	1026.9	0	49	+4	SW	3	-	co/r	0	-	0.2	51	48	b or bc	c	c. p.	3.9
Clacton-on-Sea..	1027.1	49	SSW	6	bc-	1027.7	+1	47	+1	SW	2	-	co	0	-	-	52	47	c	c	c	2.5
Nottingham ...	1020.5	52	SW	4	co-	1026.1	*	41	-10	S	1	-	co	*	trace	0.1	55	40	b	c	c	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.

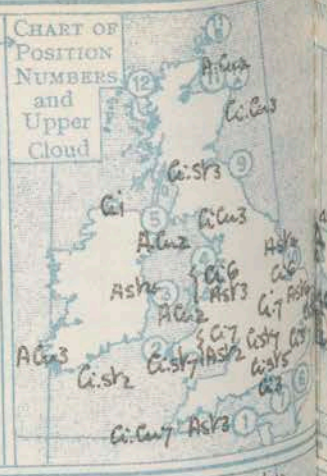
M.O. FORM 2370.

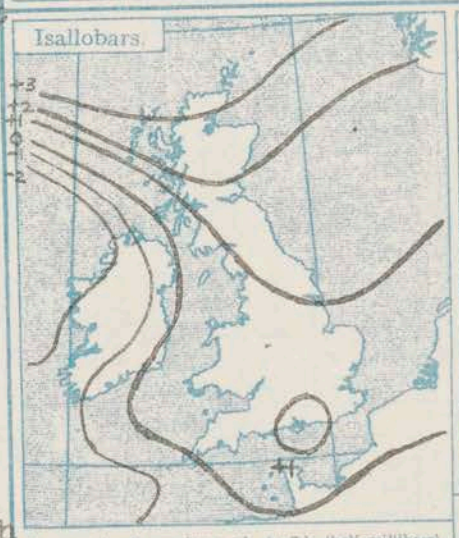
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 17.3.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	(fog on coast Cloudy or overcast, some	Var.	Mod.
2. E. England	Cloudy or overcast	Indiff.	Slight
3. E. Midlands	Cloudy or overcast	Poor	---
4. W. Midlands	Cloudy or overcast	Indiff.	---
5. S.W. England	Cloudy or overcast, local (showers.	Fair	Mod.
6. South Wales	Cloudy or overcast	Fair	"
7. North Wales	Fair to overcast	Fair	Slight
8. N.W. England	Fair to overcast	Indiff.	Slight
9. N. Midlands	Cloudy or overcast	Poor	---
10. N.E. England	Fine or fair	Indiff.	Slight
11. E. Scotland	Fine or fair	Fair	Slight
12. S.W. Scotland	Cloudy or overcast	Indiff.	Slight
13. Isle of Man	Fair	V.Good	"
14. N.&N.W.Scotland	Cloudy, local showers.	Fair	"
15. Hebrides	Cloudy or overcast, local (showers.	Indiff.	"
16. Orkneys and Shetlands	Cloudy or overcast	Fair	"
17. N.W. Ireland	Local hail showers	Fair	"
18. N.E. Ireland	Fair or fine	Good	"
19. S.E. Ireland	Fine to cloudy	"	Mod.
20. S.W. Ireland	Fair or cloudy	"	R.Rough

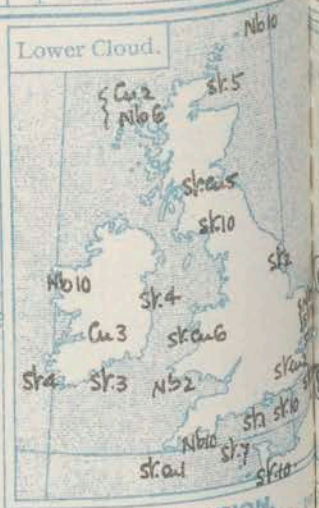
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
10	16th	0555	44	47
5	16th	0824	47	49
3	16th	1000	48	51
8	16th	1400	44	45
2	17th	0220	47	47
7	17th	0325	48	51





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. thunderstorm.
SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to 9h

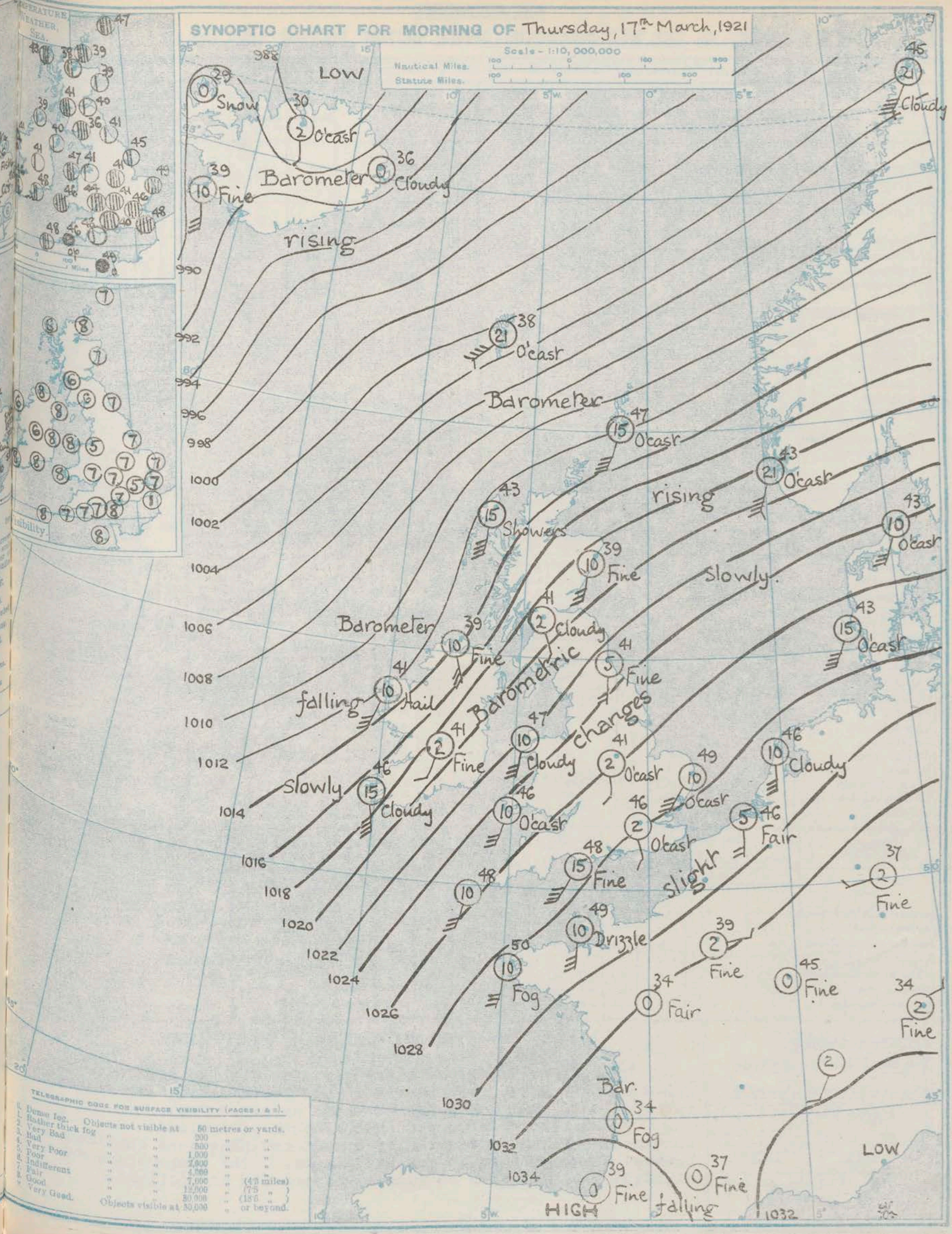
The depression West of Iceland has probably become less deep but there is still a tendency for secondaries in the neighbourhood of the British Isles. The wind will be South to South-West and the weather rather mild and mainly fair but with some showers in Ireland, Western Scotland, and Western England.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. 17th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh Southerly winds; varying amount of cloud; visibility fair to good; mild.	None issued
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate to fresh South to South-West winds; mainly fair, but some local showers; visibility fair to good; rather mild.	
10. N.E. England 11. E. Scotland	Same as for 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	Same as for 5 - 9.	

M.A.3

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 10.15.

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


SYNOPTIC CHART FOR MORNING OF Thursday, 17th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Snow
O'cast
Barometer
Cloudy
Fine
rising
O'cast
Barometer
O'cast
Showers
Fine
rising
O'cast
Slowly.
Cloudy
Barometric
changes
falling
Hail
Fine
Cloudy
Slowly
Cloudy
O'cast
O'cast
O'cast
Cloudy
slight
Fair
Fine
Drizzle
Fine
Fog
Fine
Fair
Fine
Bar.
Fog
HIGH
Fine
falling
Fine
LOW
990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
1034
988
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4½ miles)
7. Fair " " 12,000 " (7½ ")
8. Good " " 30,000 " (18½ ")
9. Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 76...

{ THURSDAY 17TH MARCH 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 15th-16th	Rainfall. Day. 9h-18h. 16th	Sunshine. Sunrise to Sunset. 16th
Scotland.	Banff	bc.b	b.o.bc	57	42	0·2	-	6·2
	Montrose	o	bc.c	54	41	5	2	5·2
England, N.E.	Harrogate	op.	op	53	48	1	0·3	0·0
	Skegness	o	o·c2	55	46	-	-	0·2
England, E.	Lowestoft ...	o.c.bc	bc.c.o.c	51	45	-	-	2·4
	Felixstowe	om	o	52	48	-	-	3·6
	Southend-on-Sea...	o.c	c.bc	55	44	-	-	1·4
England, S.E.	Tunbridge Wells	o.c.	o.c	55	45	-	-	1·3
	Margate	c.bc.b.	b.bc.c	56	45	-	-	4·5
	Ramsgate	bc	o	51	39	-	-	5·0
	Folkestone	o.o.	c.bc	53	45	-	-	5·4
	Hastings	bc.	bc.c.o	52	46	-	-	4·9
	Eastbourne... ...	bc.	c.bc	53	46	-	-	5·6
	Brighton	bc.	bc	51	37	-	-	3·5
	Worthing	bc.	bc	52	47	-	-	4·9
	Portsmouth (S'thsea)	*	*	54	48	-	-	2·3
	Bournemouth ...	*	*	53	48	-	1	0·5

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 16th	Rainfall. Day. 9h-17h. 16th	Sunshine. Sunrise to Sunset. 16th
England, N.W.	Blackpool	or	c	53	43	8	4	0·6
	Southport	op.o	o.c.o	53	48	3	1	0·1
Midlands.	Leamington Spa...	o.o.b	c.D.p.	54	48	-	0·3	0·0
	Bath	o.	or	52	50	1	1	0·0
Wales.	Rhyl	cp	bc.c	56	49	5	0·1	6·5
	Colwyn Bay ...	*	*	55	?	12	2	?
	Llandudno	r.o.	bc	58	47	2	1	4·5
	Aberystwyth ...	r.o.c	or.o	50	47	3	3	0·0
England, S.W.	Weymouth	op.o.	o	53	49	0·2	1	0·1
	Torquay	or	or.p	52	49	3	1	0·0
	Paignton	op.od	od.op	52	40	1	1	0·0
	Penzance	odr	or.c.bc	54	50	3	3	0·5
	Bude	r	c	56	50	1	1	0·7
	Ilfracombe	or	or	54	49	3	4	0·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h. 16th	Weather. 13h-18h. 16th	Weather. 18h-1h. 16th-17th	Weather. 1h-7h. 17th	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	o	p	p	c	54	40	34	2	2	1·5
Eskdalemuir	r or d	p	b or bc	c	48	34	31	8	-	1·4
Valencia (Cahire'n) ...	p	b or bc	p	p	50	41	38	0·4	2	6·4
Baldonnel	r or d	c	oo	p	53	39	35	2	trace	4·1
MANCHESTER (ALEX. (K)	p	r or d	b or bc	b or bc	54	39	30	5	1	*
Ross on Wye... ...	r or d	r or d	b or bc	b or bc	52	41	33	1	-	0·1
Falmouth	o	p	b or bc	oo	53	44	40	8	0·4	0·1
Calshot (Hants)... ...	c	r or d	p	oo	53	46	?	trace	1	1·2
Lympne (Folkestone) ...	c	co	oo	c	52	46	44	-	0·1	4·8
Aberdeen	r or d	b or bc	b or bc	b or bc	54	38	34	3	-	4·6
Howden	r or d	r or d	b or bc	c	53	36	30	5	1	0·0
Cranwell (Lincs)	o	oo	c	c	55	39	34	-	-	0·0
Felixstowe	c	c	oo	oo	54	46	46	-	trace	3·4
Shoeburyness	c	c	c	c	56	47	47	-	-	1·1
Benson	oo	oo	c	c	53	38	30	-	0·4	*
S. Farnborough ...	o	r or d	b or bc.	b or bc	55	38	31	trace	0·6	1·5
London (Kew Obsy.) ...	o	c.	p	p	56	45	34	-	1	0·1
Croydon	o	r or d	r or d	oo	54	47	42	-	0·6	*

WEATHER. (p 1.)

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

A "eolidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; − = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0–5 ; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 17TH							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	o	o	c.bcr	56	47	41	1	1·4	63	75
City (Bunhill Row)	*	*	*	*	*	*	*	0·1	*	*
Westminster (St. James's Park)	*	*	b	56	43	42	0·4	0·2	60	74
REGENTS PARK (BOTANIC GDNS)	*	*	*	*	*	*	*	0·0	*	*
Camden Sq. (British Rainfall)	o bc.	bc	*	57	47	41	1	*	61	75
Kensington Palace	o	o	*	57	47	43	0·5	*	71 (18h)	86
Hampstead Observatory ...	*	*	*	54	45	45	1	0·1	*	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.

17TH & 18TH MARCH ..... 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	6·5	12·2	5·38
	6·2	12·1	6·0
Greenwich	6·12	12·9	6·6
	6·9	12·1	6·7
Wick ...	6·26	12·21	6·16
	6·28	12·20	6·18
Valencia ...	6·33	12·30	6·46
	6·30	12·19	6·19

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

Exposure from 16th 19h. 9m. to 17th 5h. 15m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	10. 15	0 5	1
δ Ursae Minoris	10. 15	0 4	1

NOTES ON THE WEATHER OF YESTERDAY.

Over Eastern England there was little or no rain except for 6 mm at Howden. Further West and North nearly all stations recorded some, but the amount nowhere exceeded 8 mm.

Thunderstorms occurred in the South of Ireland.

Some moderately good records of bright sunshine were obtained, between 5 and 6 hours in several places. The temperature was distinctly higher than on Tuesday especially in Scotland.

* 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. 21,666 Friday, 18th March 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.	Total. 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.	Total. Amt. 0-10.	Sea. 0-9.
	13H. G.M.T. of 17th														18H. G.M.T. of 17th													
Renfrew	1016.6	-3	SSW	4	co	51	65	8	2500	St.Cu	3	A.St	9	*	1012.6	-4	SE	4	co-	47	75	7	1500	St.Cu	6	Ci	8	*
Eskdalemuir	1018.7	-2	SW	6	co	47	75	7	1500	St.Cu	9	-	9	*	1015.2	-3	S	3	co+	45	85	6	4000	St	6	Ci.St	9	*
Valencia (Cahirc'n)	1010.6	-9	S	7	co-	51	75	8	2500	St.Cu	7	-	7	*	1009.3	+4	W	5	r-	46	75	8	1500	St.Cu	8	-	8	6
Baldonnel	1014.8	-8	SSW	6	co+	51	65	8	4000	St.Cu	7	A.St	9	*	1008.4	-9	SSW	7	bc	48	75	8	2500	St.Cu	4	-	4	*
Manchester (Alex'n)	1022.4	-3	SSW	4	co	51	78	7	1500	St.Cu	4	A.St	10	*	1017.5	-5	S	4	co+	60	75	8	1500	St.Cu	9	-	9	*
Ross on Wye	1023.0	-5	SSW	3	co+	53	75	8	4000	Cu	7	Cu.St	10	*	1019.6	-4	SSW	2	pr	49	85	8	2500	Nb	8	A.St	10	*
Falmouth	1023.1	-5	SSW	3	co/f	52	85	7	-	St.Cu	10	-	10	*	1018.7	-7	SSW	4	do	49	97	5	-	Nb	10	-	10	*
Calshot (Hants) *	1026.5	+1.2	SSW	4	co	51	97	8	1500	St.Cu	10	-	10	*	1022.2	-5	S	6	r/o	50	97	7	800	Nb	10	-	10	3
Lympne (Folkestone)	1027.4	-3	SW	4	co	50	97	8	450	St	8	Ci	9	*	1024.4	-4	S	4	co	47	97	7	450	St.Cu	8	A.St	10	*
Aberdeen	1018.0	-2	ESE	3	bc+	46	85	8	4000	Cu	6	Ci.Cu	8	*	1015.4	-1	S	2	bc-	46	85	7	4000	St.Cu	1	-	1	0
Howden	1023.3	-4	SSW	5	co	52	65	8	4000	Nb	3	Ci.St	8	*	1019.2	-5	S	3	co+	51	65	6	4000	St.Cu	10	-	10	*
Cranwell (Lincs)	1024.7	-3	SSW	4	co+	54	65	8	4000	Cu	2	A.St	10	*	1020.7	-4	S	4	co	52	75	8	2500	St.Cu	10	-	10	*
Felixstowe	1027.3	-3	SSW	3	bc	54	75	8	2500	Cu	2	Ci	4	*	1026.5	-2	SSW	3	co+	48	97	7	5750	St.Cu	9	A.St	10	5
Shoeburyness	1026.6	-1	SSW	2	co/f	58	88	7	4000	Cu	2	Ci	6	*	1024.1	-5	SW	1	co+	50	85	6	2500	St.Cu	6	Ci	7	*
Benson	1024.6	-4	SW	4	co+	55	55	8	-	Cu	4	Ci	8	*	1021.0	-4	S	2	r/o	50	92	5	-	Nb	10	-	10	*
S. Farnborough	1026.2	-3	SSW	3	co	56	65	8	2500	St.Cu	10	-	10	*	1022.1	-5	S	2	do do	50	97	6	800	Nb	10	-	10	*
London (Kew Obsy.)	1026.0	-4	SW	2	co+	57	65	8	4000	Cu	1	A.Cu	9	*	1022.6	-5	SSE	2	do+	51	85	5	1500	Nb	8	A.St	10	*
Croydon	1026.7	-2	SSW	3	co+	56	65	8	2500	St.Cu	9	A.St	10	*	1023.1	-5	S	2	do	48	97	5	800	Nb	10	-	10	*
	1H. G.M.T. of 18th														7H. G.M.T. of 18th													
Renfrew	1006.0	-1	S	2	R-	40	92	6	1500	Nb	10	-	10	*	1006.7	+1	SW	4	bc+	37	75	7	1500	St.Cu	5	-	5	*
Eskdalemuir	1006.5	-6	SW	6	rhrh	38	92	5	1500	Nb	10	-	10	*	1009.1	+3	SW	4	co/s	34	85	7	1500	Cu	8	-	8	*
Valencia (Cahirc'n)	1014.4	0	W	9	co/zr	41	*	*	*	*	*	*	*	*	1019.3	+4	W	5	pr/o	44	75	8	2500	Cu.Nb	5	-	5	3
Baldonnel	1011.6	+5	WSW	4	co+	37	85	7	1500	St.Cu	10	-	10	*	?	+3	SW	4	co-	35	85	8	800	St.Cu	5	a.St	8	*
Manchester (Alex'n)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.4	+4	SW	3	bc-	38	85	9	1500	Cu	3	-	3	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.2	+6	W	2	bc	38	75	9	4000	Cu.Nb	1	-	1	*
Falmouth	1019.2	+3	W	4	bc/r	41	75	3	-	Nb	2	-	2	*	1022.7	+4	W	4	bc	41	75	8	-	Nb	5	-	5	*
Calshot (Hants)	1017.9	-6	SW	5	co/r	48	97	8	1500	St	8	Cu.St	9	*	1020.9	+5	WSW	4	bc-	40	85	9	2500	St.Cu	1	-	1	0
Lympne (Folkestone)	1019.0	-5	S	6	co/r	47	92	5	-	-	-	a.St	7	*	1019.5	+3	W	6	co/r	43	85	9	800	St.Cu	10	-	10	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.2	0	S	3	co	40	92	6	4000	St.Cu	8	-	8	0
Howden	1011.5	-7	SSE	5	SS	41	92	5	1500	Nb	10	-	10	*	1013.1	+4	SW	4	co/r	39	92	5	1500	St	4	a.St	8	*
Cranwell (Lincs)	1013.9	-6	SSW	4	r/o	48	92	7	1500	Nb	10	-	10	*	1015.4	+3	SW	2	bc-	39	85	8	4000	St.Cu	1	a.St	2	*
Felixstowe	1015.7	-4	SSW	4	co/r	47	97	8	2500	St.Cu	6	a.St	10	*	1018.0	+2	W	4	co-	44	85	9	4000	St.Cu	9	a.St	10	3
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.3	+2	WNW	6	co/r	44	75	7	2500	Cu	4	Ci	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.2	+5	WSW	4	bc-	38	85	8	-	-	-	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.9	+5	W	2	bc-	39	85	9	2500	St	1	-	1	*
London (M.O. at 1H.)	1018.0	-4	*	*	*	49	*	*	*	*	*	*	*	*	1019.1	+5	SW	3	bc/r	42	75	8	2500	St	2	-	2	*
Croydon	1018.2	-4	SSW	4	SS	48	97	5	800	Nb	10	-	10	*	1019.5	+4	WSW	6	bc/r	41	75	8	800	Nb	1	Ci.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. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F.	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	13H. G.M.T. of 17th					7H. G.M.T. of 18th									24 HOURS ENDED 7H. 18th							17th
Lerwick	1014.1	45	S	3	bc-	1002.5	-8	46	-1	SSE	6	-	bc+	4	?	-	47	42	b	b or bc	b or bc.c	.*
Stornoway	1005.5	46	SSW	3	bc+	998.7	+1	39	+1	SW	5	-	r.r.o	4	3	7	47	39	p	c	p.r or δ	0.0
Castlebay (Barra Is)																						
Malin Head	1001.3	49	SSE	4	co+	1005.6	+3	39	0	WSW	4	-	PR-	4	Tr.	4	52	35	b	c	p	7.3
Blacksod Point	1001.2	43	SW	5	bc/r	1010.6	+5	40	-1	SW	2	-	pr.o	1	0.6	0.2	43	33	p	p	h or hr	*
Roche's Point	1010.9	45	WSW	5	r-	1019.2	+4	40	-8	W	4	-	bc-	3	3	1	52	38	bc	c	r or δ	*
Birr Castle	1007.6	44	SW	5	RR	1014.5	*	36	-5	SW	2	-	PR-	*	5	2	54	34	c	r or δ	r or δ	4.6
Donaghadee	1011.3	48	SW	4	co+	1009.4	+1	34	-6	SW	1	-	S.+	0	-	6	52	31	b	c	h or hr	*
Liverpool (Bidston)	1016.2	49	SE	3	co+	1013.9	+3	39	-2	WSW	4	-	bc/r	5	-	1	54	39	bc	b or bc	p	4.5
Holyhead	1012.6	49	S	6	r	1014.1	+3	40	-7	WSW	5	-	co/r	4	Tr.	8	52	39	bc	c	h or hr	7.3
Pembroke (St. Ann's Head)	1016.7	48	SSW	4	co+	1017.9	+3	44	-2	W	6	-	pr.o	4	0.6	3	50	42	p	c	p. c	3.2
Scilly (St. Mary's)	1018.7	50	S	4	bc	1023.8	+2	45	-3	W	6	-	bc-	7	-	3	54	40	c	b or bc	p	4.0
Jersey (St. Aubin)	1024.3	50	S	3	co/r	1024.4	+1	44	-6	W	3	-	bc/r	3	5	0.4	51	44	f	r or d	r or δ	0.0
Portland Bill	1021.0	49	SW	4	f.o	1019.9	+4	45	-3	WNW	6	-	bc-	6	0.4	2	50	42	form	f or m	oo. bc bc	*
Dungeness	1024.3	49	SW	2	co-	1018.7	+2	46	-2	SW	3	-	co/r	4	?	2	52	46	oo	c	p	*
Wick	1011.4	46	SSW	3	bc	1000.0	-2	40	+1	SSW	5	-	co/r	1	-	0.3	48	39	bc	b or bc	bc bc.c	*
Nairn	1010.2	46	SSW	1	bc	1000.8	*	37	-1	W	3	-	bc	2	2		51	36	bc3	3. bc	bc.cpx	10.2
Leith	1014.2	49	SW	3	c	1006.0	0	38	-2	SW	2	W	b	2	3		54	36	b.bc	bc.cp.c	c.or.b	*
Tynemouth	1017.7	50	SW	2	co+	1009.0	+1	40	-1	W	2	-	bc-	1	-	0.5	53	40	bc	c	c. p.	*
Spurn Head	1020.1	50	S	3	bc+	1013.3	+1	42	-3	WSW	5	-	pr.o	3	-	1	56	40	bc	c	r or δ.c	*
Yarmouth (Gorleston)	1024.0	48	SSW	5	co+	1015.3	-2	47	-2	SW	5	-	co/r	0	-	5	59	47	bc	b or bc	r or δ	4.9
Clacton-on-Sea	1024.6	48	SSW	5	co+	1017.8	+3	44	-3	W	5	-	co/r	1	-	4	55	44	c	c	r or δ	5.7
Nottingham	1019.9	53	SSW	3	r.o	1015.5	*	39	-2	W	3	-	bc-	3	Tr.	1	53	39	oo	oo	r or δ	2.4

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

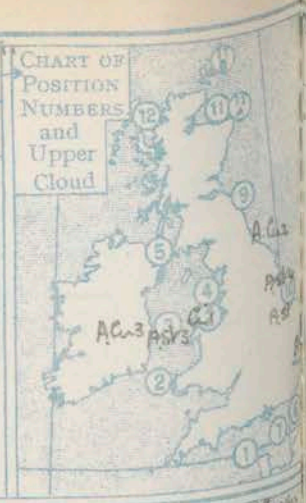
M.O. FORM 2370

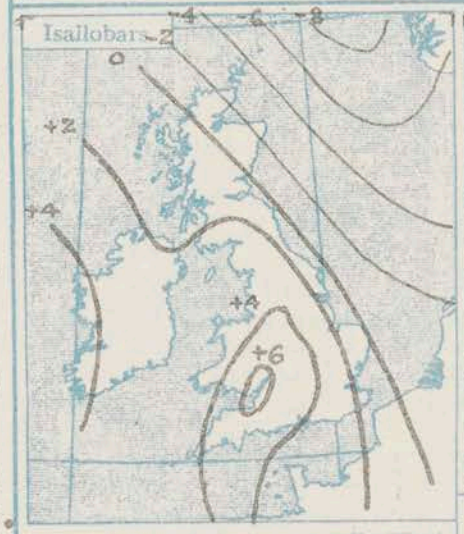
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 18.3. 21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair.	Good.	Mod.
2. E. England	Fair to dull.	Fair.	Slight
3. E. Midlands	Fine.	Good.	-
4. W. Midlands	Fine.	Good.	-
5. S.W. England	Fair to fine.	Good.	R.Rough
6. South Wales	Fair to cloudy; light showers.	Good.	Mod.
7. North Wales	Fair to cloudy.	Good.	Mod.
8. N.W. England	Fair to cloudy.	Good.	Mod.
9. N. Midlands	Fine.	Good.	-
10. N.E. England	Fair.	Fair.	Slight
11. E. Scotland	Fair to cloudy.	Indif.	Slight
12. S.W. Scotland	Fair to cloudy.	Fair.	Slight
13. Isle of Man	Cloudy.	Good.	Mod.
14. N.& N.W. Scotland	Cloudy.	Good.	Slight
15. Hebrides	Dull.	Indif.	Mod.
16. Orkneys and Shetlands	Cloudy.	Indif.	Mod.
17. N.W. Ireland	Dull, slight hail showers	Indif.	Slight
18. N.E. Ireland	Dull, showery; slight local snow.	Fair.	Mod.
19. S.E. Ireland	Fair to dull; local showers.	Good.	Slight
20. S.W. Ireland	Fair, slight showers.	Good.	Slight.

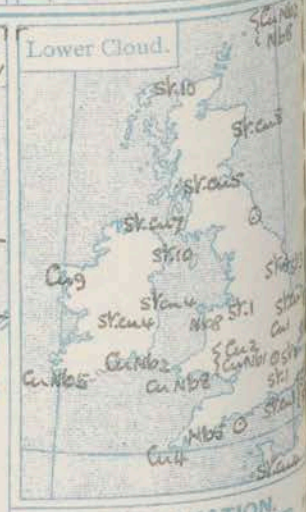
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
4	17th	0345	47	46
12	17th	0430	49	42
5	17th	0813	47	45
3	17th	1000	48	50
6	17th	1400	49	58
1	17th	1220	49	52
2	18th	0210	48	42
7	18th	0210	48	51





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

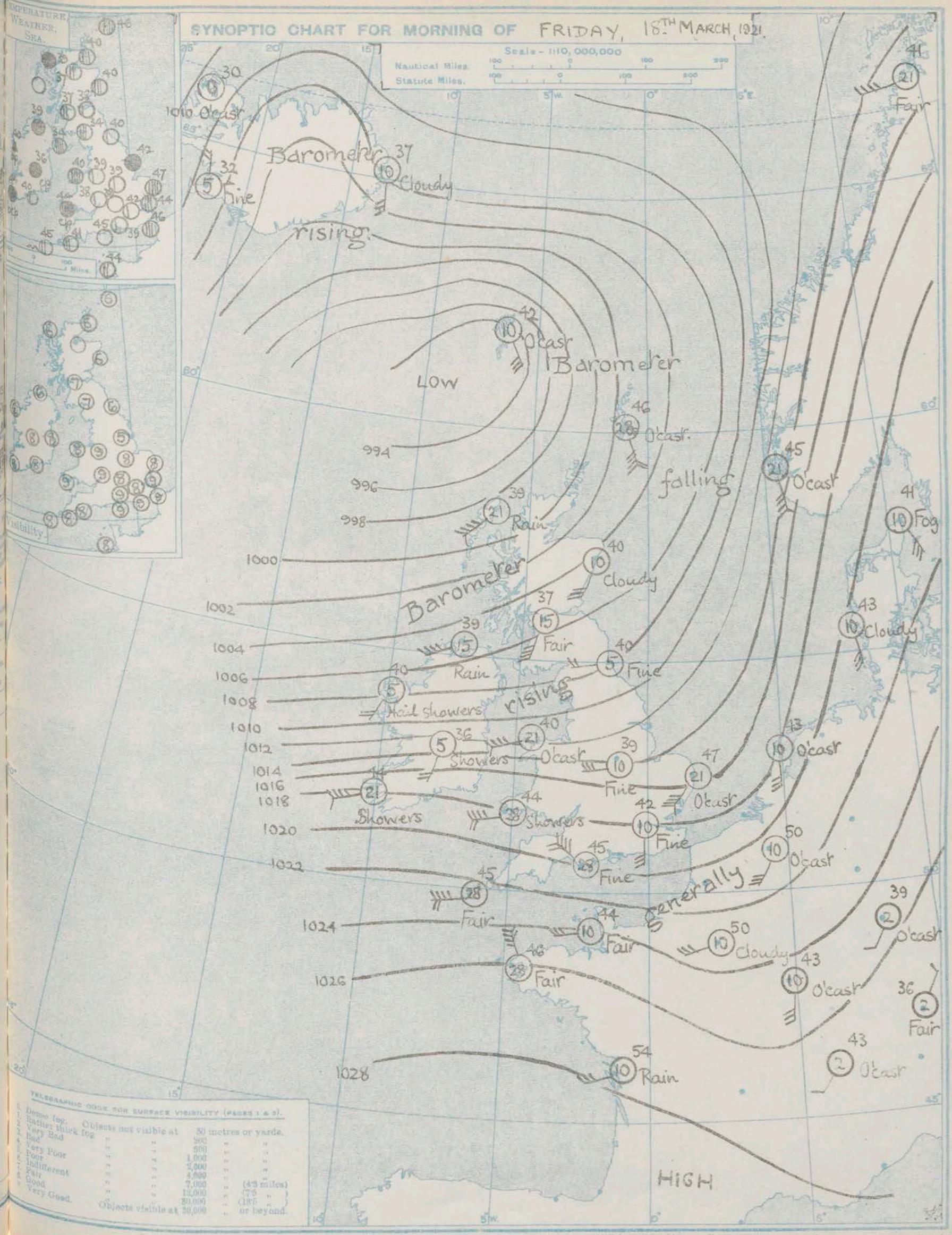


EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.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

GENERAL INFERENCE from observations received up to 9h.

The general distribution of pressure is unaltered. Mild weather with South-Westerly winds is probable for a day or two with alternating fine and showery periods generally but over Eastern England much rain is unlikely.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Friday 18th March, 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 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	Fresh to strong Westerly winds, backing somewhat and moderating; some showers locally but considerable bright intervals; visibility good; rather mild.	None issued.


SYNOPTIC CHART FOR MORNING OF FRIDAY, 18TH MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility
Barometer rising.
Low
Barometer falling
Barometer rising generally
HIGH
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Rather thick fog
2 Very Bad 200
3 Bad 500
4 Very Poor 1,000
5 Poor 2,000
6 Indifferent 4,000
7 Fair 7,000 (4·3 miles)
8 Good 12,000 (7·5 ")
9 Very Good. 30,000 (18·5 ")
Objects visible at 30,000 or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 77.

Friday 18th March 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 16th-17th	Rainfall. Day. 9h-18h. 17th	Sunshine. Sunrise to Sunset. 17th
Scotland.	Banff	b	b	51	35	-	-	8·0
	Montrose	bc	bc	50	36	1	-	8·8
England, N.E.	Harrogate	sm bc.c	co	53	38	-	-	4·5
	Skegness	m.c.b	b.bc.c	55	40	-	-	5·1
England, E.	Lowestoft	ot.c.bc	b.TT.c	59	46	0·3	-	4·7
	Felixstowe	c2	om	55	46	-	-	5·6
	Southend-on-Sea	bh	c.of	60	46	-	0·1	4·3
England, S.E.	Tunbridge Wells	c.bc	c.od	58	47	-	1	3·3
	Margate	c	c.b.c	58	46	-	-	2·4
	Ramsgate	*	*	55	46	-	-	3·1
	Folkestone	fc	c	52	46	-	-	0·0
	Hastings	c	c	50	47	0·4	-	0·0
	Eastbourne	c	c	51	48	1	-	0·0
	Brighton	dc.c	od.or	52	38	-	0·4	1·5
	Worthing	bc.c	or	53	48	0·3	1	2·4
	Portsmouth (S'thsea)	*	*	54	45	6	3	2·0
	Bournemouth	*	*	57	47	1	1	1·1
		*	*					
England, N.W.	Blackpool	c	bc	55	42	0·2	-	4·9
	Southport	c.bc.c	c.o.c	56	40	-	-	5·3
Midlands.	Leamington Spa	c	c	55	39	7	-	0·0
	Bath	b bc.c	cf	54	38	1	1	2·1
Wales.	Rhyl	c.bc	bcp	56	42	1	-	3·8
	Colwyn Bay	*	*	55	42	1	-	7·1
	Llandudno	c. bc	bc.c	55	41	0·3	-	7·8
	Aberystwyth	fc.c	c.c.c	54	45	1	-	5·5
England, S.W.	Weymouth	c	cfd	62	44	1	1	10·0
	Torquay	bc.c	ord m	54	42	0·3	1	0·8
	Paignton	c.c.bc	od.odm	55	38	-	1	0·8
	Penzance	bc	cf.f	53	45	0·3	1	2·4
	Bude	f	o.cr	55	43	-	2	1·2
	Ilfracombe	c.c.bc	bc.c	55	46	-	-	2·5

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h.17th	Weather. 13h-18h17th	Weather. 18h17th-1h18th	Weather. 1h-7h18th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew	h or hr	c	T or δ	b or bc	53	37	32	TR	6	6·1
Eskdalemuir	p	c	h or hr	s or RS	48	33	31	-	8	4·9
Valencia (Cahire'n)	p	r/r	h or hr	p	52	38	37	9	2	2·3
Baldonnel	c	p	h or hr	S or RS	53	32	36	0·2	7	3·3
Manchester (Alex Park)	c	co	T or δ	T or δ	55	38	35	-	3	*
Ross on Wye	c	c	b or bc	b or bc	55	36	31	TR	3	1·2
Falmouth	oo	r or d	T or δ	p	52	37	34	1	2	0·4
Calshot (Hants)	c	r or d	T or δ	c	54	40	?	2	0·6	2·2
Lympne (Folkestone)	form	r or d	T or δ	T or δ	52	43	41	-	2	0·6
Aberdeen	bc	b or bc	p	p	49	39	38	-	0·1	8·5
Howden	c	c	T or δ	T or δ	54	39	34	-	1	5·4
Cranwell (Lincs)	c	co	T or δ	p	57	38	36	-	2	3·3
Felixstowe	bc	co	T or δ	T or δ	57	44	42	-	4	5·5
Shoeburyness	c	c	T or δ	T or δ	59	43	41	-	2	4·3
Benson	c	r or d	p	p	57	36	32	1	1	*
S. Farnborough	c	r or d	T or δ	T or δ	58	38	35	0·4	2	4·3
London (Kew Obsy.)	bc	co	T or δ	T or δ	57	42	38	TRACE	2	4·9
Croydon	c	r or d	T or δ	T or δ	57	41	37	0·4	5	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; − = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0–5 ; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	3·4–5·4
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	64–73	28·5–32·6
12	Above 73	32·6 or above

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. 18th							Yesterday.		To-day.
Greenwich (Royal Observatory)	o	o	b.bc or bc	61	41	36	3	5·4	66	67
City (Bunhill Row)	*	*	*	*	*	*	*	5·6	*	*
Westminster (St. James's Park)	*	*	b	59	42	37	2	4·5	65	67
Regents Pk. (Botanical Gdns)	*	*	*	*	*	*	*	4·2	*	*
Camden Sq. (British Rainfall)	b	bc.c.o	*	60	41	36	2	*	64	69
Kensington Palace	o	o	*	59	41	38	2	*	96 (18h)	72
Hampstead Observatory	*	*	*	57	40	*	2	4·8	*	73

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.

18th & 19th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6·2	12·1	6·0
	6·0	12·1	6·2
Greenwich	6·7	12·8	6·7
	6·7	12·8	6·9
Wick	6·23	12·20	6·13
	6·20	12·20	6·20
Valencia	6·30	12·47	6·18
	6·48	12·49	6·30

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

Exposure from 17th 19h. 7m. to 18th 5h. 15m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	15	1	5	11
δ Ursæ Minoris	10	15	0	53	9

NOTES ON THE WEATHER OF YESTERDAY.

The temperature reached 60° at Southend, and failed to reach 50° at only a few stations in the North. Rain occurred more generally than of late, but the amount was nowhere very large. At Valencia the total was 11mm and at Stornoway 10mm. A thunderstorm occurred at Valencia and thunder was heard at Lowestoft.

* 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. 21,667 Saturday, 19th March, 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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 18th														18H. G.M.T. of 18th													
Renfrew	1009·7	+4	SW	5	co-	48	65	8	1500	StCu	5	A.St	6	*	1011·8	+3	WSW	3	PR	42	85	6	800	Nb	10	-	10	*
Eskdalemuir ...	1011·0	+4	WSW	6	ps	41	75	7	4000	Cu	4	Ci.St	8	*	1013·5	+2	SW	6	co-	40	97	7	2500	Cu	6	Ci.St	8	*
Valencia (Cahirc'n)	1023·4	+3	WSW	5	co+	46	55	9	2500	StCu	5	A.Cu	7	*	1024·5	+1	W	4	bc-	42	85	9	1500	StCu	3	A.Cu	5	6
Baldonnel ..	1018·1	+4	SW	5	co/r	42	85	8	1500	StCu	4	Ci.St	6	*	1019·3	+2	SW	4	co	44	85	9	4000	StCu	4	A.Cu	7	*
Manchester (Alex Pk)	1018·0	+3	WSW	6	co	48	65	9	1500	StCu	9	-	9	*	1019·0	+2	WSW	4	co/r	45	75	8	2500	Cu.Nb	7	Ci	8	*
Ross on Wye ...	1020·8	+3	WNW	5	cov	49	65	9	4000	Cu	7	Ci	8	*	1022·3	+2	W	4	bc-	44	75	9	2500	Cu.Nb	3	-	3	*
Falmouth	1025·6	+2	W	6	co	50	65	8	-	Cu	7	-	7	*	1027·2	+2	WSW	3	obr_0	45	75	8	2500	Cu.Nb	?	A.Cu	5	*
Calshot (Hants) * ...	1023·8	+3	W	5	co+	51	65	9	4000	Cu	7	-	7	*	1025·0	+2	SW	4	bc-	47	75	8	2500	St.Cu	3	-	3	1
Lympne (Folkestone)	1022·8	+3	WSW	5	cov	48	65	9	2500	StCu	8	-	8	*	1024·4	+2	WSW	4	bc-	43	85	8	2500	Cu	1	-	1	*
Aberdeen	1006·6	+4	SW	4	co+	42	75	8	2600	Nb	10	-	10	*	1007·1	0	SW	3	bc-	45	75	8	4000	StCu	1	-	1	0
Howden	1016·5	+3	WSW	6	bc-	46	65	7	2500	Cu	4	-	5	*	1018·3	+3	W	5	co-	46	65	6	2500	St	7	Ci.St	9	*
Cranwell (Lincs) ...	1019·0	+3	W	5	co+	47	65	8	4000	StCu	7	-	7	*	1020·8	+3	WSW	4	bc-	46	75	8	4000	Cu	2	Ci.St	4	*
Felixstowe ...	1021·5	+2	W	5	co+	48	65	8	4000	Cu	7	-	7	*	1023·0	+2	W	3	bc-	48	65	8	4000	StCu	2	-	2	*
Shoeburyness ...	1021·8	+2	WNW	7	bc-	51	55	7	4000	Cu	4	-	4	*	1023·0	+2	WNW	3	bc-	47	65	6	5750	Cu	1	-	1	*
Benson	1021·3	+3	W	5	bc+	50	65	8	-	Cu	5	-	5	*	1023·3	+3	W	3	bc-	45	85	6	-	Cu	1	-	1	*
S. Farnborough	1022·7	+1	W	4	co	51	55	8	4000	Cu	7	-	7	*	1023·9	+1	W	2	bc+	47	65	8	2500	StCu	2	-	2	*
London (Kew Obsy.)	1022·3	+1	WSW	4	bc+	50	55	8	4000	Cu	6	-	6	*	1023·5	+2	SW	2	bc	48	55	8	4000	Cu	1	-	1	*
Croydon	1022·4	+2	W	5	co+	51	55	8	4000	Cu	7	-	7	*	1023·8	+2	WSW	3	bc/r	47	65	8	4000	Cu	1	-	1	*
	1H. G.M.T. of 19th														7H. G.M.T. of 19th													
Renfrew ...	1010·0	-2	SW	4	RR	41	92	5	1500	Nb	10	-	10	*	1014·8	+4	SW	3	co	40	75	7	4000	StCu	2	CiCu	10	*
Eskdalemuir ...	1011·8	-3	SW	7	r_0+	38	92	5	2500	Nb	10	-	10	*	1016·1	+8	WSW	3	bc-	37	85	7	4000	Cu	1	Ci	2	*
Valencia (Cahirc'n)	1023·5	+2	NW	6	co/r	44	*	*	*	*	*	*	*	*	1024·1	0	SW	3	co	47	85	8	2500	St	9	A.St	10	0
Baldonnel ...	1020·0	0	SW	4	bc+	40	85	8	1500	StCu	1	A.St	3	*	1021·0	+2	SW	4	co+	41	92	8	1500	StCu	6	A.St	9	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·2	+2	WSW	4	rr	42	92	6	800	CuNb	9	-	9	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022·7	0	W	3	bc	42	85	9	4000	Cu	4	-	4	*
Falmouth ...	1027·7	0	W	3	bc	41	85	8	?	CuNb	2	-	2	*	1027·1	0	W	3	pr_0	42	92	8	-	?StCu	10	-	10	*
Calshot (Hants)...	1026·1	0	WSW	3	bc	41	85	8	-	-	-	-	-	*	1025·5	-1	WSW	4	co	42	85	8	5750	StCu	10		10	0
Lympne (Folkestone)	1025·4	+1	WSW	4	bc	37	85	9	-	-	-	-	-	*	1025·1	+1	WSW	4	co	40	85	8	2500	StCu	5	A.Cu	7	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011·2	+3	WSW	4	bc	39	75	8	4000	StCu	1	-	1	0
Howden ...	1018·2	-2	SW	3	bc-	38	92	6	-	-	-	Ci.St	1	*	1017·5	0	SW	4	co/r	41	85	6	1500	StCu	10	-	10	*
Cranwell (Lincs)	1021·3	0	SW	3	bc+	37	92	8	2500	Cu	1	CiCu	2	*	1020·1	-1	SW	4	co	39	92	8	4000	StCu	3	A.St	8	*
Felixstowe ..	1024·1	0	WSW	4	bc	40	85	7	-	-	-	-	-	A	1023·5	+1	WSW	4	co-	40	92	7	4000	StCu	10	-	10	3
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024·1	0	W	3	co+	41	75	7	2500	StCu	8	-	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022·8	0	WSW	3	bc	39	92	8	-	StCu	2	A.Cu	5	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·4	-1	SW	4	co	40	55	8	2500	StCu	9	-	9	*
London (M.O. at 1H.)	1024·7	+1	*	*	*	41	*	*	*	*	*	*	*	*	1023·9	0	SSW	3	bc+	40	85	8	4000	StCu	3	A.Cu	4	*
Croydon ...	1025·4	-1	WSW	4	bc	41	85	8	-	-	-	-	-	*	1024·8	0	SW	4	co+	40	85	8	4000	StCu	8	A.St	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.	† 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. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °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 ...	996·8	43	SW	5	co/r	998·5	-2	41	-5	W	5	-	PR-	4	5	9	46	36	p	p	?r r or d	*
Stornoway ...	1002·2	40	W	3	PR-	1010·4	+3	42	+3	W	1	-	bc+	*	17	0·6	48	37	c	p	b or bc, c	0·0
Castlebay (Barra Is)														*								
Malin Head ...	1010·9	43	W	4	PR	1015·8	+2	45	+6	WSW	2	-	co-	4	2	2	45	40	c	p	p. c.	4·9
Blacksod Point	1020·6	46	W	5	obr_0	1018·6	-1	47	+7	W	3	-	r_0r_0	2	2	1	47	36	c	p	p. o.	*
Roche's Point...	1024·2	46	W	3	co	1024·8	0	44	+4	WSW	2	-	co	2	3	0·2	49	41	p	c	b or bc	*
Birr Castle ...	1020·1	45	W	2	co-	1021·4	*	43	+7	W	1	-	bc/r	*	2	1	49	39	h or hr	c	r or d	6·4
Donaghadee ...	1015·3	44	W	3	co/r	1018·0	+5	37	+3	W	2	-	bc/f	1	2	?	48	33	S or RS	p	p	*
Liverpool (Bidston)	1018·8	45	WSW	5	cov	1018·6	+1	41	+2	WSW	6	-	r_0	6	*	trace	49	39	b or bc	b or bc	r or d	5·9
Holyhead ...	1019·5	45	SW	4	co/r	1020·5	+2	44	+4	W	5	-	co+	6	0·1	[illegible]	49	42	c	c	b or hr r or d	3·9
Pembroke (St. Ann's Head)	1023·5	46	W	5	bc	1023·9	0	46	+2	W	4	-	co+	4	-	0·6	48	42	c	b or bc	p. c	9·2
Scilly (St. Mary's)	1026·2	47	W	5	bc+	1027·8	0	46	+1	W	4	-	co+	?	trace	1	50	43	b or bc	p	b or bc. p	9·2
Jersey (St. Aubin)	1028·1	48	WNW	5	bc/r	1028·4	0	46	+2	SW	5	-	bc/r	3	trace	1	52	44	p	p	p	10·0
Portland Bill ...	1025·3	47	W	5	bc	1025·4	-2	46	+1	W	5	-	bc	5	-	-	49	43	b or bc	b or bc	b or bc	*
Dungeness ...	1023·6	48	WSW	4	bc-	1024·7	-1	43	-3	W	4	-	bc+	4	-	-	52	42	b or bc	b or bc	b or bc	*
Wick	1010·7	42	SW	2	co+	?	+2	40	0	W	4	-	bc	3	0·1	2	48	35	c	p	b or bc	*
Nairn	1003·1	42	W	3	c	1010·3	*	39	+2	SW	1	-	bc	1	0·2	1	47	36	beg bc	c bc, cq	cq. pqo	6·3
Leith	1010·3	41	SW	2	c	1013·3	+2	38	0	W	2	W	b	2	2		48	37	b. bc p. c	c p. o. c.	c. b. o. [illegible]	*
Tynemouth ...	1013·1	47	W	3	obr_0	1013·6	-1	42	+2	W	3	-	bc/r	1	trace	1	48	40	b or bc	p	b or bc	*
Spurn Head ...	1018·9	45	W	3	co	1017·7	0	40	-2	WSW	6	-	prs_0	4	trace	1	49	38	c	c	b or bc	*
Yarmouth (Gorleston)	1020·9	48	W	2	bc/s	1021·8	-1	38	-9	SW	4	-	co-	0	0·4	-	51	31	oo	S or RS	b or bc. c	8·0
Clacton-on-Sea..	1022·6	49	W	4	bc	1024·4	0	41	-3	WSW	4	-	co+	4	-	-	52	40	b or bc	b or bc	b or bc	9·0
Nottingham ...	1020·6	47	W	4	bc-	1020·1	*	41	+2	SW	3	-	pr_0	*	-	trace	51	38	c	c	c	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.

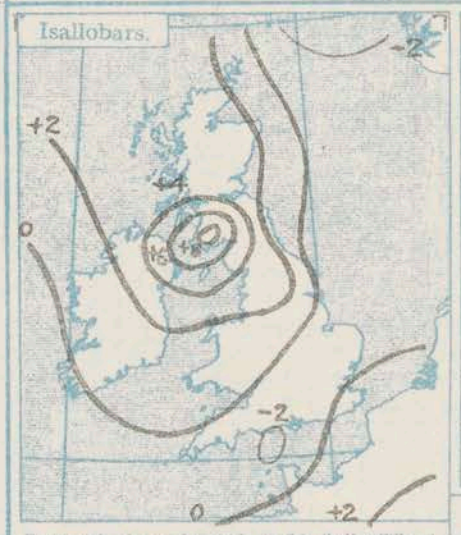
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 19. 3. 21.

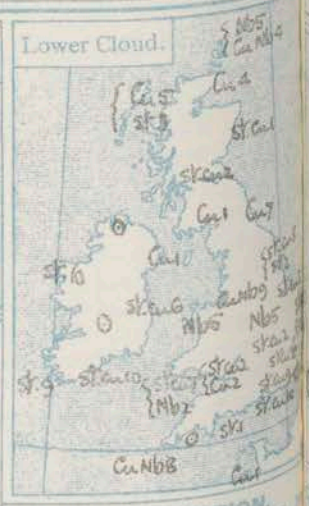
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to cloudy.	Good.	Slight
2. E. England	Fair to cloudy.	Fair.	Mod.
3. E. Midlands	Fair to cloudy.	Good.	-
4. W. Midlands	Fair.	V.Good.	-
5. S.W. England	Fair to dull, slight local showers.	Good.	Mod.
6. South Wales	Cloudy.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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
4a	18th	0430	45	43
5	18th	0821	46	40
3	18th	1000	47	47
8	18th	1040	46	49



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



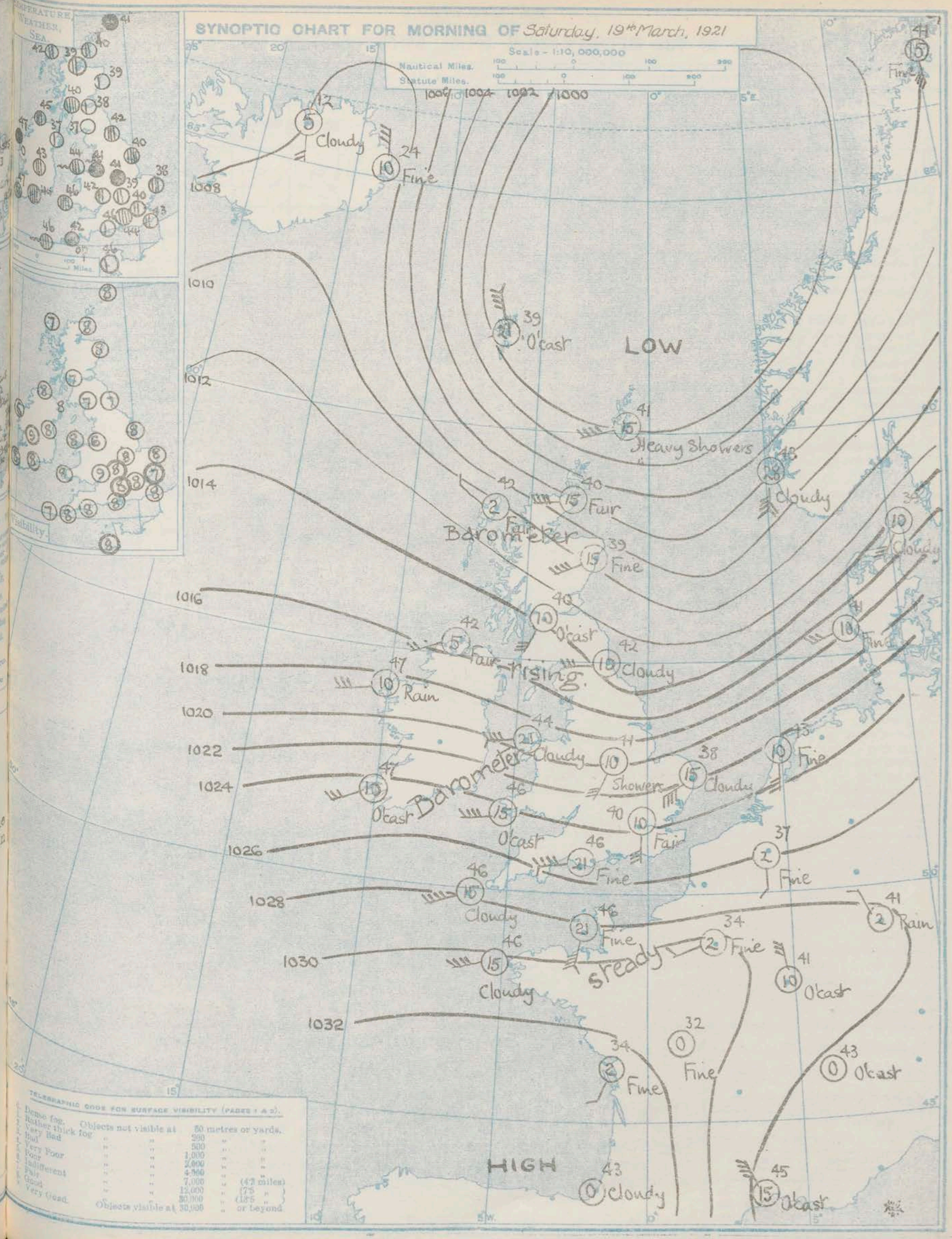
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0–12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.
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 indications of another depression out in the Atlantic but it is not likely to affect the weather over the British Isles during the next two days during which the weather will be fair to fine and mild with moderate West to South-West winds.

Districts.	Forecasts for the 24 hours commencing 15h. G.M.T. Saturday, 19th March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate West to South-West wind; fair to fine; visibility mainly good; mild.	Mainly fair and mild for the next two days in all districts.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Moderate South-West wind; local showers at first then fair to fine; visibility mainly good; milder.	
19. S.E. Ireland 20. S.W. Ireland	Moderate South-West wind; fair; visibility good; mild.	

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 Saturday, 19th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA
Visibility
LOW
HIGH
Barometer rising.
Barometer steady
Cloudy
Fine
Heavy Showers
Fair
O'cast
Rain
Showers
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
1028
1030
1032
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
1 Dense fog. Objects not visible at 50 metres or yards.
2 Rather thick fog " " 200 " "
3 Very Bad " " 500 " "
4 Bad " " 1,000 " "
5 Very Poor " " 2,000 " "
6 Poor " " 4,000 " "
7 Indifferent " " 7,000 (4·2 miles)
8 Fair " " 12,000 (7·5 ")
9 Good " " 30,000 (18·5 ")
Very Good. Objects visible at 30,000 " or Beyond

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 78.

Saturday 19th March 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 17th-18th	Rainfall. Day. 9h-18h. 18th	Sunshine. Sunrise to Sunset. 18th
Scotland.	Banff	b bc c	bc	48	38	1	-	6.0
	Montrose	bc	bc	49	37	1	-	7.6
England, N.E.	Harrogate	bc c b p	b bc p	47	35	1	0.2	8.4
	Skegness	b	b	51	41	2	-	8.2
England, E.	Lowestoft	bc	bc	52	43	4	-	7.6
	Felixstowe	bc q	bc	52	43	5	-	7.4
	Southend-on-Sea	c bc	bc b	54	42	2	-	7.6
England, S.E.	Tunbridge Wells	b	b bc b	52	40	8	-	8.5
	Margate	c bc b	b bc	53	44	0.2	-	7.6
	Ramsgate	*	*	57	43	1	-	6.9
	Folkestone	c bc	bc	52	44	2	-	8.0
	Hastings	bc b	b	51	43	2	-	9.3
	Eastbourne	b	b	50	43	4	-	9.5
	Brighton	bc	bc	51	43	7	-	9.6
	Worthing	bc	bc	52	42	6	-	10.5
	Portsmouth (S'thsea)	*	*	53	41	1	-	10.8
	Bournemouth	*	*	53	39	4	-	9.5
	]	*	*					
England, N.W.	Blackpool	o p	c	47	39	3	-	3.5
	Southport	o c bc	bc c oc	48	?	3	-	7.2
Midlands.	Leamington Spa							
	Bath	b bc	b	51	38	3	-	9.7
Wales.	Rhyl	c bc	c bc	50	38	1	-	6.5
	Colwyn Bay	*	*	48	38	3	-	7.2
	Llandudno	c c p c	c	50	39	5	0.1	5.6
	Aberystwyth	r o c	c	47	41	6	15	6.0
England, S.W.	Weymouth	b p b	bc b	54	40	4	0.2	10.4
	Torquay	b q bc	bc q b	53	37	2	1	8.8
	Paignton	bc p h	bc p h b	53	37	2	1	8.4
	Penzance	c bc p r	c bc	52	38	3	1	8.1
	Bude	h r h h c	bc c p	50	40	4	-	7.1
	Ilfracombe	o c bc p	bc c p	53	45	7	1	8.0

Summaries for past 24 Hours.

STATIONS.	Weather. 7h-13h. 18th	Weather. 13h-18h. 18th	Weather. 18h. 18th-7h. 19th	Weather. 7h-7h. 19th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	h o h r	p	r o d	r o d	48	36	31	4	8	4.1
Eskdalemuir	p	h o h r	r o d	r o d	43	35	31	1	5	2.7
Valencia (Cahire'n)	b o r bc	h o h r	r o d	p	48	42	40	2	1	6.2
Baldonnel	p	r o d	b o r bc	c	?	39	35	?	-	7.7
Manchester (Alex Park)	oo	p	r o d	r o d	49	39	35	Trace	3	*
Ross on Wye	b o r bc	p	b o r bc	b o r bc	52	39	34	0.1	-	8.5
Falmouth	c	p	p	c	51	39	36	0.4	1	9.1
Calshot (Hants)	b o r bc	p	b o r bc	c	54	?	?	Trace	-	10.6
Lympne (Folkestone)	b o r bc	c	b o r bc	b o r bc	50	36	33	-	-	?
Aberdeen	b o r bc	b o r bc	b o r bc	b o r bc	49	36	29	-	-	7.6
Howden	c	c	b o r bc	r o d	49	? 36		-	0.2	7.5
Cranwell (Lincs)	c	c	b o r bc	c	51	36	33	-	-	8.8
Felixstowe	b o r bc	b o r bc	b o r bc	c	49	39	36	-	?	7.5
Shoeburyness	c	b o r bc	b o r bc	b o r bc	53	?	34	-	-	7.4
Benson	b o r bc	b o r bc	b o r bc	b o r bc	53	37	30	-	-	*
S. Farnborough	c	c	c	c	54	36	29	-	-	10.7
London (Kew Obsy.)	b o r bc	b o r bc	b o r bc	b o r bc	52	39	33	-	-	9.6
Croydon	c	p	b o r bc	b o r bc	52	37	31	Trace	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	28·5–32·6
12	Above 75	32·6 or above

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. 19th							Yesterday.		To-day.
Greenwich (Royal Observatory)	bc	p bc. b.	bc	55	38	30	-	9.6	57	69
City (Bunhill Row)	*	*	*	*	*	*	*	9.1	*	*
Westminster (St. James's Park)	*	*	b	55	39	33	-		55	67
Regent's Park (Botanical Gdns.)	*	*	*	*	*	*	*	7.9	*	*
Camden Sq. (British Rainfall)	b.	b bc	*	55	37	32	-	*	51	74
Kensington Palace	bc.	bc. b	*	53	38	34	-	*	52 (18h)	75
Hampstead Observatory	*	*	*	51	36	*	-	9.8	*	74

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.

19th–20th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	6.0	12.1	6.2
	5.58	12.1	6.3
Greenwich	6.7	12.6	6.9
	6.5	12.3	6.10
Wick	6.20	12.20	6.20
	6.18	12.20	6.21
Valencia	6.48	12.49	6.50
	6.46	12.49	6.51

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

Exposure from 18th 19h. m.
to 19th 5 h. 15 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	10	15	10	9	99
δ Ursae Minoris	10	15	10	7	99

NOTES ON THE WEATHER OF YESTERDAY.

A few stations recorded rather large amounts of rain, Stornoway 18 mm and Glasgow 12 mm, but in many places there was little or none. Sunshine records were generally good, amounting to ten hours locally in the South. The temperature was somewhat lower than of late. A slight ground frost occurred at night at Aberdeen and South Farnborough.

* 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. 21,668 SUNDAY, 20th MARCH 1921.

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

Columns (each time): 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 | Total Amt. 0-10 | Sea 0-9

13H. G.M.T. 19th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1014·5	-2	SSW	4	or₀	45	85	7	1500	Nb	10	-	10	*
Eskdalemuir	1016·1	-1	SW	5	r₀r₀	41	83	5	2500	Nb	10	-	10	*
Valencia (Cahirc'n)	1020·8	-3	WSW	5	c₀/r	52	97	7	225	St	8	-	8	*
Baldonnel	1018·9	-4	SW	3	rr	46	97	6	500	St	8	-	10	*
Didsbury	1020·3	0	W	5	co	48	75	6	2500	St.Cu	10	-	10	*
Ross on Wye	1022·5	0	WNW	5	co⊕	50	65	9	4000	Cu	5	Ci.St	10	*
Falmouth	1027·1	-1	W	6	opr₀	50	75	7	-	Nb	8	A.St	10	*
Calshot (Hants)	1025·4	0	SW	4	co	49	75	8	4000	St.Cu	8	-	8	*
Lympne (Folkestone)	1023·9	-2	WSW	5	co+	49	65	9	2500	St.Cu	7	-	7	*
Aberdeen	1011·7	-1	W	3	co+	48	65	8	4000	Cu	1	A.St	8	*
Howden	1019·0	+1	W	6	co+	49	65	6	4000	St	10	-	10	*
Cranwell (Lincs)	1021·2	0	WSW	4	co/r	49	75	9	2500	Cu	7	A.Cu	10	*
Felixstowe	1023·2	-1	W	4	co+	49	75	8	5750	St.Cu	10	-	10	*
Shoeburyness	1023·2	-2	WNW	4	co	50	65	6	2500	St.Cu	6	A.Cu	8	*
Benson	1023·3	0	WSW	4	c	50	65	7	-	Cu	7	-	7	*
S. Farnborough	1024·3	0	WSW	3	co+	50	65	8	4000	St.Cu	10	-	10	*
London (Kew Obsy.)	1023·8	-2	WSW	3	co+	50	55	9	2500	St.Cu	10	-	10	*
Croydon	1024·4	0	W	4	co	49	65	8	2500	Cu	9	-	9	*

18H. G.M.T. of 19th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1009·0	-4	WSW	4	co	46	92	7	1500	St.	9	A.St	10	*
Eskdalemuir	1010·4	-7	S	5	rr	42	92	5	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1024·7	+4	WNW	4	co/r	49	75	7	1500	St	10	-	10	3
Baldonnel	1017·1	+2	W	5	co-	47	85	6	800	St.	6	A.Cu	7	*
Didsbury	1016·1	-4	SW	3	rr	45	85	5	1500	St.	10	-	10	
Ross on Wye	1019·7	-4	WSW	4	d₀	46	85	7	2500	Nb	10	-	10	*
Falmouth	1023·2	-5	SW	6	DD	48	97	?2	-	Nb	10	-	-	*
Calshot (Hants)	1023·4	-1	SW	4	rr	47	92	6	800	Nb	10	-	10	?0
Lympne (Folkestone)	1022·7	-1	WSW	5	co	44	85	8	5750	St.Cu	2	Ci.St	7	*
Aberdeen	1006·8	-7	SSW	3	co/r	43	92	7	2500	St.Cu	9	-	9	0
Howden	1015·9	-4	SW	3	rr	44	92	5	1500	Nb	10	-	10	*
Cranwell (Lincs)	1018·7	-2	SW	3	r₀+	45	65	7	1500	Nb	10	-	10	*
Felixstowe	1021·1	-2	SW	3	co	48	85	7	-	-	-	A.St	8	1
Shoeburyness	1021·5	-2	SSW	3	co+	49	75	6	2500	Cu	5	A.St	10	*
Benson	1021·5	-1	SW	1	r₀+	45	85	6	-	Nb	10	-	10	*
S. Farnborough	1022·2	-2	SW	3	rr	47	86	7	800	Nb	10	-	10	*
London (Kew Obsy.)	1021·7	-2	WSW	4	r₀	50	65	7	2500	Nb	3	A.St	10	*
Croydon	1022·3	-2	WSW	4	co	49	65	8	2500	St.	4	A.St	10	*

1H. G.M.T. OF 20th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1011·9	+3	W	3	pr₀	39	85	7	1500	Cu	5	Ci.St	7	*
Eskdalemuir	1011·9	-1	WNW	4	pr₀	38	85	6	2500	Nb	10		10	*
Valencia (Cahirc'n)	1024·7	0	WNW	5	bc/r	48	*	*	*	*	*	*	*	*
Baldonnel	1020·1	+2	W	5	bc-	40	85	7	2500	St.Cu	1	A.St	2	*
Didsbury	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1025·0	+1	NW	6	bc-	46	65	8	-	Cu Nb	3	-	3	*
Calshot (Hants)	1017·0	-6	NW	5	bc	47	85	8	-	-	-	A.St	2	*
Lympne (Folkestone)	1014·9	-7	SW	5	RR	43	97	4	800	Nb	10		10	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1012·4	+2	WNW	3	bc/r	41	92	6	2500	Nb	4	-	4	*
Cranwell (Lincs)	1014·1	0	WNW	3	bc/r	41	92	8	4000	Cu	1		1	*
Felixstowe	1014·2	-8	NNW	4	dd	45	97	6	2500	Cu Nb	7	A.St	10	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1a.)	1015·4	-6	*	*	*	47	*	*	*	*	*	*	*	*
Croydon	1016·1	-7	WSW	5	rr	44	92	7	800	Nb	10	-	10	*

7H. G.M.T. OF 20th

Stations	Barom. at M.S.L. mb.	Change in 3 hours	Wind Direc.	Force 0-12	Weather	Temp. °F.	% Humidity	Visibility 0-9	Height of Low Cloud Feet	Low Cloud Form	Low Cloud Amt. 0-10	Upper Cloud Form	Total Amt. 0-10	Sea 0-9
Renfrew	1013·3	-1	WSW	3	bc-	39	92	8	2500	Cu Nb	3	A.St	6	*
Eskdalemuir	1011·1	0	W	3	co-	37	85	8	2500	St.Cu	9	-	9	*
Valencia (Cahirc'n)	1026·9	0	WNW	5	co	48	75	8	1500	St.Cu	8	A.Cu	9	3
Baldonnel	1019·2	0	NW	4	co+	42	85	7	1500	St	8	A.St	10	*
Didsbury	1015·4	0	W	5	co	43	85	8	800	St	8	A.Cu	9	*
Ross on Wye	1018·6	+1	WNW	3	co-	42	85	8	2500	St.Cu	2	Ci	7	*
Falmouth	1024·5	+1	WNW	5	co	46	75	8	-	St.Cu	1	A.St	10	*
Calshot (Hants)	1019·2	+2	W	5	bc	43	85	8	-	-	-	-	-	0
Lympne (Folkestone)	1016·4	+2	W	4	bc+	39	85	8	5750	St.Cu	1	-	1	*
Aberdeen	1006·5	+1	W	3	bc-	39	85	9	-	-	-	-	-	0
Howden	1012·6	+1	W	4	co+	40	55	6	2500	St	9	-	9	*
Cranwell (Lincs)	1014·6	0	W	3	co+	41	92	8	2500	St.Cu	4	A.St	6	*
Felixstowe	1015·4	+2	NW	5	bc-	44	92	8	-	-	-	-	-	4
Shoeburyness	1015·8	+3	WNW	2	bc/r	41	75	7	-	-	-	-	-	*
Benson	1017·4	+1	W	3	bc-	40	85	7	-	-	-	-	-	*
S. Farnborough	1017·7	+2	WSW	3	bc	40	85	8	-	-	-	-	-	*
London (M.O. at 1a.)	1017·6	+2	WSW	2	co/r	41	75	8	4000	St.Cu	6	-	6	*
Croydon	1017·7	+1	W	3	co+	44	85	8	2500	St.Cu	4	A.Cu	8	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

Stations	18H. G.M.T. of 19th: Barom. at M.S.L. mb.	Temp. °F.	Wind Direc	Wind Force 0-12	Weather	7H. G.M.T. of 20th: 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. 20th: Rainfall mm. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours (19th)
Lerwick	1002·8	43	W	4	co+	1004·1	+4	44	+3	-	0		bc-	0	2	2	46	36	p	p.	c	*
Stornoway	1004·4	44	W	5	PR	1008·4	+4	38	-4	WNW	1		bc-	0	2	3	46	34	p	p	b or bc	0·0
Castlebay (Barra Is)																						
Malin Head	1011·9	46	SSW	4	co	1013·6	+1	46	-1	WNW	4		pr₀	6	0·3	0·3	48	40	r or d	p	p	0·2
Blacksod Point	1021·1	48	NW	3	o	1019·2	+2	47	0	NW	3		co+	2	0·3	0·1	52	41	r or d	c	p	*
Roche's Point	1021·6	50	WNW	5	co/r	1024·7	0	47	+3	WNW	5		co+	2	2	-	54	44	r or d	r or d	b or bc	*
Birr Castle	1019·4	47	W	3	co•	1021·4	*	45	+2	W	3		co+	*	4	1	49	39	r or d	r or d	r or d	0·0
Donaghadee	1013·6	47	W	4	co/r	1015·2	0	41	+4	WNW	3		pr₀	5	3	-	48	38	c	r or d	p	*
Liverpool (Bidston)	1015·0	45	SW	3	d-	1015·7	0	43	+2	W	5		co/r	4	1	1	49	42	b or bc	r or d	o-o	2·2
Holyhead	1014·9	47	SW	5	rr	1018·0	-1	44	0	W	7		co	7	7	0·6	48	42	r or d	r or d	c	0·0
Pembroke (St. Ann's Head)	1019·3	47	SW	5	dd	1021·8	0	46	0	WNW	5		co+	4	0·3	-	48	45	oo	r or d	c	0·0
Scilly (St. Mary's)	1023·4	49	W	5	fo	1025·6	0	48	+2	WNW	6		co-	7	1	0·4	52	46	c	r or d	f	0·3
Jersey (St. Aubin)	1027·3	48	WSW	5	co	1023·7	+1	47	+1	NW	4		co/r	3	1	3	52	47	r or d	c	b or bc	3·3
Portland Bill	1023·1	48	W	5	r₀r₀	1020·0	+3	46	0	NW	6		bc	3	1	1	56	44	b or bc	r or d	b or bc	*
Dungeness	1022·4	47	WSW	4	co	1016·5	+4	40	-3	WNW	4		bc-	4	-	4	52	39	c	c	r or d	*
Wick	1003·0	43	SSW	3	r	1004·2	+2	40	0	WNW	3		co+	0	1	1	48	36	b or bc	r or d	b or bc	*
Nairn	1003·3	45	WSW	4	c	1007·3	*	38	-1	W	1		bc	1		TRACE	47	36	bcqg	cqpg	cqpg	1·8
Leith	1007·7	45	SSW	4	o	1008·3	0	40	+2	W	2		c	2		1	47	38	bc.o.c	cp.o	cp.cu.c	*
Tynemouth	1012·0	45	SW	4	fo	1009·1	-1	41	-1	W	5		co	0	1	TR	50	39	b or bc	r or d	b or bc	*
Spurn Head	1016·0	45	WSW	5	r₀+	1011·1	+1	41	+1	WNW	6		bc+	4	0·2	2	?48	40	oo	oo	b or bc	*
Yarmouth (Gorleston)	1019·6	49	W	3	bc+	1013·2	0	40	+2	NW	4		bc/r	1	1	5	51	40	r or d	b or bc	o-o	6·5
Clacton-on-Sea	1021·2	49	WSW	3	co+	1014·9	+2	41	0	WNW	4		bc/r	2	-	4	52	40	-	b or bc	r or d	4·8
Nottingham	1017·8	45	SW	3	r	1014·7	*	43	+2	W	3		co-	*	0·4	1	51	42	c	p	c	3·0

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

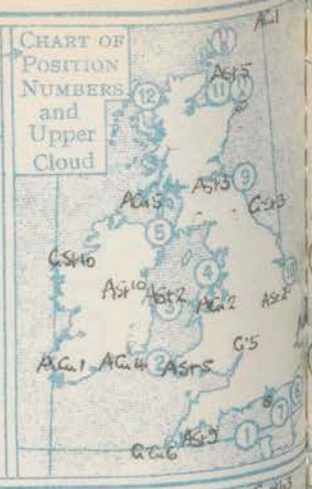
M.O. FORM 2370.

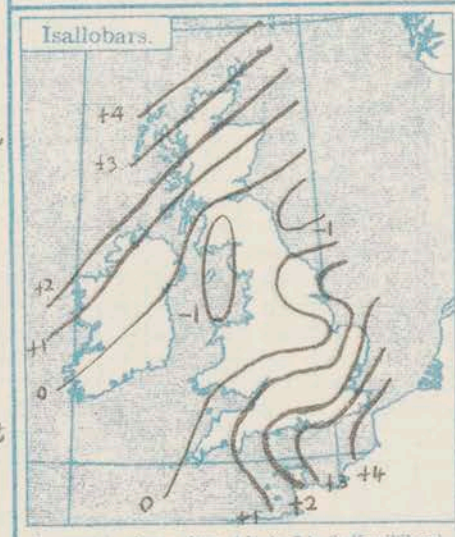
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 20.3.21.

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fine to cloudy.	Good.	Mod.
2. E. England	Fine to cloudy.	Fair.	"
3. E. Midlands	Fine to cloudy.	Fair.	-
4. W. Midlands	Fair generally.	Fair.	-
5. S.W. England	Dull, slight local rain.	Good.	Mod.
6. South Wales	Dull.	Fair.	"
7. North Wales	Dull.	Good.	Rough
8. N.W. England	Dull.	Fair.	Mod.
9. N. Midlands	Dull.	Indif.	-
10. N.E. England	Fair generally.	Good.	Mod.
11. E. Scotland	Fair.	Good.	Slight
12. S.W. Scotland	Fair generally.	Good.	Mod.
13. Isle of Man	Cloudy.	Good.	"
14. N.& N.W. Scotland	Fair generally.	Good.	Calm.
15. Hebrides	Fair.	Fair.	Calm.
16. Orkneys and Shetlands	Fair.	Fair.	Calm.
17. N.W. Ireland	Cloudy, local showers.	Fair.	Mod.
18. N.E. Ireland	Fair, local showers.	Good.	Slight
19. S.E. Ireland	Dull.	Fair.	Mod.
20. S.W. Ireland	Cloudy.	Good.	Mod.

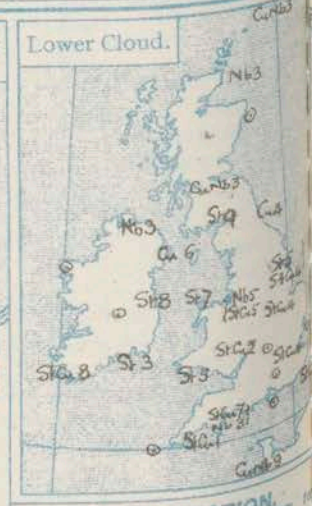
Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
2	19th	0220	47	45
7	"	0325	47	46
4A	"	0430	43	44
12	"	0450	51	42
5	"	0818	46	44
6	"	1400	49	48
1	"	1200	49	53
2	20th	0330	48	45
7	"	0230	46	48
8	"	0500	45	44
4A	"	0512	45	44





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



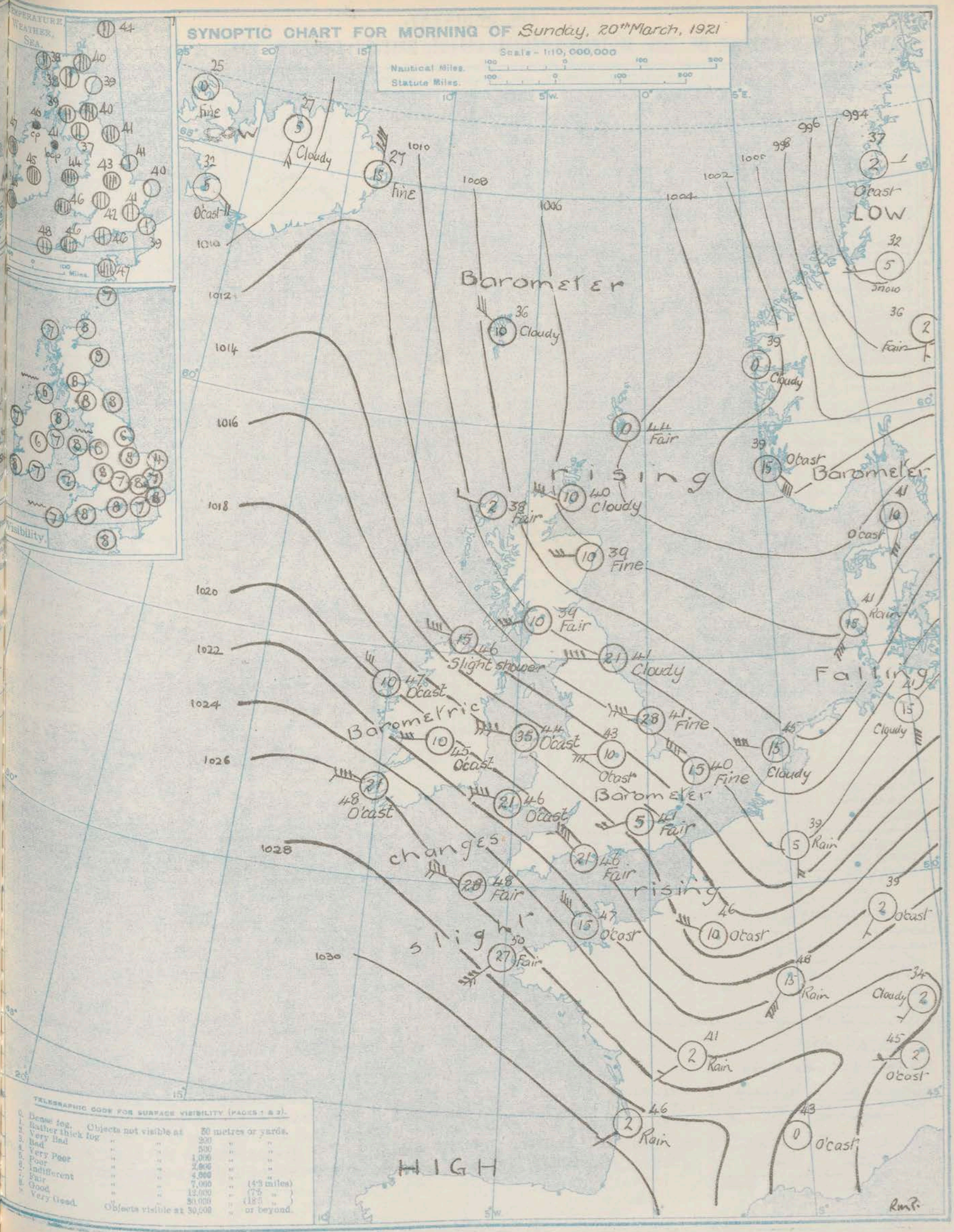
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.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

GENERAL INFERENCE from observations received up to 9h.

A ridge of high pressure will cause mainly fair weather temporarily. There is however a probability of further disturbances causing a renewal of rainy conditions spreading from Westward before long.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 20th March, 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 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 Westerly, moderate or fresh; mainly fair but some local showers; visibility fair to good; mild during day rather cold at night.	Winds Westerly; changeable weather; temperature moderate to mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind Westerly backing later towards South, moderate to strong; fair at first probably some rain later; visibility fair to good; mild.	

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


SYNOPTIC CHART FOR MORNING OF Sunday, 20th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE
WEATHER.
SEA.
Visibility.
LOW
Barometer
rising
Falling
Barometric
changes
slight
HIGH
Fine
Cloudy
Fair
O'cast
Slight shower
Rain
Snow
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Rather thick fog " " 200 " "
2 Very Bad " " 500 " "
3 Bad " " 1,000 " "
4 Very Poor " " 2,000 " "
5 Poor " " 4,000 " "
6 Indifferent " " 7,000 (4·3 miles)
7 Fair " " 12,000 (7·5 ")
8 Good " " 20,000 (18·5 ")
9 Very Good. " " 30,000 or beyond.
Rm.P.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 79.

SUNDAY 20th MARCH 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	or	48	37	1	1	3.3
	Montrose	bc	o	49	36	–	1	3.2
England, N.E.	Harrogate	bc	bccop	49	38	6	1	5.2
	Skegness	o.b,bc	bcor	53	36	1	–	4.1
England, E.	Lowestoft ...	bc.c	c.bc	51	36	–	–	5.6
	Felixstowe	bm	ogm	52	39	–	–	4.7
	Southend-on-Sea...	bc	bccp	53	38	–	–	5.5
England, S.E.	Tunbridge Wells	b.bc	bc.c	52	36	–	–	4.6
	Margate	bc.b	bc.c	53	37	–	–	6.1
	Ramsgate	*	*	53	35	–	–	5.6
	Folkestone							
	Hastings	bc	b.bc	51	39	trace	–	6.9
	Eastbourne	c.bc	bc.o	50	43	–	–	6.9
	Brighton	o.bc	bc.o	51	46	–	–	6.5
	Worthing							
	Portsmouth (S'thsea)	–	–	53	42	–	–	7.2.
	Bournemouth ...	*	*	53	39	–	1	3.8
	)	*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 18th-19th	Rainfall. Day. 9h-17h. 19th	Sunshine. Sunrise to Sunset. 19th
England, N.W.	Blackpool	bcor		49	42	2	2	3.9
	Southport	cbcco	or	49	41	2	3	3.7
Midlands.	Leamington Spa...	c.b	or	52	36	0.2	2	3.3
	Bath	bbcc	bc.c,or	52	33	3	3	4.8
Wales.	Rhyl	cbccp		50	41	3	1	2.3
	Colwyn Bay ...	–	–	50	40	3	1	1.1
	Llandudno	c.bc.o	odr	48	42	5	1	1.7
	Aberystwyth ...	o.c.o	r.o.r	48	41	–	5	0.3
England, S.W.	Weymouth	b.bc	bc.cr	55	42	–	2	6.0
	Torquay	b.bcr	corr	52	40	–	1	3.2
	Paignton	bcp	cop	53	36	–	2	2.5
	Penzance	c.	c.ord	53	42	2	1	0.8
	Bude	o	r	49	43	1	3	0.0
	Ilfracombe	ocbc.c	codr	51	43	1	3	2.2

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 19th	Weather. 13h-18h 19th	Weather. 18h 19th-1h 20th	Weather. 1h-7h 20th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	oo	r or d	o	r or d	46	38	30	1	2	0.5
Eskdalemuir	r or d	r or d.	2	r or d	44	?36	?	6	4	2.3
Valencia (Cahirc'n) ...	r or d	r or d	r or d	c	52	44	44	5	-	1.1
Baldonnel	r or d	r or d	c	c	50	37	33	4	-	0.0
Didsbury ...	oo	r or d	r or d	r or d	?49	42	36	2	2	*
Ross on Wye... ...	b or bc	r or d	b or bc	b or bc	51	41	33	1	0.5	4.0
Falmouth	oo	r or d.	b or bc	c	51	44	41	2	2	0.2
Calshot (Hants)... ...	c	r or d	r or d	b or bc	52	40	*	0.3	2	6.3
Lympne (Folkestone) ...	c	c	r or d	r or d	52	39	34	–	7	5.6
Aberdeen	c	r or d	b or bc	b or bc	49	38	33	2	-	3.3
Howden	c	p	r or d	c	51	38	34	2	1	3.9
Cranwell (Lincs)	p	p	r or d	b or bc	52	38	25	0.4	2	2.0
Felixstowe	c	c	r or d	r or d	52	40	38	–	4	4.5
Shoeburyness	c	c	r or d	r or d	52	40	36	–	4	4.9
Benson	b or bc		b or bc	b or bc	53	39	31	1	1	*
S. Farnborough ...	c		b or bc	b or bc	54	36	33	0.3	2	4.9
London (Kew Obsy.) ...	b or bc	0.0	r or d	r or d	53	40	33	–	3	5.4
Croydon	c	0.0	r or d	r or d	52	40	35	–	4	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; – = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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)	b. c.o.	o. or	or.c	54	40	33	3	6.5	58	69
City (Bunhill Row)	*	*	*	*	*	*	*	*	*	*
Westminster (St. James's Park)	*	*								
" (Admiralty Arch)						*				
Camden Sq. (British Rainfall)	bc.c	c	*	55	39	34	4	*	61	64
Kensington Palace	b.o. bc	bc o	*	53	40	36	5	*	64 (18h)	72
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.

20th & 21st MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5.58	12.1	6.5
	5.56	12.0	6.4
Greenwich	6.5	12.8	6.10
	6.3	12.7	6.11
Wick ...	6.18	12.20	6.21
	6.16	12.19	6.23
Valencia ...	6.46	12.49	6.51
	6.44	12.48	6.52

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 all parts of the Kingdom, most stations registering from 2 to 5 mm. The highest measurement was 10mm at Eskdalemuir. In East and South-East England practically all the fall occurred after sunset and the day period was fine with from 5 to 7 hours of sunshine. Temperature rose to a little above 50° at most places and reached 55° at Weymouth.

* 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. 21669 MONDAY 21ST MARCH 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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. of 20th													
Renfrew	1014.5	+5	NW	3	cot	49	65	8	2500	St Cu	5	-	8	*
Eskdalemuir	1013.1	+4	NW	5	co-	48	60	7	4000	Cu	6	-	6	*
Valencia (Cahirc'n)	1024.1	0	W	4	co	50	85	6	800	St	6	A St	10	*
Baldonnel	1020.9	+2	W	4	co	45	76	6	2500	St Cu	10	-	10	*
Manchester (Alex. Pk)	1018.3	+1	WNW	5	co	44	75	6	1500	St Cu	10	-	10	*
Ross on Wye	1019.9	-1	NW	5	bc/-	47	85	8	4000	Cu Nb	6	-	6	*
Falmouth	1024.4	-1	WNW	6	ff o	50	78	5	-	St Cu	10	-	10	*
Calshot (Hants) *	1019.8	-2	WNW	6	fo	49	75	8	2500	Nb	9	-	9	*
Lympne (Folkestone)	1014.4	-2	W	6	PR	45	85	7	800	Nb	10	-	10	*
Aberdeen	1011.2	+6	NW	5	bc1	47	73	9	4000	Cu	4	-	4	*
Howden	1011.9	+2	WNW	7	co	47	65	8	2500	Cu	6	A St	8	*
Cranwell (Lincs)	1013.6	0	NW	5	co	47	85	6	2500	St Cu	9	-	9	*
Felixstowe	1014.1	-1	WNW	4	pro	45	80	7	2500	Nb	6	A St	10	*
Shoeburyness	1014.6	-2	WNW	2	co/r	47	75	7	1500	Cu	7	-	7	*
Benson	1015.5	-1	W	5	bc	50	65	8	-	Cu	6	-	-	*
S. Farnborough	1016.0	-3	W	5	cot	50	65	8	4000	St Cu	5	A St	8	*
London (Kew Obsy.)	1015.3	-3	WNW	4	cot	50	82	8	2500	St Cu	9	-	9	*
Croydon	1015.8	-2	WNW	5	co	48	65	8	1500	St Cu	9	-	9	*
	1H. G.M.T. of 21st													
Renfrew	1018.4	0	SW	2	cot	45	88	7	4000	St	10	-	10	*
Eskdalemuir	1019.2	0	WNW	3	co	41	75	6	4000	St Cu	10	-	10	*
Valencia (Cahirc'n)	1025.8	-2	WNW	4	SS	49	*	*	*	*	*	*	*	*
Baldonnel	1022.9	0	S	2	So So	47	97	4	2150	St	10	-	10	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth	1026.1	+1	NW	4	co	48	92	7	-	St	10	-	10	*
Calshot (Hants)	1022.6	+3	NW	3	bc/f	39	92	7	-	-	-	-	-	*
Lympne (Folkestone)	1019.7	+4	NW	4	bc	38	92	8	-	-	-	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden	1020.3	+3	-	0	bc-	29	97	5	4150	St	10	-	10	*
Cranwell (Lincs)	1021.0	+3	NE	1	bc	35	97	6	-	-	-	-	-	*
Felixstowe	1019.6	+4	NNW	4	bc	41	92	6	-	-	-	-	-	*
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1021.2	+3	*	0	*	46	*	*	*	*	*	*	*	*
Croydon	1021.7	+3	NW	3	bc-	39	92	8	-	-	-	-	-	*

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.	Total. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. of 20th													
Renfrew	1017.1	+4	WNW	3	bc+	47	65	8	-	-	-	A St	5	*
Eskdalemuir	1019.1	+5	NW	2	bc	43	75	7	4000	St Cu	8	-	5	*
Valencia (Cahirc'n)	1026.5	0	W	2	fo+	50	92	5	450	St	10	-	10	3
Baldonnel	1022.9	+2	WNW	4	co	46	85	6	800	St Cu	10	-	10	*
Manchester (Alex. Pk)	1018.1	+4	NW	4	bc-	47	75	6	1500	Cu	2	-	2	*
Ross on Wye	1019.4	+3	NNW	3	cov	47	75	9	4000	Cu Nb	7	-	7	*
Falmouth	1024.1	+1	NW	6	ff b	49	85	5	-	St Cu	4	A Cu	6	*
Calshot (Hants)	1015.1	+3	NW	5	co+	50	~~85~~ 65	8	4000	St Cu	6	-	6	0
Lympne (Folkestone)	1015.8	+3	NNW	5	PR	43	85	7	1500	Nb	9	-	9	*
Aberdeen	1015.1	+3	NW	2	bc	47	75	8	4000	Cu	3	-	3	0
Howden	1015.1	+4	NE	4	bc-	46	65	8	4000	Cu	3	-	3	*
Cranwell (Lincs)	1016.0	+4	NNW	1	bc-	44	92	8	4000	Cu	3	A Cu	4	*
Felixstowe	1015.6	+3	NNW	3	bc/fr	44	92	8	7200	St Cu	2	-	2	1
Shoeburyness	1015.5	+3	NNW	2	bc/r	44	75	7	1500	Cu	4	-	4	*
Benson	1017.6	+2	NNW	5	bc-	49	65	7	-	Cu	6	-	6	*
S. Farnborough	1017.6	+3	WNW	2	bc/r	46	75	8	2500	St Cu	2	-	2	*
London (Kew Obsy.)	1017.1	+4	WNW	3	bc-	47	75	6	2500	Cu	1	-	1	*
Croydon	1017.2	+3	NNW	4	bc-	46	75	7	2500	Cu	1	-	1	*
	7H. G.M.T. of 21st													
Renfrew	1016.7	-2	SW	3	So	47	97	5	450	Nb	9	A St	10	*
Eskdalemuir	1018.4	-1	SSW	3	ffo	41	97	2	800	St	10	-	10	*
Valencia (Cahirc'n)	1024.3	-1	SW	4	ffo	50	97	5	450	St	10	-	10	4
Baldonnel	1021.7	0	WSW	3	So So	49	92	5	450	St	10	-	10	*
Manchester (Alex. Pk)	1021.8	0	SSW	3	So So	41	97	4	1500	Nb	10	-	10	*
Ross on Wye	1023.2	+1	E	1	cor	38	92	7	2500	St	10	-	10	*
Falmouth	1025.5	-1	NW	3	So	49	97	7	-	Nb	10	-	10	*
Calshot (Hants)	1024.3	+2	NW	3	~~o~~ lf	38	92	7	-	-	-	a St	9	0
Lympne (Folkestone)	1023.2	+4	NNW	2	bc	37	92	8	-	-	-	-	-	*
Aberdeen	1012.5	-2	SSW	3	cot	43	85	5	4000	St Cu	5	a St	9	0
Howden	1026.4	0	-	0	pro	37	97	4	2500	?	6	a St	10	*
Cranwell (Lincs)	1022.5	+2	SW	1	co	37	97	6	4000	St Cu	3	a St	10	*
Felixstowe	1023.2	+5	NNW	2	bc	37	92	5	-	-	-	Cu	1	1
Shoeburyness	1023.4	+3	NW	1	ffb	37	85	5	-	-	-	Cu	2	*
Benson	1023.9	+1	NW	1	cot	33	97	6	-	-	-	a St	8	*
S. Farnborough	1024.2	+3	W	1	cot	32	97	5	-	-	-	a St	9	*
London (M.O. at 1H.)	1024.2	+2	SSW	1	fo-	37	92	5	-	-	-	a St	8	*
Croydon	1023.6	+2	W	1	co	36	97	5	-	-	-	a St	8	*

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. † Day.	Rainfall mm. † Night.	Temp. Max. Day °F.	Temp. Min. Night °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	1010.9	42	W	3	pro	1005.9	-7	44	0	SW	4	-	T-	3	-	S	46	36	b or bc	p	bor bc T or S	*
Stornoway	1015.6	40	NW	3	cot	1000.0	-2	50	+12	SW	5	-	T_0T_2	4	0.3	1	48	43	c	c	oo T or S	1.7
Castlebay (Barra Is)														*								
Malin Head	1019.4	47	W	3	cot	1015.6	-2	47	+1	SW	2	-	fo-	1	0.5	0.4	47	45	p	r or d	T or S form	6.8
Blacksod Point	1021.4	49	SW	2	fot	1018.8	-4	50	+3	SW	3	-	co	4	0.2	0.2	52	48	p	form	T or S	*
Roche's Point	1025.3	50	WNW	4	co	1025.0	0	50	+3	W	1	-	co	0	-	0.1	51	48	c	oo	oo	*
Birr Castle	1022.5	49	W	2	cot	1021.7	*	49	+4	SW	2	-	co/r	*			51	~~37~~ 47	c	c	T or S	0.2
Donaghadee	1019.6	47	NW	3	bc	1018.5	-1	49	+8	W	2	-	cot	0	1	-	51	40	p	b or bc	c	*
Liverpool (Bidston)	1018.9	45	W	4	bc-	1021.1	0	44	+1	SW	2	-	bc/f	1	-	0.6	49	42	o	b or bc	oo	2.1
Holyhead	1020.9	48	WNW	5	bc	1021.3	-1	48	+4	SW	4	-	S_0+	4	0.4	-	48	47	r or d	b or bc	c. oo	5.9
Pembroke (St. Ann's Head)	1023.3	47	WNW	5	co	1024.5	+1	48	+2	W	2	-	co	3	-	-	49	46	oo	oo	oo	0.0
Scilly (St. Mary's)	1025.7	50	WNW	6	co-	1025.8	-1	49	+1	WNW	4	-	co-	5	-	0.4	51	48	oo	b or bc	oo form	0.0
Jersey (St. Aubin)	1022.5	49	WNW	4	co/r	1025.6	+1	46	-1	NW	3	-	bc/r	3	0.3	0.2	51	44	r or d	r or d	p	0.1
Portland Bill	1020.0	48	WNW	5	bc	1025.6	+3	46	0	NNW	3	-	cot	4	-	-	50	44	oo	b or bc	bor bc. c	*
Dungeness	1014.9	47	NNW	6	bc-	1022.7	+3	36	-4	NNW	3	-	co	3	Tr	-	52	35	c	c	c. bor bc	*
Wick	1013.5	44	NW	2	bc-	~~1018.1~~ 1010.0	-2	46	+6	SSW	3	-	co	1	1	-	47	35	p	b or bc	oo	*
Nairn	1015.6	43	W	1	bc	1009.5	*	48	+10	W	2	-	bc	2	trace		49	37	bc g. c.	cp. bc.	bc cg	7.9
Leith	1016.2	46	NW	1	bc	1014.8	-1	47	+7	WSW	1	W	c	1			49	39	c bc. b	b	b. bc. c	*
Tynemouth	1015.9	46	N	3	bc-	1018.2	0	43	+2	W	1	-	fo-	0	-	-	50	38	b or bc	b. or bc	bor bc form	*
Spurn Head	1015.1	45	N	6	bc	1021.3	+3	41	0	W	3	-	cot	3	Tr	-	46	37	b or bc	p	bor bc	*
Yarmouth (Gorleston)	1013.4	44	N	4	co/lr	1021.8	+3	36	-4	NW	3	-	bc-	0	2	0.2	48	35	p	fbr	T or S. bor bc	1.7
Clacton-on-Sea	1014.7	44	WNW	3	bc/r	1022.8	+4	36	-5	WNW	2	-	fb-	0	1	-	49	39	r or d	r or d	form	6.3
Nottingham	1016.8	47	NW	4	bc-	1022.1	*	39	-4	WSW	2	-	ifo	3	-	-	51	35	c	b or bc	form	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. 4.

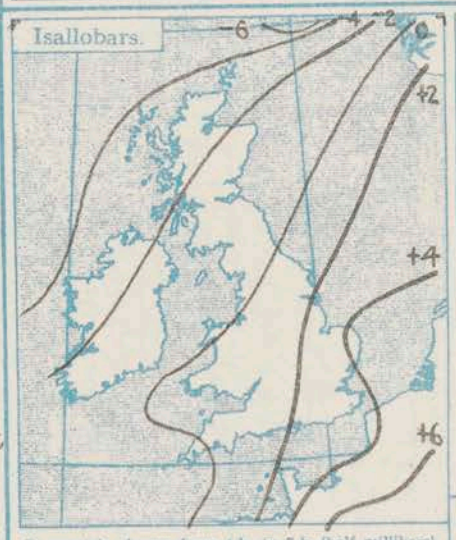
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 21.3.1921.

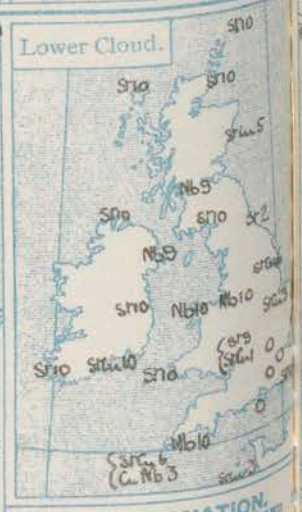
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair to fine.	Indiff.	Slight
2. E. England	Fair to fine.	"	Calm
3. E. Midlands	Fair.	"	-
4. W. Midlands	Fair to dull.	"	-
5. S.W. England	Dull, slight local drizzle.	Fair	Mod.
6. South Wales	Dull.	"	"
7. North Wales	Dull, some light drizzle.	Indiff.	"
8. N.W. England	Dull, some light drizzle.	Poor	Slight
9. N. Midlands	Dull, some light drizzle.	V. Poor	-
10. N.E. England	Overcast, slight local (showers.	Indiff.	Slight
11. E. Scotland	Fair to dull.	Poor	"
12. S.W. Scotland	Dull, slight drizzle, local (fog.	V. Poor	"
13. Isle of Man	Dull.	Fair	"
14. N.&N.W. Scotland	Fair to dull.	"	"
15. Hebrides	Dull, light rain.	Poor	Mod.
16. Orkneys and Shetlands	Dull, rainy.	"	"
17. N.W. Ireland	Overcast.	V. Poor	"
18. N.E. Ireland	Dull, local mist.	Fair	Slight
19. S.E. Ireland	Dull.	Good	Calm
20. S.W. Ireland	Dull, some mist.	Fair	Slight

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
3	20th	1000	47	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 ½ clouded. overcast sky. snow. sleet. rain falling. fog. mist. T thunder. hail. thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

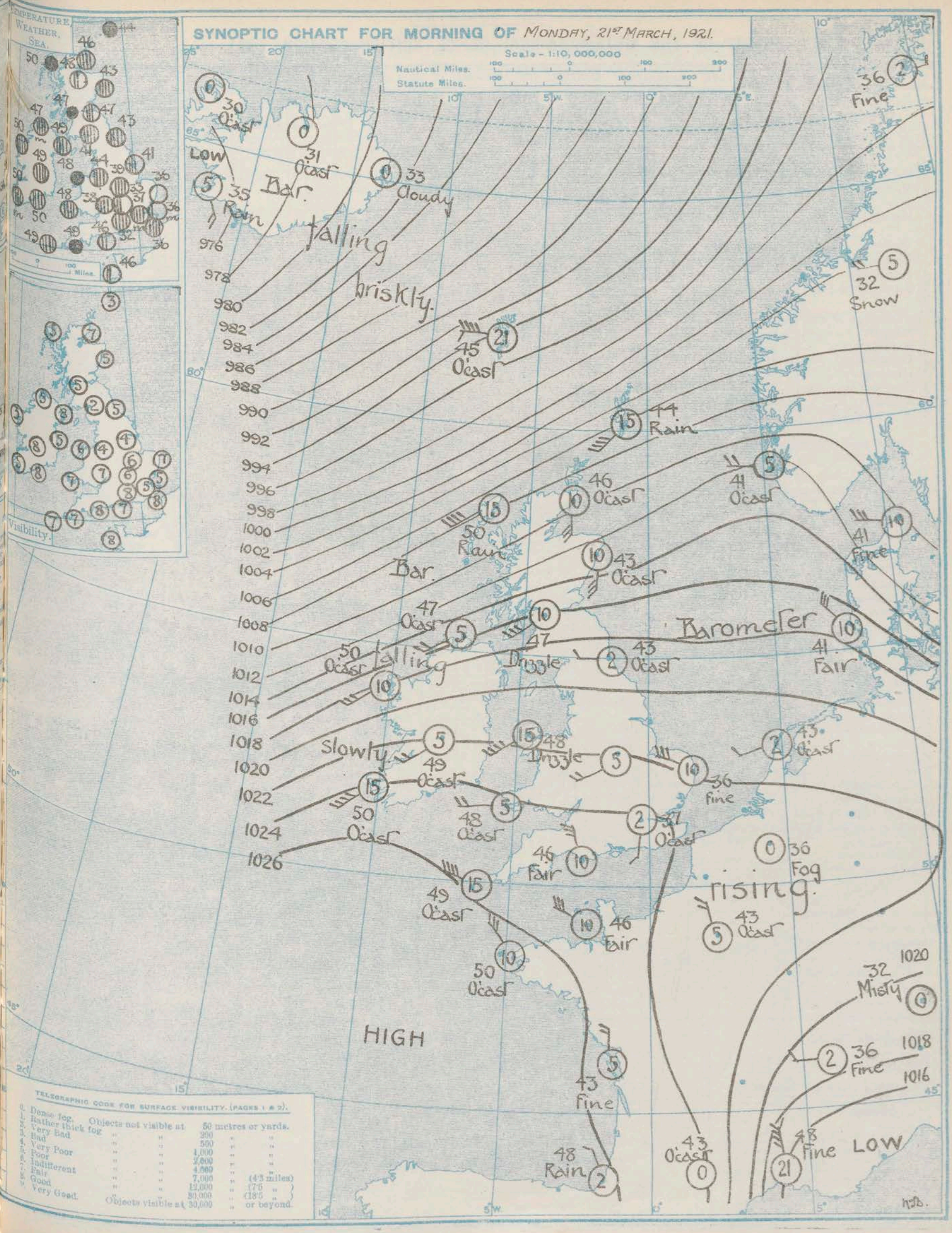
Another depression is spreading over Iceland and the barometer has begun to fall in the West and North of the British Isles. An unsettled type of weather, with winds between South-West and West is therefore likely to continue.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday, 21st March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind W. to S.W., light or moderate; fair, then much cloud, with some rain or showers, visibility fair or good; temperature rising.	Continuing mild and rather unsettled, but fairer in the South and East than elsewhere.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind between S.W. and W., freshening; cloudy or overcast, some rain, visibility mainly fair; temperature rising.	
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 S.W. or S., veering later, moderate to fresh or strong; much cloud, some rain, visibility indifferent to fair; mild.	

R.S.

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, 21st MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility.
LOW
Bar. falling briskly.
Bar. falling Slowly
Barometer rising.
HIGH
LOW
Rain
Cloudy
Snow
Fine
Fog
Misty
Drizzle
Fair
Rain
Drizzle
Fine
TELEGRAPHIC CODE FOR SURFACE VISIBILITY. (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4·3 miles)
7. Fair " " 12,000 " (7·5 ")
8. Good " " 30,000 " (18·5 ")
9. Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 80

MONDAY 21ST MARCH 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	or	cpc	48	37	-	1	3.1
	MONTROSE							
England, N.E.	Harrogate	bc	b bc	50	38	1	-	7.4
	Skegness	b o c	c bc	50	38	4	-	6.6
England, E.	Lowestoft ...	bc c p	cpt bc	48	39	5	1	7.1
	Felixstowe	1	bc	49	40	4	3	5.4
	Southend-on-Sea...	bcq or	bcp	50	39	4	1	6.0
England, S.E.	Tunbridge Wells	bcc	ohp bc	51	34	4	1	4.3
	Margate	b bc	or	49	43	4	2	4.4
	Ramsgate	*	*	49	40	6	1	6.2
	Folkestone	bc o r o	bc or o	55	41	11	3	5.1
	Hastings	bc o	c or p bc	51	40	6	2	4.6
	Eastbourne... ...	bc or	rh crc	52	40	8	2	4.3
	Brighton	bc o p	o c h p o	53	41	4	1	6.9
	Worthing	b b c c	bc b	53	40	5	-	8.0
	Portsmouth (S'thsea)	*	*	52	41	3	1	9.6
	Bournemouth ...	*	*	53	41	3	0.3	9.5
	)	*	*					

	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
England, N.W.	Blackpool	cp	ob	49	42	2	1	6.4
	Southport	c b c b	b	48	42	3	-	6.8
Midlands.	Leamington Spa...	cp	c	52	37	2	0.1	4.3
	Bath	b b c o p	b c b	52	41	0.3	1	6.7
Wales.	Rhyl	c b c	bc	48	41	1	-	6.0
	Colwyn Bay ...	*	*	49	41	-	-	3.9
	Llandudno	*	*	50	42	1	-	4.7
	Aberystwyth ...	r o c	c bc	48	40	3	2	4.0
England, S.W.	Weymouth	o c p c	c b	53	42	1	0.2	3.8
	Torquay	bcq.bc	bcq.bc	54	44	0.4	0.2	2.3
	Paignton							
	Penzance	c o	o c	52	44	3	-	1.7
	Bude	o	r	55	40	1	1	0.0
	Ilfracombe	o p	o p	48	46	1	2	0.0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 20TH	Weather. 13h-18h 20TH	Weather. 18h 20TH-1h 21ST	Weather. 1h-7h 21ST	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
								mm.	mm.	
Renfrew ...	c	c	c	oo	53	42	34	-	-	9.6
Eskdalemuir	c	b or bc	c	f or m	50	35	31	+	trace	8.0
Valencia (Cahirc'n) ...	oo	f or m	f or m	r or δ	50	49	49	-	0.5	0.0
Baldonnel	p	r or d	r or δ	r or δ	48	44	40	1	0.2	0.1
MANCHESTER (ALEX PARK)	p	b or bc	r or δ	r or δ	49	38	30	0.6	trace	*
Ross on Wye... ...	h or hr	b or bc	b or bc	b or bc	54	33	28	2	-	6.5
Falmouth	f or m	f or m	oo	oo	51	47	43	-	0.1	0.2
Calshot (Hants)... ...	p	b or bc	b or bc	f or m	52	36	?	0.5	-	8.6
Lympne (Folkestone) ...	oo	p	p	b or bc	47	35	31	2	0.1	5.8
Aberdeen	δ or bc	b or bc	b or bc	b or bc	48	38	32	-	0.1	8.3
Howden	h or hr	b or bc	b or bc	c	52	29	19	0.2	-	5.4
Cranwell (Lincs)	oo	b or bc	c	b or bc	?	34	30	-	-	3.4
Felixstowe	p	h or hr	b or bc	b or bc	49	36	31	2	-	5.3
Shoeburyness	r or d	p	p	p	50	35	32	1	0.2	6.4
Benson	c	c	b or bc	b or bc	52	28	22	0.2	-	*
S. Farnborough ...	c	h or hr	b or bc	b or bc	52	29	24	0.4	-	6.9
London (Kew Obsy.) ...	c	p	b or bc	b or bc	51	36	27	1	-	4.9
Croydon	r or d	p	b or bc	b or bc	51	35	27	1	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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)										
City (Bunhill Row)	*	*	*	*	*	*	*	5.3	*	*
Westminster (St. James's Park)	*	*	b	52	35	28	1	5.9	60	76
REGENTS PARK (BOTANIC GDNS)	*	*	*	*	*	*	*	4.0	*	*
Camden Sq. (British Rainfall)	?	?	*	52	34	27	1	*	81	?
Kensington Palace	bc. b	bc	*	52	35	28	1	*	70 (18h)	81
Hampstead Observatory ...	*	*	*	49	35	*	1	5.6	*	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.

21ST to 22ND MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth...	5.56	12.0	6.4
	5.54	12.0	6.6
Greenwich	6.3	12.4	6.11
	6.1	12.4	6.13
Wick ...	6.16	12.19	6.23
	6.13	12.19	6.25
Valencia ...	6.44	12.48	6.52
	6.42	12.48	6.54

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.

Showers fell very generally, but the quantity of rain measured was slight, Temperature rose to 50° or rather higher in most places but fell to below 32° at night in some parts of England. Bright sunshine records were generally high except in Ireland and the West and South-West of England.

* 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.21,670 TUESDAY, 22nd March 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.	Total 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.	Total Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 21st														**18H. G.M.T. OF 21st**													
Renfrew	1014.7	-2	SW	4	co	51	85	6	1500	St	9	A.St	10	*	1011.6	-3	SW	5	r₀	53	85	6	2500	St.Cu	10	-	10	*
Eskdalemuir ...	1016.7	-2	SW	0	[illegible]	47	97	6	1500	St	10	-	10	*	1014.3	-2	SW	5	co	48	92	6	1500	St	10	-	10	
Valencia (Cahirc'n)	1022.1	-3	SSW	4	co+	53	85	8	800	St.Cu	6	A.St	10	*	1019.1	-3	S	5	co	52	85	8	1500	St.Cu	10	-	10	4
Baldonnel ..	1020.0	-1	SW	3	co-	54	85	8	1500	St.Cu	10	-	10	*	1017.1	-3	WSW	3	co+	54	85	8	2500	St.Cu	9	-	9	*
Manchester (Alex. Pk)	1020.6	+2	WSW	2	co	51	85	5	2500	St.Cu	10	-	10	*	1019.0	0	WSW	2	co	53	85	5	-	St	1	A.St	5	*
Ross on Wye ...	1022.2	+2	WNW	3	co	55	75	8	4000	St.Cu	10	-	10	*	1021.3	-1	WNW	3	co	53	85	7	5750	St.Cu	9	-	9	*
Falmouth	1025.5	0	NW	4	co	55	85	8	-	St.Cu	9	-	9	*	1024.3	-1	WSW	3	bc-	50	85	8	-	Cu	1	A.St	2	*
Calshot (Hants) * ...	1024.4	-1	SW	3	co	49	55	7	4000	St.Cu	10	-	10	*	1023.4	0	SW	3	co+	49	97	6	800	St	10	-	10	0
Lympne (Folkestone)	1024.1	0	S	3	bc	48	75	7	2500	Cu	5	Ci.St	6	*	1023.7	-1	SSW	3	bc	45	85	7	-	-	-	A.Cu	5	*
Aberdeen	1010.2	-2	SW	2	co	59	65	8	4000	Cu	1	A.St	9	*	1007.9	-2	SW	3	co-	55	75	8	4000	Cu	1	A.St	8	0
Howden	1019.7	-2	WSW	3	co	55	75	6	2500	St	10	-	10	*	1018.4	-2	W	3	co+	51	85	6	4000	St.Cu	5	Ci.Cu	8	*
Cranwell (Lincs) ...	1021.4	-2	WSW	2	co+	54	85	6	4000	Cu	4	A.Cu	8	*	1020.3	0	SW	1	co	53	92	6	4000	St.Cu	6	A.Cu	8	*
Felixstowe ...	1024.1	+1	SSW	4	bc	49	85	7	4000	Cu	1	Ci	4	*	1022.9	-1	WSW	3	co+	48	92	7	2500	St.Cu	10	-	10	2
Shoeburyness ...	1023.7	-2	SE	1	fb+	50	65	5	2500	St	3	-	3	*	1021.4	-2	SW	2	co+	50	75	6	5700	Cu	6	-	6	*
Benson	1022.9	-2	SW	2	co	53	75	6	-	St.Cu	10	-	10	*	1022.3	-1	WSW	2	co	53	65	8	-	St.Cu	10	-	10	*
S. Farnborough	1023.7	-1	WNW	2	co	54	65	8	4,000	St.Cu	10	-	10	*	1023.0	-1	SSW	3	co	51	92	7	2500	St.Cu	10	-	10	*
London (Kew Obsy.)	1023.5	-2	SSW	2	co⊙	53	65	7	-	-	-	A.St	10	*	1022.4	-1	SSW	3	co	52	75	6	7250	St	4	A.Cu	8	*
Croydon	1024.2	-1	SW	2	co	52	65	8	5700	St.Cu	8	A.Cu	9	*	1022.9	0	SW	3	co+	50	75	8	2500	St.Cu	9	-	9	*
	1H. G.M.T. OF 22nd														**7H. G.M.T. OF 22nd**													
Renfrew ...	1008.1	-4	SSW	5	co	50	85	7	2500	St	10	-	10	*	1012.0	+5	WSW	2	co+	43	85	7	1500	St.Cu	7	Ci	8	*
Eskdalemuir ...	1011.7	-3	SW	6	r₀	45	97	6	1500	Nb	10	-	10	*	1012.3	+3	W	4	co/r	42	85	6	2500	St	10	-	10	*
Valencia (Cahirc'n)	1017.1	-5	WSW	4	co/r	50	*	*	*	*	*	*	-	*	1019.2	+4	NW	3	r₀	45	85	8	1500	St	10	-	10	1
Baldonnel ...	1014.9	-3	SW	6	co	51	85	8	1500	St.Cu	10	-	10	*	1016.6	+2	W	2	rr	44	92	4	800	St	10	-	10	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.9	-2	SSW	3	co	50	85	9	1500	St	10	-	10	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019.9	-1	WSW	3	co	49	92	7	2500	St	9	Ci.Cu	10	*
Falmouth ...	1023.5	-2	SW	2	dd₀	48	92	6	-	Nb	10	-	10	*	1022.3	0	SW	3	co/r	49	92	7	-	St	10	-	10	*
Calshot (Hants)...	1023.4	0	SW	2	co/f	48	97	8	1500	St	10	-	10	*	1022.8	0	SSW	3	bc-	48	85	8	4000	St.Cu	4	Ci.Cu	5	0
Lympne (Folkestone)	1023.5	-1	SSW	2	co	45	97	7	2500	St.Cu	10	-	10	*	1023.1	+1	SSW	3	fo+	46	97	4	450	St	10	-	10	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.6	+5	W	3	bc/r	43	85	8	4000	St.Cu	1	Ci	2	0
Howden ...	1016.5	-3	SSW	3	bc+	46	92	5	4000	Cu	3	A.St	5	*	1015.9	0	SSW	3	co	49	85	7	2500	St.Cu	10	-	10	*
Cranwell (Lincs)	1019.7	-1	SW	3	co+	48	97	7	2500	St.Cu	3	A.St	6	*	1018.9	0	SSW	2	co	47	97	8	1500	St	5	A.St	7	*
Felixstowe ..	1022.1	-1	SW	3	co	46	97	7	4000	St.Cu	10	-	10	*	1022.4	0	SW	3	co-	48	97	7	2500	St.Cu	8	-	8	2
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.1	0	SW	2	ff	47	92	6	-	-	-	Ci.St	2	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	0	SSW	3	co	44	97	6	-	St.Cu	9	-	9	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.1	0	SSW	2	bc+	45	92	8	2500	St	2	A.Cu	3	*
London (M.O. at 1H.)	1022.6	-1	*	*	*	48	*	*	*	*	*	*	*	*	1022.1	+2	S	2	bc+	47	92	6	-	-	-	Ci.St	1	*
Croydon ...	1023.1	-2	SW	4	co	47	97	6	1500	St	10	-	10	*	1022.8	0	SSW	4	bc/r	47	92	8	-	-	-	Ci.St	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.	Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall mm. † Day.	Rainfall Night.	Temp. Max. Day. °F.	Temp. Min. Night. °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 ...	1000.8	49	WSW	4	r₀ r₀	1001.2	+2	41	-3	W	4	-	bc/r	2	4	8	49	37	r or d	r or d	r or d.p	*
Stornoway ...	1001.7	47	WSW	5	c	1007.0	+5	40	-10	W	4	-	bc+	1	1	6	53	39	r or d	r or d	r or d.bbc	0.0
Castlebay (Barra Is)						1010.1	+3	44		WNW	4	-	bc/r	4		3	50	42			r or d	0.0
Malin Head ...	1009.5	50	SW	4	co	1012.5	+5	44	-3	WNW	3	-	bc+	2	-	4	51	43	oo	oo	r or d.p	0.0
Blacksod Point	1010.0	52	SW	5	ifo	1014.4	+5	45	-5	SW	2	-	co-	0	[illegible]	4	52	43	r or d	p	r or d	*
Roche's Point...	1022.4	52	SW	4	co	1018.6	+2	46	-4	WNW	3	-	r.	0	-	2	55	46	c	c	r or d	*
Birr Castle ...	1017.7	53	SW	2	co+	1017.6	*	44	-5	SW	1	-	co/r	*	-	2	53	44	c	c	r or d	0.3
Donaghadee ...	1014.7	54	W	3	co+	1014.6	+5	44	-5	W	1	-	co/r	0	-	1	56	44	c	c	r w d	*
Liverpool (Bidston)	1018.7	52	SW	3	bc-	1015.6	+1	50	+6	SW	5	-	cov	4	-	-	55	48	c	b or bc	c	2.4
Holyhead ...	1018.3	49	SSW	5	bc+	1015.5	-1	49	+1	SW	5	-	r₀+	5	Tr	0.1	53	47	c	b or bc	form. r or d	3.6
Pembroke (St. Ann's Head)	1022.2	48	WSW	3	co	1019.5	-1	48	0	SW	3	-	co/r	3	-	1	51	47	oo	oo	oo. r or d	0.6
Scilly (St. Mary's)	1025.1	50	W	2	ifo	1022.1	-1	49	0	SW	3	-	co-	4	-	-	55	48	oo	f or m	form. c	1.9
Jersey (St. Aubin)	1025.0	51	W	3	co	1024.7	0	48	+2	W	3	-	co	0	-	1	53	48	c	oo	p	0.8
Portland Bill ...	1024.2	48	NW	3	co	1022.9	-2	48	+2	WSW	2	-	co	3	-	-	49	44	c	c	c.e	*
Dungeness ...	1023.1	48	SW	3	bc+	1022.6	[illegible]	[illegible]	+12	SW	4	-	co+	1	-	?	51	36	b or bc	b or bc	c. p	*
Wick	1003.6	48	SSW	4	co/r	1005.5	+3	37	-9	SW	2	-	bc-	0	1	4	54	37	c	r or d	r or d.c	*
Nairn	1004.4	52	WSW	5	c	1008.6	*	38	-10	W	1	-	bc	1	-	3	60	37	bcpe	cq	cqprg	2.9
Leith	1009.9	55	SW	1	c	1011.3	+3	44	-3	NW	1	NW	cm	1	-	1	57	44	coeg	coge.	cpem	*
Tynemouth ...	1016.0	55	W	2	co+	1011.5	-1	50	+7	W	3	-	co+	1	-	-	57	48	c	oo	c.oo	*
Spurn Head ...	1018.1	53	SW	3	co+	1015.2	-2	49	+8	SW	5	-	bc+	1	-	-	56	40	c	c	c.b or bc	*
Yarmouth (Gorleston)	1021.8	50	SSW	4	co-	1020.0	0	48	+12	WSW	3	-	bc	0	-	-	55	46	b or bc	b or bc	oo. oo	8.8
Clacton-on-Sea..						1022.1	+2	48	+12	WSW	3	-	co	0	?	-	50	46	?	?	c	8.0
Nottingham ...	1019.4	55	WSW	2	co-	1018.0	*	48	+9	SW	[illegible]	-	co	*	-	-	55	46	f or m	c	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.

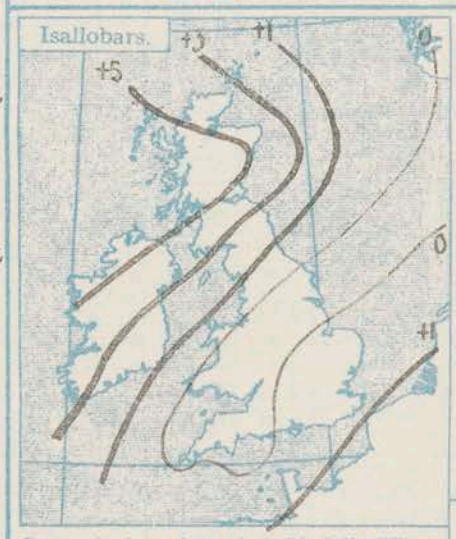
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 22.3.1921.

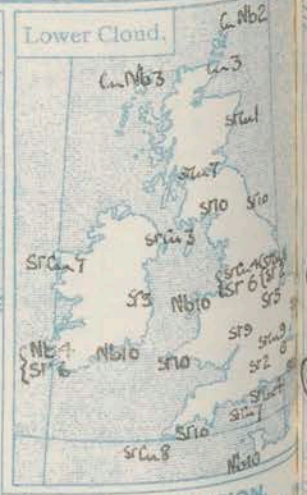
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Fair, local fog on coast.	Fair	Slight
2. E. England	Fair to cloudy.	"	"
3. E. Midlands	Fair to cloudy.	Indiff.	-
4. W. Midlands	Dull.	"	-
5. S.W. England	Dull, local showers.	Good	Mod.
6. South Wales	Dull.	Fair	"
7. North Wales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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
3.	20th	10.00	47	48
5.	21st	08.06.	47	49
3.	"	?	48	51
6.	"	13.45	49	51
7.	22nd	0220	47	50
2.	"	"	48	48
4.	"	04.30	46	47



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



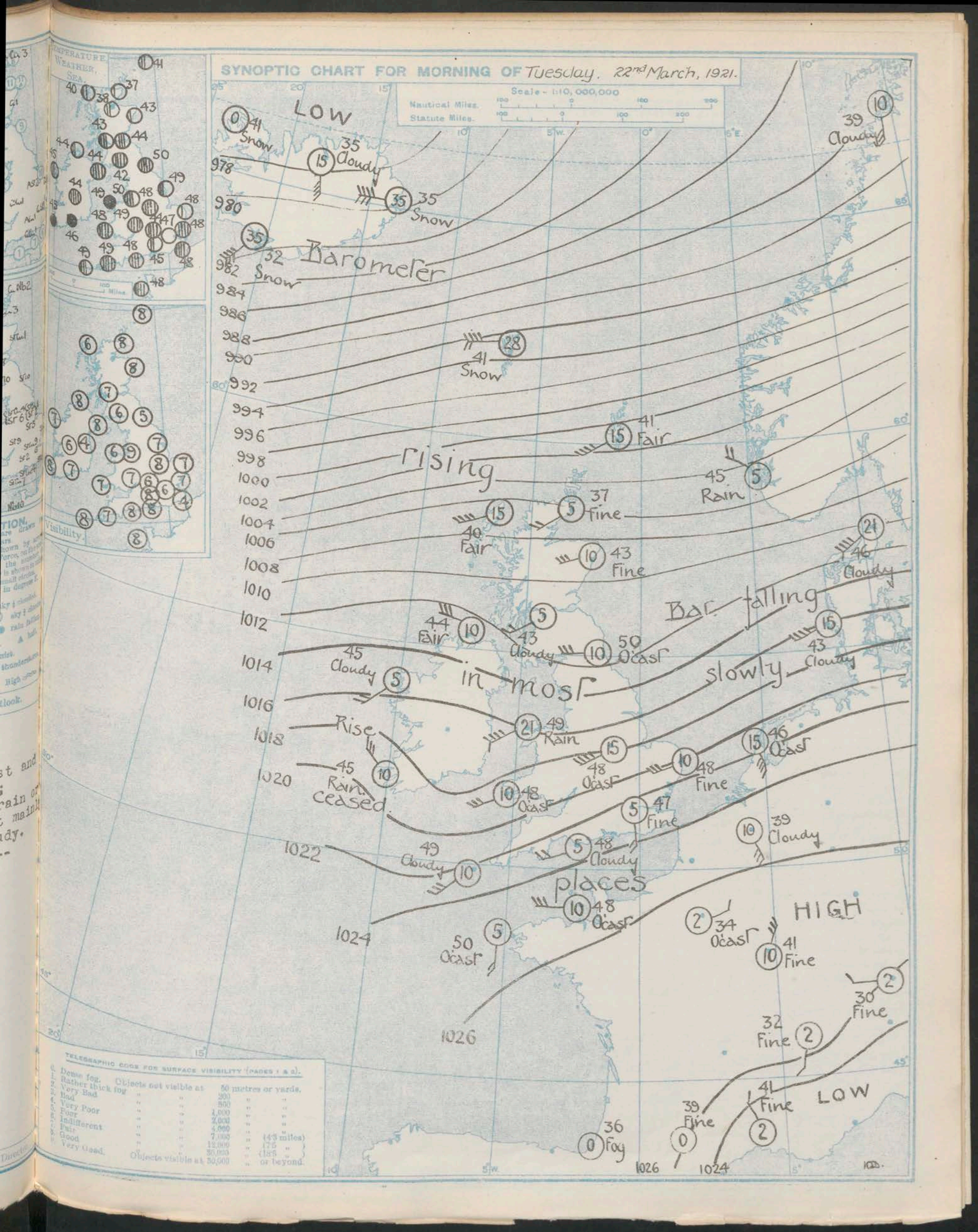
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.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

GENERAL INFERENCE from observations received up to 9h.

The main wind current will continue Westerly, but secondary depressions passing over the British Isles will cause local variations in the direction. Showers are probable in nearly all parts of the Kingdom, but considerable intervals of fair weather will be experienced, with a moderately high temperature for the time of year.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday, 22nd March, 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 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 mainly Westerly (South-West locally at times), light or moderate; some showers in most places, but fairer intervals, visibility generally fair to good; no important change of temperature.	Wind West and South-West; occasional rain or showers, but mainly fair to cloudy. ---------

R.S.


SYNOPTIC CHART FOR MORNING OF Tuesday. 22nd March, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
TEMPERATURE, WEATHER, SEA.
Visibility.
LOW
Barometer
rising
Bar. falling
slowly
in most
places
Rise
Rain ceased
HIGH
LOW
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 12,000 " (7·5 ")
Good " " 30,000 " (18·5 ")
Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 81.

Tuesday 22nd March 1921

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	o	c bc	57	38	0·1	-	0·1
	Montrose	bc	bc	56	37	-	-	2·7
England, N.E.	Harrogate	o c bc	bc c o	53	35	0·1	-	1·7
	Skegness	o bc o	o c o	54	33	-	-	2·1
England, E.	Lowestoft ...	bc	bc c o	51	35	0·3	-	8·8
	Felixstowe	bm	m	50	34	-	-	8·2
	Southend-on-Sea...	bc	bc c	55	34	0·2	-	7·2
England, S.E.	Tunbridge Wells	b	b. bc	56	34	-	-	5·7
	Margate	b	b	53	40	-	-	9·5
	Ramsgate	*	*	51	40	1	-	9·7
	Folkestone	b	b	51	38	-	-	10·0
	Hastings	b	b. bc	51	38	Trace	-	10·2
	Eastbourne	b	bc o	51	39	-	-	8·7
	Brighton	b	bc o	52	38	-	-	7·0
	Worthing	b	bc o	54	38	-	-	6·9
	Portsmouth (S'thsea)	*	*	53	36	-	-	3·3
	Bournemouth ...	*	*	53	38	-	-	0·1
	)	*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 20-21st	Rainfall. Day. 9h-17h. 21st	Sunshine. Sunrise to Sunset 21st
England, N.W.	Blackpool	dr	c	54	42	1	0·1	2·3
	Southport	o c bc	bc c ob	53	43	0·3	-	3·1
Midlands.	Leamington Spa...	o	o bc	58	33	-	-	3·0
	Bath	m. o. c	o. c bc	57	36	-	-	2·0
Wales.	Rhyl	c bc c	c bc	57	40	-	-	1·0
	Colwyn Bay ...	*	*	59	42	-	-	3·1
	Llandudno	c	o bc	55	43	-	-	3·3
	Aberystwyth ...	o c b	o	50	43	-	-	1·5
England, S.W.	Weymouth	c	c	55	39	0·2	-	0·1
	Torquay	z. bcr	bc. b. bc	59	48	-	Trace	1·9
	Paignton	od	o c bc	59	45	-	Trace	0·8
	Penzance	o c	c	57	48	2	-	0·6
	Bude	o	o	53	46	0·3	-	0·2
	Ilfracombe	o p c	o c bc	54	46	0·4	0·2	1·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS	Weather. 7h-18h 21st	Weather. 18h-18h 21st	Weather. 18h-7h 22nd	Weather. 7h-7h 22nd	Max. Temp Day °F.	Min. Temp Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	r or d	o o	0.0	r or d	55	43	39	-	3	1.8
Eskdalemuir	r or d	o o	r or d	r or d	~~49~~ 49	42	40	0.5	10	0.0
Valencia (Cahirc'n) ...	c	o o	p		54	45	44	-	1	0.9
Baldonnel	r or d	c	0 0	r or d	57	43	41	Trace	3	1.9
Manchester (Alex Park)	o o	o o	c		55	47	41	1	trace	.3
Ross on Wye... ...	o o	c	c		59	47	41	-	-	0.8
Falmouth	f or m	b or bc	r or d	r or d	56	47	42	-	2	0.3
Calshot (Hants)... ...	o o	o o	f or m	f or m	51	45	?	-	-	1.5
Lympne (Folkestone) ...	b or bc	b or bc	f or m	f or m	50	37	41	-	-	10.0
Aberdeen	o o	o o	r or d		60	42	38	-	4	0.1
Howden	o o	c	b or bc	0.0	~~56~~ 56	46	36	-	-	0.9
Cranwell (Lincs)	o o	c	b or bc	c	56	45	41	-	-	2.2
Felixstowe	b or bc	c	0.0	c	52	36	43	-	-	7.5
Shoeburyness	b or bc	f or m	b or bc		55	45	42	-	-	7.9
Benson	o o	o o	0.0		55	43	36	-	-	*
S. Farnborough ...	c	o o	c		54	43	38	-	-	3.5
London (Kew Obsy.) ...	c	c	b or bc		56	47	42	-	-	2.6
Croydon	c	o o	0.0	p	55	46	41	-	trace	.8

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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 c o	o bc b	56	44	39	-	3.5	62	76
City (Bunhill Row)	*	*	*	*	*	*	*	0.8	*	*
Westminster (St. James's Park)	*	*	o c.	55	46	42		1.8	60	77
Regents Park (Botanical Gdns)	*	*	*	*	*	*	*	1.5	*	*
Camden Sq. (British Rainfall)	b. bc	c	*	56	45	40	-	*	57	76
Kensington Palace	o. bc	bc. o	*	56	44	42	-	*	72 (18h)	80
Hampstead Observatory ...	*	*	*	54	42	*	-	3.7	*	82

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 March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5.54	12.0	6.6
	5.52	12.0	6.8
Greenwich	6.1	12.7	6.13
	5.59	12.7	6.15
Wick ...	6.13	12.19	6.25
	6.10	12.19	6.27
Valencia ...	6.42	12.48	6.54
	6.40	12.48	6.56

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

Exposure from 21st 19 h. 15 m. to 22nd 5 h. 0 m.

Stars.	Duration of Exposure. h. m.	Duration of Record. h. m.	%
Polaris	9. 45	1. 40	17
δ Ursae Minoris	9. 45	0. 45	8

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 60° at Nairn and Aberdeen, 59° at Colwyn Bay, Ross-on-Wye, and on the South-West Coast of England, and to 55° or above in many other localities. Much bright sunshine was recorded in the South-East of England, but elsewhere there was little. Rain or showers fell at most places in the North and at some in the West, but the measurement was generally slight or moderate.

* 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. B21,671 WEDNESDAY, 23RD MARCH, 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.	Total. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. of 22ND													
Renfrew	1015.9	+3	WSW	4	bc-	49	65	8	2500	Cu	3	Ci.St	6	*
Eskdalemuir ...	1016.4	+3	WNW	3	co+	47	65	7	4000	Cu	5	A.Cu	9	*
Valencia (Cahirc'n)	1020.5	+1	WNW	2	co-	49	65	8	4000	St.Cu	3	A.Cu	7	*
Baldonnel ..	1019.7	+1	WNW	1	co-	49	65	8	1000	~~Nb~~ St.Cu	~~7~~ 6	A.St	~~10~~ 9	*
Manchester (Alex. Pk)	1018.5	+3	NW	3	Co	50	85	6	1500	St.Cu	8	A.St	10	*
Ross on Wye ...	1020.6	+1	W	4	co+	52	75	8	2500	St.Cu	10	-	10	*
Falmouth	1022.5	0	SW	6	co	55	75	8	-	St.Cu	6	A.St	7	*
Calshot (Hants) *...	1023.4	0	SW	4	Co	51	92	8	800	St	10	-	10	*
Lympne (Folkestone)	1023.4	0	SW	5	Co	50	92	8	450	St	9	-	9	*
Aberdeen	1013.6	+2	WNW	3	bc+	51	55	9	4000	Cu	3	-	3	*
Howden	1017.3	+1	WSW	5	PY.	54	85	5	1500	Nb	10	-	10	*
Cranwell (Lincs) ...	1019.4	0	SW	3	Co	55	85	8	1500	St.Cu	10	-	10	*
Felixstowe ...	1022.4	0	SW	4	co+	54	78	7	2500	St.Cu	8	-	8	*
Shoeburyness ...	1022.3	0	SW	4	co+	55	65	7	1500	St.Cu	7	A.Cu	8	*
Benson	1021.3	-1	SW	4	Co	54	75	7	-	Cu	10	-	10	*
S. Farnborough	1022.1	0	SW	4	Co	56	75	7	2500	St.Cu	8	-	8	*
London (Kew Obsy.)	1022.3	0	SW	3	co/r	54	75	8	2500	St.Cu	9	A.St	10	*
Croydon	1022.8	0	SW	4	co/r	55	75	8	1500	St.Cu	10	-	10	*
	1H. G.M.T. of 23RD													
Renfrew ...	1016.7	-3	S	2	Co	43	85	6	4000	St.Cu	10	-	10	*
Eskdalemuir ...	1019.5	-2	-	0	Bc	31	95	7	-	-	-	A.Cu	5	*
Valencia (Cahirc'n)	1013.5	0	SSW	6	co/r	50	*	*	*	*	*	*	*	-
Baldonnel ...	1017.4	-1	S	4	bc+	46	85	8	5750	St.Cu	10	-	10	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	1023.5	0	SW	4	Co	48	95	8	-	St.Cu	10	-	10	*
Calshot (Hants)...	1024.6	0	SW	4	Co	48	92	8	1500	St.Cu	10	-	10	*
Lympne (Folkestone C)	1025.0	+1	SW	2	co⊕	45	94	8	-		-	Ci.St	9	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	1021.1	0	-	0	Co	41	94	5	4,000	St	6	A.St	10	*
Cranwell (Lincs)	1021.6	0	SSW	1	Co	48	94	5	1500	St	10	-	10	*
Felixstowe ..	1024.5	0	SW	3	Co	47	92	7	4,000	Cu	10	-	10	*
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1025.5	0	*	*	*		*	*	*	*	*	*	*	*
Croydon ...	1024.9	0	SSW	3	cov	47	92	9	1500	St.Cu	7	A.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.	Total. Amt. 0-10.	Sea 0-9.
	18H. G.M.T. of 22ND													
Renfrew	1010.8	-6	SSW	5	co/r	47	85	6	1500	St.Cu	10	-	10	*
Eskdalemuir ...	1014.3	-3	SSE	4	dd	39	94	2	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1014.3	0	SSW	6	d.	50	92	5	1500	St	10	-	10	?
Baldonnel ...	1014.9	-1	SW	5	co-	48	85	8	1500	St	5	Ast	10	*
Manchester (Alex Pk)	1019.5	0	SW	4	Co	49	85	6	2500	St.Cu	10	-	10	*
Ross on Wye...	1022.1	0	SW	3	co/r	47	92	8	2500	Nb	10	-	10	*
Falmouth ...	1023.4	0	SW	3	Co	49	85	8	-	St.Cu	10	-	10	*
Calshot (Hants)...	1025.5	+1	SSW	4	Co	48	92	8	1500	St.Cu	10	-	10	0
Lympne (Folkestone C)	1025.9	+2	SW	1	fo-	44	94	1	<150	St	10	-	10	*
Aberdeen ...	1011.0	-4	S	4	co+	42	85	8	1500	St.Cu	10	-	10	0
Howden ...	1019.6	-1	S	4	co-	49	85	5	2500	St	7	A.St	9	*
Cranwell (Lincs)	1021.9	0	SSW	2	Co	48	94	7	1500	St	10	-	10	*
Felixstowe ..	1025.0	+2	SW	3	bc-	45	92	7	4,000	St.Cu	1	Ci	2	2
Shoeburyness...	1025.0	+2	SW	4	bc	45	85	7	3,500	Cu	2	-	2	*
Benson	1025.7	+1	SSW	2	bc+	45	92	8	-	St.Cu	2	-	2	*
S. Farnborough	1024.8	+2	SSW	3	co+	45	85	8	1500	St.Cu	9	-	9	*
London (M.O. at 1H.)	1024.9	+3	S	2	bc+	46	85	8	4,000	St.Cu	2	Ci.St	3	*
Croydon ...	1025.3	+1	SSW	4	co+	44	94	8	1,500	St.Cu	8	Ci	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.	‡ 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. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F	Temp. Min. Night. °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	1009.4	43	W	4	p	1007.2	-6	42	+1	S	3		co	2	2	2	47	37	p	h or hr	h or hr	*
Stornoway ...	1012.3	45	W	5	bc	999.7	-11	44	+4	S	7		co	6	1	3	49	42	b or bc	b or bc	c. p	0.4
Castlebay (Barra's)	1014.6	45	W	4	co/r	1001.3	-9	48	+4	S	5		rr	7		2	47	45	c	b or bc	0.0	8.4
Malin Head ...	1016.1	46	W	2	co+	1005.3	-3	48	+1	SSW	4		co	4	-	-	49	43	b or bc	b or bc	c. oo	7.0
Blacksod Point	1017.0	47	SW	3	bc	1002.8	-4	50	+2	SW	7		co+	4	-	0.1	51	41	b or bc	b or bc	b or bc. c	*
Roche's Point...	1021.0	48	SW	2	co	1018.3	0	49	+3	SW	4		d.	6	0.1	1	51	47	oo	oo	r or d	*
Birr Castle ...	1019.0	50	W	1	co-	1018.8	*	49	+5	S	4		co+	*	-	-	51	44	c	c	c	2.3
Donaghadee ...	1018.4	47	WNW	1	bc	1018.9	-3	48	+4	SW	4		co+	4	-	-	52	42	c	b or bc	oo	*
Liverpool (Bidston)	1020.4	45	NW	1	Co	1018.8	-1	48	+2	SW	3		cov	0	-	-	52	42	r or d	oo	b or bc	0.0
Holyhead ...	1020.6	47	NNW	1	Co	1019.6	-1	47	-2	SSW	5		dd	4	1	0.4	49	42	oo	c	b or bc. form	? ~~0.6~~
Pembroke (St. Ann's Head)	1021.1	47	SW	1	fo-	1021.0	-1	48	0	SW	4		co	6	?	-	49	48	f or m	f or m	form. oo	0.0
Scilly (St. Mary's)	1022.1	49	SW	4	co/r	1022.9	0	50	+1	WSW	3		bc-	4	1	-	54	48	b or bc	r or d	oo. c	1.0
Jersey (St. Aubin)	1025.12	52	SW	3	co	1026.4	0	45	-3	SW	3		co	0	-	-	55	48	c	c	c	2.5
Portland Bill ...	1023.4	49	SW	4	co	1024.1	*	49	+1	WSW	5		co	4	-	-	50	45	oo	b or bc	c. oo	*
Dungeness ...	1023.6	49	SW	4	co+	1025.5	+1	47	-1	S	2		bc+	1	-	-	52	46	c	b or bc	c. b or bc	*
Wick	1012.5	44	SW	2	bc	1004.6	-9	43	+6	S	6		co	4	-	-	50	39	c	c	oo	*
Nairn	1014.5	46	W	2	bc	1004.3	*	45	+7	SW	1		cq	1	-	-	51	37	bcq	b. bc	bc. c	5.6
Leith	1017.4	46	W	1	bc	1010.6	-3	46	+2	SSW	2		o	2		-	52	39	c. bc	b	bc. bq. c	*
Tynemouth ...	1018.1	51	W	1	bc-	1016.6	-2	39	-11	SW	3		fo+	0	0.5	-	52	35	p	p	c. b or bc	*
Spurn Head ...	1020.2	46	E	1	r	1020.5	0	48	-1	SW	3		co/f	2	0.2	0.2	55	?	b or bc	r or d	f or. m	*
Yarmouth (Gorleston)	1021.0	56	WSW	3	co	1023.2	+1	47	-1	WSW	3		co	0	-	-	59	47	b or bc	c	c	4.7
Clacton-on-Sea..	1022.1	51	SSW	3	bc	1024.5	+2	46	-2	SSW	3		bc+	0	-	-	56	45	b or bc	b or bc	b or bc	4.2
Nottingham ...	1020.3	49	SW	1	r	1021.4	*	50	+2	SW	3		co/r	*	1	1	58	47	c	f or m	r or d	1.0

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

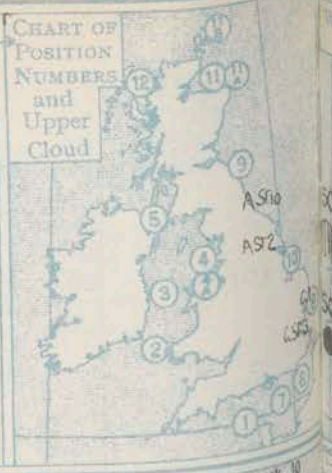
M.O. FORM 2370.

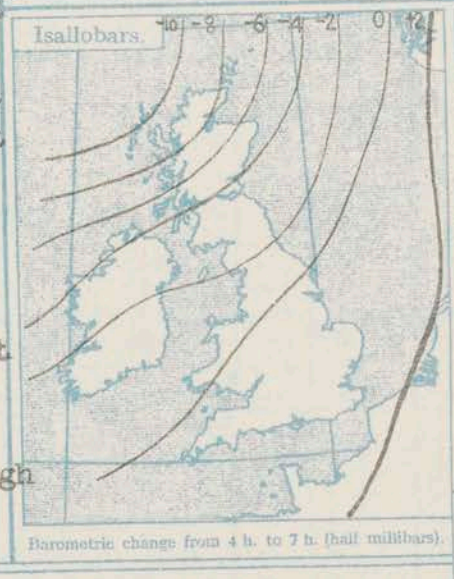
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 23.3.1921.

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

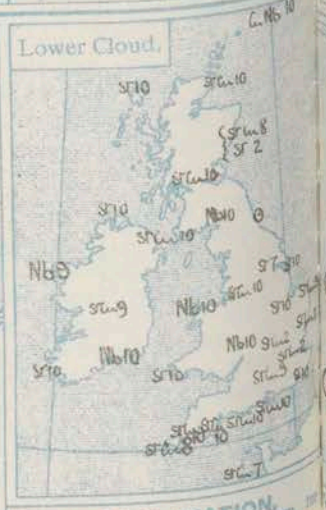
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number	Date	Time G.M.T.	Sea °F	Air °F
5	22nd	0811	46	46
12	"	0430	46	44
1	"	1250	49	54
2	23rd	0230	49	49
7	"	0220	47	50
4A	"	0455	45	46





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



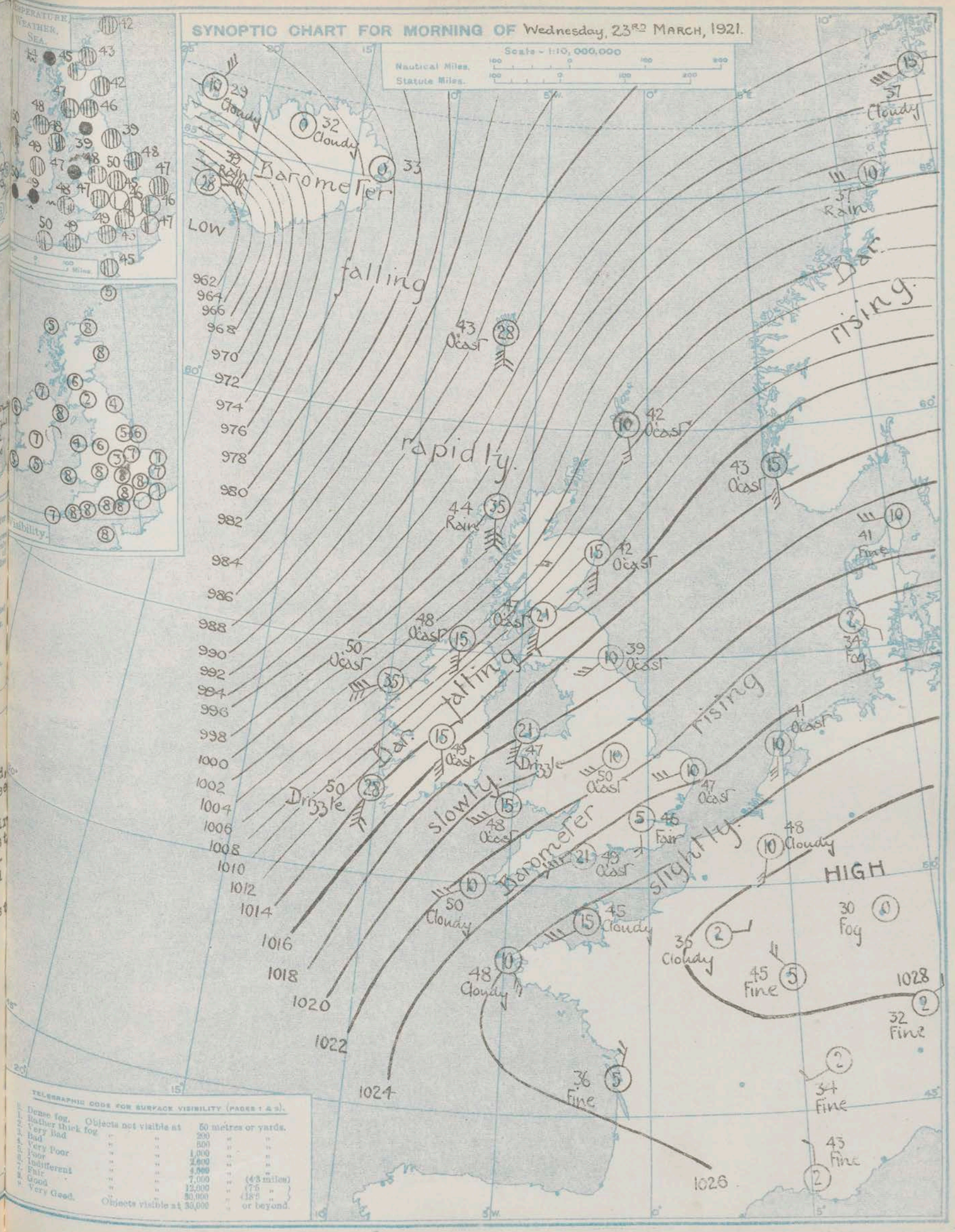
EXPLANATION.

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. T thunder. ℞ thunderstorm.
SEA DISTURBANCE.—Rough. High.

GENERAL INFERENCE from observations received up to 9h.

A deep depression over Iceland and secondary disturbances which are likely to appear over the North-West and West of these Islands will cause rain or showers in several places, with strong winds or gales from South and South-West, but in the Southern and South-Eastern districts mainly fair weather is still anticipated, although local showers may be experienced.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday, 23rd March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S. and S.W., light or moderate; mainly fair or cloudy, but overcast at times and some local showers later, visibility fair or good; mild.	Generally mild, with winds between South-West and West; mainly fair in the South-East and East of England; occasional showers in the Northern and Western districts. ------
5. S.W. England 6. South Wales	Wind S. and S.W., fresh or strong; cloudy or overcast, some drizzle or showers, visibility fair; mild.	
7. North Wales 8. N.W. England	Wind S. and S.W., fresh or strong, a gale locally; much cloud, some rain, squally, visibility fair; mild.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind S. and S.W., fresh or strong; much cloud, some rain or drizzle, visibility fair; mild.	
12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind S. and S.W., strong or a gale; much cloud, occasional rain or drizzle, visibility mainly fair; milder.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 5 & 6.	



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

0	Dense fog. Objects not visible at	50	metres or yards.	
1	Rather thick fog " "	200	"	"
2	Very Bad " "	500	"	"
3	Bad " "	1,000	"	"
4	Very Poor " "	2,000	"	"
5	Poor " "	4,000	"	"
6	Indifferent " "	7,000	"	(4·3 miles)
7	Fair " "	12,000	"	(7·6 ")
8	Good " "	30,000	"	(18·5 ")
9	Very Good. " "	Objects visible at 30,000	"	or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 82.

WEDNESDAY 23RD MARCH.

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	bc b	b bc	52	40	3	-	7·6
	Montrose	b	bc	53	43	1	-	8·8
England, N.E.	Harrogate	c o r	o	50	47	0·3	4	0·2
	Skegness	o bc o	o dm	56	44	-	-	3·0
England, E.	Lowestoft							
	Felixstowe	bm	cm	56	45	-	-	5·3
	Southend-on-Sea	b bc	c bc	55	44	-	-	3·9
England, S.E.	Tunbridge Wells	b bc	c bc c	56	45	-	-	4·1
	Margate	b.bcc	c	57	43	-	-	2·8
	Ramsgate	*	*	54	44	-	-	3·2
	Folkestone	oc o	oc o	52	44	-	-	0·8
	Hastings	oc	o	50	46	*	-	0·1
	Eastbourne	c o	oc o	53	48	-	-	1·8
	Brighton	bc o	bc o	51	45	0·1	-	1·3
	Worthing	bc c	o	53	47	-	-	3·2
	Portsmouth (S'thsea)	*	*	56	45	-	-	3·7
	Bournemouth	*	*	54	45	-	-	3·0
		*	*					
England, N.W.	Blackpool	or	c	52	45	0·3	0·3	0·6
	Southport	r o	o c o c	49	45	2	1	0·0
Midlands.	Leamington Spa	c b	c b	57	45	-	-	2·0
	Bath	o c bc	o d	57	45	-	1	1·0
Wales.	Rhyl	op	op	51	45	0·4	3	0·0
	Colwyn Bay	*	*	50	45	1	3	0·0
	Llandudno	r to	o o	52	44	3	4	0·0
	Aberystwyth	r o	r o	49	47	1	3	0·0
England, S.W.	Weymouth	dc	b	54	45	1	0·2	2·7
	Torquay	d o m c	c bc b	55	45	1	Trace	1·9
	Penzance	c bc	c o d	55	48	2	0·1	1·4
	Bude	o	o	50	48	1	-	0·3
	Ilfracombe	bc c o	o m	54	49	2	-	1·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 22nd	Weather. 18h-18h 22nd	Weather. 18h 22nd-18h 23rd	Weather. 18h-7h 23rd	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew	c	b or bc	o o	r or d	51	41	33	-	0·1	7·4
Eskdalemuir	c	b or bc	c	r or d	49	29	27	0·1	1	4·6
Valencia (Cahirc'n)	c	b or bc	h or hr	r or d	52	45	38	-	1	6·0
Baldonnel	oo	c	b or bc	oo	53	40	33	1	-	2·9
Manchester (Alex. Pk)	p	r or d	o o	o o	53	41	34	0·3	-	*
Ross on Wye	c	oo	p	p	56	46	45	-	0·4	2·8
Falmouth	c	oo	r u d	o o	56	46	44	-	-	5·7
Calshot (Hants)	r or d	c	o o	o o	52	46	?	Trace	-	3·4
Lympne (Folkestone)	F	oo	o o	F	52	43	41	-	Trace	1·9
Aberdeen	b or bc	b or bc	c	c	53	39	31	-	-	8·6
Howden	oo	r or d	o o	o o	56	40	34	0·2	Trace	0·1
Cranwell (Lincs)	oo	r or d	r or d	c	56	44	45	0·3	2	5·0
Felixstowe	b or bc	c	o o	b or bc	56	44	40	-	-	4·9
Shoeburyness	f or hm	c	b or bc	b or bc	58	40	?	-	-	3·6
Benson	oo	oo	b or bc	b or bc	57	44	34	-	-	*
S. Farnborough	r or d	c	b or bc	b or bc	58	41	33	Trace	-	3·1
London (Kew Obsy.)	c	b or bc	b or bc	b or bc	~~54~~ 58	46	35	-	-	3·4
Croydon	r or d	c	o o	b or bc	57	43	36	-		*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; co = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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 % 18 h. G.M.T. Yesterday.	Humidity % 9 h. G.M.T. To-day.
	24 Hours ended 9h G.M.T. 23rd									
Greenwich (Royal Observatory)	*	o. bc* b	b (f). bco	59	42	32	-	4·5	69	70
City (Bunhill Row)	*	*	*	*	*	*	*	2·3	*	*
Westminster (St. James's Park)	*	*	c.o	59	46	40	-	4·2	65	74
Regent's Pk. / Botanical Gdns	*	*	*	*	*	*	*	3·0	*	*
Camden Sq. (British Rainfall)	c	c. bc	*	59	45	38	-	*	69	71
Kensington Palace	o	o. bc.	*	59	44	40	-	*	78 (18h)	76
Hampstead Observatory	*	*	*	55	44	*	-	2·5	*	?

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 AND 24TH MARCH, 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·52	12·0	6·1
	5·50	12·0	6·10
Greenwich	5·59	12·7	6·15
	5·57	12·7	6·17
Wick	6·10	12·19	6·29
	6·7	12·19	6·30
Valencia	6·40	12·48	6·56
	6·38	12·48	6·57

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

Exposure from 22nd ... 19h. ... 15m.
to 23rd ... 5 h. ... 0 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	9	45	5	38	58
δ Ursae Minoris	9	45	5	3	52

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 58° or 59° at some places in the South-East and South, but failed to touch 50° at some stations in the West and North. The minimum readings of the night were several degrees above 32° except at Eskdalemuir, where frost occurred. Bright sunshine records were higher in Scotland than elsewhere. In Wales and the North and North-West of England the day was nearly or quite sunless. Slight showers fell at several places - mostly 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. 8. 21,692 THURSDAY...24TH...MARCH.....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.	Total. Amt. 0-10.	Sea 0-9.
13H. G.M.T. of 23RD														
Renfrew	1009.7	0	SSW	6	r r	49	85	6	500	Nb	10	-	10	*
Eskdalemuir ...	1012.7	-1	S	8	r r	45	97	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1017.0	+3	S	5	co-	52	85	8	1500	St.Cu	10	-	10	*
Baldonnel ...	1014.8	0	SSW	6	co	52	85	8	1500	St	10	-	10	*
Manchester (Alex.Pk)	1020.2	0	SW	4	co	52	65	9	1500	St.Cu	10	-	10	*
Ross on Wye ...	1022.9	-1	W	5	co	53	75	9	4000	St.Cu	9	-	9	*
Falmouth	1025.3	+1	SW	5	co	54	75	8	-	St.Cu	10	-	10	*
Calshot (Hants) * ...	1027.0	+2	SW	4	co	53	85	9	4000	St.Cu	8	-	8	*
Lympne (Folkestone)	1026.6	+1	SW	5	bcv	54	75	9	2500	St.Cu	2	A.Cu	3	*
Aberdeen	1004.8	-2	SW	6	co	52	75	8	1500	Cu	7	A.St	10	*
Howden	1020.1	+2	SW	6	co	51	75	7	2500	St	6	A.St	10	*
Cranwell (Lincs) ...	1022.5	+1	SW	4	co	51	65	8	2500	St.Cu	10	-	10	*
Felixstowe ...	1025.4	0	SW	4	bc-	55	55	8	4000	Cu	5	-	5	*
Shoeburyness ...	1025.4	0	WSW	6	co+	55	65	8	4000	Cu	7	-	7	*
Benson	1024.8	0	WSW	4	co	53	65	8	-	St.Cu	10	-	10	*
S. Farnborough	1025.7	0	SW	4	co	54	75	8	1500	St.Cu	10	-	10	*
London (Kew Obsy.)	1025.4	0	SW	3	co	55	65	9	4000	St.Cu	8	A.Cu	10	*
Croydon	1026.3	+2	SW	5	co	54	65	8	2500	St.Cu	10	-	10	*
1H. G.M.T. of 24TH														
Renfrew ...	1012.1	+1	SW	5	co	51	85	7	2500	St	10	-	10	*
Eskdalemuir ...	1015.1	0	S	7	ffo	45	97	4	1500	St	10	-	10	*
Valencia (Cahirc'n)	1018.9	0	SSW	6	co|r	51	*	*	*	*	*	*	*	*
Baldonnel ...	1017.3	+1	SSW	7	co	50	85	8	1500	St.Cu	4	A.Cu	9	*
Manchester (Alex.Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	1027.3	+1	SW	1	bc	44	97	8	-	-	-	A.Cu	2	*
Calshot (Hants)...	1028.2	0	-	0	co-	46	97	8	*	-	-	Ci	9	*
Lympne (Folkestone)	1028.1	0	SSW	2	co|f	42	97	8	-	-	-	Ci	8	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	1021.3	-1	SW	3	co-	48	85	5	2500	St	4	A.St	7	*
Cranwell (Lincs)	1023.1	0	SW	2	co	49	85	7	4000	St.Cu	6	A.St	10	*
Felixstowe ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1024.9	+1	*	*	*	46	*	*	*	*	*	*	*	*
Croydon ...	1027.5	0	SW	4	coy	44	85	9	-	-	-	Ci.St	7	*

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.	Total. Amt. 0-10.	Sea 0-9.
13H. G.M.T. of 23RD														
Renfrew	1010.2	+1	SW	7	co|r	50	85	6	800	Nb	7	A.Cu	9	*
Eskdalemuir ...	1012.9	0	SSW	7	r-	47	92	3	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1017.8	+2	S	5	r	51	85	7	800	St.Cu	10	-	10	4
Baldonnel ...	1016.4	+2	SSW	5	r	51	85	6	1500	St	8	A.Cu	9	*
Manchester (Alex.Pk)	1020.7	+1	SW	5	co	51	75	8	1500	St.Cu	9	A.St	10	*
Ross on Wye ...	1023.6	+1	W	5	co	51	75	9	2500	St.Cu	9	A.St	10	*
Falmouth	1025.9	+1	SW	3	co	51	85	8	-	St.Cu	10	-	10	*
Calshot (Hants) * ...	1026.9	+1	SW	3	co	49	92	9	4000	St.Cu	3	Ci	6	?
Lympne (Folkestone)	1026.7	0	SSW	3	bc	48	92	9	2500	St.Cu	1	Ci	5	*
Aberdeen	1007.0	+2	SW	4	co-	52	85	7	1500	St.Cu	7	Ci	8	3
Howden	1019.6	+1	SW	4	co	52	85	6	2500	St.Cu	9	A.St	10	*
Cranwell (Lincs) ...	1023.0	0	WSW	3	co-	51	75	8	2500	St	7	A.St	10	*
Felixstowe ...	1025.3	+1	SW	3	co	52	75	7	4000	St.Cu	10	-	10	3
Shoeburyness ...	1025.5	0	W	1	co+	51	65	7	4000	St.Cu	2	Ci.Cu	6	*
Benson	1024.5	+1	SW	3	co	53	75	8	*	St.Cu	10	-	10	*
S. Farnborough	1025.8	0	SSW	3	co	51	75	8	2500	St.Cu	8	A.Cu	9	*
London (Kew Obsy.)	1025.1	0	SW	3	co	53	65	8	4000	St.Cu	2	Ci	9	*
Croydon	1025.9	0	SW	4	co	52	65	8	4000	St.Cu	3	Ci	10	*
7H. G.M.T. of 24TH														
Renfrew ...	1012.8	+2	SW	5	co	51	85	7	1500	St	10	-	10	*
Eskdalemuir ...	1017.2	+2	S	6	ffo	45	97	3	1500	St	10	-	10	*
Valencia (Cahirc'n)	1020.7	+2	S	5	co	50	85	5	1500	St	10	-	10	5
Baldonnel ...	1018.5	0	SW	7	co-	49	85	8	1500	Cu	3	Ci	8	*
Manchester (Alex.Pk)	1023.1	+2	SSW	3	co	49	85	8	2500	St.Cu	10	-	10	*
Ross on Wye...	1026.0	+2	W	2	co	48	85	7	2500	St.Cu	6	Ci	8	*
Falmouth ...	1027.6	+1	SW	1	bc	47	92	7	-	St.Cu	5	-	5	*
Calshot (Hants)...	1028.9	+1	SSW	3	co	46	97	8	2500	St.Cu	1	Ci	6	*
Lympne (Folkestone)	1029.0	+1	SW	1	co	44	97	9	-	-	-	Ci	7	*
Aberdeen ...	1008.8	+2	SW	5	co+	52	92	8	1500	St	10	-	10	0
Howden ...	1021.7	+2	SW	4	co-	50	85	6	2500	St	6	A.St	9	*
Cranwell (Lincs)	1024.4	+1	ESE	4	co	46	85	8	1500	St.Cu	3	Ci.St	8	*
Felixstowe ..	1027.7	+2	SW	4	co	44	92	7	-	-	-	Ci.Cu	7	1
Shoeburyness...	1028.2	+2	W	1	co-	45	85	6	2500	St	9	-	9	*
Benson	1027.9	+3	SW	3	co	45	92	6	-	St.Cu	10	-	10	*
S. Farnborough	1028.6	+3	SW	4	co	46	92	8	1500	St.Cu	9	-	9	*
London (M.O. at 1H.)	1028.3	+3	SSW	3	co	46	85	8	4000	St.Cu	10	-	10	*
Croydon ...	1028.7	+2	SSW	2	co	44	97	7	800	St	6	Ci.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.
	18H. G.M.T. of 23RD					**7H. G.M.T. of 24TH**								
Lerwick ...	998.3	48	WSW	5	co|r	1000.2	-6	48	+6	S	4	-	RR	4
Stornoway ...	1002.5	47	SW	6	co|r	999.3	+1	53	+9	SW	8	-	r r	6
Castlebay (Barrals)	1005.7	50	W	5	bc|r	1005.2	+1	52	?	SW	6	-	co|r	7
Malin Head ...	1009.2	49	SSW	4	ifo	1009.2	+3	50	+2	SW	4	-	co	4
Blacksod Point	1010.0	52	SW	8	r	1011.0	+1	52	+2	SW	8	-	co	6
Roche's Point...	1021.0	50	SW	5	co	1023.5	+2	50	+1	SW	5	-	co	6
Birr Castle ...	1016.6	52	SW	2	d d	1019.3	*	51	+2	SW	2	-	co|r	*
Donaghadee ...	1014.0	52	WSW	3	co	1016.6	+1	51	+3	WSW	2	-	co	3
Liverpool (Bidston)	1019.5	50	SW	4	co	1022.1	+2	50	+2	SW	4	-	bcv	
Holyhead ...	1019.2	49	SSW	6	r r	1022.1	+2	49	+2	SSW	5	-	co	4
Pembroke (St. Ann's Head)	1023.2	49	SW	4	co	1025.3	+1	48	0	SW	4	-	co	3
Scilly (St. Mary's)	1025.4	51	SSW	4	co-	1026.0	0	48	+2	SW	3	-	co-	3
Jersey (St. Aubin)	1027.3	53	SW	2	bc	1029.4	0	43	-2	-	0	-	bc	0
Portland Bill ...	1025.5	49	WSW	5	co	1028.3	+1	48	-1	SW	3	-	bc	3
Dungeness ...	1026.2	50	SW	2	bc-	1028.0	0	46	-1	WNW	2	-	bc+	0
Wick	1002.2	50	W	6	co	1000.1	-4	53	+10	SW	5	-	co	4
Nairn	1003.1	53	W	4	c	1001.8	*	54	+9	SW	4	-	cq	3
Leith	1009.8	52	SW	5	o	1011.4	0	53	+7	SW	5	-	o	3
Tynemouth ...	1014.7	51	WSW	5	co	1016.8	+2	51	+12	WSW	4	-	co	0
Spurn Head ...	1015.3	51	WSW	4	co-	1021.4	0	48	0	WSW	5	-	bc	1
Yarmouth (Gorleston)	1023.0	54	WSW	4	co+	1024.7	0	43	-7	WSW	4	-	co-	1
Clacton-on-Sea..	1025.0	52	SW	3	co+	1027.7	+3	45	-1	SW	3	-	co	0
Nottingham ...	1021.7	52	SW	4	co	1024.2	*	48	-2	SW	3	-	co-	4

STATIONS.	Rainfall mm. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F	Temp. Min. Night. °F	Weather. Morning	Weather. Afternoon	Weather. Night.	Sunshine Hours.
	24 HOURS ENDED 7H. 24TH							**23RD**
Lerwick ...	3	5	49	40	r or d	r or d	r or d	*
Stornoway ...	6	7	52	45	r or d	p	r or d	1.4
Castlebay (Barrals)	-	2	50	48	r or d	r p	r or d	-
Malin Head ...	1	-	50	48	p	f or m	oo	-
Blacksod Point	3	0.5	52	49	r or d	r or d	oo	*
Roche's Point...	0.3	-	51	49	r or d	oo	oo	*
Birr Castle ...	0.1	0.4	54	48	c	r or d	r or d	-
Donaghadee ...	0.3	-	53	50	oo	p	oo	*
Liverpool (Bidston)	-	-	52	49	oo	c	b or bc	0.1
Holyhead ...	0.3	1	51	47	r or d	r or d	oo	0.1
Pembroke (St. Ann's Head)	-	-	50	46	oo	oo	oo	-
Scilly (St. Mary's)	-	-	54	47	c	oo	b or bc	2.2
Jersey (St. Aubin)	-	-	56	37	b or bc	b or bc	b or bc	8.5
Portland Bill ...	-	-	51	46	c	c	b or fb	*
Dungeness ...	-	-	54	46	b or bc	b or bc	b or bc	*
Wick	0.2	-	51	44	r or d	oo	c	*
Nairn	-	hail	55	43	cqg	cbcq c	qpc	4.5
Leith			54	46	oqpo	oqpqo	oqqo	*
Tynemouth ...	-	-	51	49	c	c	c	*
Spurn Head ...	-	-	54	41	oo	oo	c	*
Yarmouth (Gorleston)	-	-	57	42	b or bc	b or bc	c	8.3
Clacton-on-Sea..	-		57	45	b or bc	b or bc	c	5.2
Nottingham ...	-		53	47	c	c	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.

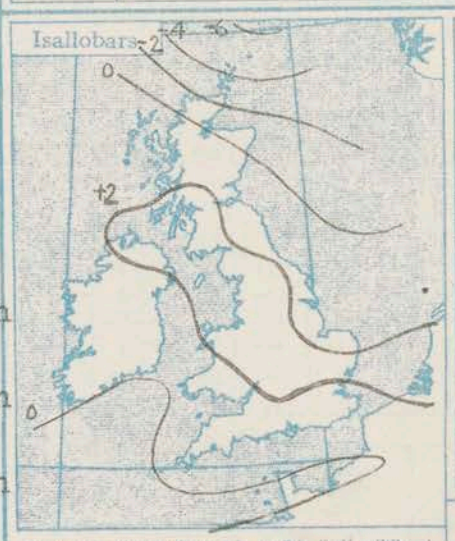
M.O. FORM 2370.

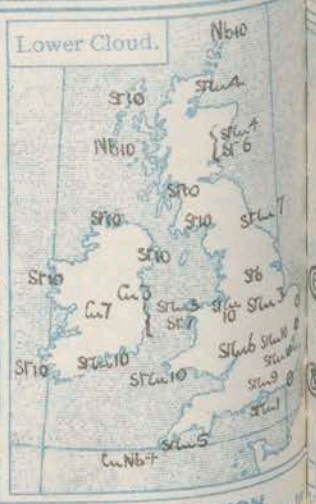
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 24.3.1921.

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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	23rd	0819	46	48
3	"	1000	48	49
6	"	1335	49	53
8	"	1430	46	51
2	24	0220	48	49
7	"	0223	49	48
49	"	0440	46	48



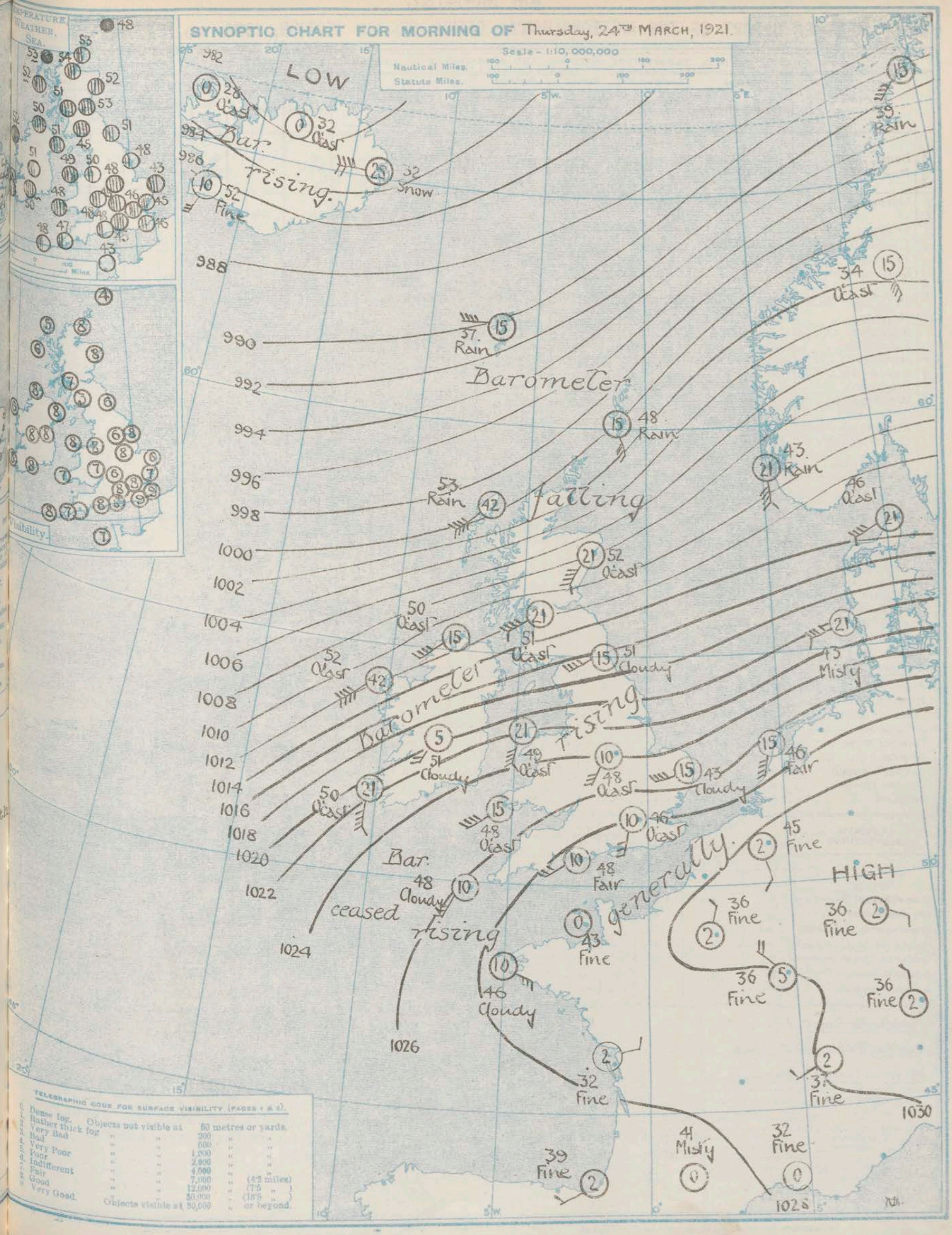


EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.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

GENERAL INFERENCE from observations received up to 9h.

Secondary depressions are likely to cause occasional rain or passing showers in our Western and Northern districts, but in the South and East the weather will probably be dry, although at times overcast. Temperature will undergo little change and the main wind current continue South-Westerly.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 24th March, 1921.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S.W., light or moderate; mainly fair but overcast at times, visibility fair to good; little change of temperature.	Continuing rather mild, with generally fair weather in the South and East and occasional rain or showers elsewhere.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland	Wind mainly S.W., moderate or fresh; cloudy or dull, some showers in many places, fairer intervals; visibility fair; little change of temperature.	
12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind between S. and S.W., moderate or fresh, stronger at times; much cloud generally, some rain or showers, visibility fair; little change of temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Same as 5 - 11.	


SYNOPTIC CHART FOR MORNING OF Thursday, 24th MARCH, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar. rising.
Barometer falling
Barometer rising
Bar. ceased rising generally.
HIGH
TEMPERATURE.
WEATHER.
SEA.
Visibility.
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Rather thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 12,000 " (7·5 ")
Good " " 30,000 " (18·6 ")
Very Good. " Objects visible at 50,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 83

THURSDAY 24TH MARCH 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 22nd-23rd	Rainfall. Day. 9h-18h. 23rd	Sunshine. Sunrise to Sunset. 23rd
Scotland.	Banff	oc	cbcc	60	36	-	-	1.9
	Montrose	o	o	52	35	0.2	-	0.4
England, N.E.	Harrogate	oc	cbc	50	37	0.1	-	0.0
	Skegness	o bc	bcc	55	46	3	-	3.0
England, E.	Lowestoft ...	c bc	bccbc	60	46	-	-	6.6
	Felixstowe	b	o	57	44	-	-	6.4
	Southend-on-Sea...	bcc	bcc	56	43	-	-	4.5
England, S.E.	Tunbridge Wells	c bc	bcb	57	43	-	-	5.3
	Margate	bcc	cbcb	59	44	-	-	7.2
	Ramsgate	*	*	56	46	-	-	7.0
	Folkestone	bcb	b	53	45	-	-	8.1
	Hastings	b	b	53	45	Trace	-	9.6
	Eastbourne... ...	b	b bc	56	47	-	-	10.1
	Brighton	b	b	54	47	-	-	9.4
	Worthing	b	b	55	46	-	-	9.2
	Portsmouth (S'thsea)	*	*	58	45	-	-	5.2
	Bournemouth ...	*	*	58	46	-	-	3.7
		*	*					
England, N.W.	Blackpool	c	o	50	36	-	-	0.4
	Southport	oco	o	52	38	-	-	0.2
Midlands.	Leamington Spa...	o	cb	56	46	-	-	0.0
	Bath	o	oc	56	47	1	-	0.4
Wales.	Rhyl	bcf	c	52	41	-	-	0.0
	Colwyn Bay ...	*	*	52	40	-	-	1.9
	Llandudno	oc	co	52	40	0.1	-	0.3
	Aberystwyth ...	r oc	co	50	44	1	-	0.0
England, S.W.	Weymouth	c	bcc	54	47	-	-	2.1
	Torquay	bccr o	cbc.bc	55	47	-	Trace	2.0
	Penzance	cbc	bcc	55	48	1	-	3.3
	Bude	c	c	55	45	1	-	2.1
	Ilfracombe	ocbc	bcco	56	47	2	-	2.3

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 23rd	Weather. 18h-18h 23rd	Weather. 18h 23rd-1h 24th	Weather. 1h-7h 24th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	r or d	r or d	oo	oo	51	49	47	5	trace	-
Eskdalemuir	r or d	r or d	r or d	f or m	47	44	43	16	2	-
Valencia (Cahirc'n)	oo	r or d	r or d	oo	52	50	49	1	0.1	-
Baldonnel	oo	r or d	c	c	53	48	44	Trace	*	0.2
Manchester (Alex. Pk)	oo	oo	oo	oo	52	49	45	-	-	*
Ross on Wye... ...	c	oo	c	c	56	47	43	-	-	0.7
Falmouth	oo	oo	b or bc	c	55	43	38	-	-	1.5
Calshot (Hants)... ...	oo	b or bc	oo	c	56	43	?	?	-	5.5
Lympne (Folkestone) ...	c	b or bc	F	c	55	41	39	-	0.1	8.4
Aberdeen	oo	c	c	c	54	41	?	-	-	0.5
Howden	oo	oo	oo	oo	54	41	43	-	-	0.5
Cranwell (Lincs)	oo	oo	c	c	54	43	39	-	-	2.6
Felixstowe	c	oo	c	c	56	44	41	-	-	6.1
Shoeburyness	b or bc	b or bc	c	c	58	41	37	-	-	4.5
Benson	oo	oo	oo	oo	56	40	31	-	-	*
S. Farnborough ...	oo	oo	oo	oo	55	41	38	-	-	1.1
London (Kew Obsy.) ...	c	oo	oo	c	56	43	36	-	-	2.5
Croydon	oo	oo	oo	oo	55	41	35	-	-	-

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	3·4- 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

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. 24th									
Greenwich (Royal Observatory)	o	o bc	bc	53	41	33	-	2.6	63	74
City (Bunhill Row)	*	*	*	*	*	*	*	0.6	*	*
Westminster (St. James's Park)	*	*	bc.cbb	56	44	38	*	1.6	59	74
Regents Park (Botanic Gens)	*	*	*	*	*	*	*	0.8	*	*
Camden Sq. (British Rainfall)	c	c	*	56	43	37	*	*	60	81
Kensington Palace	o	o bc	*	56	43	37	*	*	(18h)	84
Hampstead Observatory ...	*	*	*	54	42	*	-	2.0	*	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.

24th to 25th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5.50 / 5.48	12.0 / 11.59	6.10 / 6.11
Greenwich	5.57 / 5.54	12.7 / 12.6	6.18 / 6.18
Wick ...	6.7 / 6.4	12.19 / 12.18	6.30 / 6.33
Valencia ...	6.38 / 6.35	12.48 / 12.47	6.58 / 6.59

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

Exposure from 19 h. 15 m. to 5 h. 00 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	9	45	9	0	92
δ Ursae Minoris	9	45	7	46	80

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to about 55° in several parts of the Kingdom and remained rather high during the night. Some rain or showers fell in the West and North, but the Southern and Eastern districts were fine; at some stations the sunshine record exceeded 8 hours, & at Eastbourne reached 10.1 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. 316Y3 FRIDAY 25th MARCH 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.	Total. 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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 24th														19H. G.M.T. OF 24th													
Renfrew ...	1016.3	+3	SSW	6	r.r.	50	85	6	800	Nb	10	-	10	*	1019.1	+4	WSW	3	d.	49	85	7	1500	St	10	-	10	*
Eskdalemuir ...	1019.2	+2	SSW	6	co	45	97	5	1500	St	10	-	10	*	1020.9	+3	SSW	4	dd	45	97	2	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1023.3	+2	S	5	r.r.	51	92	6	450	St	10	-	10	*	1023.7	+1	SSW	4	d.d.	51	92	7	450	St	10	-	10	5
Baldonnel ...	1020.7	-2	SW	6	co	48	85	8	4000	Cu	2	A.St	7	*	1022.6	+2	SW	4	co+	55	75	8	5750	St.Cu	8	A.Cu	9	*
Didsbury ...	1024.2	0	SW	3	bc	61	55	9	2500	St.Cu	2	-	2	*	1025.2	+1	WSW	3	bc	56	65	8	-	-	-	A.St	1	*
Ross on Wye ...	1026.4	0	W	4	bc	59	65	8	-	-	-	Ci	1	*	1026.6	0	W	3	bc	54	75	8	-	-	-	Ci	5	*
Falmouth ...	1028.8	+1	SSE	3	bc	58	65	8	-	-	-	Ci	1	*	1028.5	0	SW	3	bc	52	75	8	-	-	-	-	-	*
Calshot (Hants) ...	1028.9	0	SSW	4	bc-	55	65	9	-	-	-	-	-	*	1029.2	0	SW	3	bc	51	85	8	-	-	-	Ci	2	0
Lympne (Folkestone)	1029.1	-1	SW	4	bc-	58	75	9	-	-	-	Ci.St	1	*	1029.0	+1	SW	3	bc-	49	85	8	-	-	-	Ci	1	*
Aberdeen ...	1010.5	+3	SW	5	co	56	85	8	1500	St	7	Ci.St	8	*	1016.1	+6	W	3	bc-	54	65	8	4000	St.Cu	1	-	1	0
Howden ...	1022.5	0	WSW	6	co+	63	55	7	-	-	-	Ci.St	8	*	1023.9	+2	WSW	4	bc-	57	65	6	5750	St	1	Ci.St	2	*
Cranwell (Lincs) ...	1025.0	0	SW	4	co-	60	65	6	-	-	-	Ci	7	*	1025.2	+2	SW	2	bc-	58	55	8	-	-	-	Ci	2	*
Felixstowe ...	1028.1	-1	SW	2	co	56	65	5	-	-	-	Ci	7	*	1027.4	0	SW	3	bc	55	75	8	-	-	-	Ci	1	*
Shoeburyness ...	1028.1	-1	W	2	bc-	62	75	7	-	-	-	Ci.Cu	1	*	1027.4	-1	WSW	1	bc	52	75	7	-	-	-	Ci	1	*
Benson ...	1027.9	-2	SW	3	bc-	62	55	8	-	-	-	Ci	1	*	1026.9	0	WSW	2	bc-	58	45	8	-	-	-	Ci	1	*
S. Farnborough	1028.4	+1	SSW	4	bc-	63	55	8	-	-	-	A.Cu	1	*	1028.0	0	SSW	3	bc	56	55	8	-	-	-	Ci	2	*
London (Kew Obsy.)	1028.2	-2	SW	3	bc-	60	55	8	-	-	-	-	-	*	1027.6	0	SSW	3	bc	54	55	8	-	-	-	Ci	2	*
Croydon ...	1028.4	0	SW	3	bc-	63	55	8	-	-	-	Ci	1	*	1028.3	+1	SW	3	bc	55	65	8	-	-	-	Ci	3	*
	1H. G.M.T. OF 25th														7H. G.M.T. OF 25th													
Renfrew ...	1023.1	+2	WSW	2	co	46	85	6	1500	St.Cu	9	-	-	*	1024.9	+2	-	0	co	42	85	5	4000	St	7	A.St	10	*
Eskdalemuir ...	1023.8	+2	WSW	2	rr	44	85	5	2500	Nb	10	-	10	*	1025.1	+1	NW	1	co/r	41	85	6	4000	St	10	-	10	*
Valencia (Cahire'n)	1025.6	0	-	0	r.	46	*	*	*	*	*	*	*	*	1026.5	+2	NE	2	r.r.	46	92	8	2500	St	4	A.St	10	1
Baldonnel ...	1024.6	+1	SSW	4	d.+	50	92	5	450	St	10	-	10	*	1026.4	+3	N	1	r.r.	44	92	4	450	St	10	-	10	*
Didsbury ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.8	0	S	2	co-	44	92	8	5750	St.Cu	10	-	10	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.9	0	SW	1	fb-	32	97	1	-	-	-	-	-	*
Falmouth ...	1029.2	0	NNE	1	bc	48	92	8	-	-	-	-	-	*	1028.5	0	W	1	f.o	38	97	1	-	St	10	-	10	*
Calshot (Hants)...	1029.4	0	-	0	f.fb	40	97	1	-	-	-	-	-	*	1028.7	-1	N	1	f.fb	34	97	1	-	-	-	-	-	0
Lympne (Folkestone)	1029.9	0	-	0	bc	40	92	8	-	-	-	Ci	1	*	1028.6	0	-	0	bc	42	85	8	-	-	-	Ci	3	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.9	+2	W	2	co+	43	85	6	4000	St.Cu	10	-	10	*
Howden ...	1026.3	+1	-	0	b.or.bc	39	97	5	-	-	-	-	-	*	1026.3	+1	S	1	co+	41	97	5	1500	St	10	-	10	*
Cranwell (Lincs)	1027.0	+1	W	2	bc-	43	85	6	-	-	-	-	-	*	1027.1	0	WSW	1	bc	41	92	6	-	-	-	Ci	1	*
Felixstowe ...	1026.4	+1	WSW	3	bc+	45	85	8	-	-	-	A.St	2	*	1028.0	0	WNW	2	bc	41	92	4	-	-	-	Ci	3	1
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.2	0	W	1	fb-	40	86	6	-	-	-	Ci	1	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	0	SW	1	fo	37	97	3	-	St	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.7	-1	SSW	1	fo-	32	85	1	450	St	10	-	10	*
London (M.O. at 1H.)	1028.6	0	*	*	*	42	*	*	*	*	*	*	*	*	1028.3	+1	SW	1	bc	35	97	6	4000	St.Cu	1	-	1	*
Croydon ...	1029.3	-1	SSW	3	bc+	40	85	8	-	-	-	Ci	3	*	1028.8	0	S	3	bc-	38	92	7	-	-	-	Ci.St	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.	Rainfall mm. ‡ Day	Rainfall mm. ‡ Night	Temp. Max. Day. °F	Temp. Min. Night. °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 ...	1008.5	45	W	6	bc/r	1016.2	+2	42	-6	SW	3	-	bc/r	2	2	6	52	37	p	p	p.r.ard	*
Stornoway ...	1014.1	45	W	6	bc-	1021.0	+2	39	-14	W	1	-	co-	0	1	3	54	37	c	b or bc	p	4.3
Castlebay (Barra Is)	1017.6	48	WNW	5	co/r	1022.8	+2	44	-8	WNW	4	-	co-	4	0.1	-	52	42	p		0.0	3.3
Malin Head ...	1019.4	48	SW	2	co-	1023.7	+1	44	-6	W	3	-	p.r.	1	0.4	0.1	51	43	oo	c	0.0	0.0
Blacksod Point	1020.0	49	SW	2	co/r	1025.3	+2	44	-8	-	0	-	co	0	0.3	-	53	41	r.ard	c	b.or.b.c	*
Roche's Point...	1023.6	50	SW	3	co	1026.4	0	48	-2	WNW	3	-	dd	0	-	2	53	48	oo	oo	r.ard	*
Birr Castle ...	1022.9	53	SW	1	co+	1026.7	*	44	-7	W	1	-	rr	*	-	7	56	44	c	oo	r.ard	0.5
Donaghadee ...	1020.5	53	WSW	2	r.	1025.6	+1	43	-8	WSW	1	-	co/r	0	Trace	4	55	42	oo	c	r.ard	*
Liverpool (Bidston)	1024.7	51	SW	3	bc	1025.2	0	46	-4	SW	3	-	bc.r	3	-	-	57	45	b or bc	b or bc	b or bc	10.6
Holyhead ...	1024.2	49	SW	5	co	1025.7	0	47	-2	SSW	4	-	d.d.	0	-	0.2	51	46	oo	oo	b.or.bc.form	0.3
Pembroke (St. Ann's Head)	1027.9	48	SW	3	co	1027.8	-1	48	0	SW	2	-	co	3	-	-	50	?	oo	oo	0.0	0.4
Scilly (St. Mary's)	1028.4	51	SW	1	co+	1028.4	-1	46	-2	SW	1	-	bc-	3	-	-	53	45	b or bc	b or bc	b.or.b.c.	8.0
Jersey (St. Aubin)	1028.9	58	E	1	bc	1027.6	0	51	-8	ENE	2	-	bc	0	-	-	60	46	b or bc	b or bc	b.or.bc	10.5
Portland Bill ...	1029.0	49	SW	4	bc	1028.1	-3	47	-1	E	2	-	f.fo	3	-	-	50	40	b or bc	b or bc	b.or.bc.f	*
Dungeness ...	1028.7	50	WSW	2	bc	1028.2	0	33	-13	-	0	-	fb+	1	-	-	55	28	b or bc	b or bc	b.or.bc.form	*
Wick ...	1012.1	47	W	5	bc-	1020.4	+1	37	-16	W	2	-	bc+	0	-	-	59	36	c	c	c.b.or.bc	*
Nairn ...	1015.3	49	W	3	c	1022.3	*	39	-15	W	1	.	bc	1	-	0.4	60	37	qc.bc.bc	bcq.qc	c.p.g	8.6
Leith ...	1018.1	50	SW	4	o	1023.8	+1	44	-9	SW	2	-	o	2	0.2	-	54	44	o.c.p.o	c.q.p.o	c.d.o.m.o	*
Tynemouth ...	1019.2	52	W	4	bc+	1023.6	+1	47	-4	NNE	2	-	co	1	-	-	59	45	b or bc	c	b.or.bc.o.o	*
Spurn Head ...	1023.1	54	WSW	2	bc-	1026.1	0	43	-5	WSW	2	-	co-	0	-	-	57	40	c	b or bc	b.or.bc.	*
Yarmouth (G.Y. Station)	1025.6	63	WSW	3	bc	1026.7	0	40	-3	WSW	2	-	bc	0	-	-	66	40	b or bc	b or bc	b.or.bc	10.5
Clacton-on-Sea...	1027.2	53	SW	3	bc	1027.9	0	39	-6	W	2	-	bc/f	0	-	-	59	38		b or bc	f.o.r.m	9.0
Nottingham ...	1025.1	59	SW	2	bc-	1026.8	*	42	-6	W	2	-	co+	3	-	-	64	38	b or bc	b or bc	c	9.7

* No observation for these stations not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3. † See footnote p. 4.

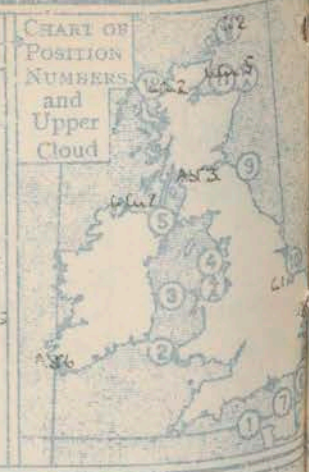
M.O. FORM 2370

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 25.3.1921

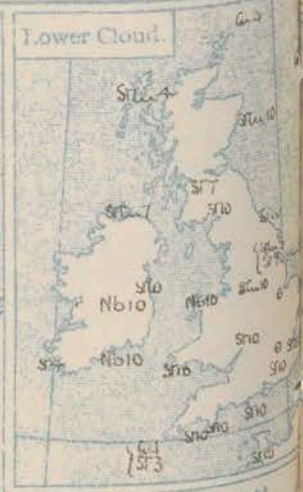
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Variable sky, local fog	Var.	Calm
2. E. England	Fair or fine	Indiff.	Smooth
3. E. Midlands	Fine to cloudy, local fog.	Var.	---
4. W. Midlands	Fine to cloudy, local fog	"	---
5. S.W. England	Variable, local fog.	"	Smooth
6.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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T	Sea °F	Air °F
5.	24th	08.26	47	50
3.	"	10.00	50	52
8.	"	11.25	45	47
1.	"	12.25	50.0	53.5
12.	"	?	46	52
2.	25th	02.30	49	48.5
4.	"	04.30	46	48
5.	"	08.29	46	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 Beaufort 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. Z thunderstorm.
SEA DISTURBANCE.—Rough High

GENERAL INFERENCE from observations received up to 9h

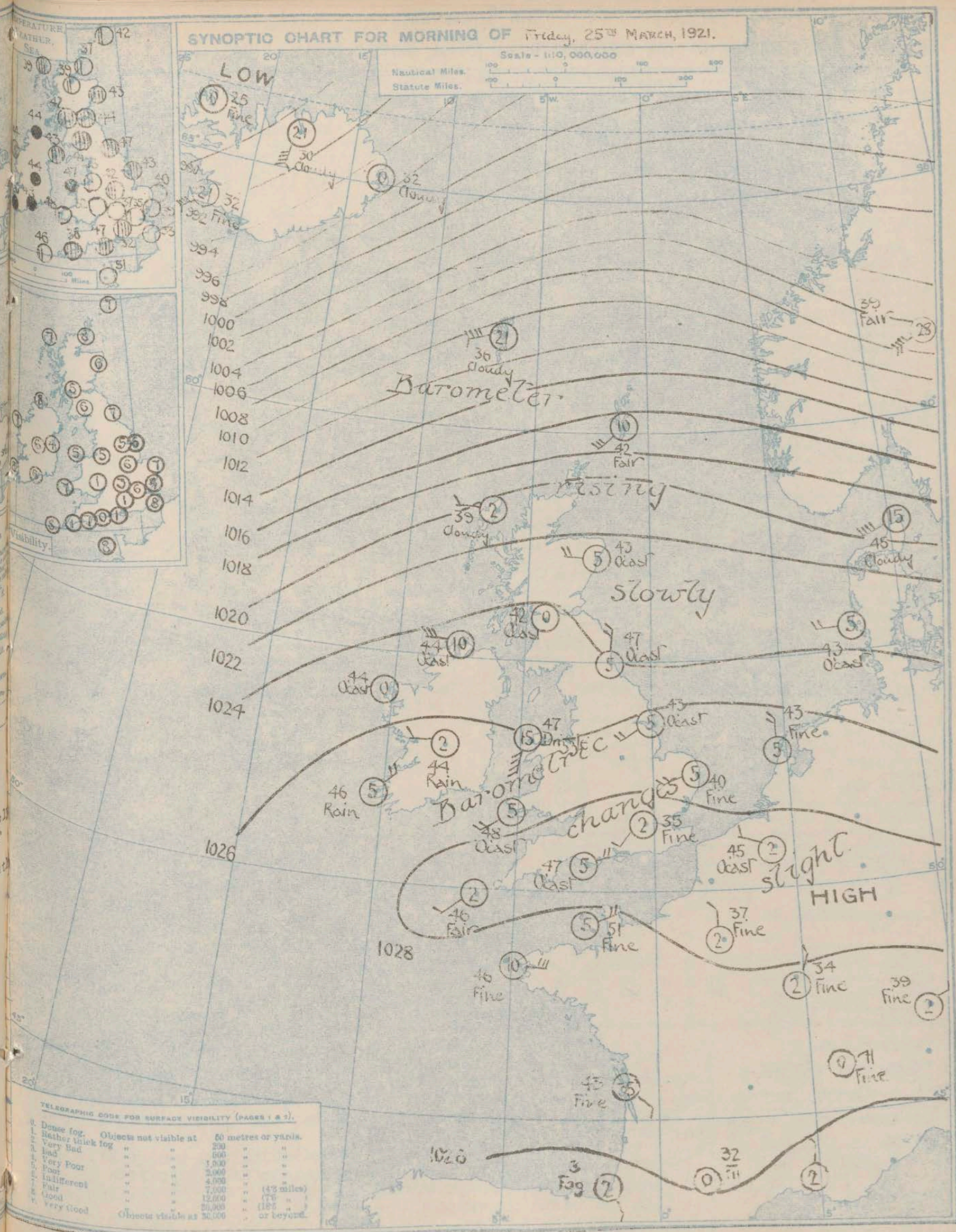
An anticyclone over Southern England is spreading North and during the next two days the weather will be fair to fine generally with slight local drizzle on Friday in Western Scotland and Ireland.

The wind will be light everywhere, except possibly on our extreme N.W. Coasts.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Friday 25th March 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 10. N.E. England 11. E. Scotland	Light breezes, mainly from S.W., and W; fair to fine; some mist or fog at night; mainly warm but ground frost early in most inland districts.	Fair, quiet weather is likely to continue for at least three days in the South of England.
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	Light, South-Westerly breezes; mainly fair, but slight drizzle locally; visibility good apart from morning mist; rather mild.	

S.V.N.

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 Friday, 25th March, 1921.
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Barometer
rising
slowly
Barometric
changes
slight
HIGH
Visibility
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4½ miles)
7. Fair " " 12,000 " (7½ ")
8. Good " " 20,000 " (12½ ")
9. Very Good Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 84

FRIDAY 25th MARCH 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. 23th-24th	Rainfall. Day. 9h-18h. 24th	Sunshine. Sunrise to Sunset. 24th
Scotland.	Banff	c. bcq	q. bc. b	64	50	-	-	6·9
	Montrose	bc. c	bc	57	47	-	-	1·8
England, N.E.	Harrogate	b	b	59	46	-	-	9·0
	Skegness	b	b	64	45	-	-	9·1
England, E.	Lowestoft ...	bc	bc	66	45	-	-	9·8
	Felixstowe	bcm	bm	62	43	-	-	9·3
	Southend-on-Sea...	bc. b	b	63	41	-	-	9·6
England, S.E.	Tunbridge Wells	b	b	63	40	-	-	11·1
	Margate	b	b	61	42	-	-	11·0
	Ramsgate	*	*	63	41	-	-	10·8
	Folkestone	wb	b	55	45	-	-	10·4
	Hastings	m. bv	b	56	44	0·2	-	11·4
	Eastbourne... ...	bc b	b	58	40	*	-	11·4
	Brighton	b	b	55	46	-	-	11·1
	Worthing	b	b	56	45	-	-	11·6
	Portsmouth (S'thsea)	*	*	61	42	-	-	11·0
	Bournemouth ...	b	b	60	44	-	-	11·2
	)	*	*					
England, N.W.	Blackpool	c	bc	54	48	-	-	5·9
	Southport	c	b	57	49	-	-	10·1
Midlands.	Leamington Spa...	b	b	62	45	-	-	9·0
	Bath	b	b	63	44	-	-	10·4
Wales.	Rhyl	b	b. bc	53	40	-	-	10·8
	Colwyn Bay ...	*	*	55	43	-	-	9·3
	Llandudno	b	b	56	48	-	-	9·6
	Aberystwyth ...	c. c. b	b. bc	54	48	-	-	9·5
England, S.W.	Weymouth	bc	b	59	45	0·2	-	11·1
	Torquay	b	b	63	45	-	-	10·9
	Penzance	b. bc	b	56	45	-	-	10·1
	Bude	b	b	58	41	-	-	11·0
	Ilfracombe	b	b	57	46	-	-	10·8

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 24th	Weather. 13h-18h 24th	Weather. 18h 24th-18h 25th	Weather. 18h-7h 25th	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h	Rainfall.† Night. 18h-7h	Sun. Hours.
Renfrew ...	r or d	r or d	0.0.	0.0	50	42	38	mm. 0·4	mm. –	0.0
Eskdalemuir	oo	r or d	r or d.	r or d	48	39	38	1	7	0.0
Valencia (Cahirc'ig)	r or d	r or d	r or d.	r or d	51	46	44	2	13	0.0
Raidonnel	c	c	p.	r or d	56	43	347	-	5	6·8
Manchester. (Alex. Pk.)	b or bc	b or bc	c		63	38	29	-	–	*
Ross on Wye... ...	c	b or bc	b or bc		61	30	24	.	–	9·4
Falmouth	b or bc	b or bc	b or bc	f or m	59	36	32	.	trace	11·3
Calshot (Hants)... ...	b or bc	b or bc	f or m	f	56	33	?	-	0·2	11·4
Lympne (Folkestone) ...	b or bc	b or bc	b or bc.	b or bc	58	37	28	.	trace	11·4
Aberdeen	c	c	c		59	43	37	-	–	3·8
Howden	b or bc	b or bc	b or bc	b or bc	65	36	25	-	–	9·2
Cranwell (Lincs)	c	b or bc	b or bc	b or bc	63	38	32	-	–	10·0
Felixstowe	c	b or bc	b or bc	b or bc	63	39	31	-	–	9·0
Shoeburyness	b or bc	b or bc	b or bc		65	32	22	-	–	9·6
Benson	b or bc	b or bc	f or m		64	29	22	.	–	*
S. Farnborough ...	b or bc	b or bc	f		65	25	21	-	–	10·8
London (Kew Obsy.) ...	b or bc	b or bc	b or bc		68	34	23	-	–	9·4
Croydon	c	b or bc	b or bc.	b or bc	64	35	27	.	-	*

WEATHER (p1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent ; – = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; c0 = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	33·5 or above

LONDON. OBSERVATIONS.

24 HOURS ENDED 9h G.M.T. 25th

	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)	b	b	b. b.x.	67	35	20	–	9.5	43	74
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*								
Regents Park (Botanic Gdns)	*	*	*	*	*	*	*	8.7	*	*
Camden Sq (British Rainfall)	bc. b	b	x	67	35	37	–	x	45	84
Kensington Palace	b	b	x	67	36	27	–	x	49(18h)	82
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.

25th & 26th MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5·48	11·59	6·1
	5·46	11·59	6·3
Greenwich	5·54	12·6	6·18
	5·52	12·6	6·20
Wick ...	6·4	12·18	6·33
	6·1	12·18	6·34
Valencia ...	6·35	12·47	6·59
	6·33	12·49	7·1

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.

At nearly all the English stations there were very good records of bright sunshine, in many cases over 11 hours.

At night (6 pm to 7 am) 13 mm of rain fell at Valencia, 7 mm at Birr Castle and 6 mm at Lerwick, but during the preceding day the totals were much smaller.

The temperature reached 66° at Yarmouth and Lowestoft, and 64° as far north as Banff, nevertheless frost occurred at Benson and Farnborough during the night. At the latter station the range of temperature was 40°.

* 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. 21674 Saturday 26th MARCH 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.	Total Amt. 0-10.	Sea 0-9.
	18H. G.M.T. 25th													
Renfrew	1025.1	0	SW	3	co	47	75	5	1500	StCu	8	A St.	10	*
Eskdalemuir ...	1026.3	+1	WSW	3	orr	40	85	6	2500	Nb	10	-	10	*
Valencia (Cahire'n)	1027.9	+1	NNE	3	co-	48	75	8	2500	StCu	10	-	-	*
Baldonnel ..	1026.9	0	NNW	1	orr	45	92	5	450	St.	6	-	10	*
Manchester (Alex. Pk)	1026.3	-1	NW	2	odd	49	92	5	1500	St	1	A St.	10	*
Ross on Wye ...	1026.3	-2	NNW	1	bc	57	65	8	4000	Cu	1	-	1	*
Falmouth	1026.7	-3	SE	3	bc	55	75	7	-	Cu	1	-	1	*
Calshot (Hants) ...	1027.4	-3.2	-	0	fb-	51	85	3	-	-	-	-	-	*
Lympne (Folkestone)	1026.4	-2	SSW	2	bc+	55	65	8	-	-	-	Ci St	5	*
Aberdeen	1023.4	0	S	1	co	47	75	8	2500	StCu	10	-	-	*
Howden	1025.8	-1	-	0	co	51	85	6	2500	St.	5	-	10	*
Cranwell (Lincs) ...	1025.7	-2	-	0	bc	57	65	7	1500	Cu	3	-	5	*
Felixstowe ...	1026.7	-2	SSW	2	bc+	56	65	6	-	-	-	Ci	4	*
Shoeburyness ...	1026.1	-4	WSW	1	bc/f	61	55	7	-	-	-	A Cu	2	*
Benson	1026.1	-2	WSW	1	bc-	57	55	6	-	-	-	-	-	*
S. Farnborough	1026.5	-1	-	0	bc/f	60	45	8	-	-	-	-	-	*
London (Kew Obsy.)	1026.8	-3	W	2	bc/f	54	55	6	-	-	-	A St.	2	*
Croydon	1026.9	-2	WNW	2	bc	59	55	6	-	-	-	Ci	1	*
	1H. G.M.T. OF 26th													
Renfrew ...	1023.3	-3	-	0	opr.	36	92	5	2500	Cu N	5	A St.	9	*
Eskdalemuir ...	1024.3	-2	-	0	co	35	92	6	4000	StCu	9	-	9	*
Valencia (Cahire'n)	1028.4	0	WNW	3	bc/r	44	*	*	*	*	*	*	*	*
Baldonnel ...														*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	1025.3	-1	W	1	bc	45	92	7	-	StCu	1	-	-	*
Calshot (Hants)...	1024.0	-1	-	0	bc	40	97	6	-	-	-	-	-	*
Lympne (Folkestone)	1023.7	-2	-	0	bc-	42	85	8	-	-	-	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	1023.8	-1	-	0	orr	41	97	5	1500	Nb	6	-	10	*
Cranwell (Lincs)	1023.2	-2	-	0	ffo	45	97	4	1500	St.	7	-	10	*
Felixstowe ..	1023.4	-1	NNW	1	bc	39	97	5	-	-	-	-	-	*
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1H.)	1023.9	-1	*	*	*	42	*	*	*	*	*	*	*	*
Croydon ...	1024.2	-2	S	2	bc+	39	92	5	-	-	-	Ci	3	*

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.	Total Amt. 0-10.	Sea 0-9.
	18H. G.M.T. OF 25th													
Renfrew	1025.0	+1	WSW	3	co-	43	75	8	2500	StCu	8	Ci	9	*
Eskdalemuir ...	1025.4	0	SW	3	co/r	39	92	6	2500	StCu	5	A St.	8	*
Valencia (Cahire'n)	1027.7	0	N	3	bc-	48	65	8	4000	Cu	1	Ci	4	1
Baldonnel ..	1026.9	0	-	0	co/r	45	85	6	800	StCu	5	A Cu	9	*
Manchester (Alex. Pk)	1025.1	0	NW	2	odd	47	97	4	1500	St.	10	-	10	*
Ross on Wye ...	1024.6	-2	N	1	bc+	52	75	9	4000	Cu	1	Ci	5	*
Falmouth	1025.5	-3	NNW	2	bc+	51	75	7	-	-	-	Ci Cu	2	*
Calshot (Hants) ...	1024.5	-3	SW	2	bc	54	75	6	-	-	-	-	-	0
Lympne (Folkestone)	1024.2	-4	S	1	bc-	51	75	8	-	-	-	Ci	2	*
Aberdeen	1022.5	-1	NW	2	bc/r	45	85	8	2500	Cu N	3	Ci	4	0
Howden	1024.3	-1	-	0	co	49	92	5	2500	St.	7	-	10	*
Cranwell (Lincs) ...	1024.6	0	W	1	co	51	85	7	2500	Cu	4	-	8	*
Felixstowe ...	1024.4	-2	SW	2	bc+	49	75	7	-	-	-	Ci	6	1
Shoeburyness ...	1023.8	-2	-	0	bc+	49	85	7	-	-	-	A St.	4	*
Benson	1024.1	-2	-	0	bc-	55	55	6	-	-	-	-	-	*
S. Farnborough	1024.6	-3	W	1	bc	58	55	8	-	-	-	-	-	*
London (Kew Obsy.)	1024.1	-3	W	2	bc	58	55	6	-	-	-	A Cu	2	*
Croydon	1024.3	-2	NW	1	bc	57	55	7	-	-	-	Ci	2	*
	7H. G.M.T. OF 26th													
Renfrew ...	1019.3	-3	WSW	3	co+	40	85	6	2500	StCu	8	-	8	*
Eskdalemuir ...	1021.1	-2	SW	1	co+	33	97	2	800	~~Cu~~	8	-	8	*
Valencia (Cahire'n)	1026.0	0	W	4	cph.	44	75	9	4000	Cu	7	-	7	3
Baldonnel ...	1023.8	-2	SW	1	co-	39	92	8	1500	St.	8	A Cu	10	*
Manchester (Alex. Pk)	1022.3	-1	W	3	co-	40	92	5	2500	StCu	2	A St.	7	*
Ross on Wye...	1022.5	0	N	3	~~orr~~ orr	42	97	6	1500	Nb	10	-	-	*
Falmouth ...	1023.5	-1	N	2	od	46	92	6	-	Nb	10	-	10	*
Calshot (Hants)...	1022.0	-2	-	0	co+	40	97	7	4000	StCu	3	Ci	7	0
Lympne (Folkestone)	1021.9	-1	-	0	bc/f	40	92	5	-	-	-	Ci	2	*
Aberdeen ...	1017.3	-3	SW	2	bc-	38	85	6	-	-	-	-	-	0
Howden ...	1021.8	-1	-	0	odd	41	97	5	1500	St.	10	-	10	*
Cranwell (Lincs)	1021.6	-1	NNW	1	or	41	97	6	1500	Nb	10	-	-	*
Felixstowe ..	1021.3	-2	NNW	2	bc	41	92	6	-	-	-	-	-	1
Shoeburyness...	1021.4	-1	WSW	1	ffb	38	85	3	-	-	-	A Cu	2	*
Benson	1022.0	-2	WSW	1	fb-	34	97	2	-	-	-	-	-	*
S. Farnborough	1021.8	-2	SW	1	co	34	97	4	-	-	-	A Cu	9	*
London (M.O. at 1H.)	1021.5	-1	NNW	1	co+	39	97	5	4000	St.	2	Ci	7	*
Croydon ...	1022.6	-1	-	0	bc	36	97	5	-	-	-	Ci	3	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

STATIONS.	Baron. 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. ‡ Day.	Rainfall mm. ‡ Night.	Temp. Max. Day. °F.	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 25th					7H. G.M.T. of 26th									24 HOURS ENDED 7H. 26th							25th
Lerwick ...	1017.2	43	W	3	bc-	1011.4	-4	41	-1	SW	3	-	c-	1	1	1	46	35	b or br	b or bc	p	*
Stornoway ...	1020.6	42	W	3	bc-	1010.8	-5	40	+1	SSW	6	-	c pr.	4	1	1	47	38	p	p	b or bc. p	7.0
Castlebay (Barra Is)	1023.0	44	W	4	bc									*	-				b or bc	b or bc		
Malin Head ...	1024.1	44	W	2	bc+	1017.5	-2	45	+1	SW	3	-	bc-	2	Trace	2	47	43	p	b or bc	p	4.3
Blacksod Point	1026.8	46	SW	1	bc	1020.6	-4	41	-3	SW	4	-	c-	2	-	0.3	49	40	b or bc	b or bc	b or bc. p	*
Roche's Point...	1027.2	47	NNW	2	orr.	1026.8	0	40	-8	NW	3	-	bc-	0	2	0.2	50	40	r or d	r or d	oo	*
Birr Castle ...	1026.5	47	NW	1	co	1024.3	*	39	-5	SW	1	-	co-	*	3	-	47	37	r or d	c	c	0.6
Donaghadee ...	1025.6	46	-	0	pr.	1021.3	-1	39	-4	WSW	1	-	co-	0	1	0.1	42	36	r or d	p	c	*
Liverpool (Bidston)	1025.3	43	NNW	2	odd	1022.5	-1	39	-7	NW	3	-	or. +	0	2	1	51	39	r or d	r or d	r or d	0.7
Holyhead ...	1026.1	43	N	4	orr.	1022.9	-1	44	-3	NW	3	-	co	1	5	0.3	48	41	f or m	r or d	r or d. oo	0.0
Pembroke (St. Ann's Head)	1026.1	48	SW	2	fo	1024.3	0	43	-5	NNW	2	-	co-	2	-	2	54	?	oo	oo	oo	0.6
Scilly (St. Mary's)	1026.3	53	W	1	bc-	1024.1	-1	45	+2	N	4	-	co+	4	-	0.4	54	45	b or bc	b or bc	b or bc. p	10.8
Jersey (St. Aubin)	1024.1	61	E	1	bc	1023.0	0	47	-4	NNW	2	-	co	0	-	-	65	39	b or bc	b or bc	c	11.0
Portland Bill ...	1025.0	49	-	0	bc	1022.7	-3	47	0	NNW	3	-	bc	0	-	-	49	42	f or m	b or bc	b or bc	*
Dungeness ...	1023.7	50	WSW	2	bc	1021.1	-2	38	+5	N	2	-	fb-	1	-	-	55	36	b or bc	b or bc	f or m	*
Wick	1020.5	43	W	1	bc	1012.4	-5	39	+2	SW	3	-	bc-	0	-	-	49	34	b or bc	b or bc	b or bc	*
Nairn	1021.6	43	-	0	c	1014.6	*	38	-1	W	1	-	bc	1	-	0.3	48	34	bcpcg	cg	cbcx	3.1
Leith	1023.5	45	SW	2	c	1018.4	-1	40	-4	SW	2	-	c	2	-	-	48	37	ougo	ouc	cbpc	*
Tynemouth ...	1026.0	43	NW	1	orr.	1020.8	-2	40	-7	W	1	-	co	0	4	0.5	48	39	p	r or d	oo	*
Spurn Head ...	1024.2	48	NW	2	co	1020.9	-1	43	0	NNE	4	-	co/r	1	-	4	53	40	c	c	m. r or d	*
Yarmouth (Gorleston)	1023.5	47	E	3	bc	1020.4	-2	42	+2	ENE	2	-	ffb	0	-	-	58	35	b or bc	f or m	f or m	10.9
Clacton-on-Sea...	1023.8	49	SSW	2	co+	1021.1	-2	39	0	NW	2	-	bc/f	0	-	-	55	37	b or bc	b or bc	f or m	9.8
Nottingham ...	1024.4	52	W	2	co-	1021.5	*	43	+1	N	1	-	od +	*	-	2	56	42	c	c	r or d	2.9

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

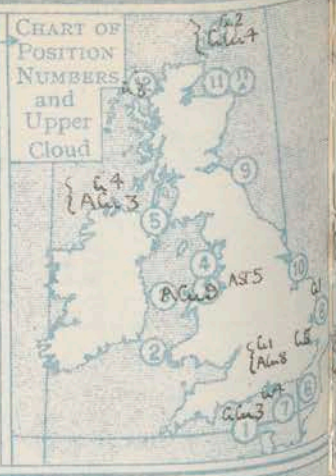
M.O. FORM 2370.

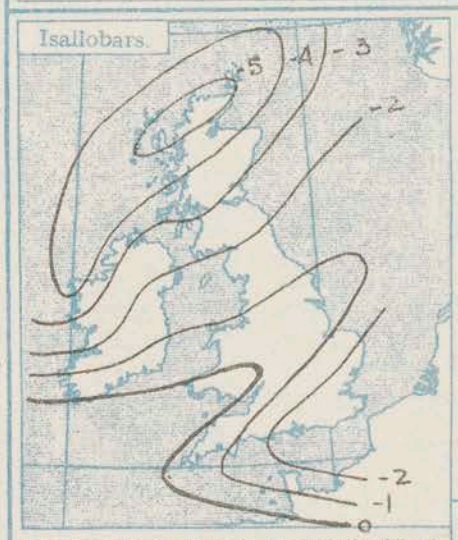
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 26.3.1921.

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

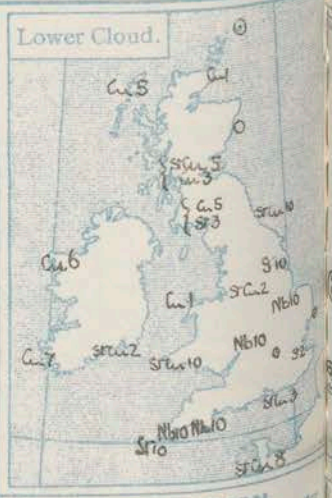
Temperature reported from Coastal and Cross Channel Steamers.

Position-Number.	Date	Time G.M.T.	Sea °F	Air °F
6	25th	1335	50	53
7	26th	0235	48	49
4a	"	0510	?	45
12	"	0430	51	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

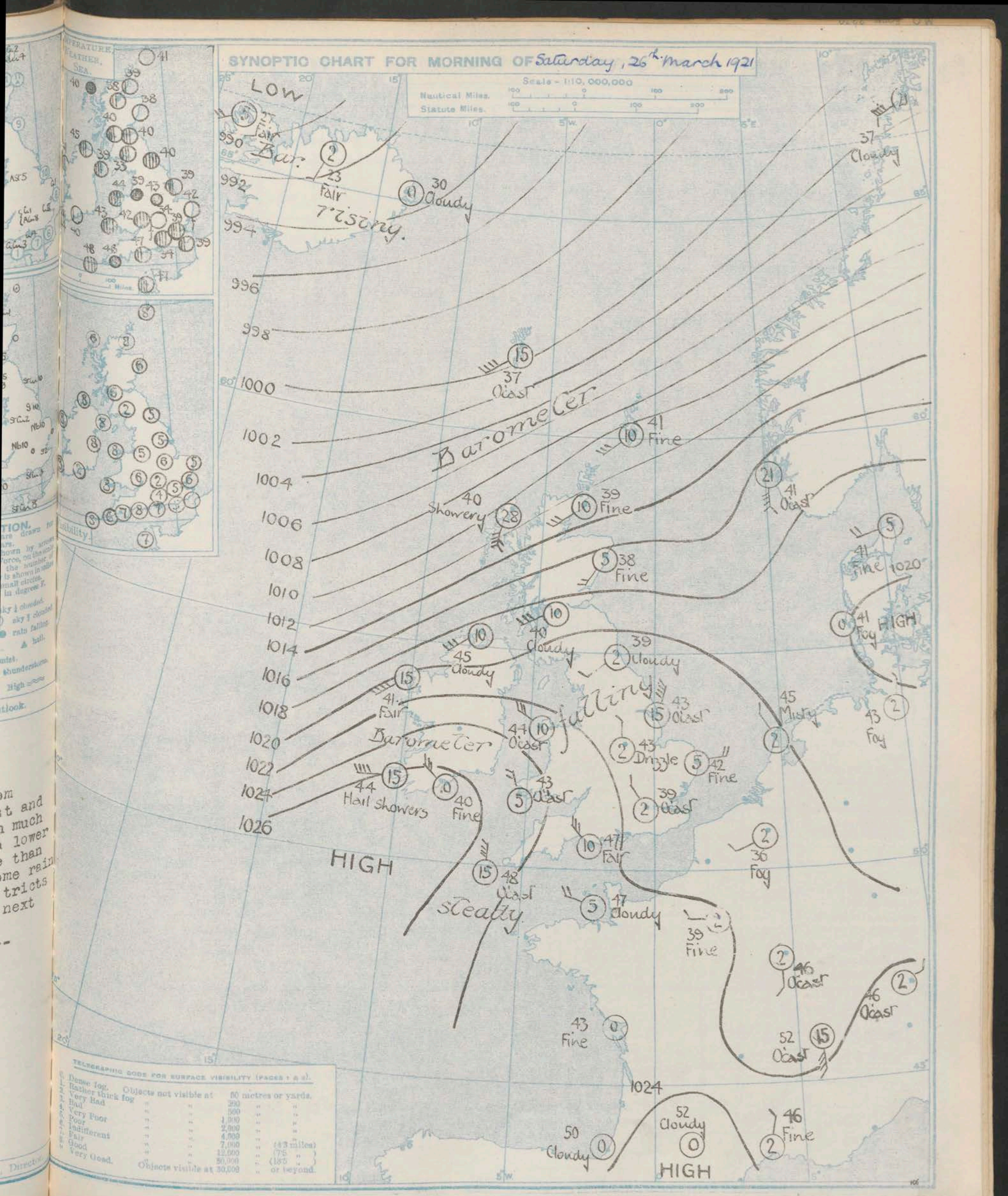
GENERAL INFERENCE from observations received up to 9h.

A depression near the Faroe will move South-East and cause fresh Westerly to North-Westerly winds generally during the next day or two. Lower temperatures are probable and much cloud and some showers especially in Scotland and Eastern England, but considerable fair intervals in the West.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Saturday, 26th March, 1921.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate N.W. wind, freshening later; much cloud, some local showers, visibility fair to good; colder than of late.
7. North Wales 8. N.W. England 9. N. Midlands	Moderate to fresh N.W. wind; some showers but bright intervals later; visibility fair to good; colder than of late.
10. N.E. England 11. E. Scotland	Freshening N.W. wind; much cloud, some rain, visibility fair to good; colder than of late.
12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides	Fresh S.W. to W. wind, becoming N.W. later; much cloud, some rain, visibility fair to good; rather cold.
16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Moderate S.W. wind, becoming light and indefinite; much cloud, some rain, visibility indifferent; moderate temperature.
19. S.E. Ireland 20. S.W. Ireland	Same as 7 - 9.

Further Outlook.

Winds from between West and North, with much cloud and a lower temperature than of late. Some rain in most districts during the next few days.


SYNOPTIC CHART FOR MORNING OF Saturday, 26th March 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
Bar. 990
992
994
996
998
1000
1002
1004
1006
1008
1010
1012
1014
1016
1018
1020
1022
1024
1026
Barometer
Barometer falling steady
HIGH
HIGH
1024
1020
Showery
Hail showers
Misty
Fog
Drizzle
Cloudy
Fair
Fine
Overcast
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Rather thick fog " " " 200 " "
2 Very Bad " " " 500 " "
3 Bad " " " 1,000 " "
4 Very Poor " " " 2,000 " "
5 Poor " " " 4,000 " "
6 Indifferent " " " 7,000 " (4·3 miles)
7 Fair " " " 12,000 " (7·5 ")
8 Good " " " 20,000 " (18·5 ")
9 Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 85 ... Saturday 26 March

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 25

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 24-25	Rainfall. Day. 9h-18h. 25	Sunshine. Sunrise to Sunset. 25
Scotland.	Banff	oc	oc b	48	40	-	0.1	0.9
	Montrose	o	co	50	42	-	-	0.9
England, N.E.	Harrogate	co	o	51	43	-	-	0.1
	Skegness	bobcb	bc.bbc	54	37	-	-	9.2
England, E.	Lowestoft ...	bc	bc w	58	40	-	-	10.1
	Felixstowe	bm	bcm	54	38	-	-	10.2
	Southend-on-Sea...	b	bbc	64	37	-	-	9.8
England, S.E.	Tunbridge Wells	b	b	65	32	-	-	11.0
	Margate	b	bbc c	56	40	-	-	7.9
	Ramsgate	*	*					
	Folkestone	b	b	58	38	-	-	9.8
	Hastings	b	b	57	40	trace	-	11.2
	Eastbourne... ...	b	b	60	35	-	-	11.2
	Brighton	b	b	55	45	-	-	10.9
	Worthing	b	b	56	32	-	-	11.4
	Portsmouth (S'thsea)							
	Bournemouth ...	*	*	~~56~~ 59	29	-	-	6.5
	)	*	*					
England, N.W.	Blackpool	or	or	48	43	1	1	0.0
	Southport	do	od	48	42	-	1	0.0
Midlands.	Leamington Spa...							
	Bath	b	b	58	42	-	-	10.9
Wales.	Rhyl	bcc	cp	51	43	-	2	0.8
	Colwyn Bay ...	-	-	52	44	-	2	1.2
	Llandudno	*	*	51	43	-	2	0.0
	Aberystwyth ...	ooc	cor	51	45	-	1	0.0
England, S.W.	Weymouth	b	b	62	34	-	-	91.5
	Torquay	bz	bz	60	35	-	-	11.1
	Penzance	bc b	bc b	56	41	-	-	10.2
	Bude	wmb	b	54	34	-	-	8.2
	Ilfracombe	cbcb	bbc	51	42	-	-	7.4

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 25	Weather. 13h-18h 25	Weather. 18h-1h 25/26	Weather. 1h-7h 26	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	oo	p	oo	c	49	34	25	0.3	0.3	0.4
Eskdalemuir ...	r or d	r or d	c	c	42	32	30	3	0.2	0.0
Valencia (Cahire'a) ...	r or d	c	b or bc	p	50	39	33	0.4	1	3.3
Baldonnel	r or d	r or d	p	oo	46	38	31	6	0.1	0.3
Manchester (Alex. Pk)	r or d	r or d	r or d	r or d	51	40	36	0.3	6	*
Ross-on Wye... ...	b or bc	b or bc	r or d	r or d	60	42	36	-	2	7.7
Falmouth	b or bc	b or bc	b or bc	r or d	56	41	35	-	0.4	8.2
Calshot (Hants)... ...	F	b or bc	f or m	f or m	58	36	?	-	2.	7.2
Lympne (Folkestone) ...	b or bc	b or bc	b or bc	f or m	57	38	29	-	trace	10.8
Aberdeen	oo	p	b or bc	b or bc	50	33	22	0.2	-	0.7
Howden	oo	oo	r or d	r or d	53	41	38	-	5	0.0
Cranwell (Lincs)	b or bc	c	c	r or d	58	40	37	-	1	8.6
Felixstowe	b or bc	oo	b or bc	b or bc	57	36	29	-	-	9.8
Shoeburyness	b or bc	b or bc	b or bc	b or bc	62	32	25	-	-	8.1
Benson	b or bc	b or bc	f or m	f or m	60	29	23	-	-	*
S. Farnborough ...	f or m	b or bc	oo	oo	64	27	25	-	-	7.5
London (Kew Obsy.) ...	f or m	b or bc	b or bc	b or bc	60	36	26	-	-	7.6
Croydon	b or bc	b or bc	b or bc	f or m	62	34	28	-	-	~~7.3~~ *

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain ; i = intermittent ; − = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; co = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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	3·4- 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

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. 26							Yesterday.		To-day.
Greenwich (Royal Observatory)	b	b	bc cx	63	34	24	-	10.7	45	77
City (Bunhill Row) ...	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*	bx b	62	37	29	-		44	76
Regents Pk (Botanical Gdns)	*	*	*	*	*	*	*	9.0	*	*
Camden Sq. (British Rainfall)	-	-	*	69	37	29	-	*	?	75
Kensington Palace ...	b	b	*	62	37	30	-	*	56 (18h)	81
Hampstead Observatory ...	*	*	*	60	41	*	-		*	84

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.

26 & 27 March 1921.

Stations.	Sunrise G.M.T.	Noon G.M.T.	Sunset G.M.T.
Yarmouth...	5.45	11.59	6.13
	5.42	11.59	6.15
Greenwich	5.52	12.6	6.20
	5.50	12.6	6.22
Wick ...	6.1	12.18	6.36
	5.58	12.18	6.38
Valencia ...	6.33	12.47	7.1
	6.31	12.47	7.3

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 slightly exceeded 60° in parts of Southern England, but in the West and North remained below 50° generally. There was frost at night at Benson and South Farnborough. Sunshine records were very good again in the South and East of England, and also in the Hebrides.

* 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. 21675 SUNDAY 27TH MARCH 1921.

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

13h. G.M.T. 26th (left) / 18h. G.M.T. of 26th (right)

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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	1013·9	-5	WSW	5	pr0	45	75	7	1500	Cu Nb	7	-	7		1011·9	-2	WSW	3	pr0	39	75	8	2500	Cu Nb	6	A St	9	÷
Eskdalemuir	1015·6	-3	SW	5	co/r	42	75	6	2000	St	10	-	10	*	1012·6	-2	W	5	ps0	34	92	6	~~750~~ 2500	St	~~7~~ 10	~~A Cu~~	~~7~~ 10	*
Valencia (Cahirc'n)	1020·9	0	W	4	PH	47	75	9	2000	Cu	8	-	8	*	1026·2	+1	NW	5	co+	46	65	9	2600	St Cu	5	A Cu	8	3
Baldonnel	1020·9	-4	W	4	pr0	48	75	8	2500	Cu	6	A St	7	*	1019·3	+1	W	4	pr0	42	65	8	1500	St Cu	4	A St	7	*
Manchester (Alex. Pk)	1020·2	-3	W	3	d0	46	65	8	1500	St Cu	10	-	10	÷	1016·7	-3	WSW	4	cov	46	65	9	2500	St Cu	9	A Cu	10	÷
Ross on Wye	1021·4	-2	WNW	3	cov	49	55	9	5750	St Cu	9	-	9	*	1020·0	-1	WNW	2	bc-	44	92	6	4000	St Cu	5	-	5	*
Falmouth	1024·3	0	NW	4	co	50	55	8	-	Cu Nb	7	-	7	*	1024·2	0	WNW	4	bc	46	65	7	-	Cu Nb	1	-	1	*
Calshot (Hants)	1020·8	-2	NNW	3	co/r	47	94	5	4000	St Cu	10	-	10	÷	1020·7	0	NW	4	co-	47	65	8	1500	St Cu	9	-	9	1
Lympne (Folkestone)	1018·4	-5	WSW	4	co	56	75	8	4000	Cu	6	Ci St	8	*	1018·4	0	NNW	3	co/r	45	65	8	2500	St	10	-	10	*
Aberdeen	1010·8	-7	SW	4	bc+	50	65	8	4000	Cu	2	-	2	÷	1007·8	-3	SW	4	bc-	41	75	8	4000	St Cu	3	-	3	0
Howden	1018·7	-4	WNW	3	co	47	65	7	4000	St Cu	7	A St	10	*	1015·5	-5	W	4	bc-	45	65	9	4000	St	3	A St	5	*
Cranwell (Lincs)	1020·1	-2	WNW	2	co/r	47	75	7	2500	Cu	7	A St	9	÷	1017·4	-2	W	1	bc-	~~46~~ 45	65	8	4000	St Cu	1	-	1	÷
Felixstowe	1019·1	-1	NNW	3	co+	50	75	6	4000	St	10	-	10	*	1018·4	0	NNW	3	co-	42	92	7	1500	St Cu	6	A St	8	*
Shoeburyness	1019·0	-3	NE	2	fo+	49	75	5	1500	St	10	-	10	*	1018·3	-1	N	3	co/f	45	85	7	2500	St Cu	4	A Cu	7	*
Benson	1020·9	0	WNW	2	?	48	75	6	-	St	10	-	10	*	1019·5	-1	NW	2	?	47	55	8	-	St	9	-	9	*
S. Farnborough	1010·6	-1	W	2	co	48	75	8	1600	St Cu	10	-	10	*	1019·7	-1	SW	2	co	47	65	8	4000	St Cu	9	-	9	*
London (Kew Obsy.)	1020·1	-1	NW	2	co/r	48	75	6	1500	St Cu	10	-	10	*	1018·9	-1	NW	3	co-	48	55	6	4000	St Cu	8	-	8	*
Croydon	1020·7	0	W	3	co/r	47	85	5	1500	St	10	-	10	*	1019·1	-2	NW	3	co-	47	65	7	2500	St Cu	6	A Cu	9	*

1h. G.M.T. of 27th (left) / 7h. G.M.T. of 27th (right)

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	Total 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	Total Amt. 0-10	Sea 0-9
Renfrew	1011·7	0	SW	4	bc	36	85	8	2500	St	3	-	3	÷	1010·1	-2	W	4	bc	36	85	8	1500	Cu	4	-	4	÷
Eskdalemuir	1012·7	0	W	6	co/s	34	85	6	2500	St Cu	8	-	8	*	1010·6	-1	W	5	bc+	34	85	6	2500	Cu	3	-	3	*
Valencia (Cahirc'n)	1026·7	0	WNW	5	PR-	42	*	*	*	*	*	*	*	÷	1026·3	0	NW	5	pr0	47	75	8	2000	Cu	7	-	7	6
Baldonnel	1020·8	0	WSW	3	bc	38	85	7	1500	St Cu	1	A S	2	*	1019·8	0	WSW	3	bc-	38	92	8	2500	St Cu	3	Ci	4	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015·6	-1	W	6	co/r	40	85	8	1500	St Cu	10	-	10	÷
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1019·9	0	WNW	3	bc-	40	75	9	4000	St Cu	5	Ci	6	*
Falmouth	1025·0	0	NW	4	bc-	43	75	8	-	St Cu	3	-	3	*	1025·2	+1	NW	3	pr0	41	85	8	-	Cu Nb	2	-	2	*
Calshot (Hants)	1020·2	0	W	4	bc	40	85	8	-	-	-	-	-	*	1021·4	0	W	4	bc	39	85	8	-	-	-	-	-	0
Lympne (Folkestone)	1018·7	+1	WNW	2	bc+	36	92	6	2500	St	4	-	4	*	1019·2	+1	WNW	3	bc-	33	97	9	-	-	-	-	-	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005·5	-1	W	3	bc	36	85	8	-	-	-	A St	2	0
Howden	1014·7	0	S	3	bc/r	35	92	6	2500	St	2	-	2	*	1013·0	-1	W	5	co+	39	65	6	2500	St	6	A St	10	*
Cranwell (Lincs)	1016·9	0	W	2	bc-	35	92	8	-	-	-	-	-	*	1016·0	-1	WSW	3	co+	36	85	8	4000	St Cu	4	A Cu	7	*
Felixstowe	1017·5	-1	WNW	3	bc	40	75	7	-	-	-	-	-	÷	1015·0	0	WNW	4	bc	36	85	8	-	-	-	-	-	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018·5	0	WNW	2	bc	38	75	7	-	-	-	-	-	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·0	0	W	1	bc	35	92	7	-	-	-	-	-	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020·0	+1	WSW	2	bc	36	85	8	-	-	-	-	-	*
London (M.O. at 1h.)	1019·6	-2	*	*	*	41	*	*	*	*	*	*	*	*	1019·4	+2	W	3	bc	38	75	8	-	-	-	-	-	*
Croydon	1019·7	-2	NW	2	bc	38	92	7	-	-	-	-	-	*	1020·5	0	WSW	4	bc-	36	85	8	-	-	-	-	-	*

STATIONS CONTRIBUTING REPORTS AT 7H. AND 18H.

18h. G.M.T. of 26th / 7h. G.M.T. of 27th / 24 hours ended 7h. 27th / Sunshine 26th

Stations	Barom. at M.S.L. mb. (18h)	Temp. °F. (18h)	Wind Direc. (18h)	Wind Force 0-12 (18h)	Weather (18h)	Barometer at M.S.L. mb.	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. Day	Rainfall mm. Night	Max. Day °F.	Min. Night °F.	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
Lerwick	1002·5	39	SW	3	pr0	999·5	-1	35	-6	W	2		ph0	1	3	5	45	30	b or bc	p.	S or RS. L	*
Stornoway	1003·7	40	W	5	PH	1006·7	+2	37	-3	WNW	6		PH	4	4	5	43	33	p	p	h or hr. p	4·3
Castlebay (Barra)	1008·6	42	WNW	6	ph0									*	2				r or d	p		
Malin Head	1012·0	41	W	5	PR-	1013·1	+1	40	-5	WNW	5		PH	5	2	5	45	36	h or hr	p	h or rh	3·3
Blacksod Point	1019·1	40	W	4	pr0	1020·3	+1	45	+4	W	5		pr0	4	1	0·5	55	39	p	p	h or hr. p	*
Roche's Point	1024·2	46	WNW	5	bc-	1025·5	0	45	+5	WNW	4		pr0	0	0·3	1	50	41	p	b or bc	p	*
Birr Castle	1021·4	42	W	3	ph0	1021·7	*	41	?	W	2		co-	*	2	-	48	37	p	h or hr	c	7·7
Donaghadee	1016·0	40	WNW	4	ph0	1015·1	-1	38	-1	WNW	4		pr	3	1	1	49	35	c	h or hr	p	*
Liverpool (Bidston)	1016·7	45	W	7	[illegible]	1015·5	-2	41	+2	W	7		bc	6	0·5	2	49	40	c	b or bc	b or bc	5·4
Holyhead	1017·8	44	W	5	co+	1017·8	0	42	-2	W	6		co	4	1	-	50	40	b or bc	h or hr	b or bc	5·4
Pembroke (St. Ann's Head)	1021·8	47	W	4	bc+	1022·6	0	45	+2	NW	4		bc+	3	-	-	48	42	c	b or bc	c	6·6
Scilly (St. Mary's)	1025·0	48	NW	5	bc	1026·6	+1	45	-3	NW	4		bc+	5	-	0·2	51	43	b or bc	b or bc	b or bc. p	7·7
Jersey (St. Aubin)	1021·9	47	NW	3	co/r	1024·4	+1	46	-1	NW	4		bc	0	2	-	58	43	c	r or d	b or bc	2·3
Portland Bill	1021·7	47	NW	4	bc-	1022·0	+2	45	-2	NW	5		bc	5	-	-	60	44	oc	b or bc	b or bc	
Dungeness	1018·0	49	NNW	2	co/r	1018·8	+1	37	-1	NW	3		bc	1	1	-	55	32	b or bc	r or d	fm. b or bc	*
Wick	1004·3	39	WNW	3	co	1003·0	0	32	-7	WSW	2		S0 Sp	0	1	0·3	45	31	p	c	S or RS	*
Nairn	1006·5	34	W	1	r	1005·8	*	33	-5	W	1		bc	1	3	1	43	32	bc. cpq	prs. ch. p	cq prs	6·5
Leith	1009·9	39	W	4	c	1007·9	-1	36	-4	W	4		c	3		1	49	35	cb. c. bc	c	cq. b. c	*
Tynemouth	1012·9	46	WNW	5	r	1009·5	-1	36	-4	W	4		bc	0	TR	2	50	36	p	b or bc	b or bc	*
Spurn Head	1015·6	46	W	3	bc	1012·0	0	40	-3	NW	6		bc	6	0·1	-	46	36	p	c	c. b or bc	*
Yarmouth (Gorleston)	1016·0	45	NNW	2	co/r	1016·0	0	35	-7	WNW	4		bc-	0		-	49	34	f or m	r or d	c. b or bc	0·0
Clacton-on-Sea	1018·2	46	NW	3	bc/r	1017·8	0	37	-2	W	3		bc	1	0·6	-	60	35	r or d	r or d	b or bc	3·1
Nottingham	1017·4	46	W	2	co	1016·0	*	37	-8	W	3		bc+	*	0·3	1	49	35	c	c	r or d	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.

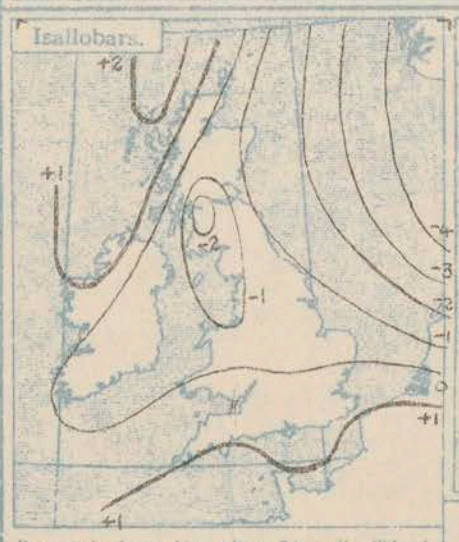
M.O. FORM 2370.

SUMMARY OF CONDITIONS AT 7 h. G.M.T. 27.3.1921

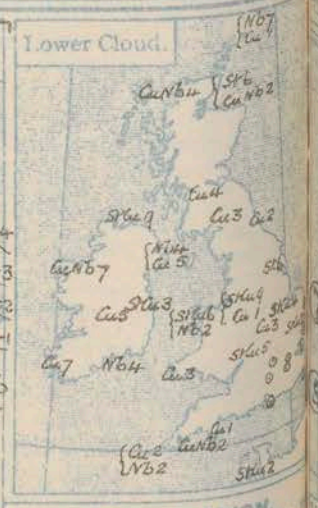
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudless	Good	Slight
2. E. England	Fine to cloudy	"	"
3. E. Midlands	Mainly fine	Indiff.	---
4. W. Midlands	Fair or cloudy	Good	---
5. S.W. England	Fine or fair, local showers	"	Mod.
6. South Wales	Fine or fair	"	"
7. North Wales	Fair or cloudy	"	"
8. N.W. England	Variable sky	"	R.Rough
9. N. Midlands	Variable sky	Indiff.	---
10. N.E. England	Variable sky	Good	Mod.
11. E. Scotland	Fine to cloudy	"	Slight
12. S.W. Scotland	Fine or fair	Fair	Mod
13. Isle of Man	Showery	Good	R.Rough
14. N.&N.W. Scotland	Variable, local snow or (hail.	Fair	Mod.
15. Hebrides	Fair, local hail showers.	"	R.Rough
16. Orkneys and Shetlands	Cloudy; hail showers	"	Slight
17. N.W. Ireland	Rain or hail showers	"	R.Rough
18. N.E. Ireland	Rain or hail showers	"	Mod.
19. S.E. Ireland	Fair, light showers (locally	Good	Slight
20. S.W. Ireland	Showery.	"	R.Rough

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
5	26th	0829	46	43
1	"	1215	44	43
9	"	1340	44	46
2	27th	0220	46	42
4	"	0218	46	45
4A	"	0440	45	43



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



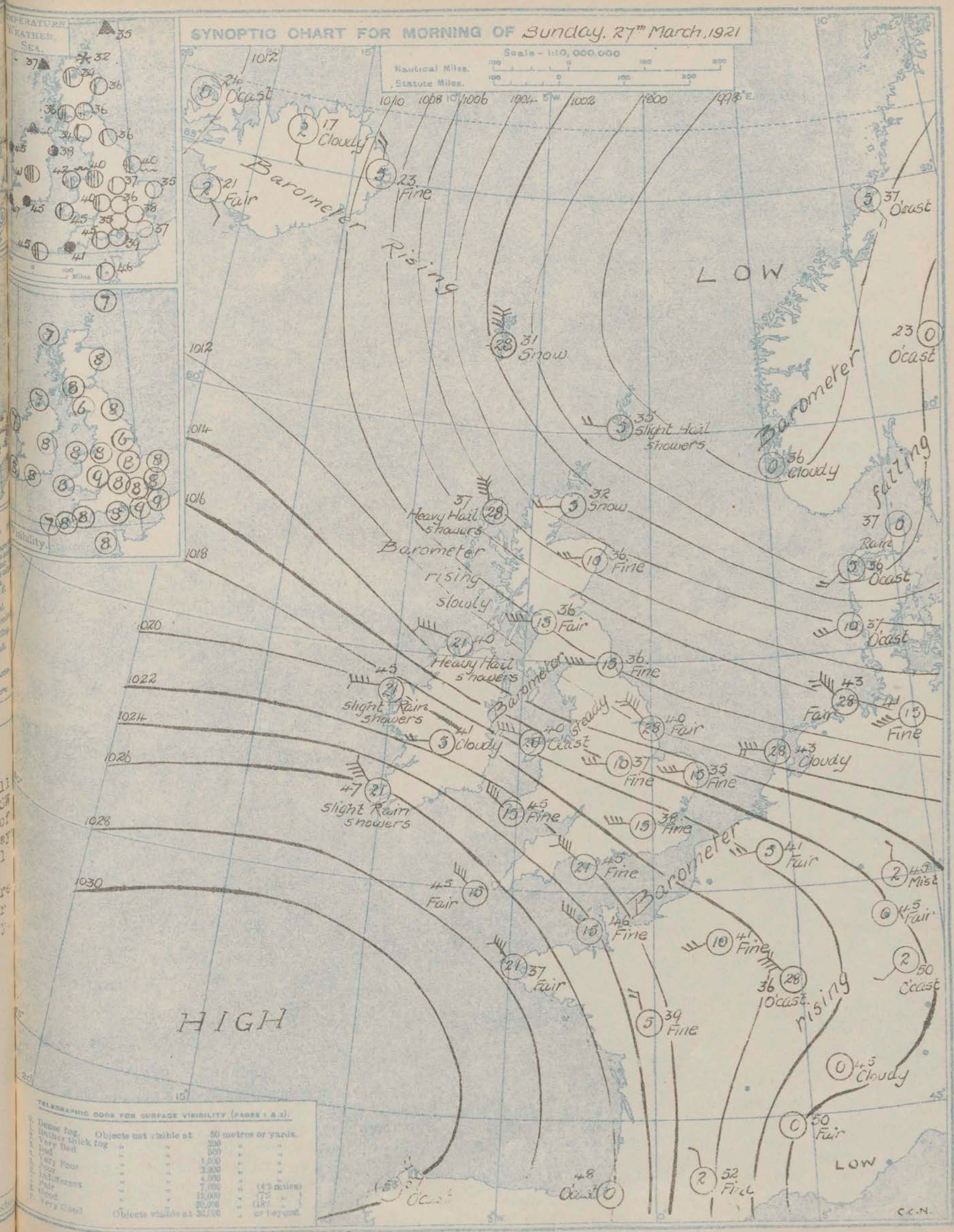
EXPLANATION.

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. snow. sleet. hail. fog. mist. T thunder. ₹ thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

GENERAL INFERENCE from observations received up to 9h

A depression over Southern Norway will move E. or S.E. and for the next 24 hours fresh to strong N.W. winds and cold showery weather will continue with hail and thunder locally. A ridge of high pressure to the West of Ireland may possibly bring finer and warmer weather generally within the next two or three days.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Sunday 27th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Fresh to strong N.W. wind; varying amount of cloud by day probably cloudless at night, some showers, accompanied by thunder locally; good visibility; rather cold.	The wind will back to W. or SW in the course of the next two days and an interval of warmer and temporarily more settled weather is not unlikely
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	Strong N.W. wind; much cloud at times, passing showers accompanied by thunder locally; good visibility; cold.	


SYNOPTIC CHART FOR MORNING OF Sunday. 27th March, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
LOW
HIGH
LOW
Barometer Rising
Barometer falling
Barometer rising slowly
Barometer steady
Barometer rising
Heavy Hail showers
Slight Hail showers
Slight Rain showers
Heavy Hail showers
Snow
Fine
Fair
Cloudy
O'cast
Mist
Rain
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
Dense fog. Objects not visible at 50 metres or yards.
Very thick fog " " 200 " "
Very Bad " " 500 " "
Bad " " 1,000 " "
Very Poor " " 2,000 " "
Poor " " 4,000 " "
Indifferent " " 7,000 " (4·3 miles)
Fair " " 10,000 " (7·5 ")
Good " " 20,000 " (11·5 ")
Very Good Objects visible at 20,000 " or beyond.
C.C.N.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 36 — Sunday 27 MARCH

WEATHER, TEMPERATURE RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 26

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 25-26	Rainfall. Day. 9h-18h. 26	Sunshine. Sunrise to Sunset. 26
Scotland.	Banff	b	b. ep. bc	52	32	-	1	8·3
	Morecambe ...							
England, N.E.	Harrogate	bc	b. bc	47	38	3	-	3·5
	Skegness	0	or. b	49	42	0·4	3	0·3
England, E.	Lowestoft ...	c. m	or. c	49	36	-	1	0·4
	Felixstowe	bcm	bcm	54	35	-	1	3·0
	Southend-on-Sea...	nw. c. or	or. o. c	56	37	-	0·2	2·9
England, S.E.	Tunbridge Wells	c. bc	0	56	34	-	-	3·9
	Margate	b. bc	bc. or	54	41	-	1	4·4
	Ramsgate	*	*	55	39	-	-	5·1
	Folkestone	bc	c. or. o	58	39	-	1	5·5
	Hastings	bc	bc. ob	57	43	-	1	3·2
	Eastbourne	bc. c	or. o. c	56	38	-	0·3	5·1
	Brighton	c. bp. o	o. c	54	34	-	0·2	4·6
	Worthing	b. bc	c	55	36	-	-	4·9
	Portsmouth (S'fasea)	*	*	50	38	-	-	2·3
	Bournemouth ...	o	bc. b	47	35	-	-	2·0
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 25-26	Rainfall. Day. 9h-18h. 26	Sunshine. Sunrise to Sunset. 26
England, N.W.	Blackpool	c	bc	49	40	1	-	5·4
	Southport	o. c. bc	bp. bc	50	40	1	0·3	5·7
Midlands.	Leamington Spa...	o. c. b	c	50	35	1	-	2·0
	Bath	r. o	o. c. bc. b	51	40	1	-	2·9
Wales.	Rhyl	c. bc	bc. r	50	39	2	2	4·7
	Colwyn Bay ...	*	*	50	39	3	-	5·6
	Llandudno	o	bc. c	49	38	2	2	4·9
	Aberystwyth ...	r. cr	c. c. o	48	42	3	-	5·5
England, S.W.	Weymouth	od. o	bc. b	38	36	3	?	2·3
	Torquay	c	c. bc. b	54	39	0·3	-	4·6
	Penzance	o. c. bc	bc	50	43	1	-	6·6
	Bude	rc. bc	b	50	38	2	-	4·4
	Ilfracombe	o. c. bc	bc	51	40	1	-	4·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h.	Weather. 13h-18h.	Weather. 18h-1h.	Weather. 1h-7h.	Max. Temp. Day °F.	Min. Temp. Night °F.	Min. on Grass °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew ...	p	p	p	p	48	34	25	0·6	2	4·5
Eskdalemuir	h or hr	S or RS	S or RS	S or RS	44	31	29	3	3	3·5
Valencia (Cahire'r) ...	b	h or hr	h or hr	p	48	43	40	1	0·5	6·3
Baldonnel	p	p	b or bc	c	48	35	30	0·6	-	7·2
Manchester (Rlex. Pk.)	oo	c	p	p	50	38	33	-	4	*
Ross on Wye... ...	c	c	b or bc	b or bc	51	36	27	0·3	0·1	2·6
Falmouth	r or d	b or bc	p	b or bc	51	40	34	0·3	0·1	5·1
Calshot (Hants)... ...	r or d	oo	b or bc	b or bc	49	35	*	0·1	-	0·8
Lympne (Folkestone) ...	c	r or d	f or m	b or bc	56	31	28	1	-	5·4
Aberdeen	b or bc	c	b or bc	b or bc	50	34	30	TRACE	-	8·5
Howden	oo	c	p	c	50	35	29	-	1	3·2
Cranwell (Lincs)	p	c	p	b or bc	47	33	29	0·2	0·2	1·8
Felixstowe	c	oo	h or bc	b or bc	53	36	34	0·6	-	3·2
Shoeburyness	r or d	r or d	b or bc	b or bc	55	35	31	0·5	-	2·6
Benson	c	c	b or bc	b or bc	50	29	21	-	..	*
S. Farnborough ...	r or d	oo	b or bc	b or bc	52	32	25	TRACE	-	1·1
London (Kew Obsy.) ...	r or d	c	b or bc	b or bc	50	36	29	TRACE	-	0·7
Croydon	r or d	oo	b or bc	b or bc	51	34	29	0·1		*

WEATHER. (p 1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain ; i = intermittent ; — = "decreasing" ; + = "increasing" ; Kq = line squall ; h(r) = "hail" or "rain and hail" ; bc = cloud 0-5 ; oo = cloud 6-10.

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

SEA DISTURBANCE.

0 = no swell
1 = mod. swell
2 = heavy swell
} Calm or slight sea.

3 = no swell
4 = mod. swell
5 = heavy swell
} Moderate sea.

6 = rather rough sea.
7 = rough sea.
8 = very rough sea.
9 = mountainous sea.

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

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.									
Greenwich (Royal Observatory)	o. r. o	o	o. b. o. b	52	34	26	TRACE	1·4	41	64
City (Bunhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*								
Regents Pk. (botanical Gdns)	*	*	*	*	*	*	*	0·3	*	*
Camden Sq. (British Rainfall)	*	*	*	58	35	29	-	*	*	59
Kensington Palace	or.	o. c	*	50	35	29	0·2	*	51 (18h)	65
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.

27 & 28 MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset G.M.T.
Yarmouth...	5·42	11·59	6·15
	5·39	11·58	6·16
Greenwich	5·50	12·6	6·22
	5·47	12·5	6·23
Wick	5·58	12·18	6·40
	5·55	12·17	6·3
Valencia ...	6·31	12·47	7·4
	6·28	12·46	7·4

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.

The temperature failed to reach 60° in the South of England and in parts of Scotland only slightly exceeded 40°. Ireland and South-West England, with sunshine records exceeding 7 hours in many places experienced the brightest weather. There were showers of hail, rain, and sleet in the North but no very large totals were measured. At Liverpool there was a thunderstorm in the evening.

* 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 246/6 MONDAY 28TH MARCH 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.	Total 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.	Total Amt. 0-10.	Sea 0-9.
	18H. G.M.T. 27TH														18H. G.M.T. OF 27TH													
Renfrew	1012.5	+0	WNW	4	cps₀	45	65	8	1500	Cu	7	-	7	*	1013.5	+1	WSW	2	bc	41	85	7	2500	St Cu	2	A Cu	4	*
Eskdalemuir	1012.6	+3	NW	5	b	40	75	6	2500	Cu	3	-	3	*	1013.5	+2	WNW	4	bc	37	75	8	4000	Cu	2	A St	5	*
Valencia (Cahirc'n)	1026.2	-1	WNW	4	co	47	75	8	2500	St Cu	8	-	8	*	1024.0	-3	W	4	co/r	47	75	9	2500	St Cu	9	A St	10	3
Baldonnel	1020.2	+0	WNW	3	or₀	46	85	8	4000	St Cu	9	-	9	*	1019.0	-2	WNW	3	pr₀	46	85	8	1500	St Cu	5	A St	8	*
MANCHESTER (ALEX. PK.)	1016.0	+1	WNW	7	co/r	47	75	7	1500	St Cu	8	-	8	*	1016.4	+1	W	5	co/r	42	85	6	2500	St Cu	7	A St	10	+
Ross on Wye	1019.2	-1	WNW	6	co	50	65	9	4000	St Cu	7	-	7	*	1019.0	0	WNW	3	co+	46	75	9	4000	Cu Nb	3	Ci Cu	9	*
Falmouth	1024.9	-2	NW	5	bc	52	65	8	-	St Cu	5	-	-	*	1023.7	0	WNW	5	bc	47	75	8	-	St Cu	4	Ci	6	*
Calshot (Hants)	1020.5	-1	W	5	bc	49	65	8	4000	Cu	4	-	4	*	1019.7	+1	W	5	co+	48	75	8	2500	St	1	A St	10	3
Lympne (Folkestone)	1017.8	-2	WNW	6	bcv	49	65	9	2500	Cu	6	-	6	*	1017.6	0	W	4	co/r	45	75	9	2500	St Cu	4	Ci St	8	*
Aberdeen	1007.3	+2	NW	6	bc/s	42	65	9	4000	Cu Nb	4	-	4	*	1009.7	+2	NW	4	bc/s	38	75	9	4000	Cu Nb	1	-	1	3
Howden	1012.4	-1	WNW	6	co-	47	65	8	2500	Cu	4	A St	6	*	1013.7	+2	NNW	6	co+	44	65	8	2500	St	9	-	9	*
Cranwell (Lincs)	1015.3	-1	WNW	4	bc/r	43	85	7	1500	Cu Nb	5	-	5	*	1015.9	-2	W	2	co+	43	75	8	2000	Cu	2	Ci St	7	*
Felixstowe	1016.0	-4	NW	6	bc+	49	55	8	2500	Cu	4	-	4	*	1016.0	+1	NW	4	co/r	46	75	8	4000	Cu	7	-	7	3
Shoeburyness	1017.0	-2	WNW	5	bc+	51	55	7	5750	Cu	3	-	3	*	1016.5	-1	NW	3	bc/r	47	85	7	1500	Cu	5	-	5	*
Benson	1018.5	-1	WSW	4	bc+	49	55	7	-	St Cu	6	-	6	*	1018.2	0	WNW	4	pr₀	46	92	7	-	-	-	Ci	4	*
S. Farnborough	1018.9	-2	WNW	4	co	50	55	8	2500	Cu	8	-	8	*	1018.5	0	WNW	2	co	49	65	8	1500	St Cu	9	Ci St	10	*
London (Kew Obsy.)	1017.9	-3	W	5	co+	51	55	8	5750	Cu	7	A Cu	1	*	1017.9	0	WNW	4	co+	48	65	8	2500	St Cu	7	A Cu	9	*
Croydon	1018.6	-1	WNW	5	bc-	50	55	8	4000	Cu	5	-	5	*	1018.4	+1	WNW	5	co+	46	75	8	2500	St	6	Ci St	10	*
	1H. G.M.T. OF 28TH														7H. G.M.T. OF 28TH													
Renfrew	1008.8	-4	SSW	4	co/r	43	85	6	2500	St	10	-	10	*	999.0	-11	SSW	4	rr	43	92	5	1500	Nb	10	-	10	+
Eskdalemuir	1010.3	-35	SW	4	r₀r₀	37	97	6	1500	Nb	10	-	10	*	1002.2	-9	SW	5	r	38	92	5	1500	Nb	10	-	10	*
Valencia (Cahirc'n)	1015.8	-9	NW	4	d-	48	*	*	*	*	*	*	*	*	1009.4	-8	SW	6	r₀	50	92	7	1500	St Cu	10	-	10	5
Baldonnel	1015.1	-5	W	15	co/r	43	85	7	1500	St	10	-	10	*	1005.2	-6	SW	4	DD	47	92	4	1450	St	10	-	10	*
MANCHESTER (ALEX. PK.)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.1	-8	SW	3	r₀	42	85	8	1500	St	10	-	10	
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.4	-5	WSW	3	co+	44	85	8	2500	Nb	8	A St	10	*
Falmouth	1022.5	-2	WNW	3	r₀r₀	45	85	7	-	Nb	10	-	10	*	1016.7	-5	SW	4	DD	47	97	5	-	Nb	10	-	10	*
Calshot (Hants)	1020.0	-1	WSW	3	bc	42	97	8	-	St	*	-	10	*	1016.4	-4	SW	4	co+	45	92	8	1500	St	1	A St	10	1
Lympne (Folkestone)	1018.7	0	W	2	co	43	92	9	-	-	*	Ci	7	*	1016.1	-2	WSW	3	co	40	97	8	-	-	-	Ci	7	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	998.6	-7	SW	2	co+	40	85	6	-	-	-	A St	10	0
Howden	1013.5	-3	SSW	2	bc-	39	97	6	4000	St	3	A St	5	*	1004.6	-5	W	2	co+	43	85	7	5700	St	7	A St	9	*
Cranwell (Lincs)	1015.7	-1	W	1	co-	38	97	8	4000	St Cu	4	A St	6	*	1011.0	-4	SSW	3	co-	42	85	8	1500	St	10	-	10	*
Felixstowe	1017.0	0	W	3	bc+	41	85	8	-	-	-	Ci St	1	*	1015.0	-3	WSW	3	co+	42	92	7	-	-	-	A St	10	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	-2	SW	3	co	43	85	7	4000	St Cu	6	Ci	8	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.2	-3	SSW	3	co+	42	92	7	-	St Cu	10	-	10	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.2	-4	WSW	3	co	41	92	8	2500	St Cu	1	A St	10	*
London (M.O. at 1H.)			*	*	*	43	*	*	*	*	*	*	*	*	1014.8	-4	SW	3	co+	42	92	8	4000	St	7	A St	9	*
Croydon	1018.9	-2	W	4	bc+	42	97	8	2500	St Cu	4	A Cu	5	*	1016.1	-3	SSW	4	co+	40	97	8	-	-	-	Ci 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 in in. ‡ Day.	Rainfall in in. ‡ Night.	Temp. Max. Day °F.	Temp. Min. Night °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
	18H. G.M.T. of 27TH					7H. G.M.T. of 28TH									24 HOURS ENDED 7H. 28TH							27TH
Lerwick																						*
Stornoway	1005.0	34	NW	5	S	996.9	-8	35	0	S	2	-	co+	1		1	40	33	S or RS	S or RS	c	*
Castlebay (Barra Is)	1010.0	41	W	2	co+	992.9	-10	42	+5	-	0	-	or₀	0	1	3	43	38	b or bc	c	p	6.3
Malin Head	1012.8	42	WNW	3	pr₀	992.2	-2	49	+9	W	4	·	r+	5	0.2	5	?	42	c	r or d	p	5.1
Blacksod Point	1013.2	43	W	3	rr	995.7	10	48	+8	SW	4	-	co	4	3	4	45	42	S or RS	r or d	r or d	3.2
Roche's Point	1017.8	42	W	3	co	999.3	-6	50	+5	SW	5	-	or₀r₀	1	0.1	0.6	50	41	p	p	r or d	*
Birr Castle	1022.7	48	NW	3	co	1011.1	5	50	+5	SW	4	-	ad₀d₀	3	Tr.	6	51	45	p	p	b or bc	*
Donaghadee	1021.6	49	W	3	co-	1006.6	*	49	+8	SW	3	-	co/r	*	*	1	49	40	c	c	r or d	4.9
Liverpool (Bidston)	1016.1	45	WNW	3	pr₀	1003.2	-8	45	+7	WSW	1	-	co+	3	2	2	47	41	p	p	r or d	*
Holyhead	1017.0	43	W	4	co	1007.0	-7	43	+3	SW	3	-	co	3	0.3	0.2	46	42	b or bc	c	co	4.7
Pembroke (St. Anne's Head)	1018.2	46	W	4	r₀+	1006.4	-10	47	+5	SW	6	-	rr	4	1	4	50	43	p	c	p or d	7.3
Scilly (St. Mary's)	1021.8	47	W	5	co+	1011.9	-8	48	+3	SW	5	-	2fo	6	-	2	48	44	b or bc	b or bc	p or d	4.6
Jersey (St. Aubin)	1025.1	49	WNW	5	co+	1016.4	-6	49	+4	W	6	-	co/r	7	0.4	1	53	45	b or bc	p	r or d	8.2
Portland Bill	1022.4	49	W	5	bc	1019.8	-1	47	+1	W	5	-	co	3	-	-	52	44	c	c	c	10.3
Dungeness	1021.5	47	NW	5	bc+	1016.6	-6	47	+2	W	5	-	co+	3	-	-	49	44	b or bc	c	c	*
Wick	1017.4	48	WSW	4	co+	1015.7	-2	44	+11	WSW	4	2	bc+	4	-	-	56	36	b or bc	c	b or bc	*
Nairn	1007.5	38	NW	3	PS	995.4	-7	37	+5	SSW	3	-	co-	0	3	2	41	31	S or RS	S or RS	c	*
Leith	1010.0	36	W	1	c	995.0	*	41	+2	W	1	-	cg	1			41	32	bcprsq	cprsq	cgo	4.0
Tynemouth	1011.8	42	NW	3	c	999.4	-4	42	?	SW	1	-	r	2	Trace		46	35	cb cb	b	cdod	*
Spurn Head	1012.0	43	NW	5	bc+	1003.5	-5	43	+7	SW	2	-	co	1	-	-	48	38	b or bc	c	oo	*
Yarmouth (Gorleston)	1013.2	46	NW	6	bc	1004.8	-4	43	+3	WSW	5	-	co	3	-	-	49	36	b or bc	b or bc	oo	*
Clacton-on-Sea	1014.2	45	NW	6	bc-	1013.7	-3	40	+5	W	3	-	co+	1	0.6	-	50	35	c	b or bc	c	9.2
Nottingham	1016.0	46	WNW	4	bc/r	1014.5	-3	42	+6	WNW	3	-	co+	1	0.6	-	51	40	p	p	c	8.9
	1016.8	43	WNW	4	pr₀	1016.1	*	43	+5	SW	3	-	co+	*	0.3	-	49	38	p	p	c	5.3

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

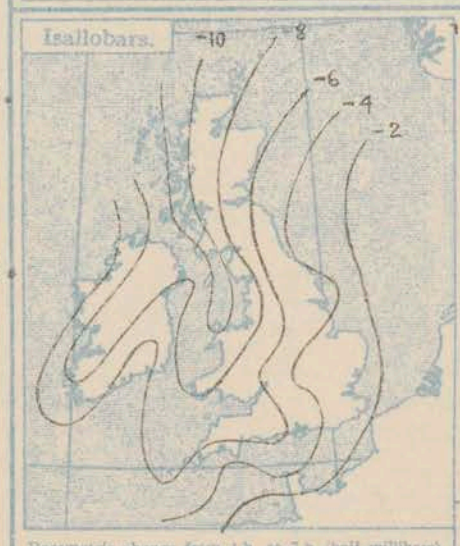
M.O. FORM 2370.

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

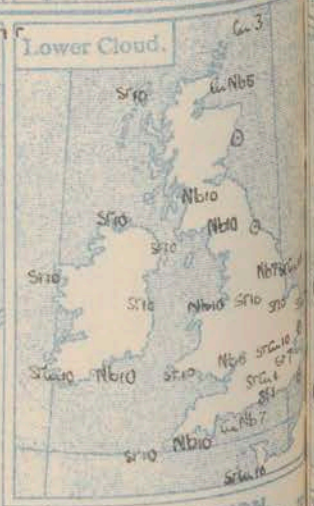
Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Cloudy or overcast.	Good.	Slight
2. E. England	Cloudy or overcast.	"	"
3. E. Midlands	Mainly overcast.	Indif.	-
4. W. Midlands	Overcast.	Good.	-
5. S.W. England	Cloudy or dull, local drizzle or rain.	Indif.	R. Rough
6. South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

Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
7	24th	0218	46	45
3	24th	1015	47	47
6	27th	1340	49	50
5	28th	0805	46	47
3	28th	1000	47	?



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



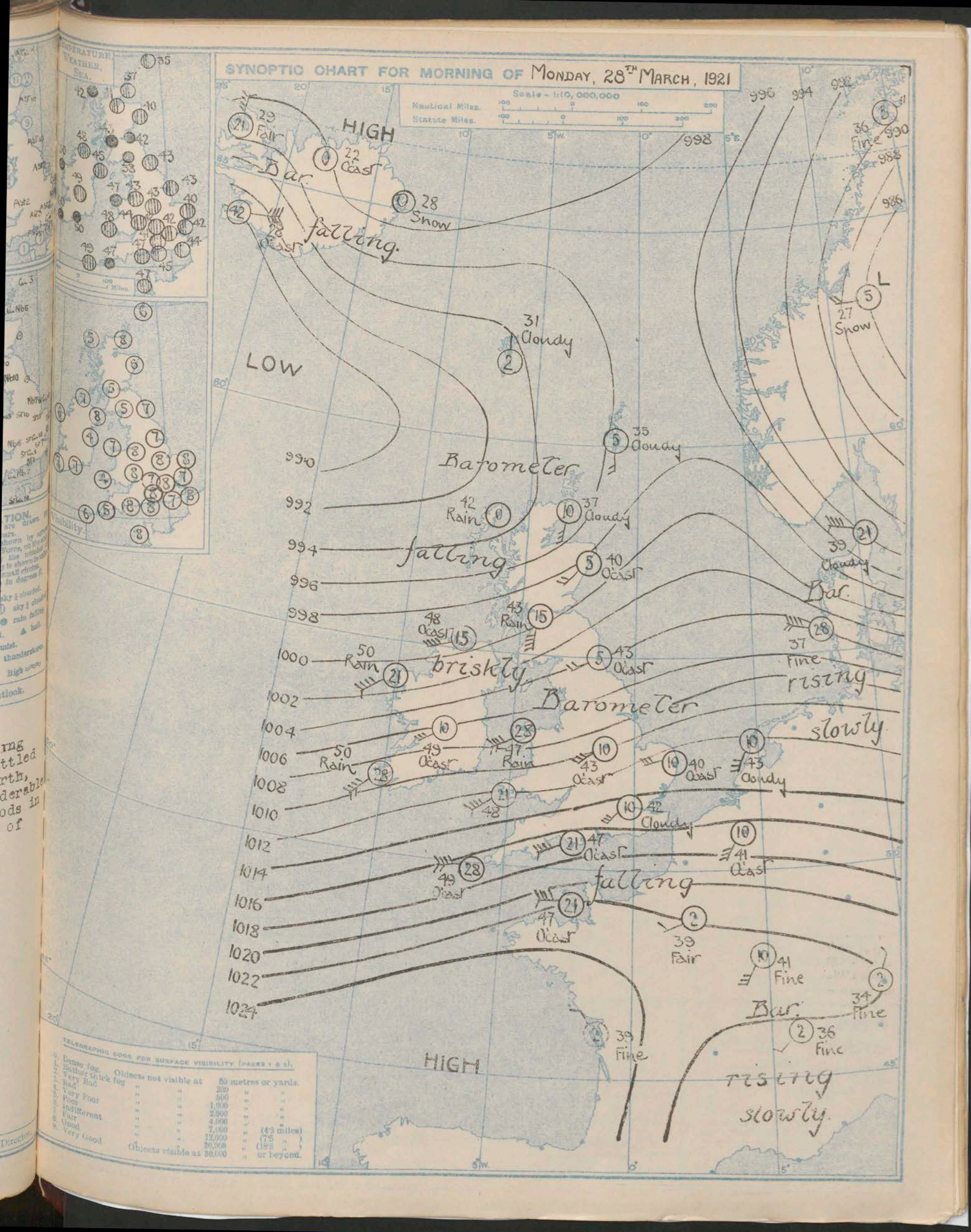
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees F.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

GENERAL INFERENCE from observations received up to 9h.

A deep depressions South of Iceland will move Eastwards causing strong winds or gales from a Westerly direction in all districts with much cloud and intermittent rain.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Monday 28th March, 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 10. N.E. England	Westerly wind, strong to a gale; much low cloud, intermittent rain; visibility mainly fair to good; moderate temperature.	Continuing very unsettled in the north, but considerable fair periods in the South of 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	Westerly wind, strong to a gale; much low cloud, intermittent rain or hail; visibility mainly fair to good; becoming somewhat colder.	
19. S.E. Ireland 20. S.W. Ireland	Same as 1 - 10.	

Meteorological Office: Air Ministry, Kingsway, London, W.C.2. Forecasts issued at 21.55. G. C. SIMPSON, F.R.S., Director.


SYNOPTIC CHART FOR MORNING OF MONDAY, 28TH MARCH, 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
HIGH
Bar.
falling.
LOW
Barometer
falling
briskly
Barometer
rising
slowly
falling
Bar.
HIGH
Bar.
rising
slowly
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 (4·3 miles)
7. Fair " " 12,000 (7·5 ")
8. Good " " 20,000 (12·5 ")
9. Very Good Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 84.

MONDAY 28TH MARCH 1921

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	bc.sp	bc.bc	42	33	1	1	4·3
Scotland	Monrose							
England, N.E.	Harrogate	c.bc.bh	bc.bc.c	47	35	3	-	3·5
England, N.E.	Skegness	bc.o	c.b	49	33	-	-	7·2
England, E.	Lowestoft	bc.cps	cpr.bc	50	35	-	0·2	8·0
England, E.	Felixstowe	b3	cm	51	36	-	-	8·3
England, E.	Southend-on-Sea	b.bc	bc.cp	53	38	-	0·2	9·1
England, S.E.	Tunbridge Wells	b	b.bc	52	32	-	-	8·9
England, S.E.	Margate	b	bc.b	51	40	-	-	8·1
England, S.E.	Ramsgate	*	*	52	34	1	-	8·9
England, S.E.	Folkestone	b	bcp.c.o	52	36	-	TRACE	9·2
England, S.E.	Hastings	b	b.bc.o.c	52	34	-	-	9·2
England, S.E.	Eastbourne	bc	c.o	52	34	-	-	7·5
England, S.E.	Brighton	b	b.bc.o	53	34	-	-	8·5
England, S.E.	Worthing	b.bc.c	c	53	35	-	-	9·7
	Portsmouth (S'thsea)	*	*	53	34	-	-	9·6
	Bournemouth	*	*	52	36	-	-	8·3
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 26TH-27TH	Rainfall. Day. 9h-17h. 27TH	Sunshine. Sunrise to Sunset. 27TH
England, N.W.	Blackpool	cpr	c	47	41	1	0·4	3·0
England, N.W.	Southport	berh	r.bc.o.c	46	39	1	2	4·8
Midlands	Leamington Spa	c	ch.c	50	36	-	0·3	5·9
Midlands	Bath	b.bc	b.bc.c.o	51	36	-	-	7·4
Wales	Rhyl	bc.c.bc	bc.cp	47	39	1	1	4·7
Wales	Colwyn Bay	*	*	49	38	1	-	6·0
Wales	Llandudno	c	c.b.r.o	49	40	1	1	4·4
Wales	Aberystwyth	o.c.b	b.bc	48	41	-	-	6·0
England, S.W.	Weymouth	bp.bc	p.bc.c	53	36	-	1	6·2
England, S.W.	Torquay	bcq.c	q	55	37	0·2	0·2	8·7
England, S.W.	Penzance	c.bc	bc	53	43	1	-	8·7
England, S.W.	Bude	c.bc	b	51	33	-	-	6·6
England, S.W.	Ilfracombe	c.bc	bc	49	44	0·1	-	7·1

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-13h 27TH	Weather. 13h-18h 27TH	Weather. 18h-1h 27TH-28TH	Weather. 1h-7h 28TH	Max. Temp. Day. °F.	Min. Temp. Night. °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h. mm.	Rainfall.† Night. 18h-7h. mm.	Sun. Hours.
Renfrew	S.or rs	p	r or d.	r or d	46	39	35	0·5	1	7·5
Eskdalemuir	b or bc	c	r or d	r or d	44	34	30	0·1	3	7·0
Valencia (Cabire'n)	p	p	p	r or d	49	43	43	0·5	3	3·9
Baldonnel	p	b	r or d	r or d	50	41	34	1	1	4·0
MANCHESTER (ALEX. PK.)	p	p	p	p	48	41	37	1	1	*
Ross on Wye	c	p	c	c	52	40	34	TR.	-	6·3
Falmouth	b.or bc	b or bc	c	r or d	53	43	41	-	2	8·3
Calshot (Hants)	p	c	b or bc	b or bc	51	41	*	TR.	-	9·6
Lympne (Folkestone)	b or bc	p	c	c	51	37	34	TR.	-	8·7
Aberdeen	S or rs	S or RS	c	c	44	34	29	1	-	8·2
Howden	c	c	c	oo	50 ~~49~~	39	32	-	-	6·7
Cranwell (Lincs)	h.or hr	b or bc	b or bc	c	47	36	33	2	-	6·3
Felixstowe	b.or bc	h or hr	b or bc	b or bc	50	36	36	0·1	-	8·8
Shoeburyness	b.or bc	b or bc	c	c	53	40	36	0·2	-	8·8
Benson	c	b or bc	c	c	50	39	29	0·6	-	*
S. Farnborough	c	oo	oo	oo	53	37	33	-	-	7·4
London (Kew Obsy.)	b or bc	c	b or bc	b or bc	52	41	35	-	-	8·9
Croydon	c	b or bc	b or bc	c	52	40	36	-	-	*

WEATHER. (p 1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

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- 3·5
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

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 % 1 h. G.M.T.	Humidity % 9 h. G.M.T.
	24 HOURS ENDED 9H G.M.T. 28TH							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	bc co	o p o	o b, ⊕	53	39	30	-	8·7	51	45
City (Burhill Row)	*	*	*	*	*	*	*		*	*
Westminster (St. James's Park)	*	*								
REGENTS PARK (BOTANIC GDNS)	*	*	*	*	*	*	*	7·8	*	*
Camden Sq. (British Rainfall)	*	*	*	53	40	38	1	*	-	74
Kensington Palace	bc.o	c.o p	*	53	39	33	1	*	67 (18h)	84
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.

28TH & 29TH MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·39	11·58	6·17
	5·36	11·58	6·19
Greenwich	5·47	12·5	6·36
	5·45	12·5	6·35
Wick	5·53	12·17	6·40
	5·52	12·17	6·42
Valencia	6·28	12·46	7·4
	6·26	12·46	7·6

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.

Little or no rain fell at most stations in the South and east of England but in Scotland and Ireland there were some moderately large falls - 7 mm at Malin Head and 5 mm at Roches Point. Sleet or snow fell locally in the North. There was plenty of bright sunshine, especially in the South-East of England where some coast stations had nearly 10 hours. The temperature rose to between 40° and 50° generally and touched 55° at Torquay.

* 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. 21,677 ...Tuesday, 29th March......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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 28th														18H. G.M.T. OF 28th													
Renfrew	990.1	-8	SW	4	orr	49	92	6	800	Nb	10	–	10	*	985.2	-1	W	4	co/r	45	85	8	1500	StCu	5	ASt	10	*
Eskdalemuir	992.3	-8	SW	7	orr	46	97	5	1500	Nb	10	–	10	*	985.2	-8	WSW	6	rr	45	94	5	800	Nb	10	-	10	*
Valencia (Cahirc'n)	1000.0	-8	WSW	6	or	48	92	7	800	St	10	-	10	*	999.1	-1	W	6	co/r	44	75	8	2500	StCu	5	ACu	4	6
Baldonnel	996.3	-8	SW	5	orr₀	51	85	6	~~805~~	St	10	-	10	*	992.4	+3	W	3	rr	41	92	4	1500	St	10	-	10	*
Manchester (Alex Pk)	1000.5	-8	WSW	7	co	53	75	9	1500	StCu	10	-	10	*	994.0	-8	SW	6	d₀d₀	50	85	8	1500	StCu	10	-	10	*
Ross on Wye	1005.5	-6	W	5	co	52	85	8	2500	Nb	9	ASt	10	*	999.0	-4	SW	4	d₀	49	85	4	1500	Nb	10	-	10	*
Falmouth	1011.1	-6	WSW	7	oD	50	92	3	-	Nb	10	-	10	*	1003.5	-8	SW	8	D	50	85	4	-	Nb	10	-	10	*
Calshot (Hants)	1010.9	-6	SW	6	orr₀	49	97	4	800	Nb	10	-	10	*	1005.8	-5	SW	6	co/f	49	92	4	800	St	10	-	10	4
Lympne (Folkestone)	1011.7	-5	SW	6	orr₀+	46	85	8	800	Nb	10	-	10	*	1006.0	-4	SW	4	d₀d₀	46	94	1	<150	Nb	10	-	10	*
Aberdeen	988.8	-9	SSW	3	or-	44	97	5	1500	Nb	10	-	10	*	981.5	-8	SSW	3	co/r	50	85	5	1500	St	4	ASt	10	0
Howden	1000.0	-8	SSW	7	co	53	75	6	2500	St	5	A.St	10	*	998.3	-6	SW	6	co+	50	85	6	1500	St	10	-	10	*
Cranwell (Lincs)	1003.3	-8	~~EME~~ SW	?4	co+	52	75	8	1500	StCu	10	-	10	*	997.0	-5	SSW	5	co	51	75	8	1500	Cu	10	-	10	*
Felixstowe	1010.2	-7	WSW	5	or₀r₀	49	75	8	1500	Nb	8	A.St	10	*	1004.5	-4	SW	5	co	49	92	4	800	Nb	10	-	10	
Shoeburyness	1009.6	-5	SSW	7	co-	48	85	7	1500	Cu	6	A.Cu	9	*	1003.8	-4	SW	4	co	51	75	4	1500	Cu	9	-	9	*
Benson	1004.8	-5	SSW	4	bct	52	85	6	-	Nb	10	-	10	*	1002.0	-5	SW	5	bc+	51	85	4	-	St	10	-	10	*
S. Farnborough	1008.9	-6	SW	5	orr	49	97	7	1500	Nb	10	-	10	*	1004.1	-5	SW	6	co/r	50	85	4	1500	StCu	10	-	10	*
London (Kew Obsy.)	1009.1	-8	SSW	4	o/r	50	85	7	1500	Nb	9	A.St	10	*	1003.2	-6	SW	5	co	52	75	8	1500	StCu	10	-	10	*
Croydon	1010.6	-6	SW	5	orr₀	47	92	8	800	St	9	A.St	10	*	1004.8	-6	SW	6	co	51	85	8	800	St	10	-	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	Total 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	Total Amt. 0-10	Sea 0-9
	1H. G.M.T. OF 29th														7H. G.M.T. OF 29th													
Renfrew	988.6	0	WSW	4	bc	32	75	7	1500	StCu	5	-	5		985.6	0	SSW	3	bc+	35	75	7	1500	Cu	2	Ci	4	3
Eskdalemuir	988.0	0	SW	4	bc	34	85	6	2500	StCu	5	-	5	*	987.1	-1	SW	3	bc+	31	85	6	1500	St	3	-	3	*
Valencia (Cahirc'n)	992.9	-3	WNW	9	coll	42	*	*	*	*	*	*	*	*	993.7	+10	NW	4	co	40	75	9	2600	Cu	7	A.Cu	8	5
Baldonnel	990.8	-5	SSW	5	bc/s	35	85	8	2600	StCu	1	-	1	*	989.8	+3	W	3	co	33	92	8	800	StCu	10	-	10	*
Manchester (Alex Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	990.0	-4	S	4	od₀	36	85	8	800	St	8	Ci	10	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	993.0	-5	W	3	or	38	92	9	2500	Nb	8	-	8	*
Falmouth	1000.0	-3	W	5	bc/s	40	85	8	-	Nb	2	-	2	*	994.6	-8	SW	6	bc	43	75	8	-	StCu	2	-	2	*
Calshot (Hants)	999.2	-3	SW	5	or₀	44	75	4	800	Nb	10	-	10	*	996.6	-4	SW	3	co/r	42	85	8	-	-	-	A.St	7	1
Lympne (Folkestone)	999.9	-4	SW	8	rr	45	94	4	225	Nb	10	-	10	*	994.4	-1	SSW	4	R	43	92	9	450	Nb	10	-	10	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	982.9	+1	SSW	3	bc	36	85	8	4000	Cu	2	-	2	0
Howden	992.2	0	SW	1	co+	41	85	6	2500	St	10	-	10	*	990.6	+1	SSE	1	co+	36	92	8	4000	St	4	CiCu	7	*
Cranwell (Lincs)	994.5	0	W	1	co/r	41	92	8	1500	Nb	10	-	10	*	992.6	-1	S	3	bc	37	92	8	2500	Cu	2	Ci	3	*
Felixstowe	998.4	-4	WSW	6	rr	44	94	5	1500	Nb	10	-	10	*	997.6	-1	SW	4	co-	43	92	7	-	-	-	Ci.St	7	4
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	-	*	996.6	-1	SW	4	co-	44	85	6	2500	Cu	6	-	6	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	994.9	-1	S	3	bc-	37	92	8	-	StCu	2	Ci	3	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	995.7	-2	SW	2	bc+	39	86	8	-	-	-	A.Cu	6	*
London (M.O. at 1H.)	998.2	*	*	*	*	44	*	*	*	*	*	*	*	*	995.7	-2	SSW	3	co-	43	85	8	2500	StCu	4	Ci	7	*
Croydon	1000.8	-5	W	4	co/r	41	97	8	800	St	10	-	10	*	997.0	-3	SSW	3	co/r	41	86	8	-	-	-	A.St	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.	‡ 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. † Day	Rainfall Night	Temp. Max. Day °F	Temp. Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
	18H. G.M.T. of 28th					7H. G.M.T. of 29th									24 HOURS ENDED 7H. 29th							28th
Lerwick	982.5	43	S	2	co/r	980.7	+5	41	+6	S	3	-	co+	1	2	6	47	38	b. or bc	p	r or d	*
Stornoway	978.0	46	WSW	1	r₀r₀	948.4	+3	38	-4	S	1	-	co	0	3	6	47	35	P	p	p	0.0
Castlebay (Barrals)	982.0	42	WNW	5	pr₀	980.4	+1	38		NW	2	-	co/r	4	2	4	49	37	r. or d	r or d	r or d	0.0
Malin Head	984.8	41	W	5	co-	983.4	0	37	-11	WSW	3	-	opr₀	5	4	0.4	49	34	r. or d	p	h or hr	0.0
Blacksod Point	991.6	41	W	4	PR-	988.5	+1	40	-10	NW	2	-	bc/s	1	8	2	51	34	r. or d	p	S or RS	*
Roche's Point	998.9	44	W	5	bc/r	991.5	0	36	-14	NW	3	-	co/s	0	1	7	46	33	r. or d	r or d	S or RS	*
Birr Castle	996.4	43	W	3	co/r	990.6	*	31	-18	W	1	-	bc/s	*	12	4	50	31	r or d	r or d	S or RS	0.4
Donaghadee	990.0	45	WNW	5	R	989.1	+1	32	-13	W	1	-	bc	0	4	trace	53	31	P	r or d	b or bc	*
Liverpool (Bidston)	992.5	50	SW	5	co	988.6	-3	35	-8	SSE	2	-	bcv	3	0.2	4	53	34	o	oo	r or d	0.0
Holyhead	992.9	46	SW	6	rr	984.8	-1	38	-9	W	4	-	co/r	4	3	7	50	33	r. or d	f or m	h or hr	0.0
Pembroke (St. Ann's Head)	998.4	44	WSW	4	pr₀	991.3	0	42	-6	WSW	3	-	PH	6	1	4	49	38	o	p	h or hr	0.0
Scilly (St. Mary's)	1003.8	50	SW	6	PR+	994.7	-7	45	-4	W	6	-	PR	8	1	4	54	44	o	p	c	0.0
Jersey (St. Aubin)	1011.6	50	SW	5	r₀r₀	999.3	-2	45	-2	WSW	5	-	co/r	3	1	4	51	42	r or d	r or d	r or d	0.4
Portland Bill	1005.9	49	SW	8	co	995.4	-3	46	-1	WSW	8	-	bc	8	0.4	8	50	44	o	oo	b or bc	*
Dungeness	1006.0	48	SW	8	rr	997.1	-2	46	+2	W	5	-	co-	5	1	4	54	44	P	r or d	b	*
Wick	979.3	44	ESE	3	dd	978.7	0	36	-1	SW	2	-	co	1	8	2	44	34	P	r or d	c	*
Nairn	977.4	48	-	0	r	979.6	*	36	-5	W	1	-	c	1	2	2	50	34	cdg	odg	ocqpg	0.0
Leith	982.7	52	SW	6	p	984.4	0	35	-7	SW	2	-	bc	2	1		52	34	doqp	oqdur	deq.bc	*
Tynemouth	985.0	51	SW	4	pr₀	989.8	+1	36	-7	SSW	2	-	bcv	1	0.2	0.4	54	34	P	p	b or bc	*
Spurn Head	994.1	51	SW	6	co	991.2	0	40	-3	SSW	5	-	bc	4	0.2	1	51	36	c	p	oo	*
Yarmouth (Gorleston)	1001.2	51	SW	6	co+	995.8	-1	42	+2	SW	4	-	co-	0	-	-	51	41	c	oo	c	1.2
Clacton-on-Sea	1003.3	49	SW	5	co	996.2	0	44	+2	SW	4	-	co/r	4	-	3	51	42	c	c	r or d	0.0
Nottingham	996.3	51	SW	5	co	991.6	*	39	-4	SW	3	-	bc-	*	TR.	0.6	54	37	P	oo	p	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.

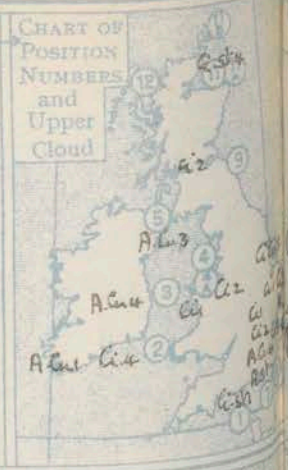
M.O. FORM 2370.

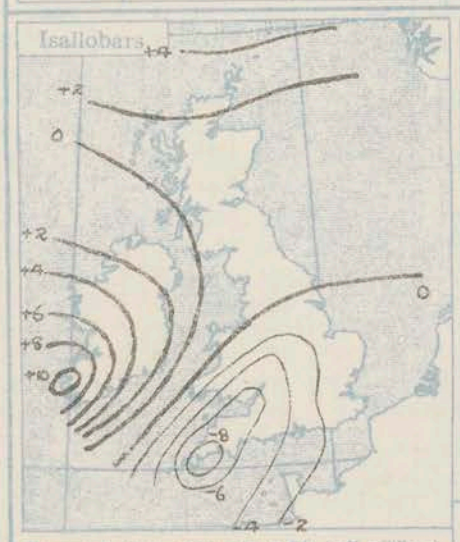
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 29.3.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull, heavy rain locally	Good	Mod.
2. E. England	Dull	"	"
3. E. Midlands	Fair	"	"
4. W. Midlands	Drizzle	"	--
5. S.W. England	Heavy showers	"	V.Rough
6. South Wales	Heavy hail showers	Fair	R.Rough
7. North Wales	Dull	Good	Mod
8. N.W. England	Fair	Excell.	"
9. N. Midlands	Dull	Good	---
10. N.E. England	Drizzle	"	Mod
11. E. Scotland	Fair	"	Slight
12. S.W. Scotland	Fair	Indiff.	"
13. Isle of Man	Fair	Good	"
14. N.& N.W. Scotland	Dull	Good	"
15. Hebrides	Dull	Indiff.	Mod.
16. Orkneys and Shetlands	Dull	"	Slight
17. N.W. Ireland	Fair	Fair	"
18. N.E. Ireland	Fair	Good	"
19. S.E. Ireland	Dull	Excellt.	"
20. S.W. Ireland	Dull, snow lying.	"	Mod.

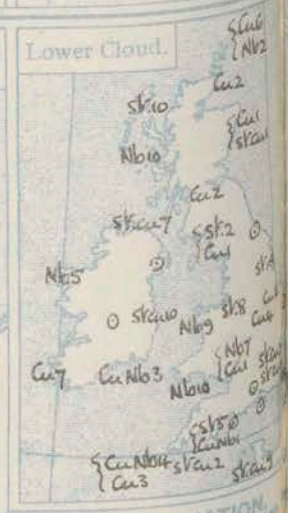
Temperature reported from Coastal and Cross Channel Steamers.

Position Number	Date	Time G.M.T.	Sea °F	Air °F
2	29th	0430	47	43
7	29th	0258	48	45
4	29th	0430	39	40





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



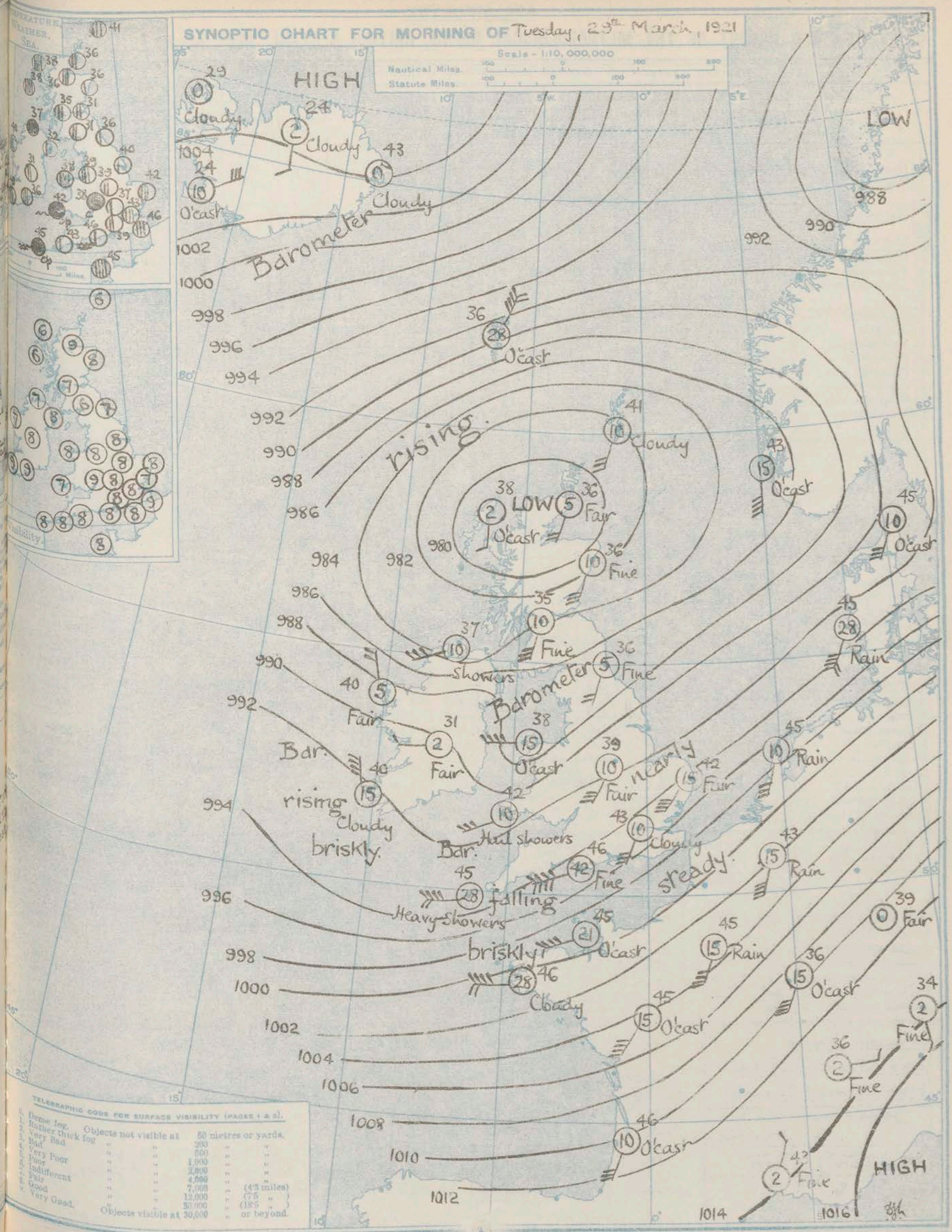
EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by flying with the wind. Force, on the 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees.
WEATHER SYMBOLS.—clear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

GENERAL INFERENCE from observations received up to 9h.

The depression centred near the Orkneys is filling up but a deep secondary now over the Irish Sea will cross England causing rain, local thunder, and probably snow during Tuesday, followed by a temporary improvement.

Temperature will be rather low for a day or two.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Tuesday 29th March 1921	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind S.W. veering later to North-West, moderate to fresh, strong at times; some rain, hail or snow, perhaps local thunder, improving on Wednesday; visibility fair to good; rather cold.	Rather cold f[illegible] a day or two wi[illegible] West to NorthWe[illegible] winds.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind N.W., moderate or fresh; variable sky, showers of rain, hail, or snow; visibility fair to good; rather cold.	
9. N. Midlands 10. N.E. England	Same as for 1 - 4.	
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N.& N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Winds between S.W. and N.W. light or moderate; fair at first, probably some rain later; visibility fair; rather cold.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind N.W., moderate, probably backing later; fair but local showers of rain, hail, or sleet; visibility fair to good; rather cold.	


SYNOPTIC CHART FOR MORNING OF Tuesday, 23rd March, 1921
Scale - 1:10,000,000
Nautical Miles
Statute Miles
HIGH
LOW
Barometer rising.
Bar. rising briskly.
Barometer nearly steady.
Bar. falling briskly.
Cloudy
O'cast
Fair
Fine
Rain
Hail showers
Heavy showers
showers
TEMPERATURE, WEATHER, SEA.
Visibility
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0. Dense fog. Objects not visible at 50 metres or yards.
1. Rather thick fog " " 200 " "
2. Very Bad " " 500 " "
3. Bad " " 1,000 " "
4. Very Poor " " 2,000 " "
5. Poor " " 4,000 " "
6. Indifferent " " 7,000 " (4·3 miles)
7. Fair " " 12,000 " (7·5 ")
8. Good " " 30,000 " (18·5 ")
9. Very Good. " " 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 88... Tuesday 29th March 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 27th-28th	Rainfall. Day. 9h-18h. 28th	Sunshine. Sunrise to Sunset. 28th
Scotland.	Banff	od.r.o	od.o	50	33	1	1	0·2
	Montrose	o	o	53	35	-	0·2	0·1
England, N.E.	Harrogate	op	op	50	32	3	2	0·0
	Skegness	opy.c.	c.o	53	36	-	1	0·6
England, E.	Lowestoft ...	cq	ou	52	35	-	-	0·5
	Felixstowe	om	oq	51	39	-	-	0·2
	Southend-on-Sea...	o	o	52	40	-	-	0·0
England, S.E.	Tunbridge Wells	od	od	49	36	-	1	0·0
	Margate	c	c	52	39	-	-	0·1
	Ramsgate	*	*	49	35	-	-	0·5
	Folkestone	op	o	52	38	-	TRACE	0·0
	Hastings	o.c	oam	50	39	-	2	0·8
	Eastbourne... ...	or	or	51	41	-	2	0·5
	Brighton	od	od	49	42	-	1	0·0
	Worthing	bc.o	or	49	39	-	-	0·5
	Portsmouth (S'thsea)	*	*	51	43	-	0·2	0·0
	Bournemouth ...	*	*	50	41	-	TRACE	0·0
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 27th-28th	Rainfall. Day. 9h-17h. 28th	Sunshine. Sunrise to Sunset. 28th
England, N.W.	Blackpool	oq	orq	50	44	2	2	0·0
	Southport	or.o	ro	51	42	2	2	0·0
Midlands.	Leamington Spa...	c.b	c.b.o	49	39	0·2	-	0·0
	Bath	op	op	53	44	1	1	0·0
Wales.	Rhyl	cp	p.c	55	43	1	1	0·3
	Colwyn Bay ...	*	*	55	43	1	2	0·0
	Llandudno	op	rr	52	43	1	3	0·0
	Aberystwyth ...	r.o.c	c.o	50	46	1		
England, S.W.	Weymouth	od.o	od.o	51	44	0·2	0·3	0·0
	Torquay	oq pr	oq	53	43	0·1	0·2	0·0
	Penzance	o. bc	op.d	52	45	2	1	0·0
	Bude	r	r	51	45	2	0·2	0·0
	Ilfracombe	op	op	51	46	3	0·3	0·0

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather. 7h-18h 28th	Weather. 13h-18h 28th	Weather. 18h-23h 28th	Weather. 1h-7h 29th	Max. Temp. Day. °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew ...	r.ord	r r d	p	p	50	35	30	9	1	0·0
Eskdalemuir	r.ord	r r d	c	hr.hr	46	30	30	28	6	0·0
Valencia (Cahire'n) ...	r.ord	r r d	hr.hr	S or RS	51	33	32	3	13	1·1
Baldonnel ...	r ord	r r d	p	S or RS	51	33	30	4	1	0·0
Manchester (Alex Pk)	o	r r d	r ord	r ord	54	35	?	3	5	0·0
Ross on Wye... ...	p	p	r ord	r ord	52	38	30	0·1	4	0·0
Falmouth	r.ord	r r d	hr.hr	bo.bc	51	39	34		12	0·0
Calshot (Hants)... ...	r.ord	f or m	hr.hr	r ord	50	41	*	0·1	5	0·0
Lympne (Folkestone) ...	r.ord	r r d	r ord	r ord	47	41	40	1	4	0·5
Aberdeen	r.ord	oo	c	bo.bc	51	35	30	4	-	0·0
Howden	p	r r d	c	c	55	35		TRACE	1	0·9
Cranwell (Lincs)	p	p	p	bo.bc	54	36	*	0·3	0·3	0·5
Felixstowe	r.ord	oo	r ord	r ord	51	41	40	TRACE	2	0·3
Shoeburyness	r.ord	oo	r ord	r ord	52	41	39	0·1	5	0·1
Benson	c	c	c	c	53	36	29	0·1	2	*
S. Farnborough ...	r.ord	r r d	c	bo.bc	52	38	35	0·3	6	0·0
London (Kew Obsy.) ...	r.ord	oo	r ord	r ord	53	42	37	-	7	0·0
Croydon	r.ord	oo	r ord	r ord	51	40	37	0·1	7	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r = fair weather after rain. i = intermittent; − = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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.
	9. Hours ended on G.M.T. 29th							Yesterday		To-day.
Greenwich (Royal Observatory)	ob	ob	o or	52	41	35	6	0·3	83	68
City (Bunhill Row)	*	*	*	*	*	*	*	0·0	*	*
Westminster (St. James's Park)	*	*		54	40	32	1		54	76
Regent's Park. (Botanic Gdns)	*	*	*	*	*	*	*	-	*	*
Camden Sq. (British Rainfall)	*	*	*	53	39	35	6	*	*	70
Kensington Palace	bc	co	*	53	40	37	6·2	*	(18h)	70
Hampstead Observatory ...	*	*	*	*	*	*	*	0·0	*	*

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.

29th & 30th March 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth ...	5·36	11·58	6·18
	5·34	11·58	6·21
Greenwich	5·45	12·5	6·35
	5·43	12·5	6·37
Wick ...	5·51	12·17	6·42
	5·48	12·17	6·45
Valencia ...	6·26	12·46	7·6
	6·24	12·46	7·8

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

Exposure from ..... 19 h. 30 m.
to ..... 9 h. 45 m.

Stars.	Duration of Exposure. h.	Duration of Exposure. m.	Duration of Record. h.	Duration of Record. m.	%
Polaris	9	18	0	43	8
δ Ursae Minoris	9	15	0	6	1

NOTES ON THE WEATHER OF YESTERDAY.

Rain fell almost everywhere and the falls were heavy in places, 33 mm being measured at Eskdalemuir. In Ireland there were considerable falls of snow, and a thunderstorm occurred during the night at Valencia.

Little sunshine was recorded in any part of the Kingdom.

The day temperature rose to 50° to 55° at most stations, and ground frost occurred locally 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..... WEDNESDAY....30th MARCH....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	Total 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	Total Amt. 0-10	Sea 0-9
	13H. G.M.T. 29th														18H. G.M.T. OF 29th													
Renfrew	984.9	+3	SW	4	co	42	85	4	2500	St	5	A.St	10		992.4	+5	W	3	co.	44	75	8	2500	Cu Nb	9	·	9	*
Eskdalemuir	988.1	+1	SW	5	co+	41	55	8	4000	Cu	3	Ci St	7	*	991.6	+3	WSW	4	r°/	34	85	5	800	Nb	10	·	10	*
Valencia (Cahirc'n)	994.3	+9	NNW	4	co+	47	75	8	2500	St.Cu	7	-	7	*	1006.6	+8	N	5	co	44	75	8	2600	St Cu	4	·	4	6
Baldonnel	992.0	+1	WSW	3	co+	44	65	8	4000	St	6	A St	10	*	996.8	+6	NW	6	co+	45	75	4	1500	St Cu	10	·	10	*
Didsbury	992.1	+2	WSW	3	co	44	75	4	2500	Cu	4	A Cu	10	*	998.4	+2	WNW	1	co.	43	75	5	2500	Cu	1	Ci	4	*
Ross on Wye	992.2	-2	SW	1	opr°	43	55	8	2500	Nb	6	A.St	9	*	994.6	+3	WNW	2	cov	43	85	9	4000	Cu Nb	9	·	9	*
Falmouth	994.6	+5	WNW	6	opr°	42	75	8	-	Cu.Nb	7	-	4	*	1000.3	+6	W	4	co+	44	65	8	-	St Cu	5	A St	4	*
Calshot (Hants)	995.1	-1	SW	6	co+	50	75	9	1500	Cu.Nb	7	-	4	*	995.3	+1	SW	6	co+	43	75	8	1500	Cu	8	·	8	4
Lympne (Folkestone)	997.3	0	SW	6	bc ⊕	49	75	9	2500	Cu	6	-	6	*	998.4	+2	SSW	6	L(r)-	41	85	8	800	Nb	9	·	9	*
Aberdeen	985.9	+2	SW	3	or°	40	85	6	2500	Nb	10	-	10	*	990.3	+6	SW	3	co/r	39	92	6	2500	Nb	8	-	8	0
Howden	991.7	+2	SW	5	co+	46	65	7	2500	St	7	A.St	9	*	993.1	+2	SW	2	bc-	43	75	6	4000	St Cu	4	-	4	*
Cranwell (Lincs)	993.0	0	SW	4	co	49	65	8	2500	Cu	5	Ci St	6		994.4	+2	W	1	co/r	44	85	8	4000	St Cu	6	A Cu	8	4
Felixstowe	997.3	0	SSW	4	bc-	52	65	8	4000	Cu	3	A.St	4	*	998.2	+2	SSW	5	bc+	47	75	8	2500	Cu	2	-	2	
Shoeburyness	996.0	+2	SSW	5	bc-	52	55	7	4000	Cu	3	-	3	*	996.8	0	SW	6	pr°	44	85	4	800	Nb	4	Ci	8	*
Benson	993.4	-2	SSW	4	bc+	49	65	8	·	Cu	3	Ci	5	*	994.6	+1	S	4	pr°	43	85	8	-	Cu	6	-	6	*
S. Farnborough	994.7	-1	SSW	5	od°	47	75	8	1500	St Cu	10	-	10	*	995.3	+2	SSE	5	co+	44	75	8	2500	Cu	8	-	8	*
London (Kew Obsy.)	994.8	-3	SSW	4	bc+	52	65	8	2500	Cu.Nb	5	Ci	6	*	995.9	0	S	3	co/r	45	75	8	2500	St Cu	4	-	4	*
Croydon	996.2	0	SW	5	co/r	48	75	8	2500	Cu	6	Ci	4	*	997.0	+2	SSW	5	co/r	43	75	8	1500	Nb	4	A St	6	*
	1H. G.M.T. OF 30th														7H. G.M.T. OF 30th													
Renfrew	1003.5	+8	SW	2	bc	39	65	8	2500	St	1	·	1	*	1004.0	+4	WSW	1	co+	37	85	4	-	-	-	Ci St	7	3
Eskdalemuir	1001.5	+8	N	2	bc..	35	85	6	2600	St	2	·	2	*	1004.4	+6	SE	1	bc	34	75	4	-	-	-	Ci	2	*
Valencia (Cahirc'n)	1013.3	+6	WNW	5	co	47	*	*	*	*	*	*	*	*	1013.4	+2	SW	2	co-	45	85	8	2500	St Cu	3	A Cu	8	1
Baldonnel	1004.2	+8	W	4	bc-	39	85	6	4000	St	2	·	2	*	1011.4	+4	SW	2	co-	34	85	8	-	-	·	A.Cu	8	*
Didsbury	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.6	+4	NW	3	co·	40	75	4	5750	St Cu	7	·	7	*
Ross on Wye	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.4	+9	NNW	2	bcv	41	75	9	5750	St Cu	4	-	4	*
Falmouth	1005.5	+5	NW	6	opr°	44	75	7	-	Cu Nb	7	·	7	*	1012.2	+4	NNW	4	co	44	75	8	-	St Cu	7	-	7	*
Calshot (Hants)	1000.1	+2	SW	5	co/r	43	92	5	1500	St	9	-	9	*	1006.4	+4	NW	5	bc-	41	85	8	5450	St Cu	4	·	4	1
Lympne (Folkestone)	1000.4	+3	SW	3	co/r	37	85	9	1500	St Cu	7	·	7	*	1004.2	+5	NW	3	bc/r	38	97	8	2500	St Cu	1	-	1	*
Aberdeen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	+3	WNW	1	bc/r	37	85	8	-	-	-	Ci St	1	0
Howden	998.7	+4	·	0	fb-	25	97	3	-	-	-	-	-	*	1004.7	+4	NNW	1	co+	38	92	6	4000	St	6	A St	9	*
Cranwell (Lincs)	998.1	+3	NNW	1	or	40	97	4	1500	Nb	10	-	10	*	1005.3	+5	NW	2	bc/r	36	92	6	1500	St Cu	2	Ci	3	*
Felixstowe	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.8	+4	NW	2	co	40	92	4	4000	St Cu	10	-	10	2
Shoeburyness	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	+5	WNW	3	co/r	40	85	7	2500	St	9	·	9	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.1	+4	NW	2	co	38	94	4	-	St	5	A Cu	8	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.3	+4	WNW	2	bc/f	38	94	8	-	-	-	-	-	*
London (M.O. at 1H.)	1000.0	+4	*	*	*	40	*	*	*	*	*	*	*	*	1005.4	+8	-	0	ifb-	34	92	6	-	-	-	-	-	*
Croydon	1000.5	+4	SW	3	or°	38	94	4	800	St	8	·	8	*	1006.2	+8	WNW	3	bc/r	37	94	6	-	-	-	-	-	*

A St

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. Day	Rainfall mm. Night	Temp. Max. Day °F	Temp. Min. Night °F	Weather Morning	Weather Afternoon	Weather Night	Sunshine Hours
	18H. G.M.T. of 29th					7H. G.M.T. of 30th									24 HOURS ENDED 7H. 30th							
Lerwick	991.3	39	N	5	bc/s	949.6	+1	34	-4	W	3	-	or	2	2	1	44	33	c	s or Rs	p	*
Stornoway	994.0	41	N	6	PR	1002.4	0	39	+1	SW	1	-	co	0	6	-	45	34	b or bc	p	oo	4.1
Castlebay (Barra)	998.3	44	[illegible]	5	bc+	1004.9	0	45	+4	WSW	3	·	co	2	4	-	45	41	r or d	c	b or bc	0.7
Malin Head	995.4	44	NW	5	co+	1004.0	+2	44	+4	WSW	2	-	co+	1	2	-	45	34	p	p	c	3.4
Blacksod Point	1006.3	47	NW	4	bc-	1008.9	0	44	+4	-	0	-	co+	1	0.1	-	48	40	p	b or bc	c	*
Roche's Point	1001.2	46	WNW	5	bc+	1010.2	+3	44	+8	NW	3	-	co	0	1	-	50	40	c	p	b or bc	*
Birr Castle	1000.8	45	NW	4	co-	1011.4	*	38	+4	W	1	-	co+	*	3	-	48	36	s or Rs	p	c	5.3
Donaghadee	994.4	45	SW	4	bc-	1008.8	+5	38	+6	WNW	2	-	co-	3	2	-	45	34	oo	bc-	b or bc	*
Liverpool (Bidston)	993.1	43	W	2	co+	1004.4	+4	42	+4	NW	4	-	bcv	1	-	·	47	40	p	b or bc	b or bc	7.5
Holyhead	992.3	45	NW	4	co/r	1009.5	+6	44	+6	NW	6	·	co	4	1	-	46	43	p	f or m	b or bc	5.3
Pembroke (St. Ann's Head)	996.0	43	W	4	pr°	1011.2	+4	43	+1	NW	4	-	bc	3	12	1	46	33	t/r	b or bc	c	3.4
Scilly (St. Mary's)	1006.1	46	W	5	co+	1013.1	+5	45	0	NNW	5	-	bc-	6	1	2	48	41	p	c	b or bc	6.6
Jersey (St. Aubin)	1000.4	45	W	5	co/r	1009.6	+3	46	-1	NW	4	-	bc/r	3	1	1	52	41	p	r or d	p	7.5
Portland Bill	995.1	46	WSW	8	co-	1006.1	+6	45	-1	NW	5	-	bc-	3	2	-	49	40	oo	r or d	b or bc	*
Dungeness	994.2	45	SW	6	PH	1003.8	+4	39	-4	NNW	2	-	bc/r	4	0.4	6	50	38	b or bc	c	b or bc	*
Wick	990.4	41	NNW	5	pr°	1001.4	+2	36	0	WSW	3	-	co+	0	0.5	1	48	33	r or d	p	b or bc	*
Nairn	992.3	42	N	3	c	1003.5	*	38	+2	WNW	1	-	bc	1	2	2	43	35	cbrg	g prs. c	c. bc	1.4
Leith	992.2	40	SW	2	c	1006.1	+2	36	+1	SW	1	-	bc	2		1	48	34	bc. s b	bc. c bc	c b g bc	*
Tynemouth	992.1	44	WSW	1	co+	1005.2	+4	39	+3	NNW	3	-	bc/r	1	-	2	44	38	c	b or bc	p	*
Spurn Head	994.1	43	W	3	r°r°	1003.9	+5	38	-2	NNW	4	-	bc-	1	0.4	3	52	34	b or bc	r or d	p	*
Yarmouth (Gorleston)	996.0	48	SW	6	co	1003.1	+6	38	-4	W	3	-	co-	0	-	2	54	37	c	c	p	8.0
Clacton-on-Sea	996.8	48	SSW	5	bc+	1003.5	+6	39	-5	WNW	3	-	co/r	0	-	0.5	52	37	c	b or bc	p	6.5
Nottingham	993.8	43	ESE	1	co/r	1005.0	*	40	+1	NNW	2	·	bc+	3	3	1	51	34	c	r or d	p	6.4

1003.1/

* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § For code see page 3 † See footnote p. 5.

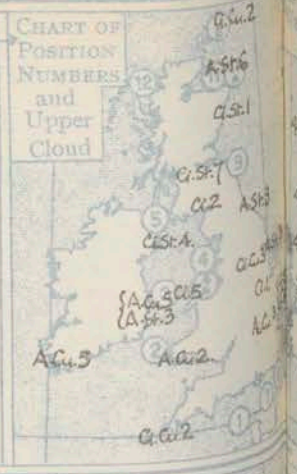
M.O. FORM 2370.

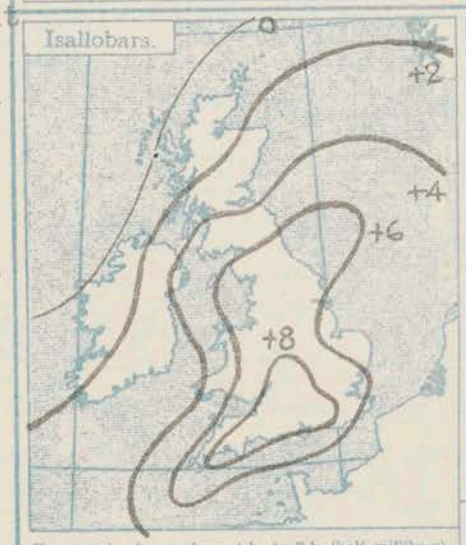
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 30.3.1921

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

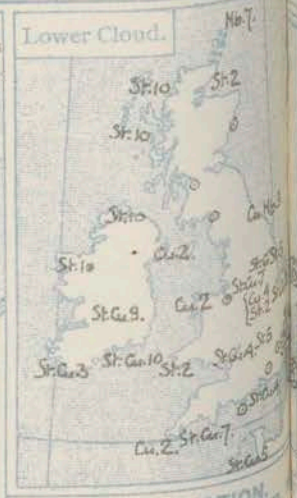
Temperature reported from Coastal and Cross Channel Steamers.

Position Number.	Date	Time G.M.T.	Sea °F	Air °F
4A	30th	0450	44	42
10	30th	0545	44	43





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

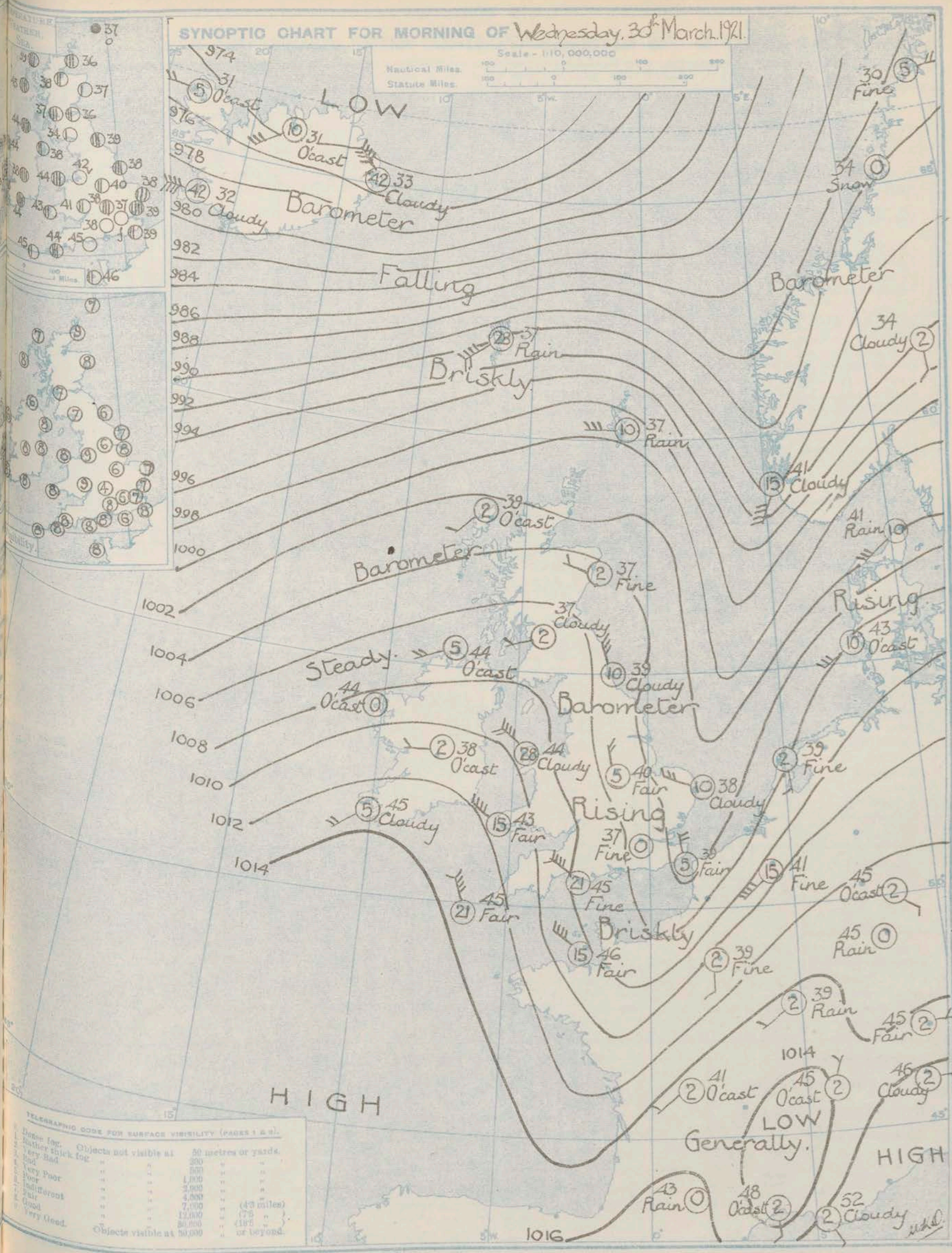


EXPLANATION.
BAROMETER.—Isobars are drawn at intervals of two millibars.
WIND.—Direction is shown by arrow flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.
TEMPERATURE is given in degrees.
WEATHER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

GENERAL INFERENCE from observations received up to 9h

A new depression over Iceland will probably cause some rain and a freshening Westerly wind over Scotland. Over England a wedge of high pressure will probably maintain fair or fine weather during Wednesday but unsettled conditions may spread from the North on Thursday. Temperature will rise somewhat but night frosts will occur.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Wednesday 30th March 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 10. N.E. England	Wind W. to N.W. moderate, fresh in places; fair or fine on Wednesday, probably less fair Thursday; visibility fair to good but some morning mist; mild during day, ground frost at night inland.	Westerly winds unsettled; milder temporarily
11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Wind Westerly, moderate or fresh; cloudy to dull, some rain; visibility fair; milder.	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind Westerly, fresh or strong; dull, some rain; visibility fair; milder.	
17. N.W. Ireland 18. N.E. Ireland	Same as for 11 - 13.	
19. S.E. Ireland 20. S.W. Ireland	Wind S.W. to W. moderate, cloudy, perhaps rain later; visibility fair; milder.	



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

Dense fog.	Objects not visible at	50 metres or yards.	
Rather thick fog	"	200 "	"
Very Bad	"	500 "	"
Bad	"	1,000 "	"
Very Poor	"	2,000 "	"
Poor	"	4,000 "	"
Indifferent	"	7,000	(4·3 miles)
Fair	"	12,000	(7·5 ")
Good	"	30,000	(18·5 ")
Very Good.	Objects visible at	50,000	or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 89

WEDNESDAY 30th MARCH 1921

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 28th-29th	Rainfall. Day. 9h-18h. 29th	Sunshine. Sunrise to Sunset. 29th
Scotland.	Banff	sr. d. o	sr. c. b. o	40	34	0·3	8	1·4
	Montrose	o.	or	43	34	-	1	2·5
England, N.E.	Harrogate	bc	bc	51	38	3	·	4·5
	Skegness	or. b	b. oor. c	53	34	1	0·2	4·5
England, E.	Lowestoft	c. bc	bc	52	41	0·2	·	4·0
	Felixstowe	cq	bc	51	42	1	-	6·4
	Southend-on-Sea	o. r. bc	bc. cp	54	40	5	0·1	6·1
England, S.E.	Tunbridge Wells	o. bc. b	bc. orh	51	41	8	1	4·9
	Margate	o	b	53	41	2	·	5·8
	Ramsgate	*	*	50	33	2	·	6·4
	Folkestone	bc	bc. oh. o	51	34	4	1	4·9
	Hastings	o. c. bc	b. bc. op	51	42	4	2	5·4
	Eastbourne	or. bc	bcr. o	52	43	6	2	5·6
	Brighton	bc	bc. cp. o	51	44	5	1	6·3
	Worthing	b. bc	rh. c	52	43	4	2	6·4
	Portsmouth (S'thsea)	b	b. or	52	43	6	3	4·4
	Bournemouth	bc. r	bc	49	39	6	4	5·9
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-9h. 28th-29th	Rainfall. Day. 9h-17h. 29th	Sunshine. Sunrise to Sunset. 29th
England, N.W.	Blackpool	or	c. ou	45	33	4	-	4·0
	Southport	o. c. bc. b	b. bc. c. o	44	35	4	-	4·3
Midlands.	Leamington Spa	cp	c. or	52	36	3	4	6·9
	Bath	b. bc p. b	b. op r	50	39	6	2	5·4
Wales.	Rhyl	bc	bc	48	33	4	-	2·0
	Colwyn Bay	*	*	48	34	8	-	6·4
	Llandudno	c. bc	bc. c	46	33	4	·	5·4
	Aberystwyth	r. o. c	b. bc	45	34	4	-	4·0
England, S.W.	Weymouth	bqh. c	cq	53	39	5	2	5·3
	Torquay	qh. pr. o	qh. c. o. b	49	38	6	4	5·0
	Penzance	oprq	c. o	48	39	12	1	6·6
	Bude	phr. o	bcp. r	46	34	10	3	2·1
	Ilfracombe	bilpr. cr	c. oph	46	38	4	5	2·3

SUMMARIES FOR PAST 24 HOURS.

STATIONS.	Weather 7h-13h 29th	Weather 13h-18h 29th	Weather 18h-1h 29th-30th	Weather 1h-7h 30th	Max. Temp Day °F.	Min. Temp Night °F.	Min. on Grass. °F.	Rainfall† Day. 7h-18h mm.	Rainfall† Night. 18h-7h mm.	Sun. Hours.
Renfrew	c	p	borbc	borbc	43	34	24	TR.	-	3·0
Eskdalemuir	borbc	r or d	r or d	borbc	42	33	27	0·5	1	4·3
Valencia (Cahire'n)	c	hr r hr	c	c	49	45	41	1	-	5·4
Baldonnel	c	r or d	c	c	46	35	28	4	-	2·5
Didsbury	oo	c	c	c	47	34	25	TR	-	*
Ross on Wye	p	c	c	borbc	50	36	29	2	TR	2·8
Falmouth	hrhr	p	p	c	46	40	39	4	2	6·0
Calshot (Hants)	hrhr	h or hr	r or d	c	50	38	*	2	0·2	4·5
Lympne (Folkestone)	p	c	p	p	49	34	33	0·2	3	5·5
Aberdeen	oo	r or d	p	p	42	35	31	1	0·5	2·1
Howden	c	oo	form	form	48	24	12	TRACE	-	4·8
Cranwell (Lincs)	borbc	form	p	p	52	32	30	0·5	0·2	8·8
Felixstowe	c	borbc	c	c	52	38	36	-	hacc	6·8
Shoeburyness	borbc	c	p	p	54	38	33	0·1	1	5·9
Benson	borbc	p	p	c	51	35	30	2	0·4	*
S. Farnborough	hrhr	h or hr	p	form	51	35	30	1	1	4·1
London (Kew Obsy.)	borbc	p	p	p	52	36	26	1	2	6·3
Croydon	hrhr	h or hr	r or d	borbc	51	36	31	1	1	*

WEATHER. (p1.)

With present weather is combined, whenever possible, the general character of the weather. A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0-5; co = cloud 6-10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 30th							YESTERDAY.		TO-DAY.
Greenwich (Royal Observatory)	c	cp	co. b	56	36	29	2	6·2	64	77
City (Bushill Row)	*	*	*	*	*	*	*	4·1	*	*
Westminster (St. James's Park)	*	*	*	54	36	29	3	5·1	65	74
Regent's Pk (Botanical Gdn)	*	*	*	*	*	*	*	5·3	*	*
Camden Sq. (British Rainfall)	b. c	oh. cp	*	54	35	30	4·0	*	77	75
Kensington Palace	bc. oq	r. bc	*	53	36	30	4·0	*	86 (18h)	81
Hampstead Observatory	*	*	*					4·9	*	

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.

30th & 31st MARCH 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5·34	11·59	6·21
	5·32	11·59	6·21
Greenwich	5·43	12·5	6·21
	5·40	12·4	6·21
Wick	5·43	12·17	6·49
	5·45	12·16	6·49
Valencia	6·24	12·46	7·9
	6·21	12·45	7·9

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

Exposure from 28th ... 19 h. 30 m. to 31st ... 4 h. 45 m.

Stars.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	9	15	3	30	38
δ Ursæ Minoris	9	15	3	3	33

NOTES ON THE WEATHER OF YESTERDAY.

There was again much rain in nearly all localities and snow fell at Birr Castle, Lerwick, and Banff. Thunderstorms occurred at Pembroke and Ilfracombe. There were however considerable bright intervals and many stations recorded 6-8 hours of sunshine. Temperature was generally rather low and ground frosts occurred at night very generally. at Howden the air temperature fell as low as 24°.

* 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.24678 THURSDAY ... 31st MARCH .. 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.	Total. Amt. 0-10.	Sea 0-9.
	13H. G.M.T. 30th													
Renfrew	1008·1	-1	SW	5	d₀	47	75	7	1500	St Cu	6	A St	10	*
Eskdalemuir ...	1009·4	+2	WSW	4	co+	45	85	8	4000	St Cu	9	Ci St	10	*
Valencia (Cahirc'n)	1017·1	+2	W	3	co+	50	85	8	800	St Cu	8	-	8	*
Baldonnel ...	1013·2	0	W	4	co+	50	65	8	4000	St Cu	8	A St	9	*
Manchester (Alex. Pk)	1011·8	+4	NW	4	co	57	85	6	2500	Cu	2	Ci	7	*
Ross on Wye ...	1012·2	+4	NW	2	bc r	56	85	9	4000	Cu	2	Ci	5	*
Falmouth	1017·3	+2	NW	4	co	52	85	8	-	St Cu	5	Ci St	8	*
Calshot (Hants) * ...	1014·2	+7	NNW	4	co+	51	65	8	4000	Cu	7	-	7	*
Lympne (Folkestone)	1012·3	0	NW	3	co+	46	75	~~7~~ 5	4000	Cu	7	-	7	*
Aberdeen	1004·9	-2	WSW	3	co+	46	75	8	-	-	-	A St	10	*
Howden	1010·6	+5	SW	3	co-	50	85	9	4000	Cu	4	Ci St	6	*
Cranwell (Lincs) ...	1011·2	+3	NNW	2	co	48	75	7	4000	Cu	8	-	8	*
Felixstowe ...	1012·0	+3	NNW	4	co-	48	65	7	4000	Cu	5	-	5	*
Shoeburyness ...	1011·9	+4	WNW	2	co-	49	65	7	2500	St Cu	6	A Cu	8	*
Benson	1013·1	+4	NW	4	bc	50	85	7	-	Cu	4	-	7	*
S. Farnborough	1012·3	+6	NW	2	co	51	85	8	2500	St Cu	8	-	8	*
London (Kew Obsy.)	1013·2	+4	NW	3	co-	48	85	7	4000	St Cu	6	A Cu	9	*
Croydon	1013·5	+4	WNW	2	co	47	65	7	2600	St Cu	10	-	10	*
	7H. G.M.T. OF 31st													
Renfrew ...	1013·4	+6	W	4	co/r	48	75	7	1500	St Cu	10	-	10	*
Eskdalemuir ...	1014·5	+5	W	3	co-	45	85	6	1600	St	10	-	10	*
Valencia (Cahirc'n)	1025·2	+5	WNW	2	co	48	*	*	*	*	*	*	*	*
Baldonnel ...	1021·3	-1	SW	5	co	47	85	6	1500	St Cu	10	-	10	*
Manchester (Alex. Pk)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Ross on Wye...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Falmouth ...	1024·6	+2	W	3	co+	47	92	6	-	St	10	-	10	*
Calshot (Hants) ...	1022·7	+3	WSW	4	bc	41	85	8	-	-	-	-	-	*
Lympne (Folkestone)	1021·9	+4	WNW	2	bc	38	92	8	-	-	-	-	-	*
Aberdeen ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Howden ...	1015·2	+3	WNW	4	co/r	49	85	6	1500	St	10	-	10	*
Cranwell (Lincs)	1016·9	+1	W	4	co	47	92	7	2500	St Cu	10	-	10	*
Felixstowe ..	1019·0	+3	W	3	bc	43	85	8	-	-	-	-	-	*
Shoeburyness...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benson	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (M.O. at 1s.)	1020·5	+3	*	*	*	42	*	*	*	*	*	*	*	*
Croydon ...	1021·7	+3	W	4	bc-	41	85	7	-	-	-	Ci	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.	Total. Amt. 0-10.	Sea 0-9.
	19H. G.M.T. OF 30th													
Renfrew	1007·0	+1	WSW	4	d	45	92	6	1500	Nb	10	-	10	*
Eskdalemuir ...	1008·3	0	SW	4	co/r	42	97	5	1600	St	10	-	10	*
Valencia (Cahirc'n)	1020·4	+4	WNW	3	d₀	49	97	6	430	St	10	-	10	*
Baldonnel ...	1015·3	+3	W	5	d₀	49	92	7	800	St	10	-	10	*
Manchester (Alex. Pk)	1013·8	+1	W	4	co	48	65	5	4000	St	1	A Cu	13	*
Ross on Wye ...	1017·0	+5	WNW	3	bc r	48	65	9	4000	St Cu	4	Ci	4	*
Falmouth	1020·7	+4	NW	3	bc	48	75	8	-	-	-	Ci St	1	*
Calshot (Hants) * ...	1018·2	+5	W	3	co	51	65	8	4000	Cu	1	Ci	8 ~~7~~	0
Lympne (Folkestone)	1017·0	+6	W	4	bc-	43	75	7	-	-	-	A St	2	*
Aberdeen	1002·2	+1	SSW	3	co-	47	92	7	1500	St	8	-	8	0
Howden	1012·7	+4	SSW	4	co+	47	75	7	4000	St Cu	6	A Cu	10	*
Cranwell (Lincs) ...	1014·8	+4	W	1	co-	47	75	7	3750	St	3	Ci St	10	*
Felixstowe ...	1016·1	+4	W	2	bc-	48	65	7	-	-	-	Ci	1	2
Shoeburyness ...	1016·0	+5	SW	1	fb+	46	65	4	2600	St	4	-	4	*
Benson	1016·2	+4	W	1	bc-	51	85	7	-	Cu	1	-	1	*
S. Farnborough	1017·0	+4	WSW	2	bc+	50	85	8	2500	St Cu	1	Ci	3	*
London (Kew Obsy.)	1016·7	+4	W	2	bc-	51	85	6	-	-	-	A Cu	2	*
Croydon	1016·9	+4	W	2	bc-	49	65	6	4000	Cu	2	Ci	4	*
	7H. G.M.T. OF 31st													
Renfrew ...	1018·7	+7	WSW	4	od₀	~~48~~ 45	85	7	1500	Nb	10	-	10	4
Eskdalemuir ...	1020·0	+6	WNW	4	co	45	75	6	2500	St Cu	8	Ci	9	*
Valencia (Cahirc'n)	1028·1	+4	-	0	co	48	85	8	2500	St	10	-	10	1
Baldonnel ...	1025·6	+4	SW	2	co	47	85	6	1500	St	10	-	10	*
Manchester (Alex. Pk)	1022·2	+6	WNW	4	co	48	75	8	2500	St Cu	3	Ci	9	*
Ross on Wye...	1024·2	+4	WNW	2	co	48	75	8	4000	St Cu	9	-	9	*
Falmouth ...	1027·5	+5	W	2	co	48	92	7	-	St Cu	8	-	8	*
Calshot (Hants) ...	1025·2	+5	W	3	co+	47	92	8	4000	St Cu	10	-	10	0
Lympne (Folkestone)	1023·8	+4	WNW	2	co	41	92	9	1500	St Cu	10	-	10	*
Aberdeen ...	1012·9	+4	W	4	bc-	49	75	8	2500	St	1	Ci Cu	2	0
Howden ...	1019·3	+4	WNW	4	co+	46	85	7	-	-	-	Ci St	8	*
Cranwell (Lincs)	1021·8	+5	W	1	co	~~45~~	92	7	-	-	-	Ci	8	*
Felixstowe ..	1022·4	+2	W	3	co+	46	92	7	4000	St Cu	10	-	10	2
Shoeburyness...	1022·7	+4	WNW	3	2ff0	47	85	5	2500	St Cu	10	-	10	*
Benson	1024·0	+4	W	2	co	49	85	7	-	St Cu	9	-	9	*
S. Farnborough	1024·1	+4	WSW	2	co	46	92	8	1500	St Cu	10	-	10	*
London (M.O. at 1s.)	1024·0	+4	WSW	3	co	46	85	6	4000	St Cu	10	-	10	*
Croydon ...	1024·4	+5	W	3	co+	46	85	7	1500	St	6	A 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.
	18H. G.M.T. of 30th					7H. G.M.T. of 31st								
Lerwick ...	991·2	45	W	8	pr	1004·3	+8	41	+4	W	5	-	o pr	4
Stornoway ...	1000·8	47	WNW	7	PR	1012·5	+2	47	+8	WNW	6	-	o DD	6
Castlebay (Barra Is)	1006·7	48	WNW	5	pr	1014·6	+2	48	+3	WNW	4	-	od₀d₀	4
Malin Head ...	1009·3	47	WNW	3	d₀d	1019·8	+5	47	+3	WNW	4	-	12fa	1
Blacksod Point	1015·1	50	NW	2	co/r	1024·6	+2	48	+4	W	1	-	co	1
Roche's Point...	1019·1	51	WNW	3	co	1027·8	+4	47	+3	WNW	2	-	co	0
Burr Castle ...	1016·5	50	W	2	coe	1026·2	*	44	+6	SW	1	-	co-	*
Donaghadee ...	1011·5	49	WSW	2	co/r	1022·4	+5	47	+9	WNW	2	-	co/r	0
Liverpool (Bidston)	1011·1	48	W	3	co	1023·0	+4	47	+5	W	5	-	co	4
Holyhead ...	1015·0	49	SW	5	r+	1025·0	+4	48	+4	WSW	4	-	co	1
Pembroke (St. Ann's Head)	1018·7	48	WSW	3	co+	1026·4	+3	48	+5	WNW	2	-	co	3
Scilly (St. Mary's)	1020·3	50	W	3	co-	1027·5	+3	50	+5	WNW	2	-	co+	2
Jersey (St. Aubin)	1020·3	50	W	3	bc	1027·6	+1	48	+2	W	4	-	bc	3
Portland Bill ...	1019·1	50	W	4	bc	1025·3	+4	49	+4	W	5	-	co+	5
Dungeness ...	1017·0	48	WSW	3	bc-	1023·3	+2	46	+7	WSW	3	-	co+	3
Wick	996·3	47	W	4	co/r	1009·2	+5	46	+10	WNW	4	-	co	3
Nairn	1000·6	47	W	4	c	1012·6	*	49	+11	W	4	-	bcq	3
Leith	1004·6	48	W	5	o	1017·1	+3	48	+12	WSW	3	W	c	2
Tynemouth ...	1008·7	48	W	2	ff o	1014·1	+5	47	+8	W	6	-	bc+	0
Spurn Head ...	1012·9	48	W	4	co	1019·5	+5	46	+8	W	4	-	bc	3
Yarmouth (Gorleston)	1013·9	50	NNW	3	bc-	1019·8	+3	47	+9	NW	3	-	co	0
Clacton-on-Sea ...	1017·2	49	W	3	bc	1021·8	+3	45	+6	W	3	-	co	1
Nottingham ...	1015·0	49	NW	3	co+	1022·0	*	49	+9	WNW	3	-	bc+	*

STATIONS.	Rainfall mm. † Day.	Rainfall mm. † Night.	Temp. Max. Day. °F	Temp. Min. Night. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine. Hours.
	24 HOURS ENDED 7H. 31st							30.4
Lerwick ...	4	2	46	37	r or d	r or d	oo	*
Stornoway ...	2	-	50	38	p	p	r or d	0·6
Castlebay (Barra Is)	TR	TR	49	47	oo	p	r or d	0·2
Malin Head ...	0·4	0·1	48	42	c	r or d	r or d	0·1
Blacksod Point	0·2	TR	52	49	p	oo	oo	*
Roche's Point...	-	-	53	42	oo	oo	oo	*
Burr Castle ...	-	0·1	52	44	c	oo	form	0·8
Donaghadee ...	0·4	0·3	51	44	c	oo	p	*
Liverpool (Bidston)	-	-	50	46	b or bc	b or bc	c	8·8
Holyhead ...	-	TR	51	47	c	c	oo	6·3
Pembroke (St. Ann's Head)	-	-	50	43	b or bc	c	c	9·7
Scilly (St. Mary's)	-	-	54	45	b or bc	b or bc	oo	9·3
Jersey (St. Aubin)	-	-	53	41	b or bc	b or bc	b or bc	9·0
Portland Bill ...	-	-	52	45	b or bc	b or bc	oo	*
Dungeness ...	-	-	52	42	c	b or bc	c	*
Wick	1	0·2	48	43	oo	p	oo	*
Nairn	0·5	0·5	49	36	bc cq	o pr q	cq bc	0·2
Leith	0·3		49	36	bc. co	o gm o	o bc uc	*
Tynemouth ...	-	-	50	47	b or bc	c	b or bc	*
Spurn Head ...	-	-	48	36	b or bc	b or bc	oo	*
Yarmouth (Gorleston)	-	-	54	42	c	c	oo	6·3
Clacton-on-Sea ...	-	-	51	42		b or bc	c	4·7
Nottingham ...	-	-	49	45	b or bc	c	c	6·5

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

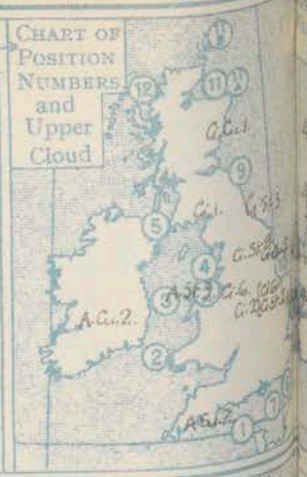
M.O. FORM 2370.

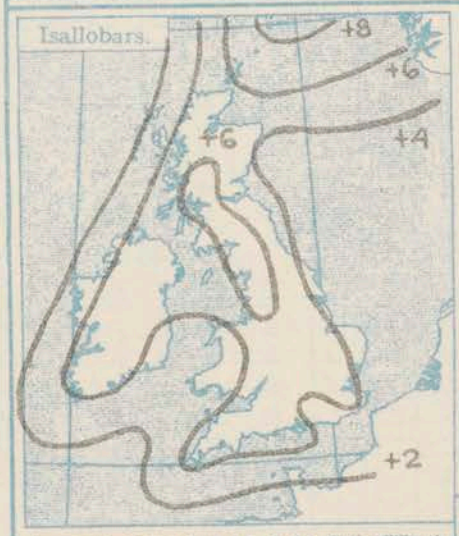
SUMMARY OF CONDITIONS AT 7 h. G.M.T. 31.3.1921

Districts.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Dull.	Fair	Slight
2. E. England	Cloudy or dull.	"	"
3. E. Midlands	Cloudy or dull.	"	---
4. W. Midlands	Cloudy or dull.	Good	---
5. S.W. England	Cloudy or dull.	"	Slight
6. South Wales	Cloudy.	Fair	Mod.
7. North Wales	Cloudy or dull.	"	Slight
8. N.W. England	Cloudy or dull.	"	Mod.
9. N. Midlands	Fair to dull.	"	---
10. N.E. England	Fine or fair.	Good	Slight
11. E. Scotland	Fine to cloudy.	Fair	"
12. S.W. Scotland	Cloudy or dull, local drizzle.	"	"
13. Isle of Man	Dull.	"	"
14. N.&N.W. Scotland	Fair to dull, local drizzle.	Indif.	Mod.
15. Hebrides	Dull, some drizzle.	Poor	"
16. Orkneys and Shetlands	Dull, slight showers.	"	"
17. N.W. Ireland	Dull, misty.	Bad	Slight
18. N.E. Ireland	Dull, local mist.	Indif.	"
19. S.E. Ireland	Cloudy or dull.	"	"
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
8	30th	1530	46	51
2	31st	0200	48	49
7	31st	0235	49	49





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 the 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. snow. sleet. hail. fog. mist. thunder. thunderstorm.
SEA DISTURBANCE.—Rough. High seas.

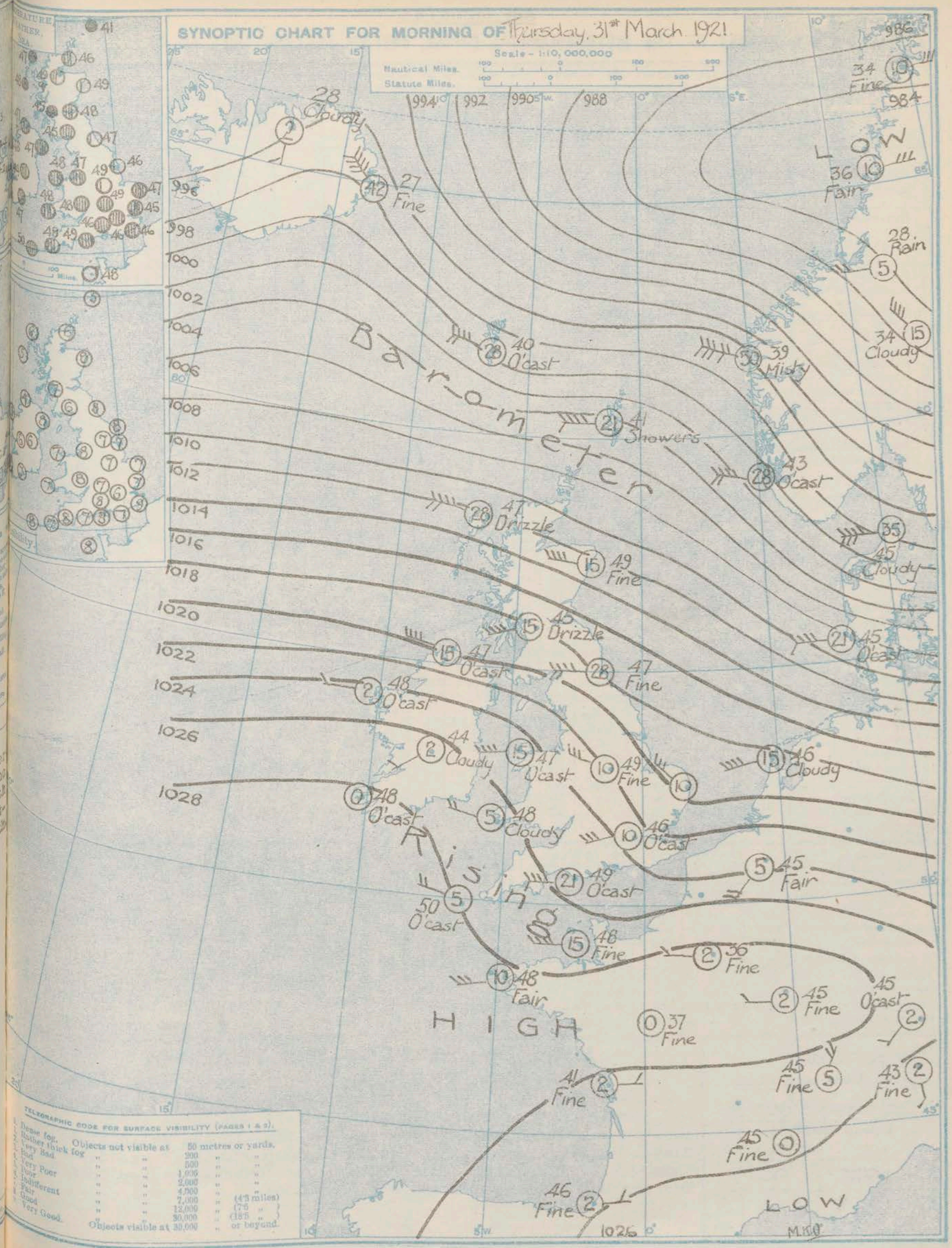
GENERAL INFERENCE from observations received up to 9h.

Pressure continues to rise generally as a result of the North-Eastward expansion of the Azores anticyclone. Winds are likely to continue Westerly and there will be a good deal of cloud, with some local rain or drizzle in the North and West.

Districts.	Forecasts for the 24 hours commencing 15 h. G.M.T. Thursday, 31st March, 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; visibility fair; moderate temperature.	Winds Westerly; little or no rain in the South and East; unsettled in the North
7. North Wales 8. N.W. England	Wind Westerly moderate; cloudy or dull, local drizzle; visibility fair; moderate temperature.	
9. N. Midlands 10. N.E. England 11. E. Scotland	Wind Westerly moderate; fair to cloudy; visibility fair to good; moderate temperature.	
12. S.W. Scotland 13. Isle of Man	As for 7-8.	
14. N.&N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind Westerly, fresh, strong at times; dull some rain or drizzle; visibility fair; moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind South-West to West, light or moderate; cloudy or dull, probably some drizzle; visibility indifferent to fair; moderate temperature.	

F.2a.

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


SYNOPTIC CHART FOR MORNING OF Thursday, 31st March 1921
Scale - 1:10,000,000
Nautical Miles.
Statute Miles.
Barometer
LOW
HIGH
Rising
LOW
TELEGRAPHIC CODE FOR SURFACE VISIBILITY (PAGES 1 & 2).
0 Dense fog. Objects not visible at 50 metres or yards.
1 Heavy thick fog " " 200 " "
2 Very Bad. " " 500 " "
3 Bad " " 1,000 " "
4 Very Poor " " 2,000 " "
5 Poor " " 4,000 " "
6 Indifferent " " 7,000 " (4·3 miles)
7 Fair " " 12,000 " (7·5 ")
8 Good " " 30,000 " (18·5 ")
9 Very Good. Objects visible at 30,000 " or beyond.

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1921. No. 90

THURSDAY 31st MARCH

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

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 18h-9h. 29th-30th	Rainfall. Day. 9h-18h. 30th	Sunshine. Sunrise to Sunset. 30th
Scotland.	Banff	o	od	47	36	1	0.2	0.5
	Montrose	c	o	49	34	-	-	3.1
England, N.E.	Harrogate	bc	bc	51	34	-	-	5.8
	Skegness	mb	bo	51	36	-	-	7.0
England, E.	Lowestoft							
	Felixstowe	c	bm	51	38	-	-	4.8
	Southend-on-Sea	b.bc.c	c.bc	51	34	1	-	3.6
England, S.E.	Tunbridge Wells	b bc	c. bc	50	36	1	-	5.6
	Margate	b	b.bc.c	53	34	3	-	7.5
	Ramsgate	*	*	50	35	2	-	7.2
	Folkestone	c	c	50	38	4	-	7.0
	Hastings	b.bc	bc.b	51	39	2	-	8.8
	Eastbourne	b.bc	bc	52	40	2	-	9.1
	Brighton	bc	bc	52	40	2	-	0.0
	Worthing	b.bc	bc	53	40	1	-	9.4
	Portsmouth (S'thsea)	.s.	.s.	54	40	-	-	9.7
	Bournemouth	bc	bc.b	55	38	-	-	11.0
		*	*					

	STATIONS.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Max. °F.	Temperature. Min. °F.	Rainfall. Night. 17h-8h. 29th-30th	Rainfall. Day. 8h-17h. 30th	Sunshine. Sunrise to Sunset. 30th
England, N.W.	Blackpool	bc	o	50	39	1	-	7.5
	Southport	b	b.bc.c.o	50	41	1	-	6.7
Midlands.	Leamington Spa	bc	bc	55	35	1	-	9.0
	Bath	b	b.bc	54	40	1	-	10.5
Wales.	Rhyl	bc	bc.c	52	40	0.3	-	8.2
	Colwyn Bay	*	*	51	40	-	-	8.7
	Llandudno	b	b.bc.o	50	42	-	-	9.8
	Aberystwyth	r.c.b	b.bc	49	38	2	-	9.0
England, S.W.	Weymouth	bc	bc	58	39	1	-	11.2
	Torquay	b3	b3	56	40	3	-	11.3
	Penzance	bc.b	bc.b	54	39	7	-	10.4
	Bude	c.bc	b	54	42	3	-	9.0
	Ilfracombe	o.c.bc.b	bc.b	49	38	5	-	7.6

STATIONS.	Summaries for past 24 Hours. Weather. 7h-13h 30th	13h-18h 30th	18h 30th-1h	1h-7h 31st	Max. Temp. Day. °F.	Min. Temp. Night °F.	Min. on Grass. °F.	Rainfall.† Day. 7h-18h mm.	Rainfall.† Night. 18h-7h mm.	Sun. Hours.
Renfrew	oo	r or d	r or d	oo	48	45	44	0.3	TR	2.7
Eskdalemuir	c	r or d	r or d	c	46	42	41	0.0	1	4.4
Valencia (Cahire'n)	c	r or d	c	oo	51	47	46	0.1	0.1	0.1
Baldonnel	c	r or d	oo	oo	51	45	43	0.2	*	4.2
Manchester (Alex. Pk.)	c	c	c	oo	51	47	43	-	-	*
Ross on Wye	b or bc	b or bc	c	c	56	45	37	-	-	11.3
Falmouth	c	b or bc	b or bc	c	54	42	39	-	-	10.0
Calshot (Hants)	c	c	b or bc	b or bc	52	40	*	-	-	9.6
Lympne (Folkestone)	f or m	c	b or bc	c	49	37	34	-	-	7.5
Aberdeen	c	oo	c	b or bc	49	37	42	-	-	2.0
Howden	c	oo	r or d	b or bc	53	42	36	-	-	5.3
Cranwell (Lincs)	c	c	oo	c	52	44	41	3	-	5.9
Felixstowe	c	b or bc	b or bc	c	52	39	38	-	-	5.6
Shoeburyness	f or m	f or m	c	c	50	41	37	-	-	3.0
Benson	c	b or bc	oo	oo	55	40	31	-	-	*
S. Farnborough	c	c	oo	oo	55	37	34	-		7.5
London (Kew Obsy.)	c	b or bc	c	c	53	41	32	-	-	5.3
Croydon	oo	oo	b or bc	oo	50	41	33	-	-	*

WEATHER. (p 1.)

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

A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r = fair weather after rain. i = intermittent; — = "decreasing"; + = "increasing"; Kq = line squall; h(r) = "hail" or "rain and hail"; bc = cloud 0–5; co = cloud 6–10.

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

SEA DISTURBANCE.

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

THE BEAUFORT SCALE OF WIND 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

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. 31st							Yesterday.		To-day.
Greenwich (Royal Observatory)	oco	c bc.b	b.bc.o	51	40	32	-	3.9	55	79
City (Bunhill Row)	*	*	*	*	*	*	*	3.9	*	*
Westminster (St. James's Park)	*	*		53	41	35	-	5.3	56	80
Regents Park (Botanical Gdns)	*	*	*	*	*	*	*	5.1	*	*
Camden Sq. (British Rainfall)	b.bc	b	*	53	40	34	-	*	57	79
Kensington Palace	bc.c	bc	*	52	42	36	-	*	57 (18h)	80
Hampstead Observatory	*	*	*	51	40	*	-	5.5	49	46

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.

31st MARCH to 1st APRIL 1921.

Stations.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	5.32 / 5.30	11.04 / 11.04	6.23 / 6.24
Greenwich	5.40 / 5.38	12.01 / 12.01	6.23 / 6.24
Wick	5.46 / 5.42	12.16 / 12.16	6.49 / 6.50
Valencia	6.21 / 6.19	12.45 / 12.47	7.9 / 7.11

Photographic Record of Pole Star (Polaris) and of 3 Ursae Minoris at Greenwich Observatory.

Exposure from 30th ...19..h..39..m. to 31st ...04..h..45..m.

Star.	Duration of Exposure. h.	m.	Duration of Record. h.	m.	%
Polaris	8	15	5	48	63
3 Ursae Minoris	9	15	5	43	62

NOTES ON THE WEATHER OF YESTERDAY.

Except in Scotland and Ireland, where there was much cloud and some rain, the day was generally fair and large amounts of sunshine were recorded by most of the English and Welsh stations. Eleven hours or more were enjoyed at Bournemouth, Ross-on-Wye, Weymouth and Torquay. Temperature was somewhat higher than on Tuesday but failed to reach 50° in places.

* 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, March. 1921.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
27th	Eskdalemuir.	18h clouds "2500: Sc: 10: - : 10."
		Sunshine "3.5 hrs"
	Cranwell.	18h Temp. 45:
	Kew.	- Vis. 6.
	Baldonnell.	1h temp. 37. Max 49: Rain day "2"
28th	Calshot.	- bar. "1020.7"
	Baldonnell.	18h bar. 1019.0: 1h wind "W. 5"
	Cranwell.	- bar. 1015.9: 1h humidity "92"
	Croydon.	- clouds. "Sc: 7: Ac Sc: 10".
	Eskdalemuir.	1h bar change "-5"
	Calshot.	- humidity. "92"
	Croydon.	- " "92".
	Howden.	Max. 50.
	Felixstowe.	Min. 39.
	Roches Point.	7h bar. 1011.1.
	Holyhead.	Sunshine. 4.6.
	Pembroke.	- 7.3.
29th	Baldonnell.	1h ht of low cloud 800: 18h cloud "Sc: 10" Max. 51: Rain day "4".
	Cranwell.	13h wind "SW. 4": Cloud ht. 1500.
	Croydon.	1h weather "do":
	Ross.	Max. 52.
	Falmouth.	Rainfall, day, 3 mm
	Howden.	Grass min 29: Sun. "0.9"
	Felixstowe.	Min. 42.
	Lerwick.	18h bar. 985.2.
	Castlebay.	Sea. 4.
	Roches Point.	Max. 52.
	Portland Bill.	Rainfall, day. 0.2.
	Nairn.	Sunshine 0.8.
	Tynemouth.	18h bar. 989.0.
30th	Eskdalemuir.	13h cloud Ci Cu. 7: 18h wind "WSW".
	Baldonnell.	18h wind WNW: 7h wind "SW"
		Min Temp 33.
30th	Cranwell.	18h. bar. 994.3: wind "WNW.": "Vis. 8."
		7h. cloud ht. 2500: Rain day 0.5.
	Calshot.	1h. humidity. 92.
	Castlebay	18h wind N.
	Scilly.	- bar. 1001.6.
	Leith.	- - 990.0.
	Yarmouth.	7h bar. 1003.1.
31st	Renfrew.	18h humidity 92: 7h temp 48
	Lympne.	13h Vis. 5: 18h wind "W. 3".
	Cranwell.	7h temp. 43: Rain day Nil.
	Howden.	Max. temp. 53.
	Felixstowe.	Min. 42.
	Shoeburyness.	Min. 41.
	Manchester.	18h clouds "Sc: 6: ACu: 10".

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.	Total 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. mm.	Rainfall. Night. 18h-7h. mm.	Sun. Hours.
3rd	Eskdalemuir.	1h	1023.2	+1	WSW	2	CO+	28	75		1500	Sc.	10	-	10	*			c							
-	Baldonnell.	7h	1021.8	-3	SSW	5	0	40	75	7	2500	Sc.	10	-	10	*										
8th	Howden	7h	1024.3	-1	SSW	2	C+	32	65	7	4000	-	-	Ci. Sc.	7	*										
-	Baldonnell.	1h	1019.0	0	S	5	or	41	92	6	1500	?	10	-	10	*										
10th	Howden.	7h	1017.6	-1	S	1	0	35	92	8	2500	Sc.	8	asc.	10	*				oo		31	24		0.1	6.2
13th	Renfrew.	7h	999.5	-2	SSE	3	0	47	85	7	800	Sc.	8	asc.	10	*				r or d		46	43		0.3	0.0
-	Baldonnell.	7h	995.8	-2	ESE	1	0	45	85	8	2500	Sc Cu	8	asc.	10	*				c		43	38		0.1	0.0
-	Howden		1005.2	-2	SE	4	r or	45	97	5	1500	Nb	10	-	10	*				r or d			35		2	4.3
14th	Cranwell.		1006.4	-1	S	4	0	45	97	6	2500	Sc.	8	asc.	9	*				p		41	39		0.1	2.8
15th	Baldonnell		1002.2	+2	SSW	4	C-	40	85	8	5750	Sc.	4	Cu Sc.	7	*				r or d		39	34	1	1	4.8
16th	-	18h	1008.3	+9	WSW	2	PR	39	92	9	1500	Nb.	3	aCu	8	*										
-	Renfrew	13h	1003.0	+1	SSW	7	co/r	52	85	6	2500	Sc.	10	-	10	*										
23rd	Cranwell.	7h	1003.1	-8	S	7	r or	51	95	6	800	Nb	10	-	10	*						42	41		10	0.3
25th	Baldonnell.	1h	1023.2	-1	S	5	0	50																		
29th	-	7h	1014.8	-1	SW	5	0	48	95	8	1500	Sc.	5	asc.	10	*				oo		40	33		-	2.9
-	Renfrew	1h	1026.2	-1	-	0	0	42	92	7	1500	Sc Cu	10	-	10	*										
30th	Felixstowe	1h	985.0	0	WSW	4	bc	32	75	7	1500	Sc Cu	5	-	5	*										
-	-	1h	998.7	?-7	WSW	6	r	44	97	5	1500	Nb	10	-	10	5										
-	-	1h	1000.2	+2	WSW	5	0	42	85	8	4000	Sc Cu	8	asc.	10											

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.	Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather	Sea 0-9.	Rainfall. mm. Day.	Night.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine Hours.
			18h. G.M.T.					7h. G.M.T.											24 Hours Ended 7h.					
1st	Bir Castle																				o	c		
7th	Leith		1029.4	48	SW	3	c																	
11th	Castlebay.		1015.3	35	N	2	b	1022.9	+2	26	-12	SW	1	-	b	1	1		38	25	u c b c b	b	b b z	*
12th	-							992.9	+2	44	-4	SW	5	S	co/r	6		3	48	38			r or d	0.0
13th	-		999.1	43	SW	4	co/r	994.9	-2	46	+1	SSE	6	-	pr or	7	2	04	44	43		h (or rh)	p	1.6
14th	-		989.7	47	S	6	pr or	982.9	+1	44	-1	SSE	5	-	dd	6	3	3	47	43		r or d	r or d	0.0
15th	-		993.1	46	SSW	4	bc/r	995.8	0	45	+1	S	5	-	co+	8	0.2	0.6	47	43	r or d	h or hr	b or bc	1.9
16th	Blackhead Point.							998.6	-6	43	-2	SSW	7	-	or			0.5	48	42			p	5.0
17th	-							998.8	-15	49	+5	SW	9	-	pr+	7		0.5	50	39			p	
18th	Castlebay		1008.0	46	SW	3	0	992.0	+4	47	-2	SW	7	-	c	7	0.0	0.5	52	40	p	p	p	
19th	-		1007.8	38	W	5		1013.1	+1	44	-5	S	5	-	bc	6	2	2	49	37	r or d	h or hr	c	1.0
20th	-		1003.5	47	SE	6	obh	1001.8	+2	43	-1	W	4	-	c	6	0.8	3	47	39	c	c	hr	0.6
21st	-		1005.8	44	WNW	5	PR	1013.7	+1	44	+1	W	3	-	co	3		4	47	43		h or hr	p	6.2
22nd	-		1008.1	44	WNW	5	co/r	1010.9	+1	44	0	WNW	6	-	co+	6		3	48	40	r or d	r or d	p	0.0
-	-		1017.2	47	WNW	3	co+	1012.1	?	49	+5	SW	5	-	do	6	0.3		47	48	p	b or bc	r or d	7.4
23rd	Clacton on Sea.		1005.8	50	SW	5	d+	1010.1	+3	44	-5	WNW	4	-	bc/r	4		3	50	42		r or d	r or d	0.0
24th	Castlebay		1022.5	48	S	3	co-																	
25th	-		1014.6	45	W	4	co/r	1001.3	-8	48	+4	S	5	-	r r	7		2	47	45	c	b or bc	oo	8.4
26th	-		1005.7	50	W	5	bc/r														r or d	p		
27th	-							1022.8	+2	44	-8	WSW	4	-	co-	4		-	52	42			oo	3.3
28th	-							1014.1	-5	43	-1	WSW	5	-	co/r	4		2	45	40			p	7.0
								1011.0	+2	40	-3	NW	5	-	bc/r	5		1	42	36			h or hr	2.3
								992.2	-2	49	+9	W	4	-	r+	5		5	?	42			p	5.1

‡ The barometric change is expressed in half millibars.

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

AIR MINISTRY.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON

BRITISH SECTION. CORRECTIONS AND ADDITIONS, March 1921.

I.—CORRECTIONS.

Report for	STATION.	CORRECTION.
1st.	Renfrew.	13h temp. 47.
	Howden.	18h bar. 1029·4: Sun, 1·1 hrs.
	Shoeburyness.	18h humidity. 85.
	Cranwell.	13h wind. W.
	Croydon.	18h cloud total 10: 7h "a.Cu.9"
	Howden.	7h bar. 1024·7: Cloud ht. 2500.
	Blacksod Point.	Sea.4
2nd	Baldonnell.	13h wind. SW.
	Falmouth.	18h wind NW.2
	Shoeburyness.	" humidity. 85.
	Lympne.	" wind. SW: Vis.7.
	Howden.	1h clouds. "St:4: Nb:6.
	Croydon.	7h " Nb. 10.
	Renfrew.	Grass min. 31.
	Eskdalemuir.	Max. 45: Sunshine "0.2".
	Lerwick.	18h temp. 42.
	Castlebay	Max. 46: Min. 38
	Roches Point.	Max. 52.
	Birr Castle.	18h weather. c/r
	Holyhead.	" bar. 1018·5.
	Wick.	" " 1006·0.
3rd	Ross-on-Wye.	" " 1026·1
	Calshot.	13h weather "bc": temp "47"
	"	7h wind "W. 1."
	Lympne.	18h " WNW.2: 7h bar 1028·5.
	Howden.	13h clouds. "Cu Nb."
	Renfrew.	7h weather. c/r: temp. 40. Clouds. "St:3: a.St: 5"
	Cranwell.	7h bar. 1026·0.
	Eskdalemuir.	Sunshine. "6·3".
	Holyhead.	Max. 46.
	Jersey.	7h wind NNW.
4th	Baldonnell.	13h clouds. Nb. 18h weather, "r"
	Calshot.	" wind SW: 18h bar. 1023·3. Clouds. "St.Cu.10": Sea. 0
	"	Grass min. 43
	Howden.	13h humidity. 75: 7h Vis. "5"
	"	Max. 50.
	Felixstowe.	18h temp.44: Min. 42.
	Shoeburyness.	" wind. SW.
	S. Farborough.	7h " SW. Min. 43.
	Croydon.	1h clouds. "Nb. 10": Min "42".
	Castlebay.	Max. 48.
	Birr Castle.	Rain night. 3: Min. 47: Sun. 0·0.
	Holyhead	Max. 47.
	Scilly.	Sun. 1·7.
	Spurn Head.	7h temp.46: bar change "+11"
5th	Calshot.	13h clouds "St.Cu.10": 7h bar change
	Howden.	18h bar. "1010·5": 1h temp "42". +2
	Felixstowe.	13h wind WSW
	Baldonnell.	1h bar change "-1": 7h. hum. "85%"
	Howden.	" temp. 42.
	Cranwell.	7h humidity "97".
	S. Farborough.	" clouds. Ci.8.
	Shoeburyness.	Min. 45.
	Benson.	Max. 52.
	Croydon.	" 52.
	Castlebay	Rain, day. "0·2".
	Holyhead.	Max. "52".
	Portland Bill.	Min. 45.
6th	Howden.	18h temp. 47.
	Cranwell.	13h humidity. 85: 18h clouds. 8
	"	7h wind WSW.
	Felixstowe.	13h weather "o": Clouds "St.Cu.10"
	"	7h Vis. "8": Clouds "Ci St. 4". Sun. 0·3
	Calshot.	Max. 48.
	Lympne.	Min. 36.
	Croydon.	" 36: Grass min. 31.
	Lerwick.	Max. 36: Min. 29.
	Roches Point.	Sea. "0"
	Holyhead.	Max. 50.
	Durigeness.	7h weather. "bc"
	Yarmouth.	" bar. 1004·7.
7th	Ross-on-Wye.	13h wind NNW.
	Calshot.	18h clouds St.Cu.10: Sea. "0"
	"	7h bar change "+8": Sun. 6·4.
		Past weather 1h-7h "c".
	Shoeburyness.	13h bar. 1003·8
7th	Kew.	18h Vis. "5".
	Baldonnell.	7h wind WSW: Min. 20: Rain, day "Trace".
	Felixstowe.	1h bar. "1012·4".
	Eskdalemuir.	Max. 38: Grass min. 14: Rainfall day "0·1": Sunshine "5·0".
	Lerwick.	18h bar. 1015·7.
	Birr Castle.	Sunshine. 8·0
	Holyhead.	Max. 45.
	Scilly.	Rainfall, day, 1·4.
8th	Baldonnel.	13h. Vis.8: Clouds St.Cu: 3: a.St: 4. Min. 37: Grass min. 35.
	Howden.	13h. Wind N: temp.40: bar change +1
	Eskdalemuir.	1h cloud Nb.10: Grass min. 30.
	Valencia.	7h weather. bc/r
	Manchester.	" wind. S.
	Croydon.	1h weather "b", no cloud: Min. 31
	Holyhead.	Max. 43: 18h wind "SW. 5".
	Birr Castle.	Weather, night "r" or "d".
	Scilly.	Min. 43.
9th	Lympne.	13h humidity "72": Min. "39".
	Baldonnell.	1h clouds "St.Cu: 3: a.St: 9"
	Blacksod Pt.	Min. "42".
10th	Howden.	13h bar. 1010·8.
	Cranwell.	18h bar. change. -1.
	Kew	13h " " -1.
	Eskdalemuir.	1h clouds. "Nb. 10".
	S. Farborough.	7h wind ESE.
	Castlebay.	Max. 48.
	Nairn.	Weather, morning "cq": aft. "cpq"
11th	Renfrew.	18h bar. 994·0: 1h wind SW 1h bar change "+10": Max. "49".
	Eskdalemuir	13h wind "SSW": Clouds "Cu.3".
	Baldonnell.	" wind "S.6": weather "r".
	Calshot.	" bar. 1006·1: 18h Sea. 3: 7h Temp.48: Min. "47".
	Baldonnell.	" wind W.S.W.2: Cloud "a.St.10"
	Pembroke.	18h weather. "pho"
	Portland Bill.	7h temp. 49: Min. "47".
12th	Baldonnell.	13h clouds. "Cu: 2: a.St.4".
	"	18h " "5750: Cu: 2": Vis. 8.
	S. Farborough	" bar. "1009·6"
	Felixstowe.	7h humidity "92".
	Croydon.	18h cloud total "10". 7h clouds "a.Cu.9".
	Howden.	Grass min. "27"
	Holyhead.	Sunshine "?2·0".
	Portland Bill.	7h bar. "1010·1".
	Spurn Head.	Max. "48"
13th	Renfrew.	13h bar. 1001·1. 7h wind "SE.4".
	Falmouth	" " 1007·1.
	S. Farborough.	" wind "SSW".
14th	Renfrew.	13h Vis. "6".
	Eskdalemuir.	" bar. 998·9. Rain, night "12".
	Cranwell	18h bar. "1004·2".
	Benson.	13h " "1005·7".
	Kew.	18h wind "S.3".
	Didsbury.	Max. 51.
	Falmouth.	Rainfall, day "13·4".
	Lympne	" " "0·2".
	Howden.	Sunshine "1·7".
	Lerwick.	18h bar. "999·1"
	Blacksod Pt.	Max. "50"
	Scilly	Sea.7: Rainfall night "4".
15th	Baldonnell	13h temp. 38: Rain, night "0·1".
	Cranwell.	18h Vis 8: "Cu.4": 7h wind SSW 3
	Calshot.	Sun. "5·8".
	Roches Point.	18h wind "W.3": 7h weather "bcorr"
	Portland Bill.	Rainfall, day "0·1"
	Cladon.	Max. "53"
16th	Howden.	13h clouds "2500: St: 1: a.St: 10".
	Ross.	" bar. "1022·0"
	Kew	" clouds. "Cu.4".
	Falmouth.	Rainfall night "2·6"
	Felixstowe.	Min. "45".
	Malin Head.	Max. "53".
17th	S. Farborough	13h wind "S".
	Kew.	" humidity 65: Vis. 8
	Croydon	" " " " 1h Cloud Nb.10
17th	Valencia.	7h Sea. "1".
	Ross.	" temp. "43".
	Roches Pt.	Weather afternoon "opc"
	Birr Castle	" " opc: Min. "38"
	Portland	Rain day 0·4.
	Wick.	Sea. "6".
	Felixstowe.	Min. "47".
18th	Baldonnell.	13h temp. 52: Cloud "St.Cu. 6" 7h bar. "1013·9" Min. 33: Sun. 9·0.
	Calshot.	13h humidity 92: bar change -2
	Lympne.	" bar 1027·7: humidity. 91.
	"	1h Vis. 8.
	Howden	1h temp. "49".
	Stornoway.	7h bar. 997·9.
	Holyhead.	18h bar 1013·8: Sun. 7·8.
	Pembroke.	Sun. 4·4
	Dungeness.	Rain day. "Nil."
19th	Renfrew.	7h (highly) clouds "Ci.St.": Rain night "8"
	Wick.	18h bar. 1001·7: 7h bar. "1005·4"
	Stornoway.	" wind "W. 3".
	Eskdalemuir.	Rainfall, day 1mm: Sun. 2·7
	Baldonnell.	Max. "48": rain day "0·5".
	Falmouth.	Rain day 0·8.
	Calshot.	Max. 52: Sun. 9·7.
	Howden.	Grass min. 31.
	Felixstowe.	Max. 52.
	Roches Pt.	Rain, day. 0·3.
20th	Baldonnell.	13h bar. 1018·9.
	Cranwell.	" Vis. 8: 18h humidity "97".
	Eskdalemuir.	Grass min. 33: Rain night "3"
	Felixstowe	Min. "41".
	S. Farborough	" "38"
	Holyhead.	Max. 51.
21st	Renfrew.	18h clouds "7000: St: 5: -: 5"
	Manchester.	" temp 46.
	Calshot.	" humidity. 65:
	Croydon.	13h clouds "1500: St.Cu: 8: a.Cu: 4"
	Cranwell.	1h Wind W: Max. 56.
	Kew.	Max. 52.
	Stornoway.	18h temp. 44.
	Birr Castle.	Min. 47.
	Wick.	7h bar. 1010·0.
22nd	Renfrew.	13h. bar change -2: humidity. 83
	Eskdalemuir.	" weather. o/s: Max. 49.
	Baldonnell.	18h bar. 1017·1.
	Ross on Wye.	13h temp 55.
	Nottingham.	Max. 57.
	Falmouth.	Rainfall day 0·1.
	Lympne.	Min. 43.
	Howden.	Max 56.
	Felixstowe.	Min. 43
23rd	Falmouth.	18h temp 51.
	Liverpool.	Rain, day 0·2.
	Holyhead.	Sunshine "7".
	Jersey.	18h bar 1025·2
	Spurn Head.	Min. 38.
	Eskdalemuir	Rain day 0·1: Sun. 4·8.
	Falmouth	" night. 0·4.
	Kew.	Max. "58".
24th	Cranwell.	18h bar. 1022·0: 7h wind "SW" Min. temp. 45
	Kew.	13h wind SW. Cloud "St.Cu.8: Ac.0"
	Pembroke	Sunshine "8·5"
	Jersey	" 10·5
	Eskdalemuir.	Rain day "6": night "2"
	Calshot.	Sunshine "5·8"
25th	Calshot.	13h bar. "1029·5"
	Stornoway.	Sunshine. 5·3.
	Pembroke.	Min. 47.
	Baldonnell.	Grass min. 42.
26th	Calshot.	13h bar. change. "-2"
	Ross-on-Wye.	7h bar. 1012·5: weather o/s humidity 97
	Kew.	Sunshine. 7·5
	Donaghadee	Max. 48
	Pembroke	Max. 59
	"	Min. 43.

‡ The barometric change is expressed in half millibars.