

AIR MINISTRY.

**METEOROLOGICAL OFFICE,**  
**LONDON.**

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**DAILY WEATHER REPORTS**

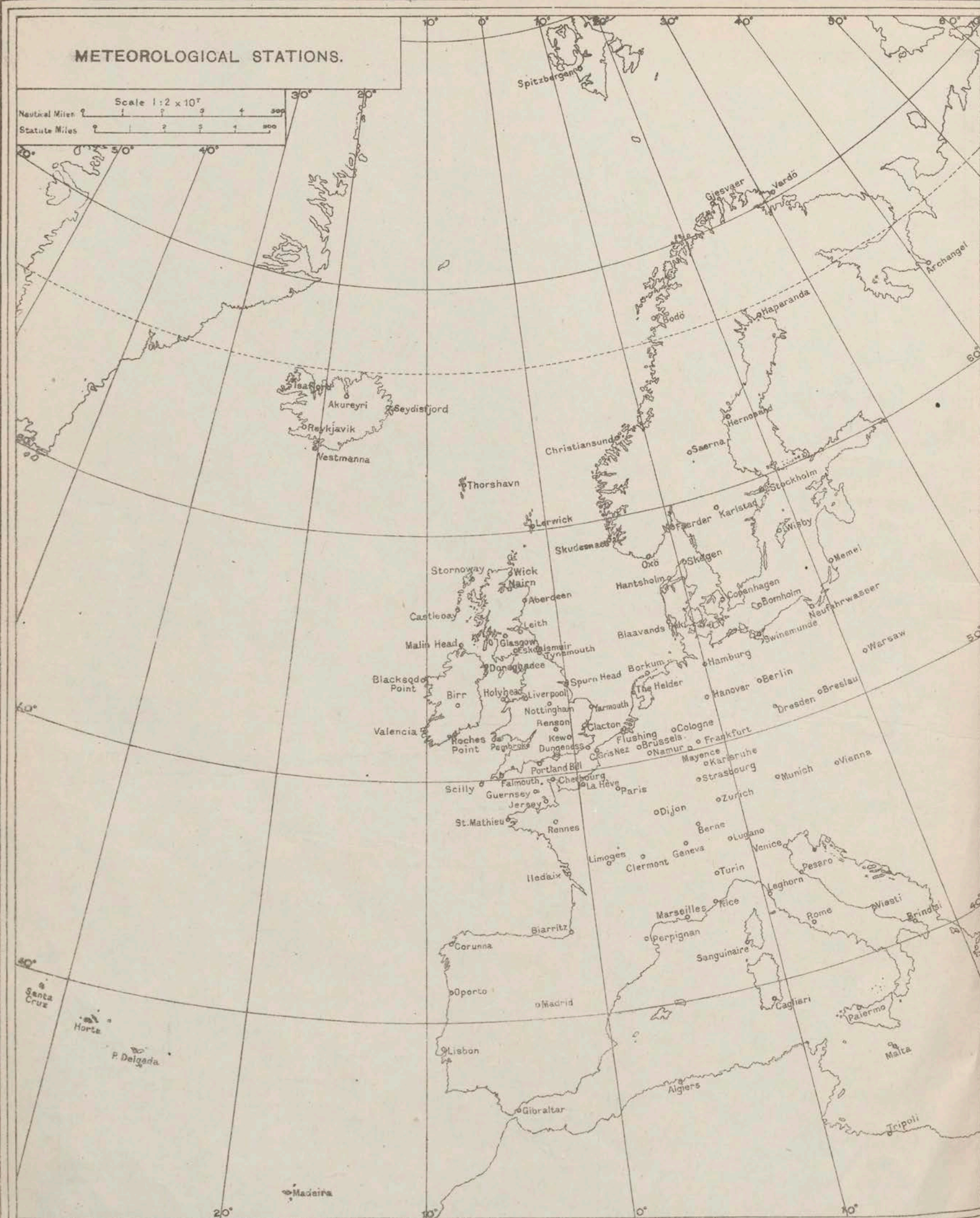
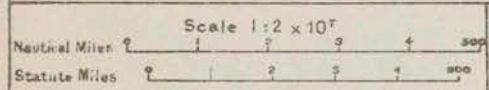
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1st OCTOBER TO 31st DECEMBER, 1919.

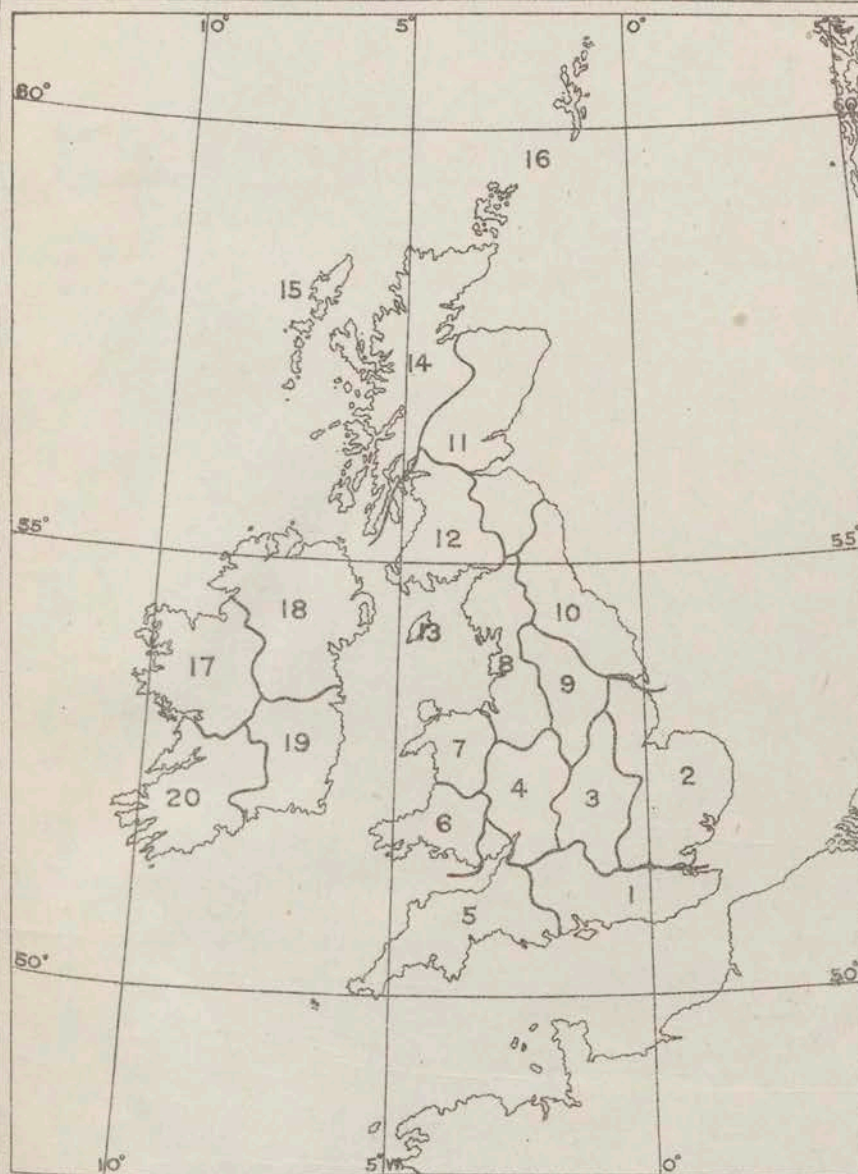


METEOROLOGICAL STATIONS.

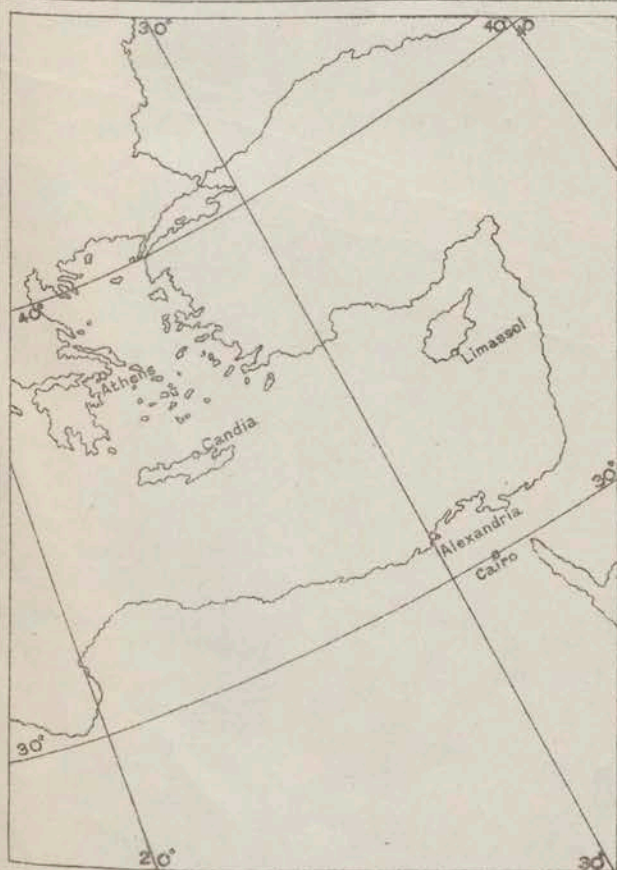




# DISTRICTS.



# STATIONS USED FOR UPPER AIR SUPPLEMENT.



# TELEGRAPHIC CODE OF SURFACE VISIBILITY.

●	{ 0 Very bad	Objects not visible beyond	200 metres (220 yards).
●	{ 1 Bad	" " "	500 " (545 yards).
●	{ 2 Very poor	" " "	1,000 " (0.6 mile).
●	{ 3 Poor	" " "	2,000 " (1.2 miles).
⊗	{ 4 Indifferent } Ordinary {	" " "	4,000 " (2.5 " ).
⊗	{ 5 Fair	" " "	7,000 " (4.3 " ).
⊗	{ 6 Good, above ordinary	" " "	12,000 " (7.5 " ).
⊗	{ 7 Very good, unusual	" " "	20,000 " (12.4 " ).
○	{ 8 Exceptionally good	" " "	30,000 " (18.6 " ).
○	{ 10 Objects visible beyond 30,000 metres (18.6 miles).		

# BEAUFORT NOTATION.

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

# BEAUFORT NOTATION.

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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

# WEATHER SYMBOLS.

Clear sky ○ Sky ½ clouded ○  
 Sky ½ clouded ⊙ Sky ¾ clouded ⊙  
 Overcast sky ⊕ Rain falling ⊕  
 Snow ❄ Hail ⚡  
 Fog ☁ Mist ☁  
 Thunder ⚡ Thunderstorm ⚡  
 Lightning ⚡ Gale ⚡  
 Aurora ☄ Solar halo ☄  
 Rime ❄ Lunar halo ☄  
 Glazed frost ☄ Solar corona ☄  
 Glazed roads ☄ Lunar corona ☄  
 Snow lying ☄

# SEA DISTURBANCE.—

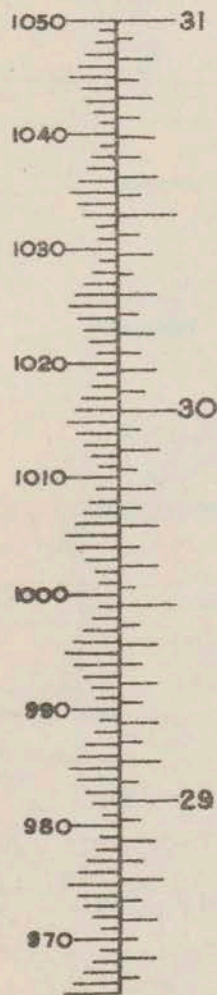
Rough ~~~~~ High ~~~~~



# AIR MINISTRY. METEOROLOGICAL OFFICE, LONDON.

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

Millibars. Inches.



**Pressure.**—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 5 millibars. Values in millibars may be converted to mercury inches by the scale given in the margin.

**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.**—Temperature at different levels in the free atmosphere up to 20,000 feet is shown graphically on 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, no reference to precipitation being implied.

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.

**Wind.**—All wind directions specified in the reports are true, not magnetic compass bearings. 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, 15,000 feet. The data are 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.*)

### 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, but not by wind vanes .. .. .	1-3
2	Slight breeze .. .. .	Wind felt on face; leaves rustle; ordinary vane moved by wind .. .. .	4-7
3	Gentle breeze .. .. .	Leaves and small twigs in constant motion; wind extends light flag .. .. .	8-12
4	Moderate breeze .. .. .	Raises dust and loose paper; small branches are moved .. .. .	13-18
5	Fresh breeze .. .. .	Small trees in leaf begin to sway; crested wavelets form on inland waters .. .. .	19-24
6	Strong breeze .. .. .	Large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty .. .. .	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; considerable structural damage occurs .. .. .	55-63
11	Storm .. .. .	Very rarely experienced; accompanied by widespread damage .. .. .	64-75
12	Hurricane .. .. .	.. .. .	Above 75



# DAILY WEATHER REPORT. APPENDIX I.

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

### FOURTH QUARTER, OCTOBER TO DECEMBER.

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

	STATIONS.	PRESSURE 1906-1915. 7 a.m. Observations (reduced to M.S. Level).	AIR TEMPERATURE.								RAINFALL 1881-1915.		BRIGHT SUNSHINE. 1881-1915.					
			Means of				Absolute Extremes.											
			1906-1915.		1881-1915.		1881-1915.				Days with Rain.	Total Fall.	Daily Mean.	Per Centage of Possible Duration.				
			Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.		Maximum.		Minimum.									
							Temp.	Year.	Temp.	Year.								
OCTOBER.	Lerwick	mb.	°F.	°F.	°F.	°F.	°F.	1908	°F.	1887	24	mm.	in.	hr.	°/o			
	Stornoway	1011.2	47.3	50.1	42.3	63		1908	28	1887	24	100	3.95	—	—			
	Castlebay (Barra Isd.)	1010.0	47.1	52.2	41.2	70		1898	27	1892	23	132	5.18	2.77	28			
	Eskaudemuir	[1011.6]§	[50.5]§	[53.6]§	[47.7]§	[61]§		[1908]§	[34]§	[1909, 1913]§	[20]§	[86]§	[3.39]§	[2.55]§	[25]§			
	Malin Head	[1014.4]¶	[42.4]¶	[51.5]¶	[38.5]¶	[65]¶		[1910]¶	[19]¶	[1911]¶	[15]¶	[100]¶	[3.93]¶	[2.39]¶	[23]¶			
	Blackod Point	1009.3	49.3	53.2	45.6	73		[1908]¶	[32]¶	[1892]¶	[20]¶	[75]¶	2.95	—	—			
	Valencia	1009.4	51.0	54.7	46.0	71		[1908]¶	[29]¶	[1905]¶	[23]¶	[127]¶	4.90	—	—			
	Roche's Point	1010.2	51.2	56.4	46.6	71		1908	28	1892	22	142	5.57	3.26	31			
	Birr Castle	1011.2	51.0	56.2	46.4	65	1884, 86, 1914, 15		32	1881	19	104	4.09	—	—			
	Donaghadee	1010.7	46.8	55.0	40.7	74		1908	22	1905	18	74	2.91	3.16	30			
	Liverpool (Observatory)	1011.3	49.2	54.3	44.3	66		1898	21	1892	18	73	2.88	—	—			
	Holyhead	1012.5	47.9	54.1	44.8	73		1908	27	1895	18	83	3.27	[2.81]§	[27]§			
	Pembroke (St. Ann's Hd.)	1011.5	51.3	55.1	46.9	75		1908	32	1892	19	101	3.99	[2.87]§	[28]§			
	Seilly (St. Mary's)	1011.4	51.6	55.6	48.1	67		1908	33	1895	19	106	4.19	3.29	31			
	Falmouth	1011.3	53.2	57.5	50.1	69		1895	38	1895, 1896	21	93	3.66	3.81	36			
	Jersey (St. Aubin's)	1013.3	51.0	56.3	47.7	67		1895	33	1895	21	126	4.96	3.74	35			
	Portland Bill	1013.3	53.4	59.0	49.1	76		1908	33	1887	20	116	4.55	4.06	38			
	Dungeness	1012.2	53.8	56.9	48.8	[67]†		[1908]†	[35]†	[1905, 1908]†	17*	94	3.68	—	—			
	Dover	1013.2	52.1	57.4	46.0	70	1886, 1908		23	1890	17	89	3.52	—	—			
	Wick	[1015.5]§	[50.7]§	[57.5]§	[46.6]§	[74]§		[1908]§	[30]§	[1909]§	[18]§	[106]§	[4.18]§	[3.81]§	[36]§			
	Nairn	1011.0	47.0	52.2	41.0	73		1898	22	1885	21	75	2.96	—	—			
	Aberdeen	1010.9	44.2	53.1	39.0	76		1908	19	1896	19	60	2.35	[3.29]†	[33]†			
	Leith	1012.2	46.6	52.8	41.7	74		1883	25	1880	20	76	3.00	3.06	30			
	Tynemouth	1011.9	47.7	54.8	42.1	75		1908	25	1894	17	61	2.41	—	—			
	Spurn Head	1012.6	47.9	54.1	42.4	77		1908	27	1890, 92, 95, 1909	17	76	3.01	—	—			
	Yarmouth	1012.8	50.7	54.6	45.9	70		1900	33	1887, 1895	17	61	2.40	[2.68]§	[26]§			
	Clacton-on-Sea	1013.6	50.6	55.2	45.3	74	1900, 1908		27	1895	18	74	2.93	[3.35]§	[32]§			
	Nottingham	1013.7	51.0	55.7	45.7	[71]†		[1908]†	[29]†	[1905]†	14	49	1.91	3.61	35			
	LONDON (Kew Obsy.)	1013.3	46.6	55.3	41.7	78		1908	20	1890	19	63	2.49	2.68	26			
	LONDON (Kew Obsy.)	1013.9	48.5	56.2	43.5	77		1886	25	1881, 1895	17	69	2.70	2.97	28			
NOVEMBER.	Lerwick	1005.3	42.3	46.2	38.9	58	1901		24	1912	25	108	4.25	—	—			
	Stornoway	1007.2	42.1	47.6	38.0	58	1897, 1901, 02		21	1912	24	148	5.83	1.43	19			
	Castlebay (Barra Isd.)	[1007.8]§	[45.4]§	[48.5]§	[41.6]§	[56]§		[1914]§	[28]§	[1912]§	[24]§	[101]§	[3.96]§	[1.57]§	[20]§			
	Eskaudemuir	[1009.4]¶	[37.6]¶	[43.2]¶	[32.4]¶	[54]¶		[1914]¶	[6]¶	[1912]¶	[20]¶	[154]¶	[6.05]¶	[2.03]¶	[25]¶			
	Malin Head	1008.4	44.6	48.6	41.7	59	[1894, 99, 1906]¶		[30]¶	[1909, 1912]¶	[21]¶	[83]¶	[3.28]¶	—	—			
	Blackod Point	1010.3	46.1	50.2	42.0	60	[1897, 1899]¶		[26]¶	[1890]¶	[24]¶	[132]¶	[5.21]¶	—	—			
	Valencia	1012.4	46.3	52.0	42.9	63	1881		27	1890, 96, 1901	23	139	5.46	2.17	25			
	Roche's Point	1013.0	45.5	51.4	42.5	61	1908, 1909		27	1890	19	107	4.20	—	—			
	Birr Castle	1011.8	40.6	49.3	36.8	64	1912		17	1909	19	75	3.10	2.13	25			
	Donaghadee	1010.4	43.7	49.4	40.1	60	1894, 1909		27	1883	19	77	3.04	—	—			
	Liverpool (Observatory)	1011.6	42.5	48.5	40.2	61	1894, 95, 99		25	1901, 05, 15	18	64	2.50	[2.27]§	[27]§			
	Holyhead	1011.3	46.3	50.2	42.9	62	1881		29	1915	19	105	4.14	[2.50]§	[30]§			
	Pembroke (St. Ann's Hd.)	1012.2	46.7	51.1	43.9	60	1911		28	1890	20	97	3.80	2.17	25			
	Seilly (St. Mary's)	1013.2	48.7	53.2	46.3	61	1898		29	1890	20	83	3.27	2.50	28			
	Falmouth	1013.9	45.1	51.6	43.9	60	1895, 1897		23	1890	20	122	4.80	2.53	29			
	Jersey (St. Aubin's)	1014.2	47.9	53.0	44.3	66	1899		16	1890	21	104	4.08	2.53	28			
	Portland Bill	1012.7	47.7	53.0	44.3	[61]†		[1900]†	[29]†	[1912]†	14	66	2.58	—	—			
	Dungeness	1012.2	44.4	50.7	40.7	63	1899		17	1890	16	70	2.75	—	—			
	Dover	[1012.9]§	[42.4]§	[48.9]§	[38.6]§	[60]§		[1914]§	[25]§	[1911]§	[16]§	[78]§	[3.07]§	[2.90]§	[33]§			
	Wick	1006.6	41.5	46.9	37.0	62	1900		12	1909	20	80	3.14	—	—			
	Nairn	1007.5	39.8	46.9	35.4	62	1906		12	1904	19	60	2.36	[1.70]†	[22]†			
	Aberdeen	1008.3	40.7	46.8	37.4	62	1889		14	1909	19	75	2.05	1.83	23			
	Leith	1009.0	42.0	48.5	38.0	62	1885		18	1885	15	50	1.95	—	—			
	Tynemouth	1009.9	41.8	48.4	38.1	62	1894		20	1912	16	54	2.13	—	—			
	Spurn Head	1010.4	43.8	48.2	40.8	61	1894, 1895		28	1884	16	47	1.85	[1.90]§	[23]§			
	Yarmouth	1011.6	43.3	48.5	39.6	60	1895, 98, 99, 1904		23	1890	18	61	2.41	[2.33]§	[27]§			
	Clacton-on-Sea	1012.4	43.0	48.5	39.7	[60]†		[1908]†	[25]†	1904	15	47	1.86	2.33	27			
	Nottingham	1011.9	40.7	48.4	37.1	63	1895		13	1904	19	48	1.88	1.37	16			
	LONDON (Kew Obsy.)	1013.2	41.9	49.1	38.8	52	1881, 94, 95		21	1901	16	56	2.22	1.73	20			
DECEMBER.	Lerwick	1000.9	40.4	43.6	36.6	53	1890, 1905		19	1909	27	122	4.79	—	—			
	Stornoway	1000.9	40.3	44.4	35.4	55	1898, 1913		16	1912	26	159	6.25	0.74	12			
	Castlebay (Barra Isd.)	[1000.5]§	[44.1]§	[46.9]§	[40.1]§	[54]§		[1912]§	[26]§	[1912]§	[26]§	[146]§	[5.74]§	[0.77]§	[12]§			
	Eskaudemuir	[1001.9]¶	[30.7]¶	[42.1]¶	[31.0]¶	[52]¶		[1910, 12]¶	[8]¶	[1912]¶	[26]¶	[104]¶	[8.04]¶	[0.74]¶	[11]¶			
	Malin Head	1001.6	42.3	45.7	38.6	55	[1900, 04, 13]¶		[28]¶	[1906, 1909]¶	[24]¶	[85]¶	[3.35]¶	—	—			
	Blackod Point	1001.0	44.4	47.5	39.9	[59]¶		[1899]¶	[25]¶	[1906]¶	[26]¶	[155]¶	[6.12]¶	—	—			
	Valencia	1005.8	45.4	49.8	41.1	57	1834, 88, 99, 1900		24	1886	26	169	6.64	1.32	17			
	Roche's Point	1006.9	44.5	48.8	40.4	57	1905		25	1882	23	135	5.32	—	—			
	Birr Castle	1005																





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

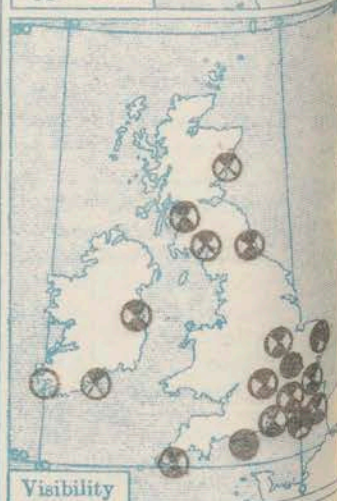
No 21,93 B MONDAY, 1<sup>ST</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	Change in 3 hours.	WIND.		Weather.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea.	BAROM. at M.S.L. m.b.	Change in 3 hours.	WIND.		Weather.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea.	
			Direc.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.				Form.	Amt. 0-10.											
13H. G.M.T. OF 30 <sup>th</sup>														18H. G.M.T. OF 30 <sup>th</sup>															
Houton B. (Orkney)	1012.1	-1	-	0	om	31	98	4	1-1500	sr	10	-	-	*	1008.3	-5	SSE	3	om	34	87	3	1-1500	sr	10	-	-	*	
Eskdalemuir ...														*														*	
Stranraer ...														*														*	
Lough Foyle ...														*														*	
Valencia (Cahire'n)	996.8	-6	SSE	6	or	50	98	3	1-1000	sr	10	-	-	3	1003.3	+7	WSW	4	bc	46	75	2	3-4000	st cu	6	-	-	4	
Anglesey (Llangefni)	1001.4	-2	SSE	5	c	42	75	8	2-3000	st cu	3	A. sr	4	3	1006.2	-5	S	7	od	44	92	-	1-1500	Nb	10	-	-	*	
Falmouth ...	1012.7	-2	S	6	cg	49	87	5	-	cu. Nb	8	-	-	*	1010.3	-2	S	7	ora	49	92	5	-	Nb	10	-	-	*	
Calshot (Hants) ...	1017.9	+1	SE	3	c	42	98	2	1-2000	sr	5	A. sr	2	3	1012.5	-1	SSW	3	o	45	92	2	2-3000	sr	10	-	-	4	
Capel (Folkestone)	1018.7	+2	SSW	1	CZ	40	75	2	2-3000	st cu	5	A. sr	2	0	1019.8	0	S	4	o	43	98	4	-	-	-	A. st	9	3	
Aberdeen ...	1009.9	0	WSW	2	bz	35	65	3	-	-	-	C	1	2	1008.3	-2	SSW	2	om	35	82	3	-	-	-	A. sr	10	2	
East Fortune ...	1010.7	-1	S	1	CZ	36	75	5	3-4000	sr	2	A. st	6	*	1007.3	-4	-	0	ox	38	75	-	3-4000	st cu	9	-	-	*	
Flamboro' Head	1014.4	+3	SW	3	om	32	98	2	-	-	-	-	-	*	1013.9	-1	SSW	5	o	37	92	1	2-3000	sr	10	-	-	*	
Felixstowe ...	1018.8	+1	WSW	1	bz	39	87	4	-	-	-	fa. cu	3	0	1019.6	0	SSW	3	bc	41	92	3	2-3000	st cu	6	-	-	3	
Cranwell (Lincs)	1016.3	+2	SSW	2	o	34	92	4	1-2000	sr	3	A. sr	7	*	1015.5	0	SE	4	c	32	98	3	1-1500	sr	3	A. st	5	*	
Bedford ...	1017.5	+1	WSW	1	of	36	87	2	1-1500	st cu	10	-	-	*	1016.5	-1	S	2	of	36	87	0	1-1500	sr	3	A. st	7	*	
Benson ...	1016.9	0	SW	1	o	34	98	5	-	-	-	-	-	*	1015.2	-1	SE	5	o	38	87	5	-	-	-	-	-	*	
London (Kew Obs.)	1018.3	0	-	0	fx	31	92	0	LS00	sr	10	-	-	*	1017.3	-2	S	2	om	39	92	3	-	sr	10	-	-	5	
1H. G.M.T. OF 1 <sup>st</sup>														7H. G.M.T. OF 1 <sup>st</sup>															
Houton B. (Orkney)	1001.9	-4	SSW	5	odm	39	98	3	-	st	10	-	-	*	1006.7	+3	SSE	3	c	34	98	6	-	sr	8	-	-	*	
Eskdalemuir ...														*														*	
Stranraer ...														*														*	
Lough Foyle ...														*														*	
Valencia (Cahire'n)	1010.9	+3	WNW	2	bc	44	*	*	*	*	*	*	*	4	1007.2	-1	S	3	bc	44	82	8	-	cu	4	-	-	4	
Anglesey (Llangefni)														*														*	
Falmouth ...	1011.2	+3	W	2	og	47	98	5	-	st	10	-	-	*	1009.0	+3	SW	2	b	40	92	5	2-3000	st cu	1	A. sr	1	3	
Calshot (Hants) ...	1014.1	-1	SW	4	or	45	98	0	1-2000	Nb	10	-	-	3	1008.6	0	SW	4	or	42	92	0	1-2000	Nb	10	-	-	3	
Capel (Folkestone)	1018.2	-1	S	7	cg	45	98	4	3-4000	st cu	8	-	-	?	1016.1	-3	S	6	ora	44	98	4	1-1000	Nb	10	-	-	?	
Aberdeen ...														*														*	
East Fortune ...	998.8	-10	S	6	ox	41	87	?	1-2000	Nb	10	-	-	*	1001.7	+4	SW	3	b	39	82	7	-	-	-	-	-	2	
Flamboro' Head														*														*	
Felixstowe ...														*														*	
Cranwell (Lincs)	1011.2	-4	SE	4	o	37	98	3	1-2000	Nb	10	-	-	*	1014.1	0	SW	5	ora	33	98	4	3-4000	Nb	10	-	-	4	
Bedford ...	1012.0	-4	S	6	ox	44	87	2	LS00	st	10	-	-	*	1010.7	+2	WSW	2	ora	45	92	1	1-1500	st	10	-	-	*	
Benson ...		*	*	*	*	*	*	*	*	*	*	*	*	*	1011.3	0	SSW	3	ora	45	98	4	-	Nb	10	-	-	*	
London ...	1014.4	-3	*	*	o	*	*	*	*	*	*	*	*	*	1012.4	+2	SSW	1	or	45	98	4	-	Nb	10	-	-	*	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND.		Weather.	TEMP. °F.	Change in 24 hours.	WIND.	Direc. of Upper Cloud.	Weather.	Sea.	Rainfall mm.	TEMP.			WEATHER.			Sunshine Hours.										
			Direc.	Force 0-12.				Direc.	Force.				Max. °F.	Min. °F.	Morning.	Afternoon.	Night.												
18H. G.M.T. OF 30 <sup>th</sup>														7H. G.M.T. OF 1 <sup>st</sup>										24 HOURS ENDED 7H. OF 1 <sup>st</sup>				24 HOURS ENDED 18H. OF 30 <sup>th</sup>	
Lerwick ...	1006.5	37	-	0	c	996.7	-6	43	+6	S	3	-	omr	2	4	44	34	omp	cm	omp	*								
Stornoway ...	999.6	40	S	4	o	997.8	+4	40	+8	SSW	4	-	op	3	10	44	31	6.0	o	ora op	0.0								
Castlebay (Barra Is)	997.0	45	SSE	7	or	999.8	+2	45	+1	WNW	4	-	c	4	11	47	41	bc.0	or	T.O.C	0.0								
Glasgow ...	1005.8	37	SE	3	odm	1005.1	+4	40	+12	SSW	3	-	c	*	2	42	26	cmx	c.opm	od.cbc	0.0								
Main Head ...	995.1	44	S	5	o	1001.6	+2	44	+9	SW	4	SW	cp	4	1	45	33	c	or	bc	0.0								
Blacksod Point	996.4	44	W	2	op	1002.3	+1	45	+8	WSW	4	-	cm	4	13	50	34	cr	cp	cm	*								
Roche's Point...	1022.2	48	W	2	o	1009.4	0	40	-7	WSW	1	-	b	5	14	50	39	orm	rmo	o.b	*								
Burr Castle ...	999.2	36	S	1	o	1007.1	*	34	-1	SW	1	-	bc	*	5	44	33	or	or.o	c.bex	0.0								
Donaghadee ...	1002.7	46	S	5	omgr	1008.4	+2	37	+6	W	1	-	bc	1	6	47	31	bcm	omgr	bc	*								
Liverpool (Bidston)	1009.5	37	SE	4	o	1009.6	+2	40	+7	SW	3	-	o	3	2	45	33	om	om	opq	0.2								
Holyhead ...	1004.9	46	S	7	opxt	1008.6	+1	43	+3	SW	3	-	bm	2	7	46	39	bc. om	c. orq	ora bm	0.0								
Pembroke (St. Ann's Head)	1006.5	48	S	6	qr	1010.8	0	47	+3	W	3	-	o	4	9	50	44	c.o	ogr	bc.o	0.1								
Scilly (St. Mary's)	1008.4	50	SSE	6	rm	1011.7	0	46	0	-	0	-	o	3	7	51	45	c.o	orm	om	0.0								
Jersey (St. Aubin)	1017.8	45	SSE	5	o	1012.6	-2	48	+14	S	5	-	ogr	4	7	49	34	bc.o	o.bc.o	ac.ogr	4.7								
Portland Bill ...	1014.9	48	S	6	og	1010.9	0	47	+7	NW	5	-	r	6	20	53	37	bc	c.og	rq	*								
Dungeness ...	1018.1	46	SW	3	bc	1014.0	-2	46	+17	SW	5	-	r	4	0.3	47	27	b.	bc	cg.c.or	*								
Wick ...	1004.4	39	S	3	o	997.4	+2	38	+4	WSW	3	-	bc	4	3	42	33	bc.bc.o	bc.o	omp bc	*								
Nairn ...	1004.1	37	-	0	c	999.5	*	37	+5	W	1	-	bc	1	1	41	29	bc	bc.eg	cpq	2.4								
Leith ...	1006.7	38	SSE	2	o	1003.1	+1	40	+10	SW	2	-	b	2	1	43	29	bc.b	bm.o	od.o.b	*								
Tynemouth ...	1010.4	37	WSW	2	of																								



# SUMMARY OF CONDITIONS AT 7 A.M. Monday, 1st December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-SW 10-25	Mild	Dull; local mist; rain.	Ord.	Mod.
2. E. England	S-SW 15-25	"	Dull; local mist; rain	"	"
3. E. Midlands	S-SW 10-15	"	Dull; local <sup>squally</sup> mist; rain.	Fair	-
4. W. Midlands	SW-W. 10-15	"	Dull; local rain and mist	"	-
5. S.W. England	W-NW 5-20	Mod.	Dull; local rain.	Ord.	Var.
6. South Wales	W. 10.	Mild.	Dull.	"	Mod.
7. North Wales	S-SW 5-10	Mod.	Fair; local mist.	"	Slight
8. N.W. England	S-SW 5-10	"	Cloudy to dull.	"	"
9. N. Midlands	SW-W. 2-5.	Mild.	Dull; local mist	"	-
10. N.E. England	S-W 2-5.	Mod.	Fair to dull.	"	Slight.
11. E. Scotland	SW-W 10-15	"	Fair to fine.	Good.	Slight.
12. S.W. Scotland	S-SW 10.	"	Cloudy; local rain.	"	"
13. Isle of Man	SW-W 5-10.	"	Fair to cloudy.	Ord.	"
14. N. & N.W. Scotland	SW-W. 10.	"	Fair to cloudy.	-	Mod.
15. Hebrides	S-SW 15-20	"	Cloudy to dull; local	-	Slight
16. Orkneys and Shetlands	S. 10.	"	showers. Cloudy to dull; local rain	-	Smooth.
17. N.W. Ireland	SW-W 15-20	"	and mist. Cloudy; local showers.	-	Mod.
18. N.E. Ireland	SW-W 2-5.	v. cool.	Fair to cloudy.	-	Smooth.
19. S.E. Ireland	SW-W 5-10	Cool.	Fair to fine.	Ord.	Slight
20. S.W. Ireland	S-SW 2-10.	Mod.	Fair to fine; local showers.	Good.	"



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

GENERAL INFERENCE from observations received up to 9 a.m.

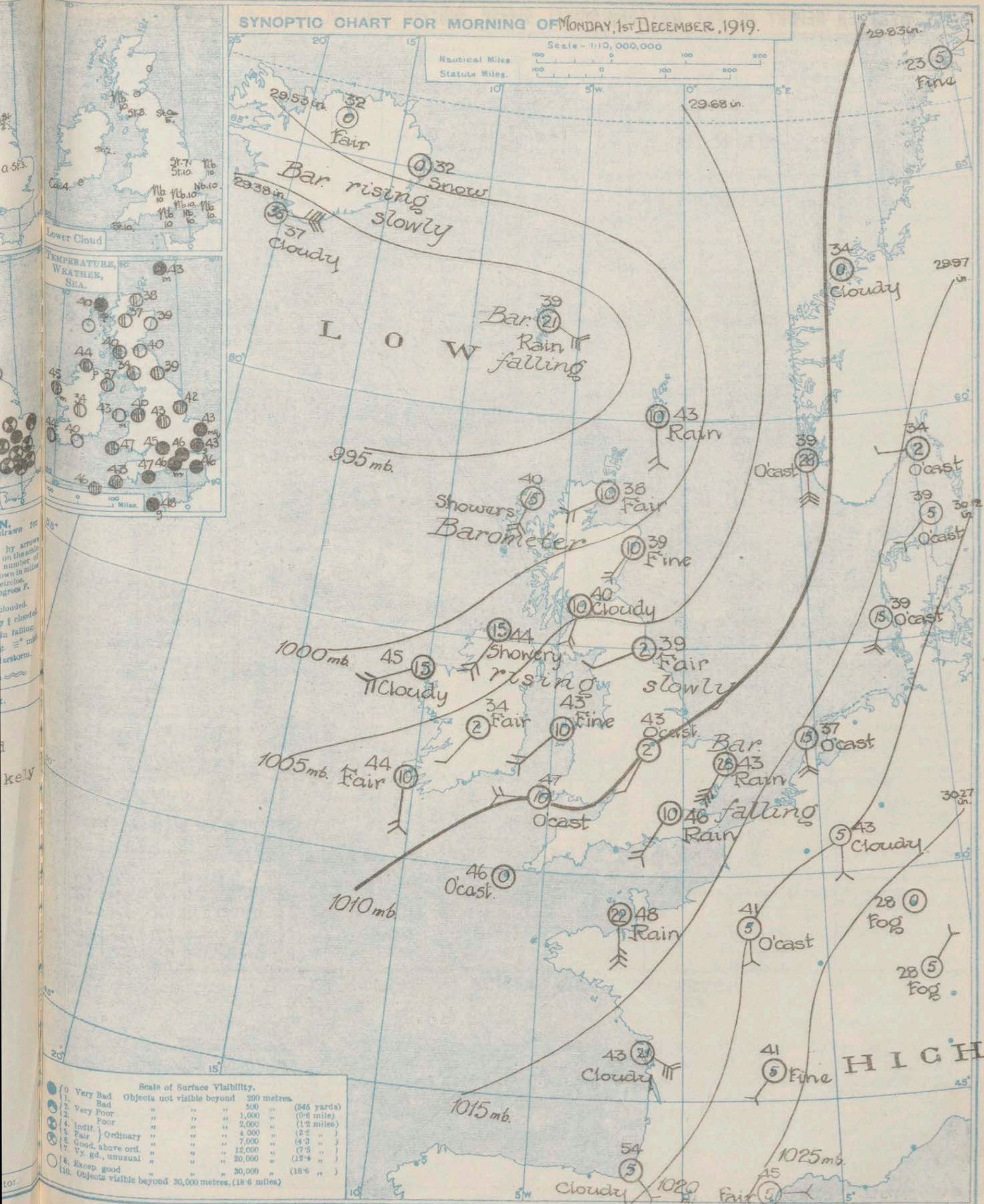
A depression between Iceland and Scotland is moving N.E. and a secondary depression is indicated off S.W. Ireland. Rather mild unsettled weather is probable generally.

Districts.	Forecasts for the 24 hours commencing 3 p.m. Monday, 1st December, 1919.	Further Outlook.
1. S.E. England	Moderate winds between S. and W., fresh locally. Cloudy, or overcast, some rain or showers. Temporarily fair intervals. Rather mild.	Rather mild unsettled weather is likely to continue beyond the forecast period.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales		
7. North Wales	Light or moderate winds between S. and W. Mainly cloudy with fairer intervals, some rain or showers. Rather mild.	
8. N.W. England		
9. N. Midlands		
10. N.E. England	Same as 6 - 10.	
11. E. Scotland		
12. S.W. Scotland		
13. Isle of Man	Same as 11 - 12.	
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands	Moderate winds between S. and W. freshening. Cloudy or dull, rain at times. Rather mild.	
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		



# SYNOPTIC CHART FOR MORNING OF MONDAY, 1st DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles 0 100 200 300  
Statute Miles 0 100 200 300



## Scale of Surface Visibility.

Objects not visible beyond	200 metres	500 "	1,000 "	2,000 "	4,000 "	7,000 "	12,000 "	20,000 "	30,000 "
(1) Very Bad	"	"	"	"	"	"	"	"	"
(2) Very Poor	"	"	"	"	"	"	"	"	"
(3) Poor	"	"	"	"	"	"	"	"	"
(4) Indif.	"	"	"	"	"	"	"	"	"
(5) Fair	"	"	"	"	"	"	"	"	"
(6) Good, above ord.	"	"	"	"	"	"	"	"	"
(7) Vy. gd., unusual	"	"	"	"	"	"	"	"	"
(8) Excep. good	"	"	"	"	"	"	"	"	"
(10) Objects visible beyond	30,000 metres, (18.6 miles)								



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 335B

Monday,  
1st December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30 <sup>th</sup>																		
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 29 <sup>th</sup>	Day. 9h-17h. 30 <sup>th</sup>	Sunrise to Sun- set. 30 <sup>th</sup>			Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 29 <sup>th</sup>	Day. 9h-17h. 30 <sup>th</sup>	Sunrise to Sun- set. 30 <sup>th</sup>	
Scotland.	Oban ... ..								England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	bx	bc.cx	43	39	-	-	3.8		Blackpool ... ..								
	Montrose ... ..									Southport ... ..	o	o	44	37	3	-	0.0	
	St. Andrews ... ..																	
England, N.E.	Harrogate ... ..	bcx.f.	bcf	35	26	0.3	-	0.1	Midlands.	Buxton ... ..								
	Skegness ... ..									Leamington Spa... ..	c.bm	c.b.	39	23	-	-	1.0	
										Malvern ... ..								
										Ross-on-Wye ... ..								
England, E.	Felixstowe ... ..								Wales.	Rhyl ... ..	xc.c	c	44	27	-	-	0.3	
	Walton-on-Naze... ..									Colwyn Bay ... ..	-	-	43	28	-	1	0.2	
	Southend-on-Sea... ..			43	31	-	-	3.5		Llandudno ... ..	ot	ot	44	28	-	1	0.0	
										Aberystwyth ... ..								
England, S.E.	Margate ... ..								England, S.W.	Weymouth ... ..								
	Ramsgate ... ..	bc	bc	43	27	6	-	3.8		Teignmouth ... ..								
	Folkestone ... ..	b.bc.	bc.b.	46	32	-	-	4.9		Torquay ... ..	b.bcm	c.o	49	31	-	-	0.2	
	Hastings ... ..									Paignton ... ..								
	Eastbourne... ..									Penzance ... ..	o.c.	c.ot	65	51	-	2	0.0	
	Brighton ... ..									Newquay ... ..	c.v.	o.ot	50	32	4	1	0.2	
	Worthing ... ..	bc.b.	bc.c.	46	26	-	-	2.9		Bude ... ..								
	Littlehampton ... ..	x.bcm	o	48	46	-	-	3.0		Ilfracombe ... ..								
	Bournemouth ... ..			47	26	-	-	1.7		Weston-s-Mare ... ..								
	Tunbridge Wells ... ..	b.bc.	c.b.	46	25	-	-	0.0										

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass ° F.	RAINFALL.		Sun. Hours.	b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog. g gloom. h hail. l lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	No.	Limits of Velocity.		
	7h-13h. <sup>30h.</sup>	13h-18h. <sup>30h.</sup>	18h-24h. <sup>1st.</sup>	1h-7h. <sup>1st.</sup>				Day. 7h-18h.	Night. 18h-7h.				Statute miles per hour.	Metres per second.	
†Houton Bay (Orkney)... Eskdalemuir ... .. †Stranraer ... .. †Lough Foyle ... .. Valencia (Cahirciveen) ...	ofe ome ome ome ome	ome ome ome ome ome	ome ome ome ome ome	ome ome ome ome ome	40 21 30 52 42	21 30 37 20 1	30 Trace * * *	9 9 * * *	0.0 0.0 * * 0.0	0 1 2 3 4 5 6 7 8 9 10 11 12	Less than 1 1-3 4-7 8-12 13-18 19-24 25-31 32-33 39-46 47-54 55-63 64-75 Above 75	Less than 0.3 0.3-1.5 1.5-3.3 3.4-5.4 5.5-7.9 8.0-10.7 10.8-13.8 13.9-17.1 17.2-20.7 20.8-24.4 24.5-28.4 28.5-32.5 33.6 or above			
†Anglesey (Llangefni) ... Falmouth ... .. †Calshot (Hants) ... .. †Capel (Folkestone)... ..  Aberdeen ... .. †East Fortune ... .. †Flamborough Head ... .. †Felixstowe ... .. †Cranwell (Lines) ... .. †Bedford ... .. Benson ... .. London (Kew Obsy.) ...	b.bc.c bc.cq Z bc.c  bxz bc.c zx bz bc.c c.o c.o b dmx.fx	c.oq ogq Z cz  bxz c.o oz bcw c.o c.o bc.o fx.om	omr.b o o q  omr.b q  om												

**BEAUFORT NOTATION.**  
b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog.  
g gloom.  
h hail.  
i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

THE BEAUFORT SCALE OF WIND FORCE.		
No.	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	1.6-3.3
3	8-12	3.3-5.4
4	13-18	5.4-7.9
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	33.6 or above

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 1=heavy. Underlining is used to express continuity.

**SYMBOLS—**  
Aurora ☄ Solar halo ☉  
Rime ☃ Lunar halo ☾  
Glazed frost ☑ Solar corona ☉  
Glazed roads ☑ Lunar corona ☾

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	Morning	Afternoon.	Night.						15 h. G.M.T.	9 h. G.M.T.		1 <sup>st</sup> & 2 <sup>nd</sup> December, 1919.			
	24 HOURS ENDED 30 G.M.T. ... 1 <sup>st</sup> ...								YESTERDAY.	TO-DAY.		Stations.      Sunrise.      Noon.      Sunset.			
Greenwich (Royal Observatory)	c	c.o	od. or	46	29	29	4	1.9	78	92	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Yarmouth... {	G.M.T.	G.M.T.	G.M.T.
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*			G.M.T.	G.M.T.	G.M.T.
Westminster (St. James's Park)	*	*	*	47	31	25	5	0.0	84	92			7.42	11.42	3.43
(Admiralty Arch)	6mx.bf	bcm.cm	o.omqr	47	33	*	5	0.0	81	96			7.43	11.42	3.42
Camden Sq. (British Rainfall)			*	47	31	29	6	0.0	-	95			7.45	11.49	3.54
Kensington Palace ...	of	of	*	47	29	36	5	*	18.88	97	Total.....172..... Joules.	Greenwich {	7.46	11.49	3.53
											Milliwatts.	Wick ... {	8.38	12.1	3.25
											Average Rate. 5.9	Valencia ... {	8.39	12.1	3.24
											Maximum Rate. 14		8.28	12.30	4.32
													8.29	12.30	4.32

## NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperatures were mainly between 40° and 50° but reached 52° at Valencia and 51° at Scilly and Penzance. The highest temperature reached at Harrogate during the day was 35°. Sunshine amounts were poor generally, the highest amount being reported from Folkestone (4.9 hours). A good deal of rain fell in the Western districts at night. Valencia reported a rainfall of 21 m.m. Portland 20 m.m., Roche's Point 14 m.m. and Blacksod Point 13 m.m.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21,948 TUESDAY, 2ND DECEMBER, 1919.

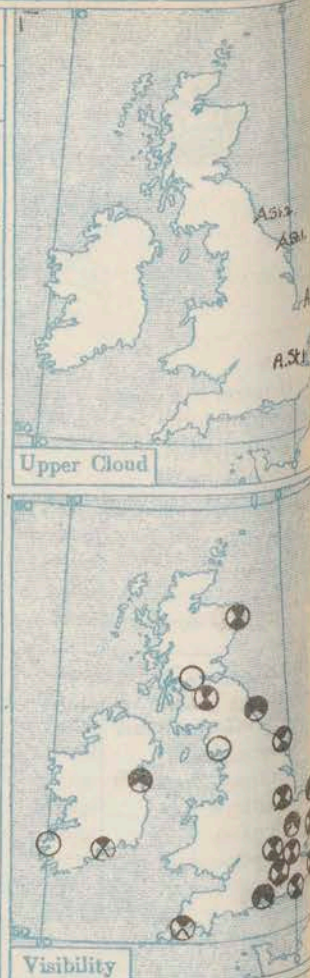
OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1h, 7h, 13h AND 19h.

STATIONS	13h. G.M.T. 1st														19h. G.M.T. of 1st														
	Barom. at M.S.L. m.b.	Change in 3 hours.	Wind. Direc.	Force 0-12.	Weather	Temp. °F.	Humidity %	Visibility 0-10.	Height of Low Cloud Feet.	Low Cloud Form.	Amt. 0-10.	Upper Cloud Form.	Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. m.b.	Change in 3 hours.	Wind. Direc.	Force 0-12.	Weather	Temp. °F.	Humidity %	Visibility 0-10.	Height of Low Cloud Feet.	Low Cloud Form.	Amt. 0-10.	Upper Cloud Form.	Amt. 0-10.	Sea 0-9.	
Houton B. (Orkney)	1007.6	0	S	X	om	38	98	4	1-1500	St	10	-	-	*	1008.7	-2	S	2	bcm	36	98	5	-	St	4	C.S	2	*	
Esksdalemuir	1007.6	0	S	X	om	38	98	4	1-1500	St	10	-	-	*	1008.7	-2	S	2	bcm	36	98	5	-	St	4	C.S	2	*	
Stranraer	1007.6	0	S	X	om	38	98	4	1-1500	St	10	-	-	*	1008.7	-2	S	2	bcm	36	98	5	-	St	4	C.S	2	*	
Lough Foyle	1002.6	-7	S	5	0	47	97	8	2-3000	S.Cu	9	-	-	5	1000.1	-1	S	4	op	43	97	2	2-3000	St	10	-	-	5	
Valencia (Cable'n)	1002.6	-7	S	5	0	47	97	8	2-3000	S.Cu	9	-	-	5	1000.1	-1	S	4	op	43	97	2	2-3000	St	10	-	-	5	
Anglesey (Llangetty)	1008.1	-3	SSW	3	C	45	97	8	2-4000	S.Cu	2	A.Sr	2	3	1006.6	-2	S	3	b	41	92	1	1-2000	S.Cu	2	-	-	2	
Falmouth	1011.7	0	SW	3	C	47	92	5	-	Cu.N	2	A.Sr	6	*	1010.9	-1	SSW	4	b	44	75	7	-	-	C.C	1	*		
Calshot (Hants)	1011.5	0	NNE	4	0	43	92	4	1-2000	Nb	10	-	-	3	1010.5	+2	W	1	0	39	99	3	1-2000	St	7	A.Sr	2	3	
Capel (Folkestone)	1011.5	-6	SSW	6	OT	43	98	1	4-500	Nb	10	-	-	3	1008.6	-4	SSW	6	OC	46	98	3	2-1000	Nb	10	-	-	5	
Aberdeen	1004.5	0	SSW	3	b2	42	75	5	-	-	C.C	1	2	1004.1	-1	SSW	2	b2	38	92	4	-	-	-	A.Sr	2	2		
East Fortune	1005.8	-1	SW	2	bc	42	79	7	2-3000	St	2	C	4	*	1004.6	-2	-	0	C	36	97	-	1-500	St	2	C.S	4	*	
Flamboro' Head	1009.3	-1	SW	2	0	40	92	3	1-1500	St	10	-	-	*	1008.5	-1	-	0	0	37	98	3	1-1500	St	10	-	-	*	
Felixstowe	1012.4	-4	SSW	4	OTf	43	98	4	2-3000	Nb	10	-	-	*	1009.2	-3	NNE	3	OTf	41	98	3	1-1500	Nb	10	-	-	4	
Cranwell (Lincs)	1010.3	-2	WSW	1	0	42	92	3	1-2000	St	10	-	-	*	1013.5	-1	SSW	1	0	59	92	1	2-3000	St	7	A.Sr	3	*	
Bedford	1014.4	-2	SSW	1	OT	42	92	2	4-500	St	10	-	-	*	1010.6	0	?	2	om	39	92	2	2-4000	St	10	-	-	*	
Benson	1010.4	-2	NW	2	OT	41	99	4	-	-	-	-	-	*	1011.2	0	-	0	C	37	98	6	-	-	C	5	*		
London (Kew Obs.)	1010.0	-4	N	2	OTm	42	85	3	2-3000	Nb	7	A.Sr	3	*	1011.0	+2	-	0	om	40	92	3	2-3000	St	8	A.Sr	2	*	
1h. G.M.T. of 2nd														7h. G.M.T. of 2nd															
Houton B. (Orkney)	1000.2	-6	SSE	3	OTsm	35	98	3	-	St	10	-	-	*	999.7	-2	SW	4	Nf, 0	37	97	4	-	Nb	9	-	-	*	
Esksdalemuir	1000.2	-6	SSE	3	OTsm	35	98	3	-	St	10	-	-	*	999.7	-2	SW	4	Nf, 0	37	97	4	-	Nb	9	-	-	*	
Stranraer	1000.2	-6	SSE	3	OTsm	35	98	3	-	St	10	-	-	*	999.7	-2	SW	4	Nf, 0	37	97	4	-	Nb	9	-	-	*	
Lough Foyle	1000.0	0	W	4	bc	45	*	*	*	*	*	*	*	*	1000.4	+6	WNW	3	bc	45	75	10	2-3000	St.Cu	3	-	-	3	
Valencia (Cable'n)	1000.0	0	W	4	bc	45	*	*	*	*	*	*	*	*	1000.4	+6	WNW	3	bc	45	75	10	2-3000	St.Cu	3	-	-	3	
Anglesey (Llangetty)	1001.1	-3	S	2	0	40	98	-	1-1000	St	10	-	-	3	1000.4	-1	WSW	3	C	40	87	6	2-3000	St.Cu	7	-	-	*	
Falmouth	1006.1	-2	SW	4	b	46	92	5	-	Nb	2	-	-	*	1012.0	0	WNW	5	b	44	97	4	-	Cu.Nb	3	-	-	*	
Calshot (Hants)	1011.1	-2	W	5	bc	41	98	1	1-2000	St	5	-	-	3	1002.2	-4	SSW	7	OC	48	97	2	1-2000	Nb	10	-	-	*	
Capel (Folkestone)	1014.5	+3	SW	1	bc	27	98	5	4-5000	St.Cu	3	C.S	2	-	1008.4	-5	S	7	0	45	97	4	1-1500	St.Cu	10	-	-	*	
Aberdeen	1000.4	-4	SE	2	0	39	82	-	2-3000	St.Cu	9	-	-	*	995.5	-5	SSE	2	OC	42	87	5	-	Nb	10	-	-	2	
East Fortune	1000.4	-4	SE	2	0	39	82	-	2-3000	St.Cu	9	-	-	*	994.6	-3	SSW	3	bc	39	87	4	3-4000	St.Cu	5	-	-	*	
Flamboro' Head	1006.4	-2	SW	3	bc	36	98	3	2-3000	St	3	A.Sr	2	*	999.6	-2	SW	5	0	40	92	4	1-1500	St.Cu	9	A.Sr	1	*	
Felixstowe	1007.2	-3	SE	5	bc	34	98	4	2-3000	St	3	A.Sr	2	*	1003.5	-4	SSW	5	OC	45	92	5	1-1500	St.Cu	10	-	-	*	
Cranwell (Lincs)	1007.2	-3	SE	5	bc	34	98	4	2-3000	St	3	A.Sr	2	*	1001.2	-4	S	2	OC	41	?	4	1-1500	?	10	-	-	*	
Bedford	1009.0	-4	SSW	4	bcq	39	92	4	-	-	-	A.Sr	4	*	1001.2	-8	SSW	5	OC	45	87	3	1-1500	St	10	-	-	*	
Benson	1038.9	-2	*	*	*	*	*	*	*	*	*	*	*	*	999.9	-7	S	4	OC	48	97	4	-	Nb	10	-	-	*	
London (Kew Obs.)	1038.9	-2	*	*	*	*	*	*	*	*	*	*	*	*	1002.4	-8	SSW	5	OC	47	92	4	2-3000	St	9	A.Sr	1	*	
STATIONS CONTRIBUTING REPORTS AT 7h AND 19h.																													
STATIONS	Barom. at M.S.L. m.b.	Temp. °F.	Wind. Direc.	Force 0-12.	Weather	Barometer. at M.S.L. m.b.	Change in 3 hours.	Temperature. °F.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Dirac. of Upper Cloud.	Weather	Sea 0-9.	Rainfall mm.	Max. °F.	Min. °F.	Morning.	Afternoon.	Night.	Sunshine Hours.								
	19h. G.M.T. of 1st														7h. G.M.T. of 2nd														
Lerwick	1001.2	44	SW	3	cm	998.8	0	44	+1	SSE	4	5	cm	2	trace	45	38	omp	cm	cm	*								
Stornoway	997.4	45	SSW	5	C	992.7	0	38	-2	SSW	4	-	C	2	3	45	38	opcb.	bcop	C	3.2								
Castlebay (Barra)	996.5	46	SSE	5	0	993.6	+1	42	-	NW	4	-	bcp	4	4	47	40	copc	cop	op. bcp	0.5								
Glasgow	1004.3	37	S	2	b	995.0	-1	38	-2	SW	1	-	cm	3	3	41	36	coc	bcemb	op. bcp	1.0								
Malin Head	996.5	41	SW	4	OT	995.4	+1	42	-2	SW	4	SW	C	3	trace	45	37	bc	C	cp	3.8								
Blackad Point	995.7	42	SW	3	OT	999.3	+4	42	-3	WNW	3	-	bc	2	18	44	39	omr	om	col. bcp	*								
Roche's Point	1002.7	48	SW	4	0	1003.7	+3	35	-5	-	-	-	b	4	8	49	35	bcc	oro	op. c. b.	*								
Birr Castle	999.0	42	S	2	0	1001.1	*	33	-1	W	1	W	b	*	4	45	32	C	c. opb	op. bcp	3.6								
Donaghadee	1003.4	42	SW	1	cm	997.5	+1	38	+1	SW	1	-	cm	1	3	46	32	bc	C	omr.	*								
Liverpool (Bidston)	1007.4	41	SSE	2	b	998.7	-2	39	-1	SW	3	SW	bc	2	trace	44	37	b.	bm	c. o. bc	1.6								
Holyhead	1005.7	46	SW	4	bc	998.3	+1	43	0	W	4	-	cg	4	4	50	41	bcp	bc	ours. c	?								
Pembroke (St. Ann's Head)	1007.3	48	S	4	bc	1000.6	-1	45	-2	WNW	4	-	bu	5	15	49	45	ocbcv	bcv	cg. pbc	3.2								
Scilly (St. Mary's)	1010.1	48	SSW	4	C	1003.3	+3	46	0	NW	5	-	C	6	19	51	43	bc	C	cg.	3.2								
Jersey (St. Aubin)	1013.5	45	W	3	b	1007.9	-4	51	+3	S	6	-	0	4	9	51	43	ogt	ogt. cb	b. o	0.0								
Portland Bill	1012.6	47	SW	4	bc	998.9	-10	50	-3	NW	5	-	cg	7	28	51	42	or	obc	cg	*								
Dungeness	1007.3	48	SW	6	C	1006.2	?	48	+2	SSW	8	SW	CG	7	14	48	39	orcr	cr. qe	cg. qe	*								
Wick	1000.9	41	SSW	3	bc	995.5	-3	42	+4	SSW	4	-	omr.	3	-	43	36	bc	bc	bc. omr.	*								
Nairn	1000.4	34	-	0	bc	992.7	*	38	-1	-	-	-	OC	1	-	42	34	bcb	bcb	cg	5.5								
Leith	1003.6	38	SE	1	b	994.0	-2	40	0	SW	1	SW	C	2															



# SUMMARY OF CONDITIONS AT 7 A.M. Tuesday, 2nd December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-SSW 25-40.	Mild	Cloudy to dull; heavy rain locally; squally.	Ord.	High
2. E. England	S-SW 15-25.	"	Dull; local rain, squally.	"	r. rough
3. E. Midlands	S-SSW 15-20	"	Dull; rainy.	"	"
4. W. Midlands	SW-W 15-20	"	Cloudy to dull; local rain	"	"
5. S.W. England	WSW-NW 25-40	Mod.	Fair to cloudy; local rain	Good.	rough.
6. South Wales	W-NW 15-20.	"	Fair.	v. good.	r. rough
7. North Wales	W-SW 15-25.	"	Fair to cloudy.	Ord.	Mod.
8. N.W. England	SW-W 10-15.	"	Fair to cloudy.	-	Slight
9. N. Midlands	S-SW 2-10	Mild.	Cloudy to dull, local rain.	-	-
10. N.E. England	SW-W 10-20.	Mod.	Dull.	Ord.	Slight
11. E. Scotland	SSE-SSW 5-15	"	Fair to dull; local rain	Fair	Slight
12. S.W. Scotland	SW 5-15.	"	Dull; rain and mist.	Ord.	"
13. Isle of Man	SW-W 5-10	"	Cloudy to dull.	-	Smooth
14. N. & N.W. Scotland	S-SW 10-15	"	Cloudy to dull, local rain.	-	Slight
15. Hebrides	SW-NW 5-15	"	Fair to cloudy; local showers.	Good.	"
16. Orkneys and Shetlands	S-SW 5-15	r. warm.	Cloudy to dull.	-	Smooth
17. N.W. Ireland	SW-NW 10-15	Mod.	Fair to cloudy.	-	Slight
18. N.E. Ireland	SW-W 5-10	r. cool	Fair to cloudy.	-	"
19. S.E. Ireland	SW-W 5-10	"	Fair to fine.	Good.	Mod.
20. S.W. Ireland	W-NW 5-10.	Mod.	Fair to fine.	V. good	"



GENERAL INFERENCE from observations received up to 9 a.m.

A depression is situated between Scotland and Iceland and a secondary depression over England and Scotland is moving N.E. Unsettled conditions are indicated in the North and East.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn at intervals of five millibars.  
**WIND.**—Direction is shown by arrow flying with the wind. Force, on the 0-12, is indicated by the number of feathers. Mean velocity is shown in small circles per hour by figures in small circles.  
**TEMPERATURE** is given in degrees F.  
**WEATHER SYMBOLS.**  
 ○ clear sky. ○ sky & clouds. ○ sky & clouds. ○ overcast sky. ● rain falling. \* snow. ▲ hail. ≡ fog. ≡ thunder. ≡ thunderstorm.  
**SEA DISTURBANCE.**—Rough High

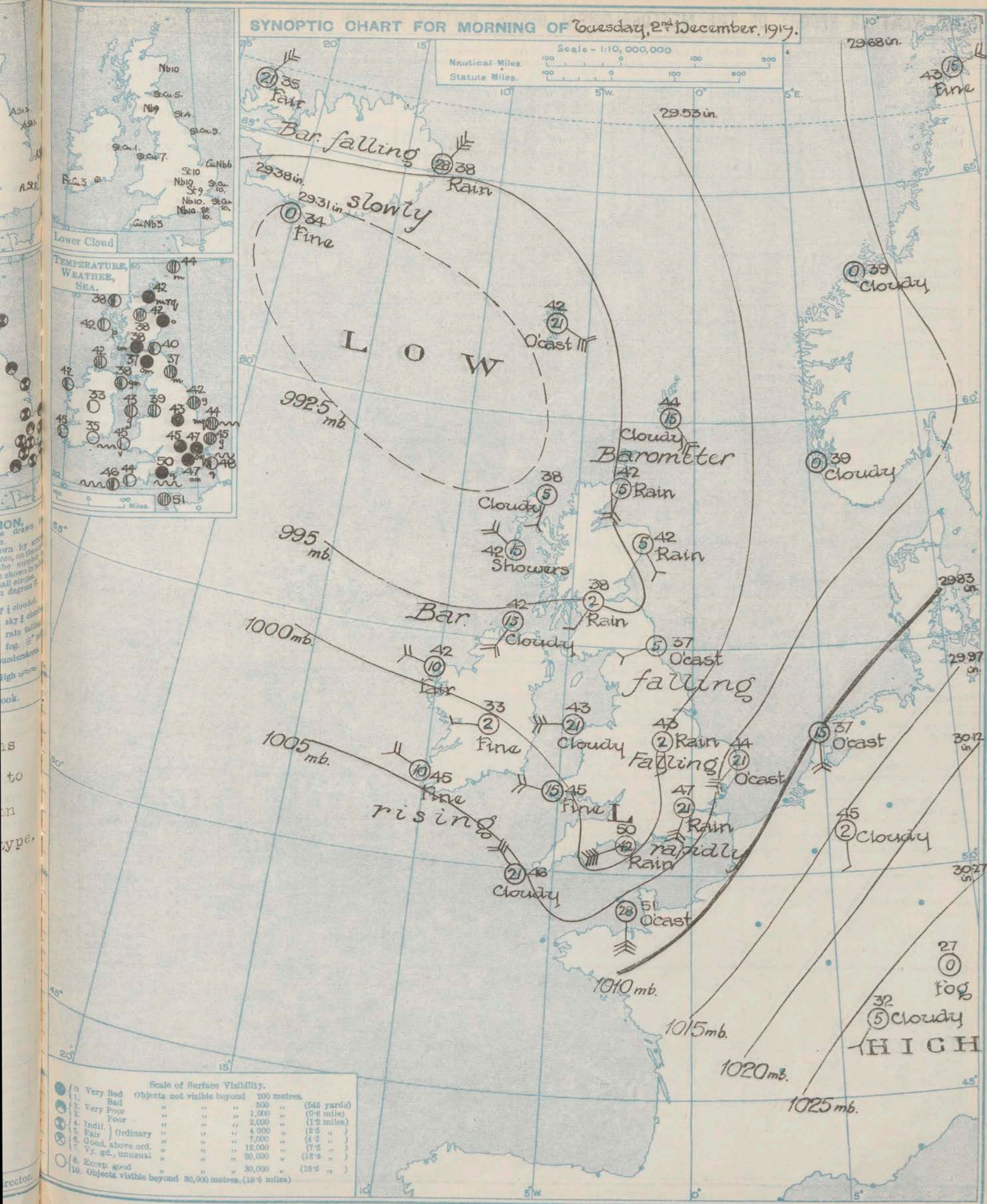
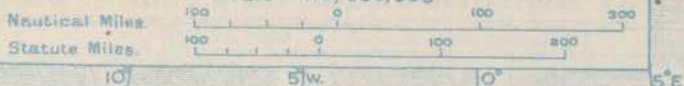
Districts.	Forecasts for the 24 hours commencing 3 p.m. Tuesday, 2nd December, 1919.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands	Strong Westerly winds moderating later. Squally. Changeable, showery at first, then improving. Moderate temperature.	Conditions are likely to remain of an unsettled type.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate Westerly winds, fresh at times. Fair generally but local showers. Moderate temperature.	
9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Moderate or fresh Westerly winds. Variable sky, some rain. Moderate temperature.	
14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Moderate S.W. to W. winds. Cloudy to dull, some rain. Moderate temperature.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh winds between S.W. and N.W. Fair at first, uncertain later. Moderate temperature.	



SYNOPTIC CHART FOR MORNING OF Tuesday, 2<sup>nd</sup> December, 1914.

Scale - 1:10,000,000

Nautical Miles  
Statute Miles



Scale of Surface Validity.

Objects not visible beyond 200 metres.

2.	Very Poor	"	"	500	"	(565 yards)
3.	Poor	"	"	1,000	"	(0.6 mile)
4.	Indif. }	"	"	2,000	"	(1.2 miles)
5.	Pair }	"	"	4,000	"	(2.5 "
6.	Ordinary	"	"	7,000	"	(4.5 "
7.	Good, above ord.	"	"	12,000	"	(7.5 "
8.	Vy. gd., unusual	"	"	30,000	"	(32.4 "
9.	Except good	"	"	30,000	"	(18.5 "
10.	Objects visible beyond	"	"	80,000 metres.		(38.6 miles)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 356 B

Tuesday,  
2nd December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 1 <sup>st</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night, 17h-19h. 30 <sup>th</sup> .	Day, 9h-17h. 15 <sup>th</sup> .	Sunrise to Sun- set. 15 <sup>th</sup> .	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night, 17h-19h. 30 <sup>th</sup> .	Day, 9h-17h. 15 <sup>th</sup> .	Sunrise to Sun- set. 15 <sup>th</sup> .		
Scotland.	Oban ... ..	oc	bcc.d	45	34	10	-	3.0	England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	b	bc	41	32	1	-	2.5		Blackpool ... ..	oc	oc	45	34	4	-	1.3		
	Montrose ... ..									Southport ... ..	oc	bc	43	?	-	-	1.0		
	St. Andrews ... ..	-	-	41	32	10	-	2.3											
England, N.E.	Harrogate ... ..	o	om	40	33	4	-	0.0	Midlands	Buxton ... ..									
	Skegness ... ..	or	or	43	36	3	2	0.0		Leamington Spa ... ..	or	op.	43	31	1	2	0.0		
	Searburo ... ..	-	-	41	38	1	-	0.0		Malvern ... ..	oc	bc	43	38	18	-	0.0		
										Ross-on-Wye ... ..	gomo	ocb	44	39	4	-	0.0		
England, E.	Felixstowe ... ..	ogqr	ogr	44	40	3	9	0.0	Wales.	Rhyl ... ..	rc	bc	49	37	4	-	2.4		
	Walton-on-Naze ... ..									Colwyn Bay ... ..	-	-	48	40	7	-	3.0		
	Southend-on-Sea ... ..	or	orq	44	35	2	7	0.0		Llandudno ... ..	o	b	48	40	?	-	2.7		
										Aberystwyth ... ..	roc	co	47	41	8	8	2.5		
England, S.E.	Margate ... ..	or	or	48	34	1	8	0.0	England, S.W.	Weymouth ... ..	or	or.cbc	45	41	17	5	0.0		
	Ramsgate ... ..	or	or	48	40	0.2	7	0.0		Teignmouth ... ..									
	Folkestone ... ..	or	or	47	43	1	14	0.0		Torquay ... ..	oro	ocb	45	36	16	1	0.2		
	Hastings ... ..	or	or	48	43	2	13	0.0		Paignton ... ..	or	orcb	45	36	19	1	0.0		
	Eastbourne ... ..	or	or	48	41	4	15	0.0		Penzance ... ..	oc	cbc	50	43	8	-	2.5		
	Brighton ... ..	or	or	48	41	4	12	0.0		Newquay ... ..	opo	beb	50	42	4	1	1.6		
	Worthing ... ..	or	rc	47	40	7	11	0.0		Bude ... ..	o	b	50	43	5	-	1.4		
	Littlehampton ... ..	or	or	47	42	10	11	0.0		Ilfracombe ... ..	op.	op.cbc	46	40	9	2	0.0		
	Bournemouth ... ..	-	-	44	36	19	7	0.0		Weston-s-Mare ... ..	or	bcc	45	37	-	-	0.0		
	Tunbridge Wells ... ..	or	oro	47	39	5	10	0.0											

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										Sun. Hours.	BEAUFORT NOTATION. b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog, g gloom. h hail, i lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	RAINFALL.		No.			Limits of Velocity.		
	7h-13h <sup>1st</sup>	13h-18h <sup>1st</sup>	18h-19h <sup>2nd</sup>	1h-7h <sup>2nd</sup>				Day. 7h-18h	Night. 18h-7h				Statute miles per hour.	Metres per second.	
†Houton Bay (Orkney)... Eskdalemuir ... ..	com	ocm	bom. or sm	orsm. or w	39	33	31	-	5	0.0	0	Less than 1	Less than 0.3		
†Stranraer ... ..							*	*	*	*	1	1-3	0.3-1.5		
†Lough Foyle ... ..							*	*	*	*	2	4-7	1.6-2.3		
†Valencia (Cahirciveen) ...	bccop.	bccop	c.c.p. bc		49	41	38	1	1	0.3	3	8-12	5.4-5.4		
†Anglesey (Llangefni) ...	bccz	bcc	rq.	co	40	39	*	*	*	*	4	13-18	5.5-7.9		
†Falmouth ... ..	oc	bccb	bcq/rh.	bor bc	51	42	40	trace	28	1.7	5	19-24	8.0-10.7		
†Calshot (Hants) ... ..	r	u	bc.c	q.c.	48	38	*	*	*	*	6	25-31	10.8-13.8		
†Capel (Folkestone) ... ..	ofr	or	q.b.bc	q.r.	40	32	*	*	*	*	7	32-38	13.9-17.1		
Aberdeen ... ..	bx	bxbcz	bc3.or		43	36	28	-	0.1	3.4	8	39-46	17.2-20.7		
†East Fortune ... ..	bcc	bccv	c.o	b.bc	43	32	*	*	*	*	9	47-54	20.8-24.4		
†Flamberg Head ... ..	az	om	c.f.	p.o	42	34	*	*	*	*	10	55-63	24.5-28.4		
†Felixstowe ... ..	az	or		c	45	30	*	*	*	*	11	64-75	28.5-33.5		
†Cranwell (Lines) ... ..	ob	op	bc.c	or	42	32	*	*	*	*	12	Above 75	33.6 or above		
†Bedford ... ..	or	cbr	b.bcz.	cbr. q	46	34	*	*	*	*					
Benson ... ..	or	o	b.r		45	35	30	13	10	*					
London (Kew Obsy.) ... ..	or,ormg	ormg	om.ayr		47	36	28	15	2	0.0					

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp.	Min. Temp.	Min. on Grass.	Rain- fall.	Sun- shine to Sunset.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.					
	Morning	Afternoon	Night.	° F.	° F.	° F.	mm.	Hours.	15 h. G. M. T.	9 h. G. M. T.		2nd & 3rd December.... 1919.					
	24 HOURS ENDED 9H. C. M. T. .. 2nd....							YESTERDAY.		TO-DAY.		Stations.      Sunrise.      Noon.      Sunset.					
Greenwich (Royal Observatory)	or	or	anc. od. or	48	36	28	18	0.0	91	88	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	G. M. T.      G. M. T.      G. M. T.					
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*		Yarmouth...	7.43	11.42	3.12		
Westminster (St. James's Park)	*	*	*	49	38	29	20	0.0	91	93	Total..... 3.4..... Joules.	7.45				11.13	3.41
„ (Admiralty Arch)	orm	orm. o	bc. or. o	48	40	*	19	0.0	92	93		Greenwich {	7.46				11.49
Camden Sq. (British Rainfall)	or	orm. o	*	47	37	31	21	0.0	95	99	Average Rate. 1-2		7.48				11.50
Kensington Palace ...	or	or. o	*	48	37	31	21	*	98	92		Maximum Rate. 4	8.39				12.1
													8.41				12.2
												8.29				12.30	4.32
												8.31				12.31	4.31

## NOTES ON THE WEATHER OF YESTERDAY.

The largest amounts of sunshine were recorded in Scotland, Nairn reporting -5.5 hours. England N.E., E. and S.E. experienced no sunshine. Maximum temperatures in England were mainly between 45° and 50° but were somewhat lower in Scotland. Rain was reported from most districts. Portland Bill reported a rainfall of 28 in. in.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 24, 195. B

Wednesday 3<sup>rd</sup> December 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 15H AND 18H.																								
STATIONS.	BAROM.	Change	WIND.	Weather.	TEMP.	Humidity.	Visibility.	Height	Low Cloud.	Upper Cloud.	Sea.	BAROM.	Change	WIND.	Weather.	TEMP.	Humidity.	Visibility.	Height	Low Cloud.	Upper Cloud.	Sea.		
	at	in 3	Dir.		°F.	%	0-10.	Feet.	Form.	Amt.	0-10.	0-9.	at	in 3		Dir.	°F.	%	0-10.	Feet.	Form.	Amt.	0-10.	0-9.
	M.S.L.	hours.	Force		9-12.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-9.	M.S.L.	hours.		Force	9-12.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-9.
13H. G.M.T. of 2nd												18H. G.M.T. of 2nd												
†Houton B. (Orkney)	998.1	+3	WNW 4	0	44	97	8	1 1/2-2000	Nb	9	-	1002.7	+5	W 4	bc	38	87	7	-	Cu	5	-	-	
†Eskdalemuir	998.1	+3	WNW 4	0	44	97	8	1 1/2-2000	Nb	9	-	1002.7	+5	W 4	bc	38	87	7	-	Cu	5	-	-	
†Stranraer	998.1	+3	WNW 4	0	44	97	8	1 1/2-2000	Nb	9	-	1002.7	+5	W 4	bc	38	87	7	-	Cu	5	-	-	
†Lough Foyle	998.1	+3	WNW 4	0	44	97	8	1 1/2-2000	Nb	9	-	1002.7	+5	W 4	bc	38	87	7	-	Cu	5	-	-	
†Valencia (Cahire'n)	1006.8	0	S 3	bc	42	97	8	2-3000	St	10	-	1007.6	+3	SW 4	od	53	92	6	1/2-1000	St	10	-	-	
†Anglesey (Llangefni)	1004.2	+5	W 4	b	45	95	6	2-3000	St	2	-	1008.5	+5	SW 2	bc	42	87	-	1/2-1000	St	5	-	-	
†Falmouth	1010.9	+5	W 3	bc	47	65	7	-	Cu	2	Acu	7	1013.7	+4	SW 3	c	47	87	7	-	St	5	As	
†Calshot (Hants)	1009.4	+4	WNW 3	bc	47	75	6	2-3000	Cu	9	-	1012.6	+3	WNW 2	b	47	87	6	-	-	-	-	3	
†Capel (Folkestone)	1003.4	+9	WNW 6	b	44	98	8	1/2-1000	Cu	1	-	1011.7	+6	WSW 4	b	40	98	8	-	-	-	-	3	
1H. G.M.T. of 3rd												7H. G.M.T. of 3rd												
†Houton B. (Orkney)	1003.4	-4	SSW 5	orm	41	98	3	-	Nb	10	-	1001.7	+1	SW 4	om	46	87	6	-	St	10	-	-	
†Eskdalemuir	1003.4	-4	SSW 5	orm	41	98	3	-	Nb	10	-	1001.7	+1	SW 4	om	46	87	6	-	St	10	-	-	
†Stranraer	1003.4	-4	SSW 5	orm	41	98	3	-	Nb	10	-	1001.7	+1	SW 4	om	46	87	6	-	St	10	-	-	
†Lough Foyle	1003.4	-4	SSW 5	orm	41	98	3	-	Nb	10	-	1001.7	+1	SW 4	om	46	87	6	-	St	10	-	-	
†Valencia (Cahire'n)	1009.2	0	SW 4	bc	53	*	*	*	*	*	*	1011.0	+2	SW 4	o	54	98	6	1/2-1000	St	10	-	-	
†Anglesey (Llangefni)	1007.3	-3	SSW 4	ty	47	98	-	1/2-1000	St	10	-	1007.5	0	SSW 5	o	50	98	-	1-1500	St	10	-	-	
†Falmouth	1015.4	+2	W 4	od	52	92	4	-	Nb	10	-	1016.8	+1	WSW 4	od	52	92	1	-	Nb	10	-	-	
†Calshot (Hants)	1019.0	0	W 2	c	48	98	4	1 1/2-2000	St	8	-	1016.5	+1	W 4	or	50	98	2	1/2-1000	Nb	10	-	-	
†Capel (Folkestone)	1015.0	+6	W 4	b	40	98	7	-	-	-	-	1014.3	-3	SW 7	def	47	98	0	1-500	St	10	-	-	
†Aberdeen	1001.8	-3	WSW 2	o	42	75	-	1 1/2-2000	Nb	6	-	994.5	+1	WSW 3	b	43	75	7	-	St	2	-	-	
†East Fortune	1006.8	0	SW 3	m	36	87	3	-	-	As	2	997.4	-2	WSW 5	c	50	75	-	2-3000	St	10	-	-	
†Flamborough Hd.	1014.4	0	SW 2	b	40	92	5	1 1/2-2000	St	3	-	1004.0	-2	SSW 4	b	43	98	3	1-1500	St	10	-	-	
†Felixstowe	1014.4	0	SW 2	b	40	92	5	1 1/2-2000	St	3	-	1012.1	-4	SW 4	o	45	98	3	2-3000	Cu	10	-	-	
†Cranwell (Lincs)	1016.4	0	SW 2	c	39	92	4	2-3000	St	4	As	3	1007.8	-2	WSW 4	o	50	87	6	1-1500	St	10	-	
†Bedford	1012.0	0	SW 2	c	44	87	5	-	-	As	8	1010.9	0	SW 4	og	51	87	3	1-1500	St	10	-	-	
†Benson	1013.2	0	*	*	*	*	*	*	*	*	*	1011.9	+2	SW 3	o	51	92	7	-	St	10	-	-	
†London (Kew Obs.)	1013.2	0	*	*	*	*	*	*	*	*	*	1012.9	0	WSW 4	om	50	98	4	2-3000	St	8	As	2	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																								
STATIONS.	BAROM.	TEMP.	WIND.	Weather.	BAROMETER.	TEMPERATURE.	WIND.	Weather.	SEA.	Rainfall.	TEMP.			WEATHER.			Sunshine.							
	at	°F.	Dir.		Force	at	Change		Temp.	Change	Dir.	Force	Max.	Min.	Morning.	Afternoon.		Night.						
	M.S.L.	°F.	Dir.		Force	M.S.L.	in 3 hours.		°F.	in 24 hours.	Dir.	Force	°F.	°F.	°F.	°F.		°F.						
18H. G.M.T. of 2nd												7H. G.M.T. of 3rd												
Lerwick	998.1	44	SB 3	cm	989.2	-8	41	-3	SSE	5	-	omr	3	2	44	39	om	cm	omp	*				
Stornoway	998.2	38	W 2	bc	990.0	+2	44	+6	SE	4	-	bc	3	2	46	38	cbe	bc	c.bc	2.4				
Castlebay (Barra Is)	999.7	46	SW 3	o	994.6	+2	48	+6	W	6	SW	c	5	3	49	40	bc ope	co	oro.c	4.1				
Glasgow	1002.8	41	WSW 2	b	999.7	+1	47	+9	SW	5	-	o	*	3	48	38	omrcm	bc ope	6.acep	2.2				
Malin Head	1001.1	43	SW 3	bc	998.5	+1	43	+1	SW	7	-	om	3	3	46	39	c	bep	om	4.9				
Blacksod Point	1002.4	44	SSW 3	ond	1002.6	+1	51	+9	W	3	-	cm	4	9	52	40	bc	bcomd	omgcm	*				
Roche's Point	1008.8	44	SSW 3	r	1011.0	0	52	+17	WSW	3	-	o	3	2	54	35	b.o	ond	d.o	*				
Birr Castle	1006.2	43	S 1	c	1006.7	*	50	+17	W	4	-	o	*	2	53	31	bc.e	c	o.p.o	5.5				
Donaghadee	1005.6	38	S 2	b	1002.2	+2	50	+12	WSW	5	-	cq	2	1	52	37	bcm	bm	cp	*				
Liverpool (Bidston)	1007.6	41	W 4	b	1006.2	+2	51	+12	SW	3	-	o	3	3	51	39	b	bc	b.or	4.3				
Holyhead	1007.8	45	WSW 4	c	1006.9	+1	51	+8	SW	5	-	oem	4	7	51	41	cb	cb	c.op.re	6.0				
Pembroke (St. Ann's Head)	1010.5	49	SW 4	c	1011.3	+1	52	+7	SW	4	-	ogr	5	3	52	45	bcv	brcv	opgr	6.0				
Scilly (St. Mary's)	1012.7	49	SSW 3	d.f	1016.5	+1	52	+6	W	4	-	f	6	1	52	46	c	cof.d	of	2.2				
Jersey (St. Aubin)	1014.9	49	W 4	o	1019.2	+1	52	+1	WSW	5	-	o	4	4	52	48	opbc	bco	oroem	0.8				
Portland Bill	1013.0	38	W 6	b	1014.6	0	51	+1	SW	6	-	o	6	6	51	43	bc.bq	bq	m.r.o	*				
Dungeness	1012.6	44	WSW 4	b	1013.4	?	49	+1	WSW	5	-	om	4	6	50	42	qorc.b	b	bc.od.o	*				
Wick	997.0	39	WNW 2	omd	990.1	-2	42	0	SSW	4	-	ompq	3	5	44	35	om	omd	bc.omp	*				
Nairn	998.8	38	W 1	bc	992.7	*	42	+4	WSW	2	-	cq	2	4	45	33	odc	cbe	bex.o	0.0				
Leith	1000.8	42	SW 2	r	997.6	0	50	+10	W	4	-	o	3	2	51	37	c.op.o	c.be.ep	pcq.p.o	*				
Tynemouth	1001.6	41	W 3	b	1000.3	-2	47	+10	W	2	-	bcm	2	0.1	47	36	cm	bcm	bmbcm	*				
Spurn Head	1003.3	42	W 6	b	1005.2	-2	45	+3	S	4	-	o	4	5	45	36	cgmq	cgm	bc	*				
Yarmouth (near station)	1006.2	43	W 4	b	1010.2	-4	43	-1	WSW	4	-	omr	4	7	46	36	omgr.u	bq	bc.bep	0.0				
Clacton-on-Sea	1009.1	41	SW 4	b	1011.7	-2	45	0	SW	3	-	og	3	5	46	37	ogrbc	bcbm	bm.og	3.0				
Nottingham	1008.2	41	SSW 2	b	1007.6	*	50	+7	SW	3	SW	o	*	5	50	37	romc	cpo	b	0.1				

† Air Ministry Station.

\* Information for these columns not usually received.

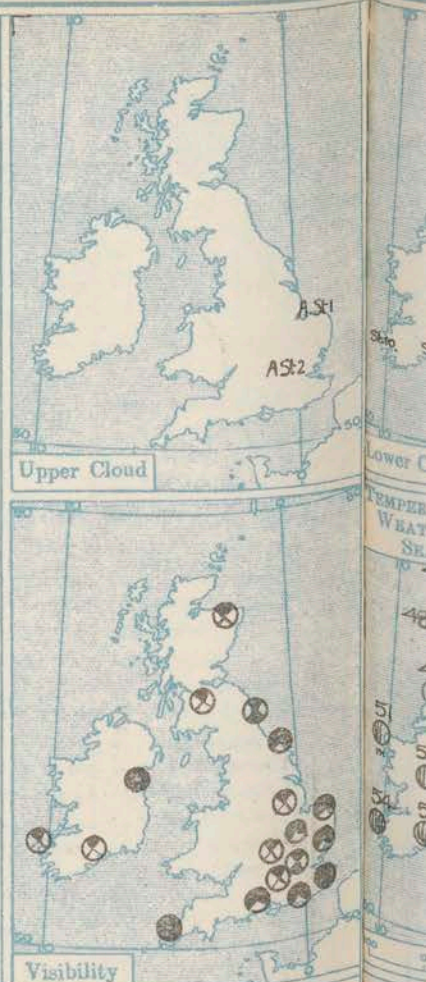
† The barometric change is expressed in half millibars.

§ Longside + at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Wednesday, 3rd December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	SW-W 15-25.	v.mild.	Dull; local rain and and mist; coastal fog.	Fair.	Mod.
2. E. England	S-SW 10-20	Mild.	Dull; local rain and mist.	Poor	Slight
3. E. Midlands	SW. 10-15	V.mild.	Dull.	Var.	-
4. W. Midlands	SW. 10-15.	"	Dull.	-	-
5. S.W. England	SW-W 15-25.	Mild.	Dull; local drizzle. fog.	v.poor	r.rough
6. South Wales	SW. 15-20	"	Dull; rainy; squally.	Ord.	"
7. North Wales	SW-W 20-25.	"	Dull; local mist.	"	Mod.
8. N.W. England	SW-W 10-15	"	Dull; local mist.	"	Slight
9. N. Midlands	SW. 10-15.	"	Dull.	"	-
10. N.E. England	S-W 10-20.	r.mild.	Fair to dull.	"	Slight
11. E. Scotland	SW-W 10-20	mild.	Fair to dull.	Good	Smooth
12. S.W. Scotland	SW. 15-25	"	Dull; local mist.	"	"
13. Isle of Man	SW-W. 20-25	"	Cloudy to dull.	-	Slight
14. N. & N.W. Scot- land	S-SW 15-20	r.mild.	Cloudy to dull; local showers.	-	"
15. Hebrides	SW-W 15-30	"	Fair to cloudy.	-	Mod.
16. Orkneys and Shetlands	SE-S 15-25	Mod.	Dull; rain and mist.	-	Slight
17. N.W. Ireland	SW-W 10-15	Mild.	Cloudy to dull, misty.	-	Mod.
18. N.E. Ireland	SW-W 15-25	"	Cloudy to dull, squalls.	-	Slight
19. S.E. Ireland	SW-W 10-15	v.mild.	Dull; local rain.	Good.	Mod.
20. S.W. Ireland	SW. 10-20.	"	Dull; drizzle.	"	"



GENERAL INFERENCE from observations received up to 9 a.m.

A depression between Iceland and Faroe is moving in an Easterly direction. Mild unsettled weather, with winds between W. and S.W., is probable generally.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

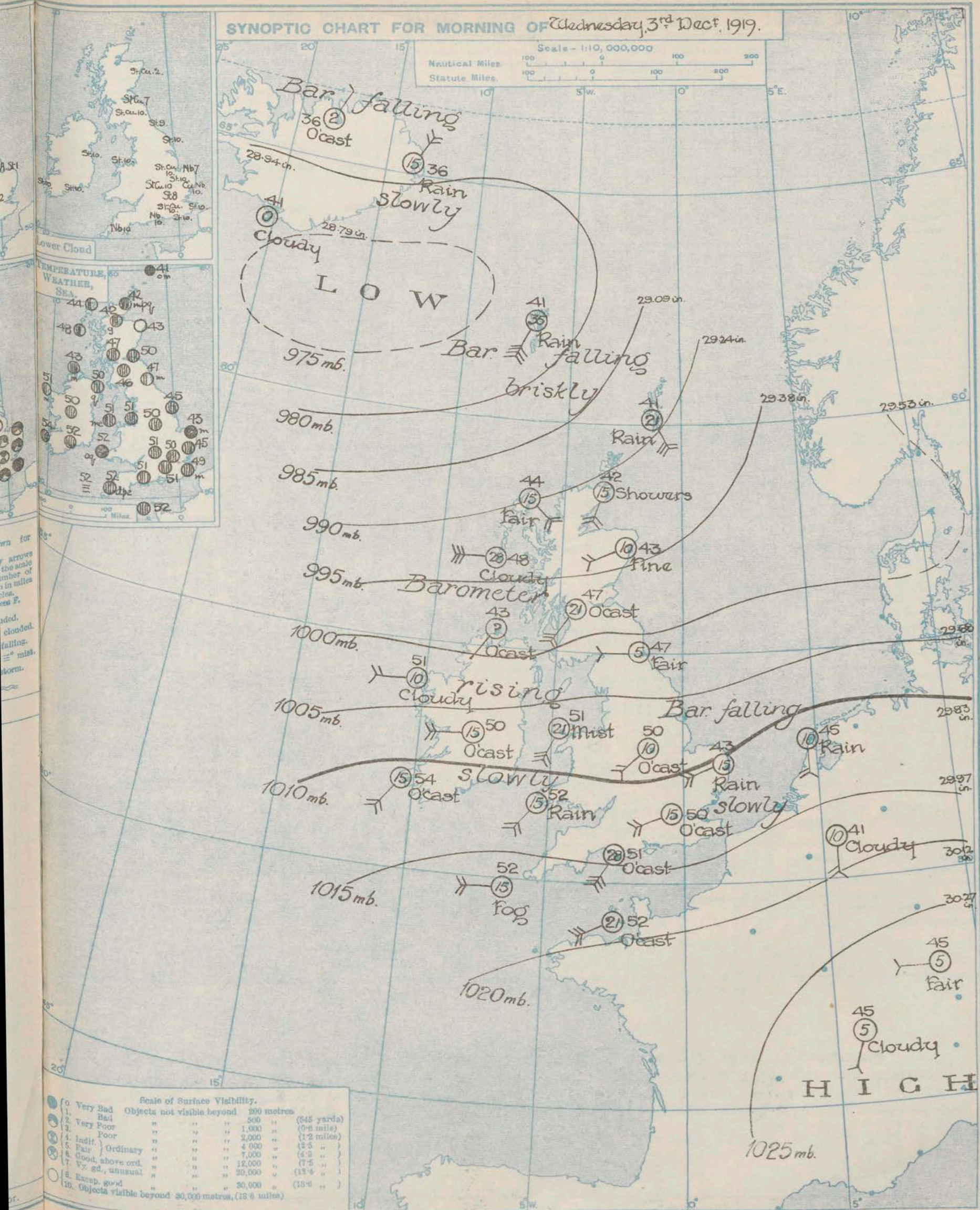
Districts.	Forecasts for the 24 hours commencing 3 p.m. Wednesday, 3rd December, 1919.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Moderate or fresh W. or S.W. winds. Much cloud showers or drizzle at times. Some mist. Mild.
8. N.W. England 9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland 13. Isle of Man	Moderate or fresh W. or SW. winds. Cloudy or overcast with some showers. and fairer intervals.  Mild..
14. N.&N.W.Scot-land 15. Hebrides 16. Orkneys and Shetlands	Fresh or strong winds between S. and W. Cloudy or dul . Some rain and mist. Rather mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh winds betwe n S. and W. Mainly cloudy or overcast, with some mist and drizzle at times. Mild.



SYNOPTIC CHART FOR MORNING OF *Wednesday, 3<sup>rd</sup> Dec<sup>r</sup>, 1919.*

Scale - 1:10,000,000

Nautical Miles  
Statute Miles,



### Scale of Surface Viability.

Objects not visible beyond 200 metres

[illegible]

2,000 (1.2 million)

Income	11	12	13	4 000	14	(25	15	)
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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531
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Income	20,000	(12%)
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(within 8.31) within 100 m of the shore



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 357. B

Wednesday  
3<sup>rd</sup> December 1919

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR ..... 2 <sup>nd</sup> .....																				
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.			STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-1h. 1.	Day. 12h-1h. 2.	to 17h. .....	Sunrise to Sun- set. 2.				Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-1h. 1.	Day. 12h-1h. 2.	to 17h. .....	Sunrise to Sun- set. 2.
Scotland.	Oban ... ..	oc	pc	45	30	10	1		1.1	England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	to	or	40	34	0.2	3		0.0		Blackpool ... ..	c	bc	45	36	2	-		3.5	
	Montrose ... ..										Southport ... ..	crep	bebbe	45	36	0.2	-		3.2	
	St. Andrews ... ..																			
England, N.E.	Harrogate ... ..	ecbc	bbe	42	34	3	-		3.2	Midlands.	Buxton ... ..	ecbc	bc	45	36	12	-		3.7	
	Skegness ... ..	or	orbcc	43	36	12	7		0.3		Leamington Spa... ..	bc	bcb	45	35	10	-		5.7	
	Scarborough ... ..			45	42	2	-		1.6		Malvern ... ..	cbbe	bberb	47	37	12	-		6.0	
											Ross-on-Wye ... ..									
England, E.	Felixstowe ... ..	ogr	bcq	45	37	3	7		1.4	Wales.	Rhyl ... ..	bep	cpbc	46	36	1	1		4.9	
	Walton-on-Naze... ..										Colwyn Bay ... ..			44	39	5	-		4.3	
	Southend-on-Sea... ..	orgo	bcb	47	36	4	1		1.7		Llandudno ... ..	cp	b	47	41	3	0.2		3.6	
											Aberystwyth ... ..	rac	bco	47	43	*	*		5.0	
England, S.E.	Margate ... ..	or	b	49	37	0.4	5		3.0	England, S.W.	Weymouth ... ..	bcr bc	bcb	49	41	16	-		6.3	
	Ramsgate ... ..								1.7		Teignmouth ... ..									
	Folkestone ... ..	erobe	c	47	38	-	7		2.8		Torquay ... ..	b	bbe b	50	40	17	-		6.2	
	Hastings ... ..	orc	b	49	37	1	3		4.2		Paignton ... ..	bc	bem	51	36	16	-		6.2	
	Eastbourne... ..	orebc	b	50	40	3	7		4.6		Penzance ... ..	bcc	co	52	45	24	-		2.6	
	Brighton ... ..	orc b	b	49	38	4	2		4.5		Newquay ... ..	bey	bco	49	42	22	-		3.8	
	Worthing ... ..	q bc	bcb	49	35	5	2		5.0		Bude ... ..			49	44	18	-		5.6	
	Littlehampton ... ..	qrbc	bc	49	42	3	3		3.3		Ilfracombe ... ..	cbe	bcc	48	43	17	-		3.9	
	Bournemouth ... ..			48	39	31	-		6.0		Weston-s-Mare ... ..	b	bbe	47	38	18	-		6.6	
	Tunbridge Wells ... ..	oroc	bcb	50	33	10	5		3.5											

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.	THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on GAGES ° F.	RAINFALL.		Sun. Hours.		No.	Limits of Velocity.	
	7h-12h. 2°	12h-12h. 2°	12h-1h. 3°	1h-7h. 3°				Day. 7h-12h.	Night. 12h-7h.				Statute miles per hour.	Metres per second.
†Houton Bay (Orkney)... Eskdalemuir ... ..	orsmoe	opqebc	bc.c.o.orm.orm.o		47	34	30	7	4	0.6	b blue sky (not more than a quarter covered).	0	Less than 1	Less than 0.8
†Stranraer ... ..							*	*	*	*	bc sky partly cloudy (one half covered).	1	1-3	0.3-1.5
†Lough Foyle ... ..							*	*	*	*	c generally cloudy (three quarters covered).	2	4-7	1.6-3.3
Valencia (Cahirciveen) ...	or	ord	odp		56	41	49	1	1	0.0	d drizzle, or fine rain.	3	8-12	5.4-5.6
†Anglesey (Llangefni) ...	bbe.q	bbe	Tha.q	opd	50	40	*	*	*	*	e wet air without rain falling.	4	13-18	5.5-7.9
Falmouth ... ..	bc	bcb bc	c.ody	odfe	52	43	46	Trace	-	2.0	f fog. g gloom.	5	19-24	8.0-10.7
†Calshot (Hants) ... ..	bbe	bcc.b	b	r	50	40	*	*	*	*	h hail. i lightning.	6	25-31	10.8-13.8
†Capel (Folkestone)...	* rh	bcc v	b	efq	48	32	*	*	*	*	m mist.	7	32-38	13.9-17.1
Aberdeen ... ..	orm	omgrc	bcm.b		43	36	30	7	-	0.0	o overcast sky.	8	39-46	17.2-20.7
†East Fortune ... ..	or	bz	bq	c.oq	51	39	*	*	*	*	p passing showers.	9	47-54	20.8-24.4
†Framboro. Hd. ... ..	c.o.z	bccq	b.bccq	amq	43	35	*	*	*	*	q squalls.	10	55-63	24.5-28.4
†Felixstowe ... ..	r	bccq	q/bc.c	?	46	37	*	*	*	*	r rain.	11	64-75	28.5-33.5
†Cranwell (Lincs) ... ..	or	bcc	b.bcc	bc.c	50	34	*	*	*	*	rs sleet, i.e., rain and snow together.	12	Above 75	33.6 or above
†Bedford ... ..	bo.z	bbe z	bz	c.opd	52	36	*	*	*	*	s snow.	<b>SYMBOLS—</b> Aurora ☄ Solar halo ☉ Rime ❄ Lunar halo ☾ Glazed frost ☁ Solar corona ☉ Glazed roads ☁ Lunar corona ☾		
Benson ... ..	rebc	b	b.o		51	35	28	16	-	*	t thunder.			
London (Kew Obsy.) ...	ogr c/bc	b	cbev.c.o		51	38	32	10	Trace	3.8	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.			

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	Morning	Afternoon.	Night.						15 h. G.M.T.	9 h. G.M.T.		3 <sup>rd</sup> & 4 <sup>th</sup> Dec <sup>r</sup> 1919.			
	24 HOURS ENDED 9H G.M.T. 3 <sup>rd</sup>								YESTERDAY.	TO-DAY.		Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.
Greenwich (Royal Observatory)	bc.r	c.o	o.r	52	39	28	4	3.5	69	93	Total .....187..... Joules.  Milliwatts. Average Rate. 6.4 Maximum Rate. 19	Yarmouth...	G.M.T.	G.M.T.	G.M.T.
City (Bunhill Row) ...	*	*	*	*	*	*	*	1.7	*	*			7.45	11.43	3.41
Westminster (St. James's Park)	*	*	*	53	50	32	2	3.2	71	97			7.46	11.43	3.40
„ (Admiralty Arch)	orzm	bczb	b.bccor	53	41	*	2	2.2	73	93			7.48	11.50	3.52
Camden Sq. (British Rainfall)			*	52	38	32	2	2.8	72	94	Total .....187..... Joules.  Milliwatts. Average Rate. 6.4 Maximum Rate. 19	Greenwich	7.49	11.50	3.52
Kensington Palace ...	o.b.c.b	b	*	52	38	31	3	*	72	96			8.41	12.2	3.22
												Wick ...	8.43	12.2	3.22
												Valencia ...	8.31	12.31	4.31
													8.32	12.31	4.30

## NOTES ON THE WEATHER OF YESTERDAY.

Rainfall in most districts. Benson reported 16 m.m. and Kew 10 m.m. of rain. Maximum temperatures were mostly between 44° and 54°. The highest maximum reported was 56° at Valencia. Fair amounts of sunshine were recorded in England. Weston-Super-Mare had 6.6 hours sunshine, and several places in S.W. England had more than 6 hours.

† Air Ministry Station.

\* Information for columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21196 B THURSDAY, 4<sup>TH</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																													
STATIONS	BAROM. at M.S.L. m.b.	Change in 3 hours.	WIND. Direc.	Force 0-12.	Weather	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud. Form.	Amt. 0-10.	Upper Cloud. Form.	Amt. 0-10.	Sea 0-9.	BAROM. at M.S.L. m.b.	Change in 3 hours.	WIND. Direc.	Force 0-12.	Weather	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud. Form.	Amt. 0-10.	Upper Cloud. Form.	Amt. 0-10.	Sea 0-9.	
	13H. G.M.T. OF 3 <sup>RD</sup>															18H. G.M.T. OF 3 <sup>RD</sup>													
†Houton B. (Orkney)	1003.3	0	WSW	5	02	46	75	6	3-4000	Sc	9	-	-	*	1003.8	+1	SW	5	0	44	82	6	-	Sc	10	-	-	*	
Esksdalemuir ...														*													*		
†Stranraer ...														*													*		
†Lough Foyle ...														*													*		
Valencia (Cabre'n)	1002.3	0	SW	4	0	53	92	7	1-1500	Sc	10	-	-	*	1012.8	+2	SW	4	0	51	92	7	1-2000	Sc	7	-	-	5	
†Anglesey (Llangefni)	1009.2	+1	SSW	4	0	50	98	5	2-3000	Sc	10	-	-	5	1009.4	+1	SW	4	0	49	92	-	1-1500	Sc	9	-	-	5	
Falmouth ...	1017.3	-1	WSW	6	dgfc	53	92	1	-	Nb	10	-	-	*	1016.8	0	SW	6	odq	52	92	1	-	Nb	10	-	-	*	
†Calshot (Hants) ...	1016.2	+1	W	4	0	51	98	1	1-2000	Sc	10	-	-	3	1015.6	0	W	3	0	50	98	2	1-2000	Sc	10	-	-	3	
†Capel (Folkestone)	1015.3	+1	SW	6	ot.f	50	98	1	1-1000	Nb	10	-	-	4	1016.6	0	SW	6	ef	50	98	0	-	Nb	10	-	-	4	
1H. G.M.T. OF 4 <sup>TH</sup>																													
†Houton B. (Orkney)	1002.6	-2	SW	5	c	42	87	6	-	Sc	8	-	-	*	1004.9	+2	WSW	6	odq	39	87	6	2-3000	Nb	10	-	-	*	
Esksdalemuir ...														*													*		
†Stranraer ...														*													*		
†Lough Foyle ...														*													*		
Valencia (Cabre'n)	1017.4	+1	HW	6	bcp	50	*	*	*	*	*	*	*	*	1019.9	+3	WSW	5	0	50	82	8	-	Sc	9	-	-	0	
†Anglesey (Llangefni)	1016.2	+2	SW	5	c	48	87	1	1-1500	Sc	6	ASr	2	5	1013.7	+4	WSW	5	c	51	82	-	2-3000	Sc	7	-	-	5	
Falmouth ...	1020.0	+2	W	6	c	52	87	6	-	Sc	7	-	-	*	1023.6	+3	WSW	5	bq	48	82	6	-	Sc	1	-	-	*	
†Calshot (Hants) ...														*	1019.9	+2	W	3	0	47	98	4	-	-	A.Cu	9	4	*	
†Capel (Folkestone)	1014.0	-1	SW	6	q	47	98	4	1-2000	Nb	10	-	-	-	1018.2	+4	SW	4	bc	45	98	6	4-5000	Sc	4	A.Sr	1	4	
Aberdeen ...	1000.3	-1	WSW	4	cl	43	82	-	2-3000	Nb	8	-	-	*	996.8	+1	WSW	4	bcz	40	75	6	-	Sc	4	-	-	2	
†East Fortune ...	1000.0	0	WSW	6	bc	45	92	4	2-3000	Sc	10	-	-	*	1001.7	+2	W	3	b	40	87	-	1-2000	Nb	2	-	-	*	
†Flamboro' Head ...	1006.0	0	WSW	6	bc	45	92	4	2-3000	Sc	10	-	-	*	1006.7	+1	W	6	b	44	82	4	4-5000	Sc	1	A.Sr	1	*	
†Felixstowe ...	1010.7	+1	W	4	bc	48	92	4	1-1500	Sc	5	-	-	4	1015.7	+4	WSW	5	bcq	46	92	5	1-2000	Sc	2	A.Sr	2	4	
†Cranwell (Lines)	1009.6	+2	WSW	3	b	47	92	5	2-3000	Sc	2	ASr	2	*	1012.0	+2	W	4	bc	46	82	7	1-1500	Sc	5	-	-	*	
†Bedford ...	1012.9	+1	WSW	2	2	49	92	6	4-500	-	-	-	-	*	1015.0	+1	WSW	4	bq	47	82	4	-	-	A.Sr	2	-	*	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.5	+3	WSW	3	c	47	87	7	-	Sc	7	-	-	*	
London (Kew Obs.)	1013.6	-1	SW	3	ot	53	92	5	2-3000	Nb	9	A.Sr	2	*	1017.7	+2	SW	3	b	48	87	4	2-3000	Sc	1	Cu	1	*	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND. Direc.	Force 0-12.	Weather	BAROMETER. at M.S.L. m.b.	TEMPERATURE. Temp. °F.	Change in 24 hours.	WIND. Direc.	Force 0-12.	Upper Cloud.	WEATHER.	Sea 0-9.	Rainfall mm.	TEMP. Max. °F.	Min. °F.	Morning.	Afternoon.	Night.	Sunshine Hours.									
	18H. G.M.T. of 3 <sup>RD</sup>					7H. G.M.T. of 4 <sup>TH</sup>					24 HOURS ENDED 7H. OF 4 <sup>TH</sup>																		
Lerwick ...	998.5	41	WSW	3	om	986.1	-3	42	+1	SW	5	-	omr	3	45	37	rhp	rhp	omr	*									
Stornoway ...	992.8	43	SW	5	bcpq	992.8	+2	42	-2	NW	6	-	bcpq	5	45	39	opq	bcpq	bcpq	2.4									
Castlebay (Barrals)	997.0	47	W	5	c	999.3	+2	43	-5	W	6	SW	bc	5	48	40	cob bc	cob bc	cob bc	2.5									
Glasgow ...	1001.8	45	SSW	4	op	1003.2	-4	40	-7	WSW	6	-	r	3	48	39	ocpc	ocpc	bqrhp	0.2									
Malin Head ...	1000.6	47	W	4	cq p	1002.0	+1	44	+1	W	5	W	cqph	5	49	41	cm	cq p	cq p	1.7									
Blacksod Point	1005.1	47	SSW	4	cm p	1010.2	0	44	-7	WNW	4	-	opq	4	51	42	cp	cm p	bc opq	*									
Roche's Point...	1012.8	50	W	3	b	1019.5	+3	46	-6	W	3	W	bc	4	54	46	od	or b	b bc	*									
Birr Castle ...	1008.8	50	W	3	0	1014.3	*	43	-7	W	2	-	c	6	53	42	c	op	cp	0.9									
Donaghadee ...	1005.0	46	SW	3	cm	1007.6	+4	42	-8	WSW	5	-	bcq	4	52	43	bq	cm	bcq	*									
Liverpool (Bidston)	1008.4	50	WSW	4	0	1011.5	+4	45	-6	WSW	7	W	bcq	6	53	43	c	0	opq	0.1									
Holyhead ...	1009.7	50	SW	4	0	1012.8	+2	47	-4	W	7	-	bq	5	52	47	ocpc	ocpc	cq bcq	0.1									
Pembroke (St. Ann's Head)	1013.1	51	WSW	4	or	1018.4	+3	50	-2	WSW	5	-	b	5	52	50	ofa	omr	or c b	0.0									
Seilly (St. Mary's)	1018.2	52	W	5	f	1023.6	+1	50	-2	W	5	W	bc	6	52	49	fd	fd	bc	0.0									
Jersey (St. Aubin)	1020.1	53	WSW	4	0	1024.6	+2	50	-2	W	4	-	b	3	54	50	ocmdm	ocmdm	doem b	0.0									
Portland Bill ...	1015.3	51	WSW	6	omr	1020.5	+5	50	-1	W	5	-	bc	5	52	33	omr	mr	bc	*									
Dungeness ...	1014.6	50	WSW	5	f	1017.8	?	48	-1	WSW	4	-	b	4	51	48	or	raf	od ac b	*									
Wick ...	993.3	40	WSW	3	omq	992.4	0	37	-5	WSW	3	-	bcq	3	43	36	bcomp	compq	bc opq	*									
Nairn ...	995.0	41	SW	3	bc	995.7	*	39	-3	W	3	-	ogu	2	45	37	rpqc	cqcb	cqpru	0.8									
Leith ...	1000.8	46	SW	3	0	1001.4	+1	41	-9	WSW	4	-	b	2	52	40	acpqo	acpqo	acpqo	*									
Tynemouth ...	1003.9	49	W	2	bcm	1003.7	0	45	-2	W	3	-	bc	3	52	44	bcm	bcm	bcm	*									
Spurn Head ...	1007.5	47	WSW	3	bc	1009.0	0	45	0	W	4	-	b	3	50	42	oc	oc	bc op	*									
Yarmouth (Gorleston)	1010.9	53	W	3	c	1011.8	+3	47	+4	W	3	-	bc	3	54	42	eq	c	cq om p	0.0									
Clacton-on-Sea	1012.8	47	SSW	3	0	1015.8	+3	46	+1	WSW	4	-	bc	3	51	44	ogmr	ogmr	ogmr	0.0									
Nottingham ...	1009.0	52	W	2	0	1012.5	*	48	-2	W	5	-	b	1	55	47	ofc	co	oc	0.0									

† Air Ministry Station.

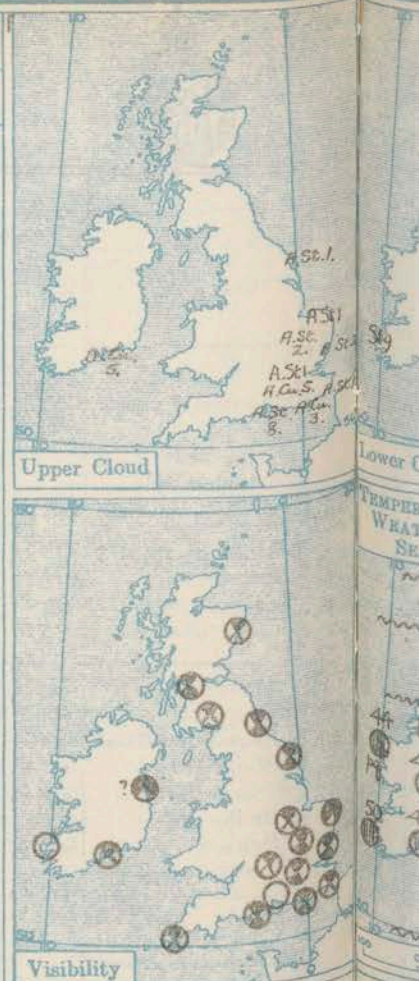
\* Information for these columns not usually received.

‡ The barometric change is expressed in half millibars. § Longside † at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Thursday, 4th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	SW-W. 10-20	Mild	Fine to cloudy.	Ord.	Mod.
2. E. England	SW-W. 10-20	"	Fair, squally.	"	Slight
3. E. Midlands	WSW. 10-15	"	Fair to cloudy.	Good	"
4. W. Midlands	SW-W. 10-15	"	Fair	"	"
5. S.W. England	W-SW. 20-25	Med.	Fair, squally.	"	R. rough
6. South Wales	WSW. 20-25	R. mild	Fair	"	"
7. North Wales	SW-W. 25-35	Mod.	Fair to cloudy, squally.	"	"
8. N.W. England	SW-W. 25-30	"	Fair to cloudy, squally	"	"
9. N. Midlands	W. 20-25	Mild	Fair	"	"
10. N.E. England	W. 10-25	Mod.	Fair	Ord.	Slight
11. E. Scotland	W-SW. 10-15	"	Fair, local haze.	Good	"
12. S.W. Scotland	W-SW. 25-30	"	Dull, local rain, squalls	Ord.	Mod.
13. Isle of Man	W-SW. 20-25	"	Fair to cloudy.	"	"
14. N. & N.W. Scotland	W. 10-15	"	Fair to dull.	"	"
15. Hebrides	W-NW. 30	"	Fair, local showers and squalls.	Good	R. rough
16. Orkneys and Shetlands	W-SW. 20-25	"	Dull, local rain.	Ord.	Slight
17. N.W. Ireland	W-NW. 20-25	"	Cloudy to dull, local showers and hail, squally.	Good	Mod.
18. N.E. Ireland	W-SW. 20-25	"	Fair to cloudy, squally.	"	"
19. S.E. Ireland	W. 10-20	"	Fair to cloudy.	"	"
20. S.W. Ireland	W-SW. 10-25	R. mild	Fair to dull.	"	"



## GENERAL INFERENCE from observations received up to 9 a.m.

A depression centred near Farøe is moving eastwards and is likely to cause showers in most districts.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**— Rough High

Districts.	Forecasts for the 24 hours commencing 3 p.m.	Further Outlook.
1. S.E. England	Moderate or fresh Wly. winds, veering somewhat. Variable sky, some showers. Rather mild, becoming cooler.	Further depressions are likely to arrive from the Atlantic and maintain unsettled weather.
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	Moderate or fresh W. to NW. winds. Variable sky, some showers. Temperature falling temporarily.	
12. S.W. Scotland		
13. Isle of Man		
14. N. & N.W. Scot- land		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland	Wind between W. and NW., moderate or fresh, backing later. Cloudy, some showers. Less mild temporarily.	
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		



**Scale:** 1:10,000,000  
Nautical Miles: 0 100 200  
Statute Miles: 0 100 200

**Pressure Systems:**  
**LOW** (centered over the North Atlantic)  
**HIGH** (located to the west of the LOW)

**Isobars (mb):** 985, 990, 995, 1000, 1005, 1010, 1015, 1020, 1025

**Weather Conditions:**  
 Fine, Rain, Showers, Fair, Cloudy, Hail showers, O'cast., rising, falling

**Legend:**  
 Visibility:  
 beyond 200 metres (545 yards)  
 " 500 " (545 yards)  
 " 1,000 " (0.6 miles)  
 " 2,000 " (1.2 miles)  
 " 4,000 " (2.5 " )  
 " 7,000 " (4.3 " )  
 " 12,000 " (7.5 " )  
 " 20,000 " (12.4 " )  
 " 30,000 " (18.6 " )  
 less (18.6 miles)

Scale of Surface Visibility.			
1.	Very Bad.	Objects not visible beyond	200 metres.
2.	Bad	"	500 "
3.	Very Poor	"	1,000 "
4.	Poor	"	2,000 "
5.	Indit.	"	4,000 "
6.	Fair	"	7,000 "
7.	Good, above ord.	"	12,000 "
8.	V. gd., unusual	"	20,000 "
9.	Except. good	"	30,000 "
10.	Objects visible beyond	30,000 metres, (18½ miles)	



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 388 B

Thursday,  
4th December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 3 <sup>rd</sup> .....																	
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	STATIONS.	WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 12h-9h. 2 <sup>nd</sup> .	Day. 9h-12h. 3 <sup>rd</sup> .	Sunrise to Sunset. 3 <sup>rd</sup> .		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 12h-9h. 2 <sup>nd</sup> .	Day. 9h-12h. 3 <sup>rd</sup> .	Sunrise to Sunset. 3 <sup>rd</sup> .	
Scotland.	Oban ... ..	c.or	oc	48	36	-	2	0.8	England, N.W.	Douglas (I.O.M.)							
	Banff ... ..	b	b	47	36	1	-	4.4		Blackpool ... ..	or	oc	49	40	3	-	0.0
	Montrose ... ..									Southport ... ..	o	o	50	39	2	-	0.0
	St. Andrews ... ..	cp	cp	47	36	2	4	1.1									
England, N.E.	Harrogate ... ..	oc	opcb	51	36	0.4	0.1	0.2	Midlands.	Buxton ... ..							0.0
	Skegness ... ..	o	obc.b	55	34	3	-	0.6		Leamington Spa... ..	p	p	53	36	-	1	0.0
	Scarboro	-	-	?	?	1	-	4.0		Malvern ... ..	ps	ps	53	39	3	4	0.0
										Ross-on-Wye ... ..	gr.g.o	ogdog	53	39	2	1	0.0
England, E.	Felixstowe ... ..	ogr	osp	53	38	0.4	1	0.0	Wales.	Rhyl ... ..	rc	p.bcc	55	37	4	0.3	0.0
	Walton-on-Naze...									Colwyn Bay ... ..			55	42	6	-	0.3
	Southend-on-Sea...	or	o	50	36	1	4	0.0		Llandudno ... ..	op	o	55	43	5	0.2	0.2
										Aberystwyth ... ..	roc	eo	49	46	?	?	0.0
England, S.E.	Margate ... ..	og	og	53	38	0.1	3	0.0	England, S.W.	Weymouth ... ..	odo	odo	53	45	1	1	0.0
	Ramsgate ... ..	or	o	52	35	-	2	0.0		Teignmouth ... ..							
	Folkestone ... ..	or	cf	56	38	0.3	6	0.0		Torquay ... ..	oc	oc	54	43	0.2	-	0.0
	Hastings ... ..	f.r	fr	52	39	1	7	0.0		Paignton ... ..	od	odo	54	39	0.3	Trace	0.0
	Eastbourne ... ..	or	rom	52	43	1	6	0.0		Penzance ... ..	od	od	53	48	2	2	0.0
	Brighton ... ..	or	om	49	41	1	3	0.0		Newquay ... ..	ofa	ofa	52	47	3	1	0.0
	Worthing ... ..	or	or	50	35	1	3	0.0		Bude ... ..	r	r	52	46	18	7	0.0
	Littlehampton ... ..	ro	or	51	49	3	2	0.0		Ilfracombe ... ..	orf	orf	53	46	8	9	0.0
	Bournemouth ... ..	-	-	52	45	1	0.3	0.0		Weston-s-Mare ... ..	r	r	51	40	9	6	0.0
	Turnbridge Wells ... ..	-	-	52	36	1	4	0.0									

SUMMARIES FOR PAST 24 HOURS.										THE BEAUFORT SCALE OF WIND FORCE.		
STATIONS.		WEATHER				Max. Temp. °F.		Min. Temp. °F.		Rainfall.		No.
		7h-13h. 2nd.	13h-18h. 3rd.	18h-3h. 4th.	1h-7h. 4th.	°F.	°F.	°F.	°F.	Day. 7h-13h.	Night. 18h-7h.	
†Houton Bay (Orkney)...		ormocbc	opozc	ocodmcb	corg	47	38	36	1	4	1.4	0
†Eskdalemuir ...												1
†Stranraer ...												2
†Lough Foyle ...												3
Valencia (Cahiriveen) ...		oco	odc	c.b.c.cp		54	49	46	-	1	0.1	4
†Anglesey (Llangefni) ...		co	og	op	c.oq	52	45					5
Falmouth ...		d.f.e.g	odfeg	dq.cq	e.b.cq	53	48	44	3	3	0.0	6
†Calshot (Hants) ...		r	r	c.o		52	45					7
†Capel (Folkestone)...		orm	cf.r	q.of	rq	50	48					8
Aberdeen ...		bcb	bq	b.bz		47	39	32	-	-	4.8	9
†East Fortune ...		bccq	pq	qz	bq	51	37					10
†Flamborough Head ...		co.q	bccq	q.b.bc	rq	54	42					11
†Felixstowe ...		p	pd	p	p	53	45					12
†Cranwell (Lines) ...		oco	co	o.b.c.c	bc.cp	54	43					
†Bedford ...		omr	omq	bc.c2	zq	54	44					
Benson ...		ro	or	r.c		53	46	41	6	3		
London (Kew Obs.) ...		odor	ofa.or	or.c.b.c.b		53	47	42	6	4	0.0	

LONDON. OBSERVATIONS.				WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	Humidity % 15 h. 9 h. G.M.T. G.M.T.		SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
				Morning.	Afternoon.	Night.													
24 HOURS ENDED 9h G.M.T. ... 4 <sup>th</sup> ...											YESTERDAY.		TO-DAY.		4 <sup>th</sup> & 5 <sup>th</sup> December ..... 1919.				
				Vertical Component of Solar Radiation per Square Centimetre during yesterday.															
				Total ..... 7.0 ..... Joules.															
				Milliwatts.															
				Average Rate. 2.4															
				Maximum Rate. 8															
Greenwich (Royal Observatory)	or	or	od	54	47	39	9	0.0	88	88									
City (Bunhill Row) ... ..	*	*	*	*	*	*	*	0.0	*	*									
Westminster (St. James's Park)	*	*	*	55	48	41	9	0.0	87	88									
(Admiralty Arch)	orqm	o.orqm	or.c.opq	54	48	*	8	0.0	90	90									
Camden Sq. (British Rainfall)	om.or	or.o	*	53	46	41	10	0.0	93	92									
Kensington Palace ... ..	or.	r.o	*	54	46	41	10	*	18h.93	90									

NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperatures were mostly between 50° and 55° in England and Ireland, and somewhat lower in Scotland. Folkestone reported a maximum of 56°. There was no sunshine in most parts of England, but in Scotland Banff reported 4.4 hours, Aberdeen 4.3 hours and in N.E. England Scarborough had 4.9 hours of sunshine. Rain fell in most districts, Kew and Lerwick each reported a rainfall of 10 mm.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 2197B FRIDAY, 5<sup>TH</sup> DECEMBER...1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H.																													
STATIONS.	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND.		Weather.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND.		Weather.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea	
			Direc.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.				Form.	Amt. 0-10.											
13H. G.M.T. OF 4 <sup>th</sup>															19H. G.M.T. OF 4 <sup>th</sup>														
†Houton B. (Orkney)	1005.8	+2	WSW	5	0	43	82	6	3-4000	St. cu	9	-	-	*	1008.9	+3	WNW	7	bq	36	87	7	-	Cu	1	-	-	*	
†Eskdalemuir ...														*														*	
†Stranraer ...														*														*	
†Lough Foyle ...														*														*	
Valencia (Cahire'n)	1022.4	+4	W	6	C	50	75	7	2-3000	Cu	7	-	-	5	1027.1	+5	W	5	C	49	65	7	2-3000	Cu	7	-	-	5	
†Anglesey (Llangefni)	1013.0	-4	WSW	5	od.	44	92	5	1-1500	Nb	10	-	-	6	1017.5	+2	W	6	C	41	82	?	2-3000	St. cu	7	-	-	6	
Falmouth ...	1024.0	-1	W	6	b.	53	75	5	-	-	-	-	-	*	1026.2	+3	WNW	7	bq	49	82	6	-	Cum b.	3	-	-	*	
†Calshot (Hants) ...	1021.4	0	W	4	0	51	92	4	1-2000	St	9	-	-	3	1019.5	-1	NW	7	0	45	92	2	1-2000	St	10	-	-	3	
†Capel (Folkestone)	1019.3	-1	WSW	6	0	50	87	4	2-3000	St. cu	8	Ci	1	3	1016.7	-5	WSW	6	Alrh.	47	98	5	1-1000	Nb	10	-	-	6	
Aberdeen ...	998.9	+1	WSW	4	bc	42	65	7	-	-	-	Faci	4	2	1002.5	+5	W	4	b.	41	65	7	-	-	-	Faci	3	2	
†East Fortune ...	1002.6	+1	WSW	6	bc	43	75	5	2-3000	St. cu	3	Ast.	2	*	1005.9	+3	W	5	bc	39	82	?	2-3000	St. cu	2	Ast.	1	*	
†Flamboro' Head	1008.8	0	WNW	5	bq	47	65	6	5-7000	Cu	2	Ast.	2	*														*	
†Felixstowe ...														*	1013.6	-4	NW	6	og	45	92	4	3-4000	Cum b.	10	-	-	4	
†Cranwell (Lines)	1013.3	0	SW	6	bc	49	65	7	2-3000	St. cu	1	Ci	4	*	1018.0	0	W	6	0	41	87	6	1-2000	St. cu	5	Ci. st.	4	*	
†Bedford ...	1016.1	-1	WSW	2	CZ	48	75	6	1-2000	St	4	Ci. cu	3	*	1014.9	+4	WNW	4	CZ	45	75	6	2-3000	St	7	-	-	*	
Benson ...	1017.3	-1	WSW	5	bc	51	75	6	-	-	-	-	-	*	1017.1	+1	W	3	b.	48	87	8	-	-	-	-	-	*	
London (Kew Ob.)	1012.4	0	W	4	C	52	65	7	3-4000	Cu	7	A. cu	1	*	1016.9	0	W	4	bc	45	87	6	2-3000	Fr. cu	4	-	-	*	
1H. G.M.T. OF 5 <sup>th</sup>															7H. G.M.T. OF 5 <sup>th</sup>														
†Houton B. (Orkney)	1012.2	+2	W	6	og	42	87	6	-	St. cu	9	-	-	*	1015.0	+1	SW	4	odm.	41	92	5	-	Nb	10	-	-	*	
†Eskdalemuir ...														*														*	
†Stranraer ...														*														*	
†Lough Foyle ...														*														*	
Valencia (Cahire'n)	1026.6	0	WNW	2	bc	50	*	*	*	*	*	*	*	*	1020.3	-8	SW	6	og	53	87	6	-	St. cu	10	-	-	0	
†Anglesey (Llangefni)	1021.8	+5	W	5	bc	49	82	2	1-2000	St	1	Ast.	5	5														*	
Falmouth ...	1030.5	+2	WSW	4	b	43	82	5	-	-	-	-	-	*	1028.7	-2	SW	4	0	47	92	5	-	Cum b.	10	-	-	*	
†Calshot (Hants) ...														*	1027.7	-1	W	3	02	45	87	6	1-2000	St.	10	-	-	3	
†Capel (Folkestone)	1022.5	+7	SW	7	b	40	75	8	-	-	-	-	-	5	1025.1	+4	SW	5	bc	32	75	5	-	-	-	Ast.	5	4	
Aberdeen ...	1009.9	+5	W	4	b	42	82	-	-	-	-	-	-	*	1008.2	0	SW	3	0	42	65	7	-	St. cu	9	-	-	2	
†East Fortune ...														*	1011.5	+2	SW	5	0	43	75	-	2-3000	St. cu	9	-	-	*	
†Flamboro' Head	1013.6	+4	SW	5	C	39	87	6	3-4000	St	5	Ast.	3	*	1015.1	+2	W	4	C	41	92	4	3-4000	St.	5	Ast.	3	*	
†Felixstowe ...	1020.3	+6	W	5	q	42	87	5	-	-	-	-	-	5	1022.3	+3	W	4	b	41	87	4	3-4000	Nb	2	Ci. st.	1	3	
†Cranwell (Lines)	1018.8	+5	W	5	C	42	87	6	1-2000	St. cu	5	Ast.	3	*	1019.7	+1	W	4	0	41	82	7	2-3000	St.	4	Ast.	5	*	
†Bedford ...	1021.5	+3	W	2	q	41	75	5	-	-	-	-	-	*	1022.1	+1	W	3	og	41	82	6	2-3000	St.	10	-	-	*	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.3	-1	WSW	3	0	41	87	6	-	St.	10	-	-	*	
London ...	1021.8	+1	*	*	b	*	*	*	*	*	*	*	*	*	1024.4	+1	WSW	2	om	42	82	4	2-3000	St. cu	9	-	-	*	
(M.O. at 1H.)																													
STATIONS CONTRIBUTING REPORTS AT 7H AND 19H.																													
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND.		Weather.	BAROMETER.		TEMPERATURE.		WIND.		DIREC. of Upper Cloud.	Weather.	SEA	RAINFALL mm.	TEMP.			WEATHER.			SUNSHINE Hours.							
			at M.S.L. m.b.	† Change in 3 hours.		Temp. °F.	Change in 24 hours.	Direc.	Force 0-12.	Max. °F.	Min. °F.					Morning.	Afternoon.	Night.											
19H. G.M.T. OF 4 <sup>th</sup>															7H. G.M.T. OF 5 <sup>th</sup>														
Lerwick ...	991.0	44	W	4	cmq	1001.0	+3	41	-1	W	1	-	om	2	3	45	39	rhk	rhk	omr	*								
Stornoway ...	1001.4	41	W	3	bc	1003.9	-7	43	+1	SW	3	-	0	2	5	43	39	ohq	bch	bcp.0	0.0								
Castlebay (Barra's)	1006.6	43	WNW	5	ohp	1005.9	?	45	+2	SE	4	-	or	5	5	47	41	bch. ch	hpc. ch	hpc. cr	0.4								
Glasgow ...	1008.8	40	W	5	oh	1012.3	-2	44	+4	SW	4	-	og	*	12	44	38	ogp	ohp	thorh	0.0								
Malin Head ...	1009.7	46	W	5	cmq	1007.3	-5	44	0	S	4	-	omr	5	8	48	40	chq	cmq	omr	0.9								
Blacksod Point	1008.6	47	WNW	5	cmq	1010.5	-14	51	+7	WSW	7	-	r	7	8	52	38	bcp. q	cmq	bcp. q	*								
Roche's Point...	1025.4	45	WNW	3	b	1022.7	-6	50	+4	W	4	-	0	4	1	53	43	bc. ch.	Cb	bc. a	*								
Birr Castle ...	1021.8	43	W	3	C	1016.4	*	48	+5	W	2	-	r	*	4	48	39	ch. op. q	cmq	od. por	1.7								
Donaghadee ...	1013.3	40	WSW	4	bmq	1016.0	-2	42	0	SW	2	-	omr	1	2	44	40	omd	om bq	bcp. q	*								
Liverpool (Bidston)	1013.9	44	W	8	bc	1019.2	0	45	0	W	4	-	0	5	2	48	43	bcp. q	bcp. q	C. q. 0	0.7								
Holyhead ...	1017.3	45	NW	9	Cq	1019.7	-3	47	0	WSW	5	-	opgm	4	4	49	42	b. bc. Cq	chq	b. bc. C. 0	1.1								
†Pembroke (St. Ann's Head)	1022.3	47	WNW	7	bq	1024.4	-2	49	-1	SW	5	-	0	6	2	52	47	bq	Cqpl	bq. C. 0	3.6								
Scilly (St. Mary's)	1027.1	50	WNW	6	bm	1028.9	-2	50	0	WSW	4	W	bm	6	-	52	47	bc. bm	om	bm	5.9								
Jersey (St. Aubin)	1026.4	52	W	5	b	1029.7	0	49	-1	W	3	-	0	3	0.1	54	45	b. og.	og. b.	Cd. b. 0	3.7								
Portland Bill ...	1020.9	48	WNW	7	og	1026.5	0	48	-2	W	6	-	bc	6	1	53	47	bc. l.	q	bc	*								
Dungeness ...	1017.9	50	SW	8	Cq	1024.0	?	42	-6	W	4	SW	b	4	3	51	39	bcq	Cqpl	qpl. b	*								
Wick ...	998.5	39	W	3	cmq	1004.9	+1	37	0	WSW	2	-	om	2	0.1	42	35	omq	omq	bc. om	*								
Nairn ...	1002.7	38	W	2	bc	1006.7	*	42	+3	W	1	-	Cq	2	4	42	36	om. C.	hpc. v	Pbcp	1.0								
Leith ...	1006.2	39	SW	3	bc	1011.3	0	44	+3	SW	4	-	ogq	3	2	44	38	bq. ad	o. Cq. bc	Cp. Cq. 0	*								
Tynemouth ...	1007.4	39	W	3	Cq	1013.0	+2	44	-1	W	2	-	bcq	2	1	45	38	bcp. q	bcq	bcq	*								
Spurn Head ...	1009.2	43	WNW	6	Cq	1016.2	+2	43	-2	WNW	5	-	bcq	4	2	46	40	bcp. q	bcq	bcq	*								
Yarmouth (Gorleston)	1011.6	42	NW	3	C	1018.0	+2	40	-7	NW	4	-	bc	3	5	51	39	bc	cmr	bcp. q	5.3								
Clacton-on-Sea	1013.2	48	WNW	6	ohp	1021.9	+1	40	-6	WNW	4	-	bc	3	5	49	39	bcp	Cq. l.	C. bc. b	2.5								
Nottingham ...																													



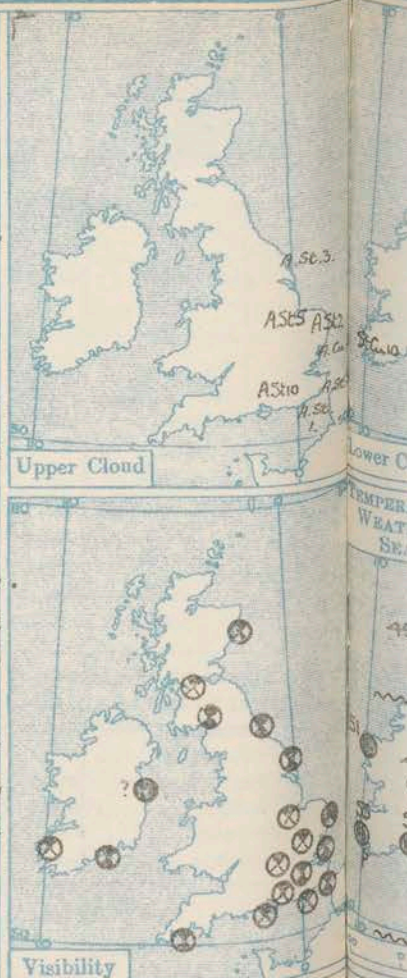
# SUMMARY OF CONDITIONS AT 7 A.M. Friday, 5th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	SW-W 10-25	Mod.	Fair to dull; local mist.	Fair	Mod.
2. E. England	WSW-NW 10-20	"	Fair to dull.	Ord.	Slight
3. E. Midlands	WSW; 10.	"	Dull.	Fair.	-
4. W. Midlands	SW-W 10-15.	r.mild.	Dull.	Good	-
5. S.W. England	SW-W 20-30	"	Fair to dull.	Fair	rough
6. South Wales	SW. 20-25	"	Dull.	"	"
7. North Wales	SW-W 15-25.	"	Dull; local showers and mist.	Ord.	r.rough
8. N.W. England	SW-W 10-15	"	Dull; local drizzle and mist.	"	Mod.
9. N. Midlands	W. 5-15.	Mod.	Dull.	Good.	-
10. N.E. England	W-NW 10-25	"	Fair to cloudy; squally.	"	Slight.
11. E. Scotland	SW 10-20	r.mild.	Cloudy to dull.	Fair	Smooth
12. S.W. Scotland	SW 10-20	"	Dull; local drizzle and mist.	"	Slight
13. Isle of Man	SW 10-20.	Mod.	Dull; showers.	Ord.	"
14. N.&N.W.Scot- land	SW-W 5-10.	r.mild.	Cloudy to dull; local mist.	-	Smooth
15. Hebrides	SE-SW 10-20	Mod.	Dull; local rain.	Ord.	Slight
16. Orkneys and Shetlands	SW-W 2-5-	"	Dull; misty.	"	Smooth
17. N.W. Ireland	SW-W 25-35	Mild.	Dull, raining.	-	rough
18. N.E. Ireland	S-SW 5-15.	Mod.	Dull, raining, misty.	-	Mod.
19. S.E. Ireland	S-W 10-20	r.mild.	Dull; local rain.	Fair.	"
20. S.W. Ireland	SW-W 20-30	v.mild.	Dull; local showers.	"	r.rough

GENERAL INFERENCE from observations received up to 9 a.m.

A new depression which has appeared off the S.W. of Iceland, and secondaries arising from it, will cause mild unsettled weather generally with strong South-Westerly winds.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & cloud. ○ sky & cloud. ○ sky & cloud.  
 ⊙ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. F thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High



Districts.	Forecasts for the 24 hours commencing 3 p.m. Friday, 5th December, 1919.	Further Outlook.
1. S.E. England	Moderate to strong S.W. winds. Cloudy to dull, some showers or rain. Mild.	A mild unsettled South
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Fresh or strong South-Westerly winds, reaching gale force in exposed places. Dull; some rain or showers. Coastal mist or fog in places. Mild.	Westerly or
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands	Same as 1 - 4.	Westerly type
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Same as 5 - 8.	is probable.
13. Isle of Man		
14. N.&N.W.Scot- land		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland		
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		



# SYNOPTIC CHART FOR MORNING OF FRIDAY, 5<sup>TH</sup> DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles 100 0 100 200  
Statute Miles 100 0 100 200





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

STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-19h. 3-5	Day. 9h-17h. 3-5	Sunrise to Sun- set. 4-6	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-19h. 3-5	Day. 9h-17h. 3-5	Sunrise to Sun- set. 4-6		
Scotland.	Oban ... ..	ot.ch	c	48	41	4	1		0.1	England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	b	bc	43	38	0.2	-		3.7		Blackpool ... ..								
	Montrose ... ..										Southport ... ..	c.ot	o.ch	47	43	3	1		0.1
	St. Andrews ... ..													47	42	2	1		0.3
England, N.E.	Harrogate ... ..	b.bc.c	oh.ch	47	40	7	3		1.0	Midlands.	Buxton ... ..								
	Skegness ... ..	b	b.ot.by	50	41	-	2		5.1		Leamington Spa... ..	bc.c.b.	bc.t.c.	50	46	2	2		0.7
	Scarborough ... ..	-	-	60	43	2	-		3.6		Malvern ... ..	q	q	50	44	2	5		2.3
											Ross-on-Wye ... ..	c.bc.q	c.q.q.q	52	44	3	3		3.1
England, E.	Felixstowe ... ..	bcq	ogq†	52	46	3	1		3.7	Wales.	Rhyl ... ..	b.h.c	c.h	49	40	0.4	4		1.0
	Walton-on-Naze... ..										Colwyn Bay ... ..	-	-	49	41	-	8		1.0
	Southend-on-Sea... ..	ofbc	c.ot.r	51	44	4	5		2.0		Llandudno ... ..	c	c.h	52	41	-	6		0.8
											Aberystwyth ... ..	r.o.c.	c.o.c.	48	45	†	†		1.0
England, S.E.	Margate ... ..	c.b.	b.bc.c.	53	47	2	3		2.6	England, S.W.	Weymouth ... ..	b.bc.	bcq.h.o.	55	48	1	1		4.6
	Ramsgate ... ..	bc	bc	51	48	3	-		1.3		Teignmouth ... ..								
	Folkestone ... ..	c.a.b.c.o	or	52	46	3	-		1.8		Torquay ... ..	b.bc.c.	c.bc.c.	54	50	1	-		4.9
	Hastings ... ..	bc.b.	bc.ot	53	46	2	1		4.6		Paignton ... ..	bcq.	bc.bq.	55	49	0.3	-		3.4
	Eastbourne... ..	oce.c.	c.c.ot	52	48	3	1		4.7		Penzance ... ..	b.bc	bc	50	50	2	-		5.6
	Brighton ... ..	bc	bc.c.	51	47	4	-		4.6		Newquay ... ..	-	-	52	49	2	-		4.4
	Worthing ... ..	bc	bc.c.	52	46	6	-		4.8		Bude ... ..	c	b	53	46	5	-		1.0
	Littlehampton ... ..	bc	og	52	50	5	-		4.7		Ilfracombe ... ..	bc.c.o.	og.h.c.	52	49	4	6		2.0
	Bournemouth ... ..	b	-	53	48	1	1		4.9		Weston-s-Mare ... ..	b.	bc.h.c.	51	47	4	1		4.8
	Tombridge Wells ... ..	b.bc.	bc.ot.	53	42	2	3		3.4										

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
	7h-13h.	13h-18h.	18h-24h.	1h-7h.				Day. 7h-18h.	Night. 18h-7h.	
†Houton Bay (Orkney)...								*	*	*
Esksdalemuir ...	c.ot.q.o.	oh.h.o.s.c.	q.p.q.b.c.o.p.	og.od.m.	42	33	33	7	3	0.0
†Stranraer ...								*	*	*
†Lough Foyle ...								*	*	*
Valencia (Cahirciveen)...	a.b.b.c.	c.b.c.	† bc.c.o.r		53	48	44	-	-	2.1
†Anglesey (Llangefni)...	†.tl	c.o.g.	q.b.c.					*	*	*
Falmouth ...	bcq.p.	b.b.c.q.	bq.b	bc.o	54	41	34	Trace	-	5.1
†Calshot (Hants) ...	c.o.	h.z	c.o	53	40	*	*	*	*	*
†Capel (Folkestone)...	c.v.	h.z	bc.c.r.	29	50	32	*	*	*	*
Aberdeen ...	b.bc.	bc.bq.	6.b.c.o	42	39	32	-	-	-	3.0
†East Fortune ...	q.b.bc.	q.0	b.bc.0	44	39	*	*	*	*	*
†Flamborough Head ...	b.b.c.q.		b.b.c.q.	47	37	*	*	*	*	*
†Felixstowe ...		h.z	b.b.c.p.	52	40	*	*	*	*	*
†Cranwell (Lincs) ...	v.b.o.	c.ot.	bc.c.c.o	49	38	*	*	*	*	*
†Bedford ...	q	h.z	b.b.c.q.	50	37	*	*	*	*	*
Benson ...	h.b.c.	bc.t.r	bc.c.z	50	37	*	*	*	*	*
London (Kew Obsy.) ...	bc.ot.dp.	c.ch.colr	c.b.o	51	39	31	4	-	-	
			b.bc.c.o	52	42	36	4	0.1	2.3	

## BEAUFORT NOTATION.

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

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity. 0=slight, 2=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ❄ Lunar halo ☾  
Glazed frost ☁ Solar corona ☉  
Glazed roads ☁ Lunar corona ☾

## LONDON OBSERVATIONS.

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. in.	Sun- shine to Sunset. Hours.	HUMIDITY %	
	Morning	Afternoon.	Night.						15 h. G.M.T.	9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. ... 5th....							YESTERDAY.	To-DAY.	
Greenwich (Royal Observatory)	c. o	a. p. t. r	b. c. c. o	52	40	30	3	2.6	74	82
City (Bunhill Row) ... ..	*	*	*	*	*	*	*	0.9	*	*
Westminster (St. James's Park)	*	*	*	54	40	32	3	2.7	75	81
" (Admiralty Arch)	c. p. q. m	c. p. t. r	b. c. c. o	54	42	*	3	2.3	83	84
Camden Sq. (British Rainfall)	ad. b. c	b. c. o. t. r	*	52	39	33	3	2.0	78	84
Kensington Palace ... ..	or.	o	*	53	40	33	4	*	18.84	83

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	YESTERDAY.		TO-DAY.	
	15 h. G.M.T.	9 h. G.M.T.	15 h. G.M.T.	9 h. G.M.T.
Total ...	143	143	143	143
Average Rate.	5.0	5.0	5.0	5.0
Maximum Rate.	19	19	19	19

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

5th & 6th December 1919.			
Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth...	7.47	11.44	3.40
Greenwich	7.49	11.44	3.39
Wick ...	7.51	11.51	3.51
Valencia ...	8.45	12.3	3.21
	8.47	12.3	3.20
	8.33	12.32	4.30
	8.35	12.32	4.29

## NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperatures were again mostly above 50° in England and South Ireland, but did not reach that figure in Scotland and North Ireland. The most sunshine was experienced in East, South-East and South-West England. Penzance recorded 5.6 hours and Skegness 5.1 hours of sunshine. Rain or showers were experienced in most districts. Glasgow had a rainfall of 12 m.m. and Malin Head and Blackgod Point 8 m.m. each.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

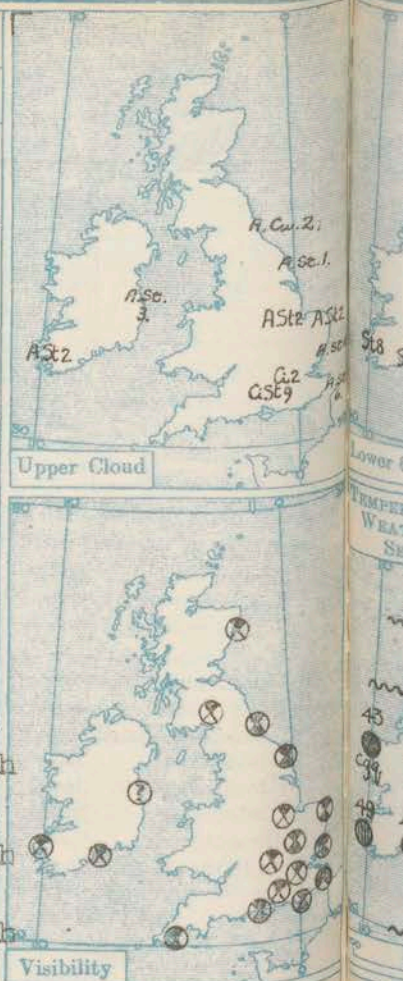
No. 24, 198. B SATURDAY, 5TH DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																												
STATIONS.	BAROM.	Change	WIND.	Weather.	TEMP.	HUMIDITY.	VISIBILITY.	HEIGHT	LOW CLOUD.	UPPER CLOUD.	SEA	BAROM.	Change	WIND.	Weather.	TEMP.	HUMIDITY.	VISIBILITY.	HEIGHT	LOW CLOUD.	UPPER CLOUD.	SEA						
	at	in 3	Dir.		°F.	%	0-10.	Feet.	Form.	Form.	0-9.	at	in 3	Dir.		°F.	%	0-10.	Feet.	Form.	Form.	0-9.						
	M.S.L.	hours.	Force										M.S.L.	hours.		Force												
13H. G.M.T. OF 5th												18H. G.M.T. OF 5th																
†Houton B. (Orkney)	1001.9	-11	SW	5	odm	45	98	4	1-1500	Nb	10	-	-	1002.8	+2	W	6	bca	41	82	6	-	Cu	6	-	-	*	
†Eskdalemuir ...	1001.9	-11	SW	5	odm	45	98	4	1-1500	Nb	10	-	-	1002.8	+2	W	6	bca	41	82	6	-	Cu	6	-	-	*	
†Stranraer ...	1001.9	-11	SW	5	odm	45	98	4	1-1500	Nb	10	-	-	1002.8	+2	W	6	bca	41	82	6	-	Cu	6	-	-	*	
†Lough Foyle ...	1018.9	+1	W	6	ot	52	98	5	1-1000	St	10	-	-	1018.8	+1	WNW	4	o	50	75	7	2-3000	St	9	-	-	5	
Valencia (Cahire'n)	1018.9	+1	W	6	ot	52	98	5	1-1000	St	10	-	-	1018.8	+1	WNW	4	o	50	75	7	2-3000	St	9	-	-	5	
†Anglesey (Llangefnab)	1010.7	-8	SW	6	o	49	98	2	1-1500	Nb	10	-	-	1011.1	+3	W	4	c	4	76	1	1-2000	St	7	-	-	4	
Falmouth ...	1022.0	-9	WSW	8	odm	51	87	1	-	Nb	10	-	-	1019.0	-1	WSW	8	odg	53	92	1	-	Nb	10	-	-	3	
†Calshot (Hants) ...	1021.7	-1	W	5	o	48	98	3	1-2000	St	10	-	-	1014.4	-5	W	6	odg	50	98	2	1-2000	Nb	10	-	-	3	
†Capel (Folkestone)	1021.3	-8	SW	4	or.f.	43	98	1	1-1000	Nb	10	-	-	1012.3	-9	SW	7	efz	47	98	0	<500	Nb	10	-	-	4	
1H. G.M.T. OF 6th												7H. G.M.T. OF 6th																
†Houton B. (Orkney)	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Eskdalemuir ...	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Stranraer ...	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Lough Foyle ...	1014.9	-0	WSW	4	bc	50	*	*	*	*	*	*	*	1011.8	-4	W	6	o	49	75	7	-	sh	8	Ast	2	*	
Valencia (Cahire'n)	1014.9	-0	WSW	4	bc	50	*	*	*	*	*	*	*	1011.8	-4	W	6	o	49	75	7	-	sh	8	Ast	2	*	
†Anglesey (Llangefnab)	1008.5	-5	W	6	c	46	87	2	1-2000	St	7	Ast	1	1004.4	-4	W	5	bc	43	87	-	2-3000	St	5	-	-	6	
Falmouth ...	1017.6	-2	WNW	5	o	47	87	2	-	Nb	6	Ast	2	1014.5	-2	W	5	o	49	75	5	-	sh	10	-	-	*	
†Calshot (Hants) ...	1016.3	0	W	2	o	53	98	4	1-2000	St	10	-	-	1009.7	-3	W	3	o	45	92	4	1-2000	St	10	-	-	3	
†Capel (Folkestone)	1012.1	+1	NW	4	bc	45	82	6	3-4000	Cu	5	-	-	1009.6	-4	SW	5	om	40	98	3	3-4000	St	4	Ast	4	4	
Aberdeen ...	997.0	-15	S	4	omg	42	92	6	-	Nb	9	-	-	994.8	+2	W	5	b	43	65	7	-	-	-	Ast	1	2	
†East Fortune ...	998.6	-17	SSW	4	o	43	75	6	2-3000	St	7	-	-	999.2	+2	WNW	6	b	43	82	7	2-3000	St	2	-	-	*	
†Flamboro' Head	1009.2	-7	SW	6	o	43	82	3	<500	St	10	-	-	1003.1	+1	W	6	b	47	75	6	-	-	-	Ast	1	*	
†Felixstowe ...	1018.8	-6	WSW	4	od	43	98	4	1-2000	Nb	10	-	-	1009.0	-10	WSW	6	og	49	92	3	1-1500	Cl	10	-	-	6	
†Cranwell (Lincs)	1012.5	-12	S	5	o	40	92	6	1-2000	St	3	Ast	7	1007.4	+1	W	5	bc	48	87	6	2-3000	St	3	Ci	3	*	
†Bedford ...	1016.1	-6	SW	4	or.g	45	92	2	<500	St	10	-	-	1009.1	-4	SW	4	od	49	92	3	3-4000	St	4	Ast	6	*	
Benson ...	1017.1	-11	SSW	3	o	45	98	4	-	-	-	-	-	1011.2	-5	WSW	3	o	50	92	5	-	Cu	3	Ci	3	*	
London (Kew Obs.)	1018.9	-11	SW	4	or.m	46	98	4	2-3000	Nb	8	Ast	2	1011.6	-7	WSW	4	om	50	92	3	2-3000	St	10	-	-	*	
18H. G.M.T. OF 6th												7H. G.M.T. OF 6th																
†Houton B. (Orkney)	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Eskdalemuir ...	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Stranraer ...	1000.6	-4	W	6	og	39	82	6	-	St	9	-	-	993.4	-3	WSW	5	ors	36	87	6	-	Nb	10	-	-	*	
†Lough Foyle ...	1014.9	-0	WSW	4	bc	50	*	*	*	*	*	*	*	1011.8	-4	W	6	o	49	75	7	-	sh	8	Ast	2	*	
Valencia (Cahire'n)	1014.9	-0	WSW	4	bc	50	*	*	*	*	*	*	*	1011.8	-4	W	6	o	49	75	7	-	sh	8	Ast	2	*	
†Anglesey (Llangefnab)	1008.5	-5	W	6	c	46	87	2	1-2000	St	7	Ast	1	1004.4	-4	W	5	bc	43	87	-	2-3000	St	5	-	-	6	
Falmouth ...	1017.6	-2	WNW	5	o	47	87	2	-	Nb	6	Ast	2	1014.5	-2	W	5	o	49	75	5	-	sh	10	-	-	*	
†Calshot (Hants) ...	1016.3	0	W	2	o	53	98	4	1-2000	St	10	-	-	1009.7	-3	W	3	o	45	92	4	1-2000	St	10	-	-	3	
†Capel (Folkestone)	1012.1	+1	NW	4	bc	45	82	6	3-4000	Cu	5	-	-	1009.6	-4	SW	5	om	40	98	3	3-4000	St	4	Ast	4	4	
Aberdeen ...	997.0	-15	S	4	omg	42	92	6	-	Nb	9	-	-	994.8	+2	W	5	b	43	65	7	-	-	-	Ast	1	2	
†East Fortune ...	998.6	-17	SSW	4	o	43	75	6	2-3000	St	7	-	-	999.2	+2	WNW	6	b	43	82	7	2-3000	St	2	-	-	*	
†Flamboro' Head	1009.2	-7	SW	6	o	43	82	3	<500	St	10	-	-	1003.1	+1	W	6	b	47	75	6	-	-	-	Ast	1	*	
†Felixstowe ...	1018.8	-6	WSW	4	od	43	98	4	1-2000	Nb	10	-	-	1009.0	-10	WSW	6	og	49	92	3	1-1500	Cl	10	-	-	6	
†Cranwell (Lincs)	1012.5	-12	S	5	o	40	92	6	1-2000	St	3	Ast	7	1007.4	+1	W	5	bc	48	87	6	2-3000	St	3	Ci	3	*	
†Bedford ...	1016.1	-6	SW	4	or.g	45	92	2	<500	St	10	-	-	1009.1	-4	SW	4	od	49	92	3	3-4000	St	4	Ast	6	*	
Benson ...	1017.1	-11	SSW	3	o	45	98	4	-	-	-	-	-	1011.2	-5	WSW	3	o	50	92	5	-	Cu	3	Ci	3	*	
London (Kew Obs.)	1018.9	-11	SW	4	or.m	46	98	4	2-3000	Nb	8	Ast	2	1011.6	-7	WSW	4	om	50	92	3	2-3000	St	10	-	-	*	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H																												
STATIONS.	BAROM.	TEMP.	WIND.	Weather.	BAROMETER.	TEMPERATURE.	WIND.	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.	Force	Dir.		
	at	°F.	Dir.		Force	at	°F.		Dir.	Force	at	°F.	Dir.	Force	at	°F.	Dir.	Force	at	°F.	Dir.	Force	at	°F.	Dir.	Force	at	°F.
	M.S.L.					M.S.L.						M.S.L.				M.S.L.				M.S.L.				M.S.L.				M.S.L.
18H. G.M.T. OF 5th												7H. G.M.T. OF 6th																
Lerwick ...	996.3	40	-	0	omr	984.9	-1	41	0	E	4	-	0	3	7	43	38	om	omr	omr	omr	omr	omr	omr	omr	omr	omr	
Stornoway ...	994.3	42	WNW	5	bc	987.8	-3	40	-3	WNW	5	-	cqp	4	11	47	38	bca	bca	bca	bca	bca	bca	bca	bca	bca		
Castlebay (Barra Is)	999.9	47	W	6																								



# SUMMARY OF CONDITIONS AT 7 A.M. Saturday, 6th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	W-WSW 15-25	Mod.	Cloudy to dull; coastal mist.	Good	Mod.
2. E. England	WSW-W 10-20	"	Fair to cloudy.	Fair	Slight
3. E. Midlands	W-WSW 10-15	"	Fair to cloudy.	Good	-
4. W. Midlands	W. 10-15	"	Cloudy to dull.	"	-
5. S.W. England	W. 25-30	r.mild	Dull; squally; local mist	Fair	rough
6. South Wales	W. 25-30	"	Dull; squally.	Good	"
7. North Wales	W. 25-35	Mod.	Fair to cloudy; squally.	"	r.rough
8. N.W. England	W. 25-30	"	Cloudy to dull; squalls; local showers.	"	"
9. N. Midlands	W 15-20	"	Fair to cloudy.	"	-
10. N.E. England	W. 15-25	"	Fair to cloudy; squally.	Fair	Mod.
11. E. Scotland	W-WSW 10-20	r.cool.	Fair.	Good	Smooth
12. S.W. Scotland	W-WSW 15-25	"	Dull; local rain & sleet	Fair	Mod.
13. Isle of Man	W. 15-20	Mod.	Fair to cloudy; squally.	-	"
14. N. & N.W. Scotland	W. 5-10	r.cool	Fair.	-	slight
15. Hebrides	W-VNW 25	"	Cloudy to dull; local showers; squally	Fair	r.rough
16. Orkneys and Shetlands	E. 15-20	Mod.	Cloudy to dull.	Mod.	Slight
17. N.W. Ireland	W-VNW 25-30	"	Cloudy; showers; squally	Fair	r.rough
18. N.E. Ireland	W. 10-15	r.cool	Fair to cloudy; squally.	Good	Mod.
19. S.E. Ireland	W. 15-20	Mod.	Dull.	"	r.rough
20. S.W. Ireland	W. 15-25	r.mild	Dull.	"	"



GENERAL INFERENCE from observations received up to 9 a.m.

A depression centred near the Shetlands is moving South East. Some temporary improvement in the weather is probable.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

Districts.	Forecasts for the 24 hours commencing 3 p.m.
1. S.E. England	Fresh or strong West to N.W. Winds, backing later. Fair intervals, some showers. Moderate temperature.
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	Fresh or strong winds between W. and N.W. Fair intervals some showers. Moderate temperature.
15. Hebrides	
16. Orkneys and Shetlands	Moderate or fresh East to N.E. Winds. Cloudy to dull, rain at times. Moderate temperature.
17. N.W. Ireland	
18. N.E. Ireland	Same as 1 13.
19. S.E. Ireland	
20. S.W. Ireland	

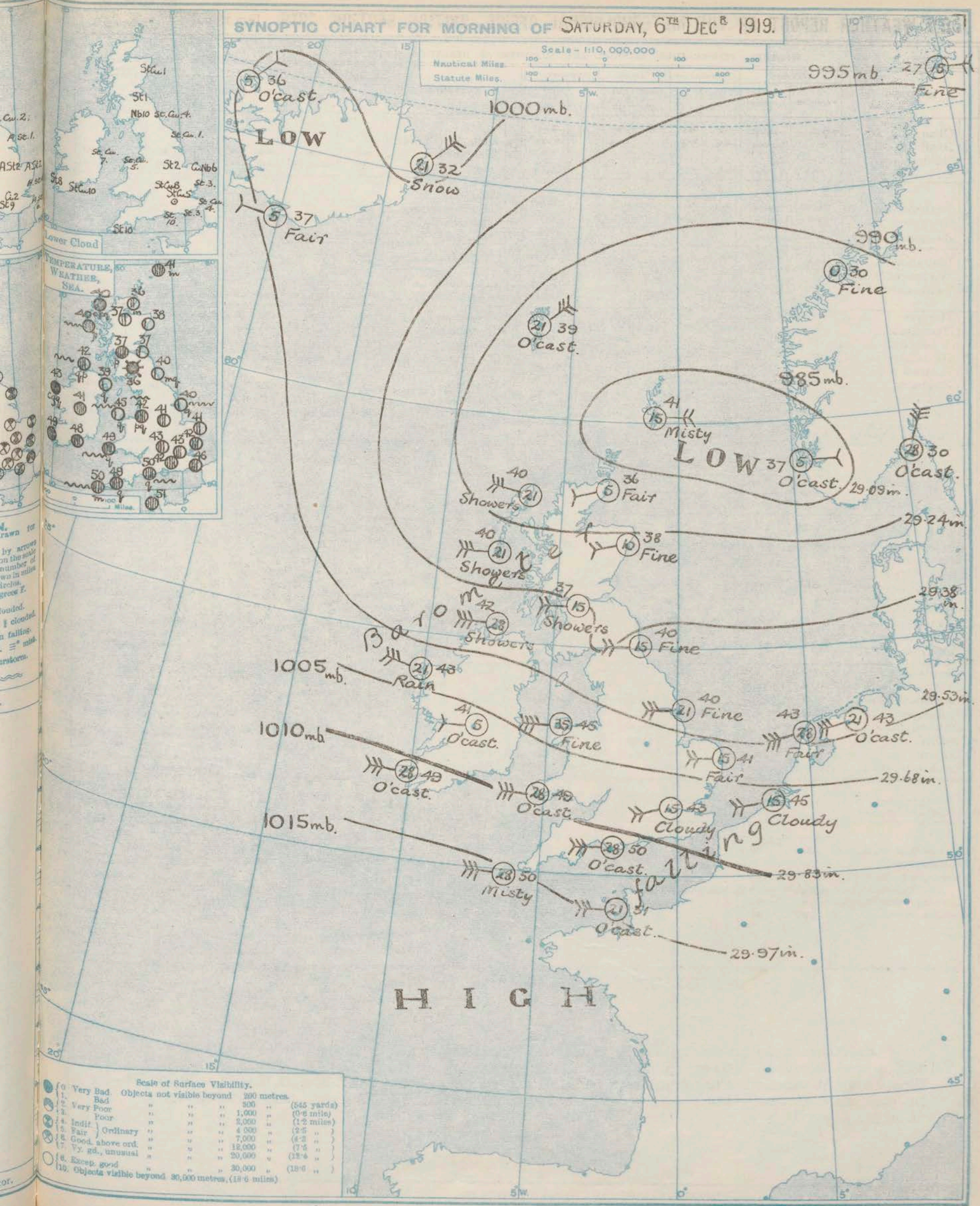
Further Outlook.

Further disturbances from the Atlantic will probably arrive and maintain unsettled conditions.



# SYNOPTIC CHART FOR MORNING OF SATURDAY, 6<sup>TH</sup> DEC<sup>R</sup> 1919.

Scale - 1:10,000,000  
Nautical Miles  
Statute Miles.



## Scale of Surface Visibility.

Symbol	Very Bad	Bad	Objects not visible beyond	200 metres
1	Very Bad	Bad	800 "	(545 yards)
2	Very Poor	"	1,000 "	(0.6 miles)
3	Poor	"	2,000 "	(1.2 miles)
4	Indist.	Ordinary	4,000 "	(2.5 " )
5	Fair	"	7,000 "	(4.3 " )
6	Good, above ord.	"	12,000 "	(7.5 " )
7	Vy. gd., unusual	"	20,000 "	(12.4 " )
8	Except. good	"	30,000 "	(18.6 " )
10	Objects visible beyond	"	30,000 metres, (18.6 miles)	



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 340. B

Saturday  
6<sup>th</sup> December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 5 <sup>th</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 4h.	Day. 9h-17h. 5h.	Sunrise to Sunset. 5h.	Forenoon.			Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 4h.	Day. 9h-17h. 5h.	Sunrise to Sunset. 5h.		
Scotland.	Oban ...	r.o.d.	c.p.c.	48	41	8	4	0.1	England, N.W.	Douglas (I.O.M.)									
	Banff ...	o	c.b.c.	45	39	-	0.4	0.0		Blackpool ...	or	o	49	43	3	6	0.0		
	Montrose ...									Southport ...	ro	o.c.b.c.	48	47	1	4	0.0		
	St. Andrews ...	ch	ch	48	37	-	2	0.3											
England, N.E.	Harrogate ...	o.p.c.	o.p.c.b.	49	37	1	2	0.0	Midlands.	Buxton ...									
	Skegness ...	or	or.b.	50	40	-	2	0.0		Leamington Spa...	or	r	49	40	-	3	0.0		
	Scarborough ...	-	-	?	?	1	-	0.0		Malvern ...	r	c.b.c.b.	52	41	-	7	0.0		
										Ross-on-Wye ...	or	rg.o.g.b.c.	54	41	0.1	3	0.0		
England, E.	Felixstowe ...	o.g.g.	o.g.g.r.	46	41	2	4	0.0	Wales.	Rhyl ...	b.c.f.	h.o.	54	42	1	3	0.0		
	Walton-on-Naze...									Colwyn Bay ...	-	-	52	43	1	2	0.0		
	Southend-on-Sea...	o.g.	o.g.g.	49	37	-	5	0.0		Llandudno ...	o.p.	o.p.	53	43	1	2	0.0		
										Aberystwyth ...	r.o.c.	c.o.o.	48	45	-	-	0.0		
England, S.E.	Margate ...	o	or	50	39	0.2	5	0.0	England, S.W.	Weymouth ...		d	54	43	1	1	0.0		
	Ramsgate ...	o	o	47	37	2	4	0.0		Teignmouth ...	o.g.								
	Folkestone ...	o	or	48	38	-	9	0.0		Torquay ...	o	o.p.	54	42	0.4	0.4	0.0		
	Hastings ...	o	or	50	38	2	8	0.0		Paignton ...	c.o.p.	o.p.g.	54	39	-	0.3	0.0		
	Eastbourne...	or	o	51	41	2	13	0.0		Penzance ...									
	Brighton ...	or	r	49	41	2	9	0.0		Newquay ...	o	o.p.d.	52	48	-	0.2	0.0		
	Worthing ...	or	r	49	40	1	9	0.0		Bude ...	b	d	52	47	1	1	0.0		
	Littlehampton	omr	omr	51	48	2	8	0.0		Ilfracombe ...	o.g.	o.g.	52	44	-	6	0.0		
	Bournemouth	-	-	51	41	2	1	0.0		Weston-s-Mare ...									
	Tunbridge Wells	o.or	or.o	50	38	0.3	3	0.0											

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sun. Hours.			No.	Limits of Velocity.	
	7h-13h. <sup>5h.</sup>	13h-18h. <sup>5h.</sup>	18h-5h. <sup>6h.</sup>	1h-7h. <sup>6h.</sup>				Day. 7h-18h.	Night. 18h-7h.		Statute miles per hour.	Metres per second.			
†Houton Bay (Orkney)... Eskdalemuir ... ..	o.c.m.g.	o.m.g.o.p.	b.c.c.p.e.b.o.g.o.r.s.p.		46	35	32	8	10	0.0	b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog. g gloom. h hail. l lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	0	Less than 1	Less than 0.8	
†Stranraer ... ..							*	*	*	*	1	1-8	0.8-1.6		
†Lough Foyle ... ..							*	*	*	*	2	4-7	1.6-3.8		
Valencia (Cahirciveen) ...	o.d.r.	a.b.c.o.		o.c.o.	54	48	45	2	-	0.0	3	8-12	3.4-5.4		
†Anglesey (Llangefni) ...	r. q.	q.b.c.c.	q.c.o.	c.o.g.	52	41	*	*	*	*	4	13-18	5.5-7.9		
Falmouth ... ..	o. o.d.g.	o.r.o.d.g.	r.g.d.g.	c.o.g.	53	46	44	3	2	0.0	5	19-24	8.0-10.7		
†Calshot (Hants) ... ..	r.	r.	r.	c.o.	53	42	*	*	*	*	6	25-31	10.8-13.8		
†Capel (Folkestone) ... ..	o.r.	o.f.r.	q.p.	o.g.	50	32	*	*	*	*	7	32-38	13.9-17.1		
Aberdeen ... ..	o.r.m.g.	o.g.b.c.	b.g.b.		44	37	31	1	-	0.0	8	39-46	17.2-20.7		
†East Fortune ... ..	q.h.	q.r.	r.g.		49	37	*	*	*	*	9	47-54	20.8-24.4		
†Flamborough Head ... ..	q.r.	q.c.	q.b.b.c.	b.b.c.g.	50	39	*	*	*	*	10	55-63	24.5-28.4		
†Felixstowe ... ..	r.p.h.	h.	c.o.g.	q.	51	40	*	*	*	*	11	64-75	28.5-33.5		
†Cranwell (Lincs) ... ..	o.h.	h. u.	b.c.b.c.c.	b.b.c.c.	50	37	*	*	*	*	12	Above 75	33.6 or above		
†Bedford ... ..	o.m.r.g.	c.o.z.g.	z.g.	b.b.c.z.	51	38	*	*	*	*					
Benson ... ..	or	or	b.c.c.		51	41	33	4	-	*					
London (Kew Obsy.) ... ..	o.m.o.m.	o.m.o.m.	b.b.c.c.		52	41	34	6	Trace	0.0					

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain- fall.	Sun- shine to Sunset.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	Morning.	Afternoon.	Night.				mm.	Hours.	15 h. G.M.T.	9 h. G.M.T.					
	24 HOURS ENDED 9h G.M.T. .... 6 <sup>th</sup> ..								YESTERDAY.			TO-DAY.			
Greenwich (Royal Observatory)	o	o.c.	o.c.r	52	42	33	7	0.0	87	78	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.	Sunset.
City (Bunhill Row) ... ..	*	*	*	*	*	*	*	0.0	*	*		G.M.T.	G.M.T.	G.M.T.	
Westminster (St. James's Park)	*	*	*	52	41	33	6	0.0	86	79		Yarmouth... {	7.49	11.44	3.39
(Admiralty Arch)	omg.or	omg	odzq.bcg	53	43	*	6	0.0	92	81			7.51	11.45	3.39
Camden Sq. (British Rainfall)	o.or	or.o	*	52	40	34	7	*	94	84			7.51	11.51	3.51
Kensington Palace ... ..	or	o	*	52	41	34	7	*	84.93	81	Total ..... 1.4 ..... Joules.	Greenwich {	7.53	11.52	3.51
											Milliwatts.	Wick ... {	8.47	12.3	3.20
											Average Rate. 0.5		8.49	12.4	3.19
											Maximum Rate. 3	Valencia ... {	8.35	12.32	4.29
													8.37	13.33	4.29

## NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperatures in England and Ireland mostly reached or exceeded 50°, but were somewhat lower in Scotland. There was no sunshine in most districts. The largest amount reported was 1.2 hours at Castlebay and Malin Head. Rain fell in all districts. Eskdalemuir reported a rainfall of 18 m.m. and Stornoway 11 m.m.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 2199.B SUNDAY, 7<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 18H.																														
STATIONS.	Barom.	†	WIND.		Weather.	Temp.	Humidity.	Visibility.	Height	Low Cloud.		Upper Cloud.		Sea	Barom.	†	WIND.		Weather.	Temp.	Humidity.	Visibility.	Height	Low Cloud.		Upper Cloud.		Sea		
	at	Change	Direc.	Force		°F.	%	0-10.	Feet.	Form.	Amt.	Form.	Amt.		0-9.	at	Change	Direc.		Force	°F.	%	0-10.	Feet.	Form.	Amt.	Form.		Amt.	0-9.
	M.S.L.	in 3														m.b.	hours.													
12H. G.M.T. OF 6 <sup>TH</sup>															12H. G.M.T. OF 6 <sup>TH</sup>															
†Houton B. (Orkney)	994.0	-2	WSW	4	o.	37	87	5	-	Nb	10	-	-	*	992.3	-1	SW	3	o.	m.	36	92	5	-	Nb	10	-	-	*	
Eskdalemuir	994.0	-2	WSW	4	o.	37	87	5	-	Nb	10	-	-	*	992.3	-1	SW	3	o.	m.	36	92	5	-	Nb	10	-	-	*	
†Stranraer	994.0	-2	WSW	4	o.	37	87	5	-	Nb	10	-	-	*	992.3	-1	SW	3	o.	m.	36	92	5	-	Nb	10	-	-	*	
†Lough Foyle	994.0	-2	WSW	4	o.	37	87	5	-	Nb	10	-	-	*	992.3	-1	SW	3	o.	m.	36	92	5	-	Nb	10	-	-	*	
Valencia (Cahire'n)	1010.8	0	W	6	b.	45	65	8	2-3000	Cu	3	-	-	6	1009.6	0	W	7	b.	48	65	7	3-4000	Scu	3	-	-	6		
†Anglesey (Llangefni)	1000.9	-5	W	7	c	42	75	5	2-3000	Scu	8	-	-	6	998.9	-5	W	6	o	44	75	7	2-3000	Scu	10	-	-	6		
Falmouth	1009.2	-5	WNW	7	cq	50	75	5	-	Cu	7	-	-	*	1009.4	0	WNW	7	bc	44	65	6	-	Cu	4	-	-	*		
†Calshot (Hants)	1005.1	-3	WNW	5	o.	45	92	4	1-1500	Nb	10	-	-	3	1004.0	+2	NW	5	b.	41	98	5	-	-	-	-	-	3		
†Capel (Folkestone)	1001.4	-7	W	7	om.	45	87	3	2-1000	Scu	7	A.cu	3	4	999.8	0	WNW	2	b.	36	98	6	-	-	-	A.cu	4	3		
Aberdeen	988.2	-2	W	4	b.	41	75	8	-	Scu	2	-	-	2	989.6	+3	WNW	3	bc	39	92	7	-	Scu	6	-	-	2		
†East Fortune	990.1	-3	W	5	c	41	82	4	2-3000	Scu	4	Cu	4	*	990.5	+1	W	4	b	39	87	4	3-4000	Scu	2	A.cu	1	*		
†Flamboro' Head	993.5	-4	W	6	b.	41	75	7	3-4000	Cu	2	Ast	1	*	992.4	-2	W	6	o	37	82	7	-	Scu	10	Ast	2	*		
†Felixstowe	1000.6	-6	W	3	o	45	87	5	1-1500	Scu	10	-	-	4	998.6	-1	WNW	6	b.	40	98	4	2-3000	Scu	2	-	-	4		
†Cranwell (Lincs)	998.2	-5	W	3	c	39	98	7	1-1500	Nb	5	Ast	2	*	995.9	0	W	2	o	38	92	5	2-3000	Scu	6	-	-	*		
†Bedford	999.6	-5	W	4	c.	42	82	6	1-1500	Scu	8	-	-	*	999.5	0	W	2	c	39	82	5	5-7000	Scu	3	-	-	*		
Benson	1001.0	-8	W	4	o	43	87	7	-	-	-	-	-	*	1000.4	0	W	4	b.	37	82	8	-	-	-	-	-	*		
London (Kew Ob.)	1001.2	-7	WNW	4	o	44	82	5	2-3000	Scu	5	Ast	5	*	1000.6	+2	W	3	b.	41	75	5	1-1500	Fr. cu	1	-	-	*		
1H. G.M.T. OF 7 <sup>TH</sup>															7H. G.M.T. OF 7 <sup>TH</sup>															
†Houton B. (Orkney)	998.6	+9	N	4	c	36	87	7	-	Scu	7	-	-	*	1007.4	+14	NNW	4	b	34	75	7	-	Cu	1	-	-	-	*	
Eskdalemuir	998.6	+9	N	4	c	36	87	7	-	Scu	7	-	-	*	1007.4	+14	NNW	4	b	34	75	7	-	Cu	1	-	-	-	*	
†Stranraer	998.6	+9	N	4	c	36	87	7	-	Scu	7	-	-	*	1007.4	+14	NNW	4	b	34	75	7	-	Cu	1	-	-	-	*	
†Lough Foyle	998.6	+9	N	4	c	36	87	7	-	Scu	7	-	-	*	1007.4	+14	NNW	4	b	34	75	7	-	Cu	1	-	-	-	*	
Valencia (Cahire'n)	1018.8	+9	WNW	7	bcp	49	*	*	*	*	*	*	*	*	1021.5	+5	NW	5	b.	47	75	8	3-4000	Cu	4	-	-	0		
†Anglesey (Llangefni)	1005.0	-4	WNW	8	c	48	75	5	-	Fr. cu	8	-	-	*	1011.7	+14	NW	7	og	45	82	6	-	Cu	9	-	-	*		
Falmouth	1005.0	-4	WNW	8	c	48	75	5	-	Fr. cu	8	-	-	*	1005.5	+4	N	6	o	43	98	5	2-3000	Cu	6	A.cu	4	4		
†Calshot (Hants)	999.8	0	W	3	b	36	98	6	-	-	-	Ast	6	-	998.0	+1	NNW	7	o	35	98	5	2-1000	Scu	10	-	-	5		
†Capel (Folkestone)	999.8	0	W	3	b	36	98	6	-	-	-	Ast	6	-	998.0	+1	NNW	7	o	35	98	5	2-1000	Scu	10	-	-	5		
Aberdeen	997.7	+7	NNW	3	c	39	87	-	2-3000	Scu	3	Ast	5	*	1003.6	+4	WNW	5	b	37	87	7	-	Scu	2	-	-	2		
†East Fortune	993.1	+2	NNW	4	c	39	92	7	3-4000	Scu	6	Ast	2	*	1006.0	+10	NNW	3	b	36	87	6	-	-	-	-	-	*		
†Flamboro' Head	993.1	+2	NNW	4	c	39	92	7	3-4000	Scu	6	Ast	2	*	1006.0	+10	NNW	3	b	36	87	6	-	-	-	-	-	*		
†Felixstowe	996.3	-8	W	2	c	40	98	4	1-1500	Fr. cu	7	-	-	3	1000.7	+10	N	7	o	42	87	6	1-1500	Scu	7	A.cu	2	*		
†Cranwell (Lincs)	994.5	-2	W	3	o	40	92	6	2-3000	Scu	10	-	-	*	999.3	+6	NNW	5	o	41	98	4	2-3000	Nb	10	-	-	3		
†Bedford	995.6	+3	SW	1	2	40	87	5	3-4000	Scu	3	Ast	5	*	1002.9	+9	NNW	5	b.	37	98	7	1-1500	Scu	3	A.cu	2	*		
Benson	995.4	-3	W	4	o	43	87	7	-	-	-	-	-	*	1001.4	+4	NNW	3	o	41	82	4	1-1500	Scu	10	-	-	*		
London (Kew Ob.)	995.4	-3	W	4	o	43	87	7	-	-	-	-	-	*	1003.7	+9	NW	4	o	41	82	4	1-1500	Scu	10	-	-	*		
STATIONS CONTRIBUTING REPORTS AT 7H AND 12H.																														
STATIONS.	Barom.	Temp.	WIND.		Weather.	Barometer.		Temperature.		WIND.		Dirac. of Upper Cloud.	Weather.	Sea	Rainfall	TEMP.			WEATHER.			Sunshine								
	at	°F.	Direc.	Force		at	Change	Temp.	Change	Direc.	Force					Max.	Min.	Morning.	Afternoon.	Night.	Hours.									
	M.S.L.	in 3				m.b.	hours.	°F.	in 24														°F.	in 24						
12H. G.M.T. OF 6 <sup>TH</sup>															7H. G.M.T. OF 7 <sup>TH</sup>															
Lerwick	992.3	40	ENE	4	om	1001.7	+5	41	0	N	5	-	ogm	3	3	42	35	cm	rhp	rhp	*									
Stornoway	990.9	39	W	1	cp	1011.3	-	37	-3	N	4	-	b	4	6	43	36	cp	cp	cp	1.4									
Castlebay (Barra's)	991.2	44	NW	3	cp	1012.7	+4	42	+2	NW	5	-	b	4	4	45	38	cp	cp	cp	0.2									
Glasgow	992.0	39	SW	2	om	1009.3	+6	35	-2	NNW	2	N	b	4	4	40	34	c. omsh	c. omsh	c. be bx	0.2									
Malin Head	990.7	44	W	4	cgh	1012.9	+4	43	+1	NW	5	NW	cpq	5	13	46	39	cpq	cpq	cpq	0.2									
Blackod Point	998.8	46	WNW	6	cdq	1018.7	+8	45	+2	WNW	4	-	cp	4	5	48	35	bcpq	bcpq	cp	*									
Roche's Point	1007.6	45	W	4	b	1017.6	+7	45	-3	WNW	4	-	b	4	1	48	45	o.cpq	o.cpq	b	*									
Birr Castle	1004.3	44	W	5	c	1016.1	*	39	-2	W	1	-	c	4	2	46	38	c	cpq	cpq	3.2									
Donaghadee	994.3	41	W	4	ogm	1010.4	+9	42	+3	N	4	-	bcp	4	2	46	36	bomq	bcpq	cpq	*									
Liverpool (Bidston)	996.1	41	W	6	o	1006.7	+7	41	-1	NW	4	W	b	4	6	45	39	cpq	cpq	cp	2.3									
Holyhead	997.0	46	W	7	ogq	1008.3	+5	46	+1	N	7	N	cp	6	2	46	41	bcpq	cpq	cpq	1.4									
Pembroke (St. Ann's Head)	1003.9	46	WNW	8	ogq	1010.6	+7	45	-4	NW	5	-	og	6	6	46	43	cpq	bcpq	cpq	2.3									
Scilly (St. Mary's)	1011.4	46	WNW	8	cm	1015.0	+3	49	-1																					

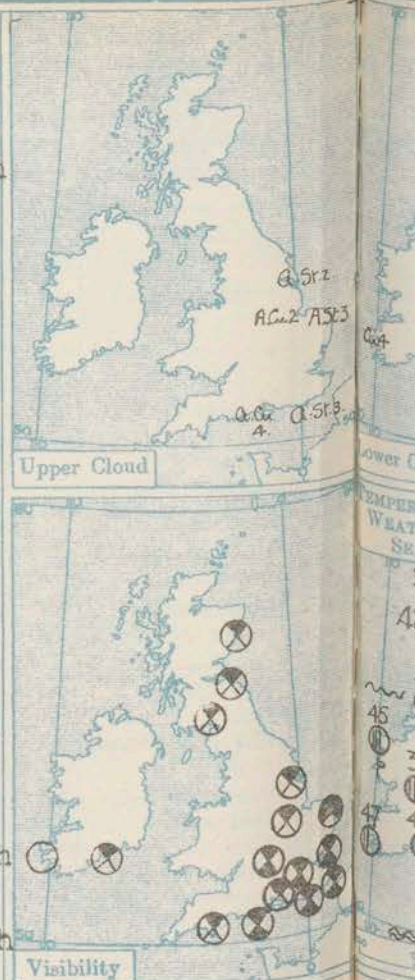
† Air Ministry Station.

\* Information



# SUMMARY OF CONDITIONS AT 7 A.M. Sunday, 7th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	NW 15-30	Mod.	Dull, local squalls and	Fair	r.rough
2. E. England	NW 10-20	"	Cloudy, local squalls & slight rain.	"	Slight
3. E. Midlands	NW 15-20	"	Fair to overcast, local squalls.	"	-
4. W. Midlands	NW 10-20	"	Fair to overcast.	"	-
5. S.W. England	NW 25-35	"	Variable cloud, squally	Good	Rough
6. South Wales	NW 15-20	"	Dull, squally.	Fair	"
7. North Wales	N-NW 20-30	"	Cloudy, squally.	"	"
8. N.W. England	NW. 10-20	"	Fair	"	Mod.
9. N. Midlands	NW 10-20	"	Fair	Good	-
10. N.E. England	NW 15-35	"	Fair to overcast.	"	Mod.
11. E. Scotland	NW 10-20	"	Fair or fine.	"	Smooth
12. S.W. Scotland	NNW 5-15	"	Fair or fine.	"	Mod.
13. Isle of Man	N-NW 15-20	"	Fair	"	"
14. N.&N.W.Scot-land	N-NW 10-15	"	Fair, some local squalls	Fair	"
15. Hebrides	N-NW 15-20	"	Fair.	Good	"
16. Orkneys and Shetlands	N: 20	"	Dull, some mist.	Variable	Slight
17. N.W. Ireland	NW 15-20	"	Cloudy, passing showers	Good	r.rough
18. N.E. Ireland	N-NW 10-20	"	Fair or cloudy, squally	"	Mod.
19. S.E. Ireland	NW-W 5-15	"	Fair or cloudy.	"	r.rough
20. S.W. Ireland	NW-W 15-20	"	Fair or fine.	V.good	Mod.



GENERAL INFERENCE from observations received up to 9 a.m.

An anticyclone off the S.W. of Ireland is spreading East,  
Fresh or strong N.W. or N. winds with colder weather are probable.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ☁ sky & clouded.    ☁☁ sky & clouded.  
 ☁☁ overcast sky.    ● rain falling.  
 \* snow.    ▲ hail.    ≡ fog.    ≡ mist.  
 T thunder.    R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough    High

Districts.	Forecasts for the 24 hours commencing 3 p.m. Sunday, 7th December, 1919.
1. S.E. England	Fresh winds between N. and N.W. Variable sky, local showers of rain or hail. Squally. Colder.
2. E. England	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	Fresh or strong winds between N. and N.W. perhaps backing later. Variable sky, some showers of rain or hail. Squally. Rather cold.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	Fresh or strong winds between N. and N.W. Variable sky, some showers of rain, hail or snow. Squally. Rather cold.
10. N.E. England	
11. E. Scotland	
12. S.W. Scotland	
13. Isle of Man	Same as 4-9.
14. N.&N.W.Scot-land	Fresh or strong winds between N. and N.W. Variable sky, some showers of rain, hail or snow. Squally. Rather cold.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Moderate or fresh winds between N. and N.W. probably backing later. Variable sky. Some showers of rain or hail. Colder.
19. S.E. Ireland	
20. S.W. Ireland	

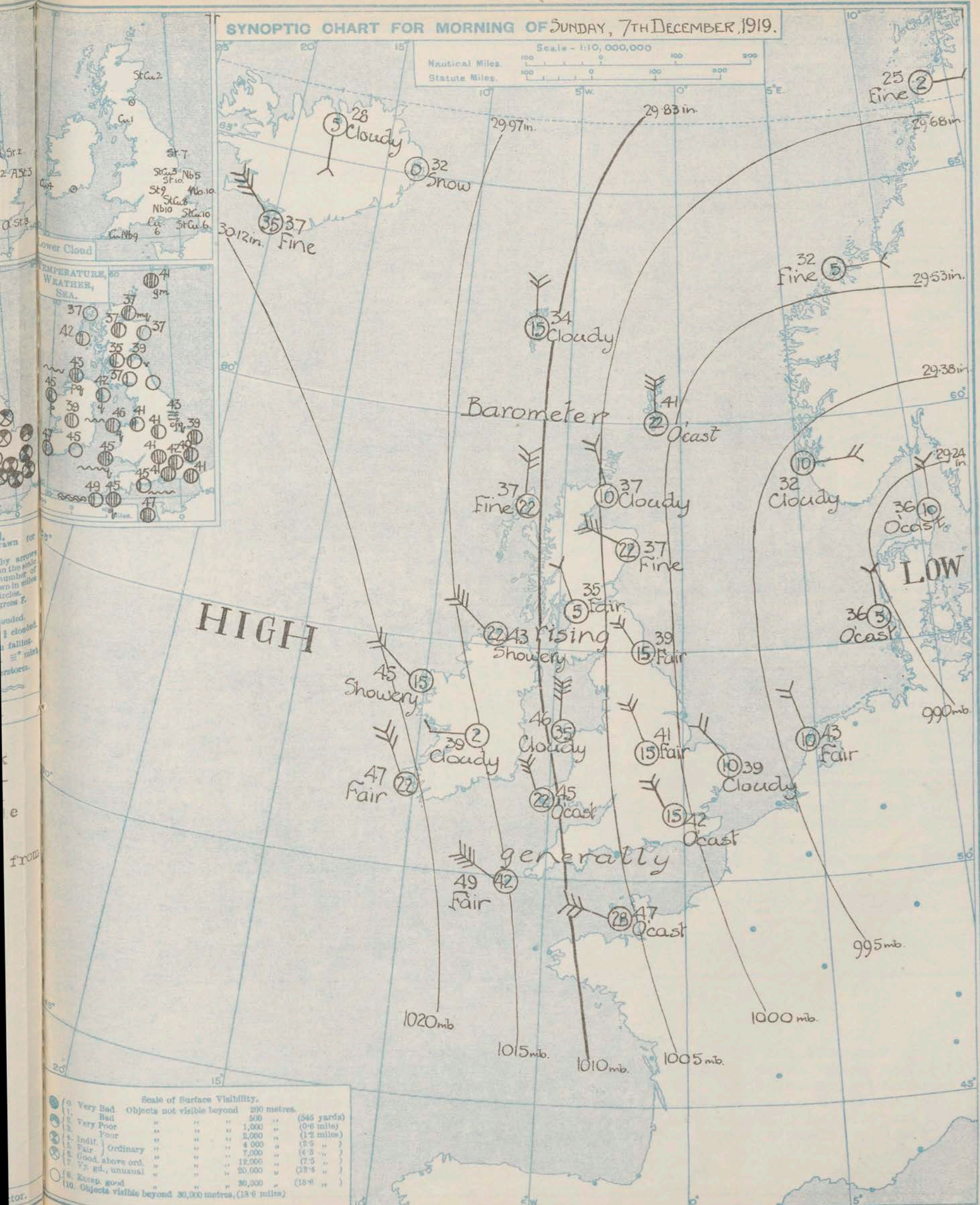
Further Outlook.

The outlook is rather uncertain, but it is probable that fresh depressions will come in from the Atlantic and cause a continuance of unsettled conditions.



# SYNOPTIC CHART FOR MORNING OF SUNDAY, 7TH DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles 100 0 100 200  
Statute Miles 100 0 100 200



HIGH

LOW

Barometer

generally

## Scale of Surface Visibility.

Symbol	Description	Distance in metres	Distance in yards
0	Very Bad	Objects not visible beyond 200 metres	(200 yards)
1	Bad	" " " 500 "	(545 yards)
2	Very Poor	" " " 1,000 "	(1,090 yards)
3	Poor	" " " 2,000 "	(2,180 yards)
4	Indist.	" " " 4,000 "	(4,370 yards)
5	Fair	" " " 7,000 "	(7,660 yards)
6	Good, above ord.	" " " 12,000 "	(13,120 yards)
7	Vy. gd., unusual	" " " 20,000 "	(21,870 yards)
8	Except. good	" " " 30,000 "	(32,810 yards)
9	Objects visible beyond 30,000 metres	(32,810 yards)	



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 341 B

Sunday  
7th December

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 6th																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-19h. 5th.	Day. 19h-17h. 6th.	Sunrise to Sunset 6th.	Forenoon.			Afternoon.	Max. °F.	Min. °F.	Night. 17h-19h. 5th.	Day. 19h-17h. 6th.	Sunrise to Sunset 6th.		
Scotland.	Oban ... ..	ch	cy	44	38	6	1	0.0	England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	b. bc	bcl	42	37	0.3	1	4.0		Blackpool ... ..									
	Montrose ... ..									Southport ... ..	a.c. bc	bc. ch. o	44	41	1	0.2		1.2	
	St. Andrews ... ..																		
England, N.E.	Harrogate ... ..	bc. b.	ch. c. bc	42	37	2	0.1	4.8	Midland	Buxton ... ..									
	Skegness ... ..									Leamington Spa ... ..	bc. c.	ch. c	43	39	3	1		0.9	
										Malvern ... ..									
										Ross-on-Wye ... ..	ch. ch. q.	bq.	46	40	1	0.2		2.7	
England, E.	Felixstowe ... ..	cg. q.	bc. q.	46	41	-	-	1.1	Wales	Rhyl ... ..									
	Walton-on-Naze ... ..									Colwyn Bay ... ..									
	Southend-on-Sea ... ..	or	or. bc.	46	37	-	3	1.0		Llandudno ... ..	c	c	48	41	0.2	-		1.0	
										Aberystwyth ... ..	to. o.	c. c. o	47	45	*	*		0.5	
England, S.E.	Margate ... ..	a.c. bc	ch. c.	48	36	0.1	0.3	0.9	England, S.W.	Weymouth ... ..									
	Ramsgate ... ..	o	o	48	38	2	-	1.0		Teignmouth ... ..									
	Folkestone ... ..	od	o	55	50	-	3	1.0		Torquay ... ..	ch	to. b. p	50	44	-	3		1.8	
	Hastings ... ..	a.c.	or. bc	51	40	1	2	0.8		Paignton ... ..	og	bcl. q.	50	43	-	2		1.6	
	Eastbourne ... ..	or. o.	or. bc. b.	49	40	0.3	2	0.6		Penzance ... ..									
	Brighton ... ..									Newquay ... ..									
	Worthing ... ..	or	bc. b.	48	39	-	1	0.0		Bude ... ..									
	Littlehampton ... ..	og. h.	b	52	39	1	2	0.7		Ilfracombe ... ..									
	Bournemouth ... ..	b	b	50	41	4	-	1.4		Weston-s-Mare ... ..									
	Tunbridge Wells ... ..	a.c. c.	or. bc.	47	37	0.3	1	0.2											

SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.			THE BEAUFORT SCALE OF WIND FORCE.		
STATIONS.		WEATHER.				Max. Temp. °F.		Min. Temp. °F.		Rainfall.		Sun. Hours.	No.	Limits of Velocity.	
		7h-18h.	18h-18h.	18h-18h.	18h-18h.	°F.	°F.	°F.	°F.	Day. 7h-18h.	Night. 18h-7h.			Statute miles per hour.	Metres per second.
†Houton Bay (Orkney)...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		0	Less than 1	Less than 0.3
†Eskdalemuir ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		1	1-3	0.3-1.5
†Stranraer ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		2	4-7	1.5-2.3
†Lough Foyle ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		3	8-12	3.4-5.4
Valencia (Cahirciveen) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		4	13-18	5.5-7.9
†Anglesey (Llangefni) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		5	19-24	8.0-10.7
†Falmouth ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		6	25-31	10.8-13.8
†Calshot (Hants) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		7	32-38	13.9-17.1
†Capel (Folkestone) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		8	39-46	17.2-20.7
Aberdeen ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		9	47-54	20.8-24.4
†East Fortune ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		10	55-63	24.5-28.4
†Flamboro' Head ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		11	64-75	28.5-33.5
†Felixstowe ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3		12	Above 75	33.6 or above
†Cranwell (Lincs) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3				
†Bedford ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3				
Benson ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3				
London (Kew Obs.) ...		of. c. or	c. o. or	or. m. o. c. b. c.	c. bc. b.	38	33	28	8	0.4	0.3				

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall.	Sun- shine to Sunset.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.							
	Morning.	Afternoon.	Night.				min.	Hours.	15 h. G.M.T.	9 h. G.M.T.									
	24 HOURS ENDED 9H G.M.T. .... 7 <sup>th</sup> ...							YESTERDAY.	TO-DAY.										
Greenwich (Royal Observatory)	a. b. c.	c	o p W	48	38	30	1	0.9	76	78	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.	Sunset.				
City (Bunhill Row)	*	*	*	*	*	*	*	1.4	*	*						G.M.T.	G.M.T.	G.M.T.	
Westminster (St. James's Park)	*	*	*	47	39	32	1	3.4	-	-						Yarmouth ...	7.51	11.45	3.39
Admiralty Arch	a m q	b e m q	o p q a b c q	49	40	*	0.3	0.0	78	86						Greenwich	7.52	11.45	3.38
Camden Sq. (British Rainfall)	b c	o p	*	47	38	33	0.2	0.0	81	78						Wick ...	7.54	11.52	3.50
Kensington Palace	o. c	o p. o	*	48	38	34	0.3	*	76	80	Total	212	Joules.	Valencia ...	8.49	12.4	3.19		
											Milliwatts.								
											Average Rate.	7.4							
											Maximum Rate.	16							





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21,200 B MONDAY, 8<sup>TH</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 15H.																											
STATIONS.	BAROM.	†	WIND.		WEATHER.	TEMP.	HUMIDITY.	VISIBILITY.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea.	BAROM.	†	WIND.		WEATHER.	TEMP.	HUMIDITY.	VISIBILITY.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea.			
	at M.S.L.	Change in 3 hours.	Dir.	Force 0-12.		°F.	%	0-10.	Feet.	Form.	Am't. 0-10.	Form.	0-9.	at M.S.L.	Change in 3 hours.	Dir.		Force 0-12.	°F.	%	0-10.	Feet.	Form.	Am't. 0-10.	Form.	0-10.	0-9.
	m.b.													m.b.													
13H. G.M.T. OF 7 <sup>TH</sup>													15H. G.M.T. OF 7 <sup>TH</sup>														
†Houton B. (Orkney)	1009.5	+1	NW	6	b	37	75	7	-	-	-	-	1011.0	+1	NNW	5	b	35	75	6	-	-	-	-	*		
†Eskdalemuir	1009.5	+1	NW	6	b	37	75	7	-	-	-	-	1011.0	+1	NNW	5	b	35	75	6	-	-	-	-	*		
†Stranraer	1009.5	+1	NW	6	b	37	75	7	-	-	-	-	1011.0	+1	NNW	5	b	35	75	6	-	-	-	-	*		
†Lough Foyle	1009.5	+1	NW	6	b	37	75	7	-	-	-	-	1011.0	+1	NNW	5	b	35	75	6	-	-	-	-	*		
†Valencia (Cahire'n)	1024.0	+2	NW	5	c	48	75	8	3-4000	Cu	7	-	1024.8	+2	NNW	5	c	46	75	8	2-3000	Cu	7	-	4		
†Anglesey (Llangefnol)	1013.1	+2	NNW	5	c	43	75	6	3-4000	St. Cu	7	-	1013.9	+1	NNW	4	c	42	75	-	3-4000	St. Cu	7	-	5		
†Palmouth	1017.4	+3	NNW	7	bcpq	47	65	7	-	Nb	4	-	1018.5	+2	NNW	6	cphq	42	75	7	-	Cu. Nb	7	-	3		
†Calshot (Hants)	1009.9	+3	N	5	bc	45	75	5	2-3000	St	4	-	1009.3	+3	WNW	3	b	39	87	5	-	-	-	-	4		
†Capel (Folkestone)	1005.1	+6	NNW	7	o	37	92	7	1½-2000	St. Cu	8	-	1007.9	+4	NNW	5	c	36	92	6	-	-	A. Cu	7	4		
1H. G.M.T. OF 8 <sup>TH</sup>													7H. G.M.T. OF 8 <sup>TH</sup>														
†Houton B. (Orkney)	1015.8	+4	N	5	b, x	34	75	8	-	-	-	-	1019.5	+3	N	6	b	34	75	8	-	Cu	1	-	*		
†Eskdalemuir	1015.8	+4	N	5	b, x	34	75	8	-	-	-	-	1019.5	+3	N	6	b	34	75	8	-	Cu	1	-	*		
†Stranraer	1015.8	+4	N	5	b, x	34	75	8	-	-	-	-	1019.5	+3	N	6	b	34	75	8	-	Cu	1	-	*		
†Lough Foyle	1015.8	+4	N	5	b, x	34	75	8	-	-	-	-	1019.5	+3	N	6	b	34	75	8	-	Cu	1	-	*		
†Valencia (Cahire'n)	1026.5	0	NW	6	bcp	42	*	*	*	*	*	*	1027.9	+2	N	3	bc	44	75	8	-	Cu	2	P. Ci	3		
†Anglesey (Llangefnol)	1018.3	0	NNW	5	cph	41	82	5	-	Cu. Nb	7	-	1021.0	+3	NNW	4	b	42	75	6	-	Cu. Nb	2	-	*		
†Palmouth	1011.2	0	N	4	b	38	92	4	-	-	-	-	1018.0	+2	N	4	b	37	92	4	-	-	-	-	3		
†Calshot (Hants)	1011.2	0	N	4	b	38	92	4	-	-	-	-	1018.0	+2	N	4	b	37	92	4	-	-	-	-	3		
†Capel (Folkestone)	1008.1	+1	NW	7	bc	34	98	5	2-3000	Cu	4	A. St	1010.6	+1	N	7	bc	34	98	1	1½-2000	St	5	-	5		
†Aberdeen	1015.8	+4	N	4	q	33	82	-	2-3000	St. Cu	-	-	1018.5	+3	NW	4	b	38	92	7	-	Cu. Nb	2	-	4		
†East Fortune	1015.8	+4	N	4	q	33	82	-	2-3000	St. Cu	-	-	1019.1	+4	N	4	b	36	87	-	-	-	-	-	*		
†Flamborough Head	1007.9	+1	N	3	bc	37	98	4	1-1500	F. Cu	4	-	1010.8	+4	N	7	bc	41	75	5	1-1500	St. Cu	6	-	*		
†Felixstowe	1007.9	+1	N	3	bc	37	98	4	1-1500	F. Cu	4	-	1010.8	+4	N	7	bc	41	75	5	1-1500	St. Cu	6	-	*		
†Cranwell (Lincs)	1011.2	+3	NNW	5	bc	34	98	6	2-3000	St	2	A. Cu	1014.6	+2	NNW	5	bc	34	98	6	1½-2000	St	2	A. St	2		
†Bedford	1010.6	+1	NW	3	3	35	82	3	-	-	-	-	1014.3	+2	NNW	4	q	35	82	7	-	-	-	-	*		
†Benson	1010.6	+1	NW	3	3	35	82	3	-	-	-	-	1015.2	+3	NW	4	bc	33	87	6	-	Cu	5	-	*		
†London	1010.6	+1	NW	3	3	35	82	3	-	-	-	-	1014.1	+3	N	2	2	36	75	6	2-3000	St. Cu	3	-	*		
STATIONS CONTRIBUTING REPORTS AT 7H AND 15H.																											
STATIONS.	BAROM.	TEMP.	WIND.		WEATHER.	BAROMETER.		TEMPERATURE.		WIND.		Dir. of Upper Cloud.	Weather.	Sea.	Rainfall mm.	TEMP.		WEATHER.			Sunshine Hours.						
	at M.S.L.	°F.	Dir.	Force 0-12.		at M.S.L.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.					Max. °F.	Min. °F.	Morning.	Afternoon.	Night.							
	m.b.					m.b.																					
15H. G.M.T. OF 7 <sup>TH</sup>													7H. G.M.T. OF 8 <sup>TH</sup>														
Lerwick	1010.6	41	N	6	cqm	1019.1	+5	40	-1	NNE	9	-	o	6	2	42	37	rqm	cqm	6qpm	*						
Stornoway	1016.5	38	N	4	bcp	1024.2	+3	36	-1	N	3	-	b	3	2	41	34	bchp	bcp	bcp. b	2.0						
Castlebay (Barrats)	1018.2	41	N	4	b	1025.4	+3	38	-4	N	2	-	b	2	0.2	43	37	bc	bc. b	b. op. b	1.8						
Glasgow	1013.3	37	NW	3	b	1021.5	+3	37	+2	NNW	3	-	b	2	-	39	34	bc br	bv	bvx. bv	5.5						
Malin Head	1015.8	42	NW	4	cqp	1022.8	+2	42	-1	N	4	N	c	4	3	46	40	cqp	cqp	cq	2.2						
Blacksod Point	1024.9	44	NW	3	bcp	1027.0	+3	42	-3	WNW	1	-	bc	2	3	46	39	bcp	bcp	bc. barn	*						
Roche's Point	1022.0	44	NW	6	b	1025.9	+1	39	-6	NW	4	-	b	3	0.1	48	38	b. bc	bcp. b	b	*						
Birr Castle	1020.5	37	W	2	bc	1025.4	*	30	-9	W	1	-	b	3	*	44	29	bcp	bcp	c. ox	4.1						
Donaghadee	1014.8	41	W	4	bcp	1022.2	+3	41	-1	NE	3	NE	bcq	4	1	45	40	bcp	bcp	bcq	*						
Liverpool (Bidston)	1011.9	41	NW	5	b	1018.9	+2	38	-3	NW	4	-	b	3	-	43	37	b	b	b	4.8						
Holyhead	1013.9	44	NNW	7	cq	1020.0	+2	42	-4	NNE	7	-	bq	5	1	46	41	cpr.	cq	cp. bc	4.2						
Pembroke (St. Ann's Head)	1016.8	45	NW	6	cq	1021.1	+3	42	-3	N	5	N	cq	4	1	45	42	c. cqp	cq	c. op. cq	5.2						
Scilly (St. Mary's)	1020.3	44	NW	6	c	1022.9	+2	44	-5	NNW	5	N	bc	6	1	49	39	bc	cpq	c. bcp	4.6						
Jersey (St. Aubin)	1014.3	43	N	4	cqp	1011.9	+1	43	-4	N	4	N	b	4	4	49	41	bcp	bqhp	cqp. b	3.5						
Portland Bill	1012.9	44	NW	6	b	1016.7	+6	40	-5	NNW	4	-	b	4	-	48	43	b. bc	bc. b	bc. c. b	*						
Dungeness	1007.5	36	NW	4	b	1010.3	*	36	-5	N	4	N	c	4	-	49	34	c	c. b	bc	*						
Wick	1011.1	39	NNW	3	bc	1019.5	+4	38	+1	NNW	3	-	bc	3	1	43	36	bcpm	bcpm	bcpq	*						
Nairn	1014.7	37	NNW	4	o	1021.6	*	37	0	NW	3	-	cq	3	2	38	35	bc. cg	pr. ca	bcq	0.0						
Leith	1010.6	39	NNW	4	b	1019.2	+1	38	-1	N	4	-	b	3	-	41	37	bv. b	b	3vq. b	*						
Tynemouth	1007.9	39	NW	3	c	1015.1	+3	39	0	NW	4	-	pq	4	9	41	35	bcq	bcp	bcpq	*						
Spurn Head	1005.3	38	NNW	6	cq	1011.4	+4	38	-5	NW	7	-	cqsp	6	4	43	33	bcz	cq	cqshp	*						
Yarmouth (Gorleston)	1003.4	39	N	5	c	1008.0	+4	36	-3	N	4	-	bcq	4	11	44	33	bcp	cq	bcpq	2.0						
Clacton-on-Sea	1006.7	37	WNW	4	b	1010.5	+3	36	-4	NW	5	NW	bc	3	1	41	35	cpcqp	c. bc. b	bcp. bc	2.3						
Nottingham	1004.4	39	NNW	3	c	1015.3	*	37	-4	NW	3	-	b	2	-	43	36	bc	bc	c. b	2.5						

Ministry Station.

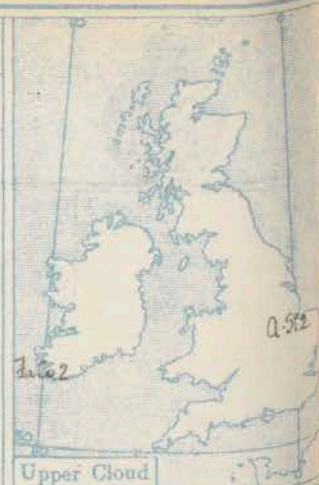
\* Infirmary. For these columns not usually received.

The barometric change is expressed in half millibars. § Longside + at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Monday, 8th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	NNW-N. 10-30	R.cold	Fine to cloudy local mist and frost.	Fair	Mod.
2. E. England	NW-N. 15-20	"	Variable cloud local rain, Var. sleet and squalls.	"	"
3. E. Midlands	NW. 10-15	"	Fine or fair.	Good	-
4. W. Midlands	NW-N. 10-15	"	Fine or fair.	"	-
5. S.W. England	NNW. 15-20	"	Fine or fair.	"	Mod.
6. South Wales	N. 15-20	"	Fair or cloudy, local squalls.	Fair	"
7. North Wales	N-NNE. 20-35	"	Fine; local squalls.	"	R.rough
8. N.W. England	NW-N. 15	"	Fine	"	Mod.
9. N. Midlands	NW. 10-15	"	Fine or fair.	-	-
10. N.E. England	NW-N. 15-35	Mod.	Fair or cloudy, squally local showers of rain & snow.	Fair	R.rough
11. E. Scotland	NW-N. 10-15	"	Fine or cloudy.	V.good	Slight
12. S.W. Scotland	NNW-N. 10-20	R.cold	Fine	"	Mod.
13. Isle of Man	NE. 25	"	Fine, squally.	Good	"
14. N. & N.W. Scot- land	NW-N. 10	"	Fine or fair.	Fair	Slight
15. Hebrides	N. 5-10	"	Fine.	"	"
16. Orkneys and Shetlands	N-NNE. 25-45	Mod.	Fair to dull, gale at Shetlands.	"	Rough
17. N.W. Ireland	W-NW. 2-10	"	Fair	"	Smooth
18. N.E. Ireland	N-NE. 19-15	"	Fair or cloudy, local squalls.	"	Mod.
19. S.E. Ireland	W-N. 2-15	Cold	Fine.	Good	"
20. S.W. Ireland	NW-N. 10-15	R.cold	Fine or fair.	V.good	Slight



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn at intervals of five 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 & clouded.  
 ☂ overcast sky. ☄ sky & clouded.  
 \* snow. ▲ hail. ≡ fog. ≡ rain.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

GENERAL INFERENCE from observations received up to 9 a.m.

Under the influence of a wedge of high pressure to the west of the British Isles the weather will be mainly fair or fine and rather cold.

Districts.	Forecasts for the 24 hours commencing 3 p.m. Monday, 8th December, 1919
1. S.E. England	Strong squally N'y. breeze, moderating gradually. Fair generally, but local sleet showers. Cold.
2. E. England	
3. E. Midlands	
4. W. Midlands	Fresh N. or NW. breezes, moderating. Mainly fine, some local sleet showers. Cold.
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	Same as for 1-3
9. N. Midlands	
10. N.E. England	
11. E. Scotland	Same as for 4-9
12. S.W. Scotland	
13. Isle of Man	
14. N. & N.W. Scot- land	Light NW breeze, backing to W. Fine at first, becoming less settled, cold then milder.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	Same as for 15
18. N.E. Ireland	Same as for 4-9
19. S.E. Ireland	
20. S.W. Ireland	Same as for 15

Further Outlook.

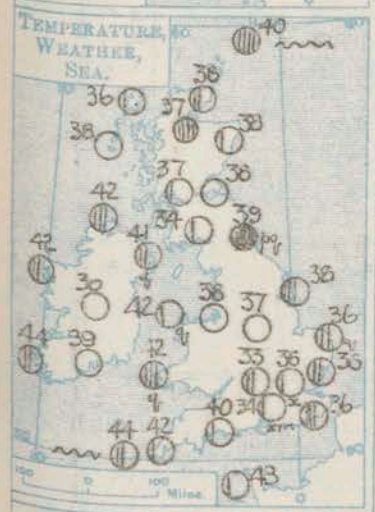
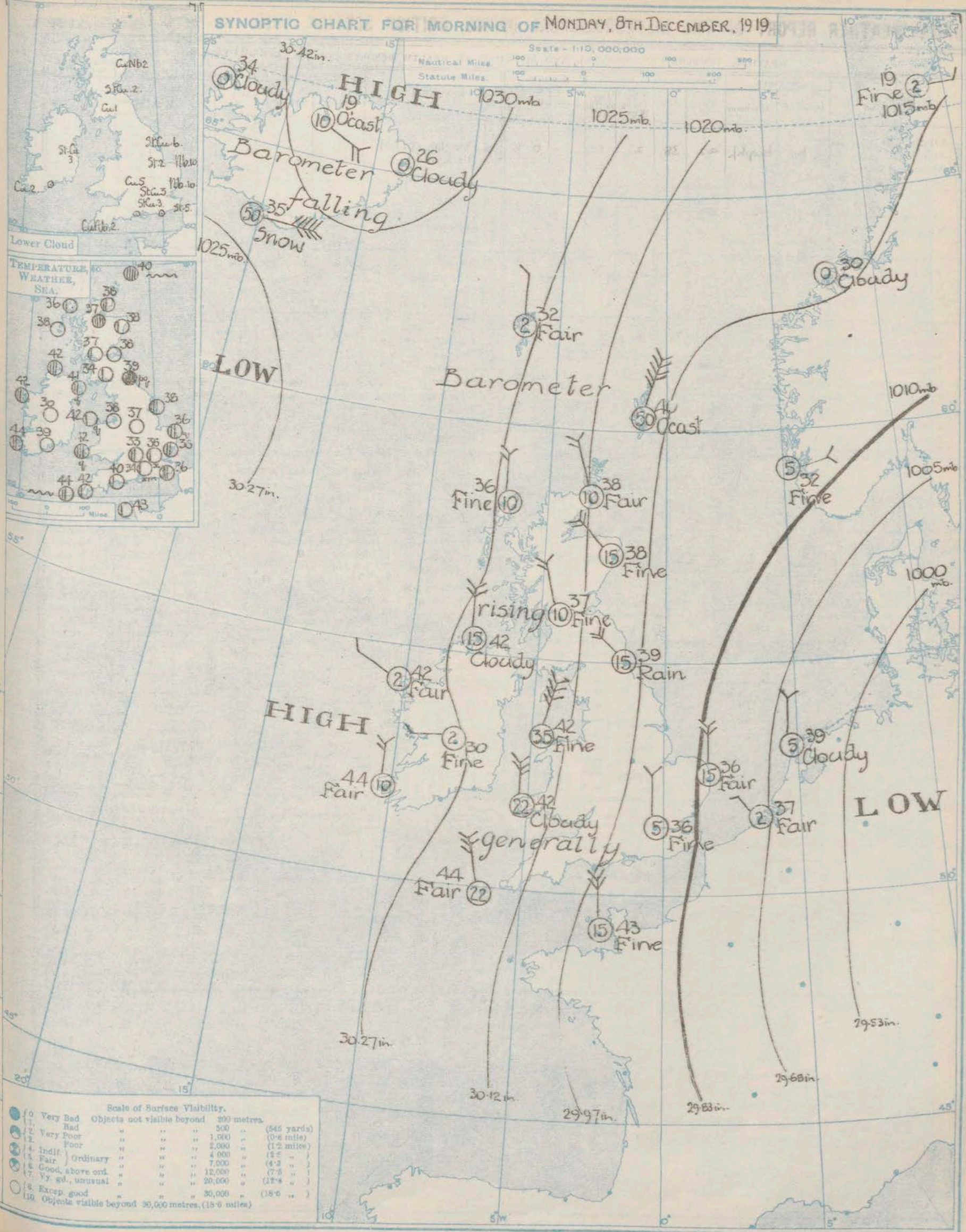
A depression to the south west of Iceland will before long cause the wind to back to W. or SW., the weather becoming mild and unsettled again.



# SYNOPTIC CHART FOR MORNING OF MONDAY, 8TH DECEMBER, 1919

Scale - 1:10,000,000

Nautical Miles  
Statute Miles



Scale of Surface Visibility.

Symbol	Very Bad	Bad	Poor	Indif.	Fair	Good, above ord.	Vy. gd., unusual	Excep. good
1	Objects not visible beyond 200 metres							
2	" "	500 "						
3	" "	1,000 "						
4	" "	2,000 "						
5	" "	4,000 "						
6	" "	7,000 "						
7	" "	12,000 "						
8	" "	20,000 "						
9	" "	30,000 "						
10	Objects visible beyond 30,000 metres, (15.6 miles)							



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. N. 342 B

MONDAY,  
8<sup>TH</sup> DECEMBER.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 7 <sup>TH</sup> DECEMBER																			
STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 12h-9h.	Day. 9h-12h.	Sunrise to Sunset.	Forenoon.			Afternoon.	Max. °F.	Min. °F.	Night. 12h-9h.	Day. 9h-12h.	Sunrise to Sunset.		
Scotland.	Oban ... ..								England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	c. bc.	bc. gh.	42	38	2	1	0.6		Blackpool ... ..								5.2	
	Montrose ... ..									Southport ... ..	bc. b.	b.	42	39	2	-			
	St. Andrews ... ..																		
England, N.E.	Harrogate ... ..	b	b	39	36	1	-	6.3	Midlands.	Buxton ... ..									
	Skegness ... ..									Leamington Spa ... ..	bc	bc	43	38	0.3	-		4.2	
										Malvern ... ..									
										Ross-on-Wye ... ..	c. b. bc. h.	bc. h. c. b.	45	37	2	0.3		3.7	
England, E.	Felixstowe ... ..								Wales.	Rhyl ... ..	b. bc	bc. c. bc	44	42	3	-		3.4	
	Walton-on-Naze ... ..									Colwyn Bay ... ..	-	-	44	41	3	-		4.7	
	Southend-on-Sea ... ..									Llandudno ... ..	c. b.	c.	46	41	6	-		2.6	
										Aberystwyth ... ..									
England, S.E.	Margate ... ..								England, S.W.	Weymouth ... ..									
	Ramsgate ... ..	b	b	41	35	2	2	0.4		Teignmouth ... ..									
	Folkestone ... ..									Torquay ... ..									
	Hastings ... ..	bc. b	bc	44	37	-	-	3.9		Paignton ... ..	bc. q.	bq	48	42	*	*		6.5	
	Eastbourne ... ..	c. c. bc	bc	44	33	-	-	4.5		Penzance ... ..	c. bc.	bc. c.	50	46	1	0.2		4.2	
	Brighton ... ..									Newquay ... ..	cv. bc.	bc. c.	47	44	2	-		3.3	
	Worthing ... ..	bc. b	b	44	38	1	-	4.8		Bude ... ..									
	Littlehampton ... ..	-	-	51	37	1	-	4.6		Ilfracombe ... ..									
	Bournemouth ... ..									Weston-s-Mare ... ..									
	Tunbridge Wells ... ..	o	o	42	36	-	-	0.0											

SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.			THE BEAUFORT SCALE OF WIND FORCE.		
STATIONS.	WEATHER				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sun. Hours.	No.	Limits of Velocity.			
	7h-13h.	13h-18h.	18h-7h.	1h-7h.				Day. 7h-13h.	Night. 13h-7h.			Statute miles per hour.	Metres per second.		
†Houton Bay (Ookney)...							*	*	*	*	0	Less than 1	Less than 0.3		
Eskdalemuir ...	b.	b	b. bc	bx. b	38	32	29	.	.	6.2	1	1-3	0.3-1.5		
†Stranraer ...							*	*	*	*	2	4-7	1.6-3.3		
†Lough Foyle ...							*	*	*	*	3	8-12	5.4-5.4		
Valencia (Cahiriveen) ...	bc. c.	bc. c.	ch. q. bc		48	40	37	1	1	3.9	4	13-18	5.5-7.9		
†Anglesey (Llangefni) ...	bc. c. q.	b. bc.					*	*	*	*	5	19-24	8.0-10.7		
Falmouth ...	ch. q. bc. h.	ch. q.	ch. q.	bc. h	48	40	35	1	2	4.3	6	25-31	10.8-13.8		
†Calshot (Hants) ...	bc. c.	b. bc	b. bc.	b	45	35	*	*	*	*	7	32-38	13.9-17.1		
†Capel (Folkestone) ...			bc. c. q.	g. q	45	34	*	*	*	*	8	39-46	17.2-20.7		
Aberdeen ...	bc. q.	ch. bc	bc. q.	b	41	36	32	5	3	2.4	9	47-54	20.8-24.4		
†East Fortune ...	v. q.		bc. c.	b	41	36	*	*	*	*	10	55-63	24.5-28.4		
†Flamborough Head ...	q. hrs.	h.		gh. rh.	44	35	*	*	*	*	11	64-75	28.5-33.5		
†Felixstowe ...	h. q.	b. bc. q.	b. bc. q.	h.	42	35	*	*	*	*	12	Above 75	33.6 or above		
†Cranwell (Lines) ...	b. bc. b.	bc. c.	b. bc. c.	bb. c.	40	32	*	*	*	*	Suffixes 0.1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.				
†Bedford ...	b. bc. 2	b. bc. 2	b. bz. 2	b. bc. 2	42	33	*	*	*	*					
Benson ...	b. bc	b.	b.	bc. x	43	30	?	-	-	*					
London (Kew Obsv.) ...	om. a. c. b.	b	b. bc		43	35	33	Trace	-	3.8					
											b blue sky (not more than a quarter covered).				
											bc sky partly cloudy (one half covered).				
											c generally cloudy (three quarters covered).				
											d drizzle, or fine rain.				
											e wet air without rain falling.				
											f fog. g gloom.				
											h hail. i lightning.				
											m mist.				
											o overcast sky.				
											p passing showers.				
											q squalls.				
											r rain.				
											rs sleet, i.e., rain and snow together.				
											s snow.				
											t thunder.				
											u ugly, threatening sky.				
											v unusual visibility.				
											w dew.				
											x hoar frost.				
											y dry air; humidity less than 60 per cent.				
											z dust haze; the turbid atmosphere of dry weather.				
											☄ Solar halo ☉				
											☃ Lunar halo ☾				
											☁ Solar corona ☼				
											☁ Lunar corona ☾				

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Mid. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	Humidity %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.				
	Morning	Afternoon	Night.						15 h. G. M. T.	9 h. G. M. T.		Stations.	Sunrise. G. M. T.	Noon. G. M. T.	Sunset. G. M. T.	
	24 HOURS ENDED 9h G. M. T. 8 <sup>PM</sup> ...								YESTERDAY.							TO-DAY.
Greenwich (Royal Observatory)	b. bc.	b. bc	b. bc. x.	42	35	28	-	2.6	58	79	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	8 <sup>TH</sup> AND 9 <sup>TH</sup> DECEMBER, 1919.	Stations.	Sunrise.	Noon.	Sunset.
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*						
Westminster (St. James's Park)	*	*	*	45	36	29	-	0.1	63	91	Total ..... 108 ..... Joules.	Yarmouth ...	7.52	11.45	3.38	
Admiralty Arch	om. q. bc.	bc. 2. b.	bm. bc.	45	36	*	-	2.4	73	83						Greenwich {
Camden Sq. (British Rainfall)	*	*	*	44	34	30	-	*	-	82	Wick ...	8.50	12.4	3.08		
Kensington Palace ...	bc	b. bc	*	43	34	31	-	*	75 (18)	80					Average Rate. 3.7	Valencia ...
											Maximum Rate. 18	8.38	12.33	4.28		
																8.39

## NOTES ON THE WEATHER OF YESTERDAY.

The minimum temperature nowhere reached 50°. There was a slight frost at Benson (maximum 30°) and at Cranwell the temperature fell to 32°. Rainfall amounted to 11 mm. at Yarmouth and 8 mm. at Aberdeen; but was nil at a few English and Scottish stations. Sunshine records were fairly good generally, over six hours at Eskdalemuir.



METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21201-B TUESDAY, 9<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H.																												
STATIONS.	BAROM. at M.S.L. m.b.	Change in 2 hours.	WIND.		WEATHER.	TEMP. °F.	Humidity. % 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea.	BAROM. at M.S.L. m.b.	Change in 2 hours.	WIND.		WEATHER.	TEMP. °F.	Humidity. % 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea.		
			Dir.	Force					Form.	Amt.	Form.	Amt.				Dir.	Force					Form.	Amt.	Form.	Amt.		Form.	Amt.
13H. G.M.T. 8 <sup>TH</sup>														19H. G.M.T. OF 8 <sup>TH</sup>														
†Houton B.(Orkney)	1021.6	0	N	4	6	37	75	7	-	Cu	1	-	-	*	1023.4	+2	N	2	6	32	75	7	-	-	-	-	*	
Esksdalemuir ...	1021.6	0	N	4	6	37	75	7	-	Cu	1	-	-	*	1023.4	+2	N	2	6	32	75	7	-	-	-	-	*	
†Stranraer ...	1021.6	0	N	4	6	37	75	7	-	Cu	1	-	-	*	1023.4	+2	N	2	6	32	75	7	-	-	-	-	*	
†Lough Foyle ...	1021.6	0	N	4	6	37	75	7	-	Cu	1	-	-	*	1023.4	+2	N	2	6	32	75	7	-	-	-	-	*	
Valencia (Cahire'n)	1027.5	-1	-	0	c	45	75	8	2-3000	Cu	1	Cs	7	3	1025.8	-1	SE	2	0	42	82	7	-	-	-	Ast	10	3
†Anglesey (Llangefni)	1022.6	-1	NNE	4	6c	42	65	8	3-4000	Nb	6	-	-	5	1024.0	+2	-	0	c	37	82	-	3-4000	Str	8	-	-	4
Falmouth ...	1023.0	+1	N	4	6c	46	65	6	-	CuNb	6	-	-	*	1024.1	+2	NNW	3	cps	39	82	7	-	CuNb	8	-	-	*
†Calshot (Hants) ...	1017.5	+2	NNE	4	6	41	87	4	-	-	-	-	-	3	1020.4	+1	N	6	6c	38	82	2	1 1/2-2000	Str	5	-	-	3
†Capel (Folkestone)	1012.6	+2	N	8	oq	38	82	6	1-1500	Str	9	-	-	6	1016.8	+4	N	7	6cq	35	92	4	1-1500	Cu	5	-	-	4
Aberdeen ...	1021.4	+1	NW	3	6c	40	82	8	-	CuNb	4	-	-	3	1022.8	+1	NW	3	6	34	98	7	-	CuNb	3	-	-	3
†East Fortune ...	1021.9	+1	NNW	4	6	40	82	7	1 1/2-2000	CuNb	1	-	-	*	1023.2	+2	WNW	2	6	35	92	-	2-3000	Str	3	-	-	*
†Flamboro' Head ...	1014.9	+1	NNE	7	6cq	37	87	7	1-1500	Nb	4	Ast	2	*	1017.9	+2	NNE	7	6cq	41	98	8	1 1/2-2000	Nb	3	Ast	1	*
†Felixstowe ...	1013.9	+1	N	4	6c	39	98	6	1 1/2-2000	Str	5	-	-	1	1016.0	+5	N	3	6c	35	98	4	4-5000	CuNb	4	-	-	2
†Cranwell (Lincs)	1017.1	+1	NW	4	c	39	82	7	4-5000	Str	5	Ast	2	*	1020.1	+2	NW	3	6c	35	65	10	2-3000	Str	6	-	-	*
†Bedford ...	1016.3	+1	N	4	6z	40	75	3	-	-	-	-	-	*	1019.4	+4	N	3	om	35	97	4	5-7000	Str	2	Ast	3	*
Benson ...	1017.4	+1	NW	4	6	37	75	4	-	-	-	-	-	*	1019.9	+3	NW	3	c	35	82	4	-	Str	8	-	-	*
London (Kew Obs.)	1016.6	0	NNW	3	6	40	75	5	2-3000	Cu	3	-	-	*	1019.5	+2	NW	2	c	37	75	5	2-3000	Str	4	Ast	3	*
1H. G.M.T. OF 9 <sup>TH</sup>														7H. G.M.T. OF 9 <sup>TH</sup>														
†Houton B.(Orkney)	1022.7	-2	-	0	0	26	7	-	-	-	Cs	10	*	1021.1	-2	-	0	0	26	98	7	-	-	-	Cst	10	*	
Esksdalemuir ...	1022.7	-2	-	0	0	26	7	-	-	-	Cs	10	*	1021.1	-2	-	0	0	26	98	7	-	-	-	Cst	10	*	
†Stranraer ...	1022.7	-2	-	0	0	26	7	-	-	-	Cs	10	*	1021.1	-2	-	0	0	26	98	7	-	-	-	Cst	10	*	
†Lough Foyle ...	1022.7	-2	-	0	0	26	7	-	-	-	Cs	10	*	1021.1	-2	-	0	0	26	98	7	-	-	-	Cst	10	*	
Valencia (Cahire'n)	1019.9	0	SE	2	0	43	*	*	*	*	*	*	4	1018.2	0	E	2	0	45	92	6	2-3000	Str	10	-	-	0	
†Anglesey (Llangefni)	1023.5	-2	NNW	2	0	36	87	4	-	Cu	3	Cs	5	*	1020.9	-2	-	0	0	43	92	7	4-5000	Str	10	-	-	4
Falmouth ...	1023.5	-2	NNW	2	0	36	87	4	-	Cu	3	Cs	5	*	1022.2	-1	NNW	1	0	38	92	5	-	Str	10	-	-	*
†Calshot (Hants) ...	1019.3	+4	NNW	6	0	33	98	3	1 1/2-1000	Str	9	-	-	*	1022.9	-1	N	2	0	32	98	4	1 1/2-2000	CuNb	8	Ast	2	3
†Capel (Folkestone)	1019.3	+4	NNW	6	0	33	98	3	1 1/2-1000	Str	9	-	-	*	1020.4	+1	NNW	4	CZ	31	98	3	2-3000	Str	6	Ast	1	?
Aberdeen ...	1022.0	-1	-	0	6	32	82	2	-	-	-	-	-	*	1019.9	-2	WNW	1	CZ	30	98	3	-	-	-	Ast	8	2
†East Fortune ...	1022.0	-1	-	0	6	32	82	2	-	-	-	-	-	*	1020.5	-2	-	0	6	30	82	?	-	-	-	Ast	2	*
†Flamboro' Head ...	1019.4	+1	NNW	4	6c	38	82	6	4-5000	Cu	4	-	-	*	1019.9	+2	N	3	6c	31	98	3	2-3000	Str	5	-	-	3
†Felixstowe ...	1019.6	+2	N	4	0	35	98	3	1 1/2-2000	Nb	10	-	-	2	1021.4	0	NNW	2	0	30	87	4	2-3000	Str	2	Ci	6	*
†Cranwell (Lincs)	1021.3	+1	NW	3	6	32	92	5	2-3000	Str	1	Ast	2	*	1021.7	+1	SW	1	6c	30	92	1	-	-	-	Ast	5	*
†Bedford ...	1021.1	0	NW	2	6f	32	92	0	-	-	-	-	-	*	1021.4	0	-	0	6c	28	98	4	-	-	-	-	-	*
Benson ...	1019.8	-	-	-	-	-	-	-	-	-	-	-	-	*	1021.4	0	-	0	6c	31	92	2	2-3000	Str	1	-	-	*
London ...	1019.8	-	-	-	-	-	-	-	-	-	-	-	-	*	1021.4	0	-	0	6c	31	92	2	2-3000	Str	1	-	-	*
(M.O. at 1h)																												
STATIONS CONTRIBUTING REPORTS AT 7H AND 19H.																												
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND.		WEATHER.	BAROMETER.		TEMPERATURE.		WIND.		Dir. of Upper Cloud.	Weather.	Sea.	Rainfall mm.	TEMP.		WEATHER.			Sunshine Hours.							
			at M.S.L. m.b.	Change in 3 hours.		Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.	Max. °F.	Min. °F.					Morning.	Afternoon.	Night.										
19H. G.M.T. OF 8 <sup>TH</sup>														7H. G.M.T. OF 9 <sup>TH</sup>														
Lerwick ...	1021.8	34	W	3	6cm	1018.8	-2	31	-9	-	0	-	om	0	2	40	30	rhsp	om	bcm	*							
Stornoway ...	1023.9	33	N	1	6	1017.4	-2	37	+1	S	1	-	0	1	-	38	32	6	6	b.o.	2.7							
Castlebay(BarraIs)	1024.1	39	-	0	0	1016.9	-3	43	+5	SE	4	-	0	4	-	43	37	6	6.0	0	3.1							
Glasgow ...	1024.1	33	NW	2	6	1020.7	-3	30	-7	SE	1	-	om	*	-	39	29	6m.6c.6	6z	bz.omx	4.3							
Malin Head ...	1023.1	40	N	1	c	1015.8	-2	37	-5	S	3	S	c	2	-	44	35	6c	c	c	0.0							
Blacksod Point	1024.1	43	S	1	6c	1014.7	-2	43	+1	SSW	3	-	c	2	2	44	36	6c	6c	omd.c.	*							
Roche's Point...	1026.5	38	NNW	1	6	1020.5	-4	43	+4	SW	4	-	Y	4	3	43	37	6.6c.0z	0z.6	od	*							
Birr Castle ...	1025.3	34	ESE	1	0	1017.6	*	37	+7	S	2	-	Y	*	1	38	29	c	c.0.	or	0.5							
Donaghadee ...	1023.9	36	WSW	2	6c	1020.2	!-4	34	-7	W	1	N	cm	2	-	44	33	6	6c	cm	*							
Liverpool(Bidston)	1023.1	38	NNW	3	6	1021.3	-1	35	-3	S	1	-	bm	1	-	41	34	6.6c	6	bmox	5.8							
Holyhead ...	1023.7	41	NE	4	Cg	1020.0	-1	38	-4	SE	3	-	og	2	0.1	44	36	6.6c.c	6c.c	bm ofd	5.7							
Pembroke (St. Ann's Head)	1024.2	39	N	1	6cv	1021.8	-1	39	-3	NE	1	-	ov	1	2	45	39	cq.6c	6cv	ov	4.3							
Scilly (St. Mary's)	1026.1	43	N	3	6c	1022.5	-1	40	-4	W	1	NW	c	3	1	46	40	6c.c	6c	ch	4.5							
Jersey (St. Aubin)	1020.6	43	NNW	3	6	1021.6	0	39	-4	NW	3	-	0	3	-	49	36	6	6	b.o.	6.0							
Portland Bill ...	1021.0	39	N	3	6c	1021.5	0	36	-4	N	3	-	0	3	4	43	34	6	6c	0	*							
Dunegness ...	1015.6	37	N	4	6	1019.4	?	30	-6	NNW	3	N	b	3	-	40	30	Cpq	c.6	b. bxc	*							
Wick ...	1022.7	31	W	2	6c	1018.3	-2	33	-5	N	1	-	om	2	-	46	28	6cm	cm.6cm	bc.cm	*							
Nairn ...	1023.4	30	-	0	6c	1018.8	*	28	-9	-	0	-	cq	1	-	38	27	c.6c	6c	bex	0.8							
Leith ...	1022.8	37	NW	2	6	1019.7	-1	32	-6	SW	1	-	bm	2	-	40	31	br.b	b. bc. b	bz. bxc. b	*							
Tynemouth ...	1020.6	38	NNW	4	6cmq	1020.7	0	34	-5	W	2	-	bm	3	7	41	32	6chsp	6cmq	bcm	*							
Spurn Head ...	1017.6	39	NNE	4	6cq	1019.9	0	36	-2	NW	3	-	cq	3	1	42	33	cq	cq	bc.c.	0.0							
Yarmouth (Tor- rington)	1014.5	39	N	3	6c	1017.3	+1	33	-3	N	3	-	bex	3	1	43	32	6czpl	6cp	bcp. bxc	4.0							
Clacton-on-Sea	1017.0	40	NW	4	c	1019.9	+2	32	-4	NW	3	-	bc	2	2	40	30	6c.cp	6cp	bc. bxc	2.7							
Nottingham ...	1020.4	38	NNW	3	6	1021.4	*	31	-6	SW	1	-	bmox	*	-	40	30	6m	6c.cm	bm	1.0							

+ Air Ministry Station.

\* Information for these columns not usually received.

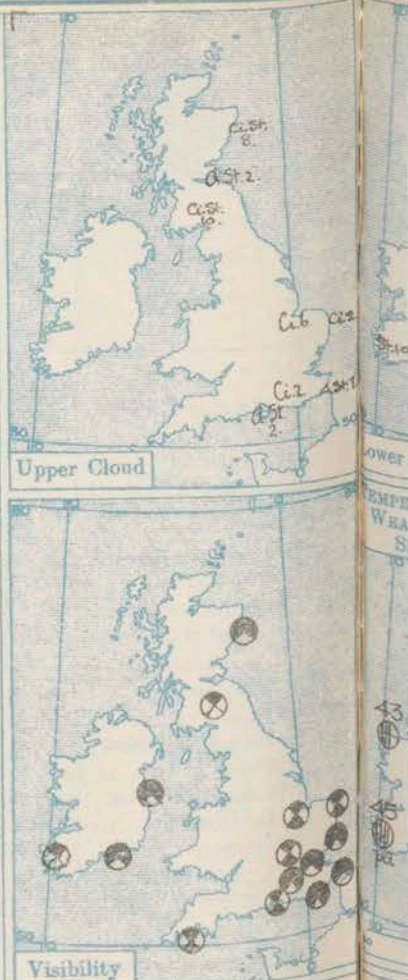
<sup>+</sup> The barometrical change is expressed in half millibars.

§ Longside † at 1H.



# SUMMARY OF CONDITIONS AT 7 A.M. Tuesday, 9th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	W-N. 5-15	Cold	Variable sky, local mist and frost.	Poor	Slight
2. E. England	W-N. 2-10	R.cold	Mainly fair, local frost.	"	"
3. E. Midlands	SW. 0-2	Cold	Fair or dull; frosty, local mist.	Indiff.	-
4. W. Midlands	SW. 0-2	"	Cloudy or dull.	-	-
5. S.W. England	W-N. 2-10	R.cold	Cloudy or dull.	Fair	Slight
6. South Wales	Var. 2	"	Dull.	V.good	Smooth
7. North Wales	SE-SW. 0-10	"	Dull, gloomy.	Fair	"
8. N.W. England	S. 2	"	Variable cloud, local mist.	Indiff.	"
9. N. Midlands	Var. 0-5	Cold	Variable cloud.	-	-
10. N.E. England	W-NW. 5-10	R.cold	Fair or cloudy, local mist.	Indiff.	Slight
11. E. Scotland	SW-W. 9-2	Cold	Fine or cloudy, local haze.	"	Smooth
12. S.W. Scotland	Var. 0-2	"	Dull, local mist and frost.	Var.	"
13. Isle of Man	Var. 0-2	R.cold	Fair to dull.	-	"
14. N. & N.W. Scotland	Var. 2	"	Dull, local mist.	Indiff.	"
15. Hebrides	SE-S. 2-15	Mod.	Dull.	Fair	Slight
16. Orkneys and Shetlands	Var. 0-2	R.cold	Dull, mist at Shetlands	Poor	Smooth
17. N.W. Ireland	SSW. 10	Mod.	Cloudy.	Fair	"
18. N.E. Ireland	S-W. 2-10	R.cold	Cloudy, local mist.	Indiff.	"
19. S.E. Ireland	S-SW. 2-5	"	Overcast with some rain and sleet.	Poor	"
20. S.W. Ireland	Mainly SW 5-15	Mod.	Dull, rainy.	Indiff.	Slight



GENERAL INFERENCE from observations received up to 9 a.m.

A depression to the north-west of Ireland will continue to advance. Milder and less settled weather will spread gradually to all districts.

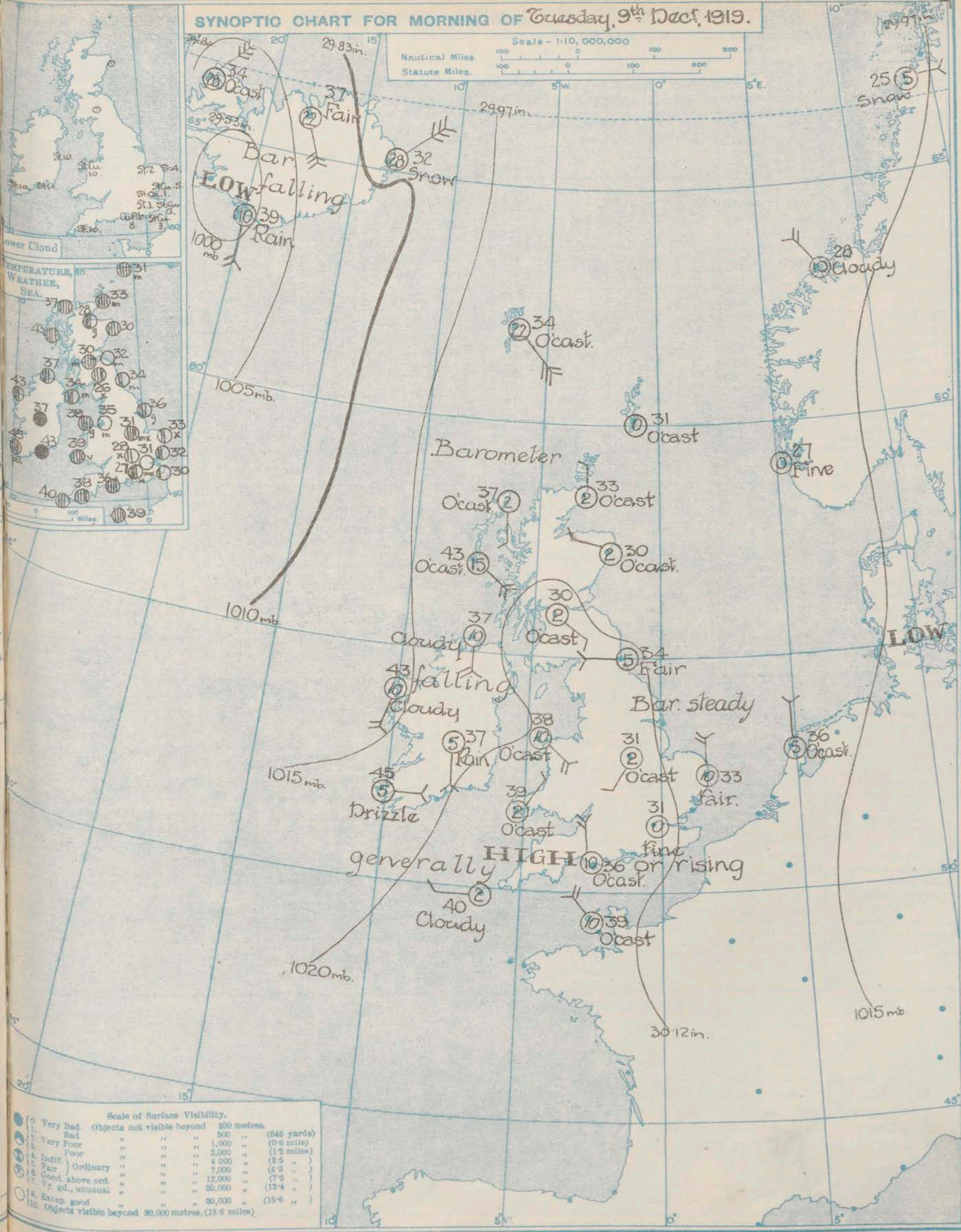
**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.  
**TEMPERATURE** is given in degrees F.  
**WEATHER SYMBOLS.**—  
 ○ clear sky. ○ sky & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. K thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

Districts.	Forecasts for the 24 hours commencing 3 p.m. Tuesday, 9th December, 1919	Further Outlook.
1. S.E. England	Light indefinite breezes, becoming S. or SW. Fair at first, then less settled, mist or fog. Milder by Wednesday.	Unsettled and mild.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Moderate S. or SW. breezes. Dull, some rain later. Mist or fog. Milder.	
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands	Same as for 1-4	
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Moderate S. or SW. breezes. Dull, some rain, misty. Milder.	
13. Isle of Man		
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands	Light S. or SE. breezes, freshening later. Dull, misty. Milder by Wednesday.	
17. N.W. Ireland		
18. N.E. Ireland	Same as for 12-15	
19. S.E. Ireland		
20. S.W. Ireland		



# SYNOPTIC CHART FOR MORNING OF Tuesday, 9th Decr, 1919.

Scale - 1:10,000,000  
 Nautical Miles. 100 0 100 200  
 Statute Miles. 100 0 100 200



## Scale of Surface Visibility.

0	Very Bad.	Objects not visible beyond 200 metres.
1	Bad	" " " 500 " (545 yards)
2	Very Poor	" " " 1,000 " (0.6 mile)
3	Poor	" " " 2,000 " (1.2 miles)
4	Indif.	" " " 4,000 " (2.5 " )
5	Fair	" " " 7,000 " (4.5 " )
6	Good, above ord.	" " " 12,000 " (7.5 " )
7	Vy. gd., unusual	" " " 20,000 " (12.4 " )
8	Excep. good	" " " 30,000 " (18.6 " )
10	Objects visible beyond 30,000 metres, (18.6 miles)	



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 343B

Tuesday,  
5<sup>th</sup> DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 8<sup>th</sup>

STATIONS.	WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-9h.	Day. 9h-17h.	h.	Sunrise to Sunset.		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-9h.	Day. 9h-17h.	h.	Sunrise to Sunset.
Scotland.									England, N.W.								
Oban ...	b		43	30	-	-		4.2	Douglas (I.O.M.)								
Banff ...	hpc	bc	41	36	3	0.3		1.2	Blackpool ...	c	bc	41	36	-	-		3.7
Montrose ...	*	*	41	33	-	-		5.3	Southport ...	b.bc.b	b	41	36	-	-		4.1
St. Andrews ...																	
England, N.E.									Midlands.								
Harrogate ...	b.bc	c.bc.b	38	34	-	-		5.1	Buxton ...	bc	bc	39	34	-	-		4.6
Skegness ...	ohr.bc	bc.chr	38	32	5	6		1.9	Leamington Spa...	b	b	39	36	-	-		6.2
Scarborough ...	*	*	44	36	1	6		2.3	Malvern ...	b	b	42	33	-	-		7.0
England, E.									Wales.								
Felixstowe ...	cqpr	cgr	40	35	2	0.3		4.2	Rhyl ...	b	b	43	40	-	-		6.1
Walton-on-Naze...									Colwyn Bay ...	*	*	43	39	-	-		3.5
Southend-on-Sea...	bc	bc.b	40	32	-	-		4.2	Llandudno ...	bc	bc	45	38	-	-		2.8
									Aberystwyth ...	*	*	42	40	-	-		5.5
England, S.E.									England, S.W.								
Margate ...	c	c	40	33	-	-		5.0	Weymouth ...	b	b	44	35	-	-		7.0
Ramsgate ...	o	o	40	35	-	-		0.0	Teignmouth ...								
Folkestone ...	o	o.bc.c.o	40	36	-	-		3.6	Torquay ...	b	b	45	37	1	-		7.2
Hastings ...	b.bc	bc	41	35	-	-		5.8	Paignton ...	bq	b	46	37	1	-		7.1
Eastbourne ...	*	*	40	35	-	-		5.0	Penzance ...	bc	bc.cpr	47	43	1	1		4.7
Brighton ...	b.bc.c	c	41	35	-	-		5.4	Newquay ...	bc.b	bc.cv	45	41	2	-		4.0
Worthing ...	b.	b.bc	40	34	-	-		5.5	Bude ...	b	b	45	40	2	-		6.0
Littlehampton ...	*	*	42	35	-	-		6.0	Ilfracombe ...	bc.b	b	44	43	-	-		5.9
Bournemouth ...	*	*	41	35	1	-		7.1	Weston-s-Mare ...	b	bc.b	43	36	-	-		6.5
Tunbridge Wells ...	o	c.o	40	33	-	-		0.1									

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
	7h-13h.	13h-18h.	18h-24h.	24h-7h.				Day. 7h-13h.	Night. 13h-18h.	
†Houton Bay (Orkney)...	b.bz	bz.b	b.o.o	bc	37	23	20	*	*	6.0
†Eskdalemuir ...	b.bz	bz.b	b.o.o	bc	37	23	20	*	*	3.4
†Stranraer ...								*	*	*
†Lough Foyle ...								*	*	*
Valencia (Cahirciveen) ...	bc.c	c.o	bc.c	bc	48	40	39	-	2	1.1
†Anglesey (Llangefni) ...	b.bc	bc.c	bc.c	o.r.	43	30	*	*	*	*
Falmouth ...	b.bch	bc.cpr	bc.c	bc.c	46	35	28	1	Trace	4.9
†Calshot (Hants) ...	b	b.bc	c.o	c.o	42	31	*	*	*	*
†Capel (Folkestone)...	cp	c.op	bc.cq	c.o.z	39	31	*	*	*	*
Aberdeen ...	b.cpr	b.cpr	b.bz.x	b.bz.x	40	30	25	0.1	-	4.3
†East Fortune ...	b.bc	b.bcr	b.bz	b.bz	40	30	*	*	*	*
†Flamboro' Head ...	prhq	bc.cprh	bc.cq	bc.cq			*	*	*	*
†Felixstowe ...	q	prh	b.bz	b.bz	42	30	*	*	*	*
†Cranwell (Lines) ...	b.bc.c	c.op	bc.c	b.bz	38	29	*	*	*	*
†Bedford ...	b.bcr	bc.cz	b.bz	b.bz	40	29	*	*	*	*
Benson ...	bc.b	bc.b	bc.b	bc.b	38	25	18	-	-	*
London (Kew Obs.) ...	b.bz	b.bz.c	bc.bz	bc.bz	40	31	21	-	-	3.4

## BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog.  
g gloom.  
h hail.  
i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 1=moderate, 2=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ☃ Lunar halo ☾  
Glazed frost ☑ Solar corona ☼  
Glazed roads ☐ Lunar corona ☾

## LONDON OBSERVATIONS.

	Nothing	Admiral	Admiral	Admiral	Admiral	Admiral	Admiral	Admiral	Admiral	Admiral
	24 HOURS ENDED 3h G.M.T. 9 <sup>th</sup> ...							YESTERDAY.		TO-DAY
Greenwich (Royal Observatory)	c. o.	o. c.	c. bc. x. f.	40	31	21	-	0.3	76	83
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	42	32	27	-	0.0	70	85
Admiralty Arch	bc. bc. q.	bc. b.	bc. c. o. m.	43	34	*	-	0.0	78	90
Camden Sq. (British Rainfall)	b. bc.	bc. o.	*	41	30	26	-	*	76	92
Kensington Palace ...	c.	o. c.	*	41	30	25	-	*	81 (18h)	86

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	YESTERDAY.		TO-DAY.	
	15 h. G.M.T.	9 h. G.M.T.	15 h. G.M.T.	9 h. G.M.T.
Total	136	Joules.		
Average Rate.	4.8	Milliwatts.		
Maximum Rate.	16			

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

9 <sup>th</sup> AND 10 <sup>th</sup> DECEMBER, 1919.			
Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth...	7.53	11.45	3.38
	7.54	11.46	3.37
Greenwich	7.55	11.52	3.50
	7.56	11.53	3.50
Wick ...	8.52	12.4	3.17
	8.53	12.5	3.17
Valencia ...	8.39	12.33	4.28
	8.40	12.34	4.28

## NOTES ON THE WEATHER OF YESTERDAY.

Frost occurred at many inland stations both in Great Britain and Ireland. The minimum was as low as 23° at Eskdalemuir and 25° at Benson. Sunshine records were good, as much as 7 hours being registered at many stations in the south of England. Some rain fell on the east coast and also in Ireland, the largest total being 7 mm. at Tynemouth.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 21,202 B WEDNESDAY, 10<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 3H, 7H, 13H AND 18H.																												
STATIONS.	BAROM.	Change	WIND.	Weather	TEMP.	HUMIDITY.	Height	Low Cloud.	Upper Cloud.	Sea.	BAROM.	Change	WIND.	Weather	TEMP.	HUMIDITY.	Height	Low Cloud.	Upper Cloud.	Sea.	BAROM.	Change	WIND.	Weather				
	at M.S.L. m.b.	in 3 hours.	Dir.		Force 0-12.	°F.	% 0-100.	Feet.	Form.	Amt. 0-10.	0-9.	at M.S.L. m.b.	in 3 hours.		Dir.	Force 0-12.	°F.	% 0-100.	Feet.	Form.	Amt. 0-10.	0-9.	at M.S.L. m.b.		in 3 hours.	Dir.	Force 0-12.	
13H. G.M.T. OF 9 <sup>TH</sup>												18H. G.M.T. OF 9 <sup>TH</sup>																
†Houton B. (Orkney)	1019.9	-1	-	0	02	30	92	6	2-3000	SR	10	-	-	-	1017.3	-3	-	0	05m	31	87	5	-	Nb	10	-	-	-
†Eckdalemuir	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Stranraer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Lough Foyle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Valencia (Cahire'n)	1016.2	-3	-	0	c	47	92	7	15-2000	Cu	3	Cu	4	2	1013.4	-4	ENE	1	b	43	98	7	2-3000	SR	2	-	-	2
†Anglesey (Llangefni)	1019.2	-2	S	2	0	40	87	7	5-7000	SR	10	-	-	-	1017.1	-2	S	3	0	38	92	-	2-3000	SR	10	-	-	4
†Palmouth	1019.7	-4	SSW	1	0	45	65	8	-	Cu	Nb	9	-	-	1017.7	-2	S	3	6c	44	75	4	-	Cu	6	-	-	...
†Calshot (Hants)	1022.0	0	-	0	CZ	38	82	1	1-1500	SR	5	A.Cu	3	1	1021.0	0	-	0	c	33	98	2	15-2000	SR	7	-	-	1
†Capel (Folkestone)	1020.2	-1	NNW	2	C	36	82	3	2-3000	Cu	2	Cu	6	3	1020.9	-1	NNW	2	b	33	87	4	-	-	-	-	-	0
1H. G.M.T. OF 10 <sup>TH</sup>																												
†Houton B. (Orkney)	1012.3	-5	S	3	05	32	98	4	-	Nb	10	-	-	-	1005.5	-6	SSE	5	odm	33	92	3	-	St	10	-	-	...
†Eckdalemuir	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Stranraer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Lough Foyle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Valencia (Cahire'n)	1007.3	-5	SSE	3	bc	75	6	...	...	...	...	...	...	...	1006.6	-8	S	6	on	50	98	4	15-1000	St	10	-	-	0
†Anglesey (Llangefni)	1013.9	-4	S	4	od	45	92	1	-	Nb	10	-	-	-	1008.6	-5	S	1	ox	47	92	5	-	St	10	-	-	...
†Palmouth	1017.9	-2	SE	1	0	39	92	3	2-3000	SR	7	Cu	3	4	?	-3	SSW	4	bc	40	82	3	15-2000	St	5	Cu	3	1
†Calshot (Hants)	1020.6	0	N	1	b	31	87	5	-	-	-	-	-	-	1019.5	-1	SSE	4	0	37	75	6	2-3000	St	7	A-St	2	4
†Aberdeen	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†East Fortune	1011.3	-3	S	2	or	36	92	-	2-3000	Nb	10	-	-	-	1004.7	-6	S	4	r	39	92	3	-	Nb	10	-	-	2
†Flamborough Hd.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†Felixstowe	1019.6	-1	NW	1	cf	24	98	0	-	-	-	-	-	-	1016.3	-2	SSE	2	bc	34	98	3	15-2000	St	2	A-St	3	2
†Cranwell (Lincs)	1017.9	-2	SSE	2	C	31	92	3	15-2000	SR	3	A.Cu	5	...	1013.0	-2	SSE	3	0	30	92	8	15-2000	St	7	A-St	3	...
†Bedford	1018.1	-2	S	1	C	30	92	-	-	-	-	A-St	7	...	1013.2	-4	S	1	f	31	82	1	-	-	-	-	7	...
†Benson	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
†London (Kew Obs.)	1017.8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																												
STATIONS.	BAROM.	TEMP.	WIND.	Weather	BAROMETER.	TEMPERATURE.	WIND.	Dir.	Force	Upper Cloud.	Weather.	Sea.	Rainfall.	TEMP.			WEATHER.			Sunshine.								
	at M.S.L. m.b.	°F.	Dir.		Force 0-12.	at M.S.L. m.b.	Change in 3 hours.							Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.	Max. °F.	Min. °F.		Morning.	Afternoon.	Night.	Hours.				
18H. G.M.T. OF 9 <sup>TH</sup>												7H. G.M.T. OF 10 <sup>TH</sup>										24 HOURS ENDED 7H. 10 <sup>TH</sup>						
Lerwick	1014.8	32	-	0	cm	1004.4	-7	40	+9	S	5	-	omd	3	1	41	31	cm	cm	omp	...							
Stornoway	1010.7	41	SSW	4	0	994.6	-7	45	+8	S	3	-	or	4	5	45	37	0	0	or	0.0							
Castlebay (Barra)	1010.5	42	SE	4	or	994.1	-8	45	+2	SSE	5	-	or	6	3	46	41	0	or	or	0.0							
Glasgow	1015.4	34	E	1	0	1003.0	-6	39	+9	SSE	5	-	og	...	0.3	33	28	om	cm	om	0.0							
Malin Head	1009.7	38	SSW	2	om	993.2	-1	43	+6	SSW	4	-	omr	3	1	45	37	c	om	or	0.0							
Blacksod Point	1016.3	45	-	0	cd	993.5	-5	46	+3	S	5	-	ogd	5	7	48	40	cd	c	ogd	...							
Roche's Point	1014.0	47	S	2	0	1001.5	-5	47	+4	SSW	4	-	r	4	7	48	42	df	fd	df	...							
Birr Castle	1013.1	42	S	1	0	998.7	...	44	+7	S	3	-	r	...	3	44	37	odr	od	odr	0.0							
Donaghadee	1013.5	41	SW	1	omd	1001.5	-6	46	+12	SW	4	-	omd	3	2	46	33	cm	omd	omd	...							
Liverpool (Bidston)	1017.5	35	SSE	2	0	1007.6	-4	36	+1	SE	4	-	0	3	-	37	34	bc	om	c	0.0							
Holyhead	1015.3	34	S	5	opdm	1002.8	-7	44	+6	S	7	-	ogd	6	1	44	37	og	opdm	opdm	0.0							
Pembroke (St. Ann's Head)	1016.9	44	S	3	ov	1006.0	-4	46	+9	S	6	-	orm	5	1	46	41	ov	ov	ov	0.0							
Scilly (St. Mary's)	1017.2	46	S	4	omd	1008.5	-5	49	+9	S	4	-	0	5	1	49	46	c	op	omd	0.0							
Jersey (St. Aubin)	1019.8	41	E	2	C	1015.4	-1	41	+2	SSE	5	-	0	4	-	40	38	0	bc	c	2.3							
Portland Bill	1019.7	42	SE	1	0	1011.8	-4	44	+8	S	5	-	bc	5	-	45	35	bc	bc	bc	...							
Dungeness	1020.0	34	N	2	bm	1016.5	...	40	+10	SSW	3	-	sw	3	-	40	26	bc	c	bm	...							
Wick	1012.8	37	SSW	3	bc	1000.8	-3	39	+6	SSW	4	-	omd	3	1	40	29	bc	bc	bc	...							
Nairn	1013.2	32	-	0	C	999.8	...	40	+12	-	0	-	cu	1	0.1	40	25	bc	bc	bc	1.7							
Leith	1015.4	30	SE	1	m	1003.4	-4	39	+7	SE	2	-	0	2	1	40	31	bm	bm	m	...							
Tynemouth	1018.0	34	W	2	b	1008.2	-4	36	+2	SW	3	-	om	3	-	37	32	bm	f	of	...							
Spurn Head	1019.1	36	NW	2	bm	1012.4	-4	35	-1	S	4	-	ogm	4	-	37	32	bm	ogm	om	...							
Yarmouth (Gorleston)	1019.2	34	NW	1	b	1017.3	-2	34	+1	SW	3	-	bc	3	1	42	26	bc	bc	bc	4.1							
Clacton-on-Sea	1019.9	34	NW	2	m	1017.1	-3	35	+3	SE	2	-	bm	1	-	39	28	bc	bc	bc	2.9							
Nottingham	1019.6	29	WSW	1	bm	1012.4	...	35	+4	S	3	-	ox	...	-	36	28	0	cm	cm	0.0							

† Air Ministry Station. \* Information for these columns not usually received. The barometric change is expressed in half millibars. † Logarithm of 10.



# SUMMARY OF CONDITIONS AT 7 A.M. Wednesday, 10th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	SE-S. 5-15	Cold	Variable sky, inland & mist or fog.	Var.	Slight
2. E. England	SE-SW. 2-10	"	Variable sky, local mist.	"	Smooth
3. E. Midlands	SE-S. 10-15	R. cold	Fair to dull.	Poor	-
4. W. Midlands	SE-S. 10-20	"	" " "	Ord.	-
5. S.W. England	S. 10-20	Moderate	" " "	Fair	R. rough
6. South Wales	S. 20	"	Dull, local rain and mist.	Poor	"
7. North Wales	S. 25-35	"	Dull, squally.	Fair	Rough
8. N.W. England	SE-S. 10-20	R. cold	Dull, local mist.	Poor	Slight
9. N. Midlands	S. 5-15	"	Dull.	Fair	-
10. N.E. England	S-SW. 10-20	"	Cloudy or dull, local mist.	Ord.	Slight
11. E. Scotland	SE-S. 5-15	Moderate	Cloudy or dull, local rain.	Poor	Smooth
12. S.W. Scotland	SE-S. 10-20	R. cold	Dull, local drizzle and mist.	"	Slight
13. Isle of Man	S-SW. 15-20	Moderate	Dull, local drizzle.	"	"
14. N. & N.W. Scotland	Sly. 10-20	"	Dull, mist and drizzle.	"	Mod.
15. Hebrides	S. 15-25	R. mild	Dull, rainy.	Ord.	R. rough
16. Orkneys and Shetlands	S. 10-20	Moderate	Dull, mist and drizzle	Poor	Slight
17. N.W. Ireland	S. 15-20	"	Dull, drizzling	"	R. rough
18. N.E. Ireland	S-SW. 15	R. mild	Dull, mist and rain.	"	Slight
19. S.E. Ireland	S-SW. 10-20	"	Dull, rainy.	"	R. rough
20. S.W. Ireland	S-SW. 15-25	"	" "	Ord.	Mod.

GENERAL INFERENCE from observations received up to 9 a.m.

A deep depression off north-west Ireland is spreading east.

Increasing SW. winds with dull to rainy and mild weather may be expected in all districts.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ○ sky & clouded. ○ sky & clouded.  
 ○ overcast sky. ● rain falling.  
 \* snow. ▲ hail. = fog. = mist.  
 T thunder. F thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

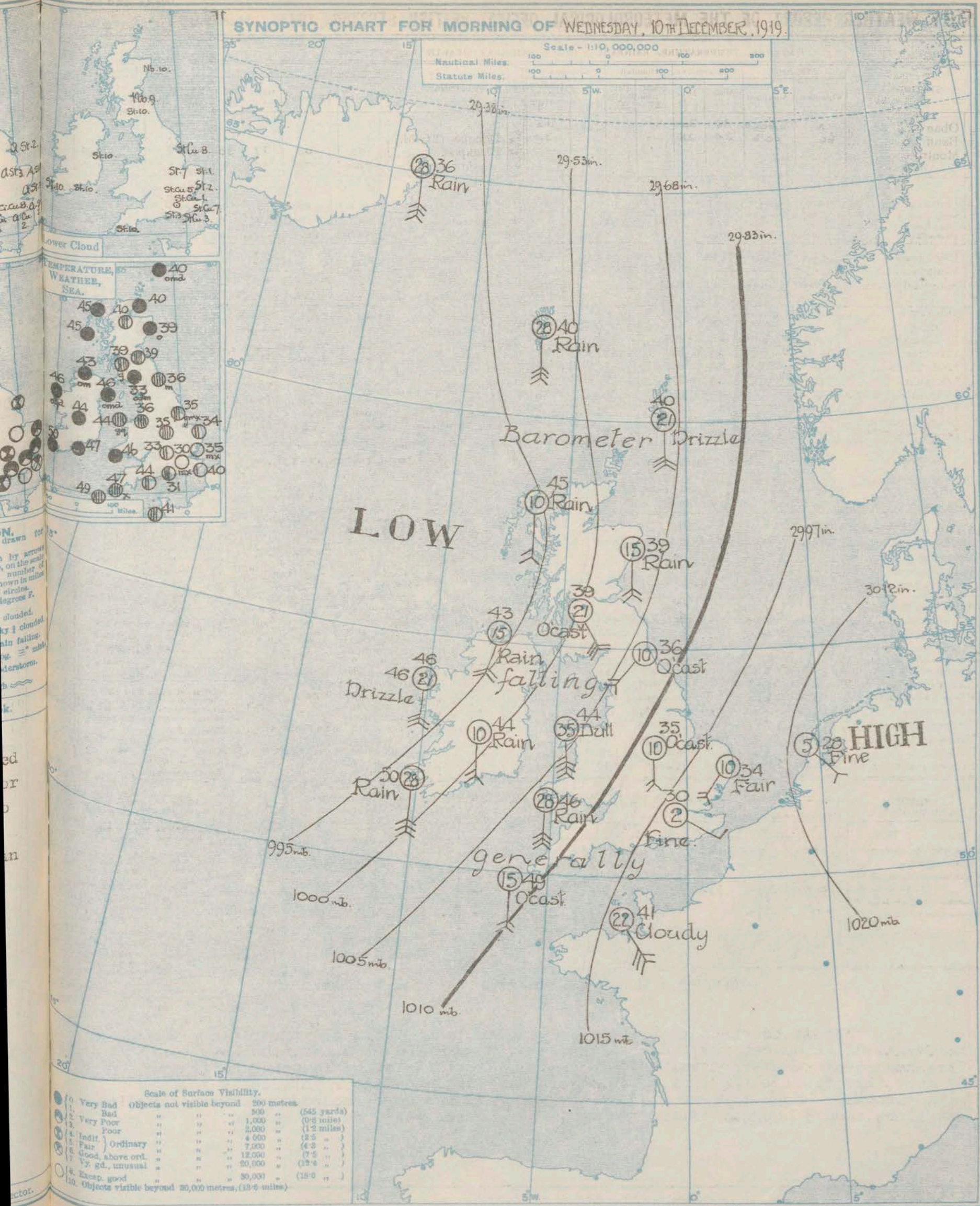
Districts.	Forecasts for the 24 hours commencing 3 p.m. Wednesday, 10th December, 1919	Further Outlook.
1. S.E. England		Unsettled with fresh or strong SW. to W. breezes for more than 24 hours.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales	Strong S. to SW. breezes. Dull, rain at times,	
7. North Wales		
8. N.W. England	Some mist. Mild.	
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	Strong SW. breezes, probably veering to W. later.	
18. N.E. Ireland	Dull, rainy, then showers and fair intervals. Mild.	
19. S.E. Ireland		
20. S.W. Ireland		



Scale - 1:10,000,000

Nautical Miles: 100 0 100 200

Statute Miles: 100 0 100 200



Scale of Surface Visibility.				
0.	Very Bad	Objects not visible beyond	500 metres.	(545 yards)
1.	Bad	" "	1,000 "	(1,090 "
2.	Very Poor	" "	2,000 "	(2,180 "
3.	Poor	" "	4,000 "	(4,360 "
4.	Indist.	" "	7,000 "	(7,570 "
5.	Ordinary	" "	12,000 "	(12,900 "
6.	Good, above ord.	" "	20,000 "	(21,400 "
7.	Vx. gd., unusual	" "	30,000 "	(32,100 "
8.	Except. good	" "	50,000 "	(53,500 "
10.	Objects visible beyond 30,000 metres, (32,100 miles)			



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 344B

Wednesday,  
10<sup>th</sup> DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 9<sup>th</sup>

STATIONS.	WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.	WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
	Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-19h.	Day. 9h-17h.	h.	min.		Forenoon.	Afternoon.	Max. °F.	Min. °F.	Night. 17h-19h.	Day. 9h-17h.	h.	min.
Scotland.									England, N.W.								
Oban ...	*	b.c.c.o	38	30	-	-		0.5	Douglas (I.O.M.)								
Banff ...	b.c.	b.c.b	34	28	-	-		3.1	Blackpool ...	o	o	37	30	-	-		0.0
Montrose ...									Southport ...	c.o	o	36	31	-	-		0.0
St. Andrews ...																	
England, N.E.									Midlands.								
Harrogate ...	c.o	c.o	37	30	-	-		0.2	Buxton ...	c.o	c.o	40	28	-	-		0.0
Skegness ...	c.b.c.b	b.c	38	31	5	-		0.7	Leamington Spa...	b	z	37	32	-	-		2.4
Scarborough ...	*	*	?	?	2	-		1.9	Malvern ...	ex.bxc	c.o	38	28	-	-		2.5
Lowestoft ...	*	*	40	31	-	-		4.1	Ross-on-Wye ...								
England, E.									Wales.								
Felixstowe ...	bcm	bcm	43	30	0.2	-		3.2	Rhyl ...	o	o	37	30	-	-		0.0
Walton-on-Naze...									Colwyn Bay ...	*	*	40	34	-	-		0.0
Southend-on-Sea...	bexm	b.c.bm	38	31	-	-		0.5	Llandudno ...	o	o	40	33	-	-		0.0
									Aberystwyth ...	*	*	42	36	-	-		0.0
England, S.E.									England, S.W.								
Margate ...	c.b.c	b.c.c	41	35	-	-		1.7	Weymouth ...	c.b.c.b	b.b.c.c	44	33	-	-		4.2
Ramsgate ...	o	o	39	33	-	-		1.8	Teignmouth ...								
Folkestone ...	o.c	b.c.c	39	31	-	-		3.0	Torquay ...	b.c.bm	c.b.bm	44	33	-	-		3.2
Hastings ...	b.b.c	b.c	39	32	-	-		2.9	Paignton ...	bcm.b.c	om	45	30	-	-		3.2
Eastbourne ...	b.c	b.c	44	30	-	-		3.2	Penzance ...	c	c.o	47	39	0.3	-		0.5
Brighton ...	c.z	c.f	39	31	-	-		1.7	Newquay ...	b.c.v	c	45	36	0.1	-		1.5
Worthing ...	b.c	b	40	31	-	-		2.0	Bude ...	b	b	45	32	-	-		2.4
Littlehampton ...	*	*	42	33	-	-		3.7	Ilfracombe ...	o.c.o	o	42	37	-	-		0.3
Bournemouth ...	*	*	40	31	-	-		3.2	Weston-s-Mare ...	m.b.c.b	b.c	41	30	-	-		5.0
Tunbridge Wells ...	bmbcm	bcm	36	28	-	-		0.0									

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER.		TEMP.		RAINFALL.		SUN.	
	7h-13h. 9 <sup>th</sup>	13h-18h. 9 <sup>th</sup>	18h-9h. 10 <sup>th</sup>	1h-7h. 10 <sup>th</sup>	Day. 7h-18h.	Night. 18h-7h.	Hours.	Hours.
†Houton Bay (Orkney)...	b.c.c.o.z	o.z.c.asm	o.s.m.o	o.c.m.o.m.c	34	23	30	0.2
†Eskdalemuir ...								
†Stranraer ...								
†Lough Foyle ...								
Valencia (Cahirciveen) ...	o.d.c	b.c.b	b.c.o.or		50	41	37	1.7
†Anglesey (Llangefni) ...	o	o	c.o.od	o.d.g	47	35	41	1.2
†Falmouth ...	o.c.m.v	o.v.o.c	c	b.c.c	41	30	*	*
†Calshot (Hants) ...	o.f.x	c.o.z	b.	b.c.v	37	31	*	*
†Capel (Folkestone) ...								
Aberdeen ...	c.b.c.z	b.b.c.z	c.z.o.m.v	c.o.p.d.	39	30	26	1.7
†East Fortune ...	b.b.c.z	b.c.c.z	p.d.z	q.o.m.	39	30	*	*
†Flamborough Head ...	c.r.s	b.b.c.c	e.f.e	e.f.z	38	30	*	*
†Felixstowe ...	z.r	-	b.c.c	c.o	37	22	*	*
†Cranwell (Lincs) ...	c.o	b.b.c.c	b.c.c	c.o	37	22	*	*
†Bedford ...	b.c.c.z	x	b.b.c.f	b.b.c.f	38	25	*	*
Benson ...	x.b.c.m	b	c.b.c	c.b.c	35	24	18	*
London (Kew Obsy.) ...	b.m.x	b.m.f.x	f.x.b.m.x		37	24	18	0.4

## BEAUFORT NOTATION.

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

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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	1.6-5.2
3	8-12	5.4-6.4
4	13-18	6.5-7.9
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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 1=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora → Solar halo ⊙  
Rime → Lunar halo ⊙  
Glazed frost → Solar corona ⊙  
Glazed roads → Lunar corona ⊙

## LONDON OBSERVATIONS.

	WEATHER.		TEMP.		RAINFALL.		SUNSHINE.		HUMIDITY %	
	Morning	Afternoon.	Night.	Max. °F.	Min. °F.	Min. on Grass. °F.	h.	min.	15 h. G.M.T.	9 h. G.M.T.
24 HOURS ENDED 9h G.M.T. 10 <sup>th</sup>										
Greenwich (Royal Observatory)	fz	fz	bz	34	22	12	-	0.0	88	44
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*
Westminster (St. James's Park)	*	*	*	38	27	20	-	0.0	89	61
" (Admiralty Arch)	c.m.f.x	f.g.z	b.f.x	39	30	*	-	0.0	90	80
Camden Sq. (British Rainfall)	f	f	*	36	26	24	-	0.0	97	83
Kensington Palace	o.f.x	o.f.x	*	36	25	18	-	*	89.08h	74

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	YESTERDAY.		TO-DAY.	
	h.	min.	h.	min.
Total	120	.....	Joules.	
Average Rate.	4.2		Milliwatts.	
Maximum Rate.	8			

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

Stations.	10 <sup>th</sup> and 11 <sup>th</sup> DECEMBER, 1919.		
	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth...	7.54	11.46	3.37
Greenwich	7.56	11.46	3.37
Wick	7.56	11.53	3.50
Valencia ...	7.57	11.53	3.49
	8.53	12.5	3.17
	8.54	12.5	3.16
	8.40	12.34	4.28
	8.41	12.34	4.27

## NOTES ON THE WEATHER OF YESTERDAY.

Frost occurred generally over England and Scotland. The minimum was 22° at Cranwell (Lincolnshire), 23° at Eskdalemuir, and 24° at Benson and Kew. In Ireland milder weather prevailed. Rain began to fall in the west and north by 7 a.m., the total being 7 mm. at Blacksod Point and Roche's Point, and 5 mm. at Stornoway. Four or five hours of bright sunshine were recorded at several English stations, and 3 hours at Banff, in Scotland. There was much fog inland.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 21743.B THURSDAY, 11<sup>th</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																														
STATIONS.	BAROM.	†	WIND.		Weather.	TEMP.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.		Upper Cloud.		Sea.	BAROM.	†	WIND.		Weather.	TEMP.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.		Upper Cloud.		Sea.		
	at M.S.L.	Change in 3 hours.	Dir.	Force 0-12.		°F.	% 0-10.	0-10.	Feet.	Form.	Amt. 0-10.	Form.	Amt. 0-10.		0-9.	at M.S.L.	Change in 3 hours.	Dir.		Force 0-12.	°F.	% 0-10.	0-10.	Feet.	Form.	Amt. 0-10.	Form.		Amt. 0-10.	0-9.
	m.b.															m.b.														
13H. G.M.T. OF 10 <sup>th</sup>														18H. G.M.T. OF 10 <sup>th</sup>																
†Houton B. (Orkney)	1001.1	-4	S	5	om	36	92	3	1-1500	Nb	10	-	-	*	998.1	-3	SSE	4	om	35	98	3	1-1500	Nb	10	-	-	*		
†Eskdalemuir ...														*													*			
†Stranraer ...														*													*			
†Lough Foyle ...														*													*			
†Valencia (Chichester)	995.0	-3	SW	2	om	51	92	6	1-1000	St	10	-	-	4	992.6	-3	E	1	of	47	98	6	1-2000	St	10	-	-	4		
†Anglesey (Llangefni)	999.2	-8	S	7	d.	44	92	5	1-1500	Nb	10	-	-	7	997.1	-4	S	7	od	45	92	1	1-1500	Nb	10	-	-	8		
†Falmouth ...	1005.4	-4	SW	3	om	48	92	4	-	Nb	10	-	-	*	1000.5	-5	?	5	od	49	92	1	-	Nb	10	-	-	*		
†Calshot (Hants) ...	1013.5	-1	SSW	5	0	44	75	6	1-2000	St	9	-	-	6	1009.3	-5	S	7	og	42	92	4	1-1500	St	10	-	-	6		
†Capel (Folkestone)														*	1014.1	-3	S	8	bc	33	87	5	1-1500	St	5	-	-	5		
1H. G.M.T. OF 11 <sup>th</sup>														7H. G.M.T. OF 11 <sup>th</sup>																
†Houton B. (Orkney)	993.5	-3	SSE	4	om	37	98	2	1-1500	Nb	10	-	-	*	993.7	+2	SSE	4	om	39	98	5	-	Nb	10	-	-	*		
†Eskdalemuir ...														*													*			
†Stranraer ...														*													*			
†Lough Foyle ...														*													*			
†Valencia (Chichester)	999.3	-3	SSE	3	bc	44	*	*	*	*	*	*	*	*	991.0	+5	SW	4	c	44	82	8	2-3000	cu	8	-	-	*		
†Anglesey (Llangefni)														*													*			
†Falmouth ...	996.5	+2	SW	4	of	49	92	1	-	Nb	10	-	-	*	999.5	+3	SSW	5	bc	47	55	6	-	cu	5	-	-	*		
†Calshot (Hants) ...	1004.6	-2	S	6	0	40	98	2	1-2000	St	10	-	-	5	1002.9	0	SW	4	of	43	92	5	1-2000	Nb	10	-	-	?		
†Capel (Folkestone)	1012.3	-2	SSW	7	0	32	97	5	1-1000	St	10	-	-	*	1009.5	-1	S	7	0	34	75	5	-	-	-	Ast	10	6		
†Aberdeen ...														*	992.9	-1	S	4	om	42	92	4	-	Nb	10	-	-	3		
†East Fortune ...	994.1	-2	S	4	0	42	87	-	2-3000	Nb	4	Ast	6	*	992.4	+2	S	4	0	40	82	1	1-2000	Nb	4	Ast	6	*		
†Flamborough Head	1003.1	-1	SSW	10	of	36	82	5	1-1500	St	10	-	-	*	1000.9	-1	SW	7	of	35	98	5	1-1000	St	10	-	-	*		
†Felixstowe ...	1010.6	-4	S	6	og	36	92	5	1-2000	St	10	-	-	6	1008.2	-2	S	7	0	38	87	4	2-3000	St	10	-	-	4		
†Cranwell (Lincs)	1004.2	-4	SSE	5	0	34	98	4	2-3000	St	6	Ast	4	*	1001.1	-1	SSE	5	of	35	92	4	1-2000	Nb	10	-	-	*		
†Bedford ...	1006.0	-4	SSE	4	og	38	75	2	3-4000	St	7	Ast	3	*	1003.3	-1	S	4	od	37	82	1	1-1500	St	10	-	-	*		
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.6	0	SSE	6	of	39	98	?	-	Nb	10	-	-	*		
London (Kew Obs.)	1006.0	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.4	-2	S	4	od	38	87	3	1-2000	Fr	1	Ast	9	*		
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																														
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.		WIND.		Dir. of Upper Cloud.	Weather.	Sea.	Rainfall.	TEMP.		WEATHER.			Sunshine.									
	at M.S.L.	°F.	Dir.	Force 0-12.		at M.S.L.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.					Max. °F.	Min. °F.	Morning.	Afternoon.	Night.										
	m.b.					m.b.																								
18H. G.M.T. OF 10 <sup>th</sup>												7H. G.M.T. OF 11 <sup>th</sup>												24 HOURS ENDED 7H. 11 <sup>th</sup>				10 <sup>th</sup>		
Lerwick ...	995.3	43	S	6	om	993.3	-2	43	+3	S	8	-	om	5	15	44	40	om	om	om	*									
Stornoway ...	988.0	47	S	5	of	988.5	+1	42	-3	S	1	-	c	1	8	47	40	of	of	odp.c.	0.0									
Castlebay (Barra)	988.5	48	SSW	4	of	988.4	0	46	+1	SE	4	-	0	4	2	48	44	rd	rd	nc. of	0.0									
Glasgow ...	995.3	41	SSE	4	om	992.4	+3	42	+3	SSW	1	-	og	4	4	43	37	og	odp	odp	0.0									
Malin Head ...	989.7	45	SW	3	0	987.1	0	40	-3	SE	3	SE	c	3	2	46	41	of	0	c	0.0									
Blacksod Point	990.3	47	SW	2	cm	985.3	-7	43	-3	SE	3	-	cm	4	5	51	37	bc	bc	bc	0.0									
Roche's Point...	993.4	48	NW	1	r	992.6	+2	44	-3	WSW	3	-	b	4	21	51	43	df	df	no.b.	*									
Birr Castle ...	992.8	50	S	2	r	989.5	*	42	-2	S	3	-	c	*	19	50	41	of	of	c	0.0									
Donaghadee ...	992.4	47	SSW	3	om	991.7	-1	44	-2	SSW	2	S	om	2	32	48	41	om	om	om	*									
Liverpool (Bidston)	999.8	41	SE	5	0	995.0	0	41	+5	SSE	4	-	0	4	2	43	36	of	of	c. om	0.0									
Holyhead ...	995.8	46	S	7	og	992.0	0	48	+4	SW	4	SW	cg	3	16	48	42	odp	og	v. of p.d.	0.0									
Pembroke (St. Ann's Head)	998.0	48	S	6	og	996.3	+2	46	0	SW	5	-	og	5	16	50	46	om	om	o.c.	0.0									
Scilly (St. Mary's)	999.1	51	SSE	4	f	999.8	+3	48	-1	WSW	4	W	bc	5	7	51	43	fd	fd	of m. bc	0.0									
Jersey (St. Aubin)	1010.3	41	SSE	6	0	1008.4	-1	41	0	S	5	-	od	4	1	42	39	c. o.	0	odm	1.7									
Portland Bill ...	1006.2	45	S	7	og	1000.9	+1	46	+2	S	8	-	y	7	20	46	42	bc. o.	og	gm	*									
Dungeness ...	1012.5	37	SSW	5	b	1005.9	?	40	0	SSW	7	S	cg	6	-	41	35	c	c. bc.	c. o. cg	*									
Wick ...	992.5	42	S	7	om	990.7	0	42	+3	S	4	-	om	4	9	42	35	om	om	om	*									
Nairn ...	991.9	42	SSW	2	c	989.9	*	34	-6	-	0	-	bc	1	5	42	33	cg	cg	ch. s. x	0.0									
Leith ...	994.8	41	SE	4	r	991.3	+1	45	+6	SSW	3	-	0	2	1	45	38	od	od	ru. q. o.	*									
Tynemouth ...	1002.6	38	S	4	om	996.3	-2	39	+3	SSW	4	-	0	4	1	38	35	om	og	om	*									
Spurn Head ...	1005.7	37	S	7	og	1001.1	-3	36	+1	S	7	-	og	6	1	39	35	og	og	og	*									
Yarmouth (Gor. station)	1012.4	36	SSW	6	bc	1007.2	-2	36	+2	SSW	8	-	c	7	-	39	33	bc	bc	ch. q. bc	1.4									
Clacton-on-Sea	1013.3	38	SSE	6	c	1006.9	-2	36	+1	SSE	6	-	0	4	-	40	34	bc. bc	bc. c.	c. o.	2.2									
Nottingham ...	1006.6	39	S	4	of	1000.8	*	38	+3	S	4	S	0	*	1	40	35	0	0	to	0.0									

+ Air Ministry Station.

\* Information for these columns not usually received.

† The barometric change is expressed in half millibars.

§ Longside † at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Thursday, 11th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Sly. 20-30	R. cold	Dull, local rain & squalls.	s. Ord.	Rough
2. E. England	Sly. 15-25	"	Dull, local rain, gale at Gorleston.	"	Mod.
3. E. Midlands	SE-S. 15-25	"	Dull, local rain.	Poor	-
4. W. Midlands	S-SW. 15-25	"	Dull, local rain.	Ord.	-
5. S.W. England	S-SW. 15-20	Mod.	Fair, local rain, gale at Portland.	Good	R. rough
6. South Wales	SW. 15-20	"	Dull, local showers.	Fair	"
7. North Wales	S-SW. 15	R. mild	Cloudy.	"	Slight
8. N.W. England	SE-S. 15	Mod.	Dull, local drizzle.	Ord.	Mod.
9. N. Midlands	S. 15	"	Dull.	"	-
10. N.E. England	S-SW. 20-30	R. cold	Dull, local showers and squalls.	Fair	R. rough
11. E. Scotland	S. 10-15	Mod.	Fair to dull, local mist.	Ord.	Slight
12. S.W. Scotland	Sly. 5-15	"	Dull, local mist & drizzle.	Fair	Smooth
13. Isle of Man	S-SW. 5-15	"	Dull.	"	Slight
14. N. & N.W. Scot- land	S. 5-15	"	Dull, local mist & squalls.	Ord.	Mod.
15. Hebrides	SE-S. 5-15	"	Cloudy or dull, showers.	Fair	Slight
16. Orkneys and Shetlands	S. 40-45	R. mild	Dull, misty, local rain.	Poor	R. rough
17. N.W. Ireland	SE. 10	Mod.	Cloudy, misty, some showers.	"	Mod.
18. N.E. Ireland	SE-SW. 5-10	"	Cloudy or dull, local mist.	Ord.	Slight
19. S.E. Ireland	S. 10	"	Cloudy.	Fair	Mod.
20. S.W. Ireland	SW. 10-15	"	Fine to cloudy.	Good	"



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊖ overcast sky. ⊖ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. K thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

## GENERAL INFERENCE from observations received up to 9 a.m.

The depression off the west of Ireland will cause mild and showery weather generally with a considerable amount of low cloud. Wind from S. or SW. veering West in Ireland and SW. England.

Districts.	Forecasts for the 24 hours commencing 3 p.m. Thursday, 11th December, 1919	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Fresh or strong S. or SW. breezes. Much low cloud, showery. Visibility fair. Mild.	Unsettled weather with SW. or W. breezes for more than 24 hours.
5. S.W. England 6. South Wales	Fresh SW. to W. breeze. Sky half to wholly covered with low cloud, showery. Visibility fair. Rather mild.	
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. Scot- land 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland 18. N.E. Ireland	Same as for 1-4	
19. S.E. Ireland 20. S.W. Ireland	Fresh SW. to W. breezes. Varying amount of low cloud, some showers. Visibility good. Rather colder.	



# SYNOPTIC CHART FOR MORNING OF Thursday, 11<sup>th</sup> DEC<sup>r</sup>, 1919.

Scale - 1:10,000,000  
Nautical Miles. 100 200 300  
Statute Miles. 100 200 300





WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 10 <sup>th</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-1h. 9 <sup>h</sup>	Day. 1h-10h. 10 <sup>h</sup>	Sunrise to Sun- set. 10 <sup>h</sup>	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-1h. 9 <sup>h</sup>	Day. 1h-10h. 10 <sup>h</sup>	Sunrise to Sun- set. 10 <sup>h</sup>		
Scotland.	Oban ... ..	or	or	48	34	7	24		0.0	England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	og	or	40	30	0.1	1		0.0		Blackpool ... ..	or	or	41	31	-	1		0.0
	Montrose ... ..										Southport ... ..	c.o.	or.o	41	31	-	1		0.0
	St. Andrews ... ..	o	h	41	28	3	3		0.0										
England, N.E.	Scarborough	-	-	42	37	-	-		0.0	Midlands.	Buxton ... ..								
	Harrogate ... ..	o	oh	37	30	-	-		0.0		Leamington Spa...	c.b.	c.b.og	41	29	-	0.2		0.0
	Skegness ... ..	c	c.o	38	30	-	1		0.3		Malvern ... ..	o	o	41	34	-	1		0.0
											Ross-on-Wye ... ..	og	og.d.g.og	43	37	-	0.1		0.0
England, E.	Felixstowe ... ..	bef	bcq	41	25	-	-		3.4	Wales.	Rhyl ... ..	c.o	o	46	32	-	-		0.0
	Walton-on-Naze...										Colwyn Bay ... ..	-	-	47	40	-	-		0.1
	Southend-on-Sea...	fx.bc	bc	41	29	-	-		2.4		Llandudno ... ..	o	o	48	39	-	-		0.0
	Lowestoft.	-	-	41	28	-	-		1.5		Aberystwyth ... ..	c.o.c	c.o.o	45	42	†	†		0.0
England, S.E.	Margate ... ..	bc	b	40	28	0.2	-		1.1	England, S.W.	Weymouth ... ..	c.o.cq	o.cdq	45	41	-	-		0.0
	Ramsgate ... ..	b	b	39	26	-	-		0.0		Teignmouth ... ..								
	Folkestone ... ..	bc	o.c.o	41	37	-	-		1.5		Torquay ... ..	od	or	47	37	-	1		0.0
	Hastings ... ..	bc.b	bc	41	33	-	-		4.2		Paignton ... ..	od	odq	46	38	Trace	1		0.0
	Eastbourne...	bc.c	bc.c.	42	27	-	-		4.0		Penzance ... ..	or	ord	51	45	4	5		0.0
	Brighton ... ..	c	c.o	42	28	-	-		2.2		Newquay ... ..	omr	omr	49	43	1	2		0.0
	Worthing ... ..	bc	bc	40	27	-	-		1.8		Bude ... ..	d	d	50	36	0.1	-		0.0
	Littlehampton ... ..										Ifracombe ... ..	ogr	ogr	47	40	0.4	2		0.0
	Bournemouth ... ..			43	32	-	-		0.0		Weston-s-Mare ... ..	bc.c.o	r	46	30	-	4		0.0
	Tunbridge Wells ... ..	b.bc.b	b	40	24	-	-		3.5										

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.	THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	RAINFALL.		Sun. Hours.		No.	Limits of Velocity.	
	7h-13h10.	13h-18h10.	18h10-12h1.	1h-7h11.				Day. 7h-13h.	Night. 13h-7h.				Statute miles per hour.	Metres per second.
†Houton Bay (Ockney)...							*	*	*	*	b blue sky (not more than a quarter covered).	0	Less than 1	Less than 0.3
†Eskdalemuir ...	odm	ors m	orsorm	ormodm	41	32	34	10	22	0.0	bc sky partly cloudy (one half covered).	1	1-3	0.3-1.5
†Stranraer ...							*	*	*	*	c generally cloudy (three quarters covered).	2	4-7	1.6-3.3
†Lough Foyle ...							*	*	*	*	d drizzle, or fine rain.	3	8-12	3.4-5.4
†Valencia (Cahirveen) ...	opr	or h	c. bl.	chq	53	44	36	7	7	0.0	e wet air without rain falling.	4	13-18	5.6-7.9
							*	*	*	*	f fog, g gloom.	5	19-24	8.0-10.7
							*	*	*	*	h hail, i lightning.	6	25-31	10.8-13.8
†Anglesey (Llangefni) ...	o r.	d. r.					*	*	*	*	m mist.	7	32-38	13.9-17.1
†Falmouth ...	or	od, odq	orq	c. bc	51	45	43	5	12	0.0	p overcast sky.	8	39-46	17.2-20.7
†Calshot (Hants) ...	c.o	q	p.	o r.	43	38	*	*	*	*	o passing showers.	9	47-51	20.8-24.4
†Capel (Folkestone)...		b. bc	og	q.o	37	32	*	*	*	*	q squalls.	10	52-58	24.5-28.4
							*	*	*	*	r rain.	11	59-65	28.5-33.5
Aberdeen ...	orm	ormq	ogrm		42	38	38	2	17	0.0	rs sleet, i.e., rain and snow together.	12	Above 75	33.6 or above
†East Fortune ...		q r.	pg	q	45	38	*	*	*	*	s snow.			
†Flamborough Head ...	q.o	of, r.	q r.		41	35	*	*	*	*	t thunder.			
†Felixstowe ...	bc.cq	b. bcq	bcc	q	40	36	*	*	*	*	u ugly, threatening sky.			
†Cranwell (Lincs) ...	o c	o	op	h. o	37	34	*	*	*	*	v unusual visibility.			
†Bedford ...	3. q	om, 2. q	com	o r. q	?	?	*	*	*	*	w dew.			
Benson ...	o.c.	o			40	31	35	-	1	*	x hoar frost.			
London (Kew Obsy.) ...	bcx bcx bc	bc.c.	oprs od		41	29	34	Trace	0.3	2.4	y dry air; humidity less than 60 per cent.			
											z dust haze; the turbid atmosphere of dry weather.			

Suffixes 0.1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

SYMBOLS—  
Aurora ☄ Solar halo ☉  
Rime ☃ Lunar halo ☾  
Glazed frost ☁ Solar corona ☉  
Glazed roads ☁ Lunar corona ☾

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. inches.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.				
	Morning	Afternoon.	Night.						15 h. G.M.T.	0 h. G.M.T.		11 <sup>th</sup> 12 <sup>th</sup> 13 <sup>th</sup> December 1919.				
	24 HOURS ENDED 9h G.M.T. 11 <sup>th</sup>							YESTERDAY.		To-day.		Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.	Sunset.
Greenwich (Royal Observatory)	bc	bc. a	o	41	33	29	0.3	2.7	68	85	Total 224 Joules. Milliwatts. Average Rate. 7.9 Maximum Rate. 18	Yarmouth...	7.56	11.46	3.37	
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.6	*	*		Greenwich	7.57	11.47	3.36	
Westminster (St. James's Park)	*	*	*	43	36	30	0.4	2.2	63	84		Wick	8.54	12.5	3.16	
" (Admiralty Arch)	bcx bc	bc. om	of og od	43	37	*	0.2	1.4	79	96		Valencia ...	8.41	12.34	4.27	
Camden Sq. (British Rainfall)	om. bc.	bc	*	41	36	30	1	*	71	91			8.42	12.35	4.27	
Kensington Palace ...	bc.	bc. a	*	39	35	34	1	*	79 (18h)	88						

## NOTES ON THE WEATHER OF YESTERDAY.

Sunshine records were good at some stations in the SE. of England, four hours at Hastings and Eastbourne, and 3½ hours at Tunbridge Wells and Felixstowe, but in most parts of the United Kingdom there was none. There were some heavy falls of rain, 32 mm. at Donaghadee and Eskdale and about 20 mm. at Roche's Point, Birr Castle, Portland Bill and Aberdeen. The maximum temperature reached 50° in Ireland and the west of England.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 2144. B. FRIDAY, 12<sup>TH</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																												
STATIONS.	BAROM.	↑	WIND.		Weather.	TEMP.	HUMIDITY.	VISIBILITY.	Height of Low Cloud.	Low Cloud.		Upper Cloud.		Sea.	BAROM.	↑	WIND.		Weather.	TEMP.	HUMIDITY.	VISIBILITY.	Height of Low Cloud.	Low Cloud.		Upper Cloud.		Sea.
	at M.S.L.	Change in 3 hours.	Dir.	Force		°F.	%	0-10.	Feet.	Form.	Amt.	Form.	Amt.		at M.S.L.	Change in 3 hours.	Dir.	Force		°F.	%	0-10.	Feet.	Form.	Amt.	Form.	Amt.	
	m.b.			0-12.							0-10.		0-10.		0-9.	m.b.				0-12.						0-10.		
13H. G.M.T. 11 <sup>TH</sup>														18H. G.M.T. OF 11 <sup>TH</sup>														
†Houton B.(Orkney)	996.5	+2	SSW	6	0	44	82	6	1½-2000	Nb	10	-	-	*	1000.8	+5	SSW	3	0	38	98	6	-	Nb	8	-	-	*
†Eskdalemuir ...	996.5	+2	SSW	6	0	44	82	6	1½-2000	Nb	10	-	-	*	1000.8	+5	SSW	3	0	38	98	6	-	Nb	8	-	-	*
†Stranraer ...	996.5	+2	SSW	6	0	44	82	6	1½-2000	Nb	10	-	-	*	1000.8	+5	SSW	3	0	38	98	6	-	Nb	8	-	-	*
†Lough Foyle ...	996.5	+2	SSW	6	0	44	82	6	1½-2000	Nb	10	-	-	*	1000.8	+5	SSW	3	0	38	98	6	-	Nb	8	-	-	*
†Valencia (Cahire'n)	995.1	+1	S	3	bc	46	75	8	2-3000	Cu	5	A.Cu	1	4	997.4	+3	S	3	0	42	75	8	2-3000	Cu	3	-	-	4
†Anglesey (Llangefni)	998.2	+1	SSW	4	0	46	92	6	2-3000	St.Cu	7	A.St	1	5	1001.7	+3	SSW	3	0	43	92	-	2-3000	St.Cu	2	A.St	1	4
†Falmouth ...	1002.7	0	SW	4	bc	50	65	7	-	Cu	4	-	-	*	1004.1	+2	SSW	3	0	48	82	6	-	Cu	2	-	-	*
†Calshot (Hants) ...	1005.6	+2	SW	3	0	46	98	6	1½-2000	St	10	-	-	4	1008.1	+3	SW	2	0	46	98	4	1-1500	St	5	A.St	5	4
†Capel (Folkestone)	1009.0	-2	SSW	8	0q	37	75	5	½-1000	St	10	-	-	6	1009.8	0	SSW	7	0q	38	98	4	½-1000	Nb	10	-	-	5
Aberdeen ...	995.2	+2	SSE	4	om	43	92	4	-	Nb	10	-	-	5	997.9	+4	S	4	0	44	87	4	-	-	-	-	-	5
†East Fortune ...	994.6	0	S	5	bcq	46	87	6	2-3000	St.Cu	5	-	-	*	998.8	+4	SW	3	0	43	82	-	2-3000	St.Cu	2	-	-	*
†Flamborough Head	1003.6	+1	SSW	6	0	38	92	5	1-1500	St.Cu	9	-	-	*	1005.0	+3	SSW	5	0	40	92	2	2-3000	St	10	-	-	*
†Felixstowe ...	1008.6	-1	S	5	od	37	92	4	2-3000	Cu.Nb	10	-	-	5	1009.8	+1	SSW	4	0	40	98	5	1-1500	St	10	-	-	4
†Cranwell (Lincs)	1003.8	0	SSE	4	0	39	98	5	½-1000	St	10	-	-	*	1006.4	+3	S	3	0	41	98	3	½-1000	St	10	-	-	*
†Bedford ...	1005.0	+1	SSW	3	0q	41	92	2	2-3000	St	10	-	-	*	1006.5	+2	S	3	0	43	98	4	-	-	-	-	-	*
Benson ...	1002.9	+2	SSE	4	om	44	98	4	-	-	-	-	-	*	1008.1	+3	S	3	om	44	92	4	2-3000	St.Cu	9	A.St	1	*
London (Kew Obs.)	1005.8	0	S	3	om	42	92	4	2-3000	St.Cu	9	A.St	1	*	1008.1	+3	S	3	om	44	92	4	2-3000	St.Cu	9	A.St	1	*
1H. G.M.T. OF 12 <sup>TH</sup>														7H. G.M.T. OF 12 <sup>TH</sup>														
†Houton B.(Orkney)	1002.7	0	SSE	3	0	39	87	6	-	St	10	-	-	*	1004.2	+2	S	4	0	39	98	6	-	St.Cu	10	-	-	*
†Eskdalemuir ...	1002.7	0	SSE	3	0	39	87	6	-	St	10	-	-	*	1004.2	+2	S	4	0	39	98	6	-	St.Cu	10	-	-	*
†Stranraer ...	1002.7	0	SSE	3	0	39	87	6	-	St	10	-	-	*	1004.2	+2	S	4	0	39	98	6	-	St.Cu	10	-	-	*
†Lough Foyle ...	1002.7	0	SSE	3	0	39	87	6	-	St	10	-	-	*	1004.2	+2	S	4	0	39	98	6	-	St.Cu	10	-	-	*
†Valencia (Cahire'n)	998.9	0	S	3	bcq	46	*	*	*	*	*	*	*	*	1004.3	+5	SW	3	bcq	47	82	8	3-4000	Cu	5	-	-	*
†Anglesey (Llangefni)	1004.9	0	S	1	0	47	87	4	-	St.Cu	9	-	-	*	1008.1	+3	-	0	0	46	92	5	-	St.Cu	10	-	-	*
†Falmouth ...	1009.4	+2	SW	2	0	45	98	6	2-3000	St	9	-	-	3	1010.0	+1	SSW	2	0	45	92	5	1½-2000	St	9	-	-	3
†Calshot (Hants) ...	1012.6	+1	SSW	4	0	37	98	0	1-1500	St	10	-	-	*	1013.5	+1	-	0	0	38	98	0	-	-	-	-	-	7
†Capel (Folkestone)	1012.6	+1	SSW	4	0	37	98	0	1-1500	St	10	-	-	*	1013.5	+1	-	0	0	38	98	0	-	-	-	-	-	7
Aberdeen ...	1002.7	+2	SSW	2	om	42	82	-	2-3000	St.Cu	9	-	-	*	1002.6	+1	SSW	3	bc	42	92	4	-	St.Cu	1	-	-	3
†East Fortune ...	1002.7	+2	SSW	2	om	42	82	-	2-3000	St.Cu	9	-	-	*	1002.6	+1	SSW	3	bc	42	92	4	-	St.Cu	1	-	-	3
†Flamborough Head	1006.8	0	SW	6	0	39	92	3	3-4000	St	10	-	-	*	1003.4	+1	S	2	b	42	82	7	2-3000	St	2	-	-	*
†Felixstowe ...	1013.0	+1	S	3	0	41	98	4	2-3000	Cu.Nb	10	-	-	3	1007.4	+2	SSW	5	b	41	92	4	1½-2000	St	1	-	-	*
†Cranwell (Lincs)	1008.8	0	S	3	0	42	98	4	2-3000	St	6	A.St	4	*	1013.7	+3	S	2	0	41	98	4	1-1500	St.Cu	10	-	-	1
†Bedford ...	1009.0	+1	SSW	1	om	43	92	1	3-4000	St	10	-	-	*	1009.8	+1	S	3	0	41	98	3	1½-2000	St	10	-	-	*
Benson ...	1009.5	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.0	+3	SSW	1	0	44	87	2	1½-2000	St	10	-	-	*
London ...	1009.5	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.7	+3	SSE	3	0	43	92	7	-	Cu	10	-	-	*
(M.O. at 1h)	1009.5	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.6	+1	S	2	om	43	87	4	2-3000	St.Cu	8	A-st	2	*
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																												
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.		WIND.		DIREC.	WEATHER.	SEA.	TEMP.		WEATHER.			SUNSHINE								
	at M.S.L.	°F.	Dir.	Force		at M.S.L.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Dir.	Force				Max. °F.	Min. °F.	Morning.	Afternoon.	Night.									
	m.b.			0-12.			m.b.																					
18H. G.M.T. OF 11 <sup>TH</sup>														7H. G.M.T. OF 12 <sup>TH</sup>										24 HOURS ENDED 7H. 12 <sup>TH</sup>				
Lerwick ...	995.7	45	S	4	omr	1000.6	+2	45	+2	S	8	-	omq	5	45	42	omr	omr	omq	*								
Stornoway ...	989.1	44	S	3	0	994.6	0	45	+3	SSW	6	-	chq	5	45	39	c	cp	chq	0.4								
Castlebay (Barrals)	990.4	44	W	6	0p	993.6	0	45	-1	S	5	-	ch	6	46	42	0p	0p	ch. ch.	0.0								
Glasgow ...	998.6	42	SSW	4	cz	1002.8	+1	39	-3	SSE	2	S	bz	*	46	37	0p	bc. cz	bc. b.	2.1								
Malin Head ...	992.1	41	SSW	4	bc	994.7	0	43	0	SSW	4	SW	c	4	46	37	c	cp	c	0.6								
Blacksod Point	993.4	45	SW	3	c	996.8	+7	48	+5	SW	3	-	bc	1	48	36	bc	bc	bc. bc	*								
Roche's Point...	998.7	42	SW	2	0	1005.2	+3	47	+3	WSW	2	-	0	3	48	40	cp. bc	c. op	o. b. o.	*								
Birr Castle ...	997.2	40	S	2	c	1002.7	*	42	0	S	1	-	0	*	45	35	c	c	ch. o.	5.8								
Donaghadee ...	995.9	+3	SW	2	bc	1002.7	+1	41	-3	SW	3	-	bc	3	46	39	bc	bc	bc	*								
Liverpool (Bidston)	1003.5	41	SSE	1	b	1006.0	+2	42	+1	SSE	2	SW	bc	2	48	39	bc. bc	bc. bc	ch. bc	1.1								
Holyhead ...	1002.6	45	SW	3	b	1004.5	+2	45	-3	SW	4	-	b	2	48	43	c. bc. cp	b. bc. cp	b. bc. c.	4.1								
Pembroke (St. Ann's Head)	1002.2	45	SW	5	bcq	1002.9	+3	47	+1	SW	3	-	b	3	49	45	bc	cyp	o. c. bc.	4.3								
Scilly (St. Mary's)	102.7	49	SSW	3	bc	1007.9	+3	45	-3	NW	2	-	b	4	51	45	bc	bc	c. bc. b.	5.2								
Jersey (St. Aubin)	1005.0	40	S	4	om	1013.2	+1	45	+4	SSE	4	-	om	4	46	40	adm. bc	oem	oem	0.0								
Portland Bill ...	1005.5	47	WSW	4	bc	1007.8	+3	46	0	S	5	-	c	5	49	44	0p	o. bc	c	*								
Dunegness ...	1008.8	41	SSW	4	b	1012.0	?	41	+1	SSW	2	-	om	td														



# SUMMARY OF CONDITIONS AT 7 A.M. Friday, 12th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S.E. - S	Rather mild	Dull, mist or fog	Var.	Slight
2. E. England	Sly. 5 - 10	Moderate	Dull, local mist	Poor	Slight
3. E. Midlands	SE - S 5-10	Moderate	Cloudy or dull	Poor	-
4. W. Midlands	Sly. 5-10	"	Fair to dull	Ord	-
5. S.W. England	S-NW 5-15	"	Variable sky	Fair	Mod
6. South Wales	S.W. 10-15	"	Fine	"	Slight
7. North Wales	S.W. 10-15	"	Fair or fine	"	Smooth
8. N.W. England	Sly. 5-15	"	Fair to dull	"	"
9. N. Midlands	Sly. 2-10	"	Cloudy or dull	Poor	-
10. N.E. England	S.-S.W. 5-15	"	Variable sky, local mist	"	Slight
11. E. Scotland	S.-S.W. 2-10	R. Mild	Fine and drizzle. local mist.	Ord	"
12. S.W. Scotland	Sly. 5-15	Moderate	Variable sky	Good	"
13. Isle of Man	SW. 5-15	"	Fair or fine	Fair	Smooth
14. N. & N.W. Scotland	S.-S.W. 5-15	R. Mild	Fine to cloudy	-	Moderate
15. Hebrides	S.-S.W. 20-30	"	Dull, showery, local squalls	-	R. Rough
16. Orkneys and Shetlands	S. 35-45	"	Dull, misty, squally	Poor	"
17. N.W. Ireland	S.W. 10-15	"	Fair or cloudy	Ord.	Smooth
18. N.E. Ireland	S.W. 10-15	Moderate	Fair or cloudy	"	Slight
19. S.E. Ireland	S.S.W. 5-15	"	Fair to dull, local drizzle.	Good	"
20. S.W. Ireland	S.W. 5-10	"	Fair to dull, local showers.	V. Good	"

Upper Cloud

Visibility

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ☁ sky & clouded. ☁ sky & clouded.  
 ☁ overcast sky. ☁ rain falling.  
 \* snow. ▲ hail. ☁ fog. ☁ mist.  
 T thunder. F thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

GENERAL INFERENCE from observations received up to 9 a.m.

General Inference from Observations at 7 a.m.  
 The depression to the NW of the British Isles is persisting. Mod. S to SW breezes with a varying amount of low cloud, & some passing showers may be expected, with a mild air.

Districts.	Forecasts for the 24 hours commencing 3 p.m.	Friday, 12 th December, 1919.
1. S.E. England	Mod. S - SW breezes; considerable low cloud, some passing showers; rather poor visibility, milder.	
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England	Mod. SW breezes; varying amount of low cloud, passing showers; fairly good visibility; mild.	
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	Same as 4 - 9.	
14. N. & N.W. Scotland		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland	Fresh or strong S to SW breezes, moderating; much low cloud, passing showers, normal vis. mild.	
18. N.E. Ireland		
19. S.E. Ireland		
20. S.W. Ireland		

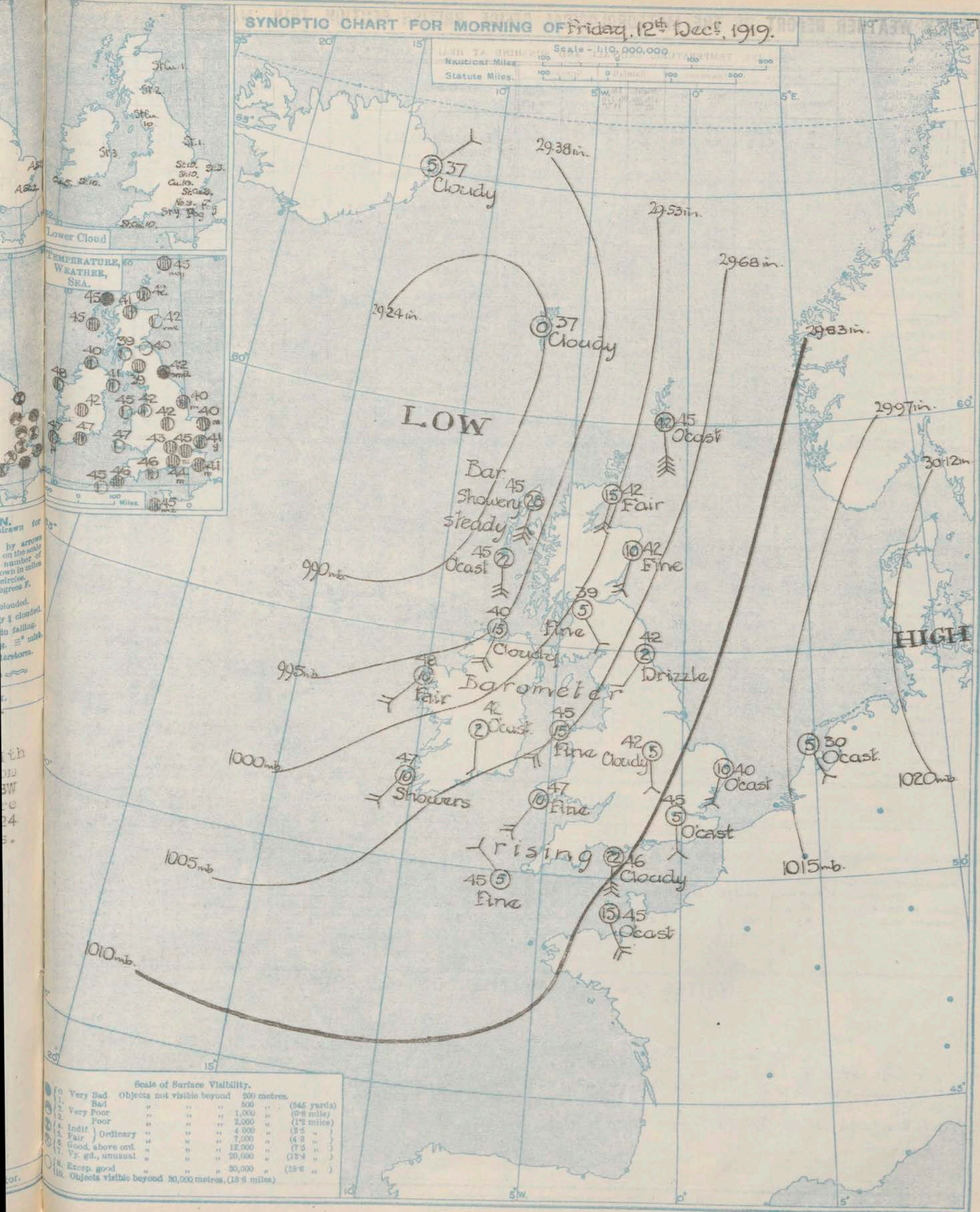


SYNOPTIC CHART FOR MORNING OF Friday, 12<sup>th</sup> Dec<sup>r</sup>, 1919.

Scale - 1:10,000,000

Nigamati.com - Milan

Statute Miles



#### Scale of Surface Viability.

Degree of surface visibility.			
1.	Very Bad	Objects not visible beyond	200 metres.
2.	Bad	" "	500 "
3.	Very Poor	" "	1,000 "
4.	Poor	" "	2,000 "
5.	Indit	" "	4,000 "
6.	Fair	Ordinary	7,000 "
7.	Good, above av.	" "	10,000 "
8.	Vy. gd., unusual	" "	20,000 "
9.	Except. good	" "	30,000 "
10.	Objects visible beyond	30,000 metres,	(18.6 miles)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 346 B

Friday,  
12<sup>th</sup> DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 11<sup>th</sup>

STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 10 <sup>th</sup> 11 <sup>th</sup>	Day. 9h-17h. 12 <sup>th</sup>	Sunrise to Sun- set. 11 <sup>th</sup>	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 10 <sup>th</sup> 11 <sup>th</sup>	Day. 9h-17h. 12 <sup>th</sup>	Sunrise to Sun- set. 11 <sup>th</sup>		
Scotland.	Oban ... ..	*	a.e.o.r.o.c	46	36	10	3	0.7	England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	o.c	b.c.b	43	38	6	-	0.7		Blackpool ... ..	o	c	47	38	1	-	0.5		
	Montrose ... ..									Southport ... ..	b.c.c.b.c	b.c.b	47	40	0.2	-	0.1		
	St. Andrews ... ..																		
England, N.E.	Harrogate ... ..	op	o.c	41	35	3	0.1	0.0	Midlands.	Buxton ... ..									
	Skegness ... ..									Leamington Spa...	o.r.c	b.c.c	45	37	3	-	2.4		
	Scarborough ... ..	*	*	40	36	2	1	0.0		Malvern ... ..	m	m.b	47	37	6	0.2	0.2		
	Lowestoft ... ..	*	*	38	35	-	3	0.0		Ross-on-Wye ... ..	j.o.e.b.c	c.o.e.b.c	51	41	5	-	1.5		
England, E.	Felixstowe ... ..	ogq	ogqr	39	36	-	4	0.0	Wales.	Rhyl ... ..	b.c	b.c.c.b.c	50	40	1	-	3.1		
	Walton-on-Naze...									Colwyn Bay ... ..	*	*	50	44	4	-	4.2		
	Southend-on-Sea...	og.o	od	41	34	-	1	0.0		Llandudno ... ..	b.c	b.c	52	43	8	0.1	3.4		
										Aberystwyth ... ..	r.b.c	c.c.o	49	46	*	*	3.3		
England, S.E.	Margate ... ..	o	or	39	33	-	2	0.0	England, S.W.	Weymouth ... ..	*	*	50	42	2	2	0.3		
	Ramsgate ... ..	*	*	38	30	-	2	0.0		Teignmouth ... ..									
	Folkestone ... ..	o	d.c.o	41	36	-	2	0.5		Torquay ... ..	o.c	c.b.c.b	51	44	5	-	1.8		
	Hastings ... ..	or	o	43	36	1	3	0.0		Paignton ... ..	om	b.c.b	52	43	5	-	1.8		
	Eastbourne ... ..	or	ro	44	37	1	4	0.0		Penzance ... ..	b.b.c	b.c	52	47	8	-	5.3		
	Brighton ... ..	or.	o.c	45	37	3	2	0.0		Newquay ... ..	c.b	b.b.c.b	51	45	7	-	3.7		
	Worthing ... ..	rq	q	45	38	3	1	0.0		Bude ... ..	r.c.od	b.c.b.c	52	43	9	-	3.5		
	Littlehampton ...	*	*	47	44	2	-	0.0		Ilfracombe ... ..	op	c.b.c.b	49	44	4	0.2	1.9		
	Bournemouth ...	*	*	48	39	7	0.1	0.0		Weston-s-Mare ...	e.b.c	b.c	50	41	4	-	1.5		
	Tunbridge Wells ...	or.o	orm	42	34	1	1	0.0											

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
	7h-13h 11 <sup>th</sup>	13h-18h 11 <sup>th</sup>	18h-7h 12 <sup>th</sup>	7h-12 <sup>th</sup>				Day. 7h-18h	Night. 18h-7h	
†Houton Bay (Orkney)...	adm.ormoorth.qc.b.c	copco	orm.o		44	37	34	2	5	0.0
†Eskdalemuir ... ..								*	*	*
†Stranraer ... ..								*	*	*
†Lough Foyle ... ..								*	*	*
Valencia (Cahirciveen) ...	cp.b.c	b.c.o.b	b.c.b.c		48	38	35	1	1	1.9
†Anglesey (Llangefni) ...	c.op	b.c.c	c.t.l.r.c	o	53	44	41	-	4	4.3
Falmouth ... ..	b.c.c	b.c.b	c	c.o.	48	39	*	*	*	*
†Calshot (Hants) ... ..	c	o	c	c.o.	40	32	*	*	*	*
†Capel (Folkestone) ... ..	b.c.c.v	or	q.c.f	b.b.c.o.f				*	*	*
Aberdeen ... ..	om.op	om.c.b.m	b.m		44	40	36	1	1	0.0
†East Fortune ... ..	rq	b.b.c	c.o	b.c.c.	46	33	*	*	*	*
†Flamborough Head ... ..	rq	o	o	o am.	42	35	*	*	*	*
†Felixstowe ... ..	pg	p	pd.	o	41	35	*	*	*	*
†Cranwell (Lincs) ... ..	o	o	b.c.c.o	c.o.	43	34	*	*	*	*
†Bedford ... ..	q		b.c.c.m	om,q	44	37	*	*	*	*
Benson ... ..	r.am	o	b.c.o		45	38	34	1	-	*
London (Kew Obs.) ... ..	od.or.odam	om	om.cm.bcm.om		45	36	32	1	0.1	0.0

## BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog. g gloom.  
h hail. i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ❄ Lunar halo ☾  
Glazed frost ☁ Solar corona ☼  
Glazed roads ☐ Lunar corona ☾

## LONDON OBSERVATIONS.

	WEATHER.			Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	Rain-fall. mm.	Sun-shine to Sunset. Hours.	24 HOURS ENDED 9H G.M.T. 12 <sup>th</sup> .....		YESTERDAY.		TO-DAY.
	Morning	Afternoon.	Night.						12 h. G.M.T.	9 h. G.M.T.	12 h. G.M.T.	9 h. G.M.T.	
Greenwich (Royal Observatory)	o	q	od. o	44	37	35	0.3	0.0	92	85			
City (Banhill Row) ... ..	*	*	*	*	*	*	*	0.0	*	*			
Westminster (St. James's Park)	*	*	*	46	38	33	-	0.0	92	85			
" (Admiralty Arch)	omr.ond	ondofd	ond	46	39	*	0.1	0.0	100	87			
Camden Sq. (British Rainfall)	od. c.	o	*	45	38	36	0.3	*	97	86			
Kensington Palace ... ..	of.	of.	*	45	37	36	0.2	*	97 (18h)	87			

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Total Joules.	Average Rate. Milliwatts.	Maximum Rate.
47		1.6	5

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

12 <sup>th</sup> AND 13 <sup>th</sup> DECEMBER, 1919.			
Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.57	11.47	3.36
	7.58	11.41	3.36
Greenwich ...	7.58	11.54	3.49
	7.59	11.54	3.49
Wick ...	8.55	12.6	3.16
	8.56	12.6	3.16
Valencia ...	8.42	12.35	4.27
	8.43	12.35	4.27

## NOTES ON THE WEATHER OF YESTERDAY.

Over Eastern England there was practically no sunshine, but in the West records were fairly good, between 5 & 6 hours at Solihull & Penzance, & 4 hours at Holyhead, Colwyn Bay, Pembroke & Falmouth. Rain fell generally, the largest totals being 11 mm at Castlebay and 9 mm at Pembroke. The temperature reached 50° in the West of England only. Thunder was heard at Holyhead during the night.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 21,295 B SATURDAY, 13<sup>TH</sup> DECEMBER 1919.

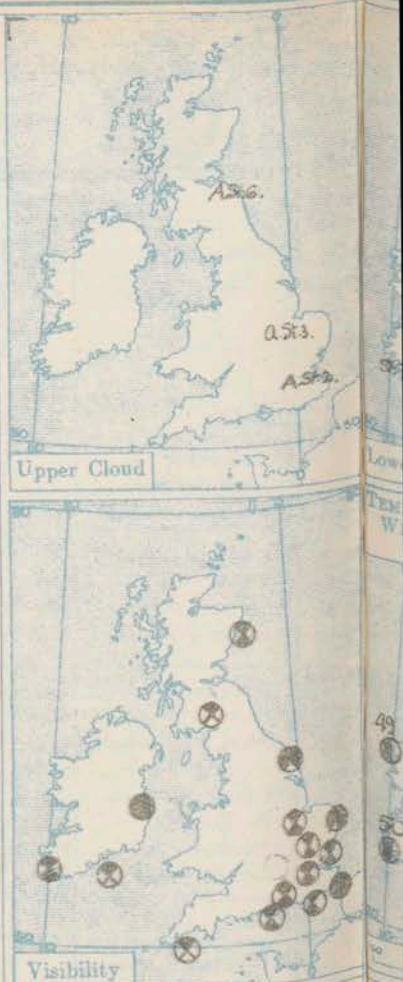
OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND. Direc.	Force 0-12.	Weather	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.	Upper Cloud	Sea	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND. Direc.	Force 0-12.	Weather	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.	Upper Cloud	Sea					
										Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.								Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.			
13H. G.M.T. OF 12 <sup>TH</sup>															18H. G.M.T. OF 12 <sup>TH</sup>														
†Houton B. (Orkney)	1006.4	+1	SSW	5	om	41	92	5	-	St.	10	-	-	*	1008.8	+3	SSW	4	om	42	98	5	-	St.	10	-	-	*	
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
Valencia (Cahire'n)	1006.2	0	S	4	b	49	75	8	2-3000	Cu	3	-	-	4	1005.9	-1	S	5	b	49	75	8	2-3000	Cu	2	Ci. Cu	1	4	
†Anglesey (Llangefni)	1008.9	-1	SSW	3	b	47	87	8	3-4000	St. Cu	1	A. St.	2	5	1011.1	+4	SSW	3	C	45	87	-	2-3000	St. Cu	8	-	-	5	
Falmouth ...	1011.1	+1	WNW	1	b	50	65	7	-	Cu. Nb	1	-	-	*	1014.3	+6	NW	3	bv	42	82	-	-	-	-	-	-	*	
†Calshot (Hants) ...	1013.4	+2	N	3	o	45	92	5	1½-2000	Cu	10	-	-	4	1014.5	+2	SSW	2	o	45	98	3	1½-2000	St.	10	-	-	3	
†Capel (Folkestone)	1014.7	0	-	0	oefz	38	98	0	2500	St.	10	-	-	0	1016.2	+1	-	0	of	39	98	1	2500	St.	10	-	-	0	
Aberdeen ...	1003.4	+1	SW	4	bcem	45	82	5	-	St. Cu	4	A. Cu	2	3	1005.8	+3	SS	3	bcem	45	87	4	-	St. Cu	6	-	-	3	
†East Fortune ...	1004.1	-1	S	5	bc	47	75	6	3-4000	St. Cu	3	A. St.	2	*	1006.8	+3	SSW	3	C	46	87	-	2-3000	St. Cu	8	-	-	*	
†Ramborough Hd.	1010.0	+1	SSW	5	om	43	92	5	1-1500	St.	8	A. St.	2	*	1012.0	+1	SSW	4	bz	42	98	5	-	-	A. St.	2	-	*	
†Felixstowe ...	1014.7	0	SSW	2	oe	40	98	4	1½-2000	Cu. Nb	10	-	-	2	1013.2	+2	S	2	oz	39	98	4	1½-1000	Cu. Nb	10	-	-	2	
†Cranwell (Lincs)	1011.4	+1	SSE	4	bc	45	87	6	1½-2000	St.	3	A. Cu	3	*	1014.2	+3	SSE	2	o	43	87	4	2-3000	St.	8	A. St.	2	*	
†Bedford ...	1012.7	0	SSW	2	of	45	82	2	1½-2000	St.	10	-	-	*	1014.4	+4	SSW	2	of	43	92	2	2-3000	St.	10	-	-	*	
Benson ...	1012.0	+1	SSE	3	C	46	87	5	-	-	-	-	-	*	1014.2	+2	S	3	o	44	92	5	-	Nb	10	-	-	*	
London (Kew Ob.)	1013.6	+1	SSW	2	om	45	87	4	1-1500	St. Cu	8	A. St.	2	*	1015.8	+4	S	1	om	43	92	3	1½-2000	St.	10	-	-	*	
1H. G.M.T. OF 13 <sup>TH</sup>															7H. G.M.T. OF 13 <sup>TH</sup>														
†Houton B. (Orkney)	1010.0	0	S	5	o	41	98	6	-	St.	10	-	-	*	1009.6	-1	S	3	o	37	87	6	-	St. Cu	10	-	-	*	
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
Valencia (Cahire'n)	1003.5	0	SSW	8	o	44	*	*	*	*	*	*	*	*	1002.0	0	S	4	C	50	92	5	1½-2000	St.	7	-	-	*	
†Anglesey (Llangefni)																													
Falmouth ...	1014.9	0	SW	2	bv	41	92	5	-	-	-	Ci. S	2	*	1014.0	-2	SSW	4	bv	47	75	7	-	Cu	2	-	-	*	
†Calshot (Hants) ...	1014.7	+2	S	2	o	44	98	2	1½-2000	St.	10	-	-	3	1017.1	+2	S	2	o	44	98	5	1½-2000	Nb	10	-	-	3	
†Capel (Folkestone)	1016.0	+1	-	0	ef	40	98	1	5-1000	St.	10	-	-	1	1020.2	+2	S	2	om	39	98	0	7500	St. Cu	10	-	-	†	
Aberdeen ...															1007.7	+1	SSE	5	om.	44	75	5	-	St. Cu	10	-	-	2	
†East Fortune ...	1008.9	+1	S	3	bc	45	82	-	2-3000	St. Cu	2	A. St.	3	*	1007.2	-3	S	6	o	44	75	7	1½-2000	Nb	3	A. St.	3	*	
†Ramborough Hd.	1013.4	+2	SSW	4	om	41	98	4	1-1500	St.	10	-	-	*	1014.9	+1	S	9	om	41	98	2	1-1500	St.	10	-	-	*	
†Felixstowe ...	1019.9	+2	S	2	o	38	97	5	1-1500	Cu. Nb	10	-	-	1	1020.1	+2	SSW	2	om.	40	98	4	1-1500	Cu. Nb	10	-	-	1	
†Cranwell (Lincs)	1015.7	+1	SSE	4	o	42	98	3	2-3000	St.	10	-	-	*	1020.4	0	SE	3	o	42	98	4	2-3000	St.	7	A. St.	3	*	
†Bedford ...	1016.2	0	SSW	3	o	43	92	3	2-3000	St.	10	-	-	*	1017.6	+2	S	3	od.	43	92	4	2-3000	St.	10	-	-	*	
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1016.8	+2	SSE	4	o	43	98	7	-	Cu	10	-	-	*	
London ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.7	+1	SSW	1	o	44	92	5	1½-2000	St. Cu	8	A. St.	2	*	
(M.O. at 11.)																													
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND. Direc.	Force 0-12.	Weather.	BAROMETER. at M.S.L. m.b.	TEMPERATURE. Temp. °F.	WIND. Direc.	Force 0-12.	Weather.	SEA 0-9.	RAINFALL mm.	TEMP. Max. °F.	WEATHER. Morning.	Night.	Sunshine Hours.													
	† Change in 3 hours.	† Change in 24 hours.	7H. G.M.T. OF 13 <sup>TH</sup>		24 HOURS ENDED 7H. 13 <sup>TH</sup>			13 <sup>TH</sup>		12 <sup>TH</sup>		12 <sup>TH</sup>		12 <sup>TH</sup>		12 <sup>TH</sup>													
Lerwick ...	1002.4	45	S	5	omg	1004.7	-1	46	+1	S	5	-	omg	4	0.4	46	40	omg	omg	omg	*								
Stornoway ...	998.2	47	SSW	4	o	996.4	-1	46	+1	S	7	-	odg	6	8	46	42	opg	op	odg	0.0								
Castlebay (Barra Is)	1000.4	48	WSW	5	bc	997.7	0	48	+3	S	5	-	od	6	4	49	45	op.c.op	p.c.p.bc	b.p.cd.	1.0								
Glasgow ...	1006.7	44	SW	4	b	1006.2	-1	44	+5	SSW	4	-	od	*	1	45	39	bc.opm	opg.bz	b.opf	0.0								
Malin Head ...	1011.1	45	SSW	3	bcem	998.2	+1	46	+6	SSW	4	SW	om	3	1	47	40	C	bc	omf	3.8								
Blacksod Point	1001.6	48	S	4	cg	997.6	+2	49	+1	SW	4	-	C	4	13	52	43	bcy	bcpq	ogf	*								
Roche's Point...	1009.5	48	SW	4	b	1005.4	-1	49	+2	SW	5	-	o	5	59	51	46	op.b	b.bc.b	b. of o.	*								
Birr Castle ...	1007.1	44	S	1	C	1001.4	*	47	+5	S	2	-	Y	*	10	48	40	C.	C.	C. of	2.8								
Donaghadee ...	1008.5	42	S	2	b	1006.6	-1	46	+5	SW	4	-	omf	3	6	48	41	bcp	bc	bcat	*								
Liverpool (Bidston)	1012.1	41	S	2	b	1011.9	0	37	-5	SE	4	-	bc	3	-	46	34	bc.b	bm	bx. bc	6.1								
Holyhead ...	1010.2	47	SW	4	b	1008.6	-2	45	0	SSW	6	-	cg	4	Trace	50	43	b.bc.b	b.bc.eg	b.p.b.	5.8								
Pembroke (St. Ann's Head)	1012.5	48	SSW	3	b	1011.5	-1	48	+1	SSW	5	-	o	4	-	49	47	bv	bv	cv. o.	6.5								
Scilly (St. Mary's)	1013.9	46	SW	1	bv	1012.6	-1	50	+5	S	5	S	C	4	-	51	45	b	bv	bc. c	7.5								
Jersey (St. Aubin)	1014.6	46	SSE	4	oem	1018.8	+1	43	-2	SSW	3	-	oe	3	-	46	41	oem	oem	oe	0.0								
Portland Bill ...	1012.8	49	S	4	o	1015.3	+1	48	+2	S	5	-	bc	4	1	44	46	C.or	r.c.o	C. bc	*								
Dungeness ...	1014.9	42	SW	2	o	1018.6	?	41	0	SSW	2	-	o	2	-	43	40	v.c.o	o	o	*								
Wick ...	1001.6	44	SSW	3																									

\* Air Ministry Station. \* Information for these columns not usually received. † The barometric change is expressed in half millibars. ‡ Longside † at 11.



# SUMMARY OF CONDITIONS AT 7 A.M. Saturday, 13th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-SW. 2-10	Moderate	Dull, local mist & drizzle.	Ord.	Smooth
2. E. England	Sly. 2-10	"	Dull, local mist and drizzle.	"	"
3. E. Midlands	S. 5-15	R.mild	Cloudy or dull.	"	"
4. W. Midlands	Sly. 5-15	Moderate	Fair to dull.	"	"
5. S.W. England	S-SW. 15-20	"	Fine to cloudy.	Good	Mod.
6. South Wales	S-SW. 15-20	"	Cloudy or dull.	Fair	"
7. North Wales	S-SW. 25-30	"	Cloudy, squally.	"	"
8. N.W. England	SE-S. 10-15	"	Fair to dull.	"	Slight
9. N. Midlands	S-SW. 5-15	R.mild	Fair to dull.	Ord.	"
10. N.E. England	S-SW. 5-15	Moderate	Fair to dull, misty.	Poor	Slight
11. E. Scotland	S-SW. 10-20	R.mild	Cloudy or dull, local mist.	Fair	Smooth
12. S.W. Scotland	S-SW. 10-15	Moderate	Dull, local drizzle.	Good	Slight
13. Isle of Man	SW. 15	"	Fair to dull.	Fair	"
14. N. & N.W. Scotland	S-SW. 10-20	R.mild	Dull, local mist & squalls.	"	"
15. Hebrides	S. 20-30	"	Dull, drizzling, squally.	"	Rough
16. Orkneys and Shetlands	S. 20-25	"	Dull, mist and squalls.	Poor	Mod.
17. N.W. Ireland	SW. 15	"	Cloudy	Fair	"
18. N.E. Ireland	S-SW. 15	"	Dull, misty, local rain.	"	Slight
19. S.E. Ireland	SE-S. 5-15	"	Dull, rainy, local squalls.	Poor	Mod.
20. S.W. Ireland	S-SW. 15-20	"	Cloudy or dull.	Fair	R.rough



GENERAL INFERENCE from observations received up to 9 a.m.

A deep depression is indicated near Iceland. A cloudy and unsettled type of weather is probable over the United Kingdom, with S. to SW. breezes, which will blow very strongly at times in the north and west.

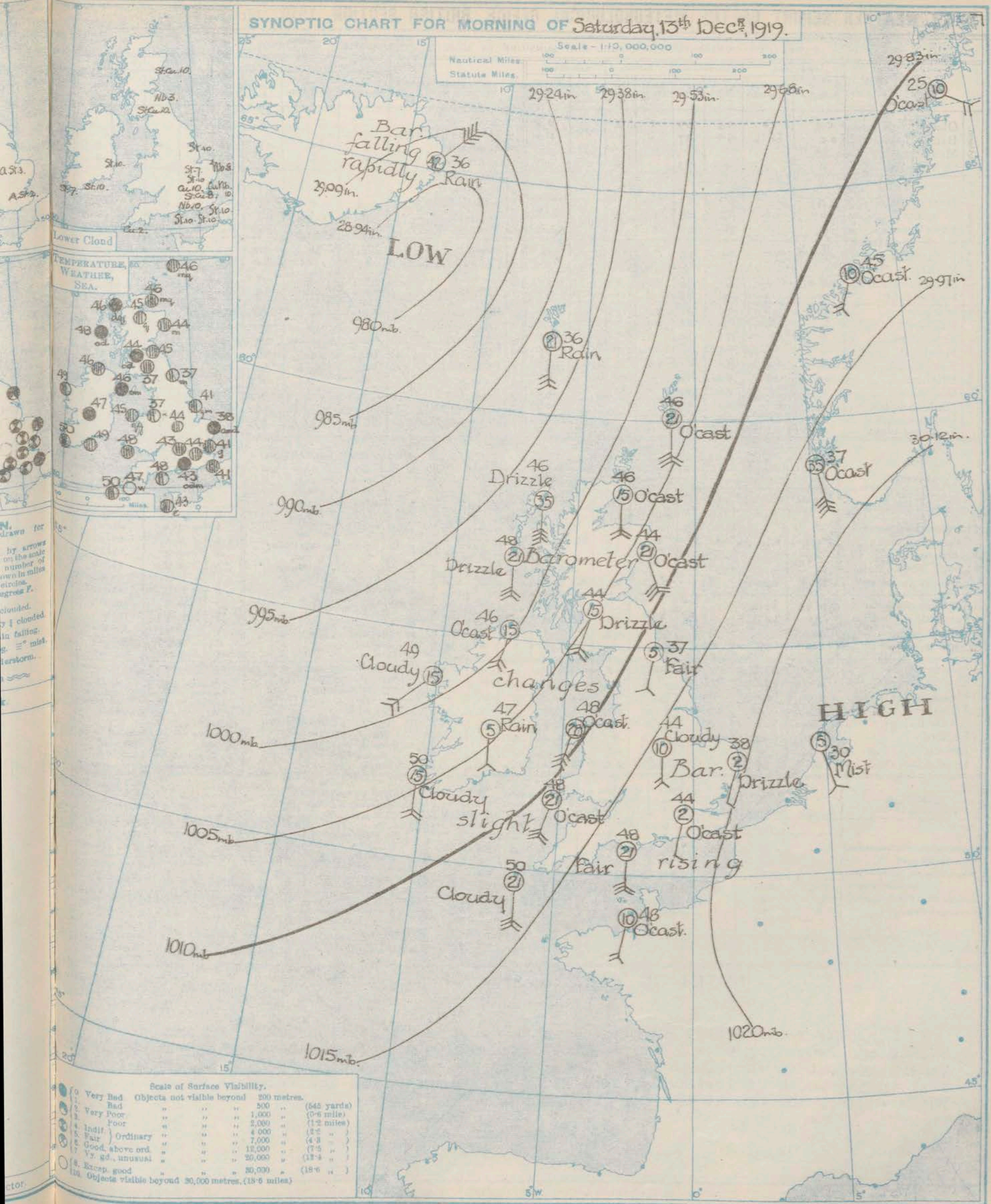
**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.  
**TEMPERATURE**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

Districts.	Forecasts for the 24 hours commencing 3 p.m. Saturday, 13th December, 1919
1. S.E. England	Fresh Sly. breeze. Mainly dull, clouds low, occasional rain, visibility poor. Normal temperature
2. E. England	
3. E. Midlands	
4. W. Midlands	Strong S. to SW. breeze. Considerable low cloud, some rain, good visibility. Mild.
5. S.W. England	
6. South Wales	Strong S. to SW. breezes. Mainly dull, clouds low, some rain. Visibility poor to fair. Rather mild.
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	Same as for 1-3
11. E. Scotland	
12. S.W. Scotland	Same as for 6-9
13. Isle of Man	
14. N. & N.W. Scotland	Wind SW., strong to a gale. Mainly dull, clouds low, rain at times. Visibility fair to good. Mild.
15. Hebrides	
16. Orkneys and Shetlands	
17. N.W. Ireland	
18. N.E. Ireland	Same as for 6-9
19. S.E. Ireland	
20. S.W. Ireland	Same as for 4-5



# SYNOPTIC CHART FOR MORNING OF Saturday, 13<sup>th</sup> Dec<sup>r</sup>, 1919.

Scale - 1:10,000,000  
Nautical Miles 100 200 300  
Statute Miles 100 200 300





# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 347 B

Saturday,  
13<sup>th</sup> DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 12 <sup>TH</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 11h-3h.	Day. 9h-17h. 3h-7h.	Sunrise to Sunset. 12 <sup>TH</sup>	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-9h. 11h-3h.	Day. 9h-17h. 3h-7h.	Sunrise to Sunset. 12 <sup>TH</sup>		
Scotland.	Oban ... ..	c.o	ro	48	39	1	2		0.0	England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	c.c	bc.b	44	37	-	-		1.4		Blackpool ... ..	c	bc	48	39	1	-		5.1
	Montrose ... ..										Southport ... ..	b	b	42	38	1	-		4.5
	St. Andrews ...	c	o	46	33	1	-		1.7										
England, N.E.	Harrogate ... ..	c.c	c.c.b	44	37	0.3	-		0.2	Midlands.	Buxton ... ..								
	Skegness ... ..	f.o.c	bm.o	43	36	1	1		1.0		Leamington Spa...	c.c	c.o	48	41	0.1	0.1		1.1
	Scarborough ...	*	*	44	40	1	-		0.0		Malvern ... ..	o	c.bc	46	39	1	0.4		0.0
											Ross-on-Wye ...	g.o.c	bc.cu.o.bc	51	44	2	-		1.6
England, E.	Felixstowe ... ..	ogm.	ogm.	41	39	-	0.2		0.0	Wales.	Rhyl ... ..	cp.c	bc.b	50	40	1	-		6.0
	Walton-on-Naze...										Colwyn Bay ... ..	*	*	51	42	5	-		6.6
	Southend-on-Sea...	od.o	o	41	36	0.1	-		0.0		Llandudno ... ..	b	b	51	39	1	-		6.3
	Lowestoft ... ..	*	*	42	36	-	-		0.0		Aberystwyth ...	r.o.c	c.bc	49	44	*	*		5.7
England, S.E.	Margate ... ..	ofm	oe	40	35	0.2	-		0.0	England, S.W.	Weymouth ... ..	*	*	51	47	0.2	-		4.7
	Ramsgate ... ..	b	b	40	35	0.1	-		0.0		Teignmouth ... ..								
	Folkestone ... ..	f	f	41	39	-	-		0.0		Torquay ... ..	c.opm	o.bc.bm	49	45	7	0.3		1.8
	Hastings ... ..	o	o	44	40	-	-		0.0		Paignton ... ..	bcf	bf	52	38	7	-		1.7
	Eastbourne ... ..	*	*	44	41	0.2	-		0.0		Penzance ... ..	b.bc	bc.b	51	43	2	-		6.7
	Brighton ... ..	od	od	44	43	-	-		0.0		Newquay ... ..	b	b	57	42	5	-		6.8
	Worthing ... ..	o	o	46	44	-	-		0.0		Bude ... ..	b	b	52	37	2	-		5.7
	Littlehampton ...	*	*	51	43	1	-		0.0		Ilfracombe ... ..	bc.b.bc	c.bc.bc	49	44	-	-		5.5
	Bournemouth ...	*	*	48	45	Trace	-		0.0		Weston-s-Mare ...	c.c.bc	bc.c	52	42	3	-		2.0
	Tunbridge Wells	o	o	42	39	-	-		0.0										

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.	THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	RAINFALL.		Sun. Hours.		No.	Limits of Velocity.	
	7h-18h.12 <sup>th</sup>	18h-18h.12 <sup>th</sup>	18h.12 <sup>th</sup> -1h.13 <sup>th</sup>	1h-7h.13 <sup>th</sup>				Day. 7h-18h.	Night. 18h-7h.				Statute miles per hour.	Metres per second.
†Houton Bay (Orkney)...	om.oro	adm.om	om.o	o	43	36	35	*	*	*	0	Less than 1	Less than 0.3	
Eskdalemuir ... ..								*	*	*	1	1-3	0.3-1.5	
†Stranraer ... ..								*	*	*	2	4-7	1.6-3.3	
†Lough Foyle ... ..								*	*	*	3	8-12	5.4-5.4	
Valencia (Cahirciveen) ...	bc.b	bp.c.b	bc. or. o.c		52	45	45	*	*	*	4	13-18	5.5-7.9	
†Anglesey (Llangefni) ...	b.b.c	bc.c	bbw	bw	43	38	41	*	*	*	5	19-24	8.0-10.7	
Falmouth ... ..	b	bc.b.v	co	o	45	?	?	*	*	*	6	25-31	10.8-13.8	
†Calshot (Hants) ... ..	o	o	ocf	of	?	?	?	*	*	*	7	32-38	13.9-17.1	
†Capel (Folkestone)...	sef	of	ocf	of	?	?	?	*	*	*	8	39-46	17.2-20.7	
Aberdeen ... ..	bcm	cm.bcm	bcm. oz		46	42	39	*	*	*	9	47-64	20.8-24.4	
†East Fortune ... ..	b.b.c	bc.c	bcc @	@ q	47	42	*	*	*	*	10	55-63	24.5-28.4	
†Fleambridge Head...	c.oz	om	ome	fm.e	43	40	*	*	*	*	11	64-76	28.5-33.5	
†Felixstowe ... ..	ez	efe.	oc	e. z	42	38	*	*	*	*	12	Above 76	33.6 or above	
†Cranwell (Lincs) ...	c.orn	c.o	oz	z p.	46	37	*	*	*	*	<b>SYMBOLS—</b> Aurora ☄ Solar halo ☀ Rime ❄ Lunar halo ☾ Glazed frost ❄ Solar corona ☉ Glazed roads ❄ Lunar corona ☾			
†Bedford ... ..	c.oz	c.oz	coz	m <sub>2</sub> q	?	?	*	*	*	*				
Benson ... ..	o.c	o	o	o	47	42	40	*	*	*				
London (Kew Obsy.) ...	om	om. and om	om.o		45	43	41	Trace	Trace	0.0				

LONDON. OBSERVATIONS.				WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).		TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.				
				Morning	Afternoon	Night						15 h. G.M.T.	11 h. G.M.T.			13 <sup>th</sup> AND 14 <sup>th</sup> DECEMBER, 1919				
24 HOURS ENDED 9h G.M.T. 13 <sup>th</sup> .....											YESTERDAY.		TO-DAY.		Vertical Component of Solar Radiation per Square Centimetre during yesterday.		Stations.			
																	Sunrise. Noon. Sunset.			
															Total.....59..... Joules.		G.M.T. G.M.T. G.M.T.			
Greenwich (Royal Observatory)	0	0	0	44	40	33	-	0.0	86	90	59		Joules.		Yarmouth...					
City (Bunhill Row) ... ..	*	*	*	*	*	*	*	0.0	*	*					7.58 11.47 3.36					
Westminster (St. James's Park)	*	*	*	48	44	40	-	0.0	84	88	59		Joules.		Greenwich					
" (Admiralty Arch)	om	om	om	47	39	*	*	0.0	93	97					7.59 11.54 3.49					
Camden Sq. (British Rainfall)	0	0	*	45	43	41	-	*	88	92	59		Joules.		Wick ...					
Kensington Palace ... ..	0	0	*	45	42	42	-	*	*	94					8.56 12.6 3.16					
															Average Rate. 2.1		Valencia ...			
																	8.57 12.7 3.16			
															Maximum Rate. 3		8.43 12.35 4.27			
																	8.44 12.36 4.27			





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

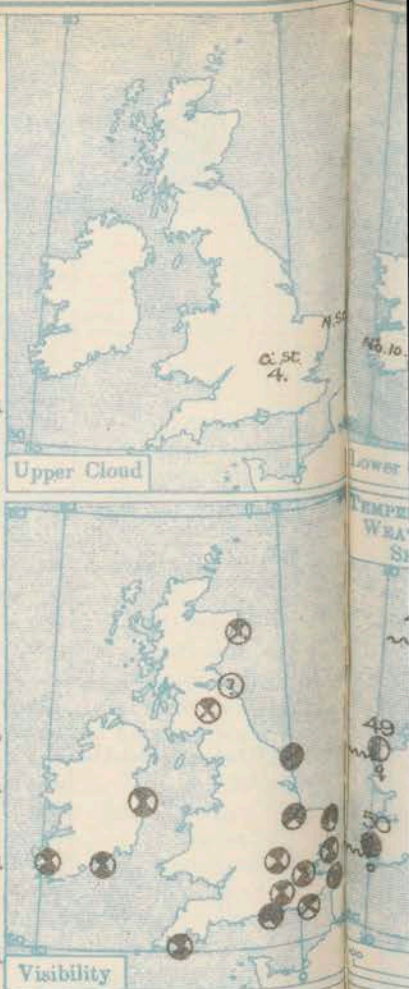
No. 21396.B SUNDAY, 14<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 15H.																													
STATIONS	BAROM.	†	WIND.	Weather	TEMP.	Humidity.	Visibility.	Height	Low Cloud.	Upper Cloud.	Sea	BAROM.	†	WIND.	Weather	TEMP.	Humidity.	Visibility.	Height	Low Cloud.	Upper Cloud.	Sea							
	at M.S.L. m.b.	Change in 3 hours.	Dir.		Force 0-12.	°F.	%	0-10.	Feet.	Form.	Amt. 0-10.	0-9.	at M.S.L. m.b.	Change in 3 hours.		Dir.	Force 0-12.	°F.	%	0-10.	Feet.	Form.	Amt. 0-10.	0-9.					
13H. G.M.T. OF 13 <sup>TH</sup>												15H. G.M.T. OF 13 <sup>TH</sup>																	
†Houton B. (Orkney)	1009.3	-1	SSE	3	adm	38	98	4	-	Nb	10	-	-	*	1005.0	-4	SE	4	adm	41	92	4	-	Nb	10	-	-	*	
†Eskdalemuir ...														*													*		
†Stranraer ...														*													*		
†Lough Foyle ...														*													*		
†Valencia (Cahire'n)	997.7	-6	S	6	c	50	75	7	2-3000	cu	8	-	-	5	1005.7	+8	SW	4	c	46	82	7	2-3000	St cu	8	-	-	4	
†Anglesey (Llangefni)	1008.8	-4	S	6	r	44	92	2	1-1500	Nb	10	-	-	7	1006.1	-2	S	6	r	46	98	-	1-1500	Nb	10	-	-	7	
†Falmouth ...	1012.6	-3	S	5	r	47	92	4	-	Nb	10	-	-	*	1013.3	+2	WSW	4	adm	50	92	1	-	cu	10	-	-	*	
†Calshot (Hants) ...	1018.2	-1	SW	1	o	46	92	4	1-1500	St	10	-	-	3	1017.7	+1	S	2	o	46	98	4	1-2000	St	10	-	-	4	
†Capel (Folkestone)	1020.2	-1	SSW	4	cf	40	98	0	3-4000	Nb	10	-	-	3	1020.6	+1	SSW	1	fz	40	98	1	<500	St	9	-	-	2	
1H. G.M.T. OF 14 <sup>TH</sup>																													
†Houton B. (Orkney)	1010.8	+10	SSW	5	om	39	87	6	-	St cu	7	As	3	*	1014.9	+3	SE	4	o	39	92	7	-	St cu	10	-	-	*	
†Eskdalemuir ...														*													*		
†Stranraer ...														*													*		
†Lough Foyle ...														*													*		
†Valencia (Cahire'n)	1007.5	0	S	3	bc	47	*	*	*	*	*	*	*	*	1001.4	-6	S	7	of	50	87	5	1-2000	Nb	10	-	-	*	
†Anglesey (Llangefni)	1016.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4	-	Nb	10	-	-	*	
†Falmouth ...	1018.6	+1	W	3	e	47	98	3	2-3000	St	8	-	-	*	1019.1	+1	W	2	o	46	98	2	1-2000	St	10	-	-	3	
†Calshot (Hants) ...	1021.3	+2	S	5	ov	42	98	4	1-1000	St	10	-	-	3	1022.2	+2	SSW	3	of	44	98	0	1-1000	St cu	10	-	-	2	
†Capel (Folkestone)														*													*		
†Aberdeen ...	1001.5	+10	WSW	7	b	43	75	-	2-3000	Nb	2	-	-	*	1012.2	+9	S	5	b	40	82	7	-	St cu	1	-	-	4	
†East Fortune ...														*													*		
†Falmouth ...	1015.5	+1	SW	1	bw	41	87	4	-	-	As	3	*		1015.4	-2	SSE	4	o	47	92	4</							



# SUMMARY OF CONDITIONS AT 7 A.M. Sunday, 14th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-SSW 5-10	Rather warm	Dull, fog locally.	Poor	Mod.
2. E. England	S. 5-10	Mod.	Dull	Fair	Slight
3. E. Midlands	S. 2-5	Rather warm	Dull, mist locally	Ord.	-
4. W. Midlands	S. 5-10	Mod.	Dull	-	-
5. S.W. England	S. 10-15	Mod.	Fair to dull	Ord.	-
6. South Wales	SE. 15	Mod.	Fine.	Good	R. rough
7. North Wales	S. 15-20	Mod.	Fine	Good	Mod.
8. N.W. England	S. 10-15	Mod.	Fair.	Ord.	Slight
9. N. Midlands	S. 2-5	Mod.	Dull	Ord.	-
10. N.E. England	SW. 5-10	Mod.	Cloudy to dull, local	Poor	Slight
11. E. Scotland	S. 10-20	Mod.	Fair to fine. (fog.)	Good	Mod.
12. S.W. Scotland	S. 5-10	Mod.	Fair to fine	Good	Slight
13. Isle of Man	S. 10	Mod.	Fair to cloudy.	Ord.	Slight
14. N. & N.W. Scotland	S. 5.	Mod.	Fair	Ord.	Slight
15. Hebrides	S. 25-30	Mod.	Dull	Ord.	R. rough
16. Orkneys and Shetlands	S. 25-30	R. warm	Dull	Ord.	Mod.
17. N.W. Ireland	S. 25-30	R. warm	Cloudy	Fair	R. rough
18. N.E. Ireland	S. 15-20	Mod.	Cloudy, local mist	Poor	Slight
19. S.E. Ireland	S. 20-25	R. Warm	Dull	Ord.	R. rough
20. S.W. Ireland	S. 25-35	R. warm	Dull, rain locally	Ord.	Rough



GENERAL INFERENCE from observations received up to 9 a.m.

General Inference from Observations at 7 a.m.

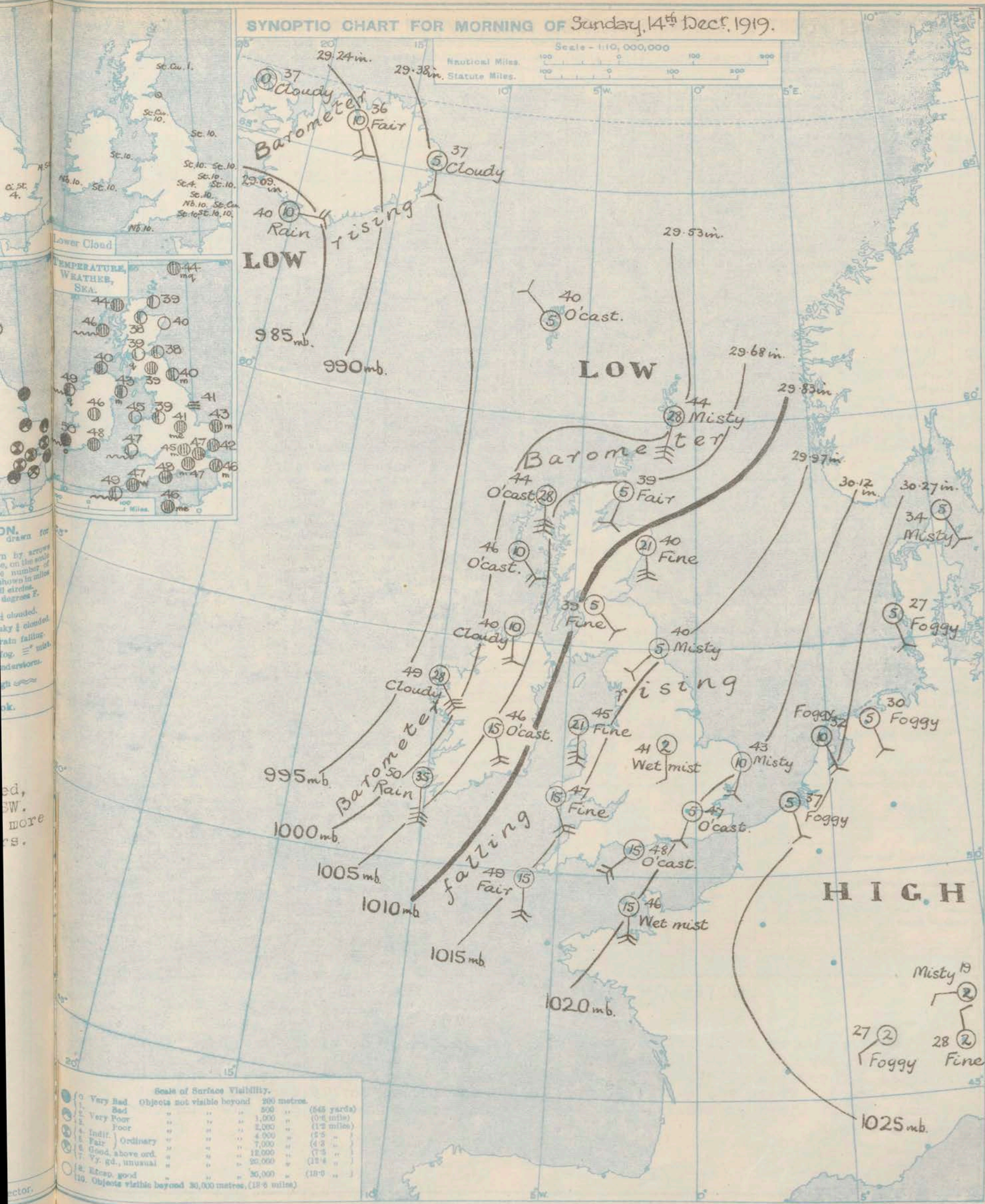
A new secondary depression has appeared off the West Coast of Ireland and will probably move NNE. Mild and cloudy to showery weather is probable in all districts with S. or SW. breezes, which will reach gale force on our Western Coasts.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 1/4 clouded.  
 ⊙ sky 1/2 clouded. ⊙ sky 3/4 clouded.  
 ⊖ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

Districts.	Forecasts for the 24 hours commencing 3 p.m. Sunday, 14th December, 1919.	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh southerly breezes; much low cloud, poor visibility, occasional drizzle; rather mild.	Unsettled, with S. or SW. breezes for more than 24 hours.
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	Strong S. to SW. breezes, a gale locally; sky half to wholly covered with low cloud, visibility poor, but improving later, rain at times; mild.	



SYNOPTIC CHART FOR MORNING OF Sunday, 14<sup>th</sup> Decr. 1919.



#### Scale of Surface Visibility.

Scale of Surface Visibility.				
No.	Very Bad	Bad	Objects not visible beyond	200 metres.
1	Very Poor	"	"	500 "
2	Poor	"	"	1,000 "
3	Indif.	"	"	2,000 "
4	Fair	"	"	4,000 "
5	Good, above ord.	"	"	7,000 "
6	Very gd., unusual	"	"	12,000 "
7	Escep. good	"	"	20,000 "
8	Objects visible beyond	"	"	30,000 "
9	Objects visible beyond	"	"	30,000 metres, (18-6 miles)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 348 B

Sunday,  
14<sup>th</sup> DECEMBER.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 13<sup>th</sup>

WEATHER, TEMPERATURE, RAINFALL, AND SUNSHINE.																							
STATIONS.				WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.				WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
				Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-19h. 12 <sup>th</sup>	Day. 9h-17h. 13 <sup>th</sup>	Sunrise to Sun- set 13 <sup>th</sup>	Forenoon.					Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-19h. 12 <sup>th</sup>	Day. 9h-17h. 13 <sup>th</sup>	Sunrise in Sun- set 13 <sup>th</sup>		
Scotland.	Oban ... ..	c. or.	or	48	42	1	1		0.0	England, N.W.	Douglas (I.O.M.)												
	Banff ... ..	o.	c. o	45	40	-	-		0.0			Blackpool ... ..											
	Montrose ... ..											Southport ... ..	bc. c. o	or. o	46	35	-	2					0.0
	St. Andrews ... ..																						
England, N.E.	Scarborough									Midlands.	Buxton ... ..												
	Harrogate ... ..	o. c.	op	44	34	-	0.2		0.0			Leamington Spa ...	o. c.	o. c.	46	44	-	-					0.0
	Skegness ... ..											Malvern ... ..											
												Ross-on-Wye ... ..	o. c. o	ogp. od	48	36	trace	trace					0.1
England, E.	Felixstowe ... ..	ogm.	ogmd	42	39	-	0.3		0.0	Wales.	Rhyl ... ..												
	Walton-on-Naze ...											Colwyn Bay ... ..											
	Southend-on-Sea ...	o	o	41	39	-	-		0.0			Llandudno ... ..	op	or	48	39	-	2					0.0
	Lowestoft ... ..											Aberystwyth ... ..	o. c.	c. o	48	45	-	-					0.0
England, S.E.	Margate ... ..	o	oe	43	38	0.1	-		0.0	England, S.W.	Weymouth ... ..												
	Ramsgate ... ..	o	o	42	40	-	-		0.0			Teignmouth ... ..											
	Folkestone ... ..	o	f	42	40	-	-		0.0			Torquay ... ..	o. c. o	or	49	36	-	2					0.0
	Hastings ... ..	o	o	43	44	-	-		0.0			Paignton ... ..	c.	c. op.	49	33	-	1					0.1
	Eastbourne ... ..	o	o	45	41	-	-		0.0			Penzance ... ..											
	Brighton ... ..											Newquay ... ..											
	Worthing ... ..	o	o	46	42	-	-		0.0			Bude ... ..											
	Littlehampton ...	og	og	45	43	-	-		0.0			Ilfracombe ... ..											
	Bournemouth ...	o	o	49	45	-	-		0.0			Weston-s-Mare ...											
	Tonbridge Wells ...	o	o	42	39	-	-		0.0														

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER.				Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	RAINFALL.		Sun. Hours.
	7h-13h 13 <sup>th</sup>	13h-18h 13 <sup>th</sup>	18h-12h 14 <sup>th</sup>	1h-7h 14 <sup>th</sup>				Day. 7h-18h	Night. 18h-7h	
† Houton Bay (Orkney) ...	om. adn	orm	ory. bco	o	45	37	36	13	4	0.0
† Eskdalemuir ... ..										
† Stranraer ... ..										
† Lough Foyle ... ..										
Valencia (Cahirciveen) ...	bc. c.	c. op. c.	bc. c. or		51	43	40	2	1	0.1
† Anglesey (Llangefni) ...	ri. q.	ri. q.	bm. bbw	bu. ow	50	40	31	9	-	0.0
Falmouth ... ..	bc. c. or	or. adm	bm. bbw	bu. ow	50	40	31	9	-	0.0
† Calshot (Hants) ... ..	c. o	c. o	p. co	c. o	47	43				
† Capel (Folkestone) ... ..	js	c. oz.	oe	of.	44	39				
Aberdeen ... ..	oz. q.	om. qd	og. r. cb.		45	39	34	0.1	4	0.0
† East Fortune ... ..	qr	c. or.	p. q.	q. b.	46	40				
† Flamborough Head ... ..	ri.	ca.								
† Felixstowe ... ..	ez	c. oz.	c. pd	hd.	43	40				
† Cranwell (Lincs) ... ..	c. o. c.	c. o.	p. bcc	bc. c. h.	46	42				
† Bedford ... ..	oz	c. og.			46	42				
Benson ... ..	o.	o	c	c	46	42	36	-	0.3	
London (Kew Obs.) ... ..	o. om.	s	od. o		47	42	36	Trace	0.1	0.0

## BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog.  
g gloom.  
h hail.  
i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 1=moderate, 2=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ❄ Lunar halo ☾  
Glazed frost ☁ Solar corona ☉  
Glazed roads ☁ Lunar corona ☾

## LONDON OBSERVATIONS.

3. i	WEATHER.		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass. °F.	Rain-fall. mm.	Sun-shine to Sunset. Hours.	Humidity %		
	Morning	Afternoon						15 h. G.M.T.	9 h. G.M.T.	
	24 HOURS ENDED 24 G.M.T. 14 <sup>th</sup>							YESTERDAY	TODAY	
Greenwich (Royal Observatory)	o	o	o. or.	47	42	40	1	0.0	86	94
City (Bunhill Row) ... ..										
Westminster (St. James's Park)										
Admiralty Arch	odm. om	om	od. o.	48	44		0.1	0.0	83	93
Camden Sq. (British Rainfall)	o	o		48	43	40	0.3		88	91
Kensington Palace ... ..	o	o		48	42	41	0.2			97

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	
Total .....	Joules.
Average Rate.	Milliwatts.
Maximum Rate.	

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

14 <sup>th</sup> AND 15 <sup>th</sup> DECEMBER, 1919.			
Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ...	7.59	11.48	3.36
Greenwich	8.0	11.48	3.36
Wick ...	8.57	12.7	3.16
Valencia ...	8.44	12.36	4.27

## NOTES ON THE WEATHER OF YESTERDAY.

Some heavy falls of rain were recorded, 31 mm at Castlebay & Wick, 19 mm at Stornoway and 17 mm at Eskdalemuir. In the East of England there was only a trace. There was practically no sunshine except in the Channel Islands (3 hours at Jersey). There was some fog round Dungeness and at Scilly and Roches Point, and mist at times generally. The temperature remained rather high for the time of the year.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21207.B MONDAY, 15<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																													
STATIONS.	BAROM.	↑	WIND.		TEMP.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea	BAROM.	↑	WIND.		TEMP.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea							
	at M.S.L. m.b.	Change in 3 hours.	Direc.	Force 0-12.								at M.S.L. m.b.	Change in 3 hours.	Direc.	Force 0-12.								Form.	Amt. 0-10.	Form.	Amt. 0-10.	0-9.		
13H. G.M.T. OF 14 <sup>TH</sup>												18H. G.M.T. OF 14 <sup>TH</sup>																	
†Houton B. (Orkney)	1013.6	-1	SSE	3	c	41	82	6	1½-2000	Fr. Cu	3	ci. St	5	*	1011.5	-3	SSE	2	c	40	87	6	-	sr.	8	-	-	*	
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
†Valencia (Cahire'n)	999.2	-6	SSE	6	o	51	92	7	1½-2000	sr.	10	-	-	5	998.9	-10	SSE	7	opq	52	87	7	-	sr.	10	-	-	5	
†Anglesey (Llangefni)	1011.8	-4	S	5	oq	49	75	8	3-4000	Nb	8	Asr	1	6	1008.2	-4	SSE	4	o	48	75	9	2-3000	St Cu	10	-	-	4	
†Falmouth ...	1012.1	-5	SE	7	oq	50	87	7	-	cu. Nb	10	-	-	*	1008.4	-4	SE	7	oq	49	92	3	-	Nb	10	-	-	*	
†Calshot (Hants) ...	1018.5	-3	S	3	o	46	92	3	1-1500	St	10	-	-	3															
†Capel (Folkestone)	1021.8	-1	S	2	cf	41	97	0	<500	St	10	-	-	1	1019.4	-3	S	3	o	38	98	5	1½-2000	sr.	10	-	-	3	
Aberdeen ...	1013.1	-1	SSE	4	cf	45	82	6	-	St	1	2-6	6	4	1012.2	-1	SSE	4	em	44	92	6	-	St	8	-	-	4	
†East Fortune ...	1013.3	0	ENE	1	c	41	82	5	2-3000	St Cu	4	Asr	4	*	1011.5	-1	SE	3	c	40	82	9	2-3000	St Cu	8	-	-	*	
†Falmorough Hd.	1017.5	-2	S	4	oq	40	97	0	<500	St	10	-	-	*	1016.1	0	SE	5	om	43	98	5	1-1500	sr.	10	-	-	*	
†Felixstowe ...	1021.2	-1	S	2	o	43	97	3	1-1500	cu. Nb	10	-	-	2	1019.5	-2	SW	3	cf	42	97	2	1-1000	cu. Nb	10	-	-	3	
†Cranwell (Lincs)	1018.4	-2	SSE	3	o	42	97	6	1-1500	St Cu	9	Asr	1	*	1016.3	-2	SSE	4	o	45	98	5	1-1500	sr.	10	-	-	*	
†Bedford ...	1019.0	-1	S	2	om	49	87	3	1-1000	St	10	-	-	*	1016.3	-1	S	2	od	45	92	1	<500	St	10	-	-	*	
Benson ...	1017.5	-2	S	3	o	47	92	5	1-1500	St Cu	6	ci	4	*	1014.6	-3	SSE	5	o	45	92	5	-	St	10	-	-	*	
London (Kew Ob.)	1018.6	-3	S	3	om	48	87	4	2-3000	St Cu	10	-	-	*	1016.5	-3	SSE	3	om	45	92	4	-	sr.	10	-	-	*	
1H. G.M.T. OF 15 <sup>TH</sup>												7H. G.M.T. OF 15 <sup>TH</sup>																	
†Houton B. (Orkney)	1004.4	-7	SSE	5	omc	44	87	3	-	St Cu	10	-	-	*	1002.3	-1	SSE	4	om	39	92	4	-	Nb	10	-	-	*	
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
†Valencia (Cahire'n)	996.0	+3	SSW	4	bc	44	*	*	*	*	*	*	*	*	995.5	0	SSE	3	bc	43	87	3	-	cu	2	ci. St	2	*	
†Anglesey (Llangefni)																													
†Falmouth ...	1002.3	-5	SSE	5	oq	49	92	5	-	Nb	10	-	-	*	1001.8	0	WSW	2	oq, o	44	97	1	-	St Cu	9	-	-	*	
†Calshot (Hants) ...	1008.3	-2	S	5	om	44	98	2	1½-2000	Nb	10	-	-	3	1006.2	-2	SSW	4	o	46	92	4	3-4000	St	10	-	-	4	
†Capel (Folkestone)	1016.6	-4	SSE	5	oc	38	98	2	1-1500	St Cu	10	-	-	3	1014.0	-3	S	6	c	39	92	6	1-1000	St	5	Asr	3	3	
Aberdeen ...																													
†East Fortune ...																													
†Falmorough Hd.	1011.0	-5	SSE	6	oq	41	92	5	1½-2000	St	10	-	-	*	1007.2	-5	SSE	7	oq	41	97	4	1-1000	St	10	-	-	*	
†Felixstowe ...	1014.9	-4	SSW	4	o	40	98	3	1-1500	cu. Nb	10	-	-	4	1010.1	-1	SW	5	of	40	97	3	1-1000	St Cu	9	-	-	2	
†Cranwell (Lincs)	1010.8	-3	SE	5	o	39	92	4	2-3000	St	10	-	-	*	1011.5	0	SE	4	o	39	97	4	2-3000	St	10	-	-	*	
†Bedford ...	1010.7	-4	S	4	oq	41	97	2	1½-2000	St	10	-	-	*	1007.4	-2	SE	3	od	42	92	1	<500	St	10	-	-	*	
Benson ...																													
London ...	1010.3	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.7	-2	SE	4	o	43	97	3	-	St Cu	10	-	-	*	
(M.O. 31 14)															1007.9	-2	SSE	3	o	43	87	5	1½-2000	St Cu	10	-	-	*	
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																													
STATIONS.	BAROM.	TEMP.	WIND.		WEATHER.	BAROMETER.		TEMPERATURE.		WIND.		Direc. of Upper Cloud.	Weather.	Sea	Rainfall mm.	TEMP.			WEATHER.		Sunshine Hours.								
	at M.S.L. m.b.	°F.	Direc.	Force		at M.S.L. m.b.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Direc.	Force 0-12.					Max. °F.	Min. °F.	Morning.	Afternoon.	Night.									
18H. G.M.T. OF 14 <sup>TH</sup>												7H. G.M.T. OF 15 <sup>TH</sup>																	
Lerwick ...	1011.3	45	SSE	7	o	1008.8	-3	44	0	S	8	-	omq	6	-	45	41	omq	omq	omq	*								
Stornoway ...	1001.9	48	S	7	opq	996.0	+3	41	-3	S	5	-	oq	4	5	48	43	oq	opq	opq	0.0								
Castlebay (Barra)	1001.0	48	SE	6	o	995.0	?	46	SE	5	-	-	o	6	3	49	41	op	op	op bc	0.0								
Glasgow ...	1009.5	44	SE	3	oz	1000.9	-2	41	+2	SE	3	-	od	*	1	45	37	b. bc. c2	o	ogodp	0.0								
Malin Head ...	998.1	48	S	5	c	994.7	0	41	+1	S	3	5	c	4	2	51	36	om	om	c	0.0								
Blacksod Point	992.9	51	SSE	6	oq	992.7	+2	44	-5	S	2	-	bc	1	?	51	40	bcq	oro	bcq bc	*								
Roche's Point..	997.8	50	SSE	8	or	997.6	0	47	-1	WSW	2	-	bc	4	8	51	45	om	omr	ot	*								
Birr Castle ...	997.2	49	SE	4	o	996.8	*	38	-8	S	1	-	bc	*	8	51	38	c, o	o, cq, bc	bc	0.0								
Donaghadee ...	996.6	49	S	4	omq	994.4	-2	44	+1	WSW	2	-	bc	2	14	49	41	omq	omq	omq+	*								
Liverpool (Bidston)	1010.8	46	SE	4	o	1002.3	-1	43	+4	SE	4	-	oq	6	Trace	47	39	om	cu. o	opq	0.0								
Holyhead ...	1007.7	48	S	5	o	999.5	0	46	+1	SW	4	-	bc	1	1	50	43	b. bc. c	c. o. bc. o	op bc	1.5								
Pembroke (St. Ann's Head)	1007.1	48	SSE	5	o	1000.8	+3	47	0	SSW	3	-	bc	5	7	49	46	c. o	o	ogt c	0.0								
Silly (St. Mary's)	1006.0	50	SSE	6	omd	1001.2	0	46	-1	SW	1	SW	c	4	3	51	48	omd	omd	om. c	0.0								
Jersey (St. Aubin)	1015.3	44	SSE	5	c	1006.1	-1	47	+1	S	4	-	o	4	3	47	43	oem. oe	oe. c	ogt. o	0.0								
Portland Bill ...	1013.1	-7	SSW	6	o	1003.7	+1	48	0	SSE	6	-	oq	4	1	50	43	op	o	ogp	*								
Dungeness ...						1005.9	*	41	-5	S	5	S	b	4	Trace	46	40			o. c. o	*								
Wick ...	1008.4	45	SSE	5	omq	1001.0	-3	44	+5	S	7	-	omq	5	-	45	38	bcq	bc. omq	omq	*								
Nairn ...	1006.3	45	S	3	c	999.6	*	45	+7	S	1	-	oq	1	-	47	38	bcq	cqe	cq. go	0.0								
Leith ...	1010.5	43	SE	1	om	1001.0	-1	42	+4	SE	2	-	om	2	Trace	47	38	bc. c. o	omo	om. ot	*								
Tynemouth ...	1014.0	44	SSW	2	o	1003.8	-7	41	+1	S	5	-	mq	3	-	45	38	bc. m	om	cq. omq	*								
Spurn Head ...	1016.3	43	S	4	o	1007.0	-5	42	+1	SSE	5	-	bcq	4	-	44	39	om	bc	og	0.0								
Yarmouth (Gorleston)	1018.6	42	S	3	o	1010.7	-4	41	-2	SSE	6	-	bc	5	Trace	46	39	om. om	omd	om. og	0.0								
Clacton-on-Sea	1018.9	42	SSE	4	o	1010.1	-3	41	-1	SE	5	-	bc	4	-	43	40	ogm	ogm	omd og	0.0								
Nottingham ...	1015.0	47	SSE	3	r	1006.2	*	42	+1	SE	2	-	o	*	Trace	48	40	om	o	od	0.0								

† Air Ministry Station.

\* Information for these columns not usually received.

† The barometrical change is expressed in half millibars. ‡ Longitude at 1



# SUMMARY OF CONDITIONS AT 7 A.M. Monday, 15th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-SE 15-20	Mod.	Dull, to cloudy, local drizzle.	Var.	Mod.
2. E. England	SSE. 15-20	Mod.	Fair to dull, some mist.	Poor	Mod.
3. E. Midlands	SE. 10-15	Mod.	Dull.	Poor	-
4. W. Midlands	S-SE. 10-15	Mod.	Cloudy, some drizzle.	Poor	-
5. S.W. England	SW-S. 3-20	Mod.	Cloudy or dull.	Poor	Mod.
6. South Wales	S-SW 10-15	Mod.	Fair generally.	Fair	Mod.
7. North Wales	S-SW 5-10	Mod.	Fair generally.	Var.	Slight
8. N.W. England	S-SE 15.	Mod.	Overcast, drizzle.	Poor.	Slight
9. N. Midlands	S-SE 10-20	Mod.	Dull, local drizzle and mist.	Poor	-
10. N.E. England	S. 20-30	Mod.	Fair to dull, squally, misty.	Poor	Slight
11. E. Scotland	S-SE 10-20	r.mild	Dull, local rain and squalls.	Ord.	r.rough
12. S.W. Scotland	SE. 10-15	Mod.	Dull, rain, local mist.	Ord.	Slight
13. Isle of Man	S-SW 5-15	Mod.	Fair to dull.	Ord.	Smooth
14. N.&N.W.Scot-land	S. 20-30	r.mild	Dull, local mist and rain	Poor	r.rough
15. Hebrides	S. 15-20	Mod.	Dull, local rain and squalls.	Ord.	Mod.
16. Orkneys and Shetlands	S. 30-40	r.mild	Dull, misty, squally.	Poor	rough
17. N.W. Ireland	S. 5-10	Mod.	Fair	Good	Slight
18. N.E. Ireland	S-SW 5-10	Mod.	Fair or cloudy, local mist.	Ord.	Slight
19. S.E. Ireland	S. 5-15-	Mod.	Fair to dull.	Ord.	Mod.
20. S.W. Ireland	S-SW 5-10	Mod.	Fair to dull.	V.good	Mod.



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. K thunderstorm.  
**SEA DISTURBANCE.**  
 Rough High

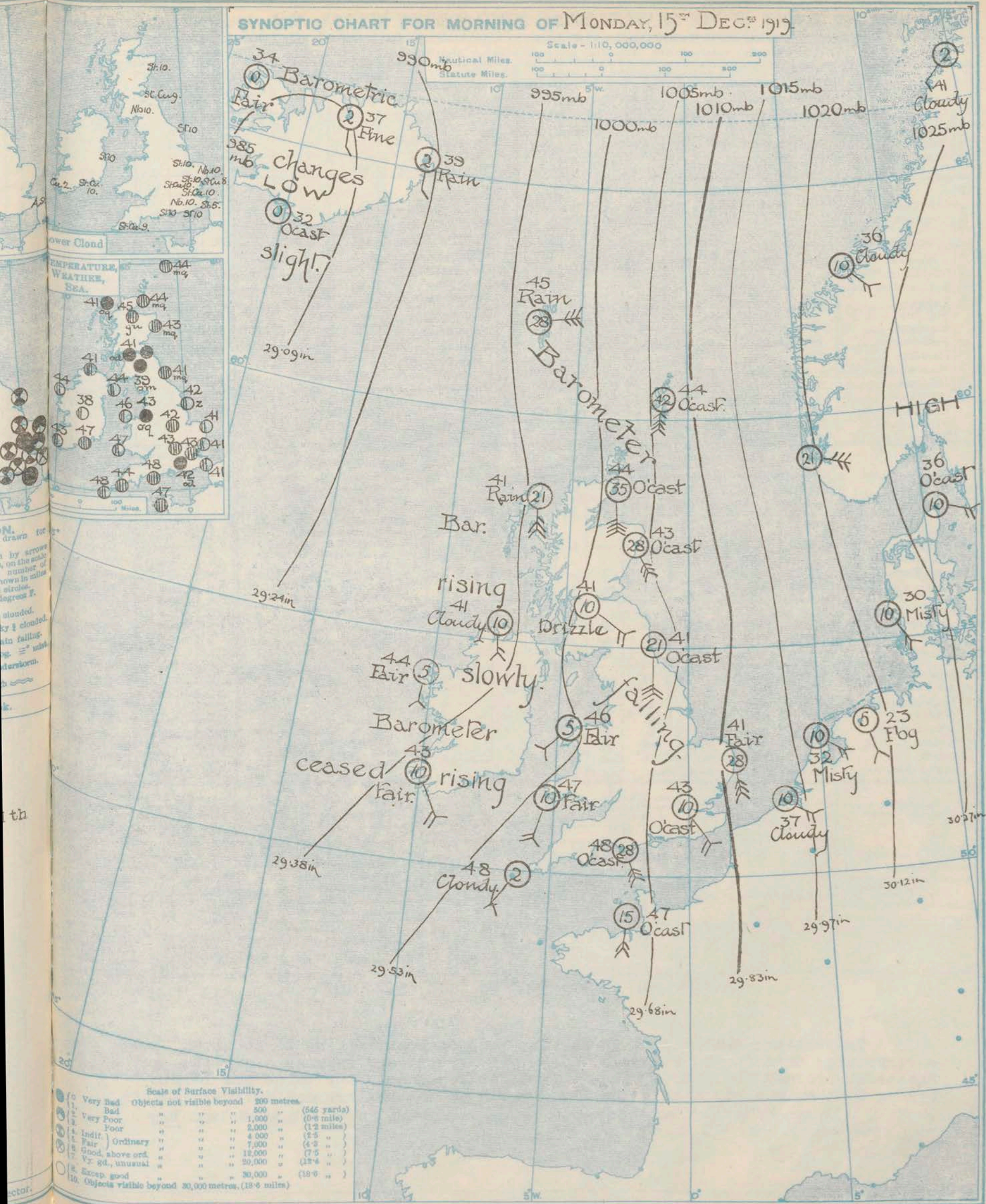
GENERAL INFERENCE from observations received up to 9 a.m.

There are no indications of any general change in the weather conditions. Depressions are likely to move North outside our western seaboard, maintaining a mild Southerly wind current, with much low cloud generally and occasional mist and slight rain.

Districts.	Forecasts for the 24 hours commencing 3 p.m.	Further Outlook.
1. S.E. England		Mild,
2. E. England		unsettled
3. E. Midlands	Wind mainly S., light or moderate, stronger locally.	weather, with
4. W. Midlands	Sky generally covered with low cloud, some slight rain	S. or S.W.
5. S.W. England	mist at times. Visibility indifferent. Mild.	winds.
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Wind S. fresh to light, cloudy or dull, cloud low.	
13. Isle of Man	Some rain and mist. Mild.	
14. N.&N.W.Scot-land		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland	Wind S. or S.W., light or moderate, fresh or strong at	
18. N.E. Ireland	times. Mainly overcast, with low cloud, fairer inter-	
19. S.E. Ireland	vals. Visibility moderate to poor. Mild.	
20. S.W. Ireland		



SYNOPTIC CHART FOR MORNING OF MONDAY, 15<sup>th</sup> DEC.<sup>r</sup> 1919.





# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. NO. 349 B

Monday  
15<sup>th</sup> DECEMBER

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 14 <sup>TH</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-9h. 13.75.	Day. 9h-17h. 14.75.	Contrise to Sun- set. 14.75.	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 12h-9h. 13.75.	Day. 9h-17h. 14.75.	Contrise to Sun- set. 14.75.		
Scotland.	Oban ... ..								England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	bc	co	45	37	1	-	0.7		Blac' pool ... ..									
	Montrose ... ..									Southport ... ..	of	o	46	37	1	-		0.0	
	St. Andrews ... ..																		
England, N.E.	Harrogate ... ..	of	of	43	34	-	-	0.0	Midlands.	Buxton ... ..									
	Kegness ... ..									Leamington Spa ... ..	oc	oc	49	35	0.4	-		0.0	
										Malvern ... ..									
										Ross-on-Wye ... ..	om	o, c	50	38	1	0.1		0.6	
England, E.	Felixstowe ... ..	ogm	ogm	43	41	-	-	0.0	Wales.	Rhyl ... ..	pe bc	bc	50	38	-	-		3.7	
	Walton-on-Naze ... ..									Colwyn Bay ... ..			50	38	-	-		5.1	
	Southend-on-Sea ... ..	o	o	42	40	-	-	0.0		Llandudno ... ..	bc	bc	54	40	0.4	-		4.2	
	Leweston ... ..									Aberystwyth ... ..									
England, S.E.	Margate ... ..								England, S.W.	Weymouth ... ..									
	Ramsgate ... ..	o	o	44	37	-	-	0.0		Teignmouth ... ..									
	Folkestone ... ..	od	o	44	41	1	-	0.0		Torquay ... ..									
	Hastings ... ..	o to	om	46	42	1	0.4	0.0		Paignton ... ..									
	Eastbourne ... ..	o	od	47	42	0.2	0.1	0.0		Penzance ... ..	o, c	c, ot	52	43	-	-		0.0	
	Brighton ... ..	o	o, c	47	42	-	-	0.0		Newquay ... ..	o	o, ot	50	40	0.2	1		0.0	
	Worthing ... ..	o	o	47	44	-	-	0.0		Bude ... ..									
	Littlehampton ... ..	og	og	46	43	1	-	0.0		Ilfracombe ... ..									
	Bournemouth ... ..									Weston-s-Mare ... ..									
	Tenby ... ..	od	od	46	40	1	0.3	0.0											

STATIONS.	SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.	THE BEAUFORT SCALE OF WIND FORCE.		
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass ° F.	RAINFALL.		Sun. Hours.		No.	Limits of Velocity.	
	7h-12h. 14.75.	12h-1h. 15.75.	1h-2h. 16.75.	2h-3h. 17.75.				Day. 7h-12h. 14.75.	Night. 12h-17h. 17.75.				Statute miles per hour.	Metres per second.
†Houton Bay (Orkney)... Eskdalemuir ... ..	ocbcz	coc	comc	ome	44	37	36	-	2	3.2	b blue sky (not more than a quarter covered).	0	Less than 1	Less than 0.3
†Stranraer ... ..							*	*	*	*	bc sky partly cloudy (one half covered).	1	1-3	0.3-1.5
†Lough Foyle ... ..							*	*	*	*	c generally cloudy (three quarters covered).	2	4-7	1.6-3.3
Valencia (Cahirciveen) ...	ocqz	opq	oc. c	bc	32	41	36	3	6	0.0	d drizzle, or fine rain.	3	8-12	5.4-5.4
†Anglesey (Llangefni) ...	c.o						*	*	*	*	e wet air without rain falling.	4	13-18	5.5-7.9
Falmouth ... ..	o.om	admrg	opq	ot. c. o	51	43	36	1	3	0.0	f fog. g gloom.	5	19-24	8.0-10.7
†Calshot (Hants) ... ..	o	cop	pq	o	41	35	*	*	*	*	h hail. i lightning.	6	25-31	10.8-13.8
†Capel (Folkestone)... ..	of. pd	of. pd	oz	c	44	38	*	*	*	*	m mist.	7	32-38	13.9-17.1
Aberdeen ... ..	bpcz	bezom		cmq op	43	39	41	-	Trace	1.8	o overcast sky.	8	39-46	17.2-20.7
†East Fortune ... ..	bcc	c.o					*	*	*	*	p passing showers.	9	47-54	20.8-24.4
†Flamborough Head...	ofc	ome	oq	omq	44	39	*	*	*	*	q squalls.	10	55-63	24.5-28.4
†Felixstowe ... ..	o	ofc	om	of	44	40	*	*	*	*	r rain.	11	64-75	28.5-33.5
†Cranwell (Lines) ... ..	o.om	om	op	o	47	39	*	*	*	*	rs sleet, i.e., rain and snow together.	12	Above 75	33.6 or above
†Bedford ... ..	of	o.q	of. pd	od	49	40	*	*	*	*	s snow.			
Benson ... ..	o	o	b.	o	48	41	40	-	Trace	*	t thunder.			
London (Kew Obsy.) ...	o.om	o.ond	ond. oms.		45.4	41	40	Trace	Trace	0.0	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.			

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity. 0=slight, 2=heavy. Underlining is used to express continuity.

**SYMBOLS—**

Aurora	☾	Solar halo	☉
Rime	☾	Lunar halo	☾
Glazed frost	☉	Solar corona	☉
Glazed roads	☾	Lunar corona	☾

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	Humidity %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	Morning	Afternoon.	Night.					15 h. G. M. T.	9 h. G. M. T.						
	24 HOURS ENDED 9H G. M. T. 15 <sup>th</sup>							YESTERDAY.	TO-DAY.	15 <sup>th</sup> AND 16 <sup>th</sup> DECEMBER 1919.					
Greenwich (Royal Observatory)	0	ot	o. c	48	40	36	trace	0.0	94	87	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.	Sunset.
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*		G. M. T.	G. M. T.	G. M. T.	
Westminster (St. James's Park)	*	*	*	49	42	40	1	0.0	93	84		Yarmouth ...	8.0	11.48	3.36
Admiralty Arch	omodm	odmo	opq	48	44	*	0.1	0.0	92	88	Total ..... 65 ..... Joules.  Milliwatts.	Greenwich	8.1	11.49	3.36
Camden Sq. (British Rainfall)	*	*	*	50	42	39	trace	*	94	88		Wick ...	8.58	12.7	3.16
Kensington Palace	od	od	*	50	41	40	1	*	96	88		Valencia ...	8.45	12.36	4.27
											Average Rate.	2.3			
											Maximum Rate.	10			

## NOTES ON THE WEATHER OF YESTERDAY.

Temperature continued high for the time of year, rising to about 50° over a very large area in the S. and W. Rain was experienced in many districts, but except in Ireland the quantity was slight; at Donaghadee the value was 14 m.m.. Strong Southerly winds, a gale locally, occurred on the Western and Northern Coasts. Very little or no bright sunshine was recorded except in Wales; at Colwyn Bay the measurement was 5.1 hours.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 24,208 B TUESDAY, 16<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND.		WEATHER.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.	BAROM. at M.S.L. m.b.	† Change in 3 hours.	WIND.		WEATHER.	TEMP. °F.	Humidity. %	Visibility. 0-10.	Height of Low Cloud. Feet.	Low Cloud.		Upper Cloud.		Sea 0-9.	
			Dir.	Force 0-12.						Form.	Amt. 0-10.	Form.	Amt. 0-10.				Dir.	Force 0-12.						Form.	Amt. 0-10.				
			13H. G.M.T. 15 <sup>TH</sup>														18H. G.M.T. OF 15 <sup>TH</sup>												
†Houton B.(Orkney)	1002.4	0	S	3	om	42	92	4	1-1000	St	10	-	-	*	1002.4	0	E	1	om	41	98	3	1-1500	Nb	10	-	-	*	
Eskdalemuir ...														*														*	
†Stranraer ...														*														*	
†Lough Foyle ...														*														*	
Valencia (Cahire'n)	996.5	0	S	3	C	47	82	8	2-3000	Cu	5	Ci Cu	2	4	998.9	+4	SW	4	b	44	82	8	2-3000	Cu	2	-	-	4	
†Anglesey (Llangefni)	1000.1	0	S	3	0	46	92	8	2-3000	St Cu	2	AS	8	5	1000.9	0	-	0	or	42	98	?	1-2000	Nb	10	-	-	2	
Falmouth ...	999.8	-4	W	1	oc	46	97	4	-	Nb	10	-	-	*	1001.3	+3	WNW	1	of	43	98	1	-	-	-	-	-	2	
†Calshot (Hants) ...	1005.0	-2	S	4	0	48	92	4	<500	St	10	-	-	3	1002.6	0	S	6	or	47	98	3	1-1500	Nb	10	-	-	5	
†Capel (Folkestone)															1007.9	0	SSE	7	oe	40	98	2	1-1500	St Cu	10	-	-	5	
Aberdeen ...	1003.8	0	S	5	or	44	97	5	-	Nb	10	-	-	5	1004.4	+1	SSE	3	or	44	98	5	-	1-1500	Nb	10	-	-	5
†East Fortune ...	1002.7	+7	SE	3	0	43	87	5	1-2000	Nb	10	-	-	*	1003.3	+1	SE	1	or	42	92	?	2-3000	Nb	10	-	-	-	*
†Farnborough ...	1007.0	-1	SSE	7	0	41	92	5	1-1500	St	10	-	-	*	1006.9	-1	SE	7	oe	41	98	5	1-1500	St	10	-	-	-	*
†Felixstowe ...	1004.3	-2	SSW	2	0, C	41	97	3	1-1500	Cu Nb	10	-	-	4	1007.9	0	S	4	0	42	98	3	1-1500	Cu Nb	10	-	-	-	3
†Cranwell (Lincs)	1005.8	-3	SE	3	om	41	97	4	1-1000	St	10	-	-	*	1004.5	-1	SE	4	or	40	98	4	1-1500	Nb	10	-	-	-	*
†Bedford ...	1006.0	-1	S	3	of	44	92	1	1-2000	St	10	-	-	*	1004.6	-2	SE	4	od	43	98	1	1-1000	St	10	-	-	-	*
Benson ...	1004.0	-3	SE	4	om	46	98	2	*	*	*	*	*	*	1002.8	-1	SE	5	or	45	98	3	-	-	-	-	-	*	
London (Kew Ob.)	1005.9	-2	SSE	2	0	46	87	6	2-3000	St Cu	8	A Cu	2	*	1004.4	-2	SE	3	0	46	92	5	1-2000	St Cu	8	A St	2	*	
1H. G.M.T. OF 16 <sup>TH</sup>												7H. G.M.T. OF 16 <sup>TH</sup>																	
†Houton B.(Orkney)	1001.8	-1	N	2	orm	35	92	3	-	Nb	10	-	-	*	1006.6	+5	-	0	C	31	98	7	-	sh	7	-	-	-	*
Eskdalemuir ...														*														*	
†Stranraer ...														*														*	
†Lough Foyle ...														*														*	
Valencia (Cahire'n)	1003.6	+3	WSW	2	bc	44	*	*	*	*	*	*	*	4	1006.1	+2	ENE	2	b	36	92	8	-	-	-	-	-	4	
†Anglesey (Llangefni)														*														*	
Falmouth ...	1004.2	+2	WNW	1	bc	41	98	5	-	Cu Nb	2	-	-	*	1008.0	+4	WNW	1	bc	39	98	4	-	sh	1	-	-	-	*
†Calshot (Hants) ...	1004.0	+2	SW	5	r, f <sub>2</sub>	46	98	3	1-1500	Nb	10	-	-	3	1007.9	+4	SW	5	od	43	98	4	1-2000	sh	10	-	-	-	2
†Capel (Folkestone)	1006.5	-1	SSE	5	0	42	92	6	1-1500	St	10	-	-	4	1008.5	+3	S	4	oe	43	98	3	1-1500	St Cu	10	-	-	-	3
Aberdeen ...														*	1004.7	+4	SW	1	or	40	92	5	-	Nb	10	-	-	-	3
†East Fortune ...	1001.3	-1	S	2	r	40	98	-	1-1500	Nb	10	-	-	*	1006.1	+4	SSW	3	c	40	87	-	2-3000	Nb	7	-	-	-	*
†Farnborough ...														*														*	
†Felixstowe ...	1006.7	0	SSW	4	om	42	98	3	1-1000	Cu Nb	10	-	-	3	1009.2	+3	SSW	3	0	43	98	3	1-1500	Cu Nb	10	-	-	-	3
†Cranwell (Lincs)	1004.1	0	SSE	4	r	41	98	4	1-1500	Nb	10	-	-	*	1006.6	+2	S	2	0	41	98	3	2-3000	St	10	-	-	-	*
†Bedford ...	1003.7	0	S	4	r	43	92	3	1-2000	St	10	-	-	*	1007.0	+4	WNW	3	od	43	98	3	1-1000	St	10	-	-	-	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.5	+5	W	1	om	40	98	2	-	sh Cu	10	-	-	-	*
London ...	1003.6	-1	*	*	0	*	*	*	*	*	*	*	*	*	1007.3	+5	W	2	or	45	98	3	-	Nb	10	-	-	-	*
(M.O. at 1h)																													
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																													
STATIONS.	BAROM. at M.S.L. m.b.	TEMP. °F.	WIND.		WEATHER.	BAROMETER.		TEMPERATURE.		WIND.		Dir. of Upper Cloud.	WEATHER.	Sea 0-9.	Rainfall mm.	TEMP.		WEATHER.			Sunshine Hours.								
			at M.S.L. m.b.	† Change in 3 hours.		Temp. °F.	Change in 24 hours.	Dir.	Force 0-12.	Max. °F.	Min. °F.					Morning.	Afternoon.	Night.											
																			24 HOURS ENDED 7H. 15 <sup>TH</sup>										
Lerwick ...	1006.2	42	SE	9	omr	1007.1	-2	41	-3	S	8	-	omr	6	15	45	40	omr	omr	omr	*								
Stornoway ...	998.5	47	S	6	o	1001.2	+1	42	+1	-	0	-	b	2	-	47	40	c	c.o.	o.b	0.0								
Castlebay (Barrats)	998.4	46	S	4	b	1007.1	+3	45	-	S	2	-	bc	3	trace	46	43	bc	bc	bc	1.3								
Glasgow ...	1002.8	42	ESE	2	odm	1005.5	+3	38	-3	WSW	1	-	o	*	9	44	37	of o.	og. odh	omr. om	0.0								
Malin Head ...	996.5	41	S	2	bc	1001.9	+2	39	-2	SSW	2	S	bc	2	Trace	45	37	c	c	bc	1.0								
Blacksod Point	996.6	44	SE	3	ch	1003.0	+3	42	-2	SW	2	-	bc	2	4	48	35	bc	bch	bc. bc	*								
Roche's Point...	999.4	47	W	1	b	1007.3	+4	34	-13	-	0	-	b	3	0.3	50	33	o.b.	b. bc. b	bx	2.8								
Birr Castle ...	998.5	43	S	1	c	1005.4	*	35	-3	S	1	-	b	*	1	45	33	bc	cp	c. bx	*								
Donaghadee ...	1000.8	45	S	3	om	1004.7	+4	36	-8	-	0	-	b	0	3	47	36	egm	omr	bm	*								
Liverpool (Bidston)	999.2	45	SE	4	r	1006.2	+4	40	-3	SSW	2	-	b	2	12	46	39	of	of	r. o. b	0.0								
Holyhead ...	1005.4	-2	-	0	ogt	1005.6	+3	44	-2	S	3	-	cp	2	11	48	41	c. ogf	c. ogf	omr. bp	0.0								
Pembroke (St. Ann's Head)	1000.3	44	ENE	2	o	1007.2	+4	43	-4	WSW	1	-	b	3	8	49	43	o	o. o	o. ep	0.0								
Silly (St. Mary's)	1001.1	48	SSW	2	c	1008.8	+4	45	-3	NW	2	NW	b	3	1	51	44	omr	o. c.	b	0.0								
Jersey (St. Aubin)	1003.0	48	SE	4	om	1007.9	+2	47	0	WNW	3	-	o	4	15	48	46	omr	omr	omr. oe	0.0								
Portland Bill ...	1001.3	49	SSE	6	ogt	1007.1	+5	46	-2	NW	3	-	o	4	5	52	44	og	og	bc. o	0.0								
Dungeness ...	1005.4	43	S	5	o	1006.4	*	46	+5	S	4	-	o	4	1	46	41	ch. o	a. c. o.	a. c. o. o.	*								
Wick ...	1001.8	44	S	7	omr	1002.8	+1	41	-3	NE	4	-	omr	4	13	44	40	omr	omr	omr	*								
Nairn ...	1001.8	42	-	0	o	1004.0	*	36	-9	-	0	-	c	1	7	45	34	og	og	cg. u	0.0								
Leith ...	1002.2	+3	SE	2	o	1004.7	+1	39	-3	SW	1	-	o	2	7	45	38	deg. o	ogm. o	omr. o	*								
Tynemouth ...	1003.5	42	S	3	om	1004.3	+3	42	+1	S	1	-	om	3	16	43													



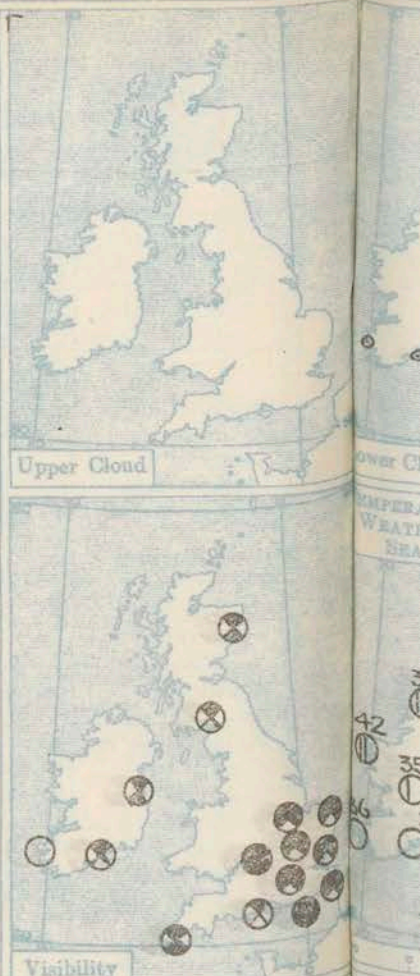
# SUMMARY OF CONDITIONS AT 7 A.M. Tuesday, 16th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	S-W 5-15	r. warm.	Dull; local mist and drizzle.	Poor	Mod
2. E. England	SE-SW 5-15	Mod.	Dull; local mist and drizzle.	"	"
3. E. Midlands	Var. 2.	"	Dull; misty.	"	-
4. W. Midlands	Var. 2.	"	Variable sky.	-	-
5. S.W. England	N.W. 2-10	r. cold.	Fine or dull.	Indiff.	Mod.
6. South Wales	SW-W 2.	"	Fine or cloudy.	Fair.	Slight
7. North Wales	S-SW 10	Mod.	Fine or cloudy; local showers.	"	Smooth
8. N.W. England	SSW 5.	"	Fine or cloudy.	"	"
9. N. Midlands	SW-W 2-5	"	Cloudy or dull.	Indiff.	-
10. N.E. England	SSE-S 2-10	"	Dull; local fog and rain	Poor	Mod.
11. E. Scotland	SW 0-10	"	Dull; local rain and mist	Indiff.	Slight
12. S.W. Scotland	S-W 0-2	r. cold	Cloudy or dull; local mist.	Var.	Smooth
13. Isle of Man	S 5-10	"	Fine.	-	Slight
14. N. & N.W. Scotland	Var. 0-15	Mod.	Fair to dull; local rain and mist.	Indiff.	Mod.
15. Hebrides	S.W. 0-5	"	Fine or fair.	Fair	Smooth
16. Orkneys and Shetlands	S. 20-40	"	Dull, some rain and mist	Poor	rough
17. N.W. Ireland	S.W. 5.	"	Fair.	Fair	Smooth
18. N.E. Ireland	SEW 0-5	r. cold	Fine or fair; local mist	Ord.	Smooth
19. S.E. Ireland	S-W 2-15	"	Fine.	"	Smooth
20. S.W. Ireland	Var. 0-5	Cold.	Fine	Good	Slight

GENERAL INFERENCE from observations received up to 9 a.m.

The shallow depressions now over the British Isles will move away Eastward and an interval of generally fairer weather is to be expected. Before the 24 hours have elapsed, however, it is probable that another depression from the Atlantic will begin to extend over our Western districts.

**EXPLANATION.**  
 BAROMETER.—Isobars are drawn for intervals of five 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.—Isobars are drawn for intervals of 1°.  
 WEATHER SYMBOLS.—  
 ○ clear sky. ○ sky & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. Z thunderstorm.  
 SEA DISTURBANCE.—  
 Rough High



Districts.	Forecasts for the 24 hours commencing 3 p.m. Tuesday, 16th December, 1919.	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 between W. and S., light. Variable sky, some slight local showers. Visibility poor to moderate in E. and S.E. fairly good in W. and S.W. Temperature rather lower than of late.	Wind between S. and S.W. Weather unsettled, temperature moderate.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands 17. N.W. Ireland	Wind mainly S. or S.W., light or moderate, changeable, some showers. Visibility generally indifferent. Moderate temperature.	
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S. or S.W., light to fresh. Fair, then dull, with some rain. Visibility good then deteriorating. Moderate temperature.	



# SYNOPTIC CHART FOR MORNING OF TUESDAY, 16<sup>th</sup> DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles. 100 0 100 200  
Statute Miles. 100 0 100 200

Barometer

LOW

29.99 in.  
34  
Fine

29.24 in.  
36  
Cloudy

29.38 in.

29.53 in.

29.68 in.

29.83 in.

29.97 in.

43  
15  
Fine

30.12 in.  
37  
Fine

30.27 in.

HIGH

30.42 in.  
32  
10  
O'cast

34  
21  
O'cast 1030 mb

1025 mb

1020 mb

1015 mb

1010 mb

Barometer

steady

rising

990 mb

995 mb

1000 mb

1005 mb

39  
5  
Fair

42  
5  
Fair

36  
5  
Fine

43  
2  
Fine

45  
5  
Fine

47  
10  
O'cast

38  
2  
O'cast

41  
15  
Rain

40  
2  
Rain

42  
15  
Rain

43  
5  
O'cast

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O'cast

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O'cast

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Nb. 10.

Nb. 7.

Sc. 7.

Sc. 10. Nb. 7.

Sc. 10.

Sc. Nb. 10.

Sc. 10. Nb. 10.

Sc. 10. Nb. 10.

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Scale of Surface Visibility.

Objects not visible beyond 200 metres.

Very Bad " " " 500 (545 yards)

Bad " " " 1,000 (1,094 yards)

Very Poor " " " 2,000 (2,187 yards)

Poor " " " 4,000 (4,375 yards)

Indist. " " " 7,000 (7,656 yards)

Fair " " " 12,000 (13,120 yards)

Good, above ord. " " " 20,000 (21,600 yards)

Ex. gd., unusual " " " 30,000 (32,800 yards)

Ex. gd., good " " " 30,000 (32,800 yards)

Objects visible beyond 30,000 metres (32,800 yards)

Objects visible beyond 30,000 metres (32,800 yards)

Objects visible beyond 30,000 metres (32,800 yards)



WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 15 <sup>TH</sup>																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 14 <sup>TH</sup>	Day. 9h-17h. 15 <sup>TH</sup>	Sunrise to Sunset. 15 <sup>TH</sup>	Forenoon.			Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 14 <sup>TH</sup>	Day. 9h-17h. 15 <sup>TH</sup>	Sunrise to Sunset. 15 <sup>TH</sup>		
Scotland.	Oban ... ..	r.o.c.	bc	47	40	6	-	0.0	England, N.W.	Douglas (I.O.M.)									
	Banff ... ..	go	of	43	41	-	1	0.0		Blackpool ... ..	or	or	45	40	1	7	0.0		
	Montrose ... ..									Southport ... ..	or	r	45	42	1	7	0.0		
	St. Andrews ... ..	o	o	42	38	3	3	0.0											
England, N.E.	Harrogate ... ..	or	of	40	38	2	2	0.0	Midlands.	Buxton ... ..									
	Skegness ... ..	o	o	42	39	-	-	0.0		Leamington Spa... ..	o.c.	o.c.	46	42	0.2	-	0.0		
	Scarboroughh.	-	-	45	40	-	-	0.0		Malvern ... ..	r	of	46	41	1	7	0.0		
										Ross-on-Wye ... ..	gd.mr	gd.or	49	42	2	5	0.0		
England, E.	Felixstowe ... ..	cgm	ogmqr	42	41	-	1	0.0	Wales.	Rhyl ... ..	h.c.	r	49	40	1	5	0.0		
	Walton-on-Naze...									Colwyn Bay ... ..	-	-	49	43	2	3	1.7		
	Southend-on-Sea...	of.o.	o	43	39	-	0.1	0.0		Llandudno ... ..	c.b.	or	50	42	2	2	0.7		
	Lowestoft.	-	-	43	41	-	-	0.5		Aberystwyth ... ..	r.o.	c.o.	47	44	8	8	0.0		
England, S.E.	Margate ... ..	o	od.c.	44	39	-	-	0.0	England, S.W.	Weymouth ... ..	o	or	50	44	2	4	0.0		
	Ramsgate ... ..	o	o	44	39	-	0.2	0.0		Teignmouth ... ..									
	Folkestone ... ..	od	od	45	39	-	0.3	0.0		Torquay ... ..	or	of	51	46	5	4	0.0		
	Hastings ... ..	od	om	45	41	1	1	0.0		Paignton ... ..	od	or	51	45	6	5	0.0		
	Eastbourne...	ord	ds	46	42	1	2	0.0		Penzance ... ..	or	ogf	50	45	3	6	4.0		
	Brighton ... ..	or	od	46	43	7	8	0.0		Newquay ... ..	o.or	or.o	47	42	4	9	0.0		
	Worthing ... ..	d	d	47	43	5	2	0.0		Bude ... ..	r	r	52	43	2	16	0.0		
	Littlehampton ... ..	ogmr	ogmr	46	43	3	2	0.0		Ilfracombe ... ..	or	or	48	44	3	12	0.0		
	Bournemouth ... ..	h	h	48	43	2	1	0.0		Weston-s-Mare ... ..	r.cr	or	50	43	2	2	0.0		
	Tonbridge Wells.	o	od	44	39	0.3	0.4	0.0											

STATIONS.		SUMMARIES FOR PAST 24 HOURS.										BEAUFORT NOTATION.		THE BEAUFORT SCALE OF WIND FORCE.		
		WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass ° F.	RAINFALL.		Sun. Hours.			No.	Limits of Velocity.	
		7h-18h. <sup>15</sup>	18h-18h. <sup>15</sup>	18h <sup>15</sup> -1h. <sup>16</sup>	1h-7h. <sup>16</sup>				Day. 7h-18h.	Night. 18h-7h.					Statute miles per hour.	Metres per second.
†Houton Bay (Orkney)...								*	*	*	*	b blue sky (not more than a quarter covered). bc sky partly cloudy (one half covered). c generally cloudy (three quarters covered). d drizzle, or fine rain. e wet air without rain falling. f fog. g gloom. h hail. i lightning. m mist. o overcast sky. p passing showers. q squalls. r rain. rs sleet, i.e., rain and snow together. s snow. t thunder. u ugly, threatening sky. v unusual visibility. w dew. x hoar frost. y dry air; humidity less than 60 per cent. z dust haze; the turbid atmosphere of dry weather.	0	Less than 1	Less than 0·3	
Eskdalemuir ...		or.m.	om	om	or.m.	42	31	27	4	10	0·0		1	1-3	0·3-1·5	
†Stranraer ...								*	*	*	*		2	4-7	1·3-3·3	
†Lough Foyle ...								*	*	*	*		3	8-12	3·4-5·4	
Valencia (Cahirciveen) ...		bc.c.	bc.c.		b	48	35	33	-	-	2·6		4	18-18	5·5-7·9	
†Anglesey (Llangefni) ...		c.o.	h.d. r.					*	*	*	*		5	19-24	8·0-10·7	
Falmouth ...		of.	or. of.	o.c. br	bw	47	38	30	12	Trace	0·0		6	25-31	10·8-13·8	
†Calshot (Hants) ...		o	r	r	r	48	43	*	*	*	*		7	32-38	13·9-17·1	
†Capel (Folkestone)...		o	r	cpa	orq	43	41	*	*	*	*		8	39-46	17·2-20·7	
Aberdeen ...		ogmr.	r.ogmr.	omr		44	40	39	7	24	0·0		9	47-54	20·8-24·4	
†East Fortune ...		o. f.	h. o.	p	pz	43	39	*	*	*	*		10	55-63	24·5-28·4	
†Flamborough Head...		g. g.	e. g.					*	*	*	*		11	64-75	28·5-33·5	
†Felixstowe ...		c.o.	h.	e. p. d.	p	43	40	*	*	*	*		12	Above 75	33·6 or above	
†Cranwell (Lines) ...		om. h.	om. h.	r. r.	omr	42	38	*	*	*	*					
†Bedford ...		of. h.	f. q.	c. ogm.	ofq	44	41	*	*	*	*					
Benson ...		om	or.	r. o.		46	40	38	3	12	*					
London (Kew Obsy.) ...		o	o. om. d.	or. r.	ordr	46	44	43	Trace	8	0·0					

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	Humidity %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.						
	Morning	Afternoon.	Night.						15 h.	9 h.								
				G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.	G.M.T.									
24 HOURS ENDED 5h G.M.T. 16 <sup>th</sup>											YESTERDAY.		TO-DAY.		16 <sup>th</sup> 17 <sup>th</sup> DECEMBER 1919.			
Greenwich (Royal Observatory)	od	od.	odrm	46	43	42	3	0.0	91	94	Vertical Component of Solar Radiation per Square Centimetre during yesterday.	Stations.	Sunrise.	Noon.	Sunset.			
City (Bunhill Row)	*	*	*	*	*	*	*	0.0	*	*		G.M.T.	G.M.T.	G.M.T.				
Westminster (St. James's Park)	*	*	*	47	44	41	4	0.0	87	94		Yarmouth...	8.1	11.48	3.36			
Admiralty Arch	bcmmom	om	od	48	44	*	4	0.0	82	93		Greenwich	8.2	11.49	3.36			
Camden Sq. (British Rainfall)	og.o	o	*	46	42	42	6	*	94	98		Wick	8.2	11.56	3.49			
Kensington Palace	o	o.d	*	47	42	43	7	*	15h.94	98	Total.....68..... joules.	Valencia	8.3	11.56	3.49			
											Average Rate. 2.4		Milliwatts.					
											Maximum Rate. 4							

### NOTES ON THE WEATHER OF YESTERDAY.

Temperature again rose to about 50° at many places in the S.W. and W. and to 45° over a much larger area. Rain fell very generally, the quantity being considerable in some districts; 29 m.m. at Aberdeen, 16 m.m. at Tynemouth, 15 m.m. at Lerwick and Jersey. The day was sunless in most places, but Birr Castle recorded 2.8 hours, Valencia 2.6 hours, Colwyn Bay 1.7 hours and Malin Head 1.0 hours.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 2438 WEDNESDAY, 17<sup>TH</sup> DECEMBER 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1h, 7h, 13h AND 19h.																													
STATIONS	Barom.	Temp.	Wind.	Weather.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea.	Barom.	Temp.	Wind.	Weather.	Humidity.	Visibility.	Height of Low Cloud.	Low Cloud.	Upper Cloud.	Sea.									
	M.S.L. m.b.	Change in 3 hours.	Force 0-12.		%	0-10.	Feet.	Form.	Am't. 0-10.	0-9.	M.S.L. m.b.	Change in 3 hours.	Force 0-12.		%	0-10.	Feet.	Form.	Am't. 0-10.	0-9.									
13h. G.M.T. 16 <sup>th</sup>											19h. G.M.T. of 16 <sup>th</sup>																		
†Houton B. (Orkney)	1008.7	+2	-	0	ome	35	98	3	1/2-1000	St	10	-	-	*	1010.9	+3	SW	2	ome	37	98	4	1-1500	St	10	-	-	*	
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
†Valencia (Cahire'n)	1006.9	0	S	4	bc	47	75	10	2-3000	Cu	2	Acu	3	4	1007.0	0	S	5	0	46	92	7	2-3000	St	3	Ast	7	4	
†Anglesey (Llangefnol)	1009.5	+1	S	4	bc	46	87	8	2-3000	St	5	-	-	3	1011.7	+4	S	3	bc	48	92	2	2-3000	St	4	-	-	3	
†Falmouth ...	1011.9	+3	WNW	1	b	47	75	5	-	Cu	3	-	-	*	1014.5	+3	W	1	by	40	87	8	-	St	1	-	-	*	
†Calshot (Hants) ...	1011.5	+1	-	0	o	46	92	2	4-5000	Cu	3	Cu	6	2	1015.8	+6	-	0	bo	40	92	2	-	-	-	-	-	1	
†Capel (Folkestone)	1010.5	+1	S	4	od	44	98	1	1-1500	St	10	-	-	2	1011.2	-1	N	2	oe	44	98	1	1-1500	St	10	-	-	1	
Aberdeen ...	1006.6	+1	WSW	1	cem	40	92	4	-	-	-	Ast	8	3	1008.9	+2	SW	2	em	38	92	4	-	-	-	-	-	*	
†East Fortune ...	1007.3	+2	-	0	bcz	44	75	5	3-4000	St	5	-	-	*															
†Flamboro' Head	1008.5	+3	W	2	om	41	98	2	1-1500	St	10	-	-	*	1011.8	+3	SSW	1	b	38	92	4	-	-	Ast	2	-	*	
†Felixstowe ...	1010.6	+1	N	1	od	43	98	1	1-1500	Nb	10	-	-	2	1012.0	+4	N	1	of	39	98	0	1/2-1000	Cu	10	-	-	1	
†Cranwell (Lincs)	1010.3	+1	W	1	of	41	98	3	1/2-1000	St	10	-	-	*	1013.3	+4	-	0	b	35	98	3	1/2-2000	St	2	Ast	1	-	*
†Bedford ...	1010.2	+1	W	2	of	43	92	1	1/2-2000	St	10	-	-	*	1013.4	+3	WSW	1	b	37	98	1	-	-	-	-	-	-	*
Benson ...	1010.0	+2	-	0	c	44	92	3	-	-	-	-	-	*	1013.6	+3	-	0	b	33	98	5	-	-	-	-	-	-	*
London (Kew Obs.)	1010.4	+3	WNW	2	om	45	92	4	3-4000	St	4	Acu	5	*	1013.7	+4	-	0	f	37	98	1	-	-	-	-	-	-	*
1h. G.M.T. of 17 <sup>th</sup>											7h. G.M.T. of 17 <sup>th</sup>																		
†Houton B. (Orkney)	1011.3	0	SSW	3	o	38	92	6	-	St	10	-	-	*	1009.6	-1	SSW	5	oef	41	98	1	1-500	Nb	10	-	-	-	*
†Eskdalemuir ...																													
†Stranraer ...																													
†Lough Foyle ...																													
†Valencia (Cahire'n)	1008.8	+3	SSW	4	bc	50	*	*	*	*	*	*	*	4	1014.5	+5	W	2	o	48	75	7	-	St	10	-	-	3	
†Anglesey (Llangefnol)																													
†Falmouth ...	1016.3	+1	W	1	bc	41	87	6	-	St	10	-	-	*	1017.5	+1	SSW	3	ode	46	98	3	-	Nb	10	-	-	-	*
†Calshot (Hants) ...	1015.1	+3	-	0	3 <sub>2</sub>	32	28	2	1-1500	St	2	-	-	0	1019.3	+3	-	0	oem	31	98	2	2-3000	St	9	-	-	0	
†Capel (Folkestone)	1016.3	+6	-	0	ef <sub>2</sub>	35	28	0	<500	St	10	-	-	1															
Aberdeen ...														*	1006.8	-1	S	4	om	44	82	4	-	St	10	-	-	3	
†East Fortune ...	1009.0	-2	SSW	3	b	41	82	-	-	-	-	-	-	*															
†Flamboro' Head														*	1014.0	0	SW	3	oef	30	98	2	1-1500	St	10	-	-	*	
†Felixstowe ...	1016.3	+2	N	1	f <sub>2</sub>	38	98	0	2-3000	Cu	10	-	-	2	1019.4	+4	WNW	1	of	30	98	1	1/2-1000	Cu	10	-	-	1	
†Cranwell (Lincs)	1016.2	+5	WSW	2	f <sub>2</sub>	32	98	3	2-3000	St	3	-	-	*	1017.4	0	SW	1	bc	32	98	4	2-3000	St	3	Ast	3	-	*
†Bedford ...	1016.4	+3	SSW	1	f <sub>2</sub>	26	92	0	-	-	-	-	-	*	1019.4	+2	-	0	f	28	98	0	-	-	-	-	-	-	*
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.3	+2	WSW	1	ex	32	98	5	-	sh	7	-	-	-	*
London ...	1016.5	+3	*	*	f	*	*	*	*	*	*	*	*	*	1019.5	+2	WNW	1	fe	31	98	0	-	-	-	-	-	-	*
(M.O. at 1h.)																													
STATIONS CONTRIBUTING REPORTS AT 7h AND 19h.																													
STATIONS.	Barom.	Temp.	Wind.	Weather.	Barometer.	Temperature.	Wind.	Weather.	Sea.	Rainfall.	Temp.	Weather.	Sunshine.																
	M.S.L. m.b.	°F.	Force 0-12.		at M.S.L. m.b.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Force 0-12.	Upper Cloud.	Dir.	Force 0-12.	Hours.																
19h. G.M.T. of 16 <sup>th</sup>														7h. G.M.T. of 17 <sup>th</sup>															
Lerwick ...	1009.2	42	S	8	omr	1012.3	-4	44	+3	S	8	-	omr	6	18	45	40	omr	omr	om	0.0								
Stornoway ...	1003.1	43	SSW	5	bc	999.4	+2	43	+1	WSW	5	-	bc	4	7	44	39	bcp	bc	c.bc	0.0								
Castlebay (Barras)	1003.4	46	S	4	op	1003.5	+2	47	-	WSW	4	-	o	2	2	48	43	bc	bcp	opo	0.9								
Glasgow ...	1009.6	40	SSW	2	bc	1007.9	0	45	+7	SW	3	W	o	1	1	45	36	omr	odpung	b.bcp	0.0								
Malin Head ...	1003.7	42	SSW	3	c	1005.6	+2	46	+7	SW	3	SW	c	3	1	47	38	bc	bc	c	4.6								
Blacksod Point	1002.7	47	SSW	5	ch	1008.2	+5	47	+5	SW	2	-	om	3	3	49	38	bcp	bc	omr	*								
Roche's Point...	1010.6	48	SW	4	o	1014.1	+6	46	+12	NW	1	-	b	2	3	49	33	b bc	bc.o	od.b	*								
Birr Castle ...	1008.1	43	S	1	c	1011.7	*	43	+8	S	1	-	o	*	1	43	32	bc	co	po	4.9								
Donaghadee ...	1009.3	38	SW	1	bom	1010.0	+3	44	+8	S	1	-	bc	1	20	46	36	bom	bom	omr	*								
Liverpool (Bidston)	1012.4	41	SW	1	b	1013.4	+1	38	-2	SSE	3	S	o	3	-	45	35	bc.b	bc.b	b.o	3.0								
Holyhead ...	1011.2	45	SW	4	bc	1012.0	+1	48	+4	SSW	5	-	odmq	4	6	49	41	c.bc.b	b	bcp.or	5.5								
Pembroke (St. Ann's Head)	1012.8	47	S	2	bc	1014.7	+1	47	+4	SSW	4	-	odm	4	0.4	43	43	bc	bc	c.od	6.6								
Scilly (St. Mary's)	1013.4	48	SW	2	bc	1016.3	0	50	+5	SW	4	-	omd	4	1	50	44	bc	bc	bc.ond	6.5								
Jersey (St. Aubin)	1013.7	46	NW	2	b	1020.1	+1	41	-6	W	3	-	o	3	Trace	51	36	oe.bc	bc	bwo	1.8								
Portland Bill ...	1013.0	46	WNW	1	bc	1017.2	+2	48	+2	WNW	2	-	bc	2	-	51	39	o bc	bc	bc	*								
Dunegness ...	1011.9	46	N	1	om	1018.6	*	30	-16	N	2	-	f	2	0.3	47	29	od.o	od.om	of.f	*								
Wick ...	1005.6	41	SSE	3	bom	1001.4	+1	44	+3	NNW	3	-	em	3	0.4	44	40	om	bom	bom	*								
Nairn ...	1006.1	25	-	0	bc	1002.7	*	45	+9	W	1	-	cg	1	0.3	45	32	bc	bc	bcp	3.4								
Leith ...	1008.9	42	SW	2	c	1006.9	-9	46	+7	SSW	3	-	o	2	1	46	36	c.cg.c	c.cg.c	c.tpo	*								
Tynemouth ...	1011.3	40	SW	2	f	1011.4	0	38	-4	SW	2	-	em	2	-	42	35	f	om	omr	*								
Spurn Head ...	1012.7	39	W	2	b <sub>2</sub>	1015.5	+2	35	-5	S	3	-	bc	4	3	42	33	fd	cf	f.bcz	*								
Yarmouth (Gorleston)	1011.7	43	S	1	f	1016.6	+3	32	-10	S	1	-	b <sub>2</sub>	3	2	43	31	of	fd	of.b <sub>2</sub>	0.0								
Clacton-on-Sea	1013.0	44	WNW	2	o	1018.6	+3	32	-11	WNW	2	-	of	2	2	44													

† Air Ministry Station. \* Information for these columns not usually received. † The barometric change is expressed in half millibars. § Longside † at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Wednesday, 17th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	Indef. 0-5	Cold	Dull, foggy.	Bad	Smooth
2. E. England	Var. 2-5	r. cold	Variable cloud; much fog.	"	Slight
3. E. Midlands	S.W. 2.	"	Cloudy or dull; local frost and mist.	Indiff	-
4. W. Midlands	SSW. 2-10	Mod.	Cloudy or dull.	"	-
5. S.W. England	S-W 5-15	"	Fair to dull; local mist and drizzle.	Poor	Slight
6. South Wales	SSW. 10-15	"	Dull; some drizzle.	"	Mod.
7. North Wales	S-SW 10-20	"	Dull; local mist and drizzle.	"	"
8. N.W. England	SSE-SSW 10.	"	Cloudy or dull.	Ord.	Slight
9. N. Midlands	S.W. 2-10	r. cold	Cloudy or dull; local mist.	Indiff	-
10. N.E. England	S-SW 5-10	r. cold	Fair to dull; local mist and fog.	Poor	Slight
11. E. Scotland	S-W 2-15.	r. warm	Cloudy or dull; some local mist.	Ord.	Slight
12. S.W. Scotland	S.W. 10-20	"	Dull; local fog.	Var.	Slight
13. Isle of Man	S.W. 10-15	Mod.	Fair or dull	Fair	Slight
14. N. & N.W. Scot- land	SW-NW 10-20	r. warm	Fair or cloudy; local mist.	Ord.	Mod.
15. Hebrides	SW-WSW 15-20	"	Fair or cloudy.	Fair	"
16. Orkneys and Shetlands	S-W 20-40.	"	Cloudy or dull; local mist and rain.	Poor	r. rough
17. N.W. Ireland	S.W. 5.	"	Dull; some mist.	Poor	Slight
18. N.E. Ireland	S-SW 2-10.	"	Fair or cloudy.	Fair	Slight
19. S.E. Ireland	S-SW 2-15.	"	Dull; local drizzle	-	Mod.
20. S.W. Ireland	W-NW 2-5	Mod.	Variable sky.	Good	Slight.

GENERAL INFERENCE from observations received up to 9 a.m.

The deep depression over Iceland and the secondary off the N. of Scotland will probably move North-Eastward, while the secondary over the St. George's Channel is likely to move slowly Eastward and become less pronounced. Light to moderate winds mainly from South-West are anticipated, with a cloudy or variable sky and slight showers locally. Over the Eastern half of England occasional mist or fog is probable.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊖ sky & clouded.    ⊕ sky & clouded.  
 ⊖ overcast sky.    ⊕ rain falling.  
 \* snow.    Δ hail.    = fog.    = mist.  
 T thunder.    E thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

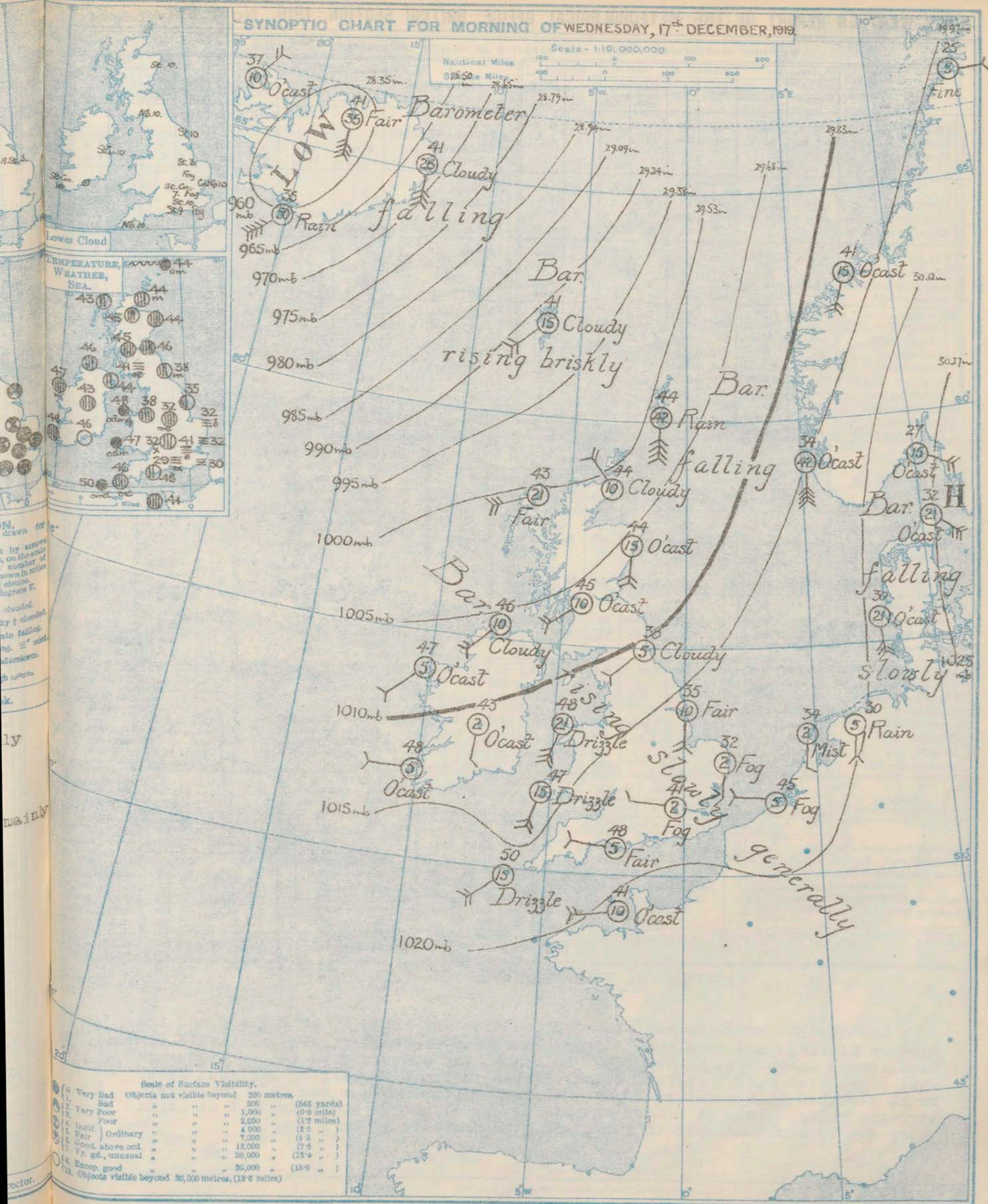


Districts.	Forecasts for the 24 hours commencing 3 p.m. Wednesday, 17th December, 1919.	Further Outlook.
1. S.E. England	Wind S. or S.W., light. Much low cloud, some mist or fog, perhaps slight local showers. Visibility poor generally.	Wind mainly S. or S.W. Weather continuing unsettled and temperature mainly above the normal.
2. E. England	Moderate temperature.	
3. E. Midlands		
4. W. Midlands	Wind S. to S.W., light or moderate. Cloudy, some showers, mist locally. Visibility improving. Temperature moderate or rather high.	
5. S.W. England		
6. South Wales		
7. North Wales		
8. N.W. England		
9. N. Midlands	Same as 1 - 3.	Wind mainly S. or S.W. Weather continuing unsettled and temperature mainly above the normal.
10. N.E. England		
11. E. Scotland		
12. S.W. Scotland	Wind S. to S.W., light or moderate, fresh locally, strong in Shetland, cloudy or dull; some showers and mist. Visibility indifferent. Rather mild.	
13. Isle of Man		
14. N. & N.W. Scot- land		
15. Hebrides		
16. Orkneys and Shetlands		
17. N.W. Ireland	Wind S. or S.W., light or moderate, then increasing. Sky cloudy or variable, local showers. Visibility about normal.	
18. N.E. Ireland	Moderate or mild temperature.	
19. S.E. Ireland		
20. S.W. Ireland		



# SYNOPTIC CHART FOR MORNING OF WEDNESDAY, 17<sup>th</sup> DECEMBER, 1912

Scale - 1:10,000,000  
Nautical Miles 0 100 200  
Statute Miles 0 100 200





DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 351. B

Wednesday,  
17<sup>th</sup> December

[illegible]

STATIONS.	SUMMARIES FOR PAST 24 HOURS.									
	WEATHER				Max. Temp. ° F.	Min. Temp. ° F.	Mid. of Gross F.	RAINFALL.		Sun. Hours.
	7h-13h <sup>16</sup>	13h-18h <sup>16</sup>	18h <sup>16</sup> -1h <sup>17</sup>	1h-7h <sup>17</sup>				Day. 7h-18h	Night. 18h-7h	
†Houton Bay (Orkney)...							*	*	*	*
Eskdalemuir ... ..	odm. oom	cm. ome.	omedms bome	o. ofe	41	30	31	1	1	0.0
†Stranraer ... ..							*	*	*	*
†Lough Foyle ... ..							*	*	*	*
Valencia (Cahireveen) ...	b. bcp.	b. c. op		b or. c. xc	50	35	43	2	8	1.2
†Anglesey (Llangefni) ...	bc. c.	bc. c.					*	*	*	*
Falmouth ... ..	bm. b.	ky. bo.	b. bc	bc. ome	51	37	28	Trace	-	6.8
†Calshot (Hants) ... ..	c. o.	ky. c.	*	x. em	48	30	*	*	*	*
†Capel (Folkestone) ... ..	ofe.	ho. of.	ef. p. p.	.			*	*	*	*
Aberdeen ... ..	dm. cm	bcm. bm		bcm. om	44	37	32	1	-	0.0
†East Fortune ... ..	z. bc. c.		b.				*	*	*	*
†Flamborough Head ... ..	om. e.	bc. c. e					*	*	*	*
†Felixstowe ... ..	d.	hd. ofe	of.	ef	44	30	*	*	*	*
†Cranwell (Lincs) ... ..	c. om.	om. bc. c.	b. bc	b. bc. c.	42	29	*	*	*	*
†Bedford ... ..	c. o. f.	c. o.	ho. of.	b. of	44	24	*	*	*	*
Benson ... ..	om.	b.			44	29	20	-	0.1	*
London (Kew Obsy.) ... ..	or. f. om.	om. bcm. m.		of. x fe	45	31	29	2	0.2	0.0

BEAUFORT NOTATION.




- b blue sky (not more than a quarter covered).
- bc sky partly cloudy (one half covered).
- c generally cloudy (three quarters covered).
- d drizzle, or fine rain.
- e wet air without rain falling.
- f fog. g gloom.
- h hail. l lightning.
- m mist.
- o overcast sky.
- p passing showers.
- q squalls.
- r rain.
- rs sleet, i.e., rain and snow together.
- s snow.
- t thunder.
- u ugly, threatening sky.
- v unusual visibility.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

THE BEAUFORT SCALE OF  
WIND FORCE.

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

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity 0=slight, 2=heavy. Underlining is used to express continuity.

SYMBOLS—

Aurora		Solar halo
Rime		Lunar halo
Glazed frost		Solar corona
Glazed roads		Lunar corona

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. mm.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.			
	Morning	Afternoon.	Night.						15 h.	9 h.					
				G.M.T.	G.M.T.										
	24 HOURS ENDED 9h G.M.T. ... 17th ...							YESTERDAY.	TO-DAY.		Vertical Component of Solar Radiation per Square Centimetre during yesterday.	17th & 18th December ... 1919.			
												Stations.	Sunrise.	Noon.	Sunset.
Greenwich (Royal Observatory)	o	a.c.	og. of	46	32	25	1	0.0	93	91	Total ..... 93 ..... Joules.	Yarmouth...	G.M.T.	G.M.T.	G.M.T.
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*		8.3	11.49	3.36	
Westminster (St. James's Park)	*	*	*	47	32	28	1	0.0	92	93	Average Rate. 3.3	Greenwich {	8.3	11.50	3.31
" (Admiralty Arch)	om. om	om	om. fe	49	34	*	1	0.0	90	95		8.4	11.57	3.50	
Camden Sq. (British Rainfall)	odmo	co	*	46	32	29	1	*	95	100	Maximum Rate. 10	Wick ... {	9.1	12.8	3.15
Kensington Palace ...	bc.	c. o	*	46	30	28	1	*	100	100		9.2	12.9	3.16	
												Valencia ... {	8.47	12.37	4.2
													8.48	12.38	4.2

NOTES ON THE WEATHER OF YESTERDAY.

Much bright sunshine was recorded in Wales and the S.W. of England and the Western Midlands and more than 3 hours at Nairn; elsewhere there was little or none. Temperature again rose to about 50° in the W. and S.W., and to 45° or higher in most other districts. It fell briskly later in the S.E. half of England, frost being recorded at several stations - at Bedford the minimum was 24°. Rain fell very generally. In most places the amount was slight or moderate, but at Leith there was 17 m.m., Lerwick 18 m.m., and at Donaghadee 20 m.m.

† Air Ministry Station.

\* Information for these columns not usually received.





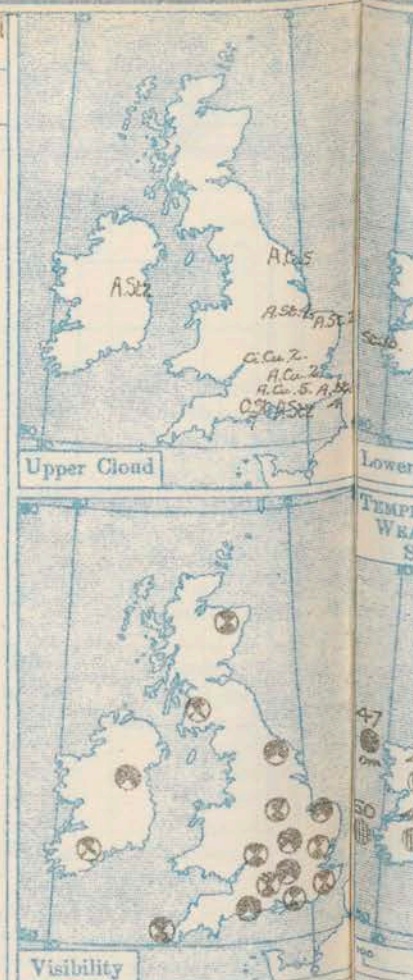


# SUMMARY OF CONDITIONS AT 7 A.M. Thursday, 18th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	W-N. 0-5	Mod.	Fair to dull, local mist and fog.	Indiff.	Smooth
2. E. England	WSW-WNW. 2-10	"	Variable sky, local mist.	"	"
3. E. Midlands	WSW. 0-5	"	Variable sky.	Fair	"
4. W. Midlands	SW-W. 5	"	Fair or cloudy	"	"
5. S.W. England	W-WNW. 2-10	"	Variable sky, light local mist.	Ord.	Slight
6. South Wales	SW-W. 5	"	Fair	Fair	"
7. North Wales	SW. 5-15	"	Fine to cloudy	"	Smooth
8. N.W. England	SW. 5-10	"	Cloudy or dull	"	"
9. N. Midlands	SW-W. 5-10	"	Fair to dull	"	"
10. N.E. England	W. 0-15	"	Fair to dull.	Poor	Slight
11. E. Scotland	S-W. 5-10	"	Cloudy, local haze.	Fair	"
12. S.W. Scotland	SW. 10-15	"	Cloudy or dull.	Good	Smooth
13. Isle of Man	SW. 10	"	Cloudy	"	"
14. N. & N.W. Scotland	SW-W. 5-20	"	Fair to dull, local squalls	Fair	Mod.
15. Hebrides	SW-W. 15-20	R. warm	Dull, squalls in North	"	"
16. Orkneys and Shetlands	SW-NW. 15-20	Mod.	Fine or cloudy.	"	Slight
17. N.W. Ireland	SSW. 10	R. warm	Dull, local mist and rain.	Poor	"
18. N.E. Ireland	SSW-WSW. 5-10	Mod.	Cloudy, misty.	Indiff.	"
19. S.E. Ireland	S-SW. 5	R. warm	Dull	Fair	Smooth
20. S.W. Ireland	S-SW. 5-10	"	Dull, light local fog.	Good locally	Slight

GENERAL INFERENCE from observations received up to 9 a.m.

Another depression, apparently of slight or moderate intensity, is beginning to spread over Ireland from the Atlantic. It will probably move slowly eastward or north-eastward and cause rain in most parts of the Kingdom, at first in the west and subsequently in the eastern districts.



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrow pointing in the direction from which the wind is blowing 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. K thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

Districts.	Forecasts for the 24 hours commencing 3 p.m. Thursday, 18th December, 1919	Further Outlook.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind SW. or S. light or moderate. Cloudy, then some rain or passing showers, mist locally. Visibility fair, deteriorating later. Mild.	Mild weather, with winds from between S. and W. will continue.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind S. or SW. light or moderate, fresh locally. Mainly dull, some rain, mist locally. Visibility moderate, then poor. Mild.	
9. N. Midlands 10. N.E. England 11. E. Scotland 12. S.W. Scotland	Wind S. or SW. light or moderate. Cloudy or dull, then some rain, mist locally. Visibility fair to indifferent. Mild.	
13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind S. or SW. light or moderate, fresh locally. Dull, some rain, mist locally. Visibility fair to indifferent. Mild.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind S. veering towards W., light or moderate to fresh, stronger on west coast. Dull, rain at times, mist locally. Visibility poor or indifferent. Mild.	



# SYNOPTIC CHART FOR MORNING OF THURSDAY, 18<sup>TH</sup> DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles  
Statute Miles





WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 17th																	
STATIONS.		WEATHER		TEMPERATURE		Rainfall		SUNSHINE	STATIONS	WEATHER		TEMPERATURE		Rainfall		SUNSHINE	
		Forenoon	Afternoon	Max. F.	Min. F.	Night. 17th-18th. 16th	Day. 17th. 17th	Sunrise to Sunset. 17th		Forenoon	Afternoon	Max. F.	Min. F.	Night. 17th-18th. 16th	Day. 17th. 17th	Sunrise to Sunset. 17th	
Scotland	Oban ... ..	n.o.c.	bc	47	38	5	-	0.0	England, N.W.	Douglas (I.O.M.)							
	Banff ... ..	bc.c.	of.c.	48	35	0.2	1	0.5		Blackpool ... ..	o	c	46	32	1	0.3	0.0
	Montrose ... ..									Southport ... ..							
	St. Andrews ... ..	c	c	47	31	0.3	1	0.2									
England, N.E.	Harrogate ... ..	bc.c.o.	c.o	44	34	0.2	-	0.0	Midlands	Buxton ... ..							
	Skegness ... ..	fe.obc.	c.od.	41	29	0.2	-	0.5		Leamington Spa... ..	o.c.	c.	46	28	-	-	0.0
	Scarborough ... ..	-	-	45	32	5	0.3	0.0		Malvern ... ..	o.c.	c.o	46	28	-	-	0.0
										Ross-on-Wye ... ..	o	o	47	26	0.1	-	0.0
England, E.	Felixstowe ... ..	of.w	cgm	40	31	0.3	-	0.0	Wales.	Rhyl ... ..	c	gh	49	35	?	0.2	0.0
	Walton-on-Naze...									Colwyn Bay ... ..	-	gh	48	40	-	-	0.0
	Southend-on-Sea...	fe.o.c.	c.oe	41	31	0.3	-	0.5		Llandudno ... ..	c.o	c.	51	42	0.3	-	0.0
	Lowestoft ... ..	-	-	42	30	0.4	-	4.0		Aberystwyth ... ..	o.c.	c.o	50	46	-	-	0.0
England, S.E.	Margate ... ..	bc.b.	b.bc.c.	46	31	-	-	4.1	England, S.W.	Weymouth ... ..	o	oe.d.o	51	32	-	1	0.0
	Ramsgate ... ..	bc	bc	45	30	-	-	3.7		Teignmouth ... ..							
	Folkestone ... ..	f	f	46	35	Trace	-	0.0		Torquay ... ..	o.c.o.	od.o.	50	35	0.2	0.1	0.1
	Hastings ... ..	bc.f.	b.bc	46	34	0.3	-	5.0		Paignton ... ..	cm.cd.	c.	51	32	-	-	0.0
	Eastbourne ... ..	bc.	bc	47	29	0.1	-	4.2		Penzance ... ..	od.c.	bc.c.o.	54	40	4	0.3	1.9
	Brighton ... ..	bc.	bc	47	31	-	-	3.4		Newquay ... ..	oe.od.f.	mfd.	50	35	1	-	0.0
	Worthing ... ..	f.	e.bc	46	30	-	-	2.5		Bude ... ..	od.	d	52	?	-	-	0.0
	Littlehampton ... ..	f.bc.	og.	46	?	-	-	1.9		Ilfracombe ... ..	od	od	50	40	0.4	1	0.0
	Bournemouth ... ..	o	o	49	28	-	0.3	0.1		Weston-s-Mare ... ..	m.c.o.	rc.	49	35	-	0.3	?
	Tonbridge Wells ... ..	om.bc	bc	47	28	0.3	-	3.3									

SUMMARIES FOR PAST 24 HOURS.										STATIONS.		WEATHER		TEMPERATURE		RAINFALL		SUN.	
		7h-13h	13h-18h	18h-19h	1h-7h	Max. Temp. F.	Min. Temp. F.	Min. on Grass F.	Sun. on Grass F.			7h-13h	13h-18h	18h-19h	1h-7h	Day. 7h-13h	Night. 18h-7h	Hours.	Hours.
†	Houton Bay (Orkney) ...											ofe.odm	om.f.c.	cp.bc.bq.	bc.bc.o	45	35	30	1
	Eskdalemuir ...																		0.0
†	Stranraer ...																		
†	Lough Foyle ...																		
	Valencia (Cahiroveen) ...											o.bc.o	o	c.o		50	47	-	0.0
†	Anglesey (Llangefni) ...											omd	o						
	Falmouth ...											or.bc	c.om.	oc.bow	ow	52	42	35	4
†	Calshot (Hants) ...											o	h	o		48	32		0.5
†	Capel (Folkestone) ...											o.aj.	c.o.h.	ef.pa.	cd	41	37		
	Aberdeen ...											bcz.ox	om.hbm	bm.bcp		47	37	30	Trace
†	East Fortune ...											bc.c	q.c.o.	q.b.	c.o	47	42		
†	Flemford Head ...											ome	oe	o	lo	45	30		
†	Felixstowe ...											af	af	om.pa.	pd	44	30		
†	Cranwell (Lincs) ...											bc.c.bo	h.o.	o.c.o	bc.c.o	45	35		
†	Bedford ...											bc.ef	c.o.f	af.pa.	b.bzw	47	28		
	Benson ...											bm.	a			47	32	30	-
	London (Kew Obsy.) ...											ofe.bcf	bcf.bmf	om.od.om		47	31	30	0.1

**BEAUFORT NOTATION.**  
b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog. g gloom.  
h hail. i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

THE BEAUFORT SCALE OF WIND FORCE.		
No.	Statute miles per hour.	Meters 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	8-15	3.4-5.4
4	16-24	5.5-7.9
5	25-31	8.0-10.7
6	32-38	10.8-13.8
7	39-46	13.9-17.1
8	47-54	17.2-20.7
9	55-63	20.8-23.4
10	64-75	23.5-29.5
11	Above 75	33.0 or above

Suffices 0, 1 and 2 attached to Beaufort letters signify intensity, 0=light, 1=moderate, 2=heavy. Underlining is used to express continuity.

**SYMBOLS—**  
Aurora ☄ Solar halo ☉  
Rime ❄ Lunar halo ☾  
Glazed frost ❄ Solar corona ☉  
Glazed roads ☄ Lunar corona ☾

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall.	Sun- shine to Sunset.	Humidity %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.					
	Morning	Afternoon.	Night.				in.	Hours.	35 h. G.M.T.	9 h. G.M.T.		18 <sup>th</sup> & 19 <sup>th</sup> December, 1919.					
	24 HOURS ENDED IN G.M.T. 18 <sup>th</sup> ...							YESTERDAY.	TO-DAY.	Vertical Component of Solar Radiation per Square Centimetre during yesterday.			Stations.	Sunrise.	Noon.	Sunset.	
Greenwich (Royal Observatory)	o	or	of	48	33	28	-	1.9	85	95	Total .....183..... Joules.  Milliwatts.  Average Rate. 6.5  Maximum Rate. 14	Yarmouth...	8.3	11.50	3.37		
City (Bunhill Row) ...								0.4	80	92			Greenwich	8.4	11.50	3.50	
Westminster (St. James's Park)				49	34	30	0.1	0.4	80	92				Wick ...	9.2	12.9	3.16
Admiralty Arch	ofe.bq	om	od.bc	49	36	*	0.1	0.3	82	92					Valencia ...	8.48	12.38
Camden Sq. (British Rainfall)	fe.c	c.o	*	48	35	31	Trace	*	85	98	8.48	12.38				4.28	
Kensington Palace ...	o.bc.c	bc.o	*	47	32	31	1	*	18.88	98							

NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 50° or above in many parts of the west and south-west and to 45° or above in most other districts, but in the south-east of England it barely exceeded 40°. Over a large area in the north and west the day was sunless; but in several parts of East Anglia and Southern England the sunshine records ranged from 3 to 4 hours or more, the highest value being 5.0 hours at Hastings. Slight quantities of rain fell in England and Ireland and rather larger amounts in some Scottish localities; 7 mm. at Stornoway and 10 mm. (of rain and sleet) at Wick.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 21,218 FRIDAY, 19<sup>TH</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H.																												
STATIONS.	Barom. at M.S.L. m.b.	Change in 3 hours.	Wind. Direc.	Force 0-12.	Weather	Temp. °F.	Humidity %	Visibility 0-10.	Height of Low Cloud. Feet.	Low Cloud. Form.	Amt. 0-10.	Upper Cloud. Form.	Amt. 0-10.	Sea 0-9.	Barom. at M.S.L. m.b.	Change in 3 hours.	Wind. Direc.	Force 0-12.	Weather	Temp. °F.	Humidity %	Visibility 0-10.	Height of Low Cloud. Feet.	Low Cloud. Form.	Amt. 0-10.	Upper Cloud. Form.	Amt. 0-10.	Sea 0-9.
	13H. G.M.T. OF 18 <sup>TH</sup>														18H. G.M.T. OF 18 <sup>TH</sup>													
†Houton B. (Orkney)	1011.1	✓	WSW	6	odm	43	82	3	1-1000	Nb	10	-	-	*	1005.9	+1	WNW	5	C	38	75	4	-	St.	7	-	-	3
†Eskdalemuir ...																												
†Stranraer ...																												
†Lough Foyle ...																												
†Valencia (Cabre'n)	1022.2	+2	WSW	5	C	52	87	7	1-1500	Cu	3	Scu	4	4	1024.6	+9	NW	6	bq	48	65	7	2-3000	Cu	3	-	-	6
†Anglesey (Llangefni)	1015.6	-3	SSW	6	orq	47	98	2	1-1500	Nb	10	-	-	5	1015.5	+3	S	7	eq	44	75	-	1-1500	St	7	-	-	6
†Falmouth ...	1026.3	-3	SW	5	0	49	92	6	-	-	-	Acu	10	*	1023.8	-2	WNW	7	omq	51	82	5	-	St.	10	-	-	3
†Calshot (Hants) ...	1023.7	-2	SW	3	0	46	92	3	1-2000	St	9	-	-	3	1018.6	-4	SW	5	od	48	92	4	2-3000	Nb	10	-	-	4
†Capel (Folkestone)	1025.0	-4	SW	2	0	43	92	2	1-1500	St	10	-	-	1	1020.3	-4	SW	6	of	45	99	2	1-1000	St	10	-	-	4
1H. G.M.T. OF 19 <sup>TH</sup>																												
†Houton B. (Orkney)	1011.2	+3	W	6	b	36	82	0	-	Cu	2	-	-	*	1014.8	+2	NW	8	bc	38	75	7	-	St.	5	-	-	*
†Eskdalemuir ...																												
†Stranraer ...																												
†Lough Foyle ...																												
†Valencia (Cabre'n)	1035.1	+8	WNW	8	bcmq	48	*	*	*	*	*	*	*	6	1035.3	0	W	4	bc	48	82	6	2-3000	Cu	4	-	-	*
†Anglesey (Llangefni)																												
†Falmouth ...	1032.1	+11	NW	7	bq	46	65	6	-	Cu Nb	5	-	-	*	1033.3	+1	NW	6	bq	46	65	6	-	Cu	1	-	-	*
†Calshot (Hants) ...	1021.7	+3	WSW	5	b	44	75	4	-	-	-	-	-	3	1026.6	+3	WNW	5	bq	45	87	4	1-2000	Cu	1	Acu	2	4
†Capel (Folkestone)	1018.5	+4	SW	6	q	44	98	8	-	-	-	-	-	-	1021.1	+3	W	7	bq	38	82	6	1-2000	St Cu	2	Acu	1	-
†Aberdeen ...																												
†East Fortune ...	1008.0	+5	W	7	b	41	82	-	-	-	-	-	-	*	1005.0	+7	NW	8	orq	41	75	7	-	Nb	10	-	-	5
†Flamboro' Head	1008.0	+4	WNW	8	q	38	82	-	-	-	-	-	-	*	1012.4	+6	NW	5	b	41	82	-	-	-	-	-	-	*
†Felixstowe ...	1016.3	+5	N	7	q	41	82	3	-	-	-	-	-	6	1011.4	+2	SW	8	bq	40	82	7	-	-	-	Acu	2	*
†Cranwell (Lincs)	1015.9	+2	W	4	bc	39	92	4	2-3000	St	3	Acu	1	*	1017.6	+1	N	6	c	41	82	4	1-2000	St Cu	7	-	-	4
†Bedford ...	1018.9	+6	W	4	0	39	75	4	-	-	-	-	-	*	1017.2	+1	WNW	5	c	40	40	4	2-3000	St	5	Acu	3	*
Benson ...		*	*	*	*	*	*	*	*	*	*	*	*	*	1024.2	+1	W	4	bcq	43	75	4	4-5000	St Cu	5	-	-	*
London (Kew Ob.)	1020.2	+5	*	*	b	*	*	*	*	*	*	*	*	*	1022.7	+2	W	5	b	42	75	7	-	Fr Cu	1	-	-	*
(M.O. at 1h)															1022.6	+2	W	5	bq	42	75	6	-	Fr Cu	1	-	-	*
STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.																												
STATIONS.	Barom. at M.S.L. m.b.	Temp. °F.	Wind. Direc.	Force 0-12.	Weather	Barometer at M.S.L. m.b.	Change in 3 hours.	Temp. °F.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Dir. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall mm.	Temp. Max. °F.	Min. °F.	Morning.	Afternoon.	Night.	Sunshine Hours.							
	18H. G.M.T. OF 18 <sup>TH</sup>														7H. G.M.T. OF 19 <sup>TH</sup>													
Lerwick ...	998.1	42	S	7	qcm	1000.4	+19	40	0	NW	2	-	bcm	2	13	45	41	b	omq	omp.	*							
Stornoway ...	993.3	42	W	7	cpq	1014.2	+9	44	0	NW	8	-	cpq	6	10	47	38	orq	cpq	cpq	0.0							
Castlebay (Barra)	1004.1	44	W	8	op	1019.5	+7	44	-4	W	6	-	b	6	1	48	39	op	op	op	0.0							
Glasgow ...	1004.5	40	W	6	C	1014.3	+5	42	0	WNW	8	NW	bc	*	5	47	35	odpa	orcq	bq. ohl.	0.0							
Malin Head ...	1008.5	43	WSW	7	eq	1021.7	+4	46	+1	WSW	7	W	bcq	6	4	50	35	em	cmq	bcq	0.0							
Blacksod Point	1020.1	43	NW	6	cp	1029.6	+2	47	0	W	3	-	bcm	4	2	51	39	eq	bcq	bcm	0.0							
Roche's Point...	1025.0	46	NW	6	b	1035.5	+1	43	-5	W	2	-	b	3	-	54	41	0	o.b	b	0.0							
Birr Castle ...	1021.3	42	NW	4	c	1030.2	*	49	+2	NW	2	-	bc	*	2	52	42	e.b	bc	bc	0.0							
Donaghadee ...	1011.9	39	NW	8	cp	1021.8	+4	43	+1	W	7	-	bcq	6	3	51	36	omq	ompq	bcqpl.	*							
Liverpool (Bldston)	1011.7	42	W	8	r	1019.8	0	43	0	W	8	W	bc	8	5	52	39	eq	ophq	log. bc	0.0							
Holyhead ...	1015.8	45	WNW	9	cgu	1023.6	+1	46	-1	WNW	9	-	bq	7	8	51	42	bccou	ormq	l.b. bcq	0.0							
Pembroke (St. Ann's Head)	1020.0	50	W	7	bq	1030.7	+2	47	-1	WNW	6	-	bcq	6	0.2	51	46	0	ogd	bcq	0.0							
Scilly (St. Mary's)	1025.4	50	NW	6	om	1035.4	+1	47	0	NW	6	NW	b	6	-	51	46	oc	com	bq	0.0							
Jersey (St. Aubin)	1024.0	50	SW	3	0	1031.4	+1	48	+5	WNW	5	NW	b	4	Trace	51	41	coem	oemom	omdp	0.0							
Portland Bill ...	1019.8	49	WSW	5	0	1026.5	+1	47	0	WNW	7	-	bcq	6	-	55	44	bcc	cop	bcq	*							
Dungeness ...	1019.3	48	SW	4	0	1020.8	*	41	0	WNW	4	NW	b	4	1	48	38	fc	co	orq. bc	*							
Wick ...	992.8	44	W	3	omq	1002.7	+8	43	+6	W	8	-	omq	4	13	45	33	omq	ompq	omrhq	*							
Nairn ...	997.7	38	WSW	3	0	1008.9	*	42	+1	WNW	7	-	0	5	5	48	36	cgq	grecq	q.r.o.	0.0							
Leith ...	1002.8	43	W	7	r	1011.9	+2	42	-1	NW	6	-	b	4	3	49	37	eqq.c.o	poqr	nlq. b	*							
Tynemouth ...	1002.7	44	SW	5	omq	1010.9	+3	40	-1	W	4	-	bq	3	1	49	36	fox	ompq	bcq. bcq	*							
Spurn Head ...	1006.3	45	SW	6	op	1011.7	+2	40	-1	WNW	6	-	b	6	1	45	38	og	?	bq	0.0							
Yarmouth (Gorleston)	1014.0	44	WSW	5	r	1013.9	0	39	0	NNW	6	-	bq	5	3	46	38	bcm	ogmra	l.b. bcq	0.0							
Clacton-on-Sea	1017.7	43	SW	4	0	1018.9	+2	40	+2	WNW	4	-	bc	3	2	46	36	bccz	ogm	ogq. bc	0.6							
Nottingham ...	1010.3	46	SW	4	or	1018.0	*	45	+4	WNW	7	W	cp	*	6	47	38	ocm	or	orh. cp	0.0							

† Air Ministry Station. \* Information for these columns not usually received. - The barometric change is expressed in half millibars. § Longitude † at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Friday, 19th December, 1919.

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	W-WNW 15-30	Mod.	Fine; local squalls	Good	Mod.
2. E. England	W-NNW 15-25	"	Fine to cloudy	Fair	r. rough
3. E. Midlands	W-WNW 20-35	r. warm.	Fine or cloudy; local showers.	Good	-
4. W. Midlands	W-WNW 20-30	Mod.	Fair; squally.	Fair	-
5. S.W. England	WNW-NW 25-35	"	Fine or fair; squalls locally	Good	rough
6. South Wales	WNW 25-30	"	Fair; local squalls.	Fair	rough
7. North Wales	WNW 30-45	"	Fine or fair; local squalls	"	high
8. N.W. England	W-WNW 35-42	"	Fair; squally.	"	v. high
9. N. Midlands	W-NW 30-35	"	Fair or cloudy	"	-
10. N.E. England	SW-W 20-40	"	Fine; squally	v. good	r. rough
11. E. Scotland	NW 20-42	r. warm	Variable sky; local rain and squalls in North.	"	r. rough
12. S.W. Scotland	WNW 42.	"	Fair; squally.	"	rough
13. Isle of Man	W. 35.	"	Fair; squally.	Fair	"
14. N. & N.W. Scotland	W-WNW 35-42	"	Fair to dull; local rain mist and squalls.	Ord.	r. rough
15. Hebrides	-	-	-	-	-
16. Orkneys and Shetlands	W-NW 20-40	Mod.	Fair to dull; local mist and squalls.	Indiff.	Mod.
17. N.W. Ireland	W 10-20	r. warm	Fair local mist.	Ord.	Mod.
18. N.E. Ireland	WSW-W 35.	Mod.	Fair; squally; local showers.	Fair	rough
19. S.E. Ireland	W-NW 5-15	r. warm	Fair; local squalls.	"	"
20. S.W. Ireland	W. 5-15	Mod.	Fine or fair.	Good	Med.



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ○ sky & clouded. ○ sky & clouded.  
 ○ overcast sky. ○ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

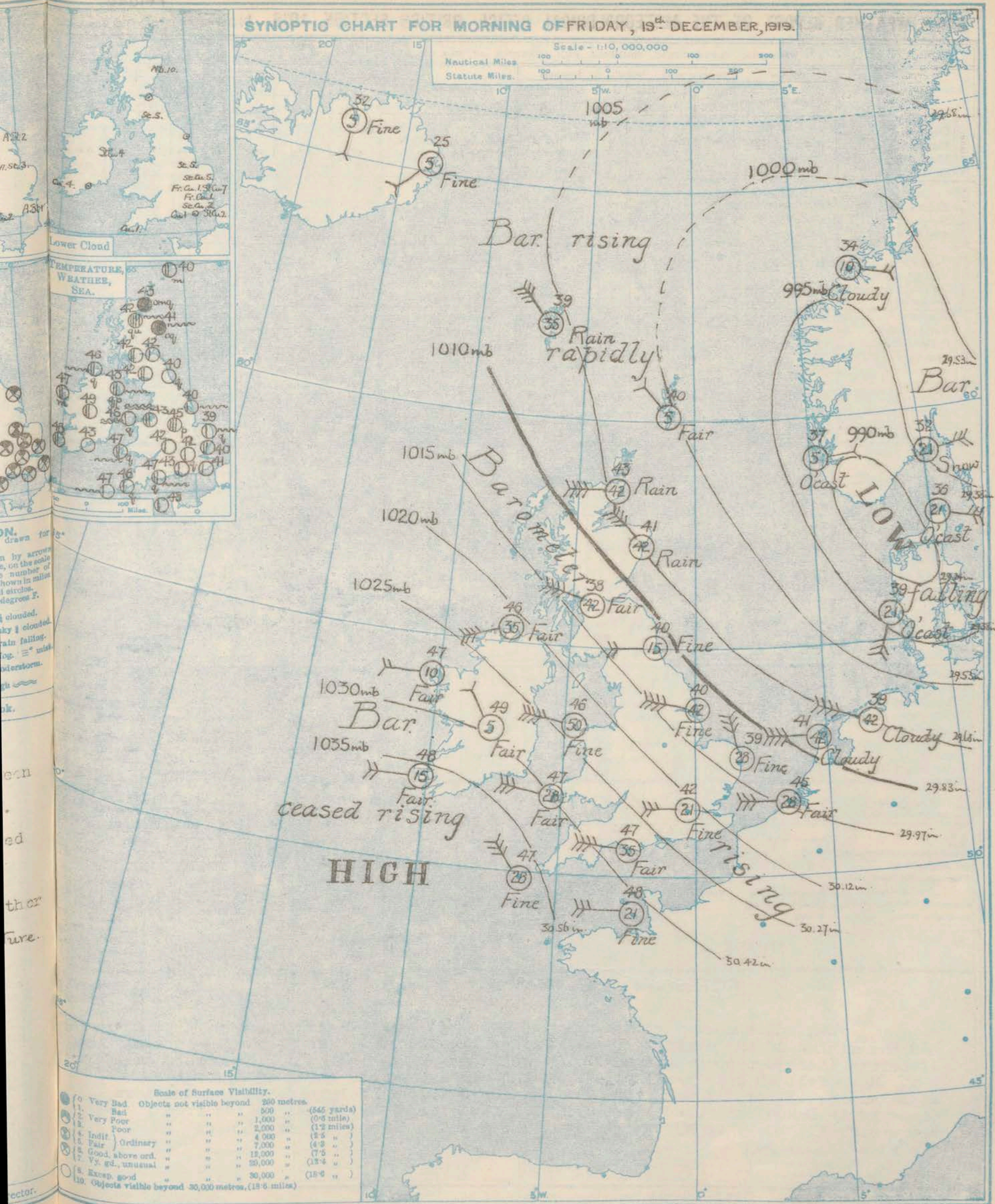
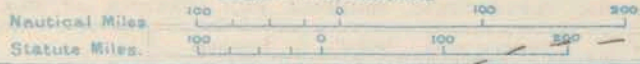
## GENERAL INFERENCE from observations received up to 9 a.m.

The deep depression centred over the North-West of Denmark will travel away, but there are already some indications of the approach of another to Ireland. The general state of the weather will therefore, continue unsettled, with the wind mainly between W. and S.W. and a moderate to mild temperature.

Districts.	Forecasts for the 24 hours commencing 3 p.m. Friday, 19th December, 1919.	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 mainly from W. backing towards S.W., fresh or strong, then moderate or light. Fair or variable sky, some local showers today, less fair tomorrow. Moderate or mild temperature. Good to fair visibility.	Wind between S.W. and N.W. with unsettled weather and generally rather mild temperature.
11. E. Scotland 12. S.W. Scotland 13. Isle of Man 14. N. & N.W. Scotland 15. Hebrides 16. Orkneys and Shetlands	Wind N.W. to S.W., strong to moderate, changeable, some showers of rain or hail. Temperature moderate or rather high for time of year.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind between W. and S., force variable; Changeable, some showers. Moderate temperature.	



SYNOPTIC CHART FOR MORNING OF FRIDAY, 19<sup>th</sup> DECEMBER, 1919.



#### Scale of Surface Visibility.

0	Very Bad	Objects not visible beyond	200 metres	
1	Bad	"	500 "	(545 yards)
2	Very Poor	"	1,000 "	(0.6 mile)
3	Poor	"	2,000 "	(1.2 miles)
4	Indif.	"	4,000 "	(4.5 "
5	Fair	"	7,000 "	(4.3 "
6	Good above ord.	"	15,000 "	(7.5 "
7	Vy. gd., unusual	"	30,000 "	(13.4 "
8	Excep. good	"	30,000 "	(13.6 "
10	Objects visible beyond 30,000 metres, (13.6 miles)			



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 353 B

Friday,  
19th December

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

WESTERN PORT DISTRICT.										EASTERN PORT DISTRICT.									
STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		RAINFALL.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-18h. 17h.	Day. 18h-17h. 18h.	Sunrise to Sun- set. 18h.	Forenoon.			Afternoon.	Max. ° F.	Min. ° F.	Night. 17h-18h. 17h.	Day. 18h-17h. 18h.	Sunrise to Sun- set. 18h.		
Scotland.	Oban ... ..									England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	co	cp	48	37	1	1	0.0			Blackpool ... ..	org	org	48	40	0.4	1	0.0	
	Montrose ... ..										Southport ... ..	o	roc	48	40	0.1	4	0.0	
	St. Andrews ... ..																		
England, N.E.	Harrogate ... ..	oc	ocp	46	39	-	0.2	0.0		Midlands.	Buxton ... ..	-	-	47	37	0.2	1	0.0	
	Skegness ... ..	ocbc	or	43	29	-	-	0.2			Leamington Spa ... ..	bcc	cbc	50	41	0.3	1	0.0	
	Scarboro' ... ..	-	-	46	42	1	-	0.0			Malvern ... ..	comg	oqdoq	51	35	-	0.2	0.0	
											Ross-on-Wye ... ..								
England, E.	Felixstowe ... ..	cgfw	ogm	43	31	0.2	-	0.7		Wales.	Rhyl ... ..								
	Walton-on-Naze ... ..										Colwyn Bay ... ..	-	-	53	45	-	3	-	0.0
	Southend-on-Sea ... ..	ampcm	corq	45	38	0.4	0.2	0.2			Llandudno ... ..	opq	opq	53	46	11	11	-	0.0
	Lowestoft ... ..			44	37	0.4	-	0.2			Aberystwyth ... ..	or	co	49	46	*	*	-	0.0
England, S.E.	Margate ... ..	-	-	47	36	1	-	0.0		England, S.W.	Weymouth ... ..	co	o	50	42	0.2	-	-	0.0
	Ramsgate ... ..	o	bc	45	38	1	-	0.0			Teignmouth ... ..								
	Folkestone ... ..	f	fmed	47	41	-	2	0.1			Torquay ... ..	o	o	50	42	-	-	-	0.0
	Hastings ... ..										Paignton ... ..	cod	o	52	40	Trace	Trace	-	0.0
	Eastbourne ... ..	cbc	bcodo	50	41	1	0.1	1.5			Penzance ... ..	oc	od	52	44	-	0.2	-	0.0
	Brighton ... ..	oc	oc	49	40	-	1	0.0			Newquay ... ..	ocm	omodo	51	43	-	0.2	-	0.0
	Worthing ... ..	bc	o	46	39	-	-	0.5			Bude ... ..	o	d	52	41	-	-	-	0.0
	Littlehampton ... ..	og	bs	47	42	-	-	0.4			Ilfracombe ... ..		odf	51	46	1	1	-	0.0
	Bournemouth ... ..			49	40	1	0.3	0.2			Weston-s-Mare ... ..								
	Tunbridge Wells ... ..	bcc	or	47	36	1	-	1.2											

## STATIONS.

## SUMMARIES FOR PAST 24 HOURS.

STATIONS.	WEATHER		Max. Temp. °F.	Min. Temp. °F.	Min. on Grass °F.	RAINFALL.		Sun. Hours.
	7h-13h	13h-18h				Day 7h-18h	Night 18h-7h	
†Houton Bay (Orkney) ... ..	odmorm	clrh	45	33	32	12	3	0.0
†Eskdalemuir ... ..		chaantlhedmch						
†Stranraer ... ..								
†Lough Foyle ... ..								
Valencia (Cahiriveen) ... ..	ode	obcyq	53	47	43	1	-	0.2
†Anglesey (Llangefni) ... ..	rg	rg						
Falmouth ... ..	oco	odog	51	44	41	1	-	0.1
†Calshot (Hants) ... ..	co	r	50	40	*	*	*	*
†Capel (Folkestone) ... ..	co	cz	45	35	*	*	*	*
Aberdeen ... ..	cmog	odocq	47	36	34	0.3	3	0.0
†East Fortune ... ..	co		49	39	*	*	*	*
†Flamborough Head ... ..	oz	pg	46	30	*	*	*	*
†Felixstowe ... ..	cz	?	47	37	*	*	*	*
†Cranwell (Lincs) ... ..	co b.o	or	47	35	*	*	*	*
†Bedford ... ..	bccz	omr	48	38	*	*	*	*
Benson ... ..	om	o	49	34	32	0.3	0.1	*
London (Kew Obsy.) ... ..	bcm cfc	omoto	50	40	35	0.2	1	0.2

## BEAUFORT NOTATION.

b blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog. g gloom.  
h hail. i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

## THE BEAUFORT SCALE OF WIND FORCE.

No.	Limits of Velocity.	
	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

Suffixes 0.1 and 2 attached to Beaufort letters signify intensity, 0 = slight, 2 = heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ☃ Lunar halo ☾  
Glazed frost ☑ Solar corona ☼  
Glazed roads ☐ Lunar corona ☾

## LONDON OBSERVATIONS.

LONDON. OBSERVATIONS.	WEATHER.			Max. Temp.	Min. Temp.	Min. on Grass.	Rain- fall.	Sun- shine to Sunset.	HUMIDITY %	
	Morning	Afternoon.	Night.	° F.	° F.	° F.	mm.	Hours.	15 h. G.M.T.	9 h. G.M.T.
	24 HOURS ENDED 9h G.M.T. ... 19 <sup>th</sup> ...							YESTERDAY.	TO-DAY.	
Greenwich (Royal Observatory)	c. o	o. cr.	or	49	38	31	1	0.9	81	72
City (Bunhill Row) ... ..	*	*	*	*	*	*	*	0.9	*	*
Westminster (St. James's Park) ... ..	*	*	*	50	39	32	1	0.0	85	70
Admiralty Arch ... ..	bcmom	om	om-b. bc	50	41	*	1	0.0	82	71
Camden Sq. (British Rainfall)	bcm. c	o. or	*	49	39	33	1	*	85	75
Kensington Palace ... ..	o. od.	o	*	48	39	35	1	*	18.87	71

## SOUTH KENSINGTON (Meteorological Office).

Vertical Component of Solar Radiation per Square Centimetre during yesterday.	
Total ... .. 99	Joules.
Average Rate. 3.5	Milliwatts.
Maximum Rate. 12	

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

19th & 20th December 1919.			
Stations.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth ... ..	8.3	11.50	3.37
	8.4	11.51	3.38
Greenwich ... ..	8.4	11.57	3.50
	8.5	11.58	3.51
Wick ... ..	9.2	12.9	3.16
	9.3	12.10	3.17
Valencia ... ..	8.48	12.38	4.28
	8.49	12.39	4.29

## NOTES ON THE WEATHER OF YESTERDAY.

Maximum temperature readings between 45° and 50° were again very general, and the minima of the night were also rather high for the time of year. In most districts there was no bright sunshine, but some places in the S.E. recorded about 1 h. Rain fell at nearly all stations, the highest values being 15 m.m. at Eskdalemuir, 13 m.m. at Wick and Lerwick, and 8 m.m. at Holyhead. A thunderstorm occurred at Eskdalemuir and lightning at a few other localities. Gales from between S. W. and W. or N.W. were experienced later in the day or at night on almost all coasts.





No 21,212 B SATURDAY, 20<sup>TH</sup> DECEMBER 1919.

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† Air Ministry Station. \* Information for these columns not usually received. ‡ The barometric change is expressed in half millibars. § Longside † at 14.



# SUMMARY OF CONDITIONS AT 7 A.M. Saturday, 20th December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	SW. 0-10	Mod.	Dull, local mist.	Poor	Slight
2. E. England	WSW. 0-10	R. cold	Fair to dull, local mist and drizzle.	"	Smooth
3. E. Midlands	SW-W. 0-5	R. mild	Dull	Ord.	-
4. W. Midlands	W. 0-10	"	Dull	"	-
5. S.W. England	WNW. 10-15	Moderate	Fair to dull, local mist.	Poor	R. rough
6. South Wales	W. 10	R. mild	Dull	Good	Mod.
7. North Wales	W-NW. 15-20	"	Fair to dull.	Fair	"
8. N.W. England	Wly. 10-20	"	Dull, local mist & drizzle	Ord.	"
9. N. Midlands	Wly. 0-10	"	Dull.	"	-
10. N.E. England	SW. 5-10	"	Dull, local mist.	Poor	Slight
11. E. Scotland	W. 0-10	Mild	Fair	Good	"
12. S.W. Scotland	SW-W. 5-15	R. mild	Cloudy	Good	Smooth
13. Isle of Man	W-NW. 0-10	"	Cloudy	Fair	"
14. N. & N.W. Scotland	W. 0-10	"	Fair or cloudy.	"	Slight
15. Hebrides	W. 0-10	"	Cloudy	"	Mod.
16. Orkneys and Shetlands	W-S. 0-10	"	Fine to fair	Good	Slight
17. N.W. Ireland	W-SW. 5-10	Mild	Overcast, drizzle, mist.	Poor	"
18. N.E. Ireland	SW-W. 0-5	"	Overcast, mist.	"	Smooth
19. S.E. Ireland	SW-W. 0-10	R. mild	Overcast	Fair	"
20. S.W. Ireland	SW-NW. 5-15	"	Overcast, some drizzle	"	Slight

Upper Cloud

Visibility

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. \* hail. = fog. = mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

GENERAL INFERENCE from observations received up to 9 a.m.

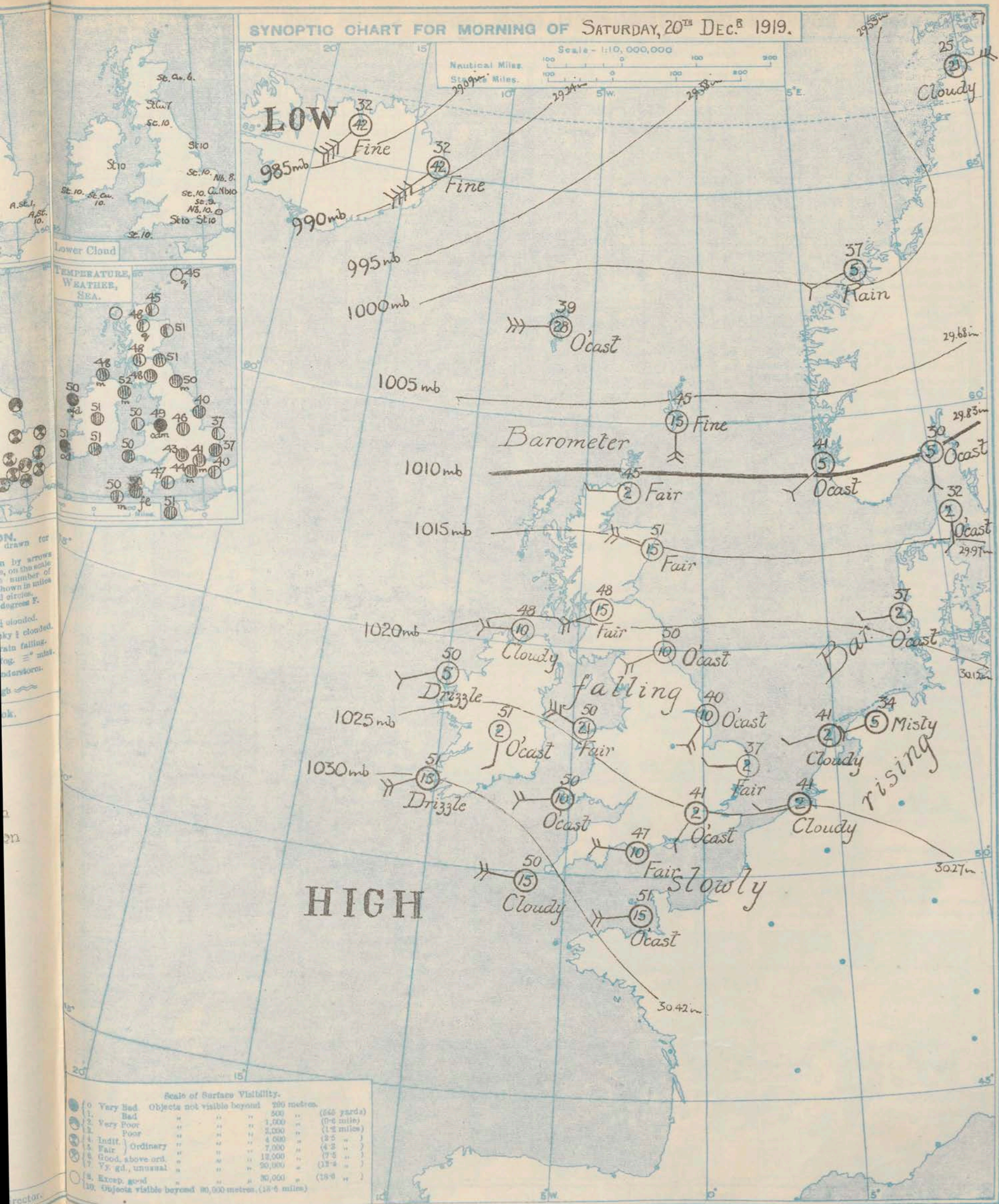
The pressure distribution is favourable for the passage of further secondary depressions from west to east over the British Isles, and mild unsettled weather, with light or moderate winds between SW. and W., is consequently likely to continue.

Districts.	Forecasts for the 24 hours commencing 3 p.m. Saturday, 20th December, 1919	Further Outlook.
1. S.E. England	Wind between SW. and W. light or moderate. Generally dull, slight rain at times, mist locally. Indifferent or poor visibility. Mild.	Mild, unsettled weather with winds between SW. and W., continuing.
2. E. England		
3. E. Midlands		
4. W. Midlands		
5. S.W. England		
6. South Wales	Wind SW. or W. light or moderate to fresh. Mainly dull, some rain, mist locally. Visibility generally poor. Mild.	
7. North Wales		
8. N.W. England		
9. N. Midlands		
10. N.E. England		
11. E. Scotland	Wind between SW. and W. or NW., light or moderate, stronger at times. Dull or cloudy, some rain and mist. Visibility poor or indifferent. 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		



# SYNOPTIC CHART FOR MORNING OF SATURDAY, 20<sup>TH</sup> DEC.<sup>R</sup> 1919.

Scale - 1:10,000,000  
Nautical Miles 100 0 100 200 300  
Statute Miles 100 0 100 200 300





# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No 354. B

Saturday,  
20<sup>th</sup> December.

WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 19 <sup>th</sup> .....																			
STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.		STATIONS.		WEATHER.		TEMPERATURE.		Rainfall.		SUNSHINE.	
		Forenoon.	Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 18 <sup>th</sup> .	Day. 9h-17h. 19 <sup>th</sup> .	Sunrise to Sunset 19 <sup>th</sup> .	Forenoon.			Afternoon.	Max. F.	Min. F.	Night. 17h-9h. 18 <sup>th</sup> .	Day. 9h-17h. 19 <sup>th</sup> .	Sunrise to Sunset 19 <sup>th</sup> .		
Scotland.	Oban ... ..	ro	co	47	38	4	-		1.1	England, N.W.	Douglas (I.O.M.)								
	Banff ... ..	oge	cbe	44	35	9	0.1		0.2		Blackpool ... ..								
	Montrose ... ..										Southport ... ..	ocbc	bcbc	46	40	1	-		1.8
	St. Andrews ... ..	-	-	45	36	-	-		2.8										
England, N.E.	Harrogate ... ..	bec	cbeb	45	34	5	0.1		3.5	Midlands.	Buxton ... ..								
	Skegness ... ..	b	b	46	37	1	-		5.0		Leamington Spa... ..			48	38	1	-		1.2
	Scarboro			50	43	1	-		5.0		Malvern ... ..	bc	bcb	47	40	0.2	-		8
											Ross-on-Wye ... ..	ecbcq	bq,beb	48	41	-	-		3.3
England, E.	Felixstowe ... ..	ogrh	bq	46	40	4	-		1.7	Wales.	Rhyl ... ..	rc	pebcc	46	40	2	0.2		1.5
	Walton-on-Naze...										Colwyn Bay ... ..			47	42	-	-		1.2
	Southend-on-Sea...	ocq	bcbq	47	37	2	-		0.3		Llandudno ... ..	bc	bc	53	42	-	-		1.4
	LOWESTOFT	bcco	cocq	46	38	2	-		1.5		Aberystwyth ... ..	roc	bco	47	44	8	8		1.0
England, S.E.	Margate ... ..			46	36	1	-		0.0	England, S.W.	Weymouth ... ..	qbc	bcb	49	43	-	-		1.3
	Ramsgate ... ..	o	o	45	37	1	-		0.0		Teignmouth ... ..								
	Folkestone ... ..	o	o	47	42	3	-		0.1		Torquay ... ..	bcc	bcc b	50	44	-	-		1.7
	Hastings ... ..	bbeo	b	49	38	1	-		3.2		Paignton ... ..	bc	bcb	51	45	-	-		2.5
	Eastbourne ... ..	bcc	cbeb	49	40	1	-		2.3		Penzance ... ..	bc	bcc	51	46	-	-		3.2
	Brighton ... ..	bcbq	bcb	49	40	1	-		3.0		Newquay ... ..	bcbbc	bco	49	47	-	-		2.4
	Worthing ... ..	bc	b	49	40	0.3	-		3.4		Bude ... ..	ocbc	c, d	51	44	-	-		1.8
	Littlehampton ... ..	bc	bc	50	41	-	-		4.2		Ilfracombe ... ..	cbe	co	49	46	-	-		0.7
	Bournemouth ... ..	-		48	42	0.3	-		3.0		Weston-s-Mare ... ..	bcc	bbe	47	42	0.3	-		1.2
	Tunbridge Wells	bco	ocb	48	39	1	-		0.3										

SUMMARIES FOR PAST 24 HOURS.										THE BEAUFORT SCALE OF WIND FORCE.		
STATIONS.		WEATHER.				Max. Temp. F.		Min. Temp. F.		Rainfall.		No.
		7h-18h 19h.	18h-18h 19h.	18h 19h-1h 20h.	1h-7h 20h.	Temp. F.	Temp. F.	Min. on Grass F.	Hours.	Day. 7h-18h.	Night. 18h-7h.	
†Houton Bay (Orkney)...		bc-b	bcbq, bc	bc, c, o, ad, m	admo	49	37	39	*	*	*	1
†Eskdalemuir ...												2
†Stranraer ...												3
†Lough Foyle ...												4
†Valencia (Cahiriveen) ...		bco	odo	od		52	44	49	*	*	*	5
†Anglesey (Llangefni) ...		cog	co	o, o, q	o, q, f	51	45	46	*	*	*	6
†Falmouth ...		bq	bccod	o, o, q	o, q, f	48	39	*	*	*	*	7
†Calshot (Hants) ...		q	bcc	o	o	48	39	*	*	*	*	8
†Capel (Folkestone) ...			q	q, b, bc	o, m, q	46	35	*	*	*	*	9
Aberdeen ...		bc, rhq	cbeb	bc, o, r, c		51	37	33	3	1	0.8	10
†East Fortune ...		bcc	bcbz	p		-	*	*	*	*	*	11
†Flamborough Head ...		q	bcbq	b, bc	o	45	33	*	*	*	*	12
†Felixstowe ...		bccq	bccq	b, bcq	b, bcq	47	34	*	*	*	*	
†Cranwell (Lincs) ...		bbec	b, bc	b	emp	46	33	*	*	*	*	
†Bedford ...												
Benson ...		b	b	bd, o		48	32	25	-	1	*	
London (Few Obs.) ...		bq, c, b, q, y	bq, y, z, b	bm, o, m, d, m		49	35	25	Trace	0.1	0.8	

LONDON. OBSERVATIONS.		WEATHER.			Max. Temp. ° F.	Min. Temp. ° F.	Min. on Grass. ° F.	Rain- fall. inches.	Sun- shine to Sunset. Hours.	HUMIDITY %		SOUTH KENSINGTON (Meteorological Office).	TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM.				
		Morning.	Afternoon.	Night.						15 h. G.M.T.	9 h. G.M.T.		Stations.	Sunrise.	Noon.	Sunset.	
24 HOURS ENDED 9H G.M.T. 20 <sup>th</sup>										YESTERDAY.		TO-DAY.		20 <sup>th</sup> & 21 <sup>st</sup> December..... 1919.			
Greenwich (Royal Observatory)	a	c	bc. afr	48	34	24	1	0.6	61	94	Vertical Component of Solar Radiation per Square Centimetre during yesterday.						
City (Bunhill Row) ...	*	*	*	*	*	*	*	0.0	*	*				G.M.T.	G.M.T.	G.M.T.	
Westminster (St. James's Park)	*	*	*	49	34	23	0.4	0.8	59	97				Yarmouth...	8.4	11.51	3.38
" (Admiralty Arch)	bm	bcmq	bcm, bm.	50	38	*	0.2	0.2	62	93				Greenwich	8.5	11.58	3.51
Camden Sq. (British Rainfall)	*	*	*	49	34	29	1	*	67	100				Wick	9.3	12.10	3.17
Kensington Palace ...	b	b	*	49	34	27	1	*	114.72	93	Total..... 16.7..... Joules.			Valencia ...	8.49	12.39	4.29
											Average Rate. 6.0						
											Maximum Rate. 13						
											Milliwatts.						

## NOTES ON THE WEATHER OF YESTERDAY.

Bright sunshine was more general than of late, the records ranging from 5 hours on the coasts of Yorkshire and Lincolnshire, 4.2 hours at Littlehampton, and 3.5 hours at Harrogate to between 2 and 3 hours in many other localities. Temperature rose to 50° or to within a few degrees of it in nearly all districts. Rain fell very generally, but the amount was mostly slight.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21,213.B SUNDAY, 21<sup>ST</sup> DECEMBER, 1919.

OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1h, 7h, 13h AND 19h.																														
STATIONS.	BAROM.	†	WIND.		Weather.	TEMP.	Humidity.	Visibility.	Height	Low Cloud.		Upper Cloud.		Sea.	BAROM.	†	WIND.		Weather.	TEMP.	Humidity.	Visibility.	Height	Low Cloud.		Upper Cloud.		Sea.		
	at	Change	Direc.	Force		°F.	%	0-10.	Feet.	Form.	Am't.	Form.	Am't.		0-9.	at	Change	Direc.		Force	°F.	%	0-10.	Feet.	Form.	Am't.	Form.		Am't.	0-9.
	M.S.L.	in 3		0-12.							0-10.				0-10.		M.S.L.	in 3			0-12.						0-10.			
13h. G.M.T. of 20 <sup>th</sup>															19h. G.M.T. of 20 <sup>th</sup>															
†Houton B. (Orkney)	1018.2	-4	SW	3	cp	46	82	5	2-3000	Scu	6	Cl. 5	1	*	1014.6	-4	S	1	odm	44	98	4	1-1500	Nb	10	-	-	*		
†Eskdalemuir ...														*													*			
†Stranraer ...														*													*			
†Lough Foyle ...														*													*			
Valencia (Cahire'n)	1026.4	-5	SW	4	0	52	92	7	1-1000	Scu	9	-	-	4	1023.0	-4	SW	4	0	52	92	6	1-1000	Scu	10	-	-	4		
†Anglesey (Llangefni)	1024.5	-2	WSW	3	0	49	98	3	1-1500	Scu	10	-	-	3	1019.3	-4	SW	5	0	48	98	-	3-4000	Scu	10	-	-	4		
Falmouth ...	1029.0	-2	W	3	0	52	92	4	-	Ca. N.	4	ASr	5	*	1026.4	-2	W	4	bz	50	92	6	-	Scu	1	-	-	*		
†Calshot (Hants) ...	1025.6	-2	SW	1	0	49	98	3	1-1500	Scu	10	-	-	5	1023.9	0	WSW	1	od	51	92	3	1-1500	Nb	10	-	-	1		
†Capel (Folkestone)														*	1023.1	-2	WSW	3	0	42	98	3	1-1000	Scu	10	-	-	*		
Aberdeen ...	1014.9	-2	WSW	2	om	47	65	6	-	Scu	9	-	-	2	1012.2	-3	SW	3	bz	45	75	6	-	Scu	6	-	-	2		
†East Fortune ...	1016.4	-2	W	4	02	49	82	5	3-4000	Scu	7	A. Cu	2	*	1014.0	-4	WSW	2	od	45	87	-	2-3000	Nb	10	-	-	*		
†Flamborough Head	1019.1	-2	WSW	4	0	48	98	4	2-3000	Scu	10	-	-	*	1017.3	-2	WSW	4	0	48	92	3	1-2000	Scu	10	-	-	*		
†Felixstowe ...	1022.6	-4	WNW	1	02	44	98	1	1-1500	Scu	10	-	-	3	1021.3	-2	NNW	1	0	47	98	3	1-1500	Scu	10	-	-	2		
†Cranwell (Lincs) ...	1020.9	-2	W	3	02	50	98	5	1-1500	Nb	7	A. Sc	3	*	1019.5	-1	WSW	3	02	49	92	4	2-3000	Scu	6	A. Sc	4	*		
†Bedford ...														*													*			
Benson ...	1023.1	-2	SW	1	0	50	92	3	-	-	-	-	-	*	1022.3	-1	SW	1	0	50	98	4	-	Scu	10	-	-	*		
London (Kew Obs.)	1023.2	-6	W	3	om	51	98	4	3-4000	Ca	9	-	-	*	1022.5	-1	WSW	1	om	50	92	4	-	Scu	8	A. Sc	2	*		
1h. G.M.T. of 21 <sup>st</sup>															7h. G.M.T. of 21 <sup>st</sup>															
†Houton B. (Orkney)	1007.8	-6	SW	5	orm	47	98	4	-	Nb	10	-	-	*	1003.1	-4	NNW	3	c	41	82	6	-	Scu	8	-	-	*		
†Eskdalemuir ...														*													*			
†Stranraer ...														*													*			
†Lough Foyle ...														*													*			
Valencia (Cahire'n)	1014.4	-6	SSW	4	om	51	*	*	*	*	*	*	*	0	1005.7	+6	NW	4	c	48	92	7	-	Scu	8	-	-	*		
†Anglesey (Llangefni)														*													*			
Falmouth ...	1023.0	-5	WSW	5	0	49	92	5	-	Nb	10	-	-	*	1015.5	-8	WSW	6	dy	50	92	1	-	Nb	10	-	-	*		
†Calshot (Hants) ...														*													*			
†Capel (Folkestone)	1020.5	-2	SW	5	om	40	98	7	1-2000	Nb	10	-	-	*													*			
Aberdeen ...														*	1001.8	-5	SW	1	c	38	92	7	-	Scu	7	-	-	2		
†East Fortune ...	1007.8	-5	-	0	02	43	87	-	1-2000	Nb	10	-	-	*	1002.8	-3	WSW	3	d	42	98	4	1-1500	Scu	10	-	-	*		
†Flamborough Head	1010.6	-2	WSW	6	02	44	98	3	1-1500	Scu	10	-	-	*	1002.8	-3	WSW	3	d	42	98	4	1-1500	Scu	10	-	-	*		
†Felixstowe ...	1010.6	-5	WNW	3	0	48	92	3	1-1500	Scu	10	-	-	3	1007.3	-4	W	3	0	46	98	4	1-1500	Scu	10	-	-	3		
†Cranwell (Lincs) ...	1013.7	-3	W	4	02	41	92	4	2-3000	Scu	2	-	-	*	1004.8	-6	SW	5	02	49	92	7	1-1500	Nb	10	-	-	*		
†Bedford ...														*													*			
Benson ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.2	-9	WSW	5	0	49	92	6	-	Scu	10	-	-	*		
London ...	1010.1	-5	*	*	0	*	*	*	*	*	*	*	*	*	1010.3	-7	WSW	4	0	50	87	6	-	Scu	10	-	-	*		
(M.O. at 1h.)																														
STATIONS CONTRIBUTING REPORTS AT 7h AND 19h.																														
STATIONS.	BAROM.	TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.		WIND.		Direc. of Upper Cloud.	Weather.	Sea.	Rainfall mm.	TEMP.		WEATHER.			Sunshine Hours.									
	at	°F.	Direc.	Force		at	Change	Temp.	Change	Direc.	Force					Max.	Min.	Morning.	Afternoon.	Night.										
	M.S.L.			0-12.		M.S.L.	in 3 hours.	°F.	in 24 hours.		0-12.					°F.	°F.	°F.	°F.	°F.										
19h. G.M.T. of 20 <sup>th</sup>															7h. G.M.T. of 21 <sup>st</sup>														24 HOURS ENDED 7h. 21 <sup>st</sup>	
Lerwick ...	1006.0	41	W	1	bcm	996.2	-6	38	-7	SW	4	-	bcm	3	6	47	38	om	omp.	bcm	*									
Stornoway ...	1010.1	42	WSW	2	0	999.3	-5	38	-5	WSW	1	-	b	1	3	46	36	or	odp.	odp.	0.0									
Castlebay (Barrats)	1011.8	45	W	3	02	1002.7	-4	43	-5	W	5	-	bc	4	3	49	40	odp.	odp.	0.0										
Glasgow ...	1013.7	44	SW	2	orm	1003.6	-3	40	-8	WSW	2	-	0	*	4	48	40	bcco	odp.	odp.	0.0									
Malin Head ...	1013.1	45	-	0	orm	1004.8	-2	43	-5	W	4	W	0	4	14	49	43	fe	fe	cp	0.0									
Blacksod Point	1016.3	50	SW	3	orm	1011.5	+3	45	-5	WNW	3	-	bc	2	6	51	42	ofd	omd	omd.	*									
Roche's Point...	1024.4	51	W	3	c	1011.5	-4	49	-1	WNW	5	-	bc	4	3	53	48	0	oc	odp.	*									
Birr Castle ...	1020.4	51	S	1	0	1010.0	*	47	-4	S	1	-	0	*	10	51	42	0	od	odp.	0.0									
Donaghadee ...	1015.3	51	WSW	3	om	1006.3	-2	44	-8	W	3	-	c	3	2	52	43	omd	om	omd	*									
Liverpool (Bidston)	1019.4	49	W	3	0	1001.9	-6	50	+1	WSW	3	-	r	3	8	53	47	og	ogd	or	0.0									
Holyhead ...	1018.8	50	WSW	5	og	1004.6	-6	50	0	NW	5	-	r	4	4	51	48	bcofe	occu	odp.	0.0									
Pembroke (St. Ann's Head)	1023.6	49	W	4	oc	1008.9	-8	49	-1	W	7	-	orq	6	1	50	49	0	oc	odp.	0.0									
Scilly (St. Mary's)	1028.6	50	WNW	4	cm	1016.5	-6	50	0	W	6	W	0	6	1	52	49	om	ocmp	om	0.4									
Jersey (St. Aubin)	1027.1	51	W	4	oc	1018.6	-3	50	-1	WSW	6	-	0	4	1	52	48	oc	oc	b. op	0.0									
Portland Bill ...	1024.4	50	WNW	4	c	1013.1	-4	49	+2	WSW	5	-	orq	5	-	52	47	bc	bcc	og	*									
Dungeness ...	1022.1	46	WSW	3	om	1012.0	-4	47	+7	WSW	5	SW	c	4	0.3	48	39	codom	om	o. ca. c. op	*									
Wick ...	1008.4	42	WSW	2	om	999.6	-6	36	-9	SW	3	-	bc	2	0.2	45	37	om	omp	b. bc	*									
Nairn ...	1010.9	43	W	1	c	1000.9	*	37	-11	0	-	-	bc	1	0.3	49	36	bccg	cj	pc	0.2									
Leith ...	1013.3	45	SW	1	r	1002.3	-2	41	-10	W	1	-	0	2	3	51	40	c. bc. c. o	omd	odp.	*									
Tynemouth ...	1015.3	46	W	2	0	1002.1	-3	45	-5	NW	1	-	omd	2	5	51	44	om	om	omr.	*									
Spurn Head ...	1017.0	47	W	2	om	1002.2	-4	47	+7	WSW	3	-	op	3	1	47	40	omf	om	bc. o	*</									

† Air Ministry Station.

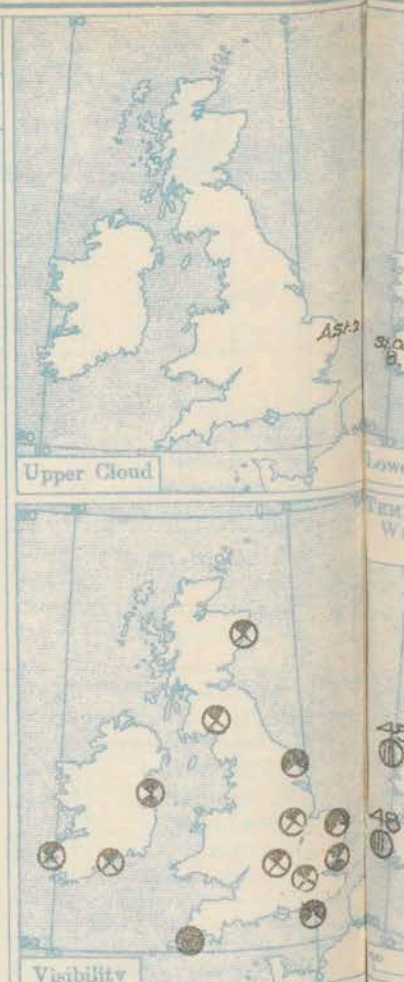
\* Information for these columns not usually received.

‡ The barometric change is expressed in half millibars. § Longside † at 1h.



# SUMMARY OF CONDITIONS AT 7 A.M. Sunday, 21st December, 1919

Districts.	Wind. Velocity in m.p.h.	Temperature.	Weather, Cloud and Precipitation.	Visibility.	Sea.
1. S.E. England	WSW. 15-35	Mild	Dull, some mist or fog.	Var.	R. rough
2. E. England	W-SW. 10-15	"	Dull, some slight rain.	"	Slight
3. E. Midlands	WSW. 10-20	"	Dull, some drizzling rain.	Good	-
4. W. Midlands	W. 10-20	"	Dull, some rain.	Fair	-
5. S.W. England	W. 30-35	R. mild	Overcast, squally, some rain or drizzle.	Poor	R. rough
6. South Wales	W. 25-35	"	Dull, some rain, squally.	Fair	Rough
7. North Wales	NW-W. 15-25	"	Overcast, rain, mist locally.	Var.	Mod.
8. N.W. England	Var. 5-10	Mild	Dull, rain	Ord.	Slight
9. N. Midlands	Var. 5-10	"	Dull, some rain	"	-
10. N.E. England	NW-SW. 0-10	"	Overcast, showers or drizzle, local mist.	Var.	Slight
11. E. Scotland	W. 0-10	Mod.	Fair to overcast.	Good	Smooth
12. S.W. Scotland	SW-NW. 5-10	R. mild	Dull.	Fair	Slight
13. Isle of Man	NW. 15-25	Mod.	Cloudy	Good	"
14. N. & N.W. Scotland	WSW. 0-10	"	Fair or cloudy.	Ord.	Smooth
15. Hebrides	SW. 0-10	"	Fine	"	"
16. Orkneys and Shetlands	SW. 15	"	Fair, some mist.	"	Slight
17. N.W. Ireland	W-NW. 10-15	"	Fair to overcast.	Fair	"
18. N.E. Ireland	NW. 5-15	"	Dull, mist locally.	Ord.	"
19. S.E. Ireland	NW. 5-20	R. mild	Dull, some rain.	"	Mod.
20. S.W. Ireland	NW. 15	"	Fair or cloudy.	Good	"



## GENERAL INFERENCE from observations received up to 9 A.M.

The trough of low pressure over our western districts will move eastward and cause strong winds or gales from W. veering towards NW. over southern England. The pressure distribution is likely to continue favourable for the approach of other depressions from the Atlantic.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrow pointing 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 & clouded. ☂ sky & clouded. ☄ overcast sky. ☔ rain falling. \* snow. △ hail. ≡ fog. ≡ mist. T thunder. F thunderstorm.  
**SEA DISTURBANCE.**  
 ~~~~~ Rough ~~~~~ High ~~~~~

| Districts.                | Forecasts for the 24 hours commencing 3 p.m. Sunday, 21st December, 1919                                                                                         |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S.E. England           | Wind W., veering somewhat, strong, a gale in places, moderating later, squally. Dull to variable sky, some rain. Mild, then colder. Visibility moderate to good. |
| 2. E. England             |                                                                                                                                                                  |
| 3. E. Midlands            |                                                                                                                                                                  |
| 4. W. Midlands            | Wind W. veering somewhat, fresh or strong to moderate, squally. Dull, some rain, then improving. Mild then colder. Visibility moderate to good.                  |
| 5. S.W. England           |                                                                                                                                                                  |
| 6. South Wales            | Wind W. and NW., strong to a gale, then moderate, squally. Changeable, some rain. Colder. Visibility generally good.                                             |
| 7. North Wales            |                                                                                                                                                                  |
| 8. N.W. England           | Wind W. or NW. moderate or fresh, strong locally. Dull, some rain, then improving. Colder. Visibility moderate to good.                                          |
| 9. N. Midlands            |                                                                                                                                                                  |
| 10. N.E. England          |                                                                                                                                                                  |
| 11. E. Scotland           |                                                                                                                                                                  |
| 12. S.W. Scotland         | Wind mainly W. light or moderate, fresh locally. Cloudy or dull, some rain, hail or snow. Moderate or rather low temperature. Visibility mainly fair to good.    |
| 13. Isle of Man           |                                                                                                                                                                  |
| 14. N. & N.W. Scotland    |                                                                                                                                                                  |
| 15. Hebrides              |                                                                                                                                                                  |
| 16. Orkneys and Shetlands |                                                                                                                                                                  |
| 17. N.W. Ireland          | Wind NW. backing later, fresh or strong to moderate. Changeable, showery, hail locally. Colder than of later. Visibility generally good.                         |
| 18. N.E. Ireland          |                                                                                                                                                                  |
| 19. S.E. Ireland          |                                                                                                                                                                  |
| 20. S.W. Ireland          |                                                                                                                                                                  |

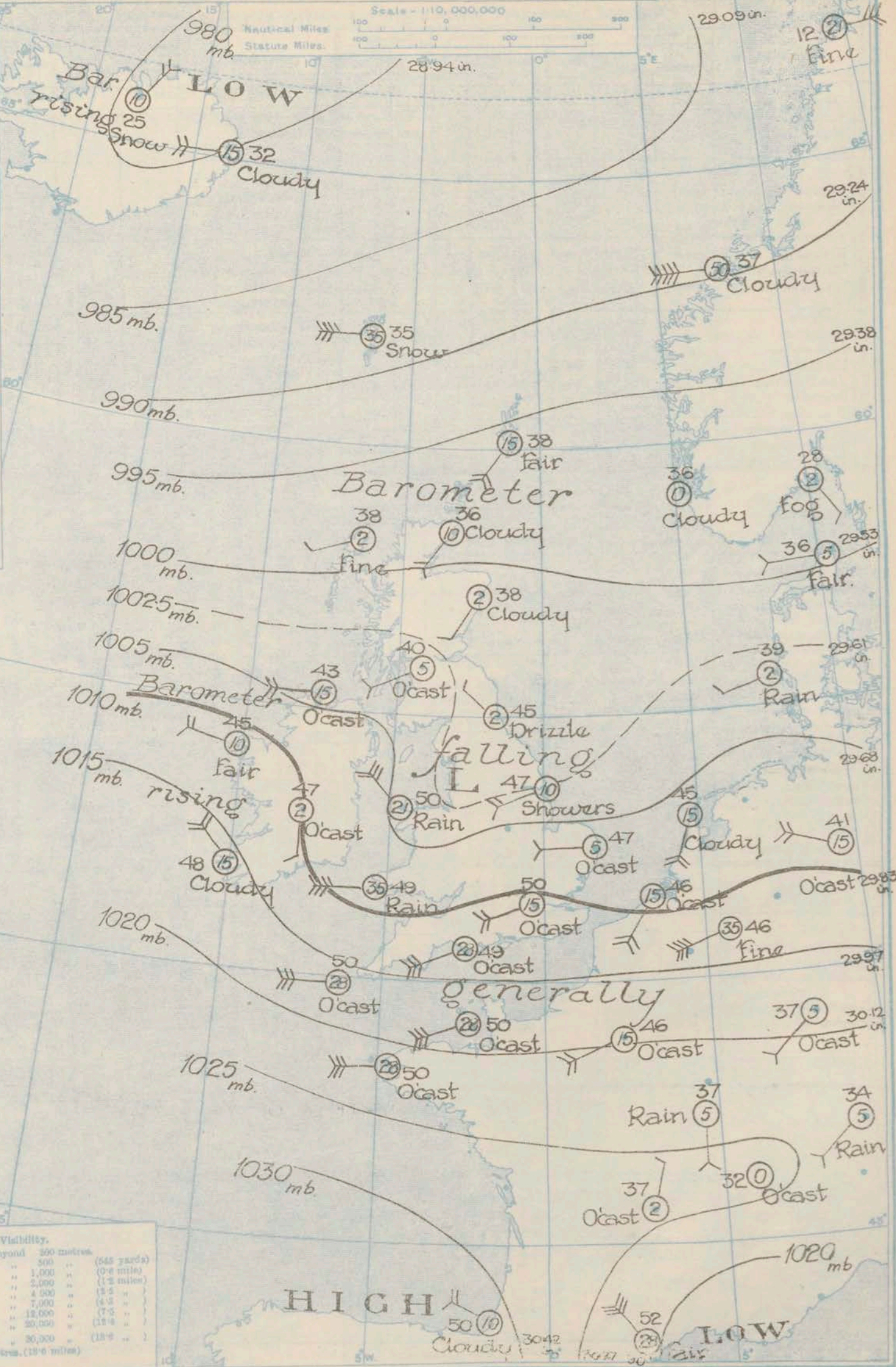
**Further Outlook.**  
 Continuing unsettled, with winds mainly between W. and SW.



# SYNOPTIC CHART FOR MORNING OF SUNDAY, 21<sup>st</sup> DECEMBER, 1919.

Scale - 1:10,000,000

Nautical Miles  
Statute Miles



## Scale of Surface Visibility.

| Symbol | Description                          | Distance (metres)                     | Distance (yards) |
|--------|--------------------------------------|---------------------------------------|------------------|
| 0      | Very Bad                             | Objects not visible beyond 500 metres | (545 yards)      |
| 1      | Bad                                  | " " " 1,000 "                         | (1,094 yards)    |
| 2      | Very Poor                            | " " " 2,000 "                         | (2,187 yards)    |
| 3      | Poor                                 | " " " 4,000 "                         | (4,374 yards)    |
| 4      | Indist.                              | " " " 7,000 "                         | (7,656 yards)    |
| 5      | Fair                                 | " " " 12,000 "                        | (13,120 yards)   |
| 6      | Good, above ord.                     | " " " 20,000 "                        | (21,870 yards)   |
| 7      | Vy. gd., unusual                     | " " " 30,000 "                        | (32,808 yards)   |
| 8      | Except good                          | " " " 30,000 "                        | (32,808 yards)   |
| 9      | Objects visible beyond 30,000 metres | (32,808 yards)                        |                  |



WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 20<sup>th</sup>

| STATIONS.     |                        | WEATHER.  |            | TEMPERATURE. |              | RAINFALL.                               |                                       | SUNSHINE.                                        |           | STATIONS.          |                       | WEATHER.   |              | TEMPERATURE. |                                         | RAINFALL.                             |                                                  | SUNSHINE. |     |
|---------------|------------------------|-----------|------------|--------------|--------------|-----------------------------------------|---------------------------------------|--------------------------------------------------|-----------|--------------------|-----------------------|------------|--------------|--------------|-----------------------------------------|---------------------------------------|--------------------------------------------------|-----------|-----|
|               |                        | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-9h.<br>19 <sup>th</sup> . | Day.<br>9h-17h.<br>20 <sup>th</sup> . | Sunrise<br>to Sun-<br>set.<br>20 <sup>th</sup> . | Forenoon. |                    |                       | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-9h.<br>19 <sup>th</sup> . | Day.<br>9h-17h.<br>20 <sup>th</sup> . | Sunrise<br>to Sun-<br>set.<br>20 <sup>th</sup> . |           |     |
| Scotland.     | Oban ... ..            | ot        | ot         | 47           | 41           | 2                                       | 1                                     |                                                  | 0.0       | England,<br>N.W.   | Douglas (I.O.M.)      |            |              |              |                                         |                                       |                                                  |           |     |
|               | Banff ... ..           |           |            |              |              |                                         |                                       |                                                  |           |                    | Blackpool ... ..      |            |              |              |                                         |                                       |                                                  |           |     |
|               | Montrose ... ..        |           |            |              |              |                                         |                                       |                                                  |           |                    | Southport ... ..      | ot         | ot eo        | 47           | 43                                      | 4                                     | 0.2                                              |           | 0.0 |
|               | St. Andrews ... ..     |           |            |              |              |                                         |                                       |                                                  |           |                    |                       |            |              |              |                                         |                                       |                                                  |           |     |
| England, N.E. | Harrogate ... ..       | odp       | od         | 49           | 39           | 0.2                                     | 0.3                                   |                                                  | 0.0       | Midlands.          | Buxton ... ..         |            |              |              |                                         |                                       |                                                  |           |     |
|               | Skegness ... ..        |           |            |              |              |                                         |                                       |                                                  |           |                    | Leamington Spa ... .. |            |              | 49           | 38                                      | 0.3                                   | -                                                |           | 0.0 |
|               |                        |           |            |              |              |                                         |                                       |                                                  |           |                    | Malvern ... ..        |            |              |              |                                         |                                       |                                                  |           |     |
|               |                        |           |            |              |              |                                         |                                       |                                                  |           | Ross-on-Wye ... .. | po ev                 | co c       | 54           | 41           | 0.3                                     | -                                     |                                                  | 0.2       |     |
| England, E.   | Felixstowe ... ..      | omd       | ogm        | 49           | 35           | 0.2                                     | -                                     |                                                  | 0.0       | Wales.             | Rhyl ... ..           |            |              |              |                                         |                                       |                                                  |           |     |
|               | Walton-on-Naze ... ..  |           |            |              |              |                                         |                                       |                                                  |           |                    | Colwyn Bay ... ..     |            |              |              |                                         |                                       |                                                  |           |     |
|               | Southend-on-Sea ... .. | omg       | oc         | 49           | 35           | 0.4                                     | 0.1                                   |                                                  | 0.0       |                    | Llandudno ... ..      | o          | op           | 53           | 45                                      | 5                                     | 0.2                                              |           | 0.0 |
|               |                        |           |            |              |              |                                         |                                       |                                                  |           |                    | Aberystwyth ... ..    | ot         | co           | 47           | 45                                      | *                                     | *                                                |           | 0.0 |
| England, S.E. | Margate ... ..         | om        | om         | 49           | 36           | -                                       | -                                     |                                                  | 0.0       | England, S.W.      | Weymouth ... ..       |            |              |              |                                         |                                       |                                                  |           |     |
|               | Ramsgate ... ..        | o         | o          | 45           | 33           | -                                       | -                                     |                                                  | 0.0       |                    | Teignmouth ... ..     |            |              |              |                                         |                                       |                                                  |           |     |
|               | Folkestone ... ..      | o         | do         | 49           | 37           | -                                       | 0.3                                   |                                                  | 0.0       |                    | Torquay ... ..        | oc bc      | oc bc co     | 54           | 47                                      | 0.4                                   | -                                                |           | 1.6 |
|               | Hastings ... ..        | fm        | f          | 49           | 37           | 0.2                                     | 1                                     |                                                  | 0.0       |                    | Paignton ... ..       | c bc       | bc           | 55           | 45                                      | Trace                                 | -                                                |           | 1.6 |
|               | Eastbourne ... ..      | od        | o          | 50           | 36           | 0.2                                     | 0.2                                   |                                                  | 0.0       |                    | Penzance ... ..       |            |              |              |                                         |                                       |                                                  |           |     |
|               | Brighton ... ..        |           |            |              |              |                                         |                                       |                                                  |           |                    | Newquay ... ..        |            |              |              |                                         |                                       |                                                  |           |     |
|               | Worthing ... ..        | f         | f.g        | 49           | 35           | -                                       | -                                     |                                                  | 0.0       |                    | Bude ... ..           |            |              |              |                                         |                                       |                                                  |           |     |
|               | Littlehampton ... ..   | fc        | g          | 51           | 46           | 1                                       | -                                     |                                                  | 0.0       |                    | Ilfracombe ... ..     |            |              |              |                                         |                                       |                                                  |           |     |
|               | Bournemouth ... ..     | -         | -          | 52           | 41           | 1                                       | -                                     |                                                  | 0.0       |                    | Weston-s-Mare ... ..  |            |              |              |                                         |                                       |                                                  |           |     |
|               | Tunbridge Wells ... .. | o         | o          | 50           | 31           | -                                       | -                                     |                                                  | 0.0       |                    |                       |            |              |              |                                         |                                       |                                                  |           |     |

| STATIONS.                   | SUMMARIES FOR LAST 24 HOURS. |                            |                           |                          |              |                 |                 |                    |                 |                         | BEAUFORT NOTATION. | THE BEAUFORT SCALE OF WIND FORCE. |     |                     |               |
|-----------------------------|------------------------------|----------------------------|---------------------------|--------------------------|--------------|-----------------|-----------------|--------------------|-----------------|-------------------------|--------------------|-----------------------------------|-----|---------------------|---------------|
|                             | WEATHER.                     |                            |                           |                          |              | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass ° F. | RAINFALL.       |                         |                    | Sun. Hours.                       | No. | Limits of Velocity. |               |
|                             | 7h-13h 20 <sup>th</sup> .    | 13h-19h 20 <sup>th</sup> . | 19h-1h 21 <sup>st</sup> . | 1h-7h 21 <sup>st</sup> . | Day. 7h-13h. |                 |                 |                    | Night. 13h-19h. | Statute miles per hour. |                    |                                   |     | Metres per second.  |               |
| † Hutton Bay (Orkney)...    |                              |                            |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   | 0   | Less than 1         | Less than 0.3 |
| Eskdalemuir ... ..          | oapc                         | adm                        | adm                       | orm                      | orm          | oc              | 44              | 41                 | 39              | 0.4                     | 9                  | 0.0                               | 1   | 1-3                 | 0.3-1.5       |
| † Stranraer ... ..          |                              |                            |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   | 2   | 4-7                 | 1.6-3.3       |
| † Lough Foyle ... ..        |                              |                            |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   | 3   | 8-12                | 5.4-5.4       |
| Valencia (Cahirciveen) ...  | odo                          | odpo                       |                           | odr                      | o.c          |                 | 53              | 47                 | 44              | 1                       | 7                  | 0.0                               | 4   | 13-18               | 5.5-7.9       |
| † Anglesey (Llangefni) ...  | ome                          | co                         |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   | 5   | 19-24               | 8.0-10.7      |
| Falmouth ... ..             | omcco                        | oembc                      | bodq                      | dq                       |              | 54              | 48              | 46                 | Trace           | 1                       | 0.6                |                                   | 6   | 25-31               | 10.8-13.8     |
| † Calshot (Hants) ... ..    | om                           | co                         |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   | 7   | 32-38               | 13.9-17.1     |
| † Capel (Folkestone) ... .. |                              | ef                         | efq                       |                          |              |                 |                 |                    |                 |                         |                    |                                   | 8   | 39-46               | 17.2-20.7     |
| Aberdeen ... ..             | coz                          | ozcz                       |                           | bc o pc.                 |              | 51              | 37              | 31                 | -               | 0.4                     | 0.0                |                                   | 9   | 47-54               | 20.8-24.4     |
| † East Fortune ... ..       | coz                          | pdz                        | f. 2                      |                          |              |                 |                 |                    |                 |                         |                    |                                   | 10  | 55-63               | 24.5-28.4     |
| † Flamborough Head ... ..   | ce                           | op                         | op                        | op                       |              | 45              | 33              | *                  | *               | *                       | *                  |                                   | 11  | 64-75               | 28.5-33.5     |
| † Felixstowe ... ..         | pd                           | of                         | om.                       | c.o.                     |              | 49              | 40              | *                  | *               | *                       | *                  |                                   | 12  | Above 75            | 33.6 or above |
| † Cranwell (Lines) ... ..   | to r.                        | op                         | bcc b. bc.                | of.                      |              | 50              | 44              | *                  | *               | *                       | *                  |                                   |     |                     |               |
| † Bedford ... ..            |                              |                            |                           |                          |              |                 |                 |                    |                 |                         |                    |                                   |     |                     |               |
| Benson ... ..               | o                            | o                          | o                         | o                        |              | 50              | 42              | 25                 | -               | 0.1                     | *                  |                                   |     |                     |               |
| London (Kew Obsy.) ... ..   | om dom                       | om                         | om.                       | or.                      | d.o.         | 51              | 47              | 45                 | 0.1             | Trace                   | 0.0                |                                   |     |                     |               |

**BEAUFORT NOTATION.**

b blue sky (not more than a quarter covered).

bc sky partly cloudy (one half covered).

c generally cloudy (three quarters covered).

d drizzle, or fine rain.

e wet air without rain falling.

f fog. g gloom.

h hail. i lightning.

m mist.

o overcast sky.

p passing showers.

q squalls.

r rain.

rs sleet, i.e., rain and snow together.

s snow.

t thunder.

u ugly, threatening sky.

v unusual visibility.

w dew.

x hoar frost.

y dry air; humidity less than 60 per cent.

z dust haze; the turbid atmosphere of dry weather.

**SUFFIXES.**

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0 = slight, 1 = heavy. Underlining is used to express continuity.

**SYMBOLS.—**

Aurora ☄ Solar halo ☉

Rime ❄ Lunar halo ☾

Glazed frost ☃ Solar corona ☼

Glazed roads 🌧 Lunar corona ☾

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                          |            |        | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |             |           |          |       |         |
|--------------------------------|---------------------------------------------------|------------|--------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------|-----------|----------|-------|---------|
|                                | Morning.                                          | Afternoon. | Night. |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           | 21 <sup>st</sup> & 22 <sup>nd</sup> December, 1919.                                                     |             |           |          |       |         |
|                                | 24 HOURS ENDED 9h G.M.T. ... 21 <sup>st</sup> ... |            |        |                       |                       |                           |                       |                                       | YESTERDAY.      |                |                                                                                           | TO-DAY.                                                                                                 |             | Stations. | Sunrise. | Noon. | Sunset. |
| Greenwich (Royal Observatory)  | o                                                 | od         | o      | 52                    | 45                    | 44                        | 0.4                   | 0.1                                   | 86              | 84             | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. |                                                                                                         |             |           |          |       |         |
| City (Bunhill Row) ... ..      | *                                                 | *          | *      | *                     | *                     | *                         | *                     | *                                     | *               | *              |                                                                                           |                                                                                                         |             |           |          |       |         |
| Westminster (St. James's Park) | *                                                 | *          | *      | *                     | *                     | *                         | *                     | *                                     | *               | *              |                                                                                           |                                                                                                         |             |           |          |       |         |
| (Admiralty Arch)               | omd om                                            | om         | omq    | 50                    | 48                    | *                         | -                     | 0.1                                   | 88              | 88             | Total ..... Joules.                                                                       | Yarmouth ... {                                                                                          | 8.4         | 11.51     | 3.38     |       |         |
| Camden Sq. (British Rainfall)  | gt.o                                              | o          | *      | 51                    | 44                    | 42                        | 1                     |                                       | 88              | 90             |                                                                                           |                                                                                                         | Greenwich { | 8.5       | 11.52    | 3.39  |         |
| Kensington Palace ... ..       | o                                                 | o          | *      | 52                    | 43                    | 47                        | 0.3                   | *                                     | 89              | 97             |                                                                                           |                                                                                                         | Wick ... {  | 8.5       | 11.59    | 3.52  |         |
|                                |                                                   |            |        |                       |                       |                           |                       |                                       |                 |                | Milliwatts.                                                                               | Valencia ... {                                                                                          | 9.3         | 12.10     | 3.17     |       |         |
|                                |                                                   |            |        |                       |                       |                           |                       |                                       |                 |                | Average Rate.                                                                             |                                                                                                         | 9.4         | 12.11     | 3.18     |       |         |
|                                |                                                   |            |        |                       |                       |                           |                       |                                       |                 |                | Maximum Rate.                                                                             |                                                                                                         | 8.49        | 12.39     | 4.29     |       |         |
|                                |                                                   |            |        |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         | 8.50        | 12.40     | 4.30     |       |         |

## NOTES ON THE WEATHER OF YESTERDAY.

Temperature rose to 50° or a little higher in most parts of the Kingdom, and the minimum readings of the night were generally high. Rain fell in nearly all localities, the largest amounts being 14 mm. at Malin Head, 10 mph. at Birr Castle, 9 mm. at Eskdalemuir, and 8 mm. at Liverpool and Valencia. The day was sunless at almost all stations, and mist or fog was experienced in several places.





# METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT, BRITISH SECTION.

No. 2474-B MONDAY, 22<sup>ND</sup> DECEMBER 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 10, 11, 12 AND 15H. |                                              |             |       |          |             |              |                    |        |            |              |          |                                 |                                |             |                     |          |             |             |          |            |              |            |        |        |  |
|------------------------------------------------------------------------|----------------------------------------------|-------------|-------|----------|-------------|--------------|--------------------|--------|------------|--------------|----------|---------------------------------|--------------------------------|-------------|---------------------|----------|-------------|-------------|----------|------------|--------------|------------|--------|--------|--|
| STATIONS.                                                              | Barom.                                       | Change      | Wind. | Weather. | Temp.       | Humidity.    | Visibility.        | Height | Low Cloud. | Upper Cloud. | Sea.     | Barom.                          | Change                         | Wind.       | Weather.            | Temp.    | Humidity.   | Visibility. | Height   | Low Cloud. | Upper Cloud. | Sea.       |        |        |  |
|                                                                        | at M.S.L.                                    | in 3 hours. | Dir.  |          | °F.         | %            | 0-10.              | Feet.  | Form.      | Amt. 0-10.   | Form.    | 0-10.                           | at M.S.L.                      | in 3 hours. |                     | Dir.     | °F.         | %           | 0-10.    | Feet.      | Form.        | Amt. 0-10. | Form.  | 0-10.  |  |
| 13H. G.M.T. 21 <sup>ST</sup>                                           |                                              |             |       |          |             |              |                    |        |            |              |          | 18H. G.M.T. OF 21 <sup>ST</sup> |                                |             |                     |          |             |             |          |            |              |            |        |        |  |
| †Houton B. (Orkney)                                                    | 999.7                                        | -4          | WSW   | 5        | 37          | 82           | 7                  | -      | Nb         | 10           | -        | 998.2                           | 0                              | W           | 6                   | 33       | 87          | 5           | -        | SR         | 10           | -          | -      |        |  |
| †Eskdalemuir ...                                                       | 1017.9                                       | -1          | W     | 7        | 48          | 75           | 7                  | -      | Cu         | 6            | 1        | 1020.0                          | +4                             | WNW         | 6                   | 45       | 75          | 7           | -        | Cu         | 8            | -          | -      |        |  |
| †Stranraer ...                                                         | 1007.0                                       | -1          | W     | 6        | 45          | 82           | 7                  | 2-3000 | ST Cu      | 9            | -        | 1007.3                          | 0                              | WNW         | 7                   | 48       | 82          | -           | 2-3000   | Nb         | 9            | -          | -      |        |  |
| †Lough Foyle ...                                                       | 1015.2                                       | +2          | NW    | 8        | 50          | 75           | 7                  | -      | Cu         | 2            | -        | 1016.9                          | +1                             | WNW         | 9                   | 48       | 65          | 7           | -        | Cu         | 7            | -          | -      |        |  |
| †Valencia (Cahire'n)                                                   | 1007.1                                       | -3          | W     | 5        | 52          | 87           | 4                  | 1-2000 | ST         | 9            | -        | 1008.3                          | -1                             | WNW         | 7                   | 45       | 75          | 4           | 2-3000   | So         | 3            | -          | -      |        |  |
| †Anglesey (Llangafn)                                                   | 1003.4                                       | -7          | WSW   | 7        | 48          | 92           | 4                  | 1-1000 | Nb         | 10           | -        | 1004.0                          | 0                              | WNW         | 4                   | 43       | 82          | 7           | -        | -          | A. St        | 1          | -      |        |  |
| †Falmouth ...                                                          | 995.3                                        | -8          | W     | 1        | 40          | 75           | 6                  | -      | Cu Nb      | 1            | 8        | 993.2                           | 0                              | W           | 4                   | 37       | 75          | 6           | -        | -          | A. St        | 9          | 2      |        |  |
| †Calshot (Hants) ...                                                   | 997.2                                        | -5          | W     | 3        | 41          | 87           | 4                  | 3-4000 | ST Cu      | 9            | -        | 995.2                           | -3                             | WNW         | 5                   | 38       | 87          | -           | 3-4000   | ST Cu      | 7            | -          | -      |        |  |
| †Capel (Folkestone)                                                    | 1001.7                                       | -9          | NW    | 6        | 49          | 98           | 4                  | 1-1500 | Cu Nb      | 10           | -        | 998.0                           | -3                             | W           | 5                   | 37       | 92          | 4           | 1-2000   | So         | 10           | -          | -      |        |  |
| †Aberdeen ...                                                          | 1001.7                                       | 0           | WNW   | 5        | 46          | 82           | 6                  | 1-2000 | ST Cu      | 5            | 1        | 1001.3                          | -2                             | W           | 5                   | 41       | 92          | 4           | 1-1500   | So         | 4            | -          | -      |        |  |
| †East Fortune ...                                                      | 1004.6                                       | -2          | NW    | 4        | 50          | 87           | 7                  | -      | -          | -            | -        | 1006.3                          | +1                             | NW          | 5                   | 40       | 65          | 8           | -        | Cu         | 10           | -          | -      |        |  |
| †Falmouth Head ...                                                     | 1003.6                                       | -7          | W     | 4        | 52          | 87           | 5                  | 1-1500 | ST Cu      | 7            | -        | 1006.3                          | +2                             | WNW         | 5                   | 43       | 82          | 5           | -        | Nb         | 7            | -          | -      |        |  |
| †Felixstowe ...                                                        | 1H. G.M.T. OF 22 <sup>ND</sup>               |             |       |          |             |              |                    |        |            |              |          |                                 | 7H. G.M.T. OF 22 <sup>ND</sup> |             |                     |          |             |             |          |            |              |            |        |        |  |
| †Cranwell (Lines)                                                      | 1002.5                                       | 0           | WSW   | 5        | 38          | 75           | 4                  | -      | Nb         | 10           | -        | 1005.2                          | +4                             | W           | 5                   | 35       | 75          | 5           | -        | SR         | 4            | -          | -      |        |  |
| †Bedford ...                                                           | 1023.2                                       | 0           | WNW   | 8        | 46          | 82           | 4                  | -      | -          | -            | -        | 1018.5                          | -5                             | WSW         | 6                   | 48       | 87          | 4           | 2-3000   | F. Cu      | 4            | -          | -      |        |  |
| †Benson ...                                                            | 1020.6                                       | +3          | NW    | 2        | 44          | 65           | 5                  | -      | So         | 4            | -        | 1020.3                          | -1                             | WNW         | 5                   | 47       | 82          | 6           | -        | Cu Nb      | 9            | -          | -      |        |  |
| †London (Kew Ob.)                                                      | 1011.5                                       | +2          | N     | 5        | 42          | 75           | 4                  | -      | -          | -            | -        | 1014.1                          | +1                             | WSW         | 2                   | 40       | 92          | 4           | 2-3000   | So         | 3            | -          | -      |        |  |
| †Houton B. (Orkney)                                                    | 1004.0                                       | 0           | W     | 6        | 43          | 88           | 6                  | 1-2000 | Nb         | 1            | -        | 1012.1                          | +2                             | W           | 6                   | 31       | 75          | 7           | -        | -          | A. St        | 3          | -      |        |  |
| †Eskdalemuir ...                                                       | 998.5                                        | +3          | W     | 4        | 35          | 92           | 7                  | -      | -          | -            | -        | 998.5                           | +3                             | W           | 4                   | 35       | 92          | 7           | -        | -          | -            | -          | -      |        |  |
| †Stranraer ...                                                         | 1006.0                                       | +3          | N     | 6        | 38          | 82           | 4                  | 1-1500 | ST Cu      | 2            | -        | 1008.6                          | +2                             | WNW         | 5                   | 40       | 92          | 4           | 1-1000   | ST Cu      | 2            | -          | -      |        |  |
| †Lough Foyle ...                                                       | 1006.4                                       | +2          | WNW   | 3        | 34          | 98           | 4                  | 2-3000 | So         | 3            | A. St    | 1007.6                          | +1                             | WNW         | 5                   | 39       | 82          | 5           | 2-3000   | ST         | 3            | -          | -      |        |  |
| †Valencia (Cahire'n)                                                   | 1012.1                                       | +1          | W     | 3        | 37          | 82           | 8                  | -      | Cu         | 5            | -        | 1012.1                          | +1                             | W           | 3                   | 37       | 82          | 8           | -        | Cu         | 5            | -          | -      |        |  |
| †Anglesey (Llangafn)                                                   | 1012.1                                       | +1          | W     | 5        | 39          | 82           | 7                  | -      | -          | -            | -        | 1012.1                          | +1                             | W           | 5                   | 39       | 82          | 7           | -        | -          | -            | -          | -      |        |  |
| †Falmouth ...                                                          | STATIONS CONTRIBUTING REPORTS AT 7H AND 15H. |             |       |          |             |              |                    |        |            |              |          |                                 |                                |             |                     |          |             |             |          |            |              |            |        |        |  |
| STATIONS.                                                              | Barom.                                       | Temp.       | Wind. | Weather. | Barometer.  | Temperature. | Wind.              | Dir.   | Force      | Upper Cloud. | Weather. | Sea.                            | Rainfall                       | Temp.       |                     | Weather. |             |             | Sunshine |            |              |            |        |        |  |
|                                                                        | at M.S.L.                                    | °F.         | Dir.  |          | Force 0-12. | at M.S.L.    | Change in 3 hours. |        |            |              |          |                                 |                                | Temp. °F.   | Change in 24 hours. | Dir.     | Force 0-12. | Max. °F.    |          | Min. °F.   | Morning.     | Afternoon. | Night. | Hours. |  |
| 18H. G.M.T. OF 21 <sup>ST</sup>                                        |                                              |             |       |          |             |              |                    |        |            |              |          | 7H. G.M.T. OF 22 <sup>ND</sup>  |                                |             |                     |          |             |             |          |            |              |            |        |        |  |
| Lerwick ...                                                            | 985.0                                        | 37          | -     | 0        | bc          | 992.1        | +1                 | 36     | -2         | NW           | 2        | -                               | 1                              | 36          | 32                  | bc       | ems         | cps         | 0.0      |            |              |            |        |        |  |
| Stornoway ...                                                          | 995.0                                        | 35          | WNW   | 5        | cph         | 1000.2       | +3                 | 38     | 0          | WNW          | 5        | -                               | 1                              | 38          | 32                  | bcph     | cphq        | cpbg        | 0.0      |            |              |            |        |        |  |
| Castlebay (Barras)                                                     | 999.4                                        | 39          | W     | 6        | orshp       | 1004.4       | 0                  | 43     | 0          | W            | 4        | -                               | 1                              | 44          | 34                  | bcph     | orshp       | h/bc        | 0.0      |            |              |            |        |        |  |
| Glasgow ...                                                            | 998.9                                        | 34          | W     | 4        | b           | 1005.9       | +2                 | 37     | -3         | W            | 2        | -                               | 1                              | 41          | 31                  | opchp    | opcp        | sh-r        | 0.5      |            |              |            |        |        |  |
| Malin Head ...                                                         | 1001.7                                       | 40          | WNW   | 7        | cqhp        | 1006.1       | +2                 | 42     | -1         | WNW          | 5        | -                               | 1                              | 46          | 35                  | cqhp     | cqhp        | omq p       | 0.5      |            |              |            |        |        |  |
| Blacksod Point                                                         | 1012.3                                       | 43          | NW    | 5        | cqhp        | 1010.5       | -3                 | 44     | +3         | NW           | 2        | -                               | 1                              | 50          | 36                  | bc       | bc          | bc          | 0.0      |            |              |            |        |        |  |
| Roche's Point...                                                       | 1017.2                                       | 43          | WNW   | 5        | bc          | 1018.6       | -2                 | 46     | -3         | WNW          | 4        | -                               | 1                              | 49          | 41                  | cpq      | bc          | cpqb        | 2.4      |            |              |            |        |        |  |
| Birr Castle ...                                                        | 1013.7                                       | 36          | W     | 3        | o           | 1014.9       | 0                  | 45     | -2         | W            | 1        | -                               | 1                              | 46          | 43                  | oqpc     | oqpc        | odr         | 7.7      |            |              |            |        |        |  |
| Donaghadee ...                                                         | 1004.9                                       | 36          | NW    | 6        | bc          | 1009.5       | +2                 | 38     | -6         | SW           | 1        | -                               | 1                              | 46          | 35                  | bcq      | bcq         | qps         | 0.0      |            |              |            |        |        |  |
| Liverpool (Bidston)                                                    | 1002.5                                       | 38          | W     | 8        | cqhp        | 1009.0       | +1                 | 41     | -9         | W            | 7        | -                               | 1                              | 50          | 38                  | c.oq     | opqhr       | qbc         | 0.8      |            |              |            |        |        |  |
| Holyhead ...                                                           | 1006.3                                       | 39          | WNW   | 9        | bc          | 1011.6       | 0                  | 43     | -7         | WNW          | 7        | -                               | 1                              | 50          | 48                  | opq      | cpqrs       | cpbcq       | 1.4      |            |              |            |        |        |  |
| Pembroke (St. Ann's Head)                                              | 1012.3                                       | 44          | WNW   | 8        | cqhp        | 1016.9       | -1                 | 46     | -3         | W            | 5        | -                               | 1                              | 52          | 43                  | c.oq     | cq          | bcq         | 2.3      |            |              |            |        |        |  |
| Scilly (St. Mary's)                                                    | 1018.6                                       | 48          | WNW   | 8        | c           | 1022.5       | 0                  | 48     | -2         | WNW          | 6        | -                               | 1                              | 52          | 45                  | owrbc    | bc          | bc          | 4.1      |            |              |            |        |        |  |
| Jersey (St. Aubin)                                                     | 1016.0                                       | 49          | WSW   | 7        | b           | 1020.3       | 0                  | 48     | -2         | W            | 4        | -                               | 1                              | 52          | 44                  | odm      | odm         | bc          | 1.1      |            |              |            |        |        |  |
| Portland Bill ...                                                      | 1011.1                                       | 48          | WNW   | 7        | c           | 1016.1       | +2                 | 46     | -3         | WNW          | 7        | -                               | 1                              | 51          | 42                  | rbc      | qap         | bcq         | 0.0      |            |              |            |        |        |  |
| Dungeness ...                                                          | 1004.5                                       | 45          | W     | 5        | b           | 1010.8       | 0                  | 37     | -10        | WNW          | 4        | -                               | 1                              | 49          | 33                  | cqr      | cqr         | qps         | 0.0      |            |              |            |        |        |  |
| Wick ...                                                               | 991.2                                        | 33          | WNW   | 3        | bc          | 996.2        | +2                 | 34     | -2         | WNW          | 2        | -                               | 1                              | 38          | 30                  | bc       | omq         | bcps        | 0.0      |            |              |            |        |        |  |
| Nairn ...                                                              | 995.3                                        | 33          | WNW   | 1        | o           | 999.4        | 0                  | 35     | -2         | WNW          | 3        | -                               | 1                              | 38          | 31                  | pcg      | pcg         | pse         | 0.4      |            |              |            |        |        |  |
| Leith ...                                                              | 996.3                                        | 37          | W     | 3        | o           | 1001.8       | +1                 | 37     | -4         | WNW          | 3        | -                               | 1                              | 42          | 33                  | ocgo     | opgo        | ocrsb       | 0.0      |            |              |            |        |        |  |
| Tynemouth ...                                                          | 994.8                                        | 37          | W     | 3        | bc          | 1002.7       | +3                 | 37     | +2         | W            | 3        | -                               | 1                              | 45          | 34                  | omr      | cm          | obmbq       | 0.0      |            |              |            |        |        |  |
| Spurn Head ...                                                         | 996.9                                        | 41          | WNW   | 7        | o           | 1003.5       | +5                 | 39     | +2         | W            | 7        | -                               | 1                              | 47          | 35                  | cp       | cq          | cp          | 0.0      |            |              |            |        |        |  |
| Yarmouth (Gorleston)                                                   | 999.5                                        | 42          | WNW   | 3        | bc          | 1005.0       | +2                 | 37     | -10        | WNW          | 3        | -                               | 1                              | 51          | 36                  | oqomr    | bcq         | bcq         | 0.3      |            |              |            |        |        |  |
| Clacton-on-Sea                                                         | 1002.7                                       | 45          | WNW   | 5        | c           | 1009.1       | +2                 | 38     | -4         | W            | 4        | -                               | 1                              | 50          | 36                  | c.oq     | oqmd        | oqmd        | 0.4      |            |              |            |        |        |  |
| Nottingham ...                                                         | 1003.5                                       | 38          | WNW   | 5        | op          | 1008.5       | 0                  | 41     | -7         | WNW          | 4        | -                               | 1                              | 50          | 34                  | r.o.c    | c.oq        | orcs        | 0.5      |            |              |            |        |        |  |

† Air Ministry Station.

\* Information for these columns not usually received.

† The barometric change is expressed in half millibars.

‡ Longitude † at 1st.



## SUMMARY OF CONDITIONS AT 7 A.M.

Monday, 22nd Dec., 1919.

| Districts.                | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.     | Visibility. | Sea.   |
|---------------------------|-----------------------------|--------------|---------------------------------------|-------------|--------|
| 1. S.E. England           | W-NW 15-30.                 | r.cold.      | Fine, local squalls.                  | Good.       | Mod.   |
| 2. E. England             | W-NW 15-30                  | "            | Fair or fine; local squalls           | Var.        | "      |
| 3. E. Midlands            | W-NW 10-15.                 | Mod.         | Fair to dull; rain in N.              | Good        | "      |
| 4. W. Midlands            | W. 10-20                    | "            | Fair to dull.                         | "           | "      |
| 5. S.W. England           | WNW 20-35                   | "            | Fair to dull; squally                 | "           | rough  |
| 6. South Wales            | W. 20-25                    | "            | Dull; squally.                        | "           | "      |
| 7. North Wales            | WNW 30-40                   | "            | Fair; squally.                        | "           | "      |
| 8. N.W. England           | W. 30-35                    | "            | Fair; squally.                        | "           | "      |
| 9. N. Midlands            | W-NW 15-25                  | "            | Fair to dull.                         | Fair.       | "      |
| 10. N.E. England          | W. 15-30                    | "            | Fine local squalls and mist.          | Ord.        | Var.   |
| 11. E. Scotland           | W-NW 10-15                  | r.cold       | Fair or fine.                         | Good.       | Smooth |
| 12. S.W. Scotland         | W. 10-20                    | "            | Fair to dull; local showers.          | Fair        | "      |
| 13. Isle of Man           | W-NW 10-20                  | Mod.         | Fair.                                 | "           | Var.   |
| 14. N.&N.W.Scotland       | W-NW 5-10                   | r.cold.      | Fair to dull; local mist and snow.    | Ord.        | Slight |
| 15. Hebrides              | WNW 15-20                   | "            | Cloudy; local showers.                | "           | Mod.   |
| 16. Orkneys and Shetlands | W-NW 5-10                   | "            | Fine to dull.                         | Good        | Smooth |
| 17. N.W. Ireland          | NW 5-15                     | r.mild       | Cloudy or dull; local mist.           | Ord.        | "      |
| 18. N.E. Ireland          | SW-W 5-15                   | Mod.         | Fair to dull; local squalls and mist. | "           | Var.   |
| 19. S.E. Ireland          | SW-W 2-10                   | "            | Dull; local rain and fog.             | Good        | rough  |
| 20. S.W. Ireland          | WSW-NW 15-25                | "            | Fair or fine; squalls.                | V.good      | Mod.   |



**EXPLANATION.**  
 BAROMETER.—Isobars are drawn at intervals of five millibars.  
 WIND.—Direction is shown by an arrow flying with the wind. Force, on the 0-12, is indicated by the number of feathers. Mean velocity is shown in feet per hour by figures in small circles.  
 TEMPERATURE.—Isotherms are drawn at intervals of five degrees.  
 WEATHER SYMBOLS.—  
 ☉ clear sky. ☁ sky & cloud. ☂ sky & rain. ☄ overcast sky. ☇ rain falling. \* snow. ▲ hail. ≡ fog. ⚡ thunder. ⚡ thunderstorm.  
 SEA DISTURBANCE.—Rough. High.

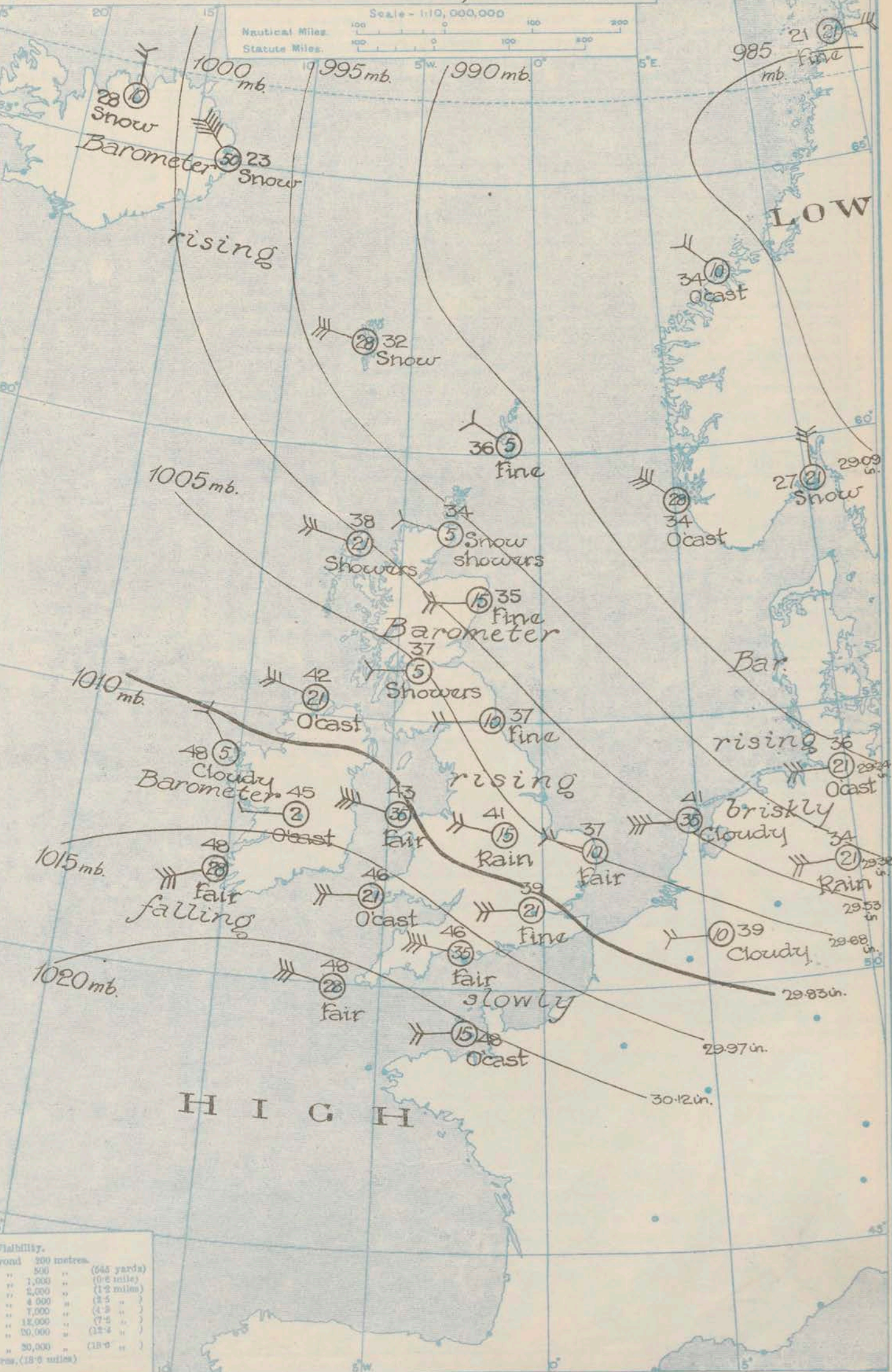
## GENERAL INFERENCE from observations received up to 9 A.M.

An extensive depression is centred over Scandinavia. A secondary depression is approaching the West coast of Ireland. Except in the North of Scotland winds will back to between W. and S.W. Conditions will become milder again with much low cloud and drizzle or rain at times. In the North of Scotland winds will be mainly N.W. with snow showers.

| Districts.                | Forecasts for the 24 hours commencing 3 p.m. Monday, 22nd December, 1919.                                                                                                                                                                                                     | Further Outlook.                                      |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1. S.E. England           | Moderate or fresh breezes from between S.W. and W. increasing later. Fair today becoming cloudy or overcast with low cloud tomorrow. Occasional showers of rain or hail today; drizzle or light rain tomorrow. Visibility good becoming fair to indifferent. Becoming milder. | Continuing unsettled with winds between S.W. and N.W. |
| 2. E. England             |                                                                                                                                                                                                                                                                               |                                                       |
| 3. E. Midlands            |                                                                                                                                                                                                                                                                               |                                                       |
| 4. W. Midlands            |                                                                                                                                                                                                                                                                               |                                                       |
| 5. S.W. England           |                                                                                                                                                                                                                                                                               |                                                       |
| 6. South Wales            |                                                                                                                                                                                                                                                                               |                                                       |
| 7. North Wales            | Strong South-Westerly or Westerly winds moderating temporarily. Becoming cloudy or dull with low cloud. Drizzle or rain at times. Indifferent visibility. Rather mild.                                                                                                        |                                                       |
| 8. N.W. England           |                                                                                                                                                                                                                                                                               |                                                       |
| 9. N. Midlands            |                                                                                                                                                                                                                                                                               |                                                       |
| 10. N.E. England          |                                                                                                                                                                                                                                                                               |                                                       |
| 11. E. Scotland           |                                                                                                                                                                                                                                                                               |                                                       |
| 12. S.W. Scotland         |                                                                                                                                                                                                                                                                               |                                                       |
| 13. Isle of Man           |                                                                                                                                                                                                                                                                               |                                                       |
| 14. N.&N.W.Scotland       | Moderate or fresh W. to N.W. winds. Hail or snow showers. Much low cloud with fair intervals. Fair visibility. Rather cold.                                                                                                                                                   |                                                       |
| 15. Hebrides              |                                                                                                                                                                                                                                                                               |                                                       |
| 16. Orkneys and Shetlands |                                                                                                                                                                                                                                                                               |                                                       |
| 17. N.W. Ireland          | Moderate South-Westerly or Westerly breezes freshening. Cloudy or dull with low cloud. Indifferent visibility. Mild.                                                                                                                                                          |                                                       |
| 18. N.E. Ireland          |                                                                                                                                                                                                                                                                               |                                                       |
| 19. S.E. Ireland          |                                                                                                                                                                                                                                                                               |                                                       |
| 20. S.W. Ireland          |                                                                                                                                                                                                                                                                               |                                                       |



SYNOPTIC CHART FOR MORNING OF Monday, 22<sup>nd</sup> Dec<sup>r</sup> 1919.



| Scale of Surface Viability. |                        |                             |             |             |
|-----------------------------|------------------------|-----------------------------|-------------|-------------|
| 1                           | Very Bad               | Objects not visible beyond  | 300 metres. |             |
| 2                           | Bad                    | " "                         | 500 "       | (645 yards) |
| 3                           | Very Poor              | " "                         | 1,000 "     | (0.6 mile)  |
| 4                           | Poor                   | " "                         | 2,000 "     | (1.2 miles) |
| 5                           | Indit. } Ordinary      | " "                         | 3,000 "     | (2.5 "      |
| 6                           | Fair                   | " "                         | 5,000 "     | (4.3 "      |
| 7                           | Good, above ord.       | " "                         | 10,000 "    | (7.5 "      |
| 8                           | Vy. gd., unusual       | " "                         | 20,000 "    | (12.5 "     |
| 9                           | Exosp. good            | " "                         | 30,000 "    | (18.7 "     |
| 10                          | Objects visible beyond | 30,000 metres, (18.7 miles) |             |             |



## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 356B

[illegible]

| STATIONS.                                      | SUMMARIES FOR PAST 24 HOURS.            |                       |                         |                     |                    |                 |                    |             |               |             | BEAUFORT NOTATION. |                         | THE BEAUFORT SCALE OF WIND FORCE. |               |               |
|------------------------------------------------|-----------------------------------------|-----------------------|-------------------------|---------------------|--------------------|-----------------|--------------------|-------------|---------------|-------------|--------------------|-------------------------|-----------------------------------|---------------|---------------|
|                                                | WEATHER                                 |                       |                         |                     | Max. on Temp. ° F. | Min. Temp. ° F. | Min. on Grass ° F. | RAINFALL.   |               | Sun. Hours. | No.                | Limits of Velocity.     |                                   |               |               |
|                                                | 7h-13h <sup>21</sup>                    | 13h-18h <sup>21</sup> | 18h-24h <sup>21</sup>   | 1h-7h <sup>22</sup> |                    |                 |                    | Day. 7h-18h | Night. 18h-7h |             |                    | Statute miles per hour. | Metres per second.                |               |               |
| †Houton Bay (Orkney)...<br>Esksdalemuir ... .. | o y e t                                 | o r s o s             | o p r s b c b c c o r s | o r s e b c         | 42                 | 31              | 24                 | 4.8         | 3             | 0.6         |                    | b                       | 0                                 | Less than 1   | Less than 0.3 |
| †Stranraer ... ..                              |                                         |                       |                         |                     |                    |                 | *                  | *           | *             | *           | d                  | 1                       | 1-3                               | 0.3-1.5       |               |
| †Lough Foyle ... ..                            |                                         |                       |                         |                     |                    |                 | *                  | *           | *             | *           | e                  | 2                       | 4-7                               | 1.6-3.3       |               |
| Valencia (Cahirciveen) ...                     | o p q . o                               | c o c q               | c b e p q               |                     | 49                 | 43              | 40                 | 2           | 1             | 2.1         | f                  | 3                       | 8-12                              | 5.4-5.4       |               |
| †Anglesey (Llangefni) ...                      | o q                                     | r h q                 |                         |                     |                    |                 | *                  | *           | *             | *           | g                  | 4                       | 13-19                             | 5.5-7.9       |               |
| Falmouth ... ..                                | o . c . b c q                           | b c q . b q           | b c p q                 | b c o p q           | 52                 | 42              | 39                 | 2           | 3             | 4.1         | h                  | 5                       | 19-24                             | 8.0-10.7      |               |
| †Calshot (Hants) ... ..                        | o d                                     | b r . p d             | b . b c                 | b .                 | 52                 | 37              | *                  | *           | *             | *           | i                  | 6                       | 25-31                             | 10.8-13.8     |               |
| †Capel (Folkestone) ... ..                     | o q                                     | q p                   | q p                     | q p s               | 50                 | 29              | *                  | *           | *             | *           | o                  | 7                       | 32-38                             | 13.9-17.1     |               |
| Aberdeen ... ..                                | c . o z                                 | o g r s p             | b c q . r s p           |                     | 40                 | 34              | 30                 | trace       | 0.2           | 0.8         | p                  | 8                       | 39-46                             | 17.2-20.7     |               |
| †East Fortune ... ..                           | z . c . o                               | 3 z . c . o           |                         |                     |                    |                 | *                  | *           | *             | *           | q                  | 9                       | 47-54                             | 20.8-24.4     |               |
| †Flemborough Head ... ..                       |                                         | o r                   |                         |                     |                    |                 | *                  | *           | *             | *           | r                  | 10                      | 55-63                             | 24.5-28.4     |               |
| †Felixstowe ... ..                             | P .                                     | P                     | g r                     | q                   |                    |                 | *                  | *           | *             | *           | rs                 | 11                      | 64-78                             | 28.6-33.6     |               |
| †Cranwell (Lincs) ... ..                       | r . o                                   | q p                   | g . b . b c             | b b c c             | 49                 | 33              | *                  | *           | *             | *           | s                  | 12                      | Above 75                          | 33.6 or above |               |
| †Bedford ... ..                                |                                         |                       |                         |                     |                    |                 | *                  | *           | *             | *           | t                  |                         |                                   |               |               |
| Benson ... ..                                  | o n b c                                 | b q . b c             |                         | p . b c             | 51                 | 35              | 26                 | 1           | 0.4           |             | u                  |                         |                                   |               |               |
| London (Kew Obsy.) ... ..                      | o . o p d . r . o c . o p . b e p a b q | c a b c b q . b q     |                         |                     | 43                 | 37              | 33                 | 0.4         |               | 0.4         | v                  |                         |                                   |               |               |

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0 = light, 2 = heavy. Underlining is used to express continuity.

**SYMBOLS—**  
Aurora ☀ Solar halo ☼  
Rime ❄ Lunar halo ☾  
Glazed frost ❄ Solar corona ☼  
Glazed roads ❄ Lunar corona ☾

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                       |            |             | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |          |        |         |
|--------------------------------|------------------------------------------------|------------|-------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|--------|---------|
|                                | Morning                                        | Afternoon. | Night.      |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           |                                                                                                         |          |        |         |
|                                |                                                |            |             |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |
|                                | 24 HOURS ENDED 31 G.M.T. .... 22 <sup>ND</sup> |            |             |                       |                       |                           |                       | YESTERDAY.                            | TO-DAY.         |                | 22 <sup>ND</sup> + 23 <sup>RD</sup> DECEMBER 1918.                                        |                                                                                                         |          |        |         |
| Greenwich (Royal Observatory)  | o b c r                                        | c. d. b c  | b b x       | 51                    | 37                    | 28                        | 1                     | 0.0                                   | 73              | 74             | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Stations.                                                                                               | Sunrise. | Noon.  | Sunset. |
| City (Bunhill Row) ...         | *                                              | *          | *           | *                     | *                     | *                         | *                     | 0.0                                   | *               | *              |                                                                                           | G.M.T.                                                                                                  | G.M.T.   | G.M.T. |         |
| Westminster (St. James's Park) | *                                              | *          | *           | 52                    | 36                    | 28                        | 2                     | 0.0                                   | 82              | 78             | Total ... 43 ... Joules.<br>Milliwatts.                                                   | Yarmouth ...                                                                                            | 8.5      | 11.52  | 3.39    |
| " (Admiralty Arch)             | om g e r m y                                   | e b c b q  | b c q b b m | 53                    | 39                    | *                         | 2                     | 0.0                                   | 68              | 77             |                                                                                           | Greenwich                                                                                               | 8.6      | 11.59  | 3.52    |
| Camden Sq. (British Rainfall)  | *                                              | *          | *           | 51                    | 36                    | 31                        | 2                     | *                                     | *               | 78             | Average Rate. 1.5<br>Maximum Rate. 15                                                     | Wick ...                                                                                                | 9.4      | 12.11  | 3.18    |
| Kensington Palace ...          | r b c                                          | o b c o    | *           | 52                    | 36                    | 32                        | 1                     | *                                     | 79              | 79             |                                                                                           | Valencia ...                                                                                            | 8.50     | 12.40  | 4.30    |
|                                |                                                |            |             |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         | 8.50     | 12.40  | 4.30    |

## NOTES ON THE WEATHER OF YESTERDAY.

Winds were between W. and N.W. over the country generally. Wind reached gale force in the evening or at night at several stations in England; Spurn Head, Jersey and Liverpool reporting winds of force 9. Weather was cloudy to overcast with fairer intervals. Heavy showers of hail or sleet were general especially in the North. Eskdalemuir reported snow lying at 18h. Birr Castle recorded as much as 7.7 hours of sunshine but elsewhere amounts were poor.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 2125B Tuesday, 23<sup>rd</sup> December, 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H. |                |                    |       |             |          |                |                    |              |                     |            |              |                        |                                 |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
|-------------------------------------------------------------------------|----------------|--------------------|-------|-------------|----------|----------------|--------------------|--------------|---------------------|------------|--------------|------------------------|---------------------------------|--------|----------------|--------------------|----------|-----------|-------------|-------------|-----------------|------------|--------------|-------|-----------|-------|-----------|
| STATIONS.                                                               | BAROM.         | †                  | WIND. |             | WEATHER. | TEMP.          | HUMIDITY.          | VISIBILITY.  | Height              | Low Cloud. | Upper Cloud. | Sea.                   | BAROM.                          | †      | WIND.          |                    | WEATHER. | TEMP.     | HUMIDITY.   | VISIBILITY. | Height          | Low Cloud. | Upper Cloud. | Sea.  |           |       |           |
|                                                                         | at M.S.L. m.b. | Change in 3 hours. | Dir.  | Force 0-12. |          | °F.            | %                  | 0-10.        | Feet.               | Form.      | Am. 0-10.    | Form.                  | Am. 0-10.                       | 0-9.   | at M.S.L. m.b. | Change in 3 hours. |          | Dir.      | Force 0-12. | °F.         | %               | 0-10.      | Feet.        | Form. | Am. 0-10. | Form. | Am. 0-10. |
| 13H. G.M.T. 22 <sup>nd</sup>                                            |                |                    |       |             |          |                |                    |              |                     |            |              |                        | 18H. G.M.T. OF 22 <sup>nd</sup> |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| †Houton B.(Orkney)                                                      | 1003.6         | -4                 | W     | 3           | od       | 34             | 92                 | 5            | 1-1500              | St         | 10           | -                      | 1000.0                          | -4     | -              | -                  | om       | 33        | 97          | 3           | <500            | St         | 10           | -     | -         | -     |           |
| †Eskdalemuir ...                                                        | 1003.6         | -4                 | W     | 3           | od       | 34             | 92                 | 5            | 1-1500              | St         | 10           | -                      | 1000.0                          | -4     | -              | -                  | om       | 33        | 97          | 3           | <500            | St         | 10           | -     | -         | -     |           |
| †Stranraer ...                                                          | 1003.6         | -4                 | W     | 3           | od       | 34             | 92                 | 5            | 1-1500              | St         | 10           | -                      | 1000.0                          | -4     | -              | -                  | om       | 33        | 97          | 3           | <500            | St         | 10           | -     | -         | -     |           |
| †Lough Foyle ...                                                        | 1003.6         | -4                 | W     | 3           | od       | 34             | 92                 | 5            | 1-1500              | St         | 10           | -                      | 1000.0                          | -4     | -              | -                  | om       | 33        | 97          | 3           | <500            | St         | 10           | -     | -         | -     |           |
| †Valencia (Cahire'n)                                                    | 1013.6         | -4                 | WSW   | 7           | od       | 52             | 97                 | 5            | <500                | St         | 10           | -                      | 1010.7                          | -2     | WSW            | 6                  | 0        | 52        | 87          | 6           | <1000           | St         | 10           | -     | -         | 5     |           |
| †Anglesey (Llangefni)                                                   | 1004.7         | -4                 | SW    | 6           | 0        | 43             | 97                 | 5            | 1-2000              | Nb         | 10           | -                      | 1011.8                          | -2     | W              | 8                  | om       | 50        | 97          | 10          | -               | Nb         | 10           | -     | -         | -     |           |
| †Falmouth ...                                                           | 1017.7         | -4                 | W     | 5           | od       | 49             | 95                 | 5            | -                   | Nb         | 10           | -                      | 1005.5                          | -8     | WSW            | 5                  | ot       | 46        | 97          | 2           | 1-1500          | Nb         | 10           | -     | -         | 4     |           |
| †Calshot (Hants) ...                                                    | 1011.3         | -3                 | WSW   | 4           | ot       | 45             | 97                 | 3            | 1-1500              | Nb         | 10           | -                      | 1005.9                          | -8     | WSW            | 5                  | ot       | 46        | 97          | 2           | 1-1500          | Nb         | 10           | -     | -         | 4     |           |
| †Capel (Folkestone)                                                     | 1011.4         | -3                 | W     | 7           | 0        | 41             | 82                 | 6            | -                   | -          | ASr          | 10                     | -                               | 1005.9 | -8             | SW                 | 7        | ot        | 42          | 97          | 3               | <1000      | Nb           | 10    | -         | -     | -         |
| 1H. G.M.T. OF 23 <sup>rd</sup>                                          |                |                    |       |             |          |                |                    |              |                     |            |              |                        | 7H. G.M.T. OF 23 <sup>rd</sup>  |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| †Houton B.(Orkney)                                                      | 999.4          | -1                 | -     | 0           | oe       | 31             | 98                 | 6            | -                   | St         | 10           | -                      | 994.3                           | -7     | SSW            | 1                  | otrm     | 32        | 98          | 2           | -               | Nb         | 10           | -     | -         | -     |           |
| †Eskdalemuir ...                                                        | 999.4          | -1                 | -     | 0           | oe       | 31             | 98                 | 6            | -                   | St         | 10           | -                      | 994.3                           | -7     | SSW            | 1                  | otrm     | 32        | 98          | 2           | -               | Nb         | 10           | -     | -         | -     |           |
| †Stranraer ...                                                          | 999.4          | -1                 | -     | 0           | oe       | 31             | 98                 | 6            | -                   | St         | 10           | -                      | 994.3                           | -7     | SSW            | 1                  | otrm     | 32        | 98          | 2           | -               | Nb         | 10           | -     | -         | -     |           |
| †Lough Foyle ...                                                        | 999.4          | -1                 | -     | 0           | oe       | 31             | 98                 | 6            | -                   | St         | 10           | -                      | 994.3                           | -7     | SSW            | 1                  | otrm     | 32        | 98          | 2           | -               | Nb         | 10           | -     | -         | -     |           |
| †Valencia (Cahire'n)                                                    | 1005.1         | -9                 | WSW   | 6           | om       | 51             | 97                 | 5            | -                   | St         | 10           | -                      | 1004.7                          | 0      | W              | 4                  | cp       | 49        | 87          | 7           | -               | Cu         | 8            | -     | -         | -     |           |
| †Anglesey (Llangefni)                                                   | 1008.8         | -1                 | W     | 7           | bc       | 51             | 92                 | 4            | -                   | St         | 4            | -                      | 1006.5                          | -5     | WSW            | 7                  | g.o.fe   | 52        | 92          | 1           | -               | Nb         | 10           | -     | -         | -     |           |
| †Falmouth ...                                                           | 1008.8         | -1                 | W     | 7           | bc       | 51             | 92                 | 4            | -                   | St         | 4            | -                      | 1002.4                          | -1     | W              | 4                  | od       | 49        | 99          | 5           | 1-1500          | Nb         | 10           | -     | -         | 3     |           |
| †Calshot (Hants) ...                                                    | 1008.8         | -1                 | W     | 7           | bc       | 51             | 92                 | 4            | -                   | St         | 4            | -                      | 1002.4                          | -1     | W              | 4                  | od       | 49        | 99          | 5           | 1-1500          | Nb         | 10           | -     | -         | 3     |           |
| †Capel (Folkestone)                                                     | 1008.8         | -1                 | W     | 7           | bc       | 51             | 92                 | 4            | -                   | St         | 4            | -                      | 1002.4                          | -1     | W              | 4                  | od       | 49        | 99          | 5           | 1-1500          | Nb         | 10           | -     | -         | 3     |           |
| §Aberdeen ...                                                           | 999.4          | -1                 | NNW   | 3           | b        | 35             | 92                 | 6            | -                   | -          | -            | -                      | 992.9                           | -4     | S              | 1                  | om       | 34        | 75          | 3           | -               | St         | 10           | -     | -         | 2     |           |
| †East Fortune ...                                                       | 999.4          | -1                 | NNW   | 3           | b        | 35             | 92                 | 6            | -                   | -          | -            | -                      | 992.9                           | -4     | S              | 1                  | om       | 34        | 75          | 3           | -               | St         | 10           | -     | -         | 2     |           |
| †Flam.borough Head                                                      | 998.8          | -1                 | NNW   | 3           | b        | 35             | 92                 | 6            | -                   | -          | -            | -                      | 996.4                           | -1     | SW             | 2                  | od       | 35        | 98          | 3           | 1-1500          | St         | 10           | -     | -         | -     |           |
| †Felixstowe ...                                                         | 999.1          | +1                 | NNW   | 1           | oe       | 38             | 98                 | 3            | 1-1500              | Cum        | 10           | -                      | 1000.6                          | 0      | SW             | 1                  | od       | 41        | 98          | 3           | <1000           | Nb         | 10           | -     | -         | 2     |           |
| †Cranwell (Lincs)                                                       | 999.5          | 0                  | N     | 2           | ber      | 37             | 98                 | 4            | 1-2000              | Nb         | 4            | -                      | 997.7                           | -3     | SSE            | 1                  | ot       | 38        | 98          | 4           | <1000           | Nb         | 10           | -     | -         | -     |           |
| †Bedford ...                                                            | 999.5          | 0                  | N     | 2           | ber      | 37             | 98                 | 4            | 1-2000              | Nb         | 4            | -                      | 997.7                           | -3     | SSE            | 1                  | ot       | 38        | 98          | 4           | <1000           | Nb         | 10           | -     | -         | -     |           |
| Benson ...                                                              | 999.3          | 0                  | *     | *           | *        | *              | *                  | *            | *                   | *          | *            | *                      | 999.0                           | -1     | WSW            | 3                  | ot       | 50        | 98          | 6           | -               | Nb         | 10           | -     | -         | -     |           |
| London ...                                                              | 999.3          | 0                  | *     | *           | *        | *              | *                  | *            | *                   | *          | *            | *                      | 1000.1                          | 0      | WSW            | 3                  | otrm     | 50        | 92          | 5           | -               | Nb         | 10           | -     | -         | -     |           |
| (M.O. at 1h)                                                            |                |                    |       |             |          |                |                    |              |                     |            |              |                        |                                 |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.                            |                |                    |       |             |          |                |                    |              |                     |            |              |                        |                                 |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| STATIONS.                                                               | BAROM.         | TEMP.              | WIND. |             | WEATHER. | BAROMETER.     |                    | TEMPERATURE. |                     | WIND.      |              | DIREC. of Upper Cloud. | WEATHER.                        | SEA.   | Rainfall mm.   | TEMP.              |          | WEATHER.  |             |             | Sunshine Hours. |            |              |       |           |       |           |
|                                                                         | at M.S.L. m.b. | °F.                | Dir.  | Force 0-12. |          | at M.S.L. m.b. | Change in 3 hours. | Temp. °F.    | Change in 24 hours. | Dir.       | Force 0-12.  |                        |                                 |        |                | Max. °F.           | Min. °F. | Morning.  | Afternoon.  | Night.      |                 |            |              |       |           |       |           |
| 18H. G.M.T. of 22 <sup>nd</sup>                                         |                |                    |       |             |          |                |                    |              |                     |            |              |                        | 7H. G.M.T. of 23 <sup>rd</sup>  |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| 24 HOURS ENDED 7H. 23 <sup>rd</sup>                                     |                |                    |       |             |          |                |                    |              |                     |            |              |                        |                                 |        |                |                    |          |           |             |             |                 |            |              |       |           |       |           |
| Lerwick ...                                                             | 991.6          | 35                 | SW    | 1           | bc       | 993.1          | -2                 | 33           | -3                  | -          | 0            | -                      | bc                              | 1      | 4              | 45                 | 35       | b         | b           | bc          | *               |            |              |       |           |       |           |
| Stornoway ...                                                           | 998.7          | 35                 | W     | 1           | bc       | 997.1          | -4                 | 37           | -1                  | 5          | 6            | -                      | ot                              | 5      | 3              | 38                 | 32       | cbe       | bc          | bcorg       | 0.0             |            |              |       |           |       |           |
| Castlebay (Barra's)                                                     | 999.7          | 39                 | -     | 0           | 0        | 989.5          | -3                 | 45           | +2                  | W          | 5            | W                      | bc                              | 5      | 1              | 45                 | 38       | 0         | 0           | op.bc       | 0.0             |            |              |       |           |       |           |
| Glasgow ...                                                             | 1000.6         | 35                 | WSW   | 2           | bm       | 993.4          | -9                 | 33           | -4                  | ESE        | 2            | -                      | otsp                            | 2      | 1              | 37                 | 33       | odsp      | odp         | corp        | 0.0             |            |              |       |           |       |           |
| Malin Head ...                                                          | 999.0          | 37                 | E     | 3           | omr      | 991.5          | 0                  | 45           | +3                  | W          | 5            | W                      | c                               | 5      | 15             | 48                 | 37       | omr       | omr         | om          | *               |            |              |       |           |       |           |
| Blacksod Point                                                          | 1002.2         | 52                 | W     | 3           | omr      | 999.4          | 0                  | 47           | -1                  | W          | 2            | -                      | om                              | 3      | 25             | 52                 | 45       | omr       | omr         | omrom       | *               |            |              |       |           |       |           |
| Roche's Point...                                                        | 1009.1         | 52                 | W     | 5           | c        | 1002.5         | -1                 | 52           | +6                  | W          | 3            | -                      | 0                               | 3      | 1              | 54                 | 45       | op        | o.c         | c.o         | *               |            |              |       |           |       |           |
| Birr Castle ...                                                         | 1004.0         | 52                 | W     | 4           | r        | 999.6          | *                  | 47           | +2                  | W          | 3            | -                      | r                               | *      | 9              | 52                 | 42       | ot        | ot          | otod        | 0.0             |            |              |       |           |       |           |
| Donaghadee ...                                                          | 1000.1         | 41                 | NE    | 2           | omr      | 996.1          | -3                 | 44           | +6                  | W          | 1            | -                      | om                              | 1      | 23             | 44                 | 37       | bc mp     | omr         | orm         | *               |            |              |       |           |       |           |
| Liverpool (Bidston)                                                     | 997.6          | 48                 | WSW   | 7           | r        | 995.4          | -3                 | 47           | +6                  | WSW        | 4            | W                      | r                               | 4      | 26             | 50                 | 41       | ot        | ot          | orm         | 0.0             |            |              |       |           |       |           |
| Holyhead ...                                                            | 999.8          | 50                 | W     | 6           | cpd      | 996.5          | -3                 | 50           | +7                  | WSW        | 5            | -                      | odm                             | 4      | 17             | 51                 | 42       | bc opd    | otmo        | odm         | 0.0             |            |              |       |           |       |           |
| Pembroke (St. Ann's Head)                                               | 1000.9         | 49                 | W     | 7           | og       | 1001.7         | -3                 | 51           | +5                  | W          | 6            | -                      | ogm                             | 6      | 2              | 51                 | 46       | og        | og          | og          | 0.0             |            |              |       |           |       |           |
| Scilly (St. Mary's)                                                     | 1014.3         | 50                 | WNW   | 8           | omd      | 1008.2         | -4                 | 51           | +3                  | WNW        | 6            | -                      | omd                             | 6      | 2              | 51                 | 47       | bc c      | c omd       | omd         | 1.7             |            |              |       |           |       |           |
| Jersey (St. Aubin)                                                      | 1013.7         | 49                 | WNW   | 6           | ogp      | 1009.2         | 0                  | 51           | +3                  | W          | 6            | -                      | 0                               | 4      | 3              | 51                 | 44       | 0         | ogp         | po.ro       | 0.0             |            |              |       |           |       |           |
| Portland Bill ...                                                       | 1006.2         | 49                 | W     | 7           | og       | 1005.4         | -1                 | 53           | +4                  | W          | 6            | -                      | og                              | 6      | -              | 52                 | 45       | og        | og          | og          | *               |            |              |       |           |       |           |
| Dungeness ...                                                           | 1000.5         | 45                 | SW    | 4           | ot       | 999.9          | *                  | 47           | +10                 | WSW        | 4            | SW                     | r                               | 4      | 2              | 48                 | 36       | bc, c     | cp. ot      | otocr       | *               |            |              |       |           |       |           |
| Wick ...                                                                | 996.7          | 32                 | W     | 2           | b        | 991.2          | -4                 | 37           | +3                  | ESE        | 2            | -                      | bc                              | 2      | 5              | 37                 | 26       | omsp      | omsp        | b.bc        | *               |            |              |       |           |       |           |
| Nairn ...                                                               | 998.1          | 35                 | W     | 1           | c        | 991.4          | *                  | 33           | -2                  | -          | 0            | -                      | og                              | 1      | -              | 37                 | 30       | cg        | c           | cg          | 0.0             |            |              |       |           |       |           |
| Leith ...                                                               | 999.0          | 37                 | SW    | 2           | c        | 992.9          | -3                 | 35           | -2                  | SW         | 1            | -                      | s                               | 2      | -              | 39                 | 33       | bc mo     | omoc        | omcos       | *               |            |              |       |           |       |           |
| Tynemouth ...                                                           | 1000.1         | 37                 | W     | 2           | m        | 995.5          | *                  | 36           | -1                  | W          | 2            | -                      | om                              | 2      | -              | 40                 | 35       | om        | om          | om          | *               |            |              |       |           |       |           |
| Spurn Head ...                                                          | 999.3          | 39                 | WSW   | 2           | ot       | 997.3          | 0                  | 38           | -1                  | WNW        | 3            | -                      | omr                             | 3      | 4              | 41                 | 35       | c         | ot          | orm.bc      | *               |            |              |       |           |       |           |
| Yarmouth (Gorleston)                                                    | 1003.2         | 40                 | W     | 3           | 0        | 999.3          | +2                 | 39           | +2                  | -          | 0            | -                      | ogm                             | 2      | 5              | 42                 | 37       | bcgc      | omr         | bcorm       | 1.4             |            |              |       |           |       |           |
| Clacton-on-Sea                                                          | 1004.3         | 41                 | SW    | 3           | 0        | 999.7          | 0                  | 41           | +3                  | S          | 1            | -                      | ogmd                            | 1      | 6              | 49                 | 37       | bc, c, og | ogt         | ogmd        | 0.1             |            |              |       |           |       |           |
| Nottingham ...                                                          | 998.9          | 43                 | SW    | 2           | ot       | 997.3          | *                  | 40           | -1                  | SSW        | 1            | -                      | ot                              | *      | 9              | 44                 | 38       | om        | ot          | to          | 0.0             |            |              |       |           |       |           |

† Air Ministry Station.

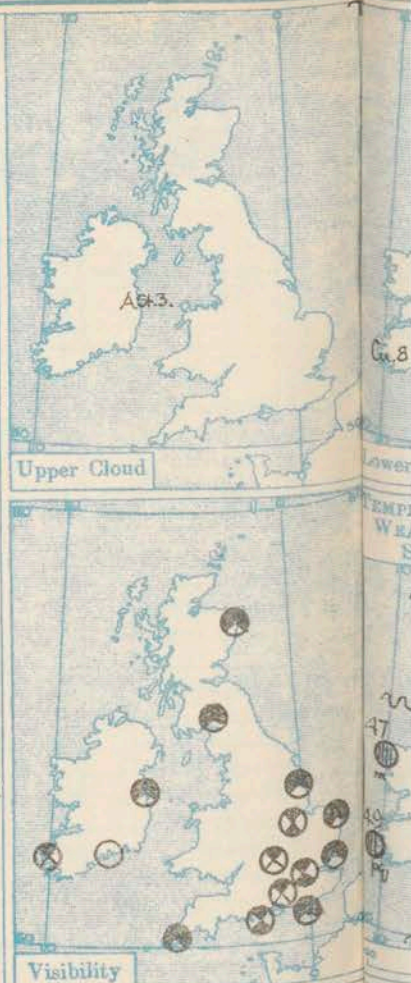
\* Information for these columns not usually received.

- The barometrical change is expressed in half millibars. § Longside † at 11.



# SUMMARY OF CONDITIONS AT 7 A.M. Tuesday, 23rd December, 1919.

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.                  | Visibility. | Sea.     |
|------------------------------|-----------------------------|--------------|----------------------------------------------------|-------------|----------|
| 1. S.E. England              | SW-W 10-15.                 | mild.        | Dull rainy, local mist;<br>high wind at Beachy Hd. | Var.        | Mod.     |
| 2. E. England                | S-SW 0-2.                   | Mod.         | Dull; local drizzle and<br>mist.                   | V. poor     | Smooth   |
| 3. E. Midlands               | S-SW 2-5.                   | "            | Dull, rainy.                                       | Fair        | -        |
| 4. W. Midlands               | SW-W 2-10.                  | "            | Dull, some rain.                                   | "           | -        |
| 5. S.W. England              | W. 25-35.                   | r.mild.      | Dull; local mist and<br>squalls.                   | v. good     | rough    |
| 6. South Wales               | W. 25-30                    | "            | Dull; misty; squally.                              | poor        | "        |
| 7. North Wales               | WSW. 20.                    | "            | Dull, some drizzle and<br>mist.                    | "           | Mod.     |
| 8. N.W. England              | S-SW 5-15.                  | "            | Dull, some rain.                                   | "           | "        |
| 9. N. Midlands               | S-SW 2-10.                  | Mod.         | Dull, some rain.                                   | "           | -        |
| 10. N.E. England             | SW-W 5.                     | r.cold       | Dull; local mist and<br>drizzle.                   | "           | Smooth   |
| 11. E. Scotland              | S-SW 0-2.                   | "            | Dull, local mist and snow.                         | "           | "        |
| 12. S.W. Scotland            | SE-S 2-5.                   | "            | Dull, some sleet and mist.                         | v. poor.    | "        |
| 13. Isle of Man              | SW-W 2-10.                  | r.mild       | Dull, local mist.                                  | Poor.       | Slight   |
| 14. N. & N.W. Scot-<br>land  | SE-S 2-10.                  | r.cold       | Fair to dull; local rain.                          | -           | Smooth   |
| 15. Hebrides                 | S. 20-30.                   | "            | Dull, some rain, squally.                          | Fair        | r. rough |
| 16. Orkneys and<br>Shetlands | SE-S 0-5.                   | "            | Fair.                                              | "           | Smooth.  |
| 17. N.W. Ireland             | W. 2-10.                    | r.mild.      | Cloudy or dull; local mist                         | Poor.       | Slight   |
| 18. N.E. Ireland             | W. 5-20.                    | "            | Cloudy or dull, local mist                         | "           | Var.     |
| 19. S.E. Ireland             | SW-W 10.                    | "            | Dull, local rain.                                  | Fair        | Slight   |
| 20. S.W. Ireland             | W. 10-15.                   | "            | Cloudy or dull, showers,<br>squalls.               | v. good     | Slight.  |



GENERAL INFERENCE from observations received up to 9 a.m.

A depression centred to the North-West of Scotland is moving East or South-East. South-Westerly to Westerly winds and unsettled weather are likely to be maintained.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 sky & clouded. ⊙ sky & clouded.  
 overcast sky. ⊖ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**  
 Rough ~~~~~ High ~~~~~

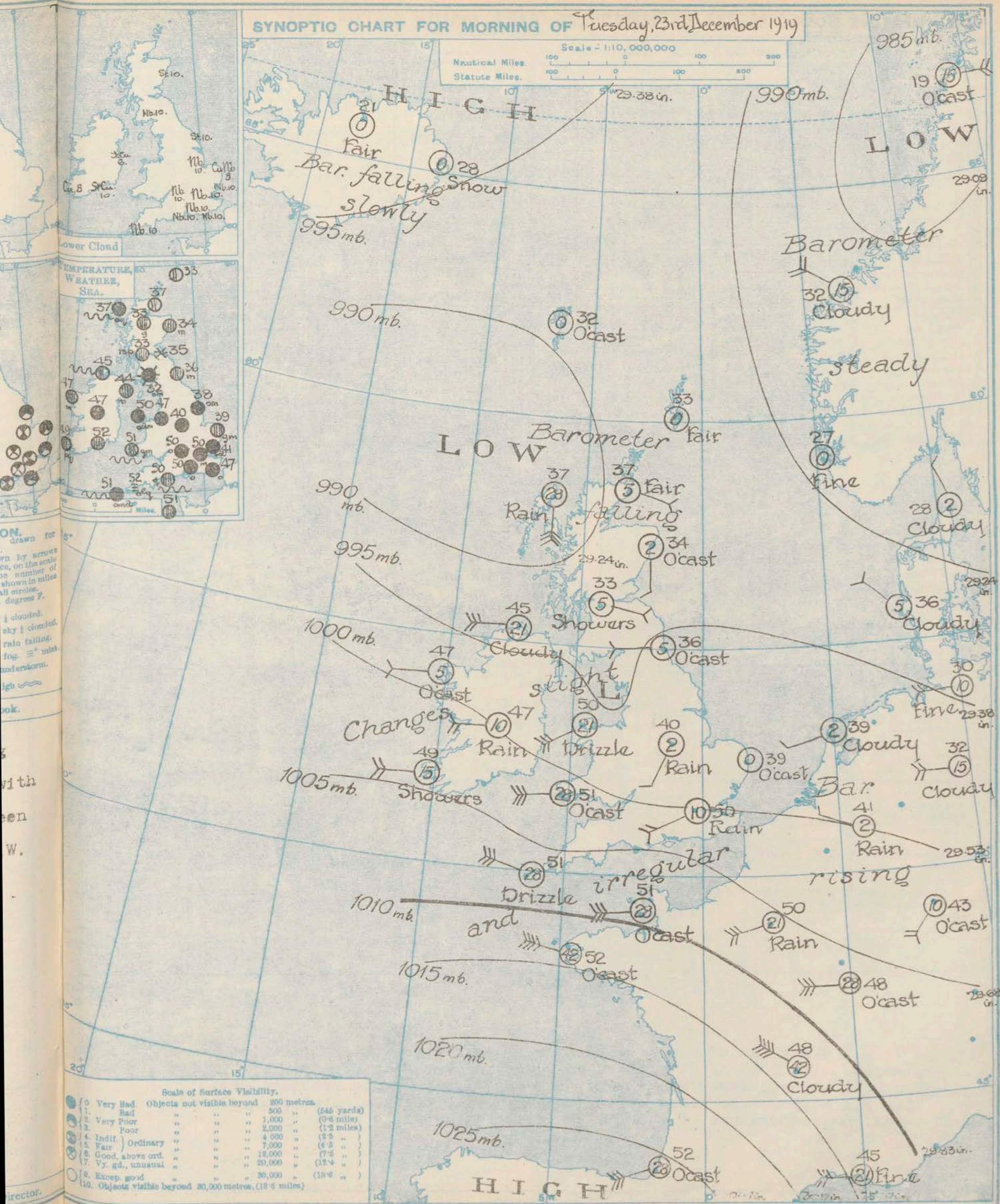
| Districts.                                                                                                                                                                           | Forecasts for the 24 hours commencing 3 p.m. Tuesday, 23rd December, 1919.                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Wind S.W. to W. Strong to high. Mainly overcast with low cloud, some rain at times. Visibility poor to indifferent. Mist locally. Mild. |
| 11. E. Scotland<br>12. S.W. Scotland<br>13. Isle of Man<br>14. N. & N.W. Scot-<br>land<br>15. Hebrides<br>16. Orkneys and<br>Shetlands                                               | Wind S. to S.W. Strong to high, cloudy or overcast, low clouds, some rain. Indifferent visibility. Rather mild.                         |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland                                                                                                         | Wind W. to N.W. Fresh or strong. Cloudy or overcast, low clouds. Visibility indifferent to fair. Rather mild or moderate temperature.   |

Further Outlook.

Continuing  
unsettled with  
winds between  
S.W. and N.W.



SYNOPTIC CHART FOR MORNING OF Tuesday, 23rd December 1919



Subjects not visible beyond 200 metres.

| Scale of surface visibility |                                                    |                            |                     |
|-----------------------------|----------------------------------------------------|----------------------------|---------------------|
| 9                           | Very Bad                                           | Objects not visible beyond | 500 metres.         |
| 11                          | Bad                                                | "                          | 500 " (546 yards)   |
| 12                          | Very Poor                                          | "                          | 1,000 " (0.6 miles) |
| 13                          | Poor                                               | "                          | 2,000 " (1.2 miles) |
| 14                          | Indist.                                            | "                          | 4,000 " (2.5 " )    |
| 15                          | Fair                                               | " Ordinary                 | 7,000 " (4.3 " )    |
| 16                          | Good, above ord.                                   | "                          | 15,000 " (7.5 " )   |
| 17                          | Vy. gd., unusual                                   | "                          | 20,000 " (12.4 " )  |
| 18                          | Except. good                                       | "                          | 30,000 " (18.6 " )  |
| 19                          | Objects visible beyond 30,000 metres, (18.6 miles) |                            |                     |



| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 22 <sup>nd</sup> |                        |           |            |              |          |                         |                       |           |                        |               |                       |           |             |              |          |                         |                       |           |                        |
|------------------------------------------------------------------------------------|------------------------|-----------|------------|--------------|----------|-------------------------|-----------------------|-----------|------------------------|---------------|-----------------------|-----------|-------------|--------------|----------|-------------------------|-----------------------|-----------|------------------------|
| STATIONS.                                                                          |                        | WEATHER.  |            | TEMPERATURE. |          | RAINFALL.               |                       | SUNSHINE. |                        | STATIONS.     |                       | WEATHER.  |             | TEMPERATURE. |          | RAINFALL.               |                       | SUNSHINE. |                        |
|                                                                                    |                        | Forenoon. | Afternoon. | Max. °F.     | Min. °F. | Night. 10h-9h. 21h-22h. | Day. 9h-10h. 22h-23h. | Hours.    | Sum. to Sun. set. 23h. |               |                       | Forenoon. | Afternoon.  | Max. °F.     | Min. °F. | Night. 10h-9h. 21h-22h. | Day. 9h-10h. 22h-23h. | Hours.    | Sum. to Sun. set. 23h. |
| Scotland.                                                                          | Oban ... ..            | od        | o          | 41           | 35       | 4                       | 0.3                   |           | 0.0                    | England, N.W. | Douglas (I.O.M.)      |           |             |              |          |                         |                       |           |                        |
|                                                                                    | Banff ... ..           | rs p      | orsh       | 37           | 33       | 2                       | 1                     |           | 0.0                    |               | Blackpool ... ..      | rs        | rs          | 44           | 34       | 5                       | 10                    |           | 0.0                    |
|                                                                                    | Montrose ... ..        |           |            |              |          |                         |                       |           |                        |               | Southport ... ..      | rs        | r           | 46           | 38       | -                       | 10                    |           | 0.0                    |
|                                                                                    | St. Andrews ... ..     | o         | o          | 38           | 33       | -                       | -                     |           | 0.0                    |               |                       |           |             |              |          |                         |                       |           |                        |
| England, N.E.                                                                      | Harrogate ... ..       | o         | or         | 39           | 32       | 3                       | 4                     |           | 0.0                    | Midlands.     | Buxton ... ..         |           |             |              |          |                         |                       |           |                        |
|                                                                                    | Skegness ... ..        |           |            |              |          |                         |                       |           |                        |               | Leamington Spa ... .. | o         | or          | 46           | 38       | -                       | 6                     |           | 0.0                    |
|                                                                                    |                        |           |            |              |          |                         |                       |           |                        |               | Malvern ... ..        |           |             |              |          |                         |                       |           |                        |
|                                                                                    |                        |           |            |              |          |                         |                       |           |                        |               | Ross-on-Wye ... ..    | c. od.    | od g. r. o. | 53           | 38       | Trace                   | 1                     |           | 0.1                    |
| England, E.                                                                        | Felixstowe ... ..      | bcq       | ogmr       | 42           | 38       | 0.3                     | 1                     |           | 0.9                    | Wales.        | Rhyl ... ..           | q         | q           | 50           | 34       | 1                       | 1                     |           | 0.0                    |
|                                                                                    | Walton-on-Naze ... ..  |           |            |              |          |                         |                       |           |                        |               | Colwyn Bay ... ..     | -         | -           | 50           | 38       | -                       | 7                     |           | 0.0                    |
|                                                                                    | Southend-on-Sea ... .. | ombc      | bcd. or    | 43           | 34       | -                       | 1                     |           | 0.7                    |               | Llandudno ... ..      | o         | or          | 49           | 39       | -                       | 8                     |           | 0.0                    |
|                                                                                    | Lowestoft ... ..       | bec. og   | or         | 42           | 37       | -                       | 1                     |           | 2.0                    |               | Aberystwyth ... ..    | r. o.     | c. o.       | 47           | 44       | *                       | *                     |           | 0.0                    |
| England, S.E.                                                                      | Margate ... ..         | c         | or         | 44           | 38       | -                       | -                     |           | 0.0                    | England, S.W. | Weymouth ... ..       | c. of. o. | of. o.      | 49           | 39       | 1                       | 1                     |           | 0.0                    |
|                                                                                    | Ramsgate ... ..        | o         | o          | 44           | 35       | -                       | 0.3                   |           | 0.0                    |               | Teignmouth ... ..     |           |             |              |          |                         |                       |           |                        |
|                                                                                    | Folkestone ... ..      | c. o.     | odr        | 44           | 35       | -                       | 1                     |           | 2.1                    |               | Torquay ... ..        | c. o.     | c. c. od    | 50           | 41       | 2                       | 0.2                   |           | 0.4                    |
|                                                                                    | Hastings ... ..        | b. bc. o  | or         | 46           | 36       | 0.4                     | 1                     |           | 2.1                    |               | Paignton ... ..       | c. c. q.  | of. q.      | 52           | 39       | 0.2                     | 0.1                   |           | 0.2                    |
|                                                                                    | Eastbourne ... ..      | bc. c. o. | or         | 48           | 38       | 0.1                     | 2                     |           | 0.3                    |               | Penzance ... ..       | c. bc.    | c. odr      | 52           | 45       | 1                       | 2                     |           | 2.1                    |
|                                                                                    | Brighton ... ..        | bc. c. o. | or         | 46           | 38       | -                       | 1                     |           | 0.8                    |               | Newquay ... ..        | o. b. or. | orm         | 50           | 43       | 4                       | 2                     |           | 1.7                    |
|                                                                                    | Worthing ... ..        | c         | od         | 45           | 37       | 1                       | 1                     |           | 0.7                    |               | Bude ... ..           | o. bc. o  | o. cd.      | 51           | 47       | 1                       | 1                     |           | 0.7                    |
|                                                                                    | Littlehampton ... ..   | bc        | rg         | 48           | 37       | -                       | 3                     |           | 0.0                    |               | Ilfracombe ... ..     | or. p.    | or. p.      | 51           | 40       | 1                       | 1                     |           | 0.0                    |
|                                                                                    | Bournemouth ... ..     | o         | o          | 47           | 37       | 1                       | 1                     |           | 0.1                    |               | Weston-s-Mare ... ..  | or. c.    | r. or       | 48           | 39       | -                       | 1                     |           | 0.0                    |
|                                                                                    | Tunbridge Wells ... .. | b. bc. c. | od. or     | 44           | 36       | -                       | 3                     |           | 1.3                    |               |                       |           |             |              |          |                         |                       |           |                        |

| STATIONS.                   | SUMMARIES FOR PAST 24 HOURS. |                        |                        |                      |                       |                       |                              |                 |                   | Sun.<br>Hours. |
|-----------------------------|------------------------------|------------------------|------------------------|----------------------|-----------------------|-----------------------|------------------------------|-----------------|-------------------|----------------|
|                             | WEATHER                      |                        |                        |                      | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min.<br>on<br>Grass.<br>° F. | RAINFALL.       |                   |                |
|                             | 7h-13h. <sup>22</sup>        | 13h-18h. <sup>22</sup> | 18h-23h. <sup>22</sup> | 1h-7h. <sup>23</sup> |                       |                       |                              | Day.<br>7h-18h. | Night.<br>18h-7h. |                |
| †Houton Bay (Orkney)...     | bc, c. o., od, or, sm        | od, or, sm             | od, or, sm             | od, or, sm           | 37                    | 30                    | 27                           | 1               | 1                 | 0.0            |
| †Stranraer ...              |                              |                        |                        |                      |                       |                       |                              |                 |                   |                |
| †Lough Foyle ...            |                              |                        |                        |                      |                       |                       |                              |                 |                   |                |
| †Valencia (Cahirciveen) ... | bc, od                       | od                     | od                     | od, or, sm           | 53                    | 48                    | 46                           | 1               | 1                 | 0.0            |
| †Anglesey (Llangefni) ...   | od                           |                        |                        |                      |                       |                       |                              |                 |                   |                |
| Falmouth ...                | bc, c. q.                    | od, or, sm             | od, or, sm             | od, or, sm           | 52                    | 46                    | 48                           | 2               | Trace             | 1.4            |
| †Calshot (Hants) ...        | q                            | or                     | or                     | or                   | 53                    | 41                    |                              |                 |                   |                |
| †Capel (Folkestone) ...     | bc                           | or                     | or                     | or                   |                       |                       |                              |                 |                   |                |
| Aberdeen ...                | bc, sp. q.                   | bc, q.                 | bc, q.                 | bc, q.               | 36                    | 32                    | 28                           | 1               | -                 | 0.4            |
| †East Fortune ...           | c. o. of.                    | c. o. of.              | c. o. of.              | c. o. of.            | 41                    | 33                    |                              |                 |                   |                |
| †Flamborough Head ...       | c. o. q.                     | or                     | or                     | or                   | 47                    | 38                    |                              |                 |                   |                |
| †Felixstowe ...             | q                            | q                      | q                      | q                    | 41                    | 36                    |                              |                 |                   |                |
| †Cranwell (Lines) ...       | c. o. m.                     | o. p.                  | o. p.                  | o. p.                |                       |                       |                              |                 |                   |                |
| †Bedford ...                |                              |                        |                        |                      |                       |                       |                              |                 |                   |                |
| Benson ...                  | bc, of.                      | or                     | or                     | or                   | 51                    | 37                    | 40                           | 4               | 1                 |                |
| London (Kew Obs.) ...       | bc, c. o., od, or, sm        | od, or, sm             | od, or, sm             | od, or, sm           | 52                    | 40                    | 40                           | 5               | 2                 | 0.6            |

| THE BEAUFORT SCALE OF WIND FORCE. |                         |                    |
|-----------------------------------|-------------------------|--------------------|
| No.                               | Limits of Velocity.     |                    |
|                                   | Statute miles per hour. | Metres per second. |
| 0                                 | Less than 1             | Less than 0.3      |
| 1                                 | 1-2                     | 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                   | 24.5-23.4          |
| 11                                | 64-75                   | 28.6-33.5          |
| 12                                | Above 75                | 32.0 or above      |

6 blue sky (not more than a quarter covered).  
bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog, g gloom.  
h hail, l lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

**SYMBOLS**—  
Aurora ☾ Solar halo ☉  
Rime ☽ Lunar halo ☾  
Glazed frost ☾ Solar corona ☉  
Glazed roads ☾ Lunar corona ☉

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                  |             |           | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | Humidity %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |             |            |                |        |        |        |
|--------------------------------|-------------------------------------------|-------------|-----------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------|--------|--------|--------|
|                                | Morning                                   | Afternoon.  | Night.    |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           | 23 <sup>rd</sup> & 24 <sup>th</sup> Dec <sup>r</sup> 1919.                                              |             |            |                |        |        |        |
|                                | 24 Hours ended 9h G.M.T. 23 <sup>rd</sup> |             |           |                       |                       |                           |                       |                                       | YESTERDAY.      |                |                                                                                           | TO-DAY.                                                                                                 |             | Stations.  |                |        |        |        |
| Greenwich (Royal Observatory)  | c. o                                      | o c o r     | o r o     | 52                    | 39                    | 39                        | 6                     | 0.5                                   | 88              | 92             | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Yarmouth ... {                                                                                          | Greenwich { | Wick ... { | Valencia ... { |        |        |        |
| City (Bunhill Row) ...         | *                                         | *           | *         | *                     | *                     | *                         | 3                     | 0.0                                   | 89              | 97             |                                                                                           |                                                                                                         |             |            |                | G.M.T. | G.M.T. | G.M.T. |
| Westminster (St. James's Park) | *                                         | *           | *         | 52                    | 39                    | 33                        | 7                     | 0.3                                   | 89              | 97             |                                                                                           |                                                                                                         |             |            |                | G.M.T. | G.M.T. | G.M.T. |
| " (Admiralty Arch)             | b n g o m q                               | o n g o z r | o s d o r | 53                    | 40                    | *                         | 6                     | 0.0                                   | 91              | 97             |                                                                                           |                                                                                                         |             |            |                | 8.5    | 11.52  | 3.38   |
| Camden Sq. (British Rainfall)  | b c                                       | o r         | *         | 52                    | 39                    | 34                        | 7                     | *                                     | 92              | 99             |                                                                                           |                                                                                                         |             |            |                | 8.6    | 11.53  | 3.40   |
| Kensington Palace ...          | o                                         | o r         | *         | 53                    | 38                    | 48                        | 7                     | *                                     | 97              | 98             | Total 10.6 Joules.                                                                        | 8.7                                                                                                     | 12.0        | 3.53       |                |        |        |        |
|                                |                                           |             |           |                       |                       |                           |                       |                                       |                 |                | Milliwatts.                                                                               |                                                                                                         |             |            |                |        |        |        |
|                                |                                           |             |           |                       |                       |                           |                       |                                       |                 |                | Average Rate. 3.8                                                                         |                                                                                                         |             |            |                |        |        |        |
|                                |                                           |             |           |                       |                       |                           |                       |                                       |                 |                | Maximum Rate. 8                                                                           |                                                                                                         |             |            |                |        |        |        |

### NOTES ON THE WEATHER OF YESTERDAY.

The day was cloudy or dull in all districts with rain at most stations. As much as 26 m.m. of rain were measured at Liverpool. Little sunshine was recorded, Folkestone, Hastings and Penzance recorded most with 2.1 hours. The temperatures were moderate, several stations recorded a maximum temperature of over 50° F. especially in the West.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 2626 B. WEDNESDAY... 24<sup>th</sup> DECEMBER... 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H. |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 |                      |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       |               |             |
|-------------------------------------------------------------------------|--------------------------------|-------------------------------|-----------------------------------|----------|------------------------------------|------------------------------|-------------------------------|------------------------------------|------------------------------------|---------------|-----------------------|-----------------|----------------------|---------------------------------|-------------------------------|-----------------------------------|----------|--------------------|-------------------------------------|-------------------------------|-------------------------------------|---------------------|---------------|-----------------------|---------------|-------------|
| STATIONS.                                                               | BAROM.<br>at<br>M.S.L.<br>m.b. | †<br>Change<br>in 3<br>hours. | WIND.<br>Direc.<br>Force<br>0-12. | WEATHER. | TEMP.<br>°F.                       | HUMIDITY.<br>%               | VISIBILITY.<br>0-10.<br>Feet. | Height<br>of Low<br>Cloud<br>Feet. | Low Cloud.<br>Form.                | Amt.<br>0-10. | Upper Cloud.<br>Form. | Amt.<br>0-10.   | Sea<br>0-9.          | BAROM.<br>at<br>M.S.L.<br>m.b.  | †<br>Change<br>in 3<br>hours. | WIND.<br>Direc.<br>Force<br>0-12. | WEATHER. | TEMP.<br>°F.       | HUMIDITY.<br>%                      | VISIBILITY.<br>0-10.<br>Feet. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud.<br>Form. | Amt.<br>0-10. | Upper Cloud.<br>Form. | Amt.<br>0-10. | Sea<br>0-9. |
| 13H. G.M.T. of 23 <sup>rd</sup>                                         |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 |                      | 19H. G.M.T. OF 23 <sup>rd</sup> |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       |               |             |
| †Houton B. (Orkney)                                                     | 992.6                          | 0                             | WSW 5                             | o        | 38                                 | 82                           | 6                             | 2-3000                             | ST Cu                              | 7             | cu                    | 2               | *                    | 992.5                           | 0                             | WSW 4                             | ocl      | 37                 | 87                                  | 5                             | -                                   | ST                  | 7             | cu                    | 2             | *           |
| †Eskdalemuir ...                                                        |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Stranraer ...                                                          |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Lough Foyle ...                                                        |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Valencia (Cahire'n)                                                    | 1003.6                         | -3                            | WSW 4                             | c        | 50                                 | 75                           | 8                             | 2-3000                             | ST                                 | 4             | cu                    | 3               | 3                    | 1003.4                          | 0                             | WSW 4                             | c        | 48                 | 75                                  | 7                             | 2-3000                              | cu                  | 4             | cu                    | 3             | 4           |
| †Anglesey (Llangefni)                                                   | 999.2                          | +1                            | WSW 4                             | o        | 46                                 | 87                           | 7                             | 2-3000                             | ST                                 | 10            | -                     | -               | 4                    | 1004.5                          | -3                            | WSW 5                             | odq      | 50                 | 92                                  | 1                             | -                                   | Nb                  | 10            | -                     | -             | *           |
| †Falmouth ...                                                           | 1016.2                         | -1                            | WNW 6                             | odq      | 50                                 | 92                           | 2                             | -                                  | Nb                                 | 10            | -                     | -               | *                    | 1019.9                          | +3                            | W 2                               | bc       | 48                 | 87                                  | 4                             | 2-3000                              | ST                  | 5             | -                     | -             | 4           |
| †Calshot (Hants) ...                                                    | 1001.4                         | -1                            | SW 2                              | o        | 52                                 | 98                           | 4                             | 1-1500                             | ST                                 | 10            | -                     | -               | 3                    | 999.4                           | 0                             | W 6                               | bcq      | 50                 | 87                                  | 5                             | 1 1/2-2000                          | ST                  | 3             | -                     | -             | -           |
| †Capel (Folkestone)                                                     |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| Aberdeen ...                                                            | 987.6                          | -5                            | SSW 1                             | bcz      | 36                                 | 82                           | 3                             | -                                  | -                                  | -             | 7 cu                  | 4               | 2                    | 985.9                           | -2                            | SW 3                              | b        | 38                 | 75                                  | 7                             | -                                   | -                   | -             | -                     | 2             |             |
| †East Fortune ...                                                       | 989.4                          | -2                            | W 4                               | c        | 41                                 | 87                           | 4                             | 4-5000                             | ST                                 | 3             | cu                    | 4               | *                    | 988.0                           | -4                            | W 4                               | c        | 40                 | 82                                  | -                             | 4-5000                              | ST                  | 8             | -                     | -             | *           |
| †Flamboro' Head                                                         | 994.1                          | -3                            | WSW 4                             | o        | 40                                 | 98                           | 2                             | 1-1500                             | ST                                 | 4             | ast                   | 6               | *                    | 994.6                           | +1                            | W 5                               | c        | 41                 | 82                                  | 3                             | 1 1/2-2000                          | ST                  | 5             | cu                    | 2             | *           |
| †Felixstowe ...                                                         | 998.0                          | -4                            | NW 3                              | om       | 51                                 | 92                           | 4                             | 1-1000                             | ST Cu                              | 10            | -                     | -               | 3                    | 999.0                           | +2                            | WNW 4                             | c        | 46                 | 92                                  | 4                             | 1-1500                              | ST Cu               | 8             | -                     | -             | 4           |
| †Cranwell (Lincs)                                                       | 995.8                          | -1                            | W 4                               | o        | 47                                 | 82                           | 6                             | 2-3000                             | cu                                 | 4             | ast                   | 3               | *                    | 996.7                           | 0                             | W 3                               | bc       | 42                 | 75                                  | 5                             | 2-3000                              | ST                  | 3             | cu                    | 3             | *           |
| †Bedford ...                                                            |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| Benson ...                                                              | 997.8                          | -2                            | WSW 4                             | c        | 53                                 | 87                           | 6                             | -                                  | -                                  | -             | -                     | -               | *                    | 999.7                           | 0                             | WSW 3                             | o        | 47                 | 87                                  | 7                             | -                                   | -                   | -             | -                     | *             |             |
| London (Kew Ob.)                                                        | 998.3                          | -4                            | WSW 4                             | o        | 54                                 | 82                           | 7                             | 2-3000                             | ST Cu                              | 8             | ast                   | 2               | *                    | 1000.0                          | +1                            | W 4                               | o        | 50                 | 75                                  | 7                             | 2-3000                              | ST Cu               | 10            | -                     | -             | *           |
| 1H. G.M.T. OF 24 <sup>th</sup>                                          |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 |                      | 7H. G.M.T. OF 24 <sup>th</sup>  |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       |               |             |
| †Houton B. (Orkney)                                                     | 991.2                          | -1                            | W 5                               | bc       | 36                                 | 87                           | 6                             | -                                  | Cum                                | 6             | -                     | -               | *                    | 993.4                           | +3                            | SW 3                              | ors      | 34                 | 92                                  | 5                             | -                                   | Nb                  | 9             | -                     | -             | *           |
| †Eskdalemuir ...                                                        |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Stranraer ...                                                          |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Lough Foyle ...                                                        |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Valencia (Cahire'n)                                                    | 1002.1                         | 0                             | WNW 6                             | bcq      | 46                                 | *                            | *                             | *                                  | *                                  | *             | *                     | *               | 5                    | 1002.2                          | -1                            | WSW 5                             | bdq      | 42                 | 87                                  | 8                             | 2-3000                              | CNb                 | 5             | -                     | -             | *           |
| †Anglesey (Llangefni)                                                   |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Falmouth ...                                                           | 1003.9                         | -1                            | W 6                               | odq      | 48                                 | 87                           | 3                             | -                                  | Nb                                 | 10            | -                     | -               | *                    | 1006.9                          | +2                            | W 4                               | b        | 44                 | 75                                  | 5                             | -                                   | -                   | -             | -                     | *             |             |
| †Calshot (Hants) ...                                                    | 1001.2                         | -1                            | W 3                               | o        | 48                                 | 92                           | 2                             | 1 1/2-2000                         | ST                                 | 10            | -                     | -               | 4                    | 1004.7                          | +4                            | W 2                               | b        | 43                 | 92                                  | 5                             | 2-4000                              | ST                  | 1             | -                     | -             | 2           |
| †Capel (Folkestone)                                                     | 1001.5                         | +3                            | NW 4                              | b        | 47                                 | 75                           | 6                             | 2-3000                             | Nb                                 | 2             | -                     | -               | ?                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       |               |             |
| Aberdeen ...                                                            |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    | 990.6                           | +3                            | WNW 3                             | em       | 34                 | 92                                  | 5                             | -                                   | CNb                 | 2             | ast                   | 4             | 2           |
| †East Fortune ...                                                       |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Flamboro' Head                                                         |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| †Felixstowe ...                                                         | 999.1                          | +1                            | WNW 4                             | o        | 44                                 | 98                           | 3                             | 1-1000                             | Cum                                | 6             | -                     | -               | 3                    | 999.5                           | +2                            | NW 4                              | b        | 42                 | 98                                  | 4                             | 1-1000                              | ST Cu               | 3             | -                     | -             | 3           |
| †Cranwell (Lincs)                                                       | 995.6                          | 0                             | WSW 5                             | c        | 40                                 | 92                           | 4                             | 2-3000                             | ST                                 | 7             | -                     | -               | *                    | 998.3                           | +3                            | WNW 3                             | bc       | 36                 | 92                                  | 5                             | 2-3000                              | ST                  | 2             | ast                   | 2             | *           |
| †Bedford ...                                                            |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 | *                    |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       | *             |             |
| Benson ...                                                              | *                              | *                             | *                                 | *        | *                                  | *                            | *                             | *                                  | *                                  | *             | *                     | *               | *                    | 1000.6                          | +3                            | WSW 4                             | b        | 41                 | 87                                  | 8                             | -                                   | Cu                  | 2             | -                     | -             | *           |
| London ...                                                              | 999.0                          | -1                            | *                                 | *        | *                                  | *                            | *                             | *                                  | *                                  | *             | *                     | *               | *                    | 1001.3                          | +3                            | WSW 3                             | bz       | 43                 | 82                                  | 5                             | 3-4000                              | ST Cu               | 1             | -                     | -             | *           |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 19H.                            |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 |                      |                                 |                               |                                   |          |                    |                                     |                               |                                     |                     |               |                       |               |             |
| STATIONS.                                                               | BAROM.<br>at<br>M.S.L.<br>m.b. | TEMP.<br>°F.                  | WIND.<br>Direc.<br>Force<br>0-12. | WEATHER. | BAROMETER.<br>at<br>M.S.L.<br>m.b. | TEMPERATURE.<br>Temp.<br>°F. | Change<br>in<br>24 hours.     | WIND.<br>Direc.<br>Force<br>0-12.  | Upper<br>Cloud.<br>Direc.<br>0-12. | Weather.      | Sea<br>0-9.           | Rainfall<br>mm. | TEMP.<br>Max.<br>°F. | Min.<br>°F.                     | WEATHER.<br>Morning.          | Afternoon.                        | Night.   | Sunshine<br>Hours. |                                     |                               |                                     |                     |               |                       |               |             |
| 19H. G.M.T. of 24 <sup>th</sup>                                         |                                |                               |                                   |          |                                    |                              |                               |                                    |                                    |               |                       |                 |                      |                                 |                               |                                   |          |                    | 24 HOURS ENDED 7H. 24 <sup>th</sup> |                               |                                     |                     |               |                       |               |             |
| Lerwick ...                                                             | 985.9                          | 36                            | E 3                               | bc       | 989.3                              | +2                           | 34                            | +1                                 | N 1                                | -             | bcu                   | 1               | 0.1                  | 42                              | 31                            | bc                                | bc       | bcu                | *                                   |                               |                                     |                     |               |                       |               |             |
| Stornoway ...                                                           | 984.5                          | 38                            | W 3                               | o        | 989.8                              | +1                           | 30                            | -7                                 | - 0                                | -             | b                     | 1               | 8                    | 41                              | *                             | oph                               | oph      | bob                | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Castlebay (Barra's)                                                     | 978.4                          | 44                            | W 5                               | bc       | 989.7                              | 0                            | 40                            | -5                                 | W 2                                | -             | bc                    | 3               | 46                   | 37                              | bcu                           | bcu                               | bcu      | 2.0                |                                     |                               |                                     |                     |               |                       |               |             |
| Glasgow ...                                                             | 991.3                          | 40                            | WSW 3                             | b        | 993.0                              | +2                           | 36                            | +3                                 | WSW 3                              | SW            | b                     | *               | 4                    | 42                              | 32                            | ors                               | ors      | borsp              | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Malin Head ...                                                          | 990.8                          | 43                            | W 4                               | c        | 991.1                              | 0                            | 40                            | -5                                 | WSW 3                              | SW            | cp                    | 4               | 46                   | 39                              | cp                            | cp                                | cp       | 0.2                |                                     |                               |                                     |                     |               |                       |               |             |
| Blackod Point                                                           | 995.6                          | 45                            | W 4                               | omr      | 994.8                              | 0                            | 43                            | -4                                 | WSW 4                              | -             | or                    | 3               | 47                   | 39                              | bc                            | omr                               | omr      | *                  |                                     |                               |                                     |                     |               |                       |               |             |
| Roche's Point...                                                        | 1002.2                         | 47                            | W 3                               | c        | 1002.6                             | -1                           | 42                            | -10                                | WSW 2                              | -             | b                     | 3               | 0.2                  | 53                              | 41                            | o.c                               | c o c    | cb                 | *                                   |                               |                                     |                     |               |                       |               |             |
| Birr Castle ...                                                         | 998.8                          | 43                            | W 2                               | r        | 999.1                              | *                            | 40                            | -7                                 | W 2                                | -             | o                     | *               | 4                    | 47                              | 36                            | odr                               | or       | opo                | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Donaghadee ...                                                          | 995.6                          | 42                            | SW 4                              | omg      | 995.2                              | +1                           | 37                            | -7                                 | W 3                                | -             | bm                    | 2               | 45                   | 35                              | bcu                           | em                                | bcu      | *                  |                                     |                               |                                     |                     |               |                       |               |             |
| Liverpool (Bidston)                                                     | 996.3                          | 45                            | W 4                               | t        | 997.0                              | +1                           | 42                            | -5                                 | W 5                                | W             | bc                    | 5               | 3                    | 47                              | 40                            | og                                | og       | opq, bc            | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Holyhead ...                                                            | 997.1                          | 46                            | WSW 6                             | og       | 998.1                              | +1                           | 43                            | -7                                 | W 6                                | -             | bq                    | 5               | 3                    | 50                              | 42                            | odc og                            | opog     | op, bc             | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Pembroke (St. Ann's Head)                                               | 1001.6                         | 49                            | WSW 4                             | o        | 1002.3                             | +1                           | 47                            | -4                                 | W 6                                | W             | bcq                   | 5               | 0.3                  | 51                              | 45                            | ocg                               | bc, c.o  | ocp                | 2.2                                 |                               |                                     |                     |               |                       |               |             |
| Scilly (St. Mary's)                                                     | 1006.3                         | 50                            | W 5                               | om       | 1008.9                             | +3                           | 47                            | -4                                 | W 5                                | -             | bc                    | 5               | 5                    | 51                              | 45                            | omd                               | omd      | cbc                | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Jersey (St. Aubin)                                                      | 1007.0                         | 53                            | WSW 6                             | odm      | 1008.0                             | +1                           | 48                            | -3                                 | W 5                                | -             | b                     | 4               | 6                    | 53                              | 46                            | ocogp                             | op, bc   | op, bc             | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Portland Bill ...                                                       | 1003.4                         | 51                            | W 5                               | bc       | 1002.7                             | +2                           | 49                            | -2                                 | W 5                                | W             | bc                    | 5               | 0.4                  | 52                              | 45                            | og                                | o bc     | cp, bc             | *                                   |                               |                                     |                     |               |                       |               |             |
| Dungeness ...                                                           | 999.7                          | 47                            | WSW 4                             | o        | 1000.2                             | *                            | 44                            | -3                                 | WSW 4                              | -             | b                     | 3               | 0.1                  | 49                              | 44                            | crc o                             | oc, bc   | oc, bc             | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Wick ...                                                                | 978.8                          | 36                            | W 4                               | omg      | 989.6                              | +3                           | 29                            | -8                                 | WNW 1                              | -             | bc                    | 2               | 4                    | 38                              | 27                            | comps                             | omr      | om, bc             | *                                   |                               |                                     |                     |               |                       |               |             |
| Nairn ...                                                               | 984.8                          | 37                            | W 2                               | c        | 990.4                              | *                            | 29                            | -4                                 | - 0                                | -             | bc                    | 1               | 5                    | 38                              | 28                            | ps bc                             | ps, bc   | ps, bc             | 0.7                                 |                               |                                     |                     |               |                       |               |             |
| Leith ...                                                               | 990.5                          | 39                            | W 2                               | c        | 991.3                              | +1                           | 38                            | -3                                 | W 2                                | W             | c                     | 2               | 2                    | 42                              | 34                            | sc bc                             | sc bc    | sc bc              | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Tynemouth ...                                                           | 990.6                          | 41                            | W 4                               | mg       | 992.2                              | *                            | 39                            | +3                                 | W 3                                | -             | b                     | 2               | 0.3                  | 44                              | 35                            | om                                | om       | bm, bc             | *                                   |                               |                                     |                     |               |                       |               |             |
| Spurn Head ...                                                          | 993.7                          | 44                            | W 3                               | om       | 995.7                              | 0                            | 41                            | +3                                 | WSW 6                              | -             | bq                    | 3               | 4                    | 46                              | 36                            | om                                | om       | bc                 | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Yarmouth (Gorleston)                                                    | 996.6                          | 44                            | WNW 2                             | bc       | 996.6                              | 0                            | 40                            | +1                                 | W 3                                | -             | bc                    | 3               | 4                    | 49                              | 38                            | omg                               | om, bc   | om, bc             | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Clacton-on-Sea                                                          | 998.9                          | 47                            | WNW 2                             | c        | 999.0                              | +2                           | 41                            | 0                                  | W 3                                | -             | bc                    | 2               | 5                    | 52                              | 40                            | ogmr                              | og, bc   | og, bc             | 0.0                                 |                               |                                     |                     |               |                       |               |             |
| Nottingham ...                                                          | 996.3                          | 45                            | W 4                               | c        | 997.8                              | *                            | 39                            | -1                                 | W 1                                | W             | c                     | *               | 1                    | 50                              | 38                            | opc                               | opc      | opc                | 0.0                                 |                               |                                     |                     |               |                       |               |             |

† Air Ministry Station.

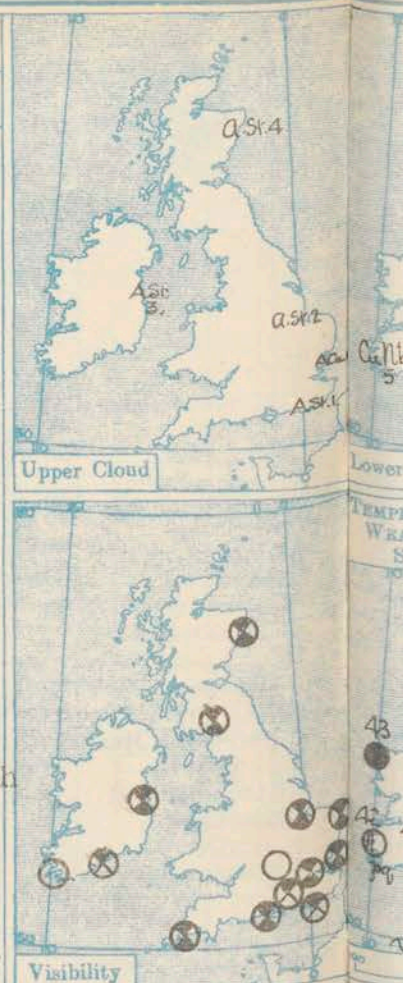
\* Information for these columns not usually received.

† The barometric change is expressed in half millibars. § Longitude † at 18.



# SUMMARY OF CONDITIONS AT 7 A.M. Wednesday, 24th December, 1919.

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.           | Visibility. | Sea.     |
|------------------------------|-----------------------------|--------------|---------------------------------------------|-------------|----------|
| 1. S.E. England              | SW-W 10-20.                 | Mod.         | Fine.                                       | Good        | Mod.     |
| 2. E. England                | W-NW 10-15.                 | "            | Fair or fine.                               | Fair.       | Slight   |
| 3. E. Midlands               | SW-W 5-15.                  | "            | Fine to cloudy.                             | Good        | "        |
| 4. W. Midlands               | W. 5-15.                    | "            | Fair or fine.                               | "           | "        |
| 5. S.W. England              | W. 15-20.                   | "            | Fair or fine.                               | Fair        | r.rough  |
| 6. South Wales               | W. 25-30                    | "            | Fair, squally.                              | Good        | "        |
| 7. North Wales               | W. 25-30.                   | "            | Fair, squally.                              | "           | "        |
| 8. N.W. England              | SW-W 10-20.                 | "            | Fair or cloudy.                             | Fair.       | "        |
| 9. N. Midlands               | W. 2-10.                    | "            | Fair or cloudy.                             | "           | "        |
| 10. N.E. England             | SW-W 10-25.                 | "            | Fine, local squalls.                        | "           | Slight   |
| 11. E. Scotland              | W NW 0-10.                  | r.cold.      | Fair to cloudy, local mist.                 | "           | Smooth.  |
| 12. S.W. Scotland            | SW-W 10.                    | "            | Variable sky; slight<br>sleet locally.      | "           | Slight   |
| 13. Isle of Man              | W. 10-20.                   | Mod.         | Fair or fine.                               | "           | Mod.     |
| 14. N.&N.W.Scot-<br>land     | W. 0-10.                    | Cold.        | Fair.                                       | "           | Smooth.  |
| 15. Hebrides                 | Calm?                       | "            | Fair or fine.                               | Good        | v.smooth |
| 16. Orkneys and<br>Shetlands | NW-N. 2.                    | "            | Fair, local mist.                           | Poor.       | Smooth   |
| 17. N.W. Ireland             | WSW 10-15.                  | Mod.         | Dull, some rain.                            | "           | Slight   |
| 18. N.E. Ireland             | SW-W 10.                    | r.cold.      | Fine to cloudy, local<br>showers            | "           | "        |
| 19. S.E. Ireland             | SW-W 5-15.                  | Mod.         | Fair to dull, local<br>squalls.             | Fair        | r.rough  |
| 20. S.W. Ireland             | WSW 10-20.                  | r.cold.      | Fair or fine, local<br>showers and squalls. | v.good.     | Mod.     |



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. K thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

GENERAL INFERENCE from observations received up to 9 a.m.

It seems probable that minor irregularities of pressure will continue to travel across the country from West to East and maintain mild unsettled weather with winds between S.W. and W.

| Districts.                | Forecasts for the 24 hours commencing 3 p.m. Wednesday, 24th December, 1919.                                                                                                                                      |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S.E. England           | Moderate or fresh South-Westerly or Westerly winds; stronger at times. Fair or cloudy, with fair to good visibility <sup>to-day</sup> , probably some drizzle or light rain tomorrow with low cloud. Rather mild. |
| 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 or moderate South-Westerly or Westerly breezes. Cloudy, low cloud; showers of rain or sleet. Moderate temperature.                                                                                          |
| 12. S.W. Scotland         |                                                                                                                                                                                                                   |
| 13. Isle of Man           |                                                                                                                                                                                                                   |
| 14. N.&N.W.Scot-land      |                                                                                                                                                                                                                   |
| 15. Hebrides              |                                                                                                                                                                                                                   |
| 16. Orkneys and Shetlands |                                                                                                                                                                                                                   |
| 17. N.W. Ireland          | Moderate or fresh South-Westerly or Westerly winds. Cloudy or dull, some drizzle or rain at times, perhaps improving by tomorrow. Mild.                                                                           |
| 18. N.E. Ireland          |                                                                                                                                                                                                                   |
| 19. S.E. Ireland          |                                                                                                                                                                                                                   |
| 20. S.W. Ireland          |                                                                                                                                                                                                                   |

Further Outlook.

Unsettled weather with winds from between S.W. and N.W.

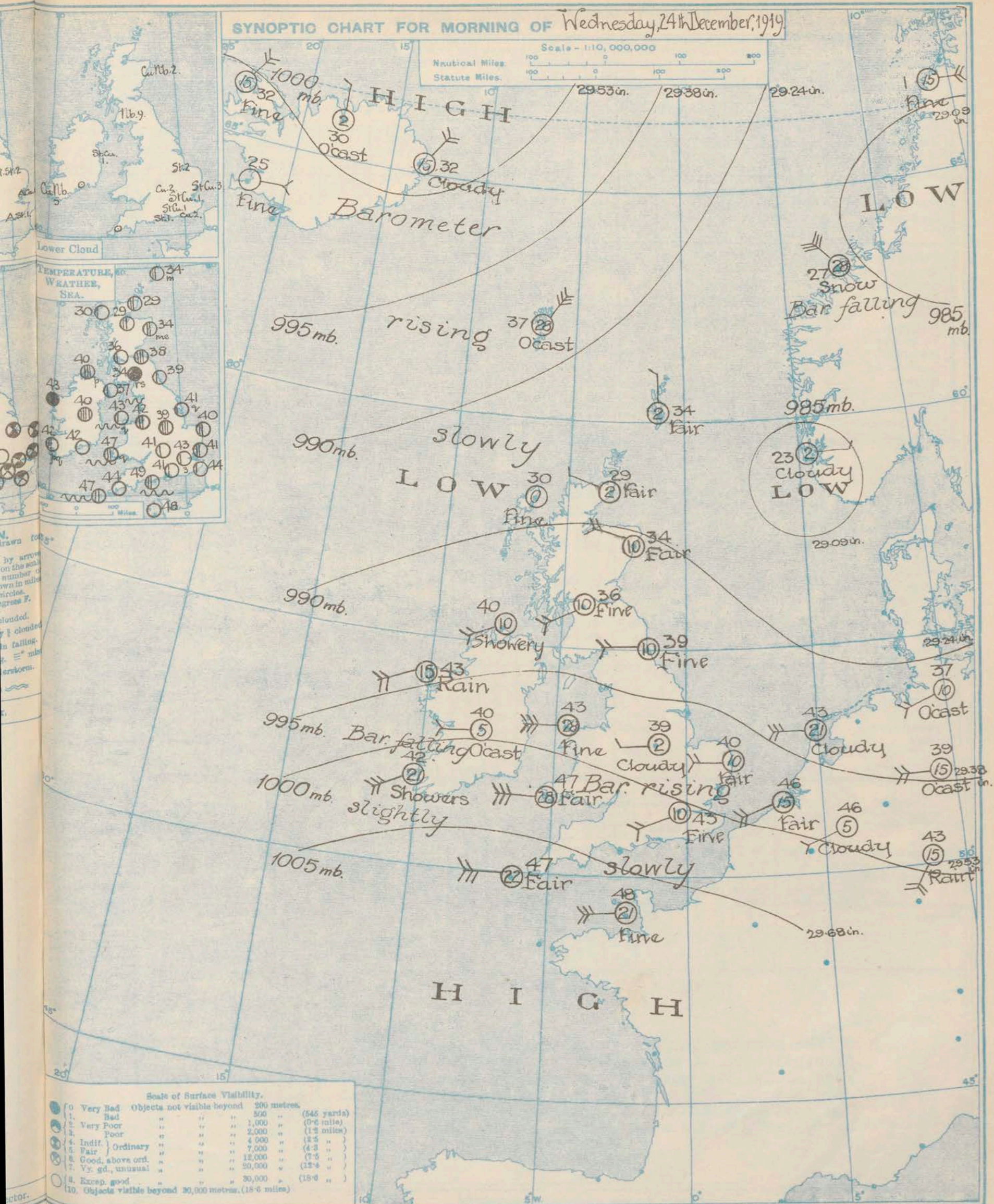


### SYNOPTIC CHART FOR MORNING OF

Wednesday, 24th December, 1919.

Scale - 1:10,000,000

Nautical Miles  
Statute Miles:



#### Scale of Surface Viability.

|    |                        |                            |              |             |
|----|------------------------|----------------------------|--------------|-------------|
| 0  | Very Bad               | Objects not visible beyond | 200 metres.  |             |
| 1  | Bad                    | "                          | 500 "        | (546 yards) |
| 2  | Very Poor              | "                          | 1,000 "      | (0-4 mile)  |
| 3  | Poor                   | "                          | 2,000 "      | (1-2 miles) |
| 4  | Indif. }               | Ordinary                   | 4,000 "      | (4-3 "      |
| 5  | Fair }                 | "                          | 7,000 "      | (7-5 "      |
| 6  | Good, above ord.       | "                          | 12,000 "     | (12-4 "     |
| 7  | Y. gd., unusual        | "                          | 20,000 "     | (18-0 "     |
| 8  | Except good            | "                          | 30,000 "     | (18-0 "     |
| 10 | Objects visible beyond | 30,000 metres.             | (18-5 miles) |             |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 358 B

WEDNESDAY  
24<sup>TH</sup> DECEMBER 1919

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR .....23 <sup>RD</sup> ..... |                      |           |            |              |              |                                                   |                                                |                                                           |                    |                      |        |            |              |              |                                                   |                                                |                                                           |           |  |
|-----------------------------------------------------------------------------------------------|----------------------|-----------|------------|--------------|--------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|--------------------|----------------------|--------|------------|--------------|--------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------|--|
| STATIONS.                                                                                     |                      | WEATHER.  |            | TEMPERATURE. |              | Rainfall.                                         |                                                | SUNSHINE.                                                 |                    | STATIONS.            |        | WEATHER.   |              | TEMPERATURE. |                                                   | Rainfall.                                      |                                                           | SUNSHINE. |  |
|                                                                                               |                      | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-24h.<br>.....22 <sup>ND</sup> ..... | Day.<br>0h-17h.<br>.....23 <sup>RD</sup> ..... | Sunrise<br>to Sun-<br>set.<br>.....23 <sup>RD</sup> ..... | Forenoon.          |                      |        | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-24h.<br>.....22 <sup>ND</sup> ..... | Day.<br>0h-17h.<br>.....23 <sup>RD</sup> ..... | Sunrise<br>to Sun-<br>set.<br>.....23 <sup>RD</sup> ..... |           |  |
| Scotland.                                                                                     | Oban ... ..          | o c       | bc p       | 45           | 35           | -                                                 | 0.3                                            | 0.1                                                       | England,<br>N.W.   | Douglas (I.O.M.)     |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               | Banff ... ..         | sc b      | bc b       | 39           | 31           | 0.2                                               | 1                                              | 2.4                                                       |                    | Blackpool ... ..     |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               | Montrose ... ..      |           |            |              |              |                                                   |                                                |                                                           |                    | Southport ... ..     | not    | o          | 45           | 38           | 13                                                | 0.1                                            |                                                           | 0.0       |  |
|                                                                                               | St. Andrews ... ..   |           |            |              |              |                                                   |                                                |                                                           |                    |                      |        |            |              |              |                                                   |                                                |                                                           |           |  |
| England, N.E.                                                                                 | Harrogate ... ..     | for       | c o        | 43           | 34           | -                                                 | 0.2                                            | 0.0                                                       | Midlands.          | Buxton ... ..        |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               | Skegness ... ..      |           |            |              |              |                                                   |                                                |                                                           |                    | Leamington Spa... .. |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               |                      |           |            |              |              |                                                   |                                                |                                                           |                    | Malvern ... ..       |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               |                      |           |            |              |              |                                                   |                                                |                                                           | Ross-on-Wye ... .. | op o c               | bc rco | 55         | 47           | 1            | Trace                                             |                                                | 2.6                                                       |           |  |
| England, E.                                                                                   | Felixstowe ... ..    | ogmr      | bc q       | 52           | 40           | 8                                                 | 1                                              | 0.0                                                       | Wales.             | Rhyl ... ..          | r      | o          | 47           | 42           | 22                                                | -                                              |                                                           | 0.0       |  |
|                                                                                               | Walton-on-Naze...    |           |            |              |              |                                                   |                                                |                                                           |                    | Colwyn Bay ... ..    |        |            | 47           | 43           | 26                                                | 1                                              |                                                           | 0.0       |  |
|                                                                                               | Southend-on-Sea...   | ot        | oto        | 51           | 37           | 7                                                 | 1                                              | 0.0                                                       |                    | Llandudno ... ..     | o      | op         | 50           | 43           | 21                                                | 0.3                                            |                                                           | 0.0       |  |
|                                                                                               | Lowestoft ... ..     | of        | otom       | 49           | 39           | 5                                                 | 1                                              | 0.0                                                       |                    | Aberystwyth ... ..   | ro     | ro         | 46           | 45           | 8                                                 | 8                                              |                                                           | 0.0       |  |
|                                                                                               |                      |           |            |              |              |                                                   |                                                |                                                           |                    |                      |        |            |              |              |                                                   |                                                |                                                           |           |  |
| England, S.E.                                                                                 | Margate ... ..       | bc        | c          | 54           | 39           | 12                                                | 1                                              | 0.0                                                       | England, S.W.      | Weymouth ... ..      | c odo  | bc b       | 53           | 48           | 0.3                                               | 0.4                                            |                                                           | 0.0       |  |
|                                                                                               | Ramsgate ... ..      | o         | o          | 52           | 40           | 11                                                | 2                                              | 0.0                                                       |                    | Teignmouth ... ..    |        |            |              |              |                                                   |                                                |                                                           |           |  |
|                                                                                               | Folkestone ... ..    | rod       | do         | 51           | 48           | 10                                                | 2                                              | 0.0                                                       |                    | Torquay ... ..       | o      | a c bc     | 54           | 46           | 0.1                                               | -                                              |                                                           | 0.5       |  |
|                                                                                               | Hastings ... ..      | ot        | o          | 51           | 47           | 3                                                 | 1                                              | 0.0                                                       |                    | Paignton ... ..      | opq    | obco       | 55           | 48           | Tr.                                               | Tr.                                            |                                                           | 0.0       |  |
|                                                                                               | Eastbourne ... ..    | odo       | o.c. bc    | 51           | 48           | 4                                                 | 0.1                                            | 0.0                                                       |                    | Penzance ... ..      | ode    | od         | 52           | 48           | 2                                                 | 1                                              |                                                           | 0.1       |  |
|                                                                                               | Brighton ... ..      | o         | o          | 49           | 45           | 4                                                 | 1                                              | 0.0                                                       |                    | Newquay ... ..       | ond    | ond        | 52           | 48           | 1                                                 | 1                                              |                                                           | 0.0       |  |
|                                                                                               | Worthing ... ..      | ot        | bc         | 50           | 43           | 2                                                 | 1                                              | 0.0                                                       |                    | Bude ... ..          | odr    | o          | 51           | 47           | 2                                                 | 2                                              |                                                           | 0.0       |  |
|                                                                                               | Littlehampton ... .. | bc        | bc         | 52           | 44           | 2                                                 | 2                                              | 1.0                                                       |                    | Ilfracombe ... ..    | odp    | o          | 52           | 44           | 0.3                                               | 1                                              |                                                           | 0.0       |  |
|                                                                                               | Bournemouth ... ..   | o         | o          | 53           | 40           | 1                                                 | -                                              | 0.0                                                       |                    | Weston-s-Mare ... .. | re     | bc         | 50           | 44           | 1                                                 | 1                                              |                                                           | 0.5       |  |
|                                                                                               | TUNBRIDGE WELLS.     | o         | o          | 53           | 43           | 3                                                 | 1                                              | 0.0                                                       |                    |                      |        |            |              |              |                                                   |                                                |                                                           |           |  |

| STATIONS.               | SUMMARIES FOR PAST 24 HOURS. |          |           |              |                |                 |                 |                    |           |                         | BEAUFORT NOTATION. |                                               |                                          |                                              |                          | THE BEAUFORT SCALE OF WIND FORCE. |        |          |         |              |         |                 |                    |            |         |                                         |         |            |                          |                       |        |               |                                            |                                                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                         | WEATHER                      |          |           |              |                | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass ° F. | RAINFALL. |                         | Sun. Hours.        | b blue sky (not more than a quarter covered). | bc sky partly cloudy (one half covered). | c generally cloudy (three quarters covered). | d drizzle, or fine rain. | e wet air without rain falling.   | f fog. | g gloom. | h hail. | i lightning. | m mist. | o overcast sky. | p passing showers. | q squalls. | r rain. | rs sleet, i.e., rain and snow together. | s snow. | t thunder. | u ugly, threatening sky. | v unusual visibility. | w dew. | x hoar frost. | y dry air; humidity less than 60 per cent. | z dust haze; the turbid atmosphere of dry weather. | Limits of Velocity. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                         | 7h-18h.                      | 18h-24h. | 24h-7h.   | Day. 7h-18h. | Night. 18h-7h. |                 |                 |                    | No.       | Statute miles per hour. |                    |                                               |                                          |                                              |                          |                                   |        |          |         |              |         |                 |                    |            |         |                                         |         |            |                          |                       |        |               |                                            |                                                    | Metres per second.  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| †Houton Bay (Orkney)... | ots m. adu                   | o.c.o.d. | bc.ch.bc. | becors       | 39             | 32              | 31              | 1                  | 7         | 0.0                     |                    |                                               |                                          |                                              |                          |                                   |        |          |         |              |         |                 |                    |            |         |                                         |         |            |                          |                       |        |               |                                            |                                                    |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                       |            |                   | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |          |        |         |  |
|--------------------------------|------------------------------------------------|------------|-------------------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|--------|---------|--|
|                                | Morning.                                       | Afternoon. | Night.            |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           | 24 <sup>TH</sup> & 25 <sup>TH</sup> DECEMBER 1919.                                                      |          |        |         |  |
|                                | 24 HOURS ENDED 9h G.M.T. .... 24 <sup>TH</sup> |            |                   |                       |                       |                           |                       |                                       | YESTERDAY.      | TO-DAY.        |                                                                                           |                                                                                                         |          |        |         |  |
| Greenwich (Royal Observatory)  | o. c. a. r.                                    | o. b.      | o. r. b.          | 54                    | 41                    | 34                        | Trace                 | 0.0                                   | 80              | 79             | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Stations.                                                                                               | Sunrise. | Noon.  | Sunset. |  |
| City (Bunhill Row) ... ..      | *                                              | *          | *                 | *                     | *                     | *                         | *                     | 0.0                                   | *               | *              |                                                                                           | G.M.T.                                                                                                  | G.M.T.   | G.M.T. |         |  |
| Westminster (St. James's Park) | *                                              | *          | *                 | 55                    | 43                    | 33                        | 0.2                   | 0.0                                   | 81              | 81             | Total ..... 99 ..... Joules.                                                              | Yarmouth ... {                                                                                          | 8.6      | 11.53  | 3.40    |  |
| (Admiralty Arch)               | o. r. m. q.                                    | o. m. q. o | b. c. q. o. m. b. | 55                    | 43                    | *                         | 0.1                   | 0.0                                   | 82              | 81             |                                                                                           | Greenwich {                                                                                             | 8.6      | 11.53  | 3.41    |  |
| Camden Sq. (British Rainfall)  | o. f. o                                        | c. b. o    | *                 | 54                    | 40                    | 35                        | *                     | *                                     | 70              | 84             | Average Rate. 3.5<br>Maximum Rate. 10                                                     | Wick ... {                                                                                              | 8.7      | 12.0   | 3.53    |  |
| Kensington Palace ... ..       | o                                              | o          | *                 | 55                    | 41                    | 37                        | 0.4                   | *                                     | 84              | 81             |                                                                                           | Valencia ... {                                                                                          | 9.5      | 12.12  | 3.19    |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |
|                                |                                                |            |                   |                       |                       |                           |                       |                                       |                 |                |                                                                                           |                                                                                                         |          |        |         |  |

## NOTES ON THE WEATHER OF YESTERDAY.

The morning was generally cloudy or dull with low cloud, and precipitation at most stations. At night there was considerably less cloud over most of England. In Scotland sleet or snow showers were common. Sunshine records were everywhere poor. Ross-on-Wye had most with 2.6 hours, most stations recorded no sunshine. In the morning winds were high in the Western Channel.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 24,217B THURSDAY, 25<sup>th</sup> DECEMBER 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 3H, 7H, 13H AND 18H. |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
|-------------------------------------------------------------------------|--------|--------|-------|-------|----------|------------|-------------|--------------|--------------|------------|-------|----------------------|----------|---------------------------------|--------|--------|----------|------------|---------|----------|-----------|-------------|---------|-------------------------------------|-------|--------------|-------|-----|-------|------|--------|--------|--|-------|--|--|
| STATIONS                                                                | BAROM. | Change | WIND. |       | Weather  | TEMP.      | HUMIDITY.   | Visibility.  | Height       | Low Cloud. |       | Upper Cloud.         |          | Sea                             | BAROM. | Change | WIND.    |            | Weather | TEMP.    | HUMIDITY. | Visibility. | Height  | Low Cloud.                          |       | Upper Cloud. |       | Sea |       |      |        |        |  |       |  |  |
|                                                                         | at     | in     | Dir.  | Force |          | °F.        | %           | 0-10.        | Feet.        | Form.      | Amt.  | Form.                | Amt.     |                                 | 0-9.   | at     | in       | Dir.       |         | Force    | °F.       | %           | 0-10.   | Feet.                               | Form. | Amt.         | Form. |     | Amt.  | 0-9. |        |        |  |       |  |  |
|                                                                         | M.S.L. | hours. |       | 0-12. |          |            |             |              |              |            | 0-10. |                      | 0-10.    |                                 |        | M.S.L. | hours.   |            |         | 0-12.    |           |             |         |                                     |       | 0-10.        |       |     | 0-10. |      | M.S.L. | hours. |  | 0-12. |  |  |
| 13H. G.M.T. 24 <sup>th</sup>                                            |        |        |       |       |          |            |             |              |              |            |       |                      |          | 18H. G.M.T. OF 24 <sup>th</sup> |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Houton B. (Orkney)                                                     | 994.1  | 0      | WSW   | 4     | C        | 37         | 87          | 6            | -            | C.Nb       | 6     | Ci                   | 1        | *                               | 993.9  | 0      | WSW      | 2          | 0       | 35       | 92        | 6           | -       | Nb                                  | 10    | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Eskdalemuir ...                                                        |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Stranraer ...                                                          |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Lough Foyle ...                                                        |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Valencia (Cahire'n)                                                    | 1000.6 | -2     | WSW   | 5     | bc       | 46         | 75          | 6            | 3-4000       | Cu         | 3     | C.Cu                 | 3        | 5                               | 993.9  | -2     | SW       | 5          | bcp     | 43       | 75        | 8           | 3-4000  | St Cu                               | 6     | -            | -     | 5   |       |      |        |        |  |       |  |  |
| †Anglesey (Llangefni)                                                   |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Falmouth ...                                                           | 1000.6 | -3     | WSW   | 6     | cg       | 48         | 82          | 6            | -            | C.Nb       | 5     | C.Cu                 | 2        | *                               | 1004.4 | -2     | WSW      | 6          | bcp     | 46       | 82        | 5           | -       | Cu Nb                               | 5     | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Calshot (Hants) ...                                                    | 1005.3 | -2     | W     | 5     | or       | 52         | 98          | 3            | 15-2000      | Nb         | 10    | -                    | -        | 4                               | 1003.8 | -2     | W        | 3          | C       | 45       | 92        | 3           | 15-2000 | St                                  | 7     | -            | -     | 3   |       |      |        |        |  |       |  |  |
| †Capel (Folkestone)                                                     | 1004.4 | +2     | W     | 4     | C        | 45         | 75          | 7            | 2-3000       | Ci         | 2     | C.St                 | 5        | *                               | 1003.2 | -2     | WSW      | 6          | C       | 44       | 92        | 6           | 2-3000  | St Cu                               | 7     | -            | -     | 5   |       |      |        |        |  |       |  |  |
| Aberdeen ...                                                            | 992.4  | 0      | W     | 1     | bcp      | 36         | 75          | 4            | -            | -          | -     | C.Cu                 | 4        | 2                               | 992.7  | 0      | W        | 2          | ?       | 32       | 92        | 3           | -       | St Cu                               | 2     | -            | -     | 2   |       |      |        |        |  |       |  |  |
| †East Fortune ...                                                       | 992.6  | 0      | WSW   | 3     | or       | 38         | 92          | 4            | 15-2000      | Nb         | 10    | -                    | -        | *                               | 991.8  | 0      | WSW      | 3          | 0       | 37       | 92        | 9           | 4-6000  | Nb                                  | 9     | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Flamboro Id.                                                           | 995.7  | 0      | WSW   | 5     | bc       | 43         | 75          | 7            | 4-5000       | Cu         | 3     | A.St                 | 2        | *                               | 995.1  | 0      | SW       | 4          | bc      | 37       | 92        | 6           | 15-2000 | St Cu                               | 3     | ac           | 3     | -   |       |      |        |        |  |       |  |  |
| †Felixstowe ...                                                         | 1001.3 | -1     | NW    | 4     | C        | 45         | 82          | 5            | 1-1500       | Cu         | 3     | F.Ci                 | 4        | 4                               | 1001.9 | -3     | W        | 4          | C       | 43       | 92        | 4           | 15-2000 | St                                  | 7     | -            | -     | 4   |       |      |        |        |  |       |  |  |
| †Cranwell (Lines)                                                       | 999.3  | -1     | WSW   | 4     | C        | 42         | 82          | 7            | 4-5000       | Cu         | 1     | C.St                 | 4        | *                               | 997.4  | -1     | SW       | 4          | b       | 39       | 82        | 5           | 2-3000  | St                                  | 2     | A.St         | 1     | *   |       |      |        |        |  |       |  |  |
| †Bedford ...                                                            |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Benson ...                                                              | 1002.2 | -2     | WSW   | 5     | C        | 46         | 75          | 8            | -            | -          | -     | -                    | -        | *                               | 1001.4 | -1     | WSW      | 3          | 0       | 40       | 92        | 8           | -       | -                                   | -     | -            | -     | *   |       |      |        |        |  |       |  |  |
| London (Kew Ob.)                                                        | 1001.6 | -2     | SW    | 5     | bcp      | 47         | 65          | 7            | 15-2000      | F.Cu       | 1     | A.Cu                 | 3        | *                               | 1001.8 | -2     | WSW      | 3          | b       | 44       | 92        | 3           | 2-3000  | St Cu                               | 3     | -            | -     | *   |       |      |        |        |  |       |  |  |
| 1H. G.M.T. OF 25 <sup>th</sup>                                          |        |        |       |       |          |            |             |              |              |            |       |                      |          | 7H. G.M.T. OF 25 <sup>th</sup>  |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Houton B. (Orkney)                                                     |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 | 995.4  | +2     | ESE      | 1          | OX      | 33       | 87        | 6           | -       | St                                  | 10    | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Eskdalemuir ...                                                        |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Stranraer ...                                                          |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Lough Foyle ...                                                        |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Valencia (Cahire'n)                                                    | 1010.6 | +2     | WNW   | 8     | omg      | 42         | *           | *            | *            | *          | *     | *                    | *        | *                               | 1002.8 | +4     | W        | 6          | bcp     | 46       | 75        | 7           | -       | Cu                                  | 7     | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Anglesey (Llangefni)                                                   |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Falmouth ...                                                           |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 | 1003.1 | 0      | W        | 7          | og      | 45       | 75        | 2           | -       | St                                  | 10    | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Calshot (Hants) ...                                                    |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Capel (Folkestone)                                                     |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| §Aberdeen ...                                                           |        |        |       |       |          |            |             |              |              |            |       |                      |          | *                               | 996.4  | +3     | W        | 1          | bz      | 29       | 92        | 4           | -       | -                                   | -     | -            | -     | 2   |       |      |        |        |  |       |  |  |
| †East Fortune ...                                                       |        |        |       |       |          |            |             |              |              |            |       |                      |          | *                               |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| †Flamboro Id.                                                           |        |        |       |       |          |            |             |              |              |            |       |                      |          | *                               | 999.5  | -1     | WSW      | 5          | C       | 39       | 98        | 7           | 1-1500  | Nb                                  | 8     | -            | -     | *   |       |      |        |        |  |       |  |  |
| †Felixstowe ...                                                         | 999.9  | -2     | NW    | 4     | b        | 42         | 92          | 4            | 1-1500       | St         | 3     | -                    | -        | 4                               | 999.9  | -2     | WNW      | 3          | bc      | 38       | 98        | 4           | 1-1000  | St                                  | 4     | -            | -     | 3   |       |      |        |        |  |       |  |  |
| †Cranwell (Lines)                                                       |        |        |       |       |          |            |             |              |              |            |       |                      |          | *                               | 994.6  | -1     | WSW      | 4          | C       | 36       | 98        | 8           | 2-3000  | St Cu                               | 6     | A.St         | 2     | *   |       |      |        |        |  |       |  |  |
| †Bedford ...                                                            |        |        |       |       |          |            |             |              |              |            |       |                      |          | *                               |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Benson ...                                                              | *      | *      | *     | *     | *        | *          | *           | *            | *            | *          | *     | *                    | *        | *                               | 997.4  | -1     | WSW      | 2          | bc      | 38       | 98        | 6           | -       | -                                   | -     | -            | -     | *   |       |      |        |        |  |       |  |  |
| London ...                                                              | *      | *      | *     | *     | *        | *          | *           | *            | *            | *          | *     | *                    | *        | *                               | 997.7  | -2     | W        | 3          | b       | 40       | 87        | 4           | 2-3000  | St Cu                               | 2     | A.Cu         | 1     | *   |       |      |        |        |  |       |  |  |
| (M.O. at 1st.)                                                          |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.                            |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| STATIONS.                                                               | BAROM. | TEMP.  | WIND. |       | Weather. | BAROMETER. |             | TEMPERATURE. |              | WIND.      |       | Dir. of Upper Cloud. | Weather. | Sea                             | TEMP.  |        | WEATHER. |            |         | Sunshine |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
|                                                                         | at     | °F.    | Dir.  | Force |          | at         | Change      | Temp.        | Change       | Dir.       | Force |                      |          |                                 | Max.   | Min.   | Morning. | Afternoon. | Night.  |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
|                                                                         | M.S.L. |        |       | 0-12. |          | M.S.L.     | in 3 hours. | °F.          | in 24 hours. |            | 0-12. |                      |          |                                 | F.     | F.     |          |            |         | Hours.   |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| 18H. G.M.T. OF 24 <sup>th</sup>                                         |        |        |       |       |          |            |             |              |              |            |       |                      |          | 7H. G.M.T. OF 25 <sup>th</sup>  |        |        |          |            |         |          |           |             |         | 24 HOURS ENDED 7H. 25 <sup>th</sup> |       |              |       |     |       |      |        |        |  |       |  |  |
| Lerwick ...                                                             | 994.1  | 34     | N     | 2     | bc       | 996.1      | 0           | 34           | 0            | N          | 2     | -                    | bcm s    | 2                               | 0.4    | 39     | 32       | bcm        | bcs     | cs       | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Stornoway ...                                                           | 992.5  | 36     | -     | 0     | bc       | 998.8      | +3          | 33           | +3           | -          | 0     | -                    | b        | 0                               | 2      | 36     | 30       | b.bcp      | bcp     | bcb      | 0.2       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Castlebay (Barras)                                                      |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Glasgow ...                                                             | 993.7  | 35     | WSW   | 2     | bz       | 997.0      | +5          | 33           | -3           | NE         | 2     | -                    | CZ       | *                               | 6      | 36     | 33       | or sp      | or sp c | bcz sp   | 0.0       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Malin Head ...                                                          | 991.5  | 40     | SSW   | 2     | cp       | 993.8      | +3          | 38           | -2           | E          | 1     | C                    | bc       | 3                               | 4      | 45     | 35       | C          | C       | bcc      | 2.1       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Blacksod Point                                                          | 991.4  | 41     | W     | 3     | bcp      | 995.1      | +5          | 45           | +2           | W          | 3     | -                    | cm       | 3                               | 8      | 47     | 36       | bcp        | bcp     | omrem    | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Roche's Point...                                                        | 1000.1 | 42     | W     | 3     | b        | 1000.3     | +1          | 43           | +1           | W          | 2     | -                    | C        | 3                               | 3      | 47     | 41       | b.b.c      | cp b    | cp       | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Birr Castle ...                                                         |        |        |       |       |          |            |             |              |              |            |       |                      |          |                                 |        |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Donaghadee ...                                                          | 995.4  | 36     | W     | 2     | bcm      | 994.7      | +2          | 37           | 0            | WSW        | 1     | -                    | omp      | *                               | 1      | 43     | 37       | bc         | bcm     | cmd      | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Liverpool (Bidston)                                                     | 996.7  | 41     | WSW   | 4     | 0        | 993.4      | -1          | 38           | -4           | WSW        | 4     | -                    | r        | 3                               | 1      | 48     | 38       | C          | 0       | bop      | 3.1       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Holyhead ...                                                            | 996.7  | 44     | WSW   | 5     | cg       | 993.3      | -1          | 43           | 0            | W          | 5     | W                    | cp h     | 4                               | 1      | 44     | 41       | b.b.c      | bc.cu   | bicph    | 2.05      |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Pembroke (St. Ann's Head)                                               | 999.5  | 45     | W     | 6     | bcp      | 996.7      | +1          | 45           | -2           | WSW        | 6     | -                    | gop      | 6                               | 3      | 47     | 43       | bc.cq      | c.bcp   | eqp      | 1.3       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Scilly (St. Mary's)                                                     | 1005.8 | 47     | W     | 5     | bc       | 1005.2     | 0           | 43           | -4           | WNW        | 8     | NW                   | cp q     | 7                               | 5      | 50     | 43       | bc         | c.bc    | bcp gc   | 2.9       |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Jersey (St. Aubin)                                                      | 1008.1 | 49     | SW    | 5     | b        | 1005.4     | 0           | 48           | 0            | W          | 6     | -                    | b        | 4                               | 3      | 51     | 43       | b.b.c      | b.b.c   | bq pb    | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Portland Bill ...                                                       | 1003.2 | 47     | W     | 5     | bcp      | 1000.6     | 0           | 47           | -2           | W          | 8     | -                    | og       | 6                               | 4      | 49     | 43       | bc         | bcp l.  | og       | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Dunghenness ...                                                         | 1001.7 | 46     | WSW   | 6     | b        | 998.3      | *           | 42           | -2           | WSW        | 4     | -                    | bc       | 4                               | 1      | 47     | 41       | cpe        | cpe     | bcp c    | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Wick ...                                                                | 992.4  | 29     | WNW   | 1     | bc       | 996.9      | +2          | 27           | -2           | W          | 1     | -                    | bcm      | 2                               | -      | 32     | 25       | bcm        | bcm     | bcm      | *         |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |
| Nairn ...                                                               | 993.0  | 30     | -     | 0     | 0        | 998.0      |             | 28           | -1           | -          | 0     | -                    | bc       | 1                               | 1      |        |          |            |         |          |           |             |         |                                     |       |              |       |     |       |      |        |        |  |       |  |  |

\* Air Ministry Station.

\* Information for these columns not usually received.

\* The barometrical change is expressed in half millibars.

\* Longside † at 1st.



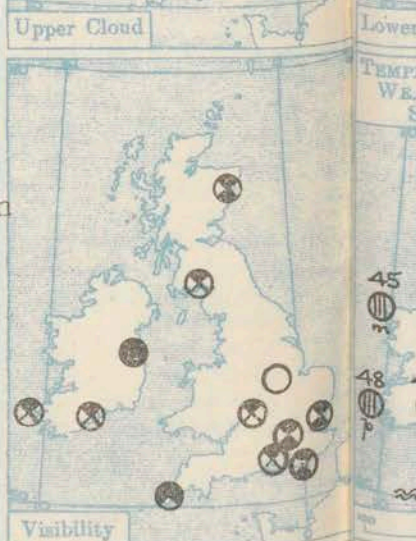
# SUMMARY OF CONDITIONS AT 7 A.M. Thursday, 25th December, 1919.

| Districts.                | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation. | Visibility. | Sea.      |
|---------------------------|-----------------------------|--------------|-----------------------------------|-------------|-----------|
| 1. S.E. England           | W. 10-15                    | Moderate     | Fair to fine                      | Moderate    | Smooth    |
| 2. E. England             | W. 5-10                     | "            | Fair to cloudy                    | "           | "         |
| 3. E. Midlands            | W. 5-10                     | R. cold      | Fair to cloudy                    | V. good     | -         |
| 4. W. Midlands            | W. 5-10                     | "            | Cloudy                            | good        | -         |
| 5. S.W. England           | W. 40-45                    | Moderate     | Cloudy to dull, squally           | poor        | rough     |
| 6. South Wales            | W.S.W. 20-25                | "            | Dull, squally                     | "           | R. rough  |
| 7. North Wales            | W. 20-25                    | "            | Cloudy, rainy                     | "           | Moderate  |
| 8. N.W. England           | W. 15-20                    | "            | Dull, some rain                   | "           | "         |
| 9. N. Midlands            | SW. 2-5                     | R. cold      | Dull                              | "           | -         |
| 10. N.E. England          | W. 2-5                      | "            | Dull, some mist and rain          | "           | smooth    |
| 11. E. Scotland           | N.E. 2-5                    | "            | Fair to cloudy                    | Moderate    | "         |
| 12. S.W. Scotland         | N.E.-S.E.                   | "            | Cloudy to dull                    | good        | v. smooth |
| 13. Isle of Man           | W. 10-15                    | "            | Dull                              | Moderate    | smooth    |
| 14. N. & N.W. Scotland    | W. 0-2                      | cold.        | Fair                              | "           | -         |
| 15. Hebrides              | Calm                        | R. cold      | Fair to fine                      | "           | v. smooth |
| 16. Orkneys and Shetlands | N. 0-2                      | "            | Fair, some mist                   | poor        | smooth    |
| 17. N.W. Ireland          | W. 2-5                      | Moderate     | Fair to cloudy                    | moderate    | mod.      |
| 18. N.E. Ireland          | W. 0-2                      | R. cold      | Dull                              | "           | v. smooth |
| 19. S.E. Ireland          | -                           | -            | -                                 | -           | -         |
| 20. S.W. Ireland          | W. 20-25                    | Moderate     | Dull, some squalls                | good        | mod.      |

## GENERAL INFERENCE from observations received up to 9 a.m.

The elongated depression over the British Isles appears to be moving slowly East-South-East and decreasing in intensity. The weather seems likely to be showery generally and frosty in Scotland.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrow pointing in the direction the wind is blowing from. 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊖ overcast sky. ⊖ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

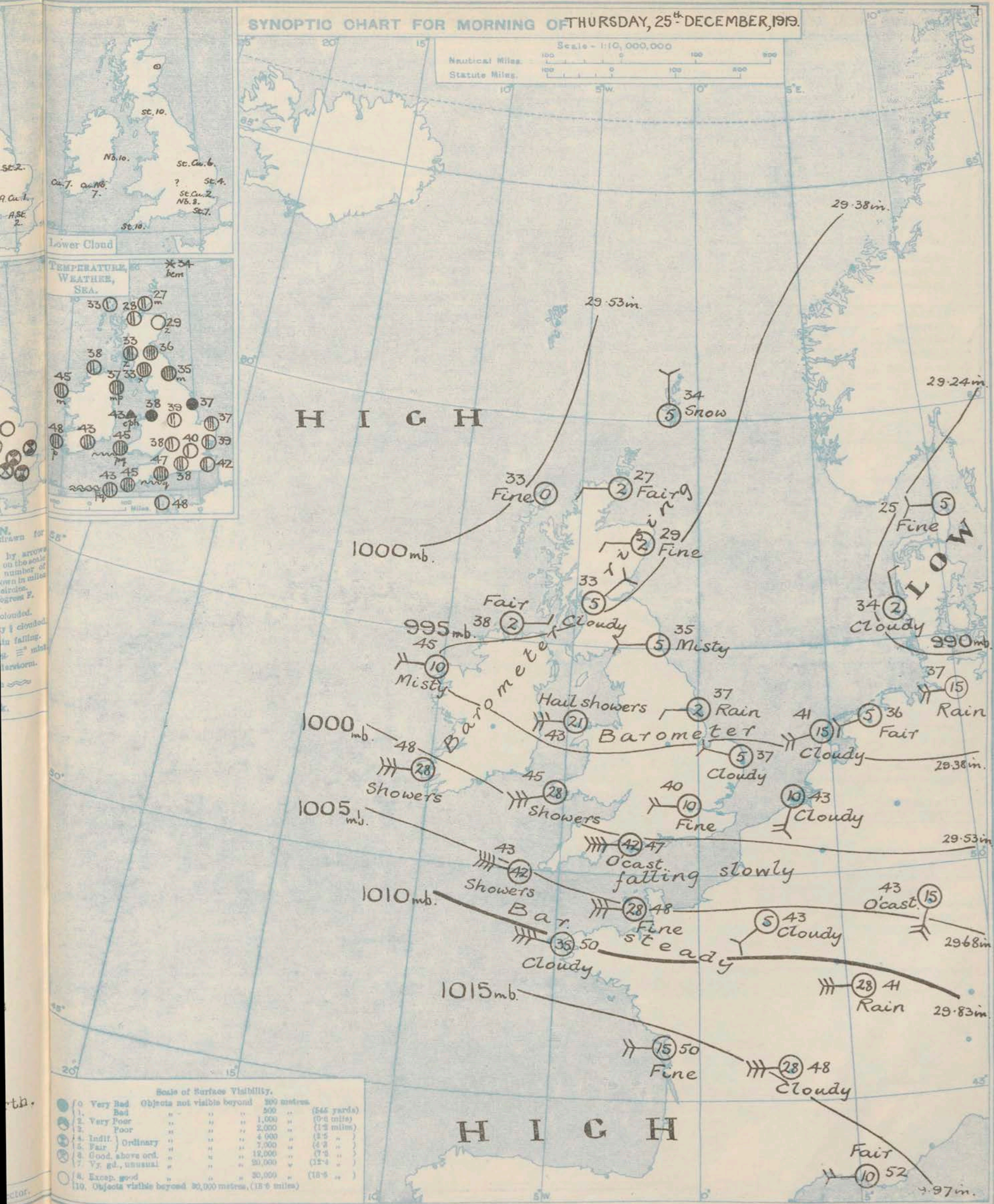


| Districts.                | Forecasts for the 24 hours commencing 3 p.m. 25th December, 1919                                                             |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1. S.E. England           | Wind between West and North-West, light or moderate, stronger locally; cloudy, some rain or sleet showers; rather cold.      |
| 2. E. England             |                                                                                                                              |
| 3. E. Midlands            |                                                                                                                              |
| 4. W. Midlands            |                                                                                                                              |
| 5. S.W. England           | Wind between West and North-West, strong or high, moderating later; cloudy, some rain or hail showers; moderate temperature. |
| 6. South Wales            |                                                                                                                              |
| 7. North Wales            |                                                                                                                              |
| 8. N.W. England           | Light or moderate wind between West and North; some rain, sleet or snow, improving later; cold.                              |
| 9. N. Midlands            |                                                                                                                              |
| 10. N.E. England          |                                                                                                                              |
| 11. E. Scotland           | Light breezes, mainly between North-west and North-East; mostly fair or fine, some local snow showers; cold and frosty       |
| 12. S.W. Scotland         |                                                                                                                              |
| 13. Isle of Man           |                                                                                                                              |
| 14. N. & N.W. Scotland    |                                                                                                                              |
| 15. Hebrides              |                                                                                                                              |
| 16. Orkneys and Shetlands |                                                                                                                              |
| 17. N.W. Ireland          | Light or moderate variable or North-Westerly winds; fine to cloudy, some rain or sleet showers; rather cold                  |
| 18. N.E. Ireland          |                                                                                                                              |
| 19. S.E. Ireland          | Wind West to North-west, moderate to strong; cloudy, some showers; moderate temperature.                                     |
| 20. S.W. Ireland          |                                                                                                                              |

Weather is likely to remain unsettled and rather cold, with winds mainly between West and North.



## 7





# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 359B

THURSDAY  
25<sup>th</sup> December

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 24 <sup>TH</sup> |                    |           |            |              |              |                    |                  |                            |               |                   |           |            |              |              |                    |                  |                            |           |  |
|------------------------------------------------------------------------------------|--------------------|-----------|------------|--------------|--------------|--------------------|------------------|----------------------------|---------------|-------------------|-----------|------------|--------------|--------------|--------------------|------------------|----------------------------|-----------|--|
| STATIONS.                                                                          |                    | WEATHER.  |            | TEMPERATURE. |              | Rainfall.          |                  | SUNSHINE.                  |               | STATIONS.         |           | WEATHER.   |              | TEMPERATURE. |                    | Rainfall.        |                            | SUNSHINE. |  |
|                                                                                    |                    | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-12h. | Day.<br>12h-12h. | Sunrise<br>to Sun-<br>set. | Forenoon.     |                   |           | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-12h. | Day.<br>12h-12h. | Sunrise<br>to Sun-<br>set. |           |  |
| Scotland.                                                                          | Oban ...           | or.       | o.c        | 48           | 44           | 4                  | 0.4              | 0.0                        | England, N.W. | Douglas (I.O.M.)  | orp       | hc.        | 45           | 41           | 2                  | 1                | 0.8                        |           |  |
|                                                                                    | Banff ...          | c.b.c.b   | b.b.c.b    | 34           | 26           | 2                  | -                | 2.4                        |               | Blackpool ...     | orp       | hc.        | 45           | 41           | 1                  | 1                | 2.2                        |           |  |
|                                                                                    | Montrose ...       | m         | m          | 36           | 30           | -                  | -                | 0.0                        |               | Southport ...     | orp       | hc.        | 45           | 41           | 1                  | 1                | 2.2                        |           |  |
|                                                                                    | St. Andrews ...    | m         | m          | 36           | 30           | -                  | -                | 0.0                        |               |                   |           |            |              |              |                    |                  |                            |           |  |
| England, N.E.                                                                      | Harrogate ...      | b.bep     | b.b.c.p    | 40           | 36           | 2                  | 1                | 3.2                        | Midlands.     | Buxton ...        | b.        | b.         | 46           | 41           | -                  | -                | 3.9                        |           |  |
|                                                                                    | Skegness ...       |           |            |              |              |                    |                  |                            |               | Leamington Spa... | b.        | b.         | 46           | 41           | -                  | -                | 3.9                        |           |  |
|                                                                                    |                    |           |            |              |              |                    |                  |                            |               | Malvern ...       | b.b.c.o.c | orp        | 48           | 39           | -                  | 0.1              | 3.8                        |           |  |
|                                                                                    |                    |           |            |              |              |                    |                  |                            |               | Ross-on-Wye ...   | b.b.c.o.c | orp        | 48           | 39           | -                  | 0.1              | 3.8                        |           |  |
| England, E.                                                                        | Felixstowe ...     | bcy       | bcy        | 45           | 42           | 1                  | -                | 4.7                        | Wales         | Rhyl ...          | or        | b.b.c      |              |              |                    |                  |                            |           |  |
|                                                                                    | Walton-on-Naze...  |           |            |              |              |                    |                  |                            |               | Colwyn Bay ...    | c.b       | c          | 46           | 41           | 0.3                | -                | 0.4                        |           |  |
|                                                                                    | Southend-on-Sea... |           |            |              |              |                    |                  |                            |               | Llandudno ...     | c.b       | c          | 46           | 41           | 0.3                | -                | 0.4                        |           |  |
|                                                                                    |                    |           |            |              |              |                    |                  |                            |               | Aberystwyth ...   | ro.o      | c.c.o      | 45           | 43           | -                  | -                | 0.5                        |           |  |
| England, S.E.                                                                      | Margate ...        | bc        | bc         | 47           | 43           | -                  | -                | 2.4                        | England, S.W. | Weymouth ...      | b.b.c     | c.p.c      | 52           | 44           | 2                  | 0.2              | 0.2                        |           |  |
|                                                                                    | Ramsgate ...       | o         | bc         | -            | -            | -                  | -                | 4.5                        |               | Teignmouth ...    |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Folkestone ...     | bc.b      | bc.o       | 48           | 42           | -                  | -                | 4.9                        |               | Torquay ...       |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Hastings ...       | b.b.c     | bc.p.b     | 48           | 42           | -                  | -                | 4.8                        |               | Paignton ...      | b.c.p.y   | b.c.p      | 50           | 42           | 1                  | 3                | 2.1                        |           |  |
|                                                                                    | Eastbourne...      | b.c.b     | b          | 49           | 42           | -                  | 4                |                            |               | Penzance ...      |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Brighton ...       |           |            |              |              |                    |                  |                            |               | Newquay ...       |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Worthing ...       |           |            |              |              |                    |                  |                            |               | Bude ...          | o.c.p.k   | bc.c       | 50           | 43           | 1                  | 2                | 2.0                        |           |  |
|                                                                                    | Littlehampton ...  | bc        | p.c.b      | 50           | 45           | -                  | -                | 4.6                        |               | Ilfracombe ...    |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Bournemouth ...    | b         | b          | 50           | 41           | 0.2                | 0.2              | 3.6                        |               | Weston-s-Mare ... |           |            |              |              |                    |                  |                            |           |  |
|                                                                                    | Tonbridge Wells    | b.        | bc.b       | 48           | 41           | -                  | -                | 3.9                        |               |                   |           |            |              |              |                    |                  |                            |           |  |

| STATIONS.                                     | SUMMARIES FOR PAST 24 HOURS. |            |          |           |              |                 |                 |                     |                | BEAUFORT NOTATION.<br>b blue sky (not more than a quarter covered).<br>bc sky partly cloudy (one half covered).<br>c generally cloudy (three quarters covered).<br>d drizzle, or fine rain.<br>e wet air without rain falling.<br>f fog. g gloom.<br>h hail. i lightning.<br>m mist.<br>o overcast sky.<br>p passing showers.<br>q squalls.<br>r rain.<br>rs sleet, i.e., rain and snow together.<br>s snow.<br>t thunder.<br>u ugly, threatening sky.<br>v unusual visibility.<br>w dew.<br>x hoar frost.<br>y dry air; humidity less than 60 per cent.<br>z dust haze; the turbid atmosphere of dry weather. | THE BEAUFORT SCALE OF WIND FORCE. |     |                         |                    |  |
|-----------------------------------------------|------------------------------|------------|----------|-----------|--------------|-----------------|-----------------|---------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|-------------------------|--------------------|--|
|                                               | WEATHER                      |            |          |           |              | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass. ° F. | RAINFALL.      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sun. Hours.                       | No. | Limits of Velocity.     |                    |  |
|                                               | 7h-13h.                      | 13h-18h.   | 18h-24h. | 1h-7h.    | Day. 7h-18h. |                 |                 |                     | Night. 18h-7h. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |     | Statute miles per hour. | Metres per second. |  |
| †Houton Bay (Orkney)...<br>Eskdalemuir ... .. | orsmoe                       | c. oclmco. |          | b.coro    | 38           | 28              | 24              | 2                   | 2              | 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | 0   | Less than 1             | Less than 0.3      |  |
| †Stranraer ... ..                             |                              |            |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 1   | 1-3                     | 0.3-1.5            |  |
| †Lough Foyle ... ..                           |                              |            |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 2   | 4-7                     | 1.6-3.3            |  |
| Valencia (Cahirciveen) ...                    | cq.ph                        | cq.ph.     |          | b.c.p.    | 48           | 41              | 40              | 2                   | 2              | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | 3   | 8-12                    | 3.4-5.4            |  |
| †Anglesey (Llangefni) ...                     |                              |            |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 4   | 13-18                   | 5.5-7.9            |  |
| Falmouth ... ..                               | bc.pq                        | bcq        |          | cp.pq     | 49           | 41              | 38              | 2                   | 2              | 1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | 5   | 19-24                   | 8.0-10.7           |  |
| †Calshot (Hants) ... ..                       | c.o                          | pi         |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 6   | 25-31                   | 10.8-13.8          |  |
| †Capel (Folkestone) ... ..                    | v                            | bc.cv.     |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 7   | 32-38                   | 13.9-17.1          |  |
| Aberdeen ... ..                               | bombz                        | bcz.bz     |          | b.z.s.p.b | 36           | 28              | 25              | -                   | Trace          | 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | 8   | 39-46                   | 17.2-20.7          |  |
| †East Fortune ... ..                          | co.d.                        | om.pd.     |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 9   | 47-54                   | 20.8-24.4          |  |
| †Flamborough Head ... ..                      | b.b.c                        | b.b.b.c    |          | b.o.s     | 47           | 37              | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 10  | 55-63                   | 24.5-28.4          |  |
| †Felixstowe ... ..                            | b.cq                         | bc.cq.     | b.b.cq   | b.cq.     | 45           | 38              | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 11  | 64-75                   | 28.5-33.5          |  |
| †Cranwell (Lines) ... ..                      | b.b.c                        | pd.c.o     |          | b.c.o     | 42           | 33              | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | 12  | Above 75                | 33.6 or above      |  |
| †Bedford ... ..                               |                              |            |          |           |              |                 | *               | *                   | *              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |     |                         |                    |  |
| Benson ... ..                                 | bc.                          | bc.        |          | bc        | 47           | 36              | 33              | -                   | 1              | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |     |                         |                    |  |
| London (Kew Obsy.) ... ..                     | bz.bz                        | pc.c.opb   |          | o.p.c.b.c | 47           | 39              | 32              | 0.3                 | 0.2            | 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |     |                         |                    |  |

| LONDON OBSERVATIONS.           |       |          |            |              |          |           |                    |                |                             | SOUTH KENSINGTON (Meteorological Office).                                     |    | TABLE SHOWING THE GREENWICH TIMES OF SUNRISE, NOON AND SUNSET FOR STATIONS IN THE UNITED KINGDOM. |  |  |
|--------------------------------|-------|----------|------------|--------------|----------|-----------|--------------------|----------------|-----------------------------|-------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------|--|--|
| STATIONS.                      |       | WEATHER. |            | TEMPERATURE. |          | RAINFALL. |                    | SUNSHINE.      |                             | Vertical Component of Solar Radiation per Square Centimetre during yesterday. |    | 25 <sup>th</sup> & 26 <sup>th</sup> December 1919.                                                |  |  |
|                                |       | Morning. | Afternoon. | Night.       | Max. °F. | Min. °F.  | Min. on Grass. °F. | Rain-fall. mm. | Sun-shine to Sunset. Hours. |                                                                               |    |                                                                                                   |  |  |
| 24 HOURS ENDED 9H G.M.T.       |       |          |            |              |          |           |                    |                |                             | YESTERDAY.                                                                    |    | TO-DAY.                                                                                           |  |  |
| Greenwich (Royal Observatory)  | bc.c  | c.o.c.p  | ro.c.p     | 46           | 38       | 31        | Trace              | 3.2            | 72                          | 72                                                                            | 72 |                                                                                                   |  |  |
| City (Bunhill Row) ...         | *     | *        | *          | *            | *        | *         | *                  | *              | *                           | *                                                                             | *  |                                                                                                   |  |  |
| Westminster (St. James's Park) | *     | *        | *          | *            | *        | *         | *                  | *              | *                           | *                                                                             | *  |                                                                                                   |  |  |
| Admiralty Arch                 | bm.om | cm       | *          | 48           | 39       | *         | 0.2                | 1.2            | 80                          | 88                                                                            | 88 |                                                                                                   |  |  |
| Camden Sq. (British Rainfall)  | b.b.c | bc       | *          | 47           | 38       | 30        | 1                  | *              | 77                          | 89                                                                            | 89 |                                                                                                   |  |  |
| Kensington Palace ...          | b.b.c | o        | *          | 49           | 37       | 34        | 0.3                | *              | 84                          | 88                                                                            | 88 |                                                                                                   |  |  |
|                                |       |          |            |              |          |           |                    |                |                             | Total ... 217 Joules.                                                         |    |                                                                                                   |  |  |
|                                |       |          |            |              |          |           |                    |                |                             | Average Rate. 7.8                                                             |    |                                                                                                   |  |  |
|                                |       |          |            |              |          |           |                    |                |                             | Maximum Rate. 15                                                              |    |                                                                                                   |  |  |

## NOTES ON THE WEATHER OF YESTERDAY.

Showers were experienced in many places, with sleet or snow locally in Scotland. Lightning was seen at Holyhead, Portland and Dungeness. Temperature reached 50° locally in South-West England, but in Scotland it remained below 40° and frost was experienced at night. At Wick the minimum was 25°, and the maximum 32°. Good sunshine records were made in South-East England, nearly 5 hours in places.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No. 21218 B FRIDAY, 26<sup>TH</sup> DECEMBER, 1919.

| STATIONS                                     | OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1h, 7h, 13h AND 19h. |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
|----------------------------------------------|-------------------------------------------------------------------------|-------------------------------|--------|----------------|----------|----------------------|-------------------------------|----------------------|-------------------------------------|------------|----------------|------------------------------|-------------------------------------|-------------------------------|-----------------|------------------------------------|-------------|--------------|----------------|----------------------|-------------------------------------|---------------|--------------|-------|------|-----------------------------------------|---|
|                                              | BAROM.<br>at<br>M.S.L.<br>m.b.                                          | †<br>Change<br>in 3<br>hours. | WIND.  |                | Weather. | TEMP.<br>°F.         | HUMIDITY.<br>%                | VISIBILITY.<br>0-10. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud. | Upper Cloud.   | Sea                          | BAROM.<br>at<br>M.S.L.<br>m.b.      | †<br>Change<br>in 3<br>hours. | WIND.           |                                    | Weather.    | TEMP.<br>°F. | HUMIDITY.<br>% | VISIBILITY.<br>0-10. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud.    | Upper Cloud. | Sea   |      |                                         |   |
|                                              |                                                                         |                               | Direc. | Force<br>0-12. |          |                      |                               |                      |                                     | Form.      | Amt.<br>0-10.  | 0-9.                         |                                     |                               | Direc.          | Force<br>0-12.                     |             |              |                |                      | Form.                               | Amt.<br>0-10. | 0-9.         |       |      |                                         |   |
|                                              |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
| 13h. G.M.T. ... 25 <sup>th</sup>             |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | 19h. G.M.T. OF ... 25 <sup>th</sup> |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
| †Houton B. (Orkney)                          | 1001.7                                                                  | +6                            | N      | 4              | bc       | 33                   | 82                            | 7                    | -                                   | Cu         | 4              | -                            | *                                   | 1008.4                        | +6              | -                                  | 0           | b            | 27             | 75                   | 7                                   | -             | -            | -     | -    | *                                       |   |
| †Eskdalemuir ...                             |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Stranraer ...                               |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Lough Foyle ...                             |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Valencia (Cahire'n)                         | 1009.6                                                                  | +5                            | WNW    | 5              | C        | 48                   | 75                            | 10                   | 2-3000                              | Cu         | 7              | -                            | 5                                   | 1014.0                        | +6              | WNW                                | 4           | bc           | 47             | 75                   | 8                                   | 2-3000        | Cu           | 5     | -    | 4                                       |   |
| †Anglesey (Llangefni)                        |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Falmouth ...                                | 1005.1                                                                  | +2                            | WNW    | 7              | cpq      | 47                   | 75                            | 7                    | -                                   | Cu-Nb      | 7              | -                            | *                                   | 1011.9                        | +8              | NW                                 | 5           | bcq          | 45             | 75                   | 7                                   | -             | Cu-Nb        | 4     | -    | *                                       |   |
| †Calshot (Hants) ...                         |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   | 1017.0                        | +4              | NW                                 | 5           | b            | 41             | 92                   | 4                                   | -             | -            | -     | -    | 3                                       |   |
| †Capel (Folkestone)                          | 997.4                                                                   | -2                            | W      | 4              | C        | 41                   | 92                            | 7                    | 1½-2000                             | St-Cu      | 5              | A-St                         | 3                                   | 4                             | 1002.5          | +8                                 | W           | 7            | w              | 38                   | 98                                  | 6             | 1½-2000      | St-Cu | 10   | -                                       | 5 |
| Aberdeen ...                                 | 1000.4                                                                  | +4                            | NW     | 5              | b        | 33                   | 87                            | 7                    | -                                   | Cu-Nb      | 2              | -                            | 2                                   | 1004.8                        | +5              | WNW                                | 4           | b            | 33             | 82                   | 7                                   | -             | -            | -     | -    | 2                                       |   |
| †East Fortune ...                            |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   | 1006.9                        | +4              | NW                                 | 4           | b            | 33             | 75                   | -                                   | -             | -            | -     | -    | *                                       |   |
| †Flamborough Head                            | 996.6                                                                   | +4                            | NNE    | 5              | C        | 39                   | 82                            | 8                    | 1½-2000                             | St-Cu      | 6              | A-St                         | 3                                   | *                             | 1003.7          | +5                                 | NW          | 6            | bc             | 37                   | 82                                  | 8             | 1½-2000      | St-Cu | 6    | A-St                                    | 3 |
| †Felixstowe ...                              | 997.1                                                                   | -1                            | NW     | 3              | O        | 42                   | 98                            | 4                    | 1-1000                              | Cu-Nb      | 8              | -                            | 3                                   | 1002.8                        | +6              | NNE                                | 3           | O            | 38             | 92                   | 4                                   | 1-1500        | St           | 9     | -    | 3                                       |   |
| †Cranwell (Lincs)                            | 997.6                                                                   | +4                            | NW     | 3              | om.      | 38                   | 98                            | 4                    | 1-1000                              | St         | 10             | -                            | -                                   | 1005.4                        | +4              | NW                                 | 3           | bc           | 33             | 92                   | 4                                   | 1½-2000       | St           | 2     | -    | *                                       |   |
| †Bedford ...                                 |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| Benson ...                                   | 997.6                                                                   | 0                             | W      | 2              | O        | 42                   | 87                            | 8                    | -                                   | -          | -              | -                            | *                                   | 1006.2                        | +4              | N                                  | 3           | O            | 38             | 92                   | 6                                   | -             | St           | 10    | -    | *                                       |   |
| London (Kew Obs.)                            | 997.5                                                                   | -1                            | NW     | 3              | C        | 43                   | 82                            | 5                    | 2-3000                              | St-Cu      | 6              | A-St                         | 2                                   | *                             | 1005.7          | +9                                 | N           | 4            | b              | 39                   | 82                                  | 6             | -            | -     | -    | *                                       |   |
| 1h. G.M.T. OF ... 26 <sup>th</sup>           |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | 7h. G.M.T. OF ... 26 <sup>th</sup>  |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
| †Houton B. (Orkney)                          |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     | 1013.2                        | -1              | -                                  | 0           | b            | 16             | 98                   | 7                                   | -             | -            | -     | -    | *                                       |   |
| †Eskdalemuir ...                             |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Stranraer ...                               |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Lough Foyle ...                             |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Valencia (Cahire'n)                         | 1006.6                                                                  |                               | SSW    | 2              | bc       | 48                   | *                             | *                    | *                                   | *          | *              | *                            | *                                   | 1004.4                        | -10             | S                                  | 5           | or           | 47             | 92                   | 5                                   | -             | St           | 10    | -    | *                                       |   |
| †Anglesey (Llangefni)                        |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Falmouth ...                                |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   | 1016.1                        | -2              | WSW                                | 3           | O            | 43             | 98                   | 5                                   | -             | St           | 10    | -    | *                                       |   |
| †Calshot (Hants) ...                         |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Capel (Folkestone)                          |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| §Aberdeen ...                                |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   | 1011.3                        | +1              | W                                  | 1           | m            | 27             | 82                   | 5                                   | -             | -            | -     | -    | 2                                       |   |
| †East Fortune ...                            |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Flamborough Head                            |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| †Felixstowe ...                              | 1013.4                                                                  | +6                            | NW     | 3              | b        | 34                   | 92                            | 4                    | -                                   | -          | -              | -                            | 3                                   | 1015.6                        | +5              | NW                                 | 2           | C            | 33             | 92                   | 4                                   | 1-1500        | St-Cu        | 4     | -    | 2                                       |   |
| †Cranwell (Lincs)                            |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   | 1014.9                        | +2              | WSW                                | 3           | b            | 33             | 92                   | 5                                   | 2-3000        | St           | 1     | A-St | 2                                       |   |
| †Bedford ...                                 |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| Benson ...                                   | *                                                                       | *                             | *      | *              | *        | *                    | *                             | *                    | *                                   | *          | *              | *                            | *                                   | 1015.9                        | 0               | SW                                 | 1           | b            | 30             | 92                   | 7                                   | -             | St-Cu        | 2     | -    | *                                       |   |
| London ...                                   | *                                                                       | *                             | *      | *              | *        | *                    | *                             | *                    | *                                   | *          | *              | *                            | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| (M.O. at Ldn.)                               |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              | *                                   |                               |                 |                                    |             |              |                |                      |                                     |               |              |       | *    |                                         |   |
| STATIONS CONTRIBUTING REPORTS AT 7h AND 19h. |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
| STATIONS.                                    | BAROM.<br>at<br>M.S.L.<br>m.b.                                          | TEMP.<br>°F.                  | WIND.  |                | Weather. | BAROMETER.           |                               | TEMPERATURE.         |                                     | WIND.      |                | Direc.<br>of Upper<br>Cloud. | Weather.                            | Sea<br>0-9.                   | Rainfall<br>mm. | TEMP.                              |             | WEATHER.     |                |                      | Sunshine<br>Hours.                  |               |              |       |      |                                         |   |
|                                              |                                                                         |                               | Direc. | Force<br>0-12. |          | at<br>M.S.L.<br>m.b. | †<br>Change<br>in<br>3 hours. | Temp.<br>°F.         | Change<br>in<br>24 hours.           | Direc.     | Force<br>0-12. |                              |                                     |                               |                 | Max.<br>°F.                        | Min.<br>°F. | Morning.     | Afternoon.     | Night.               |                                     |               |              |       |      |                                         |   |
|                                              |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 |                                    |             |              |                |                      |                                     |               |              |       |      |                                         |   |
| 19h. G.M.T. OF ... 25 <sup>th</sup>          |                                                                         |                               |        |                |          |                      |                               |                      |                                     |            |                |                              |                                     |                               |                 | 7h. G.M.T. OF ... 26 <sup>th</sup> |             |              |                |                      |                                     |               |              |       |      | 24 HOURS ENDED 7h. ... 26 <sup>th</sup> |   |
| Lerwick ...                                  | 1002.6                                                                  | 52                            | -      | 0              | bcm      | 1008.9               | +0                            | 30                   | -4                                  | -          | 0              | -                            | bcm                                 | 0                             | -               | 38                                 | 28          | cms.         | cms            | bcm                  | *                                   |               |              |       |      |                                         |   |
| Stornoway ...                                | 1006.5                                                                  | 33                            | WNW    | 1              | b        | 1006.7               | -4                            | 38                   | +5                                  | SW         | 3              | -                            | b                                   | 3                             | 1               | 38                                 | 26          | bc. ops      | os. b          | b                    | 2.1                                 |               |              |       |      |                                         |   |
| Castlebay (Barras)                           |                                                                         |                               |        |                |          | 1004.1               | -5                            | 41                   | SE                                  | 6          | -              | -                            | O                                   | 6                             | Trace           | 42                                 | 36          | bc. ops      | os. b          | bc                   | 5.7                                 |               |              |       |      |                                         |   |
| Glasgow ...                                  | 1008.4                                                                  | 31                            | NW     | 2              | b        | 1012.3               | -2                            | 24                   | -9                                  | E          | 2              | -                            | b2                                  | *                             | -               | 36                                 | 23          | c. bc2       | b2             | bc2. b2              | 5.3                                 |               |              |       |      |                                         |   |
| Malin Head ...                               | 1007.5                                                                  | 40                            | NW     | 1              | bc       | 1004.8               | -3                            | 38                   | 0                                   | SSW        | 4              | SW                           | C                                   | 3                             | -               | 45                                 | 33          | cm           | C              | bc                   | 0.2                                 |               |              |       |      |                                         |   |
| Blacksod Point                               | 1008.6                                                                  | 44                            | NW     | 2              | bc       | 1002.0               | -8                            | 46                   | +1                                  | SE         | 4              | -                            | T                                   | 4                             | 2               | 48                                 | 36          | bc.          | bc             | omp.                 | *                                   |               |              |       |      |                                         |   |
| Roche's Point...                             | 1012.6                                                                  | 43                            | NW     | 3              | b        | 1009.4               | -9                            | 48                   | +5                                  | SW         | 4              | -                            | T                                   | 4                             | 2               | 48                                 | 41          | cp. b.       | b.             | b. oclm              | *                                   |               |              |       |      |                                         |   |
| Birr Castle ...                              |                                                                         |                               |        |                |          | *                    | *                             | *                    | *                                   | *          | *              | *                            | *                                   | *                             | *               | *                                  | *           | *            | *              | *                    | *                                   |               |              |       |      |                                         |   |
| Donaghadee ...                               | 1008.7                                                                  | 39                            | W      | 1              | bcm      | 1010.7               | -3                            | 36                   | -1                                  | -          | 0              | -                            | b                                   | 1                             | Trace           | 43                                 | 30          | cmp.         | bcm            | bcm                  | *                                   |               |              |       |      |                                         |   |
| Liverpool (Bidston)                          | 1007.6                                                                  | 39                            | NW     | 2              | C        | 1012.3               | -1                            | 36                   | -2                                  | SSW        | 2              | -                            | O                                   | 2                             | 4               | 40                                 | 35          | bc           | C              | bxo                  | 2.7                                 |               |              |       |      |                                         |   |
| Holyhead ...                                 | 1008.9                                                                  | 42                            | NE     | 4              | bc       | 1011.5               | -2                            | 42                   | -1                                  | SW         | 3              | -                            | b                                   | 1                             | 1               | 44                                 | 38          | cp. bcp.     | bc. c          | b                    | 2.2                                 |               |              |       |      |                                         |   |
| Pembroke (St. Ann's Head)                    | 1009.7                                                                  | 42                            | NW     | 3              | CV       | 1013.6               | -1                            | 41                   | +2                                  | SSW        | 3              | -                            | O                                   | 4                             | 2               | 47                                 | 43          | cp. bcp.     | CV.            | bcv. cv              | 0.6                                 |               |              |       |      |                                         |   |
| Scilly (St. Mary's)                          | 1012.4                                                                  | 46                            | NW     | 2              | cpq      | 1016.1               | -2                            | 49                   | +6                                  | SW         | 3              | -                            | O                                   | 5                             | 2               | 50                                 | 43          | bcpq.        | bcpq.          | bc. o                | 3.1                                 |               |              |       |      |                                         |   |
| Jersey (St. Aubin)                           | 1008.5                                                                  | 46                            | WNW    | 6              | bq       | 1018.0               | 0                             | 40                   | -8                                  | W          | 3              | -                            | O                                   | 3                             | 6               | 51                                 | 36          | bc. ocp.     | bq.            | b. o. o              | 0.8                                 |               |              |       |      |                                         |   |
| Portland Bill ...                            | 1007.1                                                                  | 46                            | NW     | 6              | b        | 1016.1               | +2                            | 45                   | -2                                  | WNW        | 4              | -                            | bc                                  | 4                             | 1               | 48                                 | 42          | oq. c.       | C. bc          | bc                   | *                                   |               |              |       |      |                                         |   |
| Dungeness ...                                | 1001.1                                                                  | 42                            | NW     | 4              | C        | 1016.2               | -5                            | 30                   | -17                                 | NW         | 2              | -                            | b                                   | 3                             | -               | 45                                 | 29          | bc. c        | C              | C. b. bx.            | *                                   |               |              |       |      |                                         |   |
| Wick ...                                     | 1004.6                                                                  | 33                            | NW     | 2              | ps       | 1008.3               | 0                             | 26                   | -1                                  | WSW        | 1              | -                            | bc                                  | 2                             | 1               | 35                                 | 23          | bc           | bcm            | bc                   | *                                   |               |              |       |      |                                         |   |
| Nairn ...                                    | 1007.0                                                                  | 30                            | -      | 0              | bc       | 1009.6               | *                             | 26                   | -2                                  | -          | 0              | -                            | bc                                  | 1                             | -               | 31                                 | 26          | bc           | bc             | bcx                  | 2.0                                 |               |              |       |      |                                         |   |
| Leith ...                                    | 1013.6                                                                  | 32                            | W      | 1              | b        | 1011.6               | 0                             | 27                   | -9                                  | W          | 1              | -                            | b                                   | 2                             | -               | 37                                 | 26          | O. C. bc     | b              | C. b. m. b.          | *                                   |               |              |       |      |                                         |   |
| Tynemouth ...                                | 1005.1                                                                  | 33                            | NW     | 3              | bc       | 1014.1               | -5                            | 31                   | -4                                  | NW         | 2              | -                            | C                                   | 2                             | -               | 41                                 | 29          | bc.          | bcm            | bcm                  | *                                   |               |              |       |      |                                         |   |
| Spurn Head ...                               | 1004.5                                                                  | 38                            | NW     | 5              | C        | 1013.5               | +6                            | 32                   | -5                                  | W          | 4              | -                            | b                                   | 3                             | 1               | 39                                 | 31          | C. O. C      | C              | b                    | 0.0                                 |               |              |       |      |                                         |   |
| Yarmouth (Gor. lagoon)                       | 1000.8                                                                  | 38                            | N      | 3              | bc       | 1013.7               | +5                            | 30                   | -7                                  | WNW        | 2              | -                            | bc                                  | 2                             | 2               | 41                                 | 29          | cp. c        | bcpm. g.       | bcpm. g.             | 0.0                                 |               |              |       |      |                                         |   |
| Clacton-on-Sea                               | 1002.3                                                                  | 38                            | NW     | 4              | C        | 1015.8               | +2                            | 31                   | -8                                  | NW         | 2              | -                            | b                                   | 2                             | 10              | 42                                 | 30          | bc. om       | omp.           | bc. b. m. a          | 0.5                                 |               |              |       |      |                                         |   |
| Nottingham ...                               | 1006.4                                                                  | 37                            | N      | 2              | C        | 1014.8               | *                             | 30                   | -9                                  | W          | 1              | -                            | b                                   | 3                             | 3               | 39                                 | 29          | om.          | O. C           | C. b                 | 0.9                                 |               |              |       |      |                                         |   |



# SUMMARY OF CONDITIONS AT 7 A.M. Friday, 26th December, 1919

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.       | Visibility. | Sea.   |
|------------------------------|-----------------------------|--------------|-----------------------------------------|-------------|--------|
| 1. S.E. England              | Var. 2-5                    | Cold         | Fine to cloudy, local mist.             | Ord.        | Slight |
| 2. E. England                | W-NW. 2-10                  | "            | Fair or fine                            | "           | Smooth |
| 3. E. Midlands               | SW-W. 0-5                   | "            | Fine, local mist.                       | "           | "      |
| 4. W. Midlands               | SW. 0-5                     | "            | Variable sky                            | Fair        | "      |
| 5. S.W. England              | SW-NW. 10-15                | Moderate     | Fair to dull.                           | "           | Mod.   |
| 6. South Wales               | SSW. 10                     | R.mild       | Dull.                                   | V. good     | "      |
| 7. North Wales               | SW. 10                      | Moderate     | Fine to cloudy.                         | Good        | Smooth |
| 8. N.W. England              | S-SW. 0-5                   | R.cold       | Variable sky.                           | "           | "      |
| 9. N. Midlands               | Var. 0-5                    | Cold         | Fair or fine                            | Fair        | "      |
| 10. N.E. England             | Var. 5-15                   | "            | Fair or fine.                           | "           | Smooth |
| 11. E. Scotland              | SW-W. 0-5                   | "            | Fair or fine                            | "           | "      |
| 12. S.W. Scotland            | Sly. 0-5                    | V.-cold      | Fine                                    | Good        | "      |
| 13. Isle of Man              | S-SW. 0-5                   | R.cold       | Fair or fine                            | Fair        | "      |
| 14. N.&N.W.Scot-<br>land     | S-SW. 0-5                   | V.cold       | Fair or fine                            | Good        | "      |
| 15. Hebrides                 | SW. 2-10                    | Moderate     | Fair or fine                            | "           | Slight |
| 16. Orkneys and<br>Shetlands | S-SW. 0-5                   | V.cold       | Fair, local mist.                       | Ord.        | Calm   |
| 17. N.W. Ireland             | SE-S. 15                    | Moderate     | Cloudy or dull, local<br>mist and rain. | Poor        | Mod.   |
| 18. N.E. Ireland             | S-SW. 5-15                  | R.cold       | Fine to cloudy.                         | Ord.        | Smooth |
| 19. S.E. Ireland             | S-SW. 2-10                  | Moderate     | Dull, some rain & mist.                 | "           | Slight |
| 20. S.W. Ireland             | S-SW. 15-20                 | R.mild       | Dull, rainy.                            | "           | Mod.   |



GENERAL INFERENCE from observations received up to 9 A.M.

The depression approaching the West of Ireland will probably prove of a V-shaped character, and cause rain over the whole Kingdom.

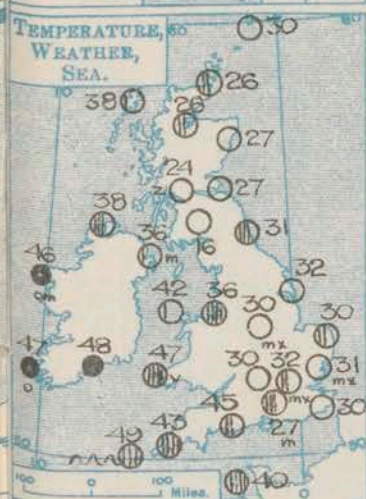
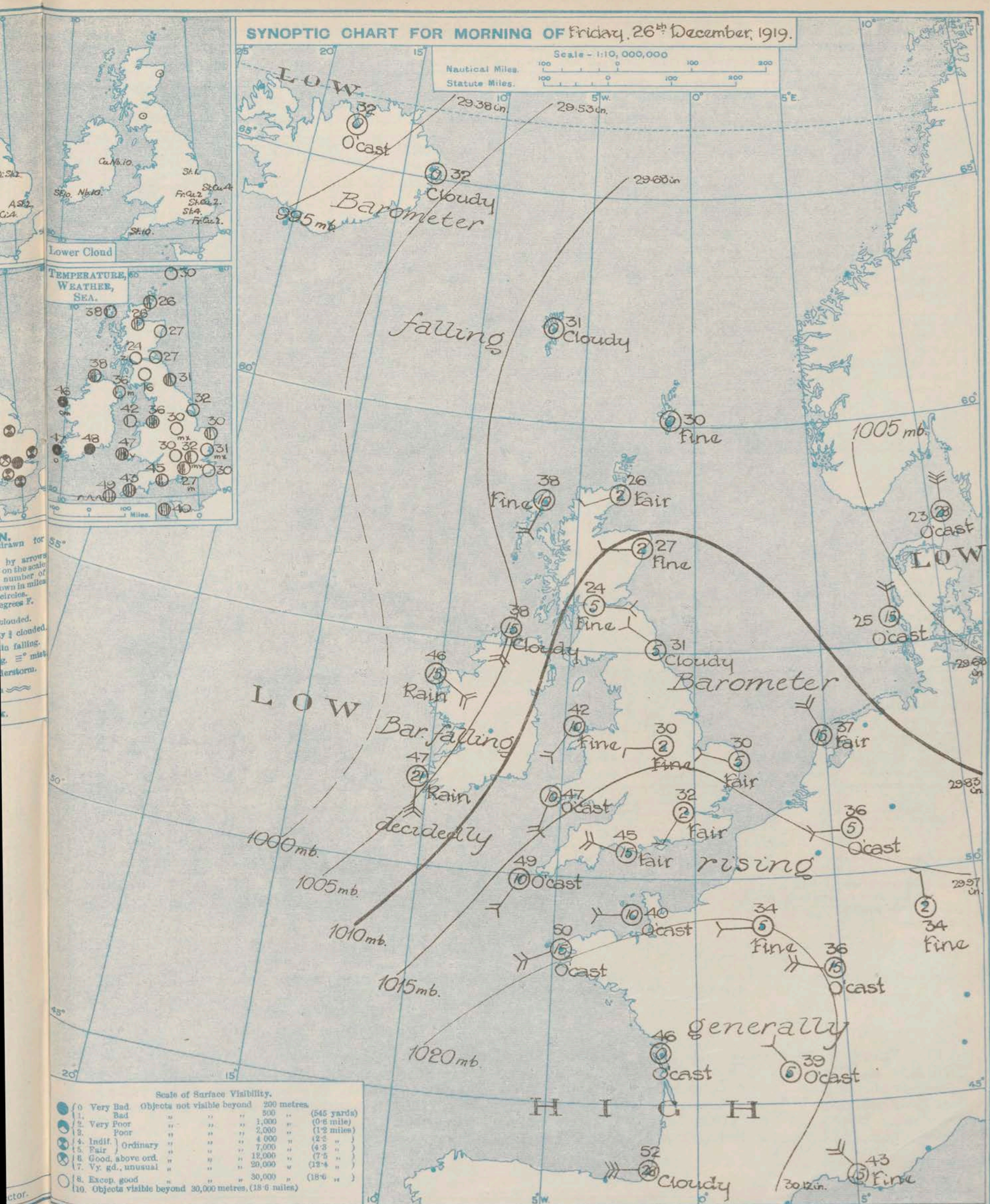
**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.  
**TEMPERATURE**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

| Districts.                   | Forecasts for the 24 hours commencing 3 p.m. Friday, 26th December, 1919 | Further Outlook. |
|------------------------------|--------------------------------------------------------------------------|------------------|
| 1. S.E. England              | Wind freshening from between S. and SW.                                  |                  |
| 2. E. England                | Dull, becoming rainy. Milder.                                            |                  |
| 3. E. Midlands               |                                                                          |                  |
| 4. W. Midlands               |                                                                          |                  |
| 5. S.W. England              | Wind between S. and SW. moderate to strong. Dull,                        |                  |
| 6. South Wales               | rain at times. Mild.                                                     |                  |
| 7. North Wales               |                                                                          |                  |
| 8. N.W. England              |                                                                          |                  |
| 9. N. Midlands               | Same as for 1-3                                                          |                  |
| 10. N.E. England             |                                                                          |                  |
| 11. E. Scotland              |                                                                          |                  |
| 12. S.W. Scotland            | Wind between SE. and SW., moderate, fresh or strong later.               |                  |
| 13. Isle of Man              | Becoming dull, with some rain or sleet. Becoming milder.                 |                  |
| 14. N.&N.W.Scot-<br>land     |                                                                          |                  |
| 15. Hebrides                 |                                                                          |                  |
| 16. Orkneys and<br>Shetlands |                                                                          |                  |
| 17. N.W. Ireland             |                                                                          |                  |
| 18. N.E. Ireland             | Same as for 4-10                                                         |                  |
| 19. S.E. Ireland             |                                                                          |                  |
| 20. S.W. Ireland             |                                                                          |                  |



# SYNOPTIC CHART FOR MORNING OF Friday, 26<sup>th</sup> December, 1919.

Scale - 1:10,000,000  
Nautical Miles. 100 0 100 200  
Statute Miles. 100 0 100 200



Scale of Surface Visibility.

|   |                                       |                                        |
|---|---------------------------------------|----------------------------------------|
| 0 | Very Bad.                             | Objects not visible beyond 200 metres. |
| 1 | Bad                                   | " " " 500 " (545 yards)                |
| 2 | Very Poor                             | " " " 1,000 " (0.6 mile)               |
| 3 | Poor                                  | " " " 2,000 " (1.2 miles)              |
| 4 | Indif. Ordinary                       | " " " 4,000 " (2.5 " )                 |
| 5 | Fair                                  | " " " 7,000 " (4.3 " )                 |
| 6 | Good, above ord.                      | " " " 12,000 " (7.5 " )                |
| 7 | Vy. gd., unusual                      | " " " 20,000 " (12.5 " )               |
| 8 | Excep. good                           | " " " 30,000 " (18.6 " )               |
| 9 | Objects visible beyond 30,000 metres. | (18.6 miles)                           |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 360. B

Friday,  
26<sup>th</sup> December 1919

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 25 <sup>th</sup> |                    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|------------------------------------------------------------------------------------|--------------------|-----------|------------|--------------|--------------|---------------------------------------|-------------------------------------|------------------------------------------------|------------------|----------------------|------------------|------------|--------------|--------------|---------------------------------------|-------------------------------------|------------------------------------------------|-----------|--|
| STATIONS.                                                                          |                    | WEATHER.  |            | TEMPERATURE. |              | Rainfall.                             |                                     | SUNSHINE.                                      |                  | STATIONS.            |                  | WEATHER.   |              | TEMPERATURE. |                                       | Rainfall.                           |                                                | SUNSHINE. |  |
|                                                                                    |                    | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-9h.<br>24 <sup>th</sup> | Day.<br>9h-17h.<br>25 <sup>th</sup> | Sunrise<br>to Sun-<br>set.<br>25 <sup>th</sup> | Forenoon.        |                      |                  | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>17h-9h.<br>24 <sup>th</sup> | Day.<br>9h-17h.<br>25 <sup>th</sup> | Sunrise<br>to Sun-<br>set.<br>25 <sup>th</sup> |           |  |
| Scotland.                                                                          | Oban ... ..        |           |            |              |              |                                       |                                     |                                                |                  | England,<br>N.W.     | Douglas (I.O.M.) |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Banff ... ..       | bc.c      | bc.o       | 37           | 26           | -                                     | 1                                   | 2.4                                            | Blackpool ... .. |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Montrose ... ..    |           |            |              |              |                                       |                                     |                                                | Southport ... .. |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | St. Andrews ...    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
| England, N.E.                                                                      | Harrogate ... ..   | c.bc.     | bc.b.bc    | 37           | 32           | ?                                     | 0.1                                 | 1.3                                            | Midlands.        | Buxton ... ..        |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Skegness ... ..    |           |            |              |              |                                       |                                     |                                                |                  | Leamington Spa... .. | od.c.            | bc.c.o     | 41           | 35           | 1                                     | 2                                   |                                                | 0.0       |  |
|                                                                                    |                    |           |            |              |              |                                       |                                     |                                                |                  | Malvern ... ..       |                  |            |              |              |                                       |                                     |                                                |           |  |
| England, E.                                                                        | Felixstowe ... ..  | bc.m      | cp.        | 42           | 38           | -                                     | 1                                   | 0.8                                            | Wales.           | Ross-on-Wye ... ..   | opgrh.c          | o.c.v.c.b  | 43           | 36           | 0.2                                   | 3                                   |                                                | 0.8       |  |
|                                                                                    | Walton-on-Naze...  |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Southend-on-Sea... |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    |                    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
| England, S.E.                                                                      | Margate ... ..     |           |            |              |              |                                       |                                     |                                                | England, S.W.    | Rhyl ... ..          |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Ramsgate ... ..    | bc        | -          | 43           | 37           | -                                     | -                                   | 0.0                                            |                  | Colwyn Bay ... ..    |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Folkestone ... ..  | bc.c      | c.o        | 45           | 41           | 0.4                                   | -                                   | 1.4                                            |                  | Llandudno ... ..     | or.c.b           | c.b        | 45           | 35           | 12                                    | 1                                   |                                                | 0.8       |  |
|                                                                                    | Hastings ... ..    | b.bc.o    | o          | ?            | 40           | 2                                     | -                                   | 1.3                                            |                  | Aberystwyth ... ..   |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Eastbourne... ..   | bc.o      | o          | 41           | 39           | 3                                     | 1                                   | 0.8                                            |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Brighton ... ..    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Worthing ... ..    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Littlehampton ...  | og.       | bc.o       | 45           | 40           | 3                                     | 4                                   | 0.9                                            |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Bournemouth ...    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    | Tonbridge Wells    | bc.op     | bc.c.o     | 43           | 38           | 0.4                                   | 0.1                                 | 0.4                                            |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    |                    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |
|                                                                                    |                    |           |            |              |              |                                       |                                     |                                                |                  |                      |                  |            |              |              |                                       |                                     |                                                |           |  |

| STATIONS.                  | SUMMARIES FOR PAST 24 HOURS. |                          |                                            |                        |                 |                 |                    |             |               | THE BEAUFORT SCALE OF WIND FORCE. |  |
|----------------------------|------------------------------|--------------------------|--------------------------------------------|------------------------|-----------------|-----------------|--------------------|-------------|---------------|-----------------------------------|--|
|                            | WEATHER                      |                          |                                            |                        | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass ° F. | RAINFALL.   |               |                                   |  |
|                            | 7h-18h 25 <sup>th</sup>      | 13h-18h 25 <sup>th</sup> | 18h 25 <sup>th</sup> -12h 26 <sup>th</sup> | 1h-7h 26 <sup>th</sup> |                 |                 |                    | Day. 7h-18h | Night. 18h-7h |                                   |  |
| †Houton Bay (Orkney)...    |                              |                          |                                            |                        | *               | *               | *                  | *           |               |                                   |  |
| Eskdalemuir ... ..         | o.c.bc                       | bc.bz.b                  |                                            | bx                     | 34              | 14              | 9                  | -           | -             | 4.0                               |  |
| †Stranraer ... ..          |                              |                          |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| †Lough Foyle ... ..        |                              |                          |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| Valencia (Cahirciveen) ... | cp.h                         | c.bc                     | ba.bc.or                                   |                        | 48              | 40              | 38                 | -           | 7             | 3.5                               |  |
| †Anglesey (Llangefni) ...  |                              |                          |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| Falmouth ... ..            | tr.hg                        | cp.Tsq.                  |                                            | o.b.o                  | 48              | 40              | 34                 | 5           | -             | 1.8                               |  |
| †Calshot (Hants) ... ..    |                              | r                        |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| †Capei (Folkestone)...     | v.r.                         | c.o.z.                   |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| Aberdeen ... ..            | b.sp                         | b.spq.                   |                                            | b.bz                   | 33              | 27              | 17                 | 0.2         | -             | 4.6                               |  |
| †East Fortune ... ..       |                              | b.                       |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| †Flamborough Head ...      | bc.c                         | bc.or.                   |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| †Felixstowe ... ..         | p.                           | or.                      | bc.c                                       | b.bc                   | 42              | 31              | *                  | *           | *             | *                                 |  |
| †Cranwell (Lincs) ...      | c.or.                        | c.o.b.c                  |                                            | bx                     | 38              | 25              | *                  | *           | *             | *                                 |  |
| †Bedford ... ..            |                              |                          |                                            |                        | *               | *               | *                  | *           | *             | *                                 |  |
| Benson ... ..              | bc.p.                        | bc                       |                                            |                        | 42              | 28              | 19                 | 1           | -             | *                                 |  |
| London (New Obsy.) ...     | b.p.c.p.s.p.                 | om.bc                    | b.bcm                                      | x                      | 44              | 32              | 23                 | 0.3         | -             | 0.6                               |  |

**BEAUFORT NOTATION.**

b blue sky (not more than a quarter covered).

bc sky partly cloudy (one half covered).

c generally cloudy (three quarters covered).

d drizzle, or fine rain.

e wet air without rain falling.

f fog. g gloom.

h hail. i lightning.

m mist.

o overcast sky.

p passing showers.

q squalls.

r rain.

rs sleet, i.e., rain and snow together.

s snow.

t thunder.

u ugly, threatening sky.

v unusual visibility.

w dew.

x hoar frost.

y dry air; humidity less than 60 per cent.

z dust haze; the turbid atmosphere of dry weather.

**THE BEAUFORT SCALE OF WIND FORCE.**

| No. | Limits of Velocity.     |                   |
|-----|-------------------------|-------------------|
|     | 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                     | 1.5-3.3           |
| 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     |

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

**SYMBOLS—**

|              |   |              |   |
|--------------|---|--------------|---|
| Aurora       | ☄ | Solar halo   | ☉ |
| Rime         | ❄ | Lunar halo   | ☾ |
| Glazed frost | ☁ | Solar corona | ☉ |
| Glazed roads | ☁ | Lunar corona | ☾ |

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                      |           |       | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                                    | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM |          |        |         |
|--------------------------------|-----------------------------------------------|-----------|-------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------|--------|---------|
|                                | Morning                                       | Afternoon | Night |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                                 | 26 <sup>th</sup> & 27 <sup>th</sup> December 1919.                                                     |          |        |         |
|                                | 24 HOURS ENDED 9h G.M.T. ... 26 <sup>th</sup> |           |       |                       |                       |                           |                       |                                       | YESTERDAY.      | TO-DAY.        |                                                                                                 | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday.              |          |        |         |
| Greenwich (Royal Observatory)  | 0.                                            | 0.50      | -     | 44                    | 30                    | 20                        | 1                     | 0.7                                   | 77              | 87             | Total.....147..... Joules.<br><br>Milliwatts.<br><br>Average Rate. 5.3<br><br>Maximum Rate. 5.3 | Stations.                                                                                              | Sunrise. | Noon.  | Sunset. |
| City (Bunhill Row) ...         | *                                             | *         | *     | *                     | *                     | *                         | *                     | 0.1                                   | *               | *              |                                                                                                 | G.M.T.                                                                                                 | G.M.T.   | G.M.T. |         |
| Westminster (St. James's Park) | *                                             | *         | *     | *                     | *                     | *                         | *                     | 0.5                                   | *               | *              |                                                                                                 | Yarmouth...                                                                                            | 8.6      | 11.54  | 3.42    |
| (Admiralty Arch)               | 0m.cm                                         | 0m.oq     | -     | 45                    | 33                    | *                         | 1                     | 0.3                                   | 82              | 91             |                                                                                                 | Greenwich                                                                                              | 8.6      | 11.54  | 3.43    |
| Camden Sq. (British Rainfall)  | -                                             | -         | *     | 44                    | 30                    | 27                        | 1                     | -                                     | -               | 95             |                                                                                                 | Wick                                                                                                   | 8.7      | 12.1   | 3.54    |
| Kensington Palace ...          | 0                                             | 0         | *     | 45                    | 31                    | 25                        | 1                     | *                                     | 86              | 84             | Valencia ...                                                                                    | 8.8                                                                                                    | 12.1     | 3.55   |         |
|                                |                                               |           |       |                       |                       |                           |                       |                                       |                 |                |                                                                                                 |                                                                                                        | 9.5      | 12.13  | 3.20    |
|                                |                                               |           |       |                       |                       |                           |                       |                                       |                 |                |                                                                                                 |                                                                                                        | 9.5      | 12.13  | 3.21    |
|                                |                                               |           |       |                       |                       |                           |                       |                                       |                 |                |                                                                                                 |                                                                                                        | 8.51     | 12.42  | 4.33    |
|                                |                                               |           |       |                       |                       |                           |                       |                                       |                 |                |                                                                                                 |                                                                                                        | 8.51     | 12.42  | 4.34    |

## NOTES ON THE WEATHER OF YESTERDAY.

There were showers in many places, the largest rainfall measurement being 10 mm. at Clacton. There was a thunderstorm at Falmouth, accompanied by hail. Temperature was lower than of late and remained below 40° in the northern districts, only reaching 31° at Nairn. There was frost at night in many places, the lowest minimum being 14° at Eskdalemuir. The best sunshine measurements were in Scotland, 5.3 hours being recorded at Glasgow.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21219B SATURDAY, 27<sup>TH</sup> DECEMBER 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H. |        |        |       |       |         |            |           |              |        |            |       |              |       |                                 |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
|-------------------------------------------------------------------------|--------|--------|-------|-------|---------|------------|-----------|--------------|--------|------------|-------|--------------|-------|---------------------------------|--------|-------|--------|----------|-----------|----------|-----------|-------------|--------|------------|-------|--------------|-------|------|-------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| STATIONS.                                                               | BAROM. | †      | WIND. |       | Weather | TEMP.      | HUMIDITY. | Visibility.  | Height | Low Cloud. |       | Upper Cloud. |       | Sea                             | BAROM. | †     | WIND.  |          | Weather   | TEMP.    | HUMIDITY. | Visibility. | Height | Low Cloud. |       | Upper Cloud. |       | Sea  |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
|                                                                         | at     | Change | Dir.  | Force |         | °F.        | %         | 0-10.        | Feet.  | Form.      | Amt.  | Form.        | Amt.  |                                 | 0-9.   | at    | Change | Dir.     |           | Force    | °F.       | %           | 0-10.  | Feet.      | Form. | Amt.         | Form. |      | Amt.  | 0-9.  |       |       |       |      |       |      |       |      |       |      |       |      |       |
|                                                                         | M.S.L. | in 3   |       |       |         | m.b.       | hours.    | 0-12.        | 0-10.  | 0-10.      | 0-10. | 0-10.        | 0-10. |                                 | 0-10.  | 0-10. | 0-9.   |          |           |          | M.S.L.    | in 3        | m.b.   | hours.     | 0-12. | 0-10.        | 0-10. |      | 0-10. | 0-10. | 0-10. | 0-10. | 0-9.  |      |       |      |       |      |       |      |       |      |       |
| 13H. G.M.T. 26 <sup>TH</sup>                                            |        |        |       |       |         |            |           |              |        |            |       |              |       | 18H. G.M.T. OF 26 <sup>TH</sup> |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Houton B. (Orkney)                                                     | 1007.1 | -7     | SSE   | 4     | 0       | 32         | 82        | 6            | -      | -          | -     | Asf          | 10    | *                               | 998.6  | -11   | SE     | 4        | 0         | 34       | 92        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Eskdalemuir ...                                                        | 1007.1 | -7     | SSE   | 4     | 0       | 32         | 82        | 6            | -      | -          | -     | Asf          | 10    | *                               | 998.6  | -11   | SE     | 4        | 0         | 34       | 92        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Stranraer ...                                                          | 1007.1 | -7     | SSE   | 4     | 0       | 32         | 82        | 6            | -      | -          | -     | Asf          | 10    | *                               | 998.6  | -11   | SE     | 4        | 0         | 34       | 92        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Lough Foyle ...                                                        | 1007.1 | -7     | SSE   | 4     | 0       | 32         | 82        | 6            | -      | -          | -     | Asf          | 10    | *                               | 998.6  | -11   | SE     | 4        | 0         | 34       | 92        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Valencia (Cahire'n)                                                    | 994.1  | -8     | SSW   | 6     | 0       | 53         | 94        | 6            | 1-1000 | St         | 10    | -            | -     | *                               | 998.6  | +9    | WSW    | 5        | 0         | 52       | 75        | 6           | 1-2000 | St cu      | 9     | -            | -     | 4    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Anglesey (Llangefni)                                                   | 1007.0 | -10    | SSW   | 6     | 0       | 48         | 92        | 3            | -      | St cu      | 10    | -            | -     | *                               | 1002.1 | -4    | W      | 8        | 0         | 51       | 92        | 1           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Falmouth ...                                                           | 1014.1 | -4     | S     | 4     | 0       | 46         | 92        | 3            | 1-1500 | Nb         | 10    | -            | -     | 4                               | 1010.3 | -8    | S      | 6        | 0         | 41       | 98        | 3           | 2500   | Nb         | 10    | -            | -     | 5    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Calshot (Hants) ...                                                    | 1014.1 | -4     | S     | 4     | 0       | 46         | 92        | 3            | 1-1500 | Nb         | 10    | -            | -     | 4                               | 1010.3 | -8    | S      | 6        | 0         | 41       | 98        | 3           | 2500   | Nb         | 10    | -            | -     | 5    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Capel (Folkestone)                                                     | 1016.3 | -3     | S     | 2     | 0       | 39         | 92        | 7            | 2-3000 | St cu      | 10    | -            | -     | 3                               | 1010.3 | -8    | S      | 6        | 0         | 41       | 98        | 3           | 2500   | Nb         | 10    | -            | -     | 5    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Aberdeen ...                                                            | 1008.6 | -5     | SSE   | 4     | bc      | 37         | 55        | 7            | -      | Cu         | 3     | Cl. St       | 3     | 2                               | 1001.2 | -9    | SSE    | 6        | 0         | 39       | 65        | 7           | -      | Cu         | 10    | -            | -     | 3    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †East Fortune ...                                                       | 1007.6 | -7     | SSW   | 4     | c       | 34         | 87        | 7            | 3-4000 | St cu      | 3     | Cl           | 4     | *                               | 998.9  | -2    | ESE    | 4        | 0         | 36       | 82        | 7           | 4-5000 | Nb         | 9     | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Flamboro Head                                                          | 992.4  | -2     | SSW   | 3     | 0       | 38         | 87        | 3            | 2-2000 | St         | 10    | -            | -     | *                               | 998.9  | -2    | ESE    | 4        | 0         | 36       | 82        | 7           | 4-5000 | Nb         | 9     | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Felixstowe ...                                                         | 1016.2 | -8     | WSW   | 3     | c       | 38         | 97        | 4            | 1-1500 | St         | 6     | Cl. St       | 2     | 2                               | 1013.3 | -8    | SW     | 4        | 0         | 41       | 98        | 4           | 1-1000 | Nb         | 10    | -            | -     | 4    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Cranwell (Lincs)                                                       | 1013.1 | -4     | ESE   | 4     | 0       | 35         | 92        | 6            | 3-4000 | St cu      | 3     | Asf          | 2     | *                               | 1004.9 | -4    | SE     | 4        | 0         | 35       | 98        | 4           | 1-2000 | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Bedford ...                                                            | 1012.8 | -3     | S     | 2     | 0       | 38         | 92        | 6            | *      | *          | *     | *            | *     | *                               | 1004.0 | -14   | SSE    | 5        | 0         | 43       | 98        | 3           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Benson ...                                                              | 1012.8 | -3     | S     | 2     | 0       | 38         | 92        | 6            | *      | *          | *     | *            | *     | *                               | 1004.0 | -14   | SSE    | 5        | 0         | 43       | 98        | 3           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| London (Kew Ob.)                                                        | 1014.1 | -6     | SSW   | 2     | om      | 41         | 87        | 5            | -      | St cu      | 7     | Asf          | 3     | *                               | 1006.8 | -10   | S      | 3        | 0         | 43       | 92        | 4           | -      | St         | 8     | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| 1H. G.M.T. OF 27 <sup>TH</sup>                                          |        |        |       |       |         |            |           |              |        |            |       |              |       | 7H. G.M.T. OF 27 <sup>TH</sup>  |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Houton B. (Orkney)                                                     | 990.2  | -2     | WSW   | 6     | bc      | 42         | 82        | 6            | -      | Cu         | 4     | -            | -     | *                               | 995.1  | -11   | S      | 5        | 0         | 42       | 98        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Eskdalemuir ...                                                        | 990.2  | -2     | WSW   | 6     | bc      | 42         | 82        | 6            | -      | Cu         | 4     | -            | -     | *                               | 995.1  | -11   | S      | 5        | 0         | 42       | 98        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Stranraer ...                                                          | 990.2  | -2     | WSW   | 6     | bc      | 42         | 82        | 6            | -      | Cu         | 4     | -            | -     | *                               | 995.1  | -11   | S      | 5        | 0         | 42       | 98        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Lough Foyle ...                                                        | 990.2  | -2     | WSW   | 6     | bc      | 42         | 82        | 6            | -      | Cu         | 4     | -            | -     | *                               | 995.1  | -11   | S      | 5        | 0         | 42       | 98        | 4           | -      | Nb         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Valencia (Cahire'n)                                                    | 997.4  | -2     | SSW   | 5     | 0       | 50         | *         | *            | *      | *          | *     | *            | *     | 4                               | 999.2  | +3    | WSW    | 6        | bc        | 46       | 82        | 7           | -      | Cu         | 5     | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Anglesey (Llangefni)                                                   | 1006.3 | +3     | W     | 3     | 0       | 49         | 82        | 6            | -      | St         | 9     | -            | -     | *                               | 1004.0 | -2    | WSW    | 6        | 0         | 49       | 92        | 6           | -      | St         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Falmouth ...                                                           | 1006.3 | +3     | W     | 3     | 0       | 49         | 82        | 6            | -      | St         | 9     | -            | -     | *                               | 1004.0 | -2    | WSW    | 6        | 0         | 49       | 92        | 6           | -      | St         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Calshot (Hants) ...                                                    | 1006.3 | +3     | W     | 3     | 0       | 49         | 82        | 6            | -      | St         | 9     | -            | -     | *                               | 1004.0 | -2    | WSW    | 6        | 0         | 49       | 92        | 6           | -      | St         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Capel (Folkestone)                                                     | 1006.3 | +3     | W     | 3     | 0       | 49         | 82        | 6            | -      | St         | 9     | -            | -     | *                               | 1004.0 | -2    | WSW    | 6        | 0         | 49       | 92        | 6           | -      | St         | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Aberdeen ...                                                            | 994.5  | -5     | SSW   | 2     | em. c   | 37         | 92        | 5            | -      | -          | -     | -            | -     | *                               | 994.5  | -5    | SSW    | 2        | em. c     | 37       | 92        | 5           | -      | -          | -     | -            | -     | 4    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †East Fortune ...                                                       | 994.5  | -5     | SSW   | 2     | em. c   | 37         | 92        | 5            | -      | -          | -     | -            | -     | *                               | 994.5  | -5    | SSW    | 2        | em. c     | 37       | 92        | 5           | -      | -          | -     | -            | -     | 4    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Flamboro Head                                                          | 994.5  | -5     | SSW   | 2     | em. c   | 37         | 92        | 5            | -      | -          | -     | -            | -     | *                               | 994.5  | -5    | SSW    | 2        | em. c     | 37       | 92        | 5           | -      | -          | -     | -            | -     | 4    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Felixstowe ...                                                         | 999.2  | -6     | W     | 2     | ce      | 44         | 98        | 4            | 1-1500 | St cu      | 8     | -            | -     | 2                               | 1000.2 | -1    | W      | 3        | 0         | 45       | 98        | 4           | 1-1500 | St         | 10    | -            | -     | 2    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Cranwell (Lincs)                                                       | 996.2  | 0      | W     | 1     | bc      | 45         | 98        | 4            | 2-3000 | St         | 4     | Asf          | 2     | *                               | 994.7  | -2    | SW     | 3        | 0         | 45       | 82        | 6           | 2-3000 | St         | 6     | Asf          | 3     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| †Bedford ...                                                            | 996.2  | 0      | W     | 1     | bc      | 45         | 98        | 4            | 2-3000 | St         | 4     | Asf          | 2     | *                               | 994.7  | -2    | SW     | 3        | 0         | 45       | 82        | 6           | 2-3000 | St         | 6     | Asf          | 3     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Benson ...                                                              | 999.0  | 0      | *     | *     | *       | *          | *         | *            | *      | *          | *     | *            | *     | *                               | 999.0  | -1    | S      | 4        | 0         | 47       | 92        | 6           | -      | -          | -     | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| London (Kew Ob.)                                                        | 999.0  | 0      | *     | *     | *       | *          | *         | *            | *      | *          | *     | *            | *     | *                               | 999.0  | -1    | SW     | 4        | 0         | 47       | 87        | 4           | 2-3000 | St cu      | 10    | -            | -     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.                            |        |        |       |       |         |            |           |              |        |            |       |              |       |                                 |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| STATIONS.                                                               | BAROM. | TEMP.  | WIND. |       | Weather | BAROMETER. |           | TEMPERATURE. |        | WIND.      |       | Dir.         | Force | Dir.                            | Force  | Dir.  | Force  | Dir.     | Force     | Dir.     | Force     | Dir.        | Force  | Dir.       | Force | Dir.         | Force |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
|                                                                         | at     | Change | Dir.  | Force |         | at         | Change    | Dir.         | Force  | Dir.       | Force |              |       |                                 |        |       |        |          |           |          |           |             |        |            |       |              |       | Dir. | Force | Dir.  | Force | Dir.  | Force | Dir. | Force | Dir. | Force | Dir. | Force | Dir. | Force | Dir. | Force |
|                                                                         | M.S.L. | in 3   |       |       |         | m.b.       | hours.    |              |        |            |       |              |       |                                 |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| 18H. G.M.T. OF 26 <sup>TH</sup>                                         |        |        |       |       |         |            |           |              |        |            |       |              |       | 7H. G.M.T. OF 27 <sup>TH</sup>  |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Lerwick ...                                                             | 996.8  | 36     | SSE   | 5     | bcu     | 989.6      | -5        | 35           | +5     | SE         | 11    | -            | omr   | 8                               | 3      | 38    | 32     | bcu      | bcu       | omr      | *         | *           | *      | *          | *     | *            | *     | *    | *     |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Stornoway ...                                                           | 988.2  | 38     | SE    | 5     | or      | 976.7      | -5        | 42           | +4     | SE         | 6     | -            | org   | 5                               | 18     | 44    | 36     | br       | or        | org      | 0.0       | 0.0         | 0.0    | 0.0        | 0.0   | 0.0          | 0.0   | 0.0  | 0.0   |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Castell Bay (Barra Is)                                                  | 979.6  | 4      | SE    | 8     | or      | 979.7      | +2        | 45           | *      | WNW        | 6     | -            | 0     | 6                               | 12     | 46    | 36     | or       | or        | 0        | 0.0       | 0.0         | 0.0    | 0.0        | 0.0   | 0.0          | 0.0   | 0.0  | 0.0   |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Glasgow ...                                                             | 994.6  | 34     | ENE   | 3     | omr     | 983.5      | -6        | 42           | +18    | SW         | 4     | -            | 0     | *                               | 8      | 44    | 24     | bc c. om | ast. st.  | rs. o. p | 0.0       | 0.0         | 0.0    | 0.0        | 0.0   | 0.0          | 0.0   | 0.0  | 0.0   |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Malin Head ...                                                          | 982.4  | 43     | SE    | 4     | omr     | 982.8      | +2        | 47           | +9     | WSW        | 5     | -            | omp   | 4                               | 7      | 49    | 35     | omp      | omr       | omp      | 0.0       | 0.0         | 0.0    | 0.0        | 0.0   | 0.0          | 0.0   | 0.0  | 0.0   |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Blackod Point                                                           | 986.0  | 51     | WSW   | 5     | omgr    | 991.0      | +5        | 50           | +4     | W          | 4     | -            | cmq   | 4                               | 24     | 53    | 45     | omgr     | omgr      | cmq      | *         | *           | *      | *          | *     | *            | *     | *    | *     |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Roche's Point...                                                        | 997.4  | 51     | W     | 5     | 0       | 998.1      | 0         | 47           | -1     | W          | 5     | -            | b     | 4                               | 10     | 53    | 47     | rf       | rf. bc. o | b        | *         | *           | *      | *          | *     | *            | *     | *    |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Hill Castle ...                                                         | 991.3  | 50     | W     | 4     | Y       | 993.8      | *         | 42           | *      | W          | 4     | -            | c     | *                               | 9      | 51    | 41     | odr      | or        | og. p. c | 0.0       | 0.0         | 0.0    | 0.0        | 0.0   | 0.0          | 0.0   | 0.0  | 0.0   |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Donaghadee ...                                                          | 989.9  | 46     | S     | 5     | omr     | 987.4      | -3        | 44           | +6     | W          | 5     | -            | bcq   | 5                               | 14     | 49    | 34     | omr      | omr       | bc       | *         | *           | *      | *          | *     | *            | *     | *    | *     |       |       |       |       |      |       |      |       |      |       |      |       |      |       |
| Liverpool (Bidston)                                                     | 997.4  | 37     | SE    | 4     | r       | 990.9      | -6        | 46           | +10    | SW         | 6     | W            | og    | 5</                             |        |       |        |          |           |          |           |             |        |            |       |              |       |      |       |       |       |       |       |      |       |      |       |      |       |      |       |      |       |



# SUMMARY OF CONDITIONS AT 7 A.M. Saturday, 27th December, 1919.

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.          | Visibility. | Sea.     |
|------------------------------|-----------------------------|--------------|--------------------------------------------|-------------|----------|
| 1. S.E. England              | SW. 15-30.                  | r.mild.      | Dull, slight local mist                    | Fair.       | r.rough. |
| 2. E. England                | WSW 10-15.                  | "            | and rain.<br>Fair to overcast.             | Var.        | Mod.     |
| 3. E. Midlands               | S-W 10-15.                  | "            | Dull.                                      | Good.       | "        |
| 4. W. Midlands               | S-W 10-20.                  | "            | Dull.                                      | Fair.       | "        |
| 5. S.W. England              | SW-W 20-30.                 | "            | Fair to overcast.                          | "           | r.rough. |
| 6. South Wales               | S. 25-30.                   | "            | Dull; squally.                             | "           | "        |
| 7. North Wales               | WSW. 25-35.                 | "            | Dull, some rain, mist &<br>squalls.        | Indiff.     | "        |
| 8. N.W. England              | SW. 20-30.                  | "            | Dull.                                      | "           | "        |
| 9. N. Midlands               | SW. 10-15.                  | r.mild.      | Dull.                                      | Ord.        | "        |
| 10. N.E. England             | SW. 5-10.                   | "            | Fair to overcast, local<br>mist.           | Good        | Mod.     |
| 11. E. Scotland              | S-SW. 0-10.                 | Mod.         | Dull, some rain & mist.                    | Ord.        | "        |
| 12. S.W. Scotland            | S-SW 10-15.                 | r.mild.      | Overcast, some heavy rain<br>and mist.     | "           | "        |
| 13. Isle of Man              | SW. 20-25.                  | "            | cloudy, squally.                           | Fair.       | R.rough  |
| 14. N. & N.W. Scot-<br>land  | SE-S. 10-20.                | Mod.         | Fair to overcast, some<br>mist.            | Ord.        | Mod.     |
| 15. Hebrides                 | SE. 20-30.                  | "            | Dull, rain, squally.                       | "           | R.rough  |
| 16. Orkneys and<br>Shetlands | SE. 30-60                   | "            | Dull, mist and rain.                       | Indiff.     | High     |
| 17. N.W. Ireland             | W-WSW. 15-20                | R.mild       | Dull, misty, local squalls<br>and showers. | "           | Mod.     |
| 18. N.E. Ireland             | W-WSW. 20                   | Mod.         | Fair or dull, squally.                     | Fair        | R.rough  |
| 19. S.E. Ireland             | W-SW. 15-20                 | "            | Fine to cloudy.                            | Var.        | Mod.     |
| 20. S.W. Ireland             | WSW. 20-30                  | "            | Fair or fine, squally.                     | Good        | "        |



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. R thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

GENERAL INFERENCE from observations received up to 9 a.m.

The depression between the Hebrides and Iceland is moving slowly NE., but other depressions or secondaries are likely to maintain unsettled weather generally.

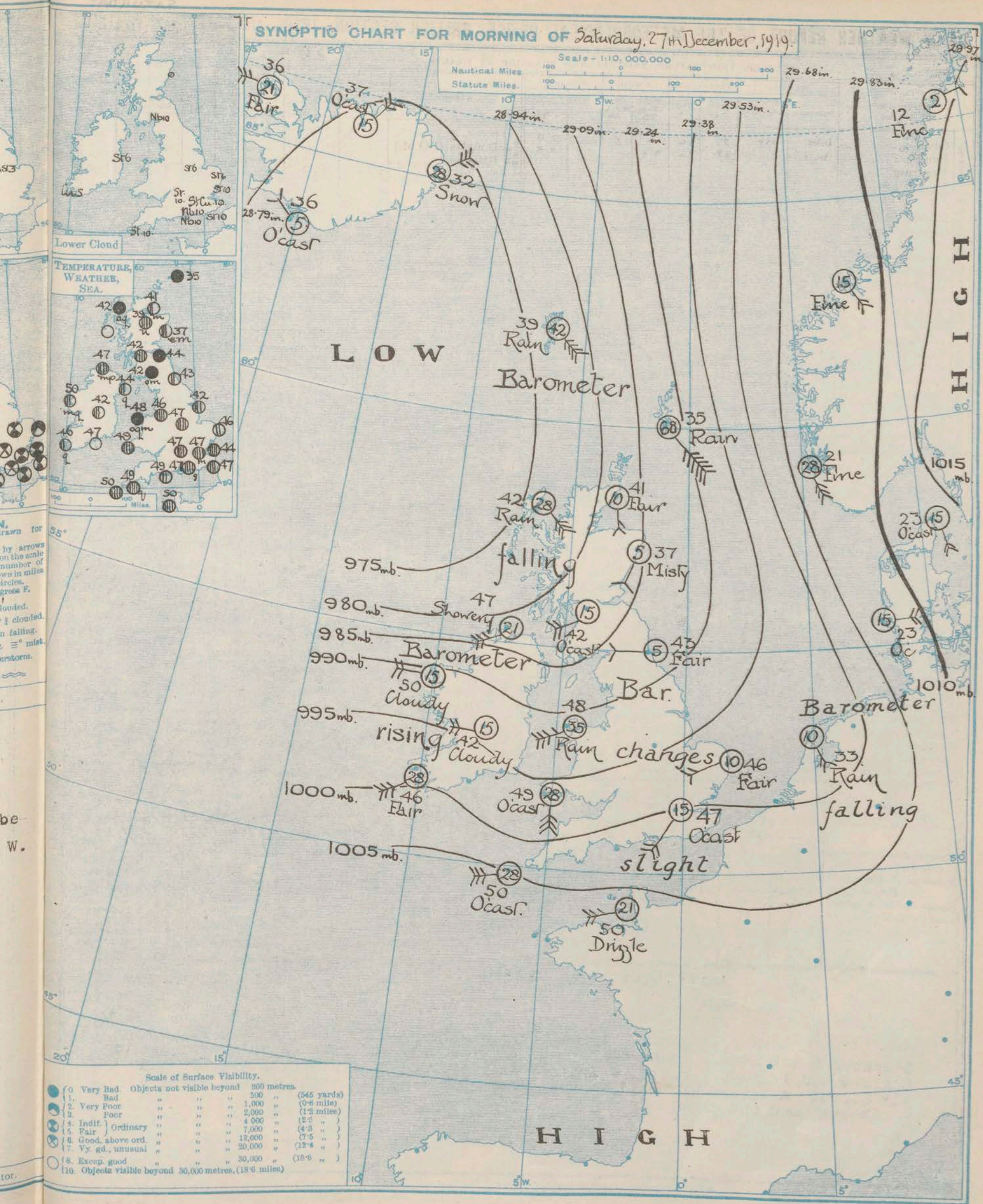
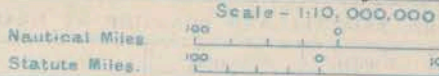
| Districts.                   | Forecasts for the 24 hours commencing 3 p.m. Saturday, 27th December, 1919 | Further Outlook. |
|------------------------------|----------------------------------------------------------------------------|------------------|
| 1. S.E. England              |                                                                            |                  |
| 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. Scot-<br>land  |                                                                            |                  |
| 15. Hebrides                 |                                                                            |                  |
| 16. Orkneys and<br>Shetlands |                                                                            |                  |
| 17. N.W. Ireland             |                                                                            |                  |
| 18. N.E. Ireland             |                                                                            |                  |
| 19. S.E. Ireland             |                                                                            |                  |
| 20. S.W. Ireland             |                                                                            |                  |

Wind between SW. and W., or NW. moderate or strong, high at times locally. Variable cloud, some rain or showers. Intervals of fair weather with good visibility.

Very unsettled weather with winds mainly between SW. and W.



SYNOPTIC CHART FOR MORNING OF Saturday, 27th December, 1919.



#### Scale of Surface Visibility.

|       | Very Bad.                                          | Objects not visible beyond | 200 metres. |             |
|-------|----------------------------------------------------|----------------------------|-------------|-------------|
| (1.)  | Bad                                                | " " "                      | 500 "       | (545 yards) |
| (2.)  | Very Poor                                          | " " "                      | 1,000 "     | (0.6 mile)  |
| (3.)  | Poor                                               | " " "                      | 2,000 "     | (1.2 miles) |
| (4.)  | Indist.                                            | " " "                      | 4,000 "     | (2.5 " )    |
| (5.)  | Pair } Ordinary                                    | " " "                      | 7,000 "     | (4.3 " )    |
| (6.)  | Good, above ord.                                   | " " "                      | 12,000 "    | (7.5 " )    |
| (7.)  | Vy. gd., unusual                                   | " " "                      | 20,000 "    | (12.4 " )   |
| (8.)  | Excep. good                                        | " " "                      | 30,000 "    | (18.6 " )   |
| (10.) | Objects visible beyond 30,000 metres, (18.6 miles) |                            |             |             |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 3618

SATURDAY  
27<sup>th</sup> December.

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 26 <sup>TH</sup> |                        |           |            |              |          |                 |                                         |                    |               |                       |        |            |          |              |                 |                                         |                    |           |  |
|------------------------------------------------------------------------------------|------------------------|-----------|------------|--------------|----------|-----------------|-----------------------------------------|--------------------|---------------|-----------------------|--------|------------|----------|--------------|-----------------|-----------------------------------------|--------------------|-----------|--|
| STATIONS.                                                                          |                        | WEATHER.  |            | TEMPERATURE. |          | Rainfall.       |                                         | SUNSHINE.          |               | STATIONS.             |        | WEATHER.   |          | TEMPERATURE. |                 | Rainfall.                               |                    | SUNSHINE. |  |
|                                                                                    |                        | Forenoon. | Afternoon. | Max. °F.     | Min. °F. | Night. 17h-24h. | Day. 25 <sup>TH</sup> -26 <sup>TH</sup> | Sunrise to Sunset. | Forenoon.     |                       |        | Afternoon. | Max. °F. | Min. °F.     | Night. 17h-24h. | Day. 25 <sup>TH</sup> -26 <sup>TH</sup> | Sunrise to Sunset. |           |  |
| Scotland.                                                                          | Oban ... ..            | b. bc.    | osr        | 38           | 26       | -               | 3                                       | 0.0                | England, N.W. | Douglas (I.O.M.)      |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Banff ... ..           | bc. c.    | c. o       | 38           | 24       | 0.1             | -                                       | 0.5                |               | Blackpool ... ..      |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Montrose ... ..        |           |            |              |          |                 |                                         |                    |               | Southport ... ..      | bc. c. | o. or      | 40       | 30           | -               | 3                                       |                    | 0.0       |  |
|                                                                                    | St. Andrews ... ..     | x         | r          | 36           | 22       | -               | 1                                       | 0.0                |               |                       |        |            |          |              |                 |                                         |                    |           |  |
| England, N.E.                                                                      | Harrogate ... ..       | o         | os         | 33           | 27       | -               | 1                                       | 0.0                | Midlands.     | Buxton ... ..         |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Skegness ... ..        |           |            |              |          |                 |                                         |                    |               | Leamington Spa ... .. | or     | or         | 43       | 32           | -               | 5                                       |                    | 0.0       |  |
|                                                                                    |                        |           |            |              |          |                 |                                         |                    |               | Malvern ... ..        |        |            |          |              |                 |                                         |                    |           |  |
| England, E.                                                                        | Felixstowe ... ..      |           |            |              |          |                 |                                         |                    | Wales.        | Rhyl ... ..           | b. o.  | o. or      | 43       | 33           | -               | 0.1                                     |                    | 0.0       |  |
|                                                                                    | Walton-on-Naze ... ..  |           |            |              |          |                 |                                         |                    |               | Colwyn Bay ... ..     |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Southend-on-Sea ... .. |           |            |              |          |                 |                                         |                    |               | Llandudno ... ..      | or     | or         | 47       | 36           | 0.4             | 1                                       |                    | 0.0       |  |
|                                                                                    | Lowestoft ... ..       | b. bc.    | bc. c. o.  | 38           | 28       | 1               | -                                       | 4.3                |               | Aberystwyth ... ..    | no. c. | c. o       | 48       | 43           | -               | -                                       |                    | 0.0       |  |
| England, S.E.                                                                      | Margate ... ..         |           |            |              |          |                 |                                         |                    | England, S.W. | Weymouth ... ..       |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Ramsgate ... ..        |           |            |              |          |                 |                                         |                    |               | Teignmouth ... ..     |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Folkestone ... ..      | o.        | c. o       | ?            | ?        | -               | -                                       | ?                  |               | Torquay ... ..        | or     | or         | 49       | 35           | 0.2             | 8                                       |                    | 0.0       |  |
|                                                                                    | Hastings ... ..        | bc. o     | or         | 45           | 32       | 1               | 2                                       | 1.1                |               | Paignton ... ..       | odf    | or         | 50       | 33           | -               | 8                                       |                    | 0.0       |  |
|                                                                                    | Eastbourne ... ..      | bc.       | or         | 47           | 31       | 0.1             | 4                                       | 1.1                |               | Penzance ... ..       |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Brighton ... ..        |           |            |              |          |                 |                                         |                    |               | Newquay ... ..        | omr    | omr        | 51       | 42           | 2               | 8                                       |                    | 0.0       |  |
|                                                                                    | Worthing ... ..        | c. o.     | ohr        | 46           | 30       | -               | 4                                       | 0.1                |               | Bude ... ..           |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Littlehampton ... ..   | -         | -          | 47           | ?        | 1               | 4                                       | 0.5                |               | Ilfracombe ... ..     |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Bournemouth ... ..     |           |            |              |          |                 |                                         |                    |               | Weston-s-Mare ... ..  |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    | Tunbridge Wells ... .. | c. o      | o. or      | 43           | 28       | -               | 3                                       | 0.3                |               |                       |        |            |          |              |                 |                                         |                    |           |  |
|                                                                                    |                        |           |            |              |          |                 |                                         |                    |               |                       |        |            |          |              |                 |                                         |                    |           |  |

| STATIONS.                 | SUMMARIES FOR PAST 24 HOURS. |             |          |           |        |                       |                       |                              |                 |                   | BEAUFORT NOTATION. |                                                    | THE BEAUFORT SCALE OF WIND FORCE.                                                                                                |                     |               |
|---------------------------|------------------------------|-------------|----------|-----------|--------|-----------------------|-----------------------|------------------------------|-----------------|-------------------|--------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|
|                           | WEATHER.                     |             |          |           |        | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min.<br>on<br>Grass.<br>° F. | RAINFALL.       |                   |                    |                                                    |                                                                                                                                  |                     |               |
|                           | 7h-12h.                      | 12h-18h.    | 18h-24h. | 24h-7h.   | 1h-7h. |                       |                       |                              | Day.<br>7h-18h. | Night.<br>18h-7h. |                    |                                                    |                                                                                                                                  |                     |               |
| †Houton Bay (Orkney)...   |                              |             |          |           | bccorm | 44                    | 15                    | 31                           | 1               | 13                | 0.0                | b blue sky (not more than a quarter covered).      | No.                                                                                                                              | Limits of Velocity. |               |
| †Eskdalemuir ...          | or. c.                       | osm. or sm. | osm. bc. |           | bccorm |                       |                       |                              |                 |                   |                    | bc sky partly cloudy (one half covered).           | Statute miles per hour.                                                                                                          | Metres per second.  |               |
| †Stranraer ...            |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | c generally cloudy (three quarters covered).       | 0                                                                                                                                | Less than 1         | Less than 0.3 |
| †Lough Foyle ...          |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | d drizzle, or fine rain.                           | 1                                                                                                                                | 1-8                 | 0.3-1.5       |
| †Valencia (Cahirveen) ... | or. od.                      | odf         |          | bccp      |        | 54                    | 46                    | 42                           | 16              | 2                 | 0.0                | e wet air without rain falling.                    | 2                                                                                                                                | 4-7                 | 1.8-3.3       |
| †Anglesey (Llangefni) ... |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | f fog. g gloom.                                    | 3                                                                                                                                | 8-12                | 3.4-5.4       |
| †Falmouth ...             | or. or.                      | omg.        | bc. or   | oeq       |        | 51                    | 42                    | 41                           | 17              | 1                 | 0.0                | h hail. i lightning.                               | 4                                                                                                                                | 13-18               | 5.5-7.9       |
| †Calshot (Hants) ...      |                              |             |          | p.        |        | 51                    | 38                    |                              |                 |                   |                    | m mist.                                            | 5                                                                                                                                | 19-24               | 8.0-10.7      |
| †Capel (Folkestone)...    | bc. c. f.                    | c. or.      |          |           |        |                       |                       |                              |                 |                   |                    | o overcast sky.                                    | 6                                                                                                                                | 25-31               | 10.8-13.8     |
| Aberdeen ...              | bc. z. bc.                   | bc. c. or.  |          | oeq       |        | 41                    | 25                    | 32                           | -               | 7                 | 0.0                | p passing showers.                                 | 7                                                                                                                                | 32-38               | 13.9-17.1     |
| †East Fortune ...         | bc. o. f.                    | bc. c. r.   |          |           |        |                       |                       |                              |                 |                   |                    | q squalls.                                         | 8                                                                                                                                | 39-46               | 17.2-20.7     |
| †Flamborough Hd. ...      | c. o.                        |             |          |           |        |                       |                       |                              |                 |                   |                    | r rain.                                            | 9                                                                                                                                | 47-54               | 20.8-24.4     |
| †Felixstowe ...           | f. or.                       | bc.         | bc. u.   | bc. p.    |        | 47                    | 32                    |                              |                 |                   |                    | rs sleet, i.e., rain and snow together.            | 10                                                                                                                               | 55-63               | 24.5-28.1     |
| †Cranwell (Lincs) ...     | bc. c. b. o.                 | a. r.       | bc. c.   | bc. c. o. |        | 46                    | 28                    |                              |                 |                   |                    | s snow.                                            | 11                                                                                                                               | 64-76               | 28.6-33.5     |
| †Bedford ...              |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | t thunder.                                         | 12                                                                                                                               | Above 76            | 33.6 or above |
| Benson ...                | bc. o.                       | or          |          | or        |        | 49                    | 30                    | 32                           | 3               | 2                 |                    | u ugly, threatening sky.                           | Suffixes 0.1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity. |                     |               |
| London (Kew Obsy.) ...    | bc. or.                      | or          |          | or        |        | 49                    | 32                    | 7                            | 2               | 5                 | 0.0                | v unusual visibility.                              |                                                                                                                                  |                     |               |
|                           |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | w dew.                                             | SYMBOLS—<br>Aurora ☀ Solar halo ☼<br>Rime ❄ Lunar halo ☾<br>Glazed frost ❄ Solar corona ☼<br>Glazed roads ☼ Lunar corona ☾       |                     |               |
|                           |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | x hoar frost.                                      |                                                                                                                                  |                     |               |
|                           |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | y dry air; humidity less than 60 per cent.         |                                                                                                                                  |                     |               |
|                           |                              |             |          |           |        |                       |                       |                              |                 |                   |                    | z dust haze; the turbid atmosphere of dry weather. |                                                                                                                                  |                     |               |

| LONDON.<br>OBSERVATIONS.                  |           | WEATHER. |            |       | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>in. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %         |                                                                                           | SOUTH KENSINGTON.<br>(Meteorological Office).                         | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |                                                 |                                                                    |                                                                    |                                                              |
|-------------------------------------------|-----------|----------|------------|-------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|--------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|
|                                           |           | Morning  | Afternoon  | Night |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T.    | 9 h.<br>G.M.T.                                                                            |                                                                       | Stations.                                                                                               | Sunrise.                                        | Noon.                                                              | Sunset.                                                            |                                                              |
|                                           |           |          |            |       |                       |                       |                           |                       |                                       |                    |                                                                                           |                                                                       |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |
| 24 HOURS ENDED 9H G.M.T. 27 <sup>th</sup> |           |          |            |       |                       |                       |                           |                       |                                       | YESTERDAY. TO-DAY. |                                                                                           | 27 <sup>th</sup> & 28 <sup>th</sup> December 1919.                    |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |
| Greenwich (Royal Observatory)             | o         | or       | roc. b. o  | 50    | 31                    | 39                    | 6                         | 0.3                   | 97                                    | 79                 | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Total ..... 67 ..... Joules.<br>Average Rate. 2.4<br>Maximum Rate. 11 | Yarmouth...<br>Greenwich<br>Wick<br>Valencia ...                                                        | {                                               | 8.6<br>8.6<br>8.8<br>9.5<br>9.5<br>8.51<br>8.51                    | 11.54<br>11.55<br>12.1<br>12.2<br>12.13<br>12.17<br>12.42<br>12.43 | 3.43<br>3.44<br>3.55<br>3.56<br>3.21<br>3.22<br>4.35<br>4.35 |
| City (Bunhill Row) ...                    | -         | -        | *          | *     | *                     | *                     | *                         | 0.0                   | *                                     | *                  |                                                                                           |                                                                       |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |
| Westminster (St. James's Park)            | *         | *        | *          | *     | *                     | *                     | *                         | 0.1                   | *                                     | *                  |                                                                                           |                                                                       |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |
| " (Admiralty Arch)                        | cm. or m. | omr      | omf. or m. | 49    | 36                    | *                     | 7                         | 0.0                   | 92                                    | 85                 |                                                                                           |                                                                       |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |
| Camden Sq. (British Rainfall)             | -         | -        | *          | 49    | 33                    | 31                    | 8                         | *                     | *                                     | 83                 | Total ..... 67 ..... Joules.<br>Average Rate. 2.4<br>Maximum Rate. 11                     | Yarmouth...<br>Greenwich<br>Wick<br>Valencia ...                      | {                                                                                                       | 8.6<br>8.6<br>8.8<br>9.5<br>9.5<br>8.51<br>8.51 | 11.54<br>11.55<br>12.1<br>12.2<br>12.13<br>12.17<br>12.42<br>12.43 | 3.43<br>3.44<br>3.55<br>3.56<br>3.21<br>3.22<br>4.35<br>4.35       |                                                              |
| Kensington Palace ...                     | or        | or       | *          | 50    | 31                    | 42                    | 8                         | *                     | 96                                    | 83                 |                                                                                           |                                                                       |                                                                                                         |                                                 |                                                                    |                                                                    |                                                              |

## NOTES ON THE WEATHER OF YESTERDAY.

Rain fell generally, heavily in many places. Pembroke had 71 mm., Blacksod Point 24mm. Temperature rose considerably and reached 50° over most of England and Ireland. Sunshine records were poor generally, but Lowestoft had 4.3 hours. A severe SE. gale was experienced during the night in the extreme north-east and the Shetlands.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

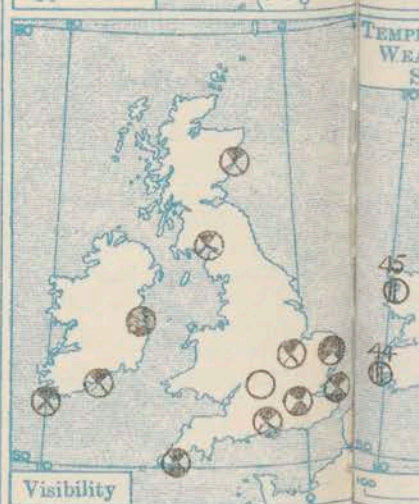
No 21,220 B ... SUNDAY, 28<sup>TH</sup> DECEMBER 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 19H. |        |             |        |       |          |            |           |              |            |            |       |                        |          |                                 |              |          |          |          |            |        |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------|--------|-------------|--------|-------|----------|------------|-----------|--------------|------------|------------|-------|------------------------|----------|---------------------------------|--------------|----------|----------|----------|------------|--------|-----------------|-------------|------------|------------|-------|--------------|------|-------------------------------------|--|--|--|--|--|--|--|--|--|--|
| STATIONS.                                                               | BAROM. | †           | WIND.  |       | Weather. | TEMP.      | Humidity. | Visibility.  | Height     | Low Cloud. |       | Upper Cloud.           |          | Sea.                            | BAROM.       | †        | WIND.    |          | Weather.   | TEMP.  | Humidity.       | Visibility. | Height     | Low Cloud. |       | Upper Cloud. |      | Sea.                                |  |  |  |  |  |  |  |  |  |  |
|                                                                         | at     | Change      | Direc. | Force |          | °F.        | %         | 0-10.        | Feet.      | Form.      | Amt.  | Form.                  | Amt.     |                                 | M.S.L.       | Change   | Direc.   | Force    |            | °F.    | %               | 0-10.       | Feet.      | Form.      | Amt.  | Form.        | Amt. |                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                         | m.b.   | in 3 hours. | 0-12.  | 0-10. |          | 0-10.      | 0-10.     | 0-10.        | 0-9.       |            |       |                        |          |                                 |              |          |          |          |            |        |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| 13H. G.M.T. OF 27 <sup>TH</sup>                                         |        |             |        |       |          |            |           |              |            |            |       |                        |          | 19H. G.M.T. OF 27 <sup>TH</sup> |              |          |          |          |            |        |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| †Houton B.(Orkney)                                                      | 988.7  | +3          | WSW    | 0     | C        | 37         | 87        | 7            | -          | St. Cu     | 7     | -                      | -        | *                               | 993.3        | +5       | WSW      | 4        | orgsm      | 34     | 92              | 4           | -          | Nb         | 10    | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Eskdalemuir ...                                                        | 988.7  | +3          | WSW    | 0     | C        | 37         | 87        | 7            | -          | St. Cu     | 7     | -                      | -        | *                               | 993.3        | +5       | WSW      | 4        | orgsm      | 34     | 92              | 4           | -          | Nb         | 10    | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Stranraer ...                                                          | 988.7  | +3          | WSW    | 0     | C        | 37         | 87        | 7            | -          | St. Cu     | 7     | -                      | -        | *                               | 993.3        | +5       | WSW      | 4        | orgsm      | 34     | 92              | 4           | -          | Nb         | 10    | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Lough Foyle ...                                                        | 988.7  | +3          | WSW    | 0     | C        | 37         | 87        | 7            | -          | St. Cu     | 7     | -                      | -        | *                               | 993.3        | +5       | WSW      | 4        | orgsm      | 34     | 92              | 4           | -          | Nb         | 10    | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Valencia (Cahire'n)                                                    | 1001.0 | 0           | W      | 5     | C        | 46         | 75        | 8            | 3-4000     | Cu         | 4     | C. Cu                  | 3        | 4                               | 1000.2       | 0        | WSW      | 5        | 0          | 46     | 75              | 8           | 2-3000     | St. Cu     | 5     | A. St        | 5    | 4                                   |  |  |  |  |  |  |  |  |  |  |
| †Anglesey (Llangefni)                                                   | 1004.1 | +1          | WNW    | 5     | rmq      | 48         | 87        | 3            | -          | Nb         | 10    | -                      | -        | *                               | 1003.8       | 0        | W        | 2        | om         | 47     | 75              | 3           | -          | St         | 10    | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Falmouth ...                                                           | 1000.8 | 0           | W      | 3     | r        | 46         | 92        | 5            | 1-1500     | Nb         | 10    | -                      | -        | 4                               | 1003.8       | +2       | W        | 2        | 0          | 45     | 92              | 4           | 1 1/2-2000 | St         | 10    | -            | -    | 3                                   |  |  |  |  |  |  |  |  |  |  |
| †Calshot (Hants) ...                                                    | 997.9  | -6          | WSW    | 5     | 0        | 48         | 87        | 6            | 1-1500     | St. Cu     | 5     | -                      | -        | -                               | 1000.1       | +3       | W        | 4        | 0          | 40     | 75              | 8           | 2-3000     | St. Cu     | 6     | A. St        | 1    | -                                   |  |  |  |  |  |  |  |  |  |  |
| †Capel (Folkestone)                                                     | 992.4  | +3          | W      | 3     | 0        | 40         | 75        | 7            | -          | -          | -     | A. St                  | 9        | 4                               | 987.1        | +5       | WSW      | 3        | 3          | 39     | 75              | 6           | -          | -          | A. St | 7            | 4    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Aberdeen ...                                                           | 985.1  | +3          | W      | 6     | C        | 41         | 82        | 5            | 2-3000     | St. Cu     | 5     | A. St                  | 3        | -                               | 988.8        | +3       | W        | 4        | bc         | 38     | 82              | -           | 5-7000     | St. Cu     | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †East Fortune ...                                                       | 988.8  | 0           | W      | 7     | q        | 33         | 75        | 8            | 5-7000     | St. Cu     | 2     | A. St                  | 2        | -                               | 994.8        | +4       | W        | 5        | b          | 38     | 82              | 7           | -          | -          | -     | -            | *    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Flamborough Head                                                       | 987.0  | -3          | NW     | 4     | 0        | 49         | 87        | 5            | 1-1500     | St. Cu     | 5     | -                      | -        | 4                               | 999.8        | +4       | NW       | 4        | bc         | 43     | 87              | 4           | 1-1500     | St. Cu     | 6     | -            | -    | 4                                   |  |  |  |  |  |  |  |  |  |  |
| †Felixstowe ...                                                         | 994.3  | +3          | W      | 5     | bc       | 46         | 82        | 8            | 1 1/2-2000 | Nb         | 2     | A. St                  | 1        | -                               | 997.2        | +2       | W        | 5        | b          | 39     | 82              | 7           | -          | -          | C. St | 2            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Cranwell (Lines)                                                       | 998.4  | 0           | WSW    | 2     | C        | 47         | 75        | 5            | -          | -          | -     | -                      | -        | -                               | 1000.7       | +2       | WSW      | 2        | b          | 41     | 82              | 6           | -          | St. Cu     | 2     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Bedford ...                                                            | 998.4  | -1          | W      | 4     | om       | 48         | 75        | 2            | 1 1/2-2000 | F. Cu      | 7     | A. Cu                  | 2        | -                               | 1000.8       | +3       | W        | 2        | bcg        | 44     | 75              | 5           | -          | -          | A. Cu | 5            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| Benson ...                                                              | 998.4  | -1          | W      | 4     | om       | 48         | 75        | 2            | 1 1/2-2000 | F. Cu      | 7     | A. Cu                  | 2        | -                               | 1000.8       | +3       | W        | 2        | bcg        | 44     | 75              | 5           | -          | -          | A. Cu | 5            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| London (Kew Ob.)                                                        | 998.4  | -1          | W      | 4     | om       | 48         | 75        | 2            | 1 1/2-2000 | F. Cu      | 7     | A. Cu                  | 2        | -                               | 1000.8       | +3       | W        | 2        | bcg        | 44     | 75              | 5           | -          | -          | A. Cu | 5            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| 1H. G.M.T. OF 28 <sup>TH</sup>                                          |        |             |        |       |          |            |           |              |            |            |       |                        |          | 7H. G.M.T. OF 28 <sup>TH</sup>  |              |          |          |          |            |        |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| †Houton B.(Orkney)                                                      | 995.7  | +1          | WSW    | 4     | bc       | 34         | 87        | 7            | -          | St         | 5     | -                      | -        | *                               | 998.4        | +3       | SSW      | 2        | 0          | 34     | 92              | 6           | -          | St         | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Eskdalemuir ...                                                        | 995.7  | +1          | WSW    | 4     | bc       | 34         | 87        | 7            | -          | St         | 5     | -                      | -        | *                               | 998.4        | +3       | SSW      | 2        | 0          | 34     | 92              | 6           | -          | St         | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Stranraer ...                                                          | 995.7  | +1          | WSW    | 4     | bc       | 34         | 87        | 7            | -          | St         | 5     | -                      | -        | *                               | 998.4        | +3       | SSW      | 2        | 0          | 34     | 92              | 6           | -          | St         | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Lough Foyle ...                                                        | 995.7  | +1          | WSW    | 4     | bc       | 34         | 87        | 7            | -          | St         | 5     | -                      | -        | *                               | 998.4        | +3       | SSW      | 2        | 0          | 34     | 92              | 6           | -          | St         | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Valencia (Cahire'n)                                                    | 1001.2 | 0           | W      | 2     | bc       | 44         | *         | *            | *          | *          | *     | *                      | *        | 4                               | 1000.0       | -2       | NE       | 1        | C          | 41     | 92              | 7           | -          | -          | A. St | 7            | 4    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Anglesey (Llangefni)                                                   | 1001.2 | -2          | SW     | 2     | b        | 45         | 98        | 5            | -          | SC         | 3     | -                      | -        | *                               | 1005.3       | +1       | WSW      | 3        | bc         | 43     | 92              | 5           | -          | St         | 5     | -            | -    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Falmouth ...                                                           | 1001.1 | -3          | -      | 0     | 0        | 43         | 92        | 2            | 1 1/2-2000 | St         | 10    | -                      | -        | 3                               | 7            | +3       | -        | 0        | 38         | 98     | 3               | 1 1/2-2000  | St         | 10         | -     | -            | 1    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Calshot (Hants) ...                                                    | 1003.0 | +3          | W      | 5     | cq       | 40         | 82        | 7            | 2-3000     | St. Cu     | 6     | A. St                  | 1        | ?                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Capel (Folkestone)                                                     | 995.6  | +3          | -      | 0     | 3        | 30         | 92        | 6            | -          | -          | -     | -                      | -        | *                               | 995.6        | +3       | -        | 0        | 3          | 30     | 92              | 6           | -          | -          | -     | -            | 3    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Aberdeen ...                                                           | 998.6  | +3          | SW     | 3     | b        | 35         | 87        | 6            | -          | -          | -     | -                      | -        | *                               | 1002.7       | +2       | NNW      | 2        | 3          | 37     | 92              | 4           | 1-1500     | St. Cu     | 7     | -            | -    | 2                                   |  |  |  |  |  |  |  |  |  |  |
| †East Fortune ...                                                       | 1001.8 | +1          | WNW    | 3     | bc       | 40         | 98        | 4            | 1-1500     | St         | 6     | -                      | -        | -                               | 1001.7       | +3       | WSW      | 3        | b          | 33     | 98              | 6           | 2-3000     | St         | 1     | C. St        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Flamborough Hd.                                                        | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.7       | +2       | W        | 1        | b          | 35     | 98              | 8           | -          | -          | -     | -            | *    |                                     |  |  |  |  |  |  |  |  |  |  |
| †Felixstowe ...                                                         | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Cranwell (Lines)                                                       | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| †Bedford ...                                                            | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| Benson ...                                                              | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| London ...                                                              | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| (M.O. at 1st)                                                           | 997.8  | +1          | WSW    | 3     | b        | 36         | 92        | 4            | 2-3000     | St         | 2     | -                      | -        | -                               | 1003.9       | +4       | SW       | 1        | bcmx       | 36     | 98              | 5           | 2-3000     | St         | 1     | A. Cu        | 3    | *                                   |  |  |  |  |  |  |  |  |  |  |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 19H                             |        |             |        |       |          |            |           |              |            |            |       |                        |          |                                 |              |          |          |          |            |        |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| STATIONS.                                                               | BAROM. | TEMP.       | WIND.  |       | Weather. | BAROMETER. |           | TEMPERATURE. |            | WIND.      |       | Direc. of Upper Cloud. | Weather. | Sea.                            | Rainfall mm. | TEMP.    |          | WEATHER. |            |        | Sunshine Hours. |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                         | at     | Change      | Direc. | Force |          | at         | Change    | Temp.        | Change     | Direc.     | Force |                        |          |                                 |              | Max. °F. | Min. °F. | Morning. | Afternoon. | Night. |                 |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
|                                                                         | M.S.L. | in 3 hours. | 0-12.  | 0-10. |          | 0-10.      | 0-10.     | 0-10.        | 0-10.      | 0-10.      | 0-10. |                        |          |                                 |              | 0-10.    | 0-10.    | 0-10.    | 0-10.      | 0-10.  |                 | 0-10.       | 0-10.      | 0-10.      | 0-10. |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| 18H. G.M.T. OF 27 <sup>TH</sup>                                         |        |             |        |       |          |            |           |              |            |            |       |                        |          | 7H. G.M.T. OF 28 <sup>TH</sup>  |              |          |          |          |            |        |                 |             |            |            |       |              |      | 24 HOURS ENDED 7H. 28 <sup>TH</sup> |  |  |  |  |  |  |  |  |  |  |
| Lerwick ...                                                             | 989.9  | 36          | SE     | 11    | r        | 997.4      | +3        | 37           | +2         | SE         | 10    | -                      | omq      | 6                               | 1            | 38       | 35       | omrsq    | omq        | omq    | 0.0             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Stornoway ...                                                           | 985.0  | 37          | WSW    | 1     | b        | 989.8      | +3        | 41           | -1         | SW         | 1     | -                      | bc       | 3                               | 8            | 42       | 33       | cot      | cp.b       | bc     | 0.0             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Castlebay(Barras)                                                       | 987.9  | 43          | WSW    | 5     | b        | 993.0      | +2        | 43           | -          | W          | 3     | -                      | oh       | 4                               | 3            | 45       | 39       | oh.c     | ch.b       | b.oh   | 0.9             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Glasgow ...                                                             | 991.3  | 38          | SW     | 3     | b        | 997.4      | +3        | 38           | -4         | WSW        | 2     | -                      | r        | 7                               | 7            | 42       | 34       | orps     | consp      | rsp.cp | 0.5             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Malin Head ...                                                          | 990.2  | 41          | W      | 5     | bc       | 994.3      | +3        | 47           | 0          | SW         | 3     | SW                     | bc       | 3                               | 7            | 47       | 37       | cp       | c          | cp     | 1.4             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Blackod Point                                                           | 994.7  | 44          | NW     | 4     | bcq      | 997.0      | +1        | 45           | -5         | NW         | 2     | -                      | bc       | 2                               | 5            | 52       | 37       | bcq      | bcq        | bc.b   | *               |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Roche's Point...                                                        | 1001.1 | 44          | WSW    | 1     | 0        | 1001.9     | 0         | 42           | -5         | -          | 0     | -                      | 0        | 3                               | -            | 48       | 38       | b.bc     | bc.0       | b.0    | *               |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Birr Castle ...                                                         | 997.8  | 39          | W      | 1     | C        | 998.9      | *         | 38           | -4         | W          | 1     | -                      | 0        | *                               | 1            | 43       | 32       | cq       | c          | c.0    | 2.5             |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |
| Donaghadee ...                                                          | 994.7  | 37          | WSW    | 4     | bym      | 998.5      | +2        | 37           | -7         | WSW        | 4     | W                      | bcq      | 4                               | 1            | 44       | 35       | bcq      | bym        | bym    | *               |             |            |            |       |              |      |                                     |  |  |  |  |  |  |  |  |  |  |



# SUMMARY OF CONDITIONS AT 7 A.M. Sunday, 28th December, 1919.

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation.    | Visibility. | Sea.    |
|------------------------------|-----------------------------|--------------|--------------------------------------|-------------|---------|
| 1. S.E. England              | W. 0-5.                     | r.cold.      | Fair or fine; local mist.            | Fair.       | Slight  |
| 2. E. England                | SW-NW 0-10.                 | "            | Fair or fine; local mist<br>or haze. | "           | "       |
| 3. E. Midlands               | SW-W 0-5.                   | "            | Fine.                                | Good.       | -       |
| 4. W. Midlands               | SW-W 0-5.                   | "            | Fine.                                | "           | -       |
| 5. S.W. England              | SW-NW 0-10.                 | Mod.         | Fair.                                | Fair.       | Mod.    |
| 6. South Wales               | W. 0-5.                     | "            | Cloudy.                              | "           | "       |
| 7. North Wales               | WSW. 5-15.                  | "            | Fine.                                | Ord.        | Smooth. |
| 8. N.W. England              | W. 5-10.                    | "            | Fine.                                | "           | Slight. |
| 9. N. Midlands               | SW-W 0-5.                   | r.cold.      | Fair or fine.                        | Good.       | -       |
| 10. N.E. England             | SW-W. 0-10.                 | Mod.         | Fair or fine; local mist.            | Fair.       | Slight. |
| 11. E. Scotland              | Var. 0-5.                   | r.cold.      | Fine to cloudy, haze<br>locally.     | Good.       | Slight  |
| 12. S.W. Scotland            | SW. 0-5.                    | Mod.         | Dull, some rain.                     | "           | "       |
| 13. Isle of Man              | WSW. 10-15.                 | "            | Fair.                                | Fair.       | Mod.    |
| 14. N. & N.W. Scot-<br>land  | Var. 0-5.                   | "            | Fair or cloudy.                      | Ord.        | Slight. |
| 15. Hebrides                 | SW. 0-5.                    | "            | Fair.                                | "           | "       |
| 16. Orkneys and<br>Shetlands | SE 25-55.                   | "            | Dull, some mist, squally.            | Var.        | Rough.  |
| 17. N.W. Ireland             | SW-NW 5-10.                 | "            | Fair.                                | Ord.        | Slight. |
| 18. N.E. Ireland             | WSW. 10-15.                 | r.cold.      | Fair, squally.                       | Fair.       | Mod.    |
| 19. S.E. Ireland             | SW-W. 0-10.                 | Mod.         | Fair to overcast.                    | Var.        | Slight. |
| 20. S.W. Ireland             | Var. 0-5.                   | r.cold.      | Dull.                                | Good.       | Mod.    |



## GENERAL INFERENCE from observations received up to 9 a.m.

There are indications of a new depression off S.W. Ireland which will probably move E. or N.E. and cause the winds to back to S.W. and rain to spread over the Kingdom.

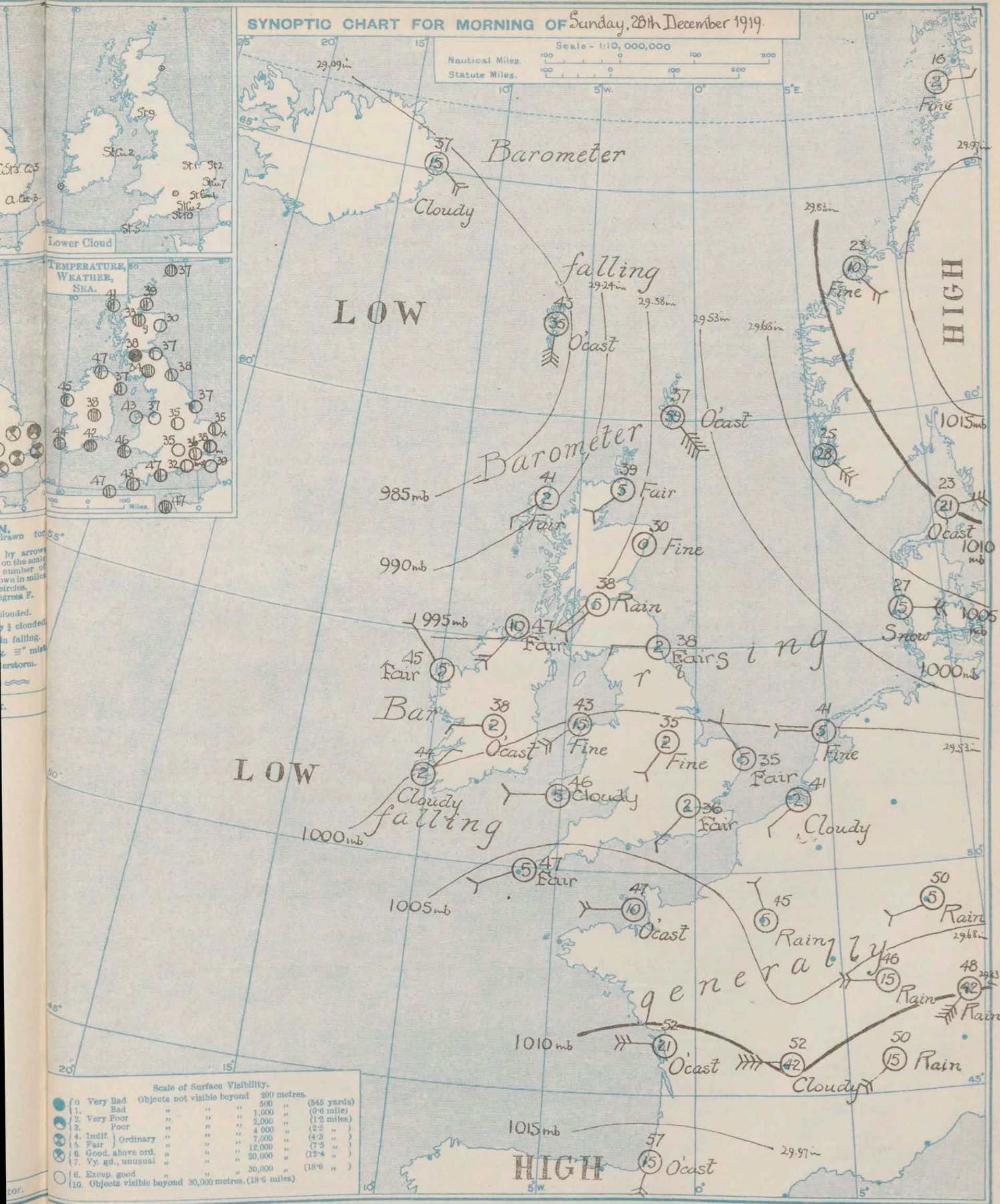
**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five millibars.  
**WIND.**—Direction is shown by arrows flying with the wind. Force, on the scale 0-12, is indicated by the number of feathers. Mean velocity is shown in miles per hour by figures in small circles.  
**TEMPERATURE** is given in degrees F.  
**WEATHER SYMBOLS.**—  
 ○ clear sky. ○ sky 1/4 clouded.  
 ⊙ sky 1/2 clouded. ⊙ sky 3/4 clouded.  
 ⊕ overcast sky. ● rain falling.  
 \* snow. ▲ hail. = fog. ≡ mist.  
 T thunder. F thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

| Districts.                   | Forecasts for the 24 hours commencing 3 p.m. Sunday, 28th December, 1919.                                                                                                            | Further Outlook. |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1. S.E. England              | Wind backing to S.W. or S., light at first, freshening later. Fine at first, becoming dull with some rain later. Visibility fair, deteriorating later. Moderate or mild temperature. |                  |
| 2. E. England                |                                                                                                                                                                                      |                  |
| 3. E. Midlands               |                                                                                                                                                                                      |                  |
| 4. W. Midlands               |                                                                                                                                                                                      |                  |
| 5. S.W. England              | Wind backing to S. and freshening, veering again later. Becoming dull, with some rain. Visibility variable. Rather mild.                                                             |                  |
| 6. South Wales               |                                                                                                                                                                                      |                  |
| 7. North Wales               |                                                                                                                                                                                      |                  |
| 8. N.W. England              | Wind backing to S. or S.E., light to fresh. Fair at first, some rain later. Visibility good then deteriorating. Moderate temperature. Frost locally.                                 |                  |
| 9. N. Midlands               |                                                                                                                                                                                      |                  |
| 10. N.E. England             |                                                                                                                                                                                      |                  |
| 11. E. Scotland              |                                                                                                                                                                                      |                  |
| 12. S.W. Scotland            |                                                                                                                                                                                      |                  |
| 13. Isle of Man              | Wind between S. and S.W., light or moderate generally, remaining strong or a gale in Shetland. Variable sky. Some showers. Visibility variable.                                      |                  |
| 14. N. & N.W. Scot-<br>land  |                                                                                                                                                                                      |                  |
| 15. Hebrides                 |                                                                                                                                                                                      |                  |
| 16. Orkneys and<br>Shetlands | Wind between S.E. and S.W. or W., moderate to strong. Becoming dull with some rain. Visibility variable. Moderate or mild temperature.                                               |                  |
| 17. N.W. Ireland             |                                                                                                                                                                                      |                  |
| 18. N.E. Ireland             |                                                                                                                                                                                      |                  |
| 19. S.E. Ireland             |                                                                                                                                                                                      |                  |
| 20. S.W. Ireland             |                                                                                                                                                                                      |                  |



# SYNOPTIC CHART FOR MORNING OF Sunday, 28th December 1919.

Scale - 1:10,000,000  
Nautical Miles. 100 0 100 200  
Statute Miles. 100 0 100 200



## Scale of Surface Visibility.

|   |                        | 200 metres                 |              |
|---|------------------------|----------------------------|--------------|
| 0 | Very Bad               | Objects not visible beyond | 200 metres   |
| 1 | Bad                    | "                          | 500 "        |
| 2 | Very Poor              | "                          | 1,000 "      |
| 3 | Poor                   | "                          | 2,000 "      |
| 4 | Indist                 | "                          | 4,000 "      |
| 5 | Fair                   | "                          | 7,000 "      |
| 6 | Good, above ord.       | "                          | 12,000 "     |
| 7 | Vy gd., unusual        | "                          | 20,000 "     |
| 8 | Excup. good            | "                          | 30,000 "     |
| 9 | Objects visible beyond | 30,000 metres              | (18.6 miles) |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 3628

Sunday  
28<sup>th</sup> December

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 27 <sup>th</sup> |                        |           |            |              |              |                                        |                                     |                                                |           |               |                       |            |              |              |                                        |                                     |                                                |           |     |
|------------------------------------------------------------------------------------|------------------------|-----------|------------|--------------|--------------|----------------------------------------|-------------------------------------|------------------------------------------------|-----------|---------------|-----------------------|------------|--------------|--------------|----------------------------------------|-------------------------------------|------------------------------------------------|-----------|-----|
| STATIONS.                                                                          |                        | WEATHER.  |            | TEMPERATURE. |              | Rainfall.                              |                                     | SUNSHINE.                                      |           | STATIONS.     |                       | WEATHER.   |              | TEMPERATURE. |                                        | Rainfall.                           |                                                | SUNSHINE. |     |
|                                                                                    |                        | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-12h.<br>26 <sup>th</sup> | Day.<br>9h-12h.<br>27 <sup>th</sup> | Sunrise<br>to Sun-<br>set.<br>27 <sup>th</sup> | Forenoon. |               |                       | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-12h.<br>26 <sup>th</sup> | Day.<br>9h-12h.<br>27 <sup>th</sup> | Sunrise<br>to Sun-<br>set.<br>27 <sup>th</sup> |           |     |
| Scotland.                                                                          | Oban ... ..            | bcp       | bc         | 45           | 33           | 15                                     | 2                                   |                                                | 0.0       | England, N.W. | Douglas (I.O.M.)      |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Banff ... ..           | c.a.      | on.c       | 39           | 35           | 4                                      | 7                                   |                                                | 0.5       |               | Blackpool ... ..      |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Montrose ... ..        |           |            |              |              |                                        |                                     |                                                |           |               | Southport ... ..      | c.b.c      | c.b.c        | 45           | 40                                     | 8                                   | 0.1                                            |           | 3.7 |
|                                                                                    | St. Andrews ... ..     |           |            |              |              |                                        |                                     |                                                |           |               |                       |            |              |              |                                        |                                     |                                                |           |     |
| England, N.E.                                                                      | Harrogate ... ..       |           |            |              |              |                                        |                                     |                                                |           | Midlands.     | Buxton ... ..         |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Skegness ... ..        |           |            |              |              |                                        |                                     |                                                |           |               | Leamington Spa ... .. | *          | *            | 49           | 39                                     | 6                                   | -                                              |           | 3.8 |
|                                                                                    |                        |           |            |              |              |                                        |                                     |                                                |           |               | Malvern ... ..        |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    |                        |           |            |              |              |                                        |                                     |                                                |           |               | Ross on-Wye ... ..    | o.g.b.c    | c.b.c.b      | 49           | 40                                     | 1                                   | 0.1                                            |           | 2.0 |
| England, E.                                                                        | Felixstowe ... ..      | c.g.g.    | bc.g.p     | 47           | 42           | trace                                  | 1                                   |                                                | 1.3       | Wales.        | Rhyl ... ..           |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Walton-on-Naze ... ..  |           |            |              |              |                                        |                                     |                                                |           |               | Colwyn Bay ... ..     |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Southend-on-Sea ... .. |           |            |              |              |                                        |                                     |                                                |           |               | Llandudno ... ..      | c.b        | c.b          | 48           | 43                                     | 2                                   | -                                              |           | 3.0 |
|                                                                                    |                        |           |            |              |              |                                        |                                     |                                                |           |               | Aberystwyth ... ..    |            |              |              |                                        |                                     |                                                |           |     |
| England, S.E.                                                                      | Margate ... ..         |           |            |              |              |                                        |                                     |                                                |           | England, S.W. | Weymouth ... ..       |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Ramsgate ... ..        | *         | o          | 49           | 40           | 5                                      | -                                   |                                                | 0.3       |               | Teignmouth ... ..     |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Folkestone ... ..      | o         | o          | 50           | 44           | 7                                      | -                                   |                                                | 0.0       |               | Torquay ... ..        |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Hastings ... ..        | on.bc     | bc.op      | 51           | 43           | 6                                      | 1                                   |                                                | 1.4       |               | Paignton ... ..       | o.g.       | bc p.c.o.    | 51           | 46                                     | *                                   | *                                              |           | 0.0 |
|                                                                                    | Eastbourne ... ..      | o.c       | c.op.c     | 50           | 45           | 8                                      | 0.2                                 |                                                | 0.8       |               | Penzance ... ..       |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Brighton ... ..        |           |            |              |              |                                        |                                     |                                                |           |               | Newquay ... ..        |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Worthing ... ..        | c.b.c     | r.c        | 49           | 43           | 6                                      | 0.3                                 |                                                | 0.9       |               | Bude ... ..           |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Littlehampton ... ..   | *         | bc.r.bc    | 49           | 41           | 8                                      | 0.3                                 |                                                | 1.0       |               | Ilfracombe ... ..     |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Bournemouth ... ..     | *         | *          | 52           | 40           | 12                                     | 1                                   |                                                | 0.6       |               | Weston-s-Mare ... ..  |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    | Tunbridge Wells ... .. | o.c       | op.c.o     | 50           | 42           | 7                                      | 0.3                                 |                                                | 0.0       |               |                       |            |              |              |                                        |                                     |                                                |           |     |
|                                                                                    |                        |           |            |              |              |                                        |                                     |                                                |           |               |                       |            |              |              |                                        |                                     |                                                |           |     |

| STATIONS.                  | SUMMARIES FOR PAST 24 HOURS. |                          |                                           |                        |                 |                 |                     |             |               |             | BEAUFORT NOTATION.<br>b blue sky (not more than a quarter covered).<br>bc sky partly cloudy (one half covered).<br>c generally cloudy (three quarters covered).<br>d drizzle, or fine rain.<br>e wet air without rain falling.<br>f fog. g gloom.<br>h hail. i lightning.<br>m mist.<br>o overcast sky.<br>p passing showers.<br>q squalls.<br>r rain.<br>rs sleet, i.e., rain and snow together.<br>s snow.<br>t thunder.<br>u ugly, threatening sky.<br>v unusual visibility.<br>w dew.<br>x hoar frost.<br>y dry air; humidity less than 60 per cent.<br>z dust haze; the turbid atmosphere of dry weather. | THE BEAUFORT SCALE OF WIND FORCE. |                     |                   |
|----------------------------|------------------------------|--------------------------|-------------------------------------------|------------------------|-----------------|-----------------|---------------------|-------------|---------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------|-------------------|
|                            | WEATHER                      |                          |                                           |                        | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass. ° F. | RAINFALL.   |               | Sun. Hours. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.                               | Limits of Velocity. |                   |
|                            | 7h-18h 27 <sup>th</sup>      | 18h-18h 27 <sup>th</sup> | 18h 27 <sup>th</sup> -1h 28 <sup>th</sup> | 1h-7h 28 <sup>th</sup> |                 |                 |                     | Day. 7h-18h | Night. 18h-7h |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   | Statute miles       | Metres per second |
| †Houton Bay (Orkney)...    | orm.ont                      | c.orsm                   | orm.c.bc.b                                | bc.c.o                 | 38              | 32              | 28                  | 8           | 2             | 0.3         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Less than 1                       | Less than 0.3       |                   |
| Eskdalemuir ... ..         |                              |                          |                                           |                        |                 |                 |                     |             |               |             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1-8                               | 0.3-1.5             |                   |
| †Stranraer ... ..          |                              |                          |                                           |                        |                 |                 |                     |             |               |             | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4-7                               | 1.6-3.3             |                   |
| †Lough Foyle ... ..        |                              |                          |                                           |                        |                 |                 |                     |             |               |             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8-12                              | 3.4-5.4             |                   |
| Valencia (Cahirciveen) ... | cp                           | o                        | cp.bc.c                                   |                        | 47              | 39              | 38                  | 1           | -             | 2.1         | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13-18                             | 5.5-7.6             |                   |
| †Anglesey (Llangefni) ...  |                              |                          |                                           |                        |                 |                 |                     |             |               |             | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 19-24                             | 8.0-10.7            |                   |
| Falmouth ... ..            | rg.cpg                       | opg.om                   | on.bc.b                                   | b.bc                   | 50              | 41              | 36                  | 1           | 2             | 0.4         | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25-31                             | 10.8-13.8           |                   |
| †Calshot (Hants) ... ..    | r                            | r                        | c.a                                       | r                      | 50              | 38              | *                   | *           | *             | *           | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32-38                             | 13.9-17.1           |                   |
| †Capel (Folkestone) ... .. | cp                           | c.op                     | v.c.o                                     |                        |                 |                 | *                   | *           | *             | *           | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39-46                             | 17.2-20.7           |                   |
| Aberdeen ... ..            | ogp.c                        | c.cj                     | c.b.bx                                    |                        | 42              | 30              | 22                  | 4           | -             | 0.0         | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 47-54                             | 20.8-24.4           |                   |
| †East Fortune ... ..       | qrs                          | 3.g                      |                                           |                        |                 |                 | *                   | *           | *             | *           | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 55-63                             | 24.5-25.4           |                   |
| †Flamborough Head ... ..   | qv                           | b.bq                     | b.v                                       |                        |                 |                 | *                   | *           | *             | *           | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 64-75                             | 28.6-33.5           |                   |
| †Felixstowe ... ..         | p.g                          | bc.g                     | bc.c.g                                    | bc.cq                  | 47              | 34              | *                   | *           | *             | *           | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 75                          | 33.6 or above       |                   |
| †Cranwell (Lines) ... ..   | gbc.c                        | bc.b.bc                  | bc.c                                      | b.bc                   | 47              | 32              | *                   | *           | *             | *           | Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 1=heavy. Underlining is used to express continuity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                     |                   |
| †Bedford ... ..            |                              |                          |                                           |                        |                 |                 | *                   | *           | *             | *           | SYMBOLS—                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                     |                   |
| Benson ... ..              | on.bc                        | bc.b                     | b                                         |                        | 48              | 33              | 26                  | 1           | -             | *           | Aurora                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ☉                                 | Solar halo ☉        |                   |
| London (Kew Obsy.) ... ..  | om.c.opg.o                   | o.bc                     | b.bc.m                                    |                        | 50              | 36              | 25                  | 1           | trace         | 0.6         | Rime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ☾                                 | Lunar halo ☾        |                   |
|                            |                              |                          |                                           |                        |                 |                 |                     |             |               |             | Glazed frost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ☉                                 | Solar corona ☉      |                   |
|                            |                              |                          |                                           |                        |                 |                 |                     |             |               |             | Glazed roads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ☾                                 | Lunar corona ☾      |                   |

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                        |            |        | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall.<br>mm. | Sun-<br>shine to<br>Sunset.<br>Hours. | HUMIDITY %      |                               | SOUTH KENSINGTON<br>(Meteorological Office). | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |                                                                                           |                                                         |                |        |        |      |                |
|--------------------------------|-------------------------------------------------|------------|--------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|-------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------|--------|--------|------|----------------|
|                                | Morning                                         | Afternoon. | Night. |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T.                |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      |                |
|                                | 24 HOURS ENDED 5h G.M.T. 28 <sup>th</sup> ..... |            |        |                       |                       |                           |                       |                                       | YESTERDAY.      | TO-DAY.                       |                                              |                                                                                                         | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | 28 <sup>th</sup> & 29 <sup>th</sup> December..... 1919. |                |        |        |      |                |
| Greenwich (Royal Observatory)  | op                                              | c.b        | bc.bx  | 51                    | 35                    | 26                        | 1                     | 1.4                                   | 69              | 92                            | Stations.                                    | Sunrise.                                                                                                | Noon.                                                                                     | Sunset.                                                 |                |        |        |      |                |
| City (Bunhill Row) ...         | *                                               | *          | *      | *                     | *                     | *                         | *                     | 0.3                                   | *               | *                             |                                              |                                                                                                         |                                                                                           |                                                         | G.M.T.         | G.M.T. | G.M.T. |      |                |
| Westminster (St. James's Park) | *                                               | *          | *      | *                     | *                     | *                         | *                     | 1.1                                   | *               | *                             |                                              |                                                                                                         |                                                                                           |                                                         | Yarmouth ... { | 8.6    | 11.55  | 3.44 |                |
| Admiralty Arch                 | cm.ormg                                         | bcm        | bm.cw  | 52                    | 38                    | *                         | 0.2                   | 0.6                                   | 68              | 92                            | Greenwich {                                  | 8.8                                                                                                     | 12.2                                                                                      | 3.56                                                    |                |        |        |      |                |
| Camden Sq. (British Rainfall)  | -                                               | -          | *      | 50                    | 34                    | 27                        | 1                     | *                                     | -               | 100                           |                                              |                                                                                                         |                                                                                           |                                                         | Wick ... {     | 8.8    | 12.2   | 3.57 |                |
| Kensington Palace              | o.bc                                            | c          | *      | 51                    | 35                    | 26                        | 1                     | *                                     | 72 (8h)         | 98                            |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      | Valencia ... { |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 | Total ..... 154 ..... Joules. | Average Rate. 5.5<br>Maximum Rate. 18        | Milliwatts.                                                                                             | 8.51                                                                                      | 12.14                                                   |                |        |        |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         | 8.51           | 12.43  | 4.35   |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         | 8.51           | 12.43  | 4.36   |      |                |
|                                |                                                 |            |        |                       |                       |                           |                       |                                       |                 |                               |                                              |                                                                                                         |                                                                                           |                                                         |                |        |        |      |                |

## NOTES ON THE WEATHER OF YESTERDAY.

Rain fell generally, mostly in small amounts; Jersey had 13 m.m. Wick 11 m.m. There was sleet locally in the North, and thunder at Stornoway. Temperature reached 50° at some Southern and Western stations, but only reached 38° at Lerwick, where there was a severe S.W. gale. The best sunshine records were in N.W. England and Wales; Holyhead having 4.5 hours.

† Air Ministry Station.

\* Information for these columns not usually received.





METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 23,221 B MONDAY, 29<sup>TH</sup> DECEMBER 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H. |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               |                                 |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
|-------------------------------------------------------------------------|------------------------|--------------------------|--------|----------------|----------|-----------------------|--------------------------|----------------------|-------------------------------------|------------|----------------|---------------------------------|---------------|---------------------------------|------------------------|--------------------------|-------------|----------|------------|--------------|--------------------|----------------------|-------------------------------------|------------|----|--------------|----|-------------|
| STATIONS.                                                               | BAROM.<br>at<br>M.S.L. | Change<br>in 3<br>hours. | WIND.  |                | Weather. | TEMP.<br>°F.          | HUMIDITY.<br>%           | Visibility.<br>0-10. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud. |                | Upper Cloud.                    |               | Sea<br>0-9.                     | BAROM.<br>at<br>M.S.L. | Change<br>in 3<br>hours. | WIND.       |          | Weather.   | TEMP.<br>°F. | HUMIDITY.<br>%     | Visibility.<br>0-10. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud. |    | Upper Cloud. |    | Sea<br>0-9. |
|                                                                         | m.b.                   |                          | Direc. | Force<br>0-12. |          | Form.                 | Amt.<br>0-10.            | Form.                | Amt.<br>0-10.                       | Form.      | Amt.<br>0-10.  | Form.                           | Amt.<br>0-10. |                                 | Form.                  | Amt.<br>0-10.            |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| 13H. G.M.T. 22 <sup>ND</sup>                                            |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | 18H. G.M.T. OF 22 <sup>ND</sup> |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Houton B.(Orkney)                                                      | 1000.3                 | +2                       | SSE    | 2              | 0        | 36                    | 98                       | 5                    | 1½-2000                             | St         | 10             | -                               | -             | *                               | 997.3                  | -4                       | SSE         | 2        | om         | 37           | 92                 | 5                    | -                                   | St         | 10 | -            | -  | *           |
| †Eskdalemuir ...                                                        |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Stranraer ...                                                          |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Lough Foyle ...                                                        |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Valencia (Cahire'n)                                                    | 998.9                  | -5                       | SE     | 7              | 0        | 50                    | 92                       | 5                    | 1-1500                              | St         | 7              | ASr                             | 3             | 5                               | 988.9                  | 0                        | SW          | 6        | od         | 53           | 98                 | 5                    | ½-1000                              | SE         | 10 | -            | -  | *           |
| †Anglesey (Llangefnol)                                                  |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Falmouth ...                                                           | 1002.5                 | -7                       | SSE    | 4              | orm      | 47                    | 98                       | 3                    | -                                   | Nb         | 10             | -                               | -             | *                               | 997.0                  | -2                       | SW          | 9        | orf        | 52           | 92                 | 1                    | -                                   | Nb         | 10 | -            | -  | *           |
| †Calshot (Hants) ...                                                    | 1006.6                 | 0                        | -      | 0              | 0        | 40                    | 98                       | 4                    | 2-3000                              | St         | 10             | -                               | -             | 1                               | 1001.4                 | -4                       | SE          | 3        | or         | 45           | 98                 | 2                    | ½-2000                              | Nb         | 10 | -            | -  | 5           |
| †Capel (Folkestone)                                                     | 1007.3                 | +2                       | -      | 0              | b3       | 41                    | 82                       | 3                    | -                                   | -          | -              | ASr                             | 2             | 3                               | 1005.4                 | -4                       | SSE         | 6        | og         | 43           | 92                 | 3                    | 1-1500                              | St         | 10 | -            | -  | *           |
| †Aberdeen ...                                                           | 998.3                  | +1                       | SSW    | 2              | 3        | 36                    | 92                       | 4                    | -                                   | -          | -              | -                               | -             | 3                               | 998.0                  | -1                       | SSE         | 3        | om         | 40           | 92                 | 4                    | -                                   | -          | -  | ASr          | 10 | 3           |
| †East Fortune ...                                                       | 998.3                  | 0                        | SW     | 2              | bc 3     | 39                    | 92                       | 5                    | 5-7000                              | St         | 4              | -                               | -             | *                               | 996.7                  | -1                       | SE          | 1        | CZ         | 38           | 92                 | -                    | 5-7000                              | St         | 8  | -            | -  | *           |
| †Flamborough Head                                                       | 1002.1                 | +2                       | SW     | 4              | c        | 38                    | 92                       | 3                    | 1-1500                              | St         | 10             | -                               | -             | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Felixstowe ...                                                         | 1006.2                 | +1                       | WNW    | 1              | c        | 43                    | 92                       | 5                    | 1-1500                              | St. Cu     | 7              | -                               | -             | 0                               | 1005.5                 | -2                       | SW          | 5        | og         | 42           | 98                 | 3                    | 1-1500                              | St         | 10 | -            | -  | 5           |
| †Cranwell (Lincs)                                                       | 1004.3                 | +2                       | SSW    | 2              | c        | 39                    | 92                       | 4                    | -                                   | -          | -              | C. St                           | 6             | *                               | 1001.6                 | -2                       | SE          | 3        | o          | 37           | 98                 | 4                    | 2-3000                              | St         | 3  | ASr          | 7  | *           |
| †Bedford ...                                                            |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Benson ...                                                             | 1004.0                 | 0                        | S      | 1              | bc       | 46                    | 92                       | 6                    | *                                   | *          | *              | *                               | *             | *                               | 1000.4                 | -6                       | SE          | 4        | or         | 42           | 98                 | -                    | -                                   | Nb         | 10 | -            | -  | *           |
| †London (Kew Obs.)                                                      | 1005.9                 | 0                        | SW     | 1              | om       | 43                    | 87                       | 3                    | -                                   | -          | -              | ASr                             | 10            | *                               | 1002.5                 | -7                       | SE          | 3        | orf        | 43           | 98                 | 3                    | -                                   | St         | 8  | ASr          | 2  | *           |
| 1H. G.M.T. OF 22 <sup>ND</sup>                                          |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | 7H. G.M.T. OF 22 <sup>ND</sup>  |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Houton B.(Orkney)                                                      | 987.0                  | -7                       | ESE    | 1              | orm      | 37                    | 92                       | 4                    | -                                   | Nb         | 10             | -                               | -             | *                               | 984.6                  | -2                       | SSW         | 5        | orm        | 44           | 98                 | 4                    | -                                   | Nb         | 10 | -            | -  | *           |
| †Eskdalemuir ...                                                        |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Stranraer ...                                                          |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Lough Foyle ...                                                        |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Valencia (Cahire'n)                                                    | 991.1                  | +5                       | WNW    | 4              | orf      | 51                    | *                        | *                    | *                                   | *          | *              | *                               | *             | 5                               | 993.2                  | +1                       | -           | 0        | c          | 48           | 92                 | 7                    | -                                   | St         | 8  | -            | -  | 4           |
| †Anglesey (Llangefnol)                                                  |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Falmouth ...                                                           | 993.7                  | +1                       | WSW    | 6              | cg       | 52                    | 92                       | 3                    | -                                   | St Cu      | 7              | -                               | -             | *                               | 998.9                  | 0                        | SW          | 6        | og         | 52           | 98                 | 4                    | -                                   | St         | 10 | -            | -  | *           |
| †Calshot (Hants) ...                                                    |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               | 1000.5                 | +2                       | WSW         | 4        | o          | 52           | 98                 | 4                    | ½-2000                              | St         | 10 | -            | -  | 4           |
| †Capel (Folkestone)                                                     | 999.5                  | -4                       | SW     | 7              | og       | 39                    | 98                       | 0                    | 1-1500                              | St         | 10             | -                               | -             | ?                               | 1000.7                 | +1                       | SW          | 6        | rf         | 43           | 98                 | 0                    | <500                                | St         | 10 | -            | -  | -           |
| †Aberdeen ...                                                           |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               | 982.8                  | -7                       | SSE         | 4        | r          | 43           | 92                 | 4                    | -                                   | Nb         | 10 | -            | -  | 4           |
| †East Fortune ...                                                       |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Flamborough Head                                                       |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Felixstowe ...                                                         | 997.4                  | -2                       | SW     | 4              | e        | 41                    | 98                       | 3                    | 1-1500                              | St         | 10             | -                               | -             | 4                               | 998.7                  | +1                       | WSW         | 3        | 3          | 46           | 98                 | 4                    | 1-1500                              | St. Cu     | 8  | -            | -  | 4           |
| †Cranwell (Lincs)                                                       | 993.1                  | -5                       | SSE    | 4              | o        | 42                    | 98                       | 6                    | 1-1500                              | St         | 10             | -                               | -             | *                               | 993.0                  | +1                       | SW          | 2        | c          | 43           | 92                 | 6                    | 2-3000                              | St         | 2  | ASr          | 4  | *           |
| †Bedford ...                                                            |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | *                               |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| †Benson ...                                                             | *                      | *                        | *      | *              | *        | *                     | *                        | *                    | *                                   | *          | *              | *                               | *             | *                               | 996.1                  | +2                       | SW          | 4        | o          | 51           | 92                 | -                    | -                                   | Cu         | 10 | -            | -  | *           |
| †London ...                                                             | 998.9                  | -1                       | *      | *              | o        | *                     | *                        | *                    | *                                   | *          | *              | *                               | *             | *                               | 998.0                  | +2                       | SW          | 3        | bcem       | 50           | 92                 | 3                    | 2-3000                              | St. Cu     | 2  | ASr          | 2  | *           |
| (M.O. at 1h.)                                                           |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               |                                 |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.                            |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               |                                 |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| STATIONS.                                                               | BAROM.<br>at<br>M.S.L. | TEMP.<br>°F.             | WIND.  |                | Weather. | BAROMETER.            |                          | TEMPERATURE.         |                                     | WIND.      |                | Direc.<br>of<br>Upper<br>Cloud. | Weather.      | Sea<br>0-9.                     | Rainfall<br>mm.        | TEMP.                    |             | WEATHER. |            |              | Sunshine<br>Hours. |                      |                                     |            |    |              |    |             |
|                                                                         | m. b.                  | °F.                      | Direc. | Force<br>0-12. |          | at<br>M.S.L.<br>m. b. | Change<br>in<br>3 hours. | Temp.<br>°F.         | Change<br>in<br>24 hours.           | Direc.     | Force<br>0-12. |                                 |               |                                 |                        | Max.<br>°F.              | Min.<br>°F. | Morning. | Afternoon. | Night.       |                    |                      |                                     |            |    |              |    |             |
| 18H. G.M.T. OF 22 <sup>ND</sup>                                         |                        |                          |        |                |          |                       |                          |                      |                                     |            |                |                                 |               | 7H. G.M.T. OF 22 <sup>ND</sup>  |                        |                          |             |          |            |              |                    |                      |                                     |            |    |              |    |             |
| Lerwick ...                                                             | 998.9                  | 40                       | SE     | 9              | 0        | 994.9                 | -1                       | 37                   | 0                                   | SE         | 9              | -                               | org           | 6                               | 3                      | 40                       | 35          | omrg     | omrg       | mq           | *                  |                      |                                     |            |    |              |    |             |
| Stornoway ...                                                           | 990.6                  | 42                       | S      | 4              | opo      | 983.8                 | -2                       | 36                   | -5                                  | W&W        | 2              | -                               | b             | 2                               | 3                      | 42                       | 36          | bc       | bcop       | opf          | 0.8                |                      |                                     |            |    |              |    |             |
| Castlebay (Barrats)                                                     | 990.7                  | 43                       | SE     | 5              | OR       | 985.4                 | +1                       | 41                   | -                                   | WNW        | 3              | -                               | ok            | 3                               | 6                      | 45                       | 39          | oh       | ohr        | r.oh         | 0.0                |                      |                                     |            |    |              |    |             |
| Glasgow ...                                                             | 996.2                  | 38                       | SE     | 2              | orm      | 984.9                 | 0                        | 36                   | -2                                  | SW         | 2              | -                               | me            | *                               | 14                     | 40                       | 33          | opcom    | orspm      | rsone        | 0.0                |                      |                                     |            |    |              |    |             |
| Malin Head ...                                                          | 988.5                  | 39                       | S      | 3              | omr      | 985.3                 | +2                       | 44                   | -3                                  | WNW        | 4              | -                               | cp            | 3                               | 4                      | 47                       | 36          | o        | om         | o            | 0.0                |                      |                                     |            |    |              |    |             |
| Blacksod Point                                                          | 985.1                  | 44                       | SSE    | 2              | cmr      | 991.1                 | +8                       | 44                   | -1                                  | WNW        | 2              | -                               | bc            | 3                               | 10                     | 49                       | 39          | cmd      | cmr        | omnbc        | *                  |                      |                                     |            |    |              |    |             |
| Roche's Point...                                                        | 991.0                  | 52                       | WSW    | 4              | r        | 994.6                 | +1                       | 48                   | +6                                  | WSW        | 2              | -                               | o             | -                               | 10                     | 53                       | 40          | or       | rdm        | dob.o        | *                  |                      |                                     |            |    |              |    |             |
| Birr Castle ...                                                         | 986.7                  | 40                       | S      | 1              | r        | 991.4                 | *                        | 45                   | +7                                  | S          | 1              | -                               | ?             | *                               | 5                      | 52                       | 35          | on       | or         | or.o         | 0.0                |                      |                                     |            |    |              |    |             |
| Donaghadee ...                                                          | 994.3                  | 41                       | S      | 6              | omrg     | 987.5                 | +4                       | 43                   | +6                                  | SW         | 2              | -                               | bc            | 2                               | 9                      | 50                       | 35          | bcem     | omrg       | omrg         | *                  |                      |                                     |            |    |              |    |             |
| Liverpool (Bidston)                                                     | 995.7                  | 39                       | SE     | 4              | r        | 988.8                 | 0                        | 49                   | +10                                 | SW         | 5              | -                               | b             | 5                               | 10                     | 51                       | 39          | bc o     | or         | or.b         | 0.0                |                      |                                     |            |    |              |    |             |
| Holyhead ...                                                            | 992.1                  | 43                       | SSE    | 4              | orm      | 990.7                 | +1                       | 48                   | +5                                  | WSW        | 4              | -                               | cg            | 3                               | 7                      | 50                       | 41          | omom     | o.orm      | orcg         | 0.8                |                      |                                     |            |    |              |    |             |
| Penbroke (St. Ann's Head)                                               | 993.5                  | 51                       | S      | 3              | ofd      | 995.3                 | +1                       | 50                   | +4                                  | SW         | 5              | -                               | cm            | 5                               | 3                      | 51                       | 48          | co       | orgm       | ofdcm        | 0.0                |                      |                                     |            |    |              |    |             |
| Silly (St. Mary's)                                                      | 998.0                  | 52                       | WSW    | 6              | orm      | 999.0                 | -1                       | 51                   | +4                                  | SW         | 4              | -                               | om            | 5                               | 12                     | 52                       | 47          | orm      | orm        | om           | 0.8                |                      |                                     |            |    |              |    |             |
| Jersey (St. Aubin)                                                      | 1003.1                 | 51                       | S      | 4              | or       | 1002.9                | 0                        | 52                   | +5                                  | SSW        | 3              | -                               | o             | 3                               | 12                     | 53                       | 45          | oead     | edor       | ordoe        | 0.0                |                      |                                     |            |    |              |    |             |
| Portland Bill ...                                                       | 999.8                  | 49                       | SSE    | 4              | omr      | 998.0                 | 0                        | 50                   | +3                                  | WSW        | 5              | -                               | o             | 5                               | 20                     | 52                       | 45          | bc       | comr       | op           | *                  |                      |                                     |            |    |              |    |             |
| Dungeness ...                                                           | 1004.3                 | 46                       | SW     | 3              | o        | 999.1                 | *                        | 49                   | +10                                 | WSW        | 5              | -                               | o             | 4                               | 7                      | 50                       | 36          | bc       | c.o        | omado        | *                  |                      |                                     |            |    |              |    |             |
| Wick ...                                                                | 995.3                  | 40                       | SSE    | 4              | om       | 982.9                 | -9                       | 41                   | +2                                  | SSE        | 5              | -                               | r             | 4                               | 6                      | 42                       | 35          | bcem     | cmbe       | cmshvr       | *                  |                      |                                     |            |    |              |    |             |
| Nairn ...                                                               | 998.6                  | 36                       | -      | 0              | o        | 982.1                 | *                        | 36                   | +3                                  | -          | 0              | -                               | o             | 1                               | 1                      | 40                       | 33          | abc      | bcg        | oup          | 1.3                |                      |                                     |            |    |              |    |             |
| Leith ...                                                               | 995.5                  | 38                       | SE     | 1              | o        | 983.0                 | 0                        | 39                   | +2                                  | SW         | 1              | -                               | dm            | 2                               | 8                      | 40                       | 37          | bcem     | om.o       | omr.nd       | *                  |                      |                                     |            |    |              |    |             |
| Tynemouth ...                                                           | 999.3                  | 39                       | SW     | 3              | m        | 990.4                 | *                        | 44                   | +6                                  | W          | 3              | -                               | bc            | 3                               | 7                      | 44                       | 37          | om       | bc         | bcem         | *                  |                      |                                     |            |    |              |    |             |
| Spurn Head ...                                                          | 1001.5                 | 38                       | SSE    | 3              | om       | 990.7                 | 0                        | 45                   | +8                                  | SW         | 4              | -                               | bp            | 4                               | 7                      | 46                       | 35          | bc       | o          | bcem         | *                  |                      |                                     |            |    |              |    |             |
| Yarmouth (Gor. Island)                                                  | 1005.4                 | 38                       | N      | 3              | m        | 996.0                 | +2                       | 48                   | +13                                 | W          | 3              | -                               | bc            | 5                               | 7                      | 50                       | 34          | cbx2     | om         | omcmr        | 0.0                |                      |                                     |            |    |              |    |             |
| Clacton-on-Sea                                                          | 1004.9                 | 43                       | SSE    | 3              | o        | 997.3                 | +3                       | 45                   | +7                                  | S          | 3              | -                               | c             | 3                               | 6                      | 49                       | 36          | bcem     | bcem       | smgr.c       | 2.7                |                      |                                     |            |    |              |    |             |
| Nottingham ...                                                          | 1000.5                 | 39                       | SSE    | 2              | or       | 992.5                 | *                        | 51                   | +16                                 | WSW        | 3              | SW                              | c             | *                               | 8                      | 51                       | 32          | bcem     | om         | no           | 0.0                |                      |                                     |            |    |              |    |             |

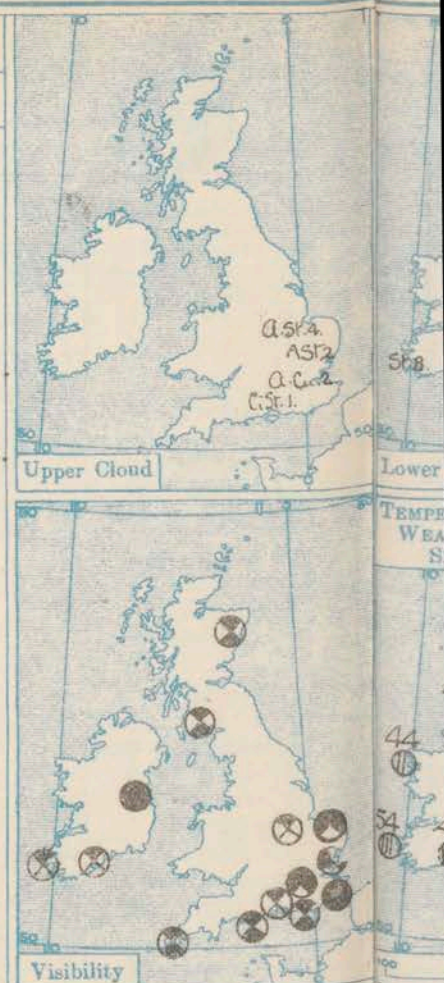
\* At Minor Station. \* Information for these columns not usually received.

The barometric change is expressed in half millibars. \* Clouds 1-2 1



# SUMMARY OF CONDITIONS AT 7 A.M. Monday, 29th December, 1919.

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation. | Visibility. | Sea.     |
|------------------------------|-----------------------------|--------------|-----------------------------------|-------------|----------|
| 1. S.E. England              | SW. 10-15.                  | Mild.        | Fair to cloudy.                   | Fair.       | Mod.     |
| 2. E. England                | S-W 10-15.                  | "            | Cloudy.                           | Good.       | Mod.     |
| 3. E. Midlands               | S-SW 5-10.                  | "            | Cloudy to overcast.               | "           | -        |
| 4. W. Midlands               | S.W. 10-15.                 | "            | Cloudy.                           | "           | -        |
| 5. S.W. England              | SW. 15-20.                  | r.mild.      | Dull, some mist.                  | Fair.       | r.rough. |
| 6. South Wales               | SW. 15-20.                  | "            | " " "                             | "           | "        |
| 7. North Wales               | SW-W 10-15.                 | Mild.        | Variable.                         | Good.       | Slight.  |
| 8. N.W. England              | S-SW 10-15.                 | "            | Variable, some rain.              | Var.        | Mod.     |
| 9. N. Midlands               | SW-W 10-15.                 | "            | Fair.                             | Fair.       | -        |
| 10. N.E. England             | SW-W 10-15.                 | r.mild.      | Variable, some showers.           | "           | Mod.     |
| 11. E. Scotland              | SSE-SW 0-10                 | Normal.      | Dull, some rain.                  | "           | Slight.  |
| 12. S.W. Scotland            | S-SW 5-15.                  | r.mild.      | Dull, some rain.                  | "           | "        |
| 13. Isle of Man              | SW-W 5-10.                  | Normal.      | Fair.                             | "           | "        |
| 14. N. & N.W. Scot-<br>land  | S-SW 0-5.                   | "            | Dull.                             | "           | "        |
| 15. Hebrides                 | SW-W 0-10.                  | r.cool.      | Fine to fair.                     | Good.       | "        |
| 16. Orkneys and<br>Shetlands | S-SE 25-40.                 | "            | Dull, rainy, squally.             | Poor.       | Rough.   |
| 17. N.W. Ireland             | W-NW 5-15.                  | Normal.      | Fair to dull, showers.            | Good.       | Mod.     |
| 18. N.E. Ireland             | SW-W 5-15.                  | "            | Fair.                             | Fair.       | Slight.  |
| 19. S.E. Ireland             | S-W. 5-15.                  | "            | Fair.                             | "           | -        |
| 20. S.W. Ireland             | SW-W 0-5.                   | Mild.        | Dull.                             | Good.       | Mod.     |



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ● rain falling.  
 \* snow. ▲ hail. ≡ fog. ≡ mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough ~~~~~ High ~~~~~

GENERAL INFERENCE from observations received up to 9 a.m.

The depression now over Scotland will move away to North-Eastward. A fresh disturbance is indicated off S.W. Ireland and will probably cause further rain over the Southern districts.

| Districts.                                                              | Forecasts for the 24 hours commencing 3 p.m. Monday, 29th December, 1919.                                             | Further Outlook.                                     |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands    | Moderate to fresh S.W. winds backing to South. Cloudy, some rain later; visibility fair but some local mist; mild.    | Conditions are likely to remain generally unsettled. |
| 5. S.W. England<br>6. South Wales                                       | Fresh S-SW winds; cloudy to dull; some rain improving later. Visibility fair; Mild.                                   |                                                      |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Moderate or fresh winds between SW. and NW; showery with fair intervals, squally; visibility fair. Rather mild.       |                                                      |
| 11. E. Scotland<br>12. S.W. Scotland                                    | Moderate to strong winds between S. and W. Cloudy, some showers; visibility improving. Temp. moderate to rather mild. |                                                      |
| 13. Isle of Man                                                         | As for 7 - 10.                                                                                                        |                                                      |
| 14. N. & N.W. Scotland<br>15. Hebrides                                  | Light to moderate Westerly or variable winds; fair to cloudy, some showers; temperature moderate; visibility fair.    |                                                      |
| 16. Orkneys and Shetlands                                               | Wind S.E. strong to a gale, rainy. visibility poor; temperature moderate.                                             |                                                      |
| 17. N.W. Ireland<br>18. N.E. Ireland                                    | As for 7 - 10.                                                                                                        |                                                      |
| 19. S.E. Ireland<br>20. S.W. Ireland                                    | Fresh to strong Southerly winds veering later; some rain then improving; squally; visibility fair to good. Mild.      |                                                      |

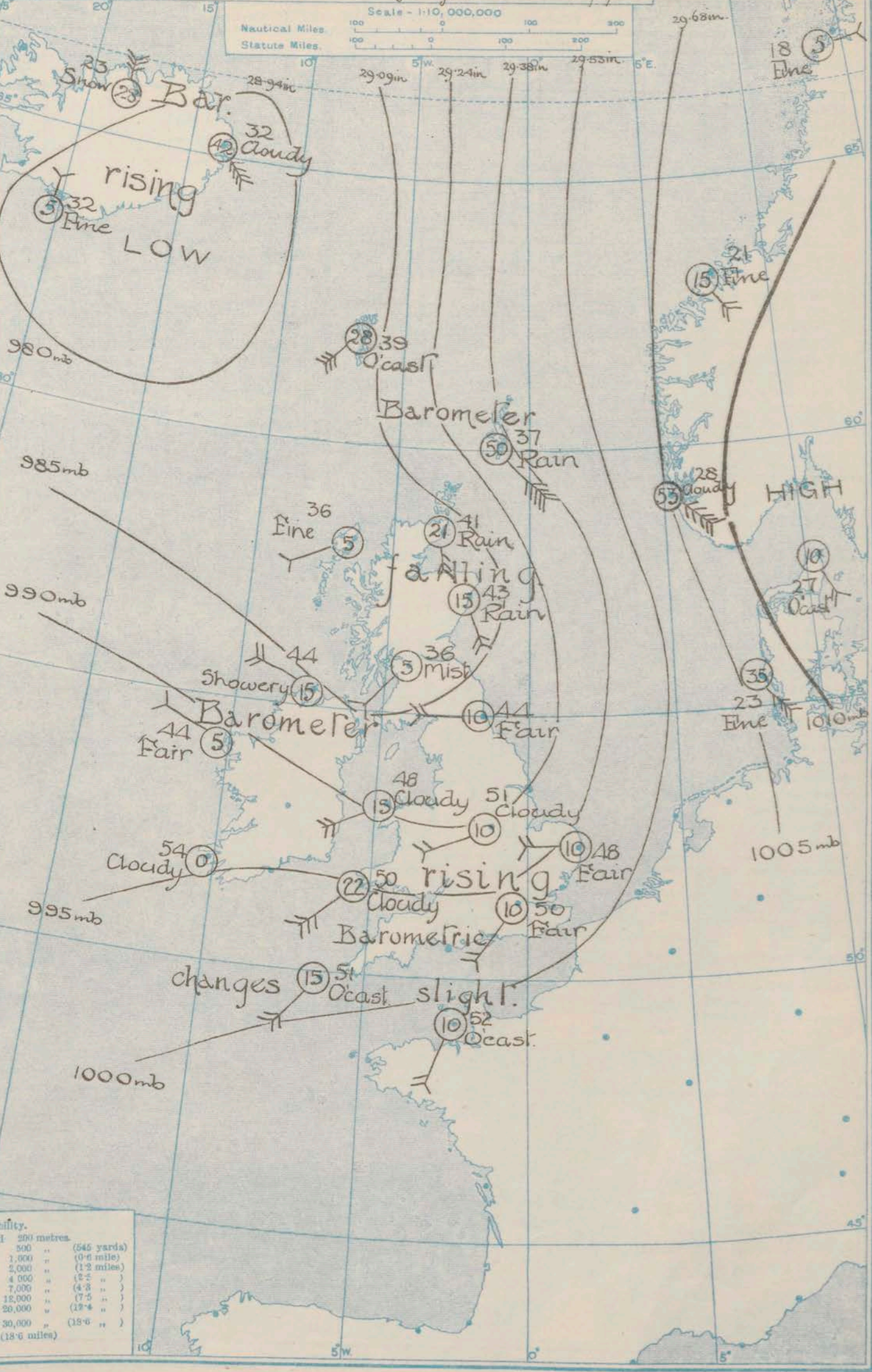
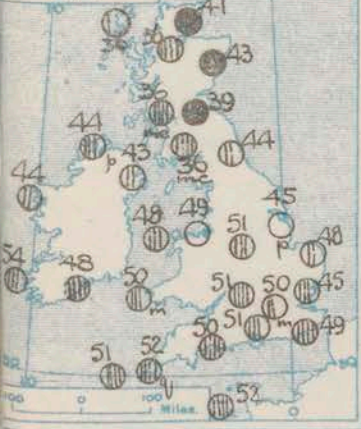


# SYNOPTIC CHART FOR MORNING OF Monday, 29th December, 1919.

Nautical Miles  
Statute Miles.

Scale - 1:10,000,000

TEMPERATURE  
WEATHER,  
SEA.



## Scale of Surface Visibility.

| 0  | Very Bad               | Objects not visible beyond | 200 metres   |             |
|----|------------------------|----------------------------|--------------|-------------|
| 1  | Bad                    | "                          | 500 "        | (546 yards) |
| 2  | Very Poor              | "                          | 1,000 "      | (0.6 mile)  |
| 3  | Poor                   | "                          | 2,000 "      | (1.2 miles) |
| 4  | Indif.                 | Ordinary                   | 4,000 "      | (2.5 "      |
| 5  | Fair                   | "                          | 7,000 "      | (4.3 "      |
| 6  | Good, above ord.       | "                          | 12,000 "     | (7.5 "      |
| 7  | Vy. gd., unusual       | "                          | 20,000 "     | (12.4 "     |
| 8  | Excep. good            | "                          | 30,000 "     | (18.6 "     |
| 10 | Objects visible beyond | 30,000 metres,             | (18.6 miles) |             |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 3638

Monday  
29th December.

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 28 <sup>th</sup> |                      |           |            |              |          |                                   |                                 |                                    |           |               |                      |            |          |              |                                   |                                 |                                    |           |     |
|------------------------------------------------------------------------------------|----------------------|-----------|------------|--------------|----------|-----------------------------------|---------------------------------|------------------------------------|-----------|---------------|----------------------|------------|----------|--------------|-----------------------------------|---------------------------------|------------------------------------|-----------|-----|
| STATIONS.                                                                          |                      | WEATHER.  |            | TEMPERATURE. |          | Rainfall.                         |                                 | SUNSHINE.                          |           | STATIONS.     |                      | WEATHER.   |          | TEMPERATURE. |                                   | Rainfall.                       |                                    | SUNSHINE. |     |
|                                                                                    |                      | Forenoon. | Afternoon. | Max. °F.     | Min. °F. | Night. 12h-9h. 27 <sup>th</sup> . | Day. 9h-12h. 28 <sup>th</sup> . | Sunrise to Sun- 28 <sup>th</sup> . | Forenoon. |               |                      | Afternoon. | Max. °F. | Min. °F.     | Night. 12h-9h. 27 <sup>th</sup> . | Day. 9h-12h. 28 <sup>th</sup> . | Sunrise to Sun- 28 <sup>th</sup> . |           |     |
| Scotland.                                                                          | Oban ... ..          |           |            |              |          |                                   |                                 |                                    |           | England, N.W. | Douglas (I.O.M.)     |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Banff ... ..         |           |            |              |          |                                   |                                 |                                    |           |               | Blackpool ... ..     |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Montrose ... ..      |           |            |              |          |                                   |                                 |                                    |           |               | Southport ... ..     | 0          | 0        | 40           | 39                                | -                               | -                                  |           | 0.0 |
|                                                                                    | St. Andrews ... ..   |           |            |              |          |                                   |                                 |                                    |           |               |                      |            |          |              |                                   |                                 |                                    |           |     |
| England, N.E.                                                                      | Harrogate ... ..     | c         | 0          | 41           | 36       | ?                                 | ?                               |                                    | 0.0       | Midlands.     | Buxton ... ..        |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Skegness ... ..      |           |            |              |          |                                   |                                 |                                    |           |               | Leamington Spa...    |            |          | 49           | 35                                |                                 |                                    |           |     |
|                                                                                    |                      |           |            |              |          |                                   |                                 |                                    |           |               | Malvern ... ..       |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    |                      |           |            |              |          |                                   |                                 |                                    |           |               | Ross-on-Wye ... ..   | cmx0       | ogor     | 44           | 35                                | -                               | 4                                  |           | 0.0 |
| England, E.                                                                        | Felixstowe ... ..    | bcm       | ogm        | 43           | 36       | -                                 | -                               |                                    | 3.1       | Wales.        | Rhyl ... ..          | cp         | pc       | 43           | 36                                | -                               | ?                                  |           | 0.0 |
|                                                                                    | Walton-on-Naze...    |           |            |              |          |                                   |                                 |                                    |           |               | Colwyn Bay ... ..    | -          | -        | 44           | 42                                | -                               | 4                                  |           | 0.0 |
|                                                                                    | Southend-on-Sea...   |           |            |              |          |                                   |                                 |                                    |           |               | Llandudno ... ..     | z          | z        | 46           | ?                                 | -                               | 3                                  |           | ?   |
|                                                                                    | Lowestoft            | bcc       | co         | 42           | 34       | -                                 | -                               |                                    | 3.0       |               | Aberystwyth ... ..   |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    |                      |           |            |              |          |                                   |                                 |                                    |           |               |                      |            |          |              |                                   |                                 |                                    |           |     |
| England, S.E.                                                                      | Margate ... ..       | ?         | 0          | 45           | 35       | 1                                 | -                               |                                    | 2.0       | England, S.W. | Weymouth ... ..      |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Ramsgate ... ..      |           |            |              |          |                                   |                                 |                                    | 2.5       |               | Teignmouth ... ..    |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Folkestone ... ..    | bbc       | bcc        | 47           | 39       | -                                 | -                               |                                    | 1.4       |               | Torquay ... ..       | 0          | 0        | 50           | 40                                | 1                               | 8                                  |           | 0.0 |
|                                                                                    | Hastings ... ..      | o.ccr     | bcc        | 47           | 38       | -                                 | -                               |                                    | 1.6       |               | Paignton ... ..      | 0          | 0        | 53           | 39                                |                                 |                                    |           | 0.0 |
|                                                                                    | Eastbourne ... ..    |           |            | 48           | ?        | 0.1                               | 1                               |                                    | 1.3       |               | Penzance ... ..      | or         | or       | 50           | 43                                | 3                               | 9                                  |           | 0.0 |
|                                                                                    | Brighton ... ..      | b.bc      | cod        | 46           | 38       | 1                                 | -                               |                                    | 1.5       |               | Newquay ... ..       | 0. or      | or       | 53           | 44                                | 1                               | 11                                 |           | 0.0 |
|                                                                                    | Worthing ... ..      | bc        | cor        | 46           | 35       | -                                 | 1                               |                                    |           |               | Bude ... ..          |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Littlehampton ... .. | bc        | omr        | 47           | ?        | -                                 | 1                               |                                    | 1.3       |               | Ilfracombe ... ..    |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Bournemouth ... ..   |           |            | 47           | 37       | 1                                 | 1                               |                                    | 0.0       |               | Weston-s-Mare ... .. |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    | Tunbridge Wells      | bcc       | cor        | 44           | 33       | -                                 | 1                               |                                    | 0.6       |               |                      |            |          |              |                                   |                                 |                                    |           |     |
|                                                                                    |                      |           |            |              |          |                                   |                                 |                                    |           |               |                      |            |          |              |                                   |                                 |                                    |           |     |

| STATIONS.                  |  | SUMMARIES FOR PAST 24 HOURS. |                            |                            |                          |                 |                 |                    |              | THE BEAUFORT SCALE OF WIND FORCE. |     |             |                |
|----------------------------|--|------------------------------|----------------------------|----------------------------|--------------------------|-----------------|-----------------|--------------------|--------------|-----------------------------------|-----|-------------|----------------|
|                            |  | WEATHER                      |                            |                            |                          | Max. Temp. ° F. | Min. Temp. ° F. | Min. on Grass ° F. | RAINFALL.    |                                   |     | Sun. Hours. |                |
|                            |  | 7h-12h 28 <sup>th</sup> .    | 12h-12h 28 <sup>th</sup> . | 12h-12h 28 <sup>th</sup> . | 1h-7h 28 <sup>th</sup> . |                 |                 |                    | Day. 7h-12h. |                                   |     |             | Night. 12h-7h. |
| †Houton Bay (Orkney)...    |  |                              |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| Eskdalemuir ...            |  | oe-o                         | o. om                      | om or sm                   | orm                      | 44              | 33              | 32                 | -            | 14                                | 0.0 |             |                |
| †Stranraer ...             |  |                              |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| †Lough Foyle ...           |  |                              |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| Valencia (Cahirciveen) ... |  | oor                          | or, pd                     |                            | bc, cp                   | 54              | 41              | <del>44</del>      | 8            | 1                                 | 0.0 |             |                |
| †Anglesey (Llangefni) ...  |  |                              |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| Falmouth ...               |  | om, orm                      | or, m, r, q                | r, g. o. c, g              | c, g. o, q               | 53              | 42              | 50                 | 19           | 5                                 | 0.0 |             |                |
| †Calshot (Hants) ...       |  | o                            | r                          |                            | n                        | 52              | 42              | *                  | *            | *                                 | *   |             |                |
| †Capel (Folkestone)...     |  | bc-c3                        | bcc                        | bc, c 2                    | efi d.                   | 50              | 35              | *                  | *            | *                                 | *   |             |                |
| Aberdeen ...               |  | b3x                          | bezom                      |                            | orgm                     | 43              | 28              | 30                 | -            | 9                                 | 1.4 |             |                |
| †East Fortune ...          |  | b3z                          | bccz                       |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| †Flamborough Head ...      |  | 03                           |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| †Felixstowe ...            |  | bc.c                         | ofq                        | nq                         | q                        | 50              | 37              | *                  | *            | *                                 | *   |             |                |
| †Cranwell (Lincs) ...      |  | c.o.c                        | cz                         | 2                          | o.c.o                    | 49              | 33              | *                  | *            | *                                 | *   |             |                |
| †Bedford ...               |  |                              |                            |                            |                          |                 |                 | *                  | *            | *                                 | *   |             |                |
| Benson ...                 |  | bc                           | or                         |                            | no                       | 52              | 33              | 31                 | 3            | 3                                 | *   |             |                |
| London (Kew Obsy.) ...     |  | bcmxmbor                     | om, orm                    | ormadmonom.                | bcm                      | 52              | 35              | 43                 | 1            | 7                                 | 0.0 |             |                |

| BEAUFORT NOTATION. |                                                  |
|--------------------|--------------------------------------------------|
| b                  | blue sky (not more than a quarter covered).      |
| bc                 | sky partly cloudy (one half covered).            |
| c                  | generally cloudy (three quarters covered).       |
| d                  | drizzle, or fine rain.                           |
| e                  | wet air without rain falling.                    |
| f                  | fog. g gloom.                                    |
| h                  | hail. i lightning.                               |
| m                  | mist.                                            |
| o                  | overcast sky.                                    |
| p                  | passing showers.                                 |
| q                  | squalls.                                         |
| r                  | rain.                                            |
| rs                 | sleet, i.e., rain and snow together.             |
| s                  | snow.                                            |
| t                  | thunder.                                         |
| u                  | ugly, threatening sky.                           |
| v                  | unusual visibility.                              |
| w                  | dew.                                             |
| x                  | hoar frost.                                      |
| y                  | dry air; humidity less than 60 per cent.         |
| z                  | dust haze; the turbid atmosphere of dry weather. |

| THE BEAUFORT SCALE OF WIND FORCE. |                         |                    |
|-----------------------------------|-------------------------|--------------------|
| No.                               | Limits of Velocity.     |                    |
|                                   | 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                     | 1.6-3.3            |
| 3                                 | 8-12                    | 3.4-5.4            |
| 4                                 | 13-18                   | 5.5-7.9            |
| 5                                 | 19-24                   | 8.0-10.7           |
| 6                                 | 25-31                   | 10.8-13.8          |
| 7                                 | 32-38                   | 13.9-17.1          |
| 8                                 | 39-46                   | 17.2-20.7          |
| 9                                 | 47-54                   | 20.8-24.4          |
| 10                                | 55-63                   | 24.5-28.4          |
| 11                                | 64-75                   | 28.5-33.6          |
| 12                                | Above 75                | 33.6 or above      |

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

**SYMBOLS—**  
Aurora ☄ Solar hail ☄  
Rime ❄ Lunar hail ☄  
Glazed frost ❄ Solar corona ☄  
Glazed roads ❄ Lunar corona ☄

## BEAUFORT NOTATION.

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bc sky partly cloudy (one half covered).  
c generally cloudy (three quarters covered).  
d drizzle, or fine rain.  
e wet air without rain falling.  
f fog. g gloom.  
h hail. i lightning.  
m mist.  
o overcast sky.  
p passing showers.  
q squalls.  
r rain.  
rs sleet, i.e., rain and snow together.  
s snow.  
t thunder.  
u ugly, threatening sky.  
v unusual visibility.  
w dew.  
x hoar frost.  
y dry air; humidity less than 60 per cent.  
z dust haze; the turbid atmosphere of dry weather.

## THE BEAUFORT SCALE OF WIND FORCE.

| Limits of Velocity. |                         |                    |
|---------------------|-------------------------|--------------------|
| No.                 | Statute miles per hour. | Meters 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      |

Suffixes 0, 1 and 2 attached to Beaufort letters signify intensity, 0=slight, 2=heavy. Underlining is used to express continuity.

## SYMBOLS—

Aurora ☄ Solar halo ☉  
Rime ☃ Lunar halo ☾  
Glazed frost ☑ Solar corona ☼  
Glazed roads ☐ Lunar corona ☾

| LONDON.<br>OBSERVATIONS.       | WEATHER.                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall,<br>mm. | Sun-<br>shine to<br>Sunset,<br>Hours. | HUMIDITY %      |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |          |        |         |
|--------------------------------|-------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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|                                | Morning                                         | Afternoon | Night.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           |                                                                                                         |          |        |         |
|                                | 24 HOURS ENDED 9H G.M.T. 29 <sup>th</sup> ..... |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                           |                       |                                       | YESTERDAY.      | TO-DAY.        |                                                                                           | 29 <sup>th</sup> & 30 <sup>th</sup> December..... 1919.                                                 |          |        |         |
|                                |                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                           |                       |                                       |                 |                | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Stations.                                                                                               | Sunrise. | Noon.  | Sunset. |
| Greenwich (Royal Observatory)  | c. o. e                                         | 02        | 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53                    | 36                    | 38                        | 7                     | 0.4                                   | 82              | 85             |                                                                                           |                                                                                                         | G.M.T.   | G.M.T. | G.M.T.  |
| City (Bunhill Row) ... ..      | "                                               | "         | "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | "                     | "                     | "                         | "                     | 0.0                                   | "               | "              |                                                                                           |                                                                                                         |          |        |         |
| Westminster (St. James's Park) | "                                               | "         | "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 54                    | 36                    | 30                        | 7                     | 00                                    | 74              | 84             |                                                                                           |                                                                                                         |          |        |         |
| (Admiralty Arch)               | cm. of                                          | om. omr   | 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METEOROLOGICAL OFFICE, LONDON:  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21,222B TUESDAY, 30<sup>TH</sup> DECEMBER, 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 13H AND 18H. |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
|-------------------------------------------------------------------------|------------------------|-------------------------------|---------------------|---------|----------------------|--------------------------|--------------|----------------------------|------------|---------------|-----------------|---------------------------------|-------------------------------|---------------------|-------------|----------|------------|--------------------|----------------------------|------------|---------------|--------|----|-------|---|
| STATIONS                                                                | BAROM.<br>at<br>M.S.L. | ↑<br>Change<br>in 3<br>hours. | WIND.               | Weather | TEMP.                | HUMIDITY.                | Visibility.  | Height<br>of Low<br>Cloud. | Low Cloud. | Upper Cloud.  | Sea             | BAROM.<br>at<br>M.S.L.          | ↑<br>Change<br>in 3<br>hours. | WIND.               | Weather     | TEMP.    | HUMIDITY.  | Visibility.        | Height<br>of Low<br>Cloud. | Low Cloud. | Upper Cloud.  | Sea    |    |       |   |
|                                                                         | m.b.                   |                               | Dir. Force<br>0-12. |         | °F.                  | %                        | 0-10.        | Feet.                      | Form.      | Amt.<br>0-10. | 0-9.            | m.b.                            |                               | Dir. Force<br>0-12. |             | °F.      | %          | 0-10.              | Feet.                      | Form.      | Amt.<br>0-10. | 0-9.   |    |       |   |
| 13H. G.M.T. OF 29 <sup>TH</sup>                                         |                        |                               |                     |         |                      |                          |              |                            |            |               |                 | 18H. G.M.T. OF 29 <sup>TH</sup> |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| †Houton B.(Orkney)                                                      | 991.9                  | +6                            | WSW 3               | o       | 40                   | 82                       | 7            | -                          | St. Cu     | 9             | -               | 994.6                           | +3                            | SSW 2               | o           | 38       | 92         | 6                  | -                          | St.        | 9             | -      | -  | *     |   |
| Eskdalemuir ...                                                         |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Stranraer ...                                                          |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Lough Foyle ...                                                        | 994.5                  | o                             | SSW 1               | o       | 49                   | 92                       | 6            | 3-1000                     | St         | 10            | -               | 997.2                           | +4                            | NW 2                | o           | 46       | 92         | 7                  | 1-1500                     | St.        | 10            | -      | -  | 3     |   |
| Valencia (Cahire'n)                                                     |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| †Anglesey (Llangefni)                                                   |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| Falmouth ...                                                            | 999.7                  | -1                            | SW 4                | om.     | 51                   | 98                       | 3            | -                          | St         | 10            | -               | 999.7                           | o                             | SW 4                | oz          | 51       | 98         | 3                  | -                          | St.        | 10            | -      | -  | *     |   |
| †Calshot (Hants) ...                                                    | 1001.1                 | +1                            | SW 3                | d.      | 51                   | 98                       | 2            | 1-1000                     | Nb         | 10            | -               | 1001.4                          | o                             | SW 3                | of          | 50       | 98         | 2                  | 1-1500                     | Nb         | 10            | -      | -  | 0     |   |
| †Capel (Folkestone)                                                     | 1001.4                 | -1                            | SW 5                | ef.     | 48                   | 98                       | 0            | <500                       | St         | 10            | -               | 1002.0                          | +1                            | SW 5                | of          | 49       | 98         | 0                  | 5-1000                     | St.        | 10            | -      | -  | 5     |   |
| Aberdeen ...                                                            | 986.9                  | +4                            | W 3                 | 3.      | 42                   | 75                       | 6            | -                          | St. Cu     | 6             | -               | 991.1                           | +5                            | SSW 2               | bm          | 38       | 82         | 5                  | -                          | -          | -             | A.Cu   | 2  | 4     |   |
| †East Fortune ...                                                       | 989.2                  | +7                            | WNW 4               | c       | 42                   | 87                       | 4            | 2-3000                     | St. Cu     | 4             | A. Cu           | 4                               | *                             | 995.9               | +1          | SW 3     | c          | 42                 | 87                         | 4          | 5-7000        | St. Cu | 2  | C. C  | 6 |
| †Framborough Head                                                       | 992.8                  | +1                            | W 4                 | o       | 48                   | 75                       | 7            | 2-3000                     | St. Cu     | 6             | A. St           | 2                               | *                             | 1001.2              | +1          | W 3      | om         | 46                 | 98                         | 4          | 1-1500        | St.    | 10 | -     | 3 |
| †Felixstowe ...                                                         | 1000.1                 | o                             | W 3                 | c       | 48                   | 92                       | 4            | -                          | -          | -             | -               | 997.9                           | +3                            | S 1                 | o           | 46       | 98         | 5                  | 2-3000                     | St.        | 10            | -      | -  | *     |   |
| †Cranwell (Lincs)                                                       |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Bedford ...                                                            |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| Benson ...                                                              | 997.7                  | -1                            | SW 4                | o       | 52                   | 87                       | 5            | -                          | -          | -             | -               | 999.1                           | o                             | SW 3                | c           | 49       | 92         | 5                  | -                          | -          | 5             | -      | -  | *     |   |
| London (Kew Obs.)                                                       | 999.2                  | o                             | SW 4                | bc.     | 53                   | 82                       | 5            | 2-3000                     | St. Cu     | 3             | C. St           | 2                               | *                             | 1000.5              | +1          | SW 2     | om         | 51                 | 87                         | 4          | 2-3000        | St. Cu | 7  | A. St | 3 |
| 1H. G.M.T. OF 30 <sup>TH</sup>                                          |                        |                               |                     |         |                      |                          |              |                            |            |               |                 | 7H. G.M.T. OF 30 <sup>TH</sup>  |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| †Houton B.(Orkney)                                                      | 995.1                  | o                             | SW 1                | adm     | 39                   | 98                       | 4            | -                          | Nb         | 10            | -               | 996.3                           | o                             | SW 1                | bc          | 36       | 92         | 7                  | -                          | St         | 5             | -      | -  | *     |   |
| Eskdalemuir ...                                                         |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Stranraer ...                                                          |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Lough Foyle ...                                                        |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | o     |   |
| Valencia (Cahire'n)                                                     | 998.3                  | o                             | SSE 2               | bc      | 43                   | *                        | *            | *                          | *          | *             | *               | 991.7                           | -10                           | SE 4                | of          | 45       | 92         | 5                  | -                          | St         | 10            | -      | -  | o     |   |
| †Anglesey (Llangefni)                                                   |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| Falmouth ...                                                            | 1001.7                 | +2                            | SW 3                | c       | 49                   | 92                       | 1            | -                          | St         | 8             | -               | 1000.8                          | -2                            | SW 5                | o           | 50       | 92         | 5                  | -                          | St         | 10            | -      | -  | *     |   |
| †Calshot (Hants) ...                                                    | 1001.4                 | o                             | WSW 5               | T.      | 50                   | 98                       | 2            | 1-1500                     | Nb         | 10            | -               | 1003.4                          | +1                            | SW 6                | ef.         | 46       | 98         | 0                  | <500                       | St         | 10            | -      | -  | 3     |   |
| †Capel (Folkestone)                                                     | 1001.7                 | o                             | SW 5                | T       | 49                   | 98                       | 0            | <500                       | St         | 10            | -               | 1003.4                          | +1                            | SW 6                | ef.         | 46       | 98         | 0                  | <500                       | St         | 10            | -      | -  | -     |   |
| Aberdeen ...                                                            |                        |                               |                     |         |                      |                          |              |                            |            |               |                 | 993.6                           | +1                            | -                   | o           | om.      | 34         | 92                 | 5                          | -          | St. Cu        | 9      | -  | 3     |   |
| †East Fortune ...                                                       |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Framborough Head                                                       |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| †Felixstowe ...                                                         | 1000.8                 | -2                            | W 4                 | c       | 46                   | 98                       | 3            | 1-1500                     | St         | 7             | -               | 1001.7                          | +1                            | W 4                 | 3           | 45       | 98         | 6                  | 1-1500                     | St. Cu     | 7             | -      | -  | 4     |   |
| †Cranwell (Lincs)                                                       | 997.0                  | -2                            | SW 4                | bc      | 45                   | 92                       | 5            | 2-3000                     | St         | 2             | A. St           | 2                               | *                             | 998.5               | +1          | WNW 3    | o          | 45                 | 92                         | 4          | 2-3000        | St     | 6  | A. St | 4 |
| †Bedford ...                                                            |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    | *     |   |
| Benson ...                                                              | *                      | *                             | *                   | *       | *                    | *                        | *            | *                          | *          | *             | *               | 999.8                           | +2                            | SSW 4               | o           | 48       | 92         | -                  | -                          | cu         | 10            | -      | -  | *     |   |
| London ...                                                              | 1002.8                 | *                             | *                   | *       | *                    | *                        | *            | *                          | *          | *             | *               | 1001.3                          | +2                            | SW 2                | om.         | 48       | 92         | 3                  | 2-3000                     | St. Cu     | 3             | A. St  | 7  | *     |   |
| (M.O. at 1st)                                                           |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 18H.                            |                        |                               |                     |         |                      |                          |              |                            |            |               |                 |                                 |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| STATIONS.                                                               | BAROM.<br>at<br>M.S.L. | TEMP.                         | WIND.               | Weather | BAROMETER.           | TEMPERATURE.             | WIND.        | Dir. of<br>Upper<br>Cloud. | Weather.   | Sea           | Rainfall<br>mm. | TEMP.                           |                               |                     | WEATHER.    |          |            | Sunshine<br>Hours. |                            |            |               |        |    |       |   |
|                                                                         | m.b.                   | °F.                           | Dir. Force<br>0-12. |         | at<br>M.S.L.<br>m.b. | Change<br>in 3<br>hours. | Temp.<br>°F. |                            |            |               |                 | Change<br>in 24<br>hours.       | Dir. Force<br>0-12.           | Max.<br>°F.         | Min.<br>°F. | Morning. | Afternoon. |                    | Night.                     |            |               |        |    |       |   |
| 18H. G.M.T. OF 29 <sup>TH</sup>                                         |                        |                               |                     |         |                      |                          |              |                            |            |               |                 | 7H. G.M.T. OF 30 <sup>TH</sup>  |                               |                     |             |          |            |                    |                            |            |               |        |    |       |   |
| Lerwick ...                                                             | 989.2                  | 40                            | WSW 3               | bc      | 990.5                | +2                       | 39           | +2                         | -          | o             | -               | om                              | 1                             | 6                   | 43          | 31       | om.rq      | om.rq              | omr                        | *          |               |        |    |       |   |
| Stornoway ...                                                           | 987.2                  | 40                            | WSW 3               | bc      | 991.9                | +2                       | 35           | -1                         | SW 1       | -             | -               | b                               | 1                             | 2                   | 41          | 32       | bc         | bc                 | b                          | 1.0        |               |        |    |       |   |
| Castlebay(Barras)                                                       | 989.9                  | 44                            | W 3                 | bc      | 993.3                | o                        | 39           | -                          | -          | o             | -               | b                               | 2                             | 1                   | 45          | 38       | of.cbc     | of.cbc             | bc.of.b                    | 1.0        |               |        |    |       |   |
| Glasgow ...                                                             | 993.7                  | 41                            | SW 3                | b       | 996.2                | +2                       | 36           | o                          | SSW 2      | -             | -               | b                               | *                             | 3                   | 42          | 35       | od.bc      | od.bc              | bc.bx                      | 0.7        |               |        |    |       |   |
| Malin Head ...                                                          | 991.5                  | 42                            | WSW 3               | cp      | 992.6                | o                        | 40           | -4                         | SW 2       | SW            | bc              | 2                               | 2                             | 46                  | 39          | bc       | cp         | bc                 | 1.5                        |            |               |        |    |       |   |
| Blacksod Point                                                          | 994.4                  | 43                            | WNW 2               | omp     | 993.6                | -4                       | 41           | -3                         | SSE 2      | -             | bc              | 2                               | 2                             | 47                  | 35          | bc       | omp        | bc.bcm             | *                          |            |               |        |    |       |   |
| Roche's Point...                                                        | 996.2                  | 47                            | NW 6                | bc      | 995.4                | -6                       | 46           | -2                         | SE 4       | -             | o               | 4                               | 4                             | 51                  | 41          | or.om    | op.bc      | bc.o               | *                          |            |               |        |    |       |   |
| Birr Castle ...                                                         | 990.1                  | 43                            | S 1                 | c       | 996.3                | *                        | 44           | -                          | S 1        | -             | c               | *                               | -                             | 45                  | 35          | bc       | c          | c                  | 1.3                        |            |               |        |    |       |   |
| Donaghadee ...                                                          | 995.1                  | 49                            | W 2                 | om      | 996.6                | o                        | 36           | -7                         | W 1        | -             | bc              | 1                               | -                             | 46                  | 35          | bc       | bc         | cm                 | *                          |            |               |        |    |       |   |
| Liverpool(Bidston)                                                      | 995.9                  | 44                            | SSW 1               | o       | 997.5                | +1                       | 42           | -7                         | SSW 1      | -             | o               | 1                               | 6                             | 50                  | 41          | bc       | o          | or.o               | 2.3                        |            |               |        |    |       |   |
| Holyhead ...                                                            | 995.3                  | 44                            | SW 1                | og      | 996.7                | o                        | 44           | -4                         | WSW 2      | -             | opm             | 0                               | 5                             | 49                  | 42          | og       | c.ogp      | od.bep             | 0.1                        |            |               |        |    |       |   |
| Pembroke (St. Ann's Head)                                               | 997.2                  | 49                            | SW 3                | om      | 998.5                | o                        | 47           | -3                         | SW 3       | SW            | c               | 4                               | 6                             | 50                  | 46          | om       | opmg       | omp                | 0.0                        |            |               |        |    |       |   |
| Seilly (St. Mary's)                                                     | 999.5                  | 50                            | WSW 3               | cm      | 1001.1               | -1                       | 49           | -2                         | SW 4       | -             | om              | 5                               | 1                             | 52                  | 47          | om       | omc        | bc.omp             | 0.0                        |            |               |        |    |       |   |
| Jersey (St. Aubin)                                                      | 1003.1                 | 52                            | SSW 3               | adm     | 1005.5               | o                        | 48           | -4                         | SSW 3      | -             | oe              | 2                               | 4                             | 54                  | 48          | od.oe    | od.oe      | od.oe              | 0.0                        |            |               |        |    |       |   |
| Portland Bill ...                                                       | 1000.4                 | 50                            | WSW 4               | or      | 1001.1               | +1                       | 49           | -1                         | WSW 5      | -             | op              | 4                               | 2                             | 52                  | 46          | op.f.    | f.or       | c.op               | *                          |            |               |        |    |       |   |
| Dungeness ...                                                           | 1001.2                 | 49                            | SW 4                | r       | 1002.4               | *                        | 48           | -1                         | SW 4       | -             | c               | 4                               | 5                             | 50                  | 47          | op.od    | od.for     | or.c               | *                          |            |               |        |    |       |   |
| Wick ...                                                                | 987.3                  | 38                            | WSW 2               | c       | 991.5                | +1                       | 34           | -7                         | WSW 2      | -             | bc              | 3                               | 2                             | 42                  | 33          | omp      | om.c       | c.bc               | *                          |            |               |        |    |       |   |
| Nairn ...                                                               | 988.8                  | 40                            | SSW 2               | c       | 993.2                | *                        | 34           | -2                         | -          | o             | -               | bc                              | 1                             | -                   | 41          | 33       | og         | og                 | cg.c                       | 0.0        |               |        |    |       |   |
| Leith ...                                                               | 992.2                  | 42                            | SW 3                | bc      | 994.1                | o                        | 39           | o                          | SW 2       | -             | b               | 2                               | 1                             | 43                  | 38          | bm.o.c   | c.bcu.c    | bc.cob             | *                          |            |               |        |    |       |   |
| Tynemouth ...                                                           | 994.4                  | 42                            | W 2                 | bc      | 996.2                | *                        | 39           | -5                         | WSW 1      | -             | bc              | 2                               | 2                             | 49                  | 37          | omp      | cm         | om.omp             | *                          |            |               |        |    |       |   |
| Spurn Head ...                                                          | 997.9                  | 44                            | WNW 2               | om      | 997.3                | +2                       | 41           | -4                         | W 3        | -             | om              | 3                               | 2                             | 41                  | 38          | og       | om         | o                  | *                          |            |               |        |    |       |   |
| armouth (Gorleston)                                                     | 999.3                  | 48                            | WSW 2               | c       | 998.9                | +1                       | 47           | -1                         | WSW 2      | -             | bc              | 2                               | 2                             | 53                  | 44          | bc.bc    | cm         | bc.omp             | 0.9                        |            |               |        |    |       |   |
| acton-on-Sea                                                            | 1000.5                 | 40                            | SSW 3               | o       | 1001.2               | o                        | 45           | o                          | SSW 2      | -             | ce              | 2                               | 2                             | 47                  | 43          | c.bc.c   | c.o        | om.c               | 0.0                        |            |               |        |    |       |   |
| Nottingham ...                                                          | 947.3                  | 49                            | W 1                 | o       | 998.7                | *                        | 46           | -6                         | SW 2       | -             | o               | *                               | 3                             | 52                  | 44          | c.o      | om         | or                 | 0.0                        |            |               |        |    |       |   |

† Air Ministry Station.

\* Information for these columns not usually received.

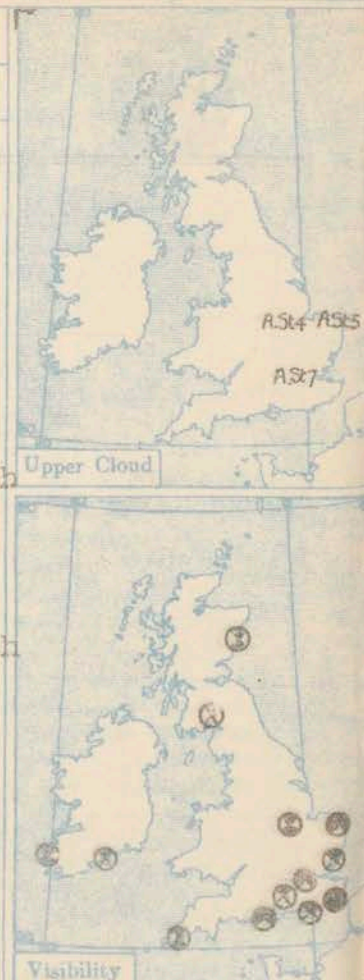
† The barometric change is expressed in half millibars.

‡ Longside † at 1H.



# SUMMARY OF CONDITIONS AT 7 A.M. Tuesday, 30th December, 1919

| Districts.                   | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation. | Visibility. | Sea.     |
|------------------------------|-----------------------------|--------------|-----------------------------------|-------------|----------|
| 1. S.E. England              | SW, 10-20                   | R.mild       | Cloudy, misty.                    | Poor        | Mod.     |
| 2. E. England                | S-W, 5-15                   | Mild         | Fair to cloudy.                   | Indiff.     | Slight   |
| 3. E. Midlands               | SW-W. 5-10                  | R.mild       | Dull.                             | "           | "        |
| 4. W. Midlands               | S-SW. 0-5                   | "            | "                                 | "           | "        |
| 5. S.W. England              | SW-W. 10-15                 | "            | Dull, some mist.                  | "           | Mod.     |
| 6. South Wales               | SW. 10-15                   | "            | Cloudy.                           | Fair        | "        |
| 7. North Wales               | S-W. 0-5                    | Normal       | Dull, showers, some mist.         | Indiff.     | Smooth   |
| 8. N.W. England              | S-SW. 0-5                   | "            | Fair to dull.                     | "           | V.smooth |
| 9. N. Midlands               | S-W. 0-5                    | "            | Dull.                             | "           | "        |
| 10. N.E. England             | SW-W. 0-5                   | "            | Fair to dull.                     | "           | Slight   |
| 11. E. Scotland              | S-W. 0-5                    | R.cool       | Fair to dull.                     | Fair        | "        |
| 12. S.W. Scotland            | S-SW. 0-5                   | Normal       | Fine to fair.                     | V.good      | V.smooth |
| 13. Isle of Man              | SW-W. 0-5                   | "            | Fair                              | Good        | "        |
| 14. N.&N.W.Scot-<br>land     | S-W. 0-5                    | R.cool       | Fair                              | "           | Smooth   |
| 15. Hebrides                 | SW. 0-5                     | "            | Fine to fair.                     | "           | "        |
| 16. Orkneys and<br>Shetlands | SW-W. 0-5                   | Normal       | Fair to dull.                     | Fair        | "        |
| 17. N.W. Ireland             | SE-SW. 0-5                  | R.cool       | Fair                              | "           | "        |
| 18. N.E. Ireland             | SW-W. 0-5                   | "            | Fair                              | "           | "        |
| 19. S.E. Ireland             | SE-S. 5-15                  | R.mild       | Cloudy to dull.                   | "           | Mod.     |
| 20. S.W. Ireland             | SE. 10-15                   | Normal       | Dull, some drizzle.               | "           | Slight   |



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for intervals of five 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 & clouded.  
 ⊙ sky & clouded. ⊙ sky & clouded.  
 ⊕ overcast sky. ⊕ rain falling.  
 \* snow. △ hail. ≡ fog. ≡ mist.  
 T thunder. T thunderstorm.  
**SEA DISTURBANCE.**—  
 Rough High

## GENERAL INFERENCE from observations received up to 9 A.M.

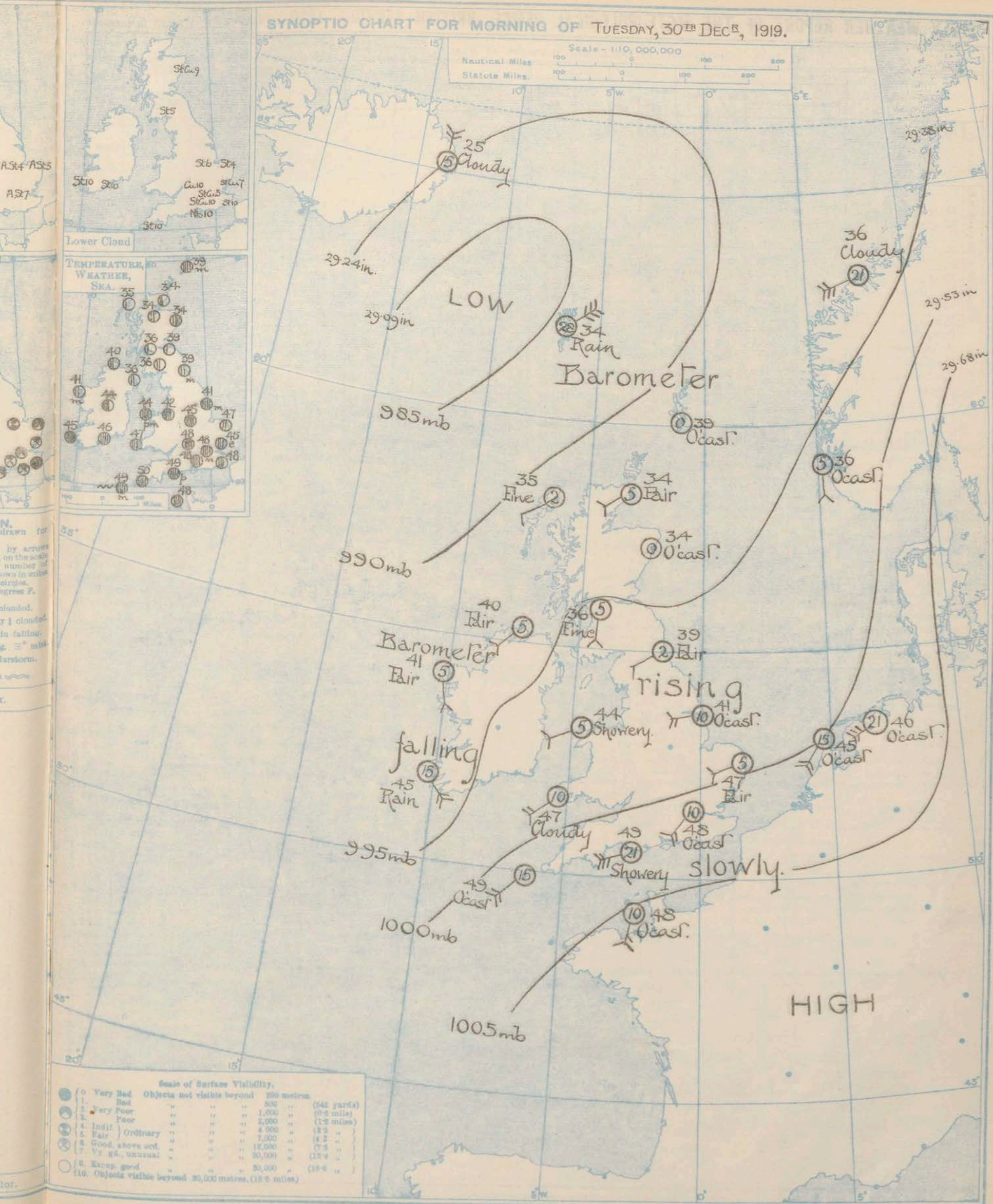
Another depression apparently of considerable intensity has appeared off the west of Ireland and will probably cross the British Isles in a north-easterly direction. Strong S.W. winds or gales followed by a veer are probable over England and Ireland, with a continuance of disturbed weather in all localities.

| Districts.                   | Forecasts for the 24 hours commencing 3 p.m. Tuesday, 30th December, 1919                                                                                                    | Further Outlook. |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1. S.E. England              | Strong S.W. winds. Rainy, some fine intervals later. Visibility indifferent, some mist. Mild.                                                                                | Withheld.        |
| 2. E. England                |                                                                                                                                                                              |                  |
| 3. E. Midlands               |                                                                                                                                                                              |                  |
| 4. W. Midlands               |                                                                                                                                                                              |                  |
| 5. S.W. England              | Gale from SE. to S. veering later. Rainy, then improving. Visibility poor then fair. Mild.                                                                                   |                  |
| 6. South Wales               |                                                                                                                                                                              |                  |
| 7. North Wales               |                                                                                                                                                                              |                  |
| 8. N.W. England              | Strong SE. wind reaching gale force at times. Some rain, improving later. Visibility indifferent at first, good later. Mild.                                                 |                  |
| 9. N. Midlands               |                                                                                                                                                                              |                  |
| 10. N.E. England             |                                                                                                                                                                              |                  |
| 11. E. Scotland              | Variable winds mainly between E. and S. Unsettled, some rain. Visibility poor to fair. Temperature moderate.                                                                 |                  |
| 12. S.W. Scotland            |                                                                                                                                                                              |                  |
| 13. Isle of Man              |                                                                                                                                                                              |                  |
| 14. N.&N.W.Scot-<br>land     | Wind S. to SW. strong to a gale, veering towards north later. Rainy at first, showers and fair intervals later. Visibility poor then improving. Mild at first, colder later. |                  |
| 15. Hebrides                 |                                                                                                                                                                              |                  |
| 16. Orkneys and<br>Shetlands |                                                                                                                                                                              |                  |
| 17. N.W. Ireland             |                                                                                                                                                                              |                  |
| 18. N.E. Ireland             |                                                                                                                                                                              |                  |
| 19. S.E. Ireland             |                                                                                                                                                                              |                  |
| 20. S.W. Ireland             |                                                                                                                                                                              |                  |



SYNOPTIC CHART FOR MORNING OF TUESDAY, 30<sup>TH</sup> DEC<sup>R</sup>, 1919.

Statute Miles



Scale of Surface Viability.

Objects not visible beyond 250 metres.

|     |                        |                             |   |        |   |             |
|-----|------------------------|-----------------------------|---|--------|---|-------------|
| 1.  | Bad                    | "                           | " | 500    | " | (542 yards) |
| 2.  | Very Poor              | "                           | " | 1,000  | " | (0.6 mile)  |
| 3.  | Poor                   | "                           | " | 2,000  | " | (1.2 miles) |
| 4.  | Indist.                | "                           | " | 4,000  | " | (2.5 "      |
| 5.  | Fair                   | "                           | " | 7,000  | " | (4.2 "      |
| 6.  | Good, above ord.       | "                           | " | 12,000 | " | (7.5 "      |
| 7.  | Vs. gd., unusual       | "                           | " | 20,000 | " | (12.5 "     |
| 8.  | Except. good           | "                           | " | 30,000 | " | (18.6 "     |
| 10. | Objects visible beyond | 20,000 metres, (12.6 miles) |   |        |   |             |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 364B

Tuesday  
30th December.

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 29 <sup>th</sup> |                        |           |            |              |              |                                       |                                     |                                               |                  |                      |      |            |              |              |                                       |                                     |                                               |           |  |
|------------------------------------------------------------------------------------|------------------------|-----------|------------|--------------|--------------|---------------------------------------|-------------------------------------|-----------------------------------------------|------------------|----------------------|------|------------|--------------|--------------|---------------------------------------|-------------------------------------|-----------------------------------------------|-----------|--|
| STATIONS.                                                                          |                        | WEATHER.  |            | TEMPERATURE. |              | RAINFALL.                             |                                     | SUNSHINE.                                     |                  | STATIONS.            |      | WEATHER.   |              | TEMPERATURE. |                                       | RAINFALL.                           |                                               | SUNSHINE. |  |
|                                                                                    |                        | Forenoon. | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-3h.<br>28 <sup>th</sup> | Day.<br>9h-12h.<br>29 <sup>th</sup> | Sunrise<br>to Sun-<br>set<br>29 <sup>th</sup> | Forenoon.        |                      |      | Afternoon. | Max.<br>° F. | Min.<br>° F. | Night.<br>12h-3h.<br>28 <sup>th</sup> | Day.<br>9h-12h.<br>29 <sup>th</sup> | Sunrise<br>to Sun-<br>set<br>29 <sup>th</sup> |           |  |
| Scotland.                                                                          | Oban ... ..            | ro        | po         | 45           | 35           | 8                                     | 1                                   | 0.2                                           | England,<br>N.W. | Douglas (I.O.M.)     |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    | Banff ... ..           | bcc       | bcb        | 40           | 36           | 5                                     | -                                   | 0.3                                           |                  | Blackpool ... ..     | c    | c          | 48           | 39           | 8                                     | -                                   | 0.8                                           |           |  |
|                                                                                    | Montrose ... ..        |           |            |              |              |                                       |                                     |                                               |                  | Southport ... ..     | co   | oc         | 48           | 39           | 8                                     | -                                   | 0.1                                           |           |  |
|                                                                                    | St. Andrews ... ..     | -         | -          | 41           | 35           | 22                                    | -                                   | 3.2                                           |                  |                      |      |            |              |              |                                       |                                     |                                               |           |  |
| England, N.E.                                                                      | Harrogate ... ..       | bcb       | bbebc      | 48           | 35           | 10                                    | -                                   | 5.2                                           | Midlands.        | Buxton ... ..        |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    | Skegness ... ..        | bbe       | oro        | 50           | 39           | 5                                     | 0.1                                 | 1.7                                           |                  | Leamington Spa... .. | oc   | co         | 52           | 44           | 6                                     | 1                                   | 0.4                                           |           |  |
|                                                                                    |                        |           |            |              |              |                                       |                                     |                                               |                  | Malvern ... ..       |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    |                        |           |            |              |              |                                       |                                     |                                               |                  | Ross-on-Wye ... ..   | oco  | ogdr       | 52           | 47           | 2                                     | 4                                   | 0.0                                           |           |  |
| England, E.                                                                        | Felixstowe ... ..      | ogm       | ogm        | 49           | 37           | 6                                     | -                                   | 0.2                                           | Wales.           | Rhyl ... ..          | rcbc | cpo        | 51           | 36           | 3                                     | 1                                   | 2.5                                           |           |  |
|                                                                                    | Walton-on-Naze... ..   |           |            |              |              |                                       |                                     |                                               |                  | Colwyn Bay ... ..    | -    | -          | 50           | 41           | 4                                     | -                                   | 0.3                                           |           |  |
|                                                                                    | Southend-on-Sea... ..  | obc       | bco        | 52           | 36           | 6                                     | -                                   | 0.3                                           |                  | Llandudno ... ..     | cb   | cp         | 52           | 41           | 3                                     | 0.4                                 | 1.5                                           |           |  |
|                                                                                    | Lewesraft ... ..       | oc        | com        | 52           | 42           | 7                                     | -                                   | 0.2                                           |                  | Aberystwyth ... ..   | roc  | o          | 50           | 46           | x                                     | x                                   | 0.0                                           |           |  |
| England, S.E.                                                                      | Margate ... ..         | bcc       | cor        | 54           | 39           | 10                                    | -                                   | 0.0                                           | England, S.W.    | Weymouth ... ..      | o    | opdo       | 52           | 47           | 8                                     | 1                                   | 0.0                                           |           |  |
|                                                                                    | Ramsgate ... ..        | o         | o          | 52           | 42           | 10                                    | -                                   | 0.0                                           |                  | Teignmouth ... ..    |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    | Folkestone ... ..      | om        | dr         | 49           | 46           | 9                                     | 1                                   | 0.0                                           |                  | Torquay ... ..       | od   | od         | 53           | 44           | 4                                     | 1                                   | 0.0                                           |           |  |
|                                                                                    | Hastings ... ..        | orf       | fr         | 51           | 45           | 6                                     | 2                                   | 0.0                                           |                  | Paignton ... ..      | o    | or         | 53           | 51           | 3                                     | 1                                   | 0.0                                           |           |  |
|                                                                                    | Eastbourne ... ..      | or        | r          | 52           | 45           | 15                                    | 3                                   | 0.0                                           |                  | Penzance ... ..      | oc   | cp         | 53           | 48           | 8                                     | 1                                   | 0.0                                           |           |  |
|                                                                                    | Brighton ... ..        | om        | or         | 49           | 45           | 11                                    | 1                                   | 0.0                                           |                  | Newquay ... ..       | -    | -          | 52           | 51           | 4                                     | -                                   | 0.0                                           |           |  |
|                                                                                    | Worthing ... ..        | o         | odm        | 50           | 45           | 11                                    | x                                   | 0.0                                           |                  | Bude ... ..          |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    | Littlehampton ... ..   | cmr       | fc         | 51           | 48           | 13                                    | 1                                   | 0.0                                           |                  | Ilfracombe ... ..    | op   | op         | 52           | 45           | 1                                     | 6                                   | 0.0                                           |           |  |
|                                                                                    | Bournemouth ... ..     | -         | -          | 52           | 40           | 12                                    | 1                                   | 0.0                                           |                  | Weston-s-Mare ... .. | obcc | crc        | 53           | 40           | 8                                     | 0.3                                 | 0.0                                           |           |  |
|                                                                                    | Tunbridge Wells ... .. | o         | od         | 53           | 43           | 5                                     | -                                   | 0.0                                           |                  |                      |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    |                        |           |            |              |              |                                       |                                     |                                               |                  |                      |      |            |              |              |                                       |                                     |                                               |           |  |
|                                                                                    |                        |           |            |              |              |                                       |                                     |                                               |                  |                      |      |            |              |              |                                       |                                     |                                               |           |  |

| STATIONS.                  | SUMMARIES FOR PAST 24 HOURS. |            |                  |                  |                       |                       |                             |                |                  |     | Sun.<br>Hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BEAUFORT NOTATION. | THE BEAUFORT SCALE OF WIND FORCE. |                      |  |
|----------------------------|------------------------------|------------|------------------|------------------|-----------------------|-----------------------|-----------------------------|----------------|------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|----------------------|--|
|                            | WEATHER                      |            |                  |                  | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min.<br>on<br>Grass<br>° F. | RAINFALL.      |                  | No. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    | Limits of Velocity.               |                      |  |
|                            | 7h-13h29*                    | 13h-18h29* | 18h29-1h30*      | 1h-7h30*         |                       |                       |                             | Day.<br>7h-18h | Night.<br>18h-7h |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    | Statute miles<br>per hour.        | Metres per<br>second |  |
| †Houton Bay (Orkney)...    |                              |            |                  |                  |                       |                       | *                           | *              | *                | *   | b blue sky (not more than a quarter covered).<br>bc sky partly cloudy (one half covered).<br>c generally cloudy (three quarters covered).<br>d drizzle, or fine rain.<br>e wet air without rain falling.<br>f fog. g gloom.<br>h hail. i lightning.<br>m mist.<br>o overcast sky.<br>p passing showers.<br>q squalls.<br>r rain.<br>rs sleet, i.e., rain and snow together.<br>s snow.<br>t thunder.<br>u ugly, threatening sky.<br>v unusual visibility.<br>w dew.<br>x hoar frost.<br>y dry air; humidity less than 60 per cent.<br>z dust haze: the turbid atmosphere of dry weather. | No.                | Statute miles<br>per hour.        | Metres per<br>second |  |
| Eskdalemuir ... ..         | ormo                         | odco       | o.or.odm         | odmebc           | 45                    | 35                    | 32                          | 1              | 1                | 0.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Stranraer ... ..          |                              |            |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Lough Foyle ... ..        |                              |            |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| Valencia (Cahirciveen) ... | op                           | ord        | cbcp.c.or        |                  | 49                    | 33                    | 34                          | 10             | 1                | 0.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Anglesey (Llangefni) ...  |                              |            |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| Falmouth ... ..            | om                           | mfc.pq     | o.cp.c           | c.o              | 52                    | 48                    | 47                          | 1              | 1                | 0.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Calshot (Hants) ... ..    | o                            | rom        | r                | r                | 52                    | 47                    | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Capel (Folkestone)...     | of <sub>2</sub>              | ofc        | ef.rho           | gef <sub>2</sub> | 50                    | 46                    | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| Aberdeen ... ..            | om.bcm                       | bcm.bm     | bcm.om           |                  | 43                    | 34                    | 28                          | 0.1            | -                | 1.5 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †East Fortune ... ..       | 3.9                          | bccz       |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Framborough Head ...      | c                            |            |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Felixstowe ... ..         | co3                          | eq         | dif <sub>2</sub> | c.o3             | 50                    | 35                    | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Cranwell (Lincs) ...      |                              | op         | p.b.c            | b.c.o            | 52                    | 43                    | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| †Bedford ... ..            |                              |            |                  |                  |                       |                       | *                           | *              | *                | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| Benson ... ..              | oc                           | o          | op.o             |                  | 52                    | 47                    | 42                          | -              | 0.4              | *   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |
| London (Kew Obsy.) ...     | cm.bcz                       | bczo.om    | od.op.om         |                  | 53                    | 43                    | 43                          | trace          | 1                | 0.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                                   |                      |  |

Symbols—  
Aurora      ☽ Solar halo  
Rime        ☾ Lunar halo  
Glazed frost ☼ Solar corona  
Glazed roads ☾ Lunar corona

| LONDON.<br>OBSERVATIONS.       | WEATHER.                      |            |         | Max.<br>Temp.<br>° F. | Min.<br>Temp.<br>° F. | Min. on<br>Grass.<br>° F. | Rain-<br>fall,<br>mm. | Sun-<br>shine to<br>Sunset,<br>Hours. | Humidity %.     |                | SOUTH KENSINGTON<br>(Meteorological Office).                                              | TABLE SHOWING THE GREENWICH TIMES OF<br>SUNRISE, NOON AND SUNSET FOR STATIONS<br>IN THE UNITED KINGDOM. |          |                            |         |
|--------------------------------|-------------------------------|------------|---------|-----------------------|-----------------------|---------------------------|-----------------------|---------------------------------------|-----------------|----------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------|----------------------------|---------|
|                                | Morning                       | Afternoon. | Night.  |                       |                       |                           |                       |                                       | 15 h.<br>G.M.T. | 9 h.<br>G.M.T. |                                                                                           |                                                                                                         |          |                            |         |
|                                | 24 HOURS ENDED 9h G.M.T. 30th |            |         |                       |                       |                           |                       |                                       | YESTERDAY.      |                |                                                                                           | TO-DAY.                                                                                                 |          | 30th & 31st December 1919. |         |
| Greenwich (Royal Observatory)  | o                             | c          | c.or    | 54                    | 47                    | 39                        | 2                     | 0.3                                   | 81              | 83.            | Vertical Component<br>of<br>Solar Radiation<br>per Square Centimetre<br>during yesterday. | Stations.                                                                                               | Sunrise. | Noon.                      | Sunset. |
| City (Bunhill Row) ...         | *                             | *          | *       | *                     | *                     | *                         | *                     | 0.0                                   | *               | *              |                                                                                           | G.M.T.                                                                                                  | G.M.T.   | G.M.T.                     |         |
| Westminster (St. James's Park) | *                             | *          | *       | 55                    | 49                    | 43                        | 1                     | 0.0                                   | 76              | 82             |                                                                                           | Yarmouth...                                                                                             | 8.6      | 11.56                      | 3.46    |
| " (Admiralty Arch)             | om.bcm                        | cm.om      | orm.bcm | 55                    | 50                    | *                         | 1                     | 0.0                                   | 86              | 89             |                                                                                           | Greenwich                                                                                               | 8.6      | 11.56                      | 3.46    |
| Camden Sq. (British Rainfall)  | c                             | b.om       | *       | 54                    | 47                    | 31                        | 1                     | *                                     | -               | 88             | Total ..... 174 ..... Joules.<br><br>Milliwatts.                                          | Wick ...                                                                                                | 8.8      | 12.3                       | 3.58    |
| Kensington Palace ...          | o                             | o          | *       | 54                    | 46                    | 42                        | 1                     | *                                     | 90 (19)         | 90             |                                                                                           | Valencia ...                                                                                            | 8.8      | 12.3                       | 3.51    |
| Average Rate. 6.2              |                               |            |         |                       |                       |                           |                       |                                       |                 |                | Wick ...                                                                                  |                                                                                                         |          |                            |         |
| Maximum Rate. 12               |                               |            |         |                       |                       |                           |                       |                                       |                 |                | Valencia ...                                                                              |                                                                                                         |          |                            |         |

## NOTES ON THE WEATHER OF YESTERDAY.

Except in parts of Ireland and the north of Scotland slight rainfall occurred in all localities. The day was dull in most districts, sunshine being almost nil. At Harrogate, however, 5.2 hours were enjoyed. Temperature remained above the normal, the maximum being generally above 50° in the south of England.

† Air Ministry Station.

\* Information for these columns not usually received.



Day  
umber, 19



METEOROLOGICAL OFFICE, LONDON.  
DAILY WEATHER REPORT, BRITISH SECTION.

No 21,223. B WEDNESDAY, 31<sup>ST</sup> DECEMBER, 1919.

| OBSERVATORIES AND STATIONS CONTRIBUTING REPORTS AT 1H, 7H, 12H AND 15H. |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
|-------------------------------------------------------------------------|------------------------|--------------------------|-----------------|----------------|----------|----------------------------|----------------|--------------------------|-------------------------------------|--------------------------------|---------------|-----------------------|-----------------|----------------------|---------------------------------|--------------------------|------------------------|--------------------|--------------------|--------------|----------------|----------------------|-------------------------------------|---------------------|---------------|-----------------------|---------------|--------------|--|
| STATIONS.                                                               | Barom.<br>at<br>M.S.L. | Change<br>in 3<br>hours. | Wind.<br>Direc. | Force<br>0-12. | Weather. | TEMP.<br>°F.               | Humidity.<br>% | Visibility.<br>0-10.     | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud.<br>Form.            | Amt.<br>0-10. | Upper Cloud.<br>Form. | Amt.<br>0-10.   | Sea.<br>0-3.         | Barom.<br>at<br>M.S.L.          | Change<br>in 3<br>hours. | Wind.<br>Direc.        | Force<br>0-12.     | Weather.           | TEMP.<br>°F. | Humidity.<br>% | Visibility.<br>0-10. | Height<br>of Low<br>Cloud.<br>Feet. | Low Cloud.<br>Form. | Amt.<br>0-10. | Upper Cloud.<br>Form. | Amt.<br>0-10. | Sea.<br>0-3. |  |
|                                                                         | m.b.                   |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      | m.b.                            |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| 13H. G.M.T. OF 30 <sup>TH</sup>                                         |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      | 18H. G.M.T. OF 30 <sup>TH</sup> |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Houton B.(Orkney)                                                      | 996.1                  | -1                       | -               | 0              | 0        | 36                         | 98             | 6                        | 1-1500                              | Sc                             | 10            | -                     | -               | *                    | 992.1                           | -5                       | NE                     | 4                  | 0                  | 35           | 92             | 5                    | -                                   | Sc                  | 10            | -                     | -             | *            |  |
| †Eskdalemuir ...                                                        |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Stranraer ...                                                          |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Lough Foyle ...                                                        |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Valencia (Cahire'n)                                                    | 983.8                  | -8                       | S               | 4              | OT       | 47                         | 92             | 7                        | 1-2000                              | Sc                             | 10            | -                     | -               | *                    | 982.0                           | -1                       | SW                     | 2                  | C                  | 46           | 92             | 7                    | 1-1500                              | Sc                  | 8             | -                     | -             | *            |  |
| †Anglesey (Llangefni)                                                   |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Falmouth ...                                                           | 994.8                  | -7                       | SSW             | 6              | OT       | 51                         | 92             | 4                        | -                                   | Nb                             | 10            | -                     | -               | *                    | 989.4                           | -4                       | WSW                    | 8                  | OM                 | 50           | 92             | 3                    | -                                   | Sc                  | 10            | -                     | -             | *            |  |
| †Calshot (Hants) ...                                                    | 1000.8                 | -2                       | SW              | 5              | d        | 49                         | 98             | 4                        | 1-1000                              | Nb                             | 10            | -                     | -               | *                    | 993.3                           | -5                       | SSW                    | 6                  | OT                 | 60           | 98             | 2                    | 1-1000                              | Nb                  | 10            | -                     | -             | *            |  |
| †Capel (Folkestone)                                                     | 1004.1                 | 0                        | SW              | 6              | r.f.     | 46                         | 98             | 2                        | 1-1000                              | Sc                             | 10            | -                     | -               | *                    | 999.0                           | -6                       | SW                     | 6                  | OT                 | 43           | 98             | 0                    | <500                                | Nb                  | 10            | -                     | -             | *            |  |
| Aberdeen ...                                                            | 995.1                  | 0                        | -               | 0              | cm       | 38                         | 82             | 2                        | -                                   | Sc                             | 2             | -                     | -               | 3                    | 995.2                           | 0                        | WSW                    | 1                  | bm                 | 33           | 92             | 3                    | -                                   | -                   | -             | -                     | -             | 3            |  |
| †East Fortune ...                                                       | 995.4                  | -1                       | SSW             | 2              | C        | 41                         | 87             | 5                        | 3-4000                              | Nb                             | 2             | A.St                  | 5               | *                    | 993.8                           | -2                       | -                      | 0                  | CZ                 | 33           | 92             | -                    | 3-4000                              | Sc                  | 3             | A.St                  | 4             | *            |  |
| †Flamborough Head                                                       |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Felixstowe ...                                                         | 1002.9                 | -1                       | W               | 4              | d        | 46                         | 98             | 4                        | 1-1500                              | Sc                             | 10            | -                     | -               | 4                    | 994.0                           | -4                       | SE                     | 3                  | OT                 | 43           | 98             | 2                    | 1-1500                              | Nb                  | 10            | -                     | -             | *            |  |
| †Cranwell (Lines)                                                       | 998.2                  | -2                       | SSW             | 3              | 0        | 48                         | 92             | 7                        | 2-3000                              | Sc                             | 5             | C.St                  | 3               | *                    | 992.1                           | -7                       | SSW                    | 5                  | OT                 | 47           | 98             | 4                    | 1-1500                              | Nb                  | 10            | -                     | -             | *            |  |
| †Bedford ...                                                            |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| Benson ...                                                              | 998.0                  | -5                       | SSW             | 4              | d        | 49                         | 98             | 5                        | -                                   | -                              | -             | -                     | -               | *                    | 992.3                           | -5                       | S                      | 5                  | OT                 | 60           | 98             | 4                    | -                                   | Nb                  | 10            | -                     | -             | *            |  |
| London (Kew Ob.)                                                        | 1000.4                 | -5                       | SSW             | 4              | OT       | 51                         | 87             | 5                        | 1-2000                              | Sc                             | 3             | A.St                  | 1               | *                    | 994.7                           | -8                       | S                      | 4                  | OT                 | 50           | 92             | 5                    | 1-2000                              | Nb                  | 10            | -                     | -             | *            |  |
| 1H. G.M.T. OF 31 <sup>ST</sup>                                          |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      | 7H. G.M.T. OF 31 <sup>ST</sup>  |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Houton B.(Orkney)                                                      | 985.1                  | -8                       | NE              | 4              | OT       | 39                         | 98             | 4                        | -                                   | Nb                             | 7             | A.St                  | 3               | *                    | 982.4                           | 0                        | N                      | 4                  | 0                  | 39           | 87             | 6                    | -                                   | Sc                  | 10            | -                     | -             | *            |  |
| †Eskdalemuir ...                                                        |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Stranraer ...                                                          |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Lough Foyle ...                                                        | 994.9                  | +10                      | NW              | 8              | OT       | 41                         | *              | *                        | *                                   | *                              | *             | *                     | *               | G                    | 999.4                           | +4                       | NW                     | 3                  | b                  | 42           | 82             | 8                    | -                                   | Sc                  | 2             | -                     | -             | *            |  |
| †Valencia (Cahire'n)                                                    |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Anglesey (Llangefni)                                                   |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Falmouth ...                                                           | 986.4                  | -2                       | WSW             | 6              | cg       | 48                         | 87             | 4                        | -                                   | Sc                             | 7             | -                     | -               | *                    | 995.6                           | +10                      | WNW                    | 8                  | bc                 | 44           | 75             | 5                    | -                                   | Sc                  | 4             | -                     | -             | *            |  |
| †Calshot (Hants) ...                                                    |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Capel (Folkestone)                                                     | 997.0                  | 0                        | SW              | 7              | r        | 43                         | 98             | 7                        | 1-2000                              | Sc                             | 9             | -                     | -               | *                    | 987.3                           | -11                      | SW                     | 8                  | OT                 | 45           | 98             | 5                    | <500                                | Sc                  | 10            | -                     | -             | *            |  |
| Aberdeen ...                                                            |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †East Fortune ...                                                       |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| †Flamborough Head                                                       | 984.6                  | -6                       | SE              | 5              | 0        | 44                         | 98             | 1                        | 1-1500                              | Sc                             | 10            | -                     | -               | *                    | 981.3                           | +4                       | NNE                    | 6                  | rs                 | 35           | 98             | -                    | 2-3000                              | Nb                  | 10            | -                     | -             | *            |  |
| †Felixstowe ...                                                         | 992.3                  | -4                       | W               | 4              | bc       | 46                         | 98             | 3                        | 1-1000                              | Sc                             | 4             | -                     | -               | 4                    | 981.7                           | -4                       | WSW                    | 5                  | q                  | 45           | 98             | 4                    | 1-1500                              | Sc                  | 7             | -                     | -             | *            |  |
| †Cranwell (Lines)                                                       | 985.6                  | -4                       | S               | 4              | C        | 47                         | 92             | 6                        | 1-2000                              | Sc                             | 4             | A.St                  | 2               | *                    | 981.8                           | -3                       | SSW                    | 3                  | r                  | 44           | 98             | 5                    | 1-2000                              | Nb                  | 10            | -                     | -             | *            |  |
| †Bedford ...                                                            |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| Benson ...                                                              |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| London (Kew Ob.)                                                        | 992.8                  | -1                       | *               | *              | *        | *                          | *              | *                        | *                                   | *                              | *             | *                     | *               | *                    | 984.4                           | -5                       | SSW                    | 4                  | bc                 | 47           | 87             | 5                    | 2-3000                              | Sc                  | 5             | -                     | -             | *            |  |
| STATIONS CONTRIBUTING REPORTS AT 7H AND 15H.                            |                        |                          |                 |                |          |                            |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| STATIONS.                                                               | Barom.<br>at<br>M.S.L. | TEMP.<br>°F.             | Wind.<br>Direc. | Force<br>0-12. | Weather. | Barometer.<br>at<br>M.S.L. | TEMP.<br>°F.   | Change<br>in<br>3 hours. | Wind.<br>Direc.                     | Force<br>0-12.                 | Weather.      | Sea.<br>0-3.          | Rainfall<br>mm. | TEMP.<br>Max.<br>°F. | TEMP.<br>Min.<br>°F.            | Weather.<br>Morning.     | Weather.<br>Afternoon. | Weather.<br>Night. | Sunshine<br>Hours. |              |                |                      |                                     |                     |               |                       |               |              |  |
|                                                                         | m.b.                   |                          |                 |                |          | m.b.                       |                |                          |                                     |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| 15H. G.M.T. OF 30 <sup>TH</sup>                                         |                        |                          |                 |                |          |                            |                |                          |                                     | 7H. G.M.T. OF 31 <sup>ST</sup> |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |
| Lerwick ...                                                             | 994.2                  | 37                       | S               | 1              | bc       | 991.5                      | -5             | 37                       | -2                                  | -                              | 0             | -                     | bc              | 0                    | 1                               | 40                       | 36                     | cm                 | bc                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Stornoway ...                                                           | 993.3                  | 32                       | -               | 0              | b        | 989.8                      | -1             | 35                       | 0                                   | -                              | 0             | -                     | b               | 0                    | -                               | 38                       | 29                     | b.c.c              | c.b                |              |                |                      |                                     |                     |               |                       |               |              |  |
| Castlebay(Barras)                                                       | 992.0                  | 40                       | N               | 2              | bc       | 990.4                      | 0              | 39                       | N                                   | 1                              | -             | -                     | OT              | 2                    | -                               | 46                       | 32                     | bc                 | bc                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Glasgow ...                                                             | 992.4                  | 35                       | RNE             | 3              | om       | 984.7                      | +2             | 35                       | N                                   | 3                              | -             | ers                   | 12              | 37                   | 32                              | bc                       | bc                     | bc                 | bc                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Malin Head ...                                                          | 987.9                  | 41                       | E               | 3              | C        | 988.4                      | +2             | 41                       | NW                                  | 5                              | NW            | cy                    | 3               | 1                    | 45                              | 36                       | bc                     | C                  | cap                |              |                |                      |                                     |                     |               |                       |               |              |  |
| Blacksod Point                                                          | 986.2                  | 40                       | SE              | 4              | OT       | 994.6                      | +4             | 40                       | NNW                                 | 2                              | -             | bc                    | 3               | 10                   | 43                              | 37                       | om                     | om                 | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Roche's Point...                                                        | 982.9                  | 47                       | W               | 3              | OT       | 997.1                      | +6             | 41                       | NNW                                 | 3                              | -             | b                     | 4               | 6                    | 50                              | 39                       | om                     | r.op               | cp.o.b             |              |                |                      |                                     |                     |               |                       |               |              |  |
| Birr Castle ...                                                         | 979.8                  | 47                       | WNW             | 1              | r        | 994.0                      | *              | 37                       | W                                   | 2                              | -             | bc                    | *               | 10                   | 47                              | 32                       | or                     | od.or              | c.bc               |              |                |                      |                                     |                     |               |                       |               |              |  |
| Donaghadee ...                                                          | 988.8                  | 43                       | ESE             | 5              | om       | 986.1                      | +4             | 37                       | NNW                                 | 5                              | -             | om                    | 5               | 30                   | 44                              | 33                       | bc                     | om                 | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Liverpool(Bidston)                                                      | 987.6                  | 46                       | ESE             | 3              | m        | 980.7                      | 0              | 43                       | SW                                  | 2                              | -             | om                    | 2               | 1                    | 48                              | 42                       | f                      | om                 | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Holyhead ...                                                            | 984.3                  | 48                       | SE              | 4              | OT       | 984.7                      | +7             | 41                       | NNW                                 | 3                              | -             | op                    | 7               | 9                    | 48                              | 39                       | c.c                    | cp.orm             | om.cbc             |              |                |                      |                                     |                     |               |                       |               |              |  |
| Pembroke (St Ann's Head)                                                | 986.2                  | 49                       | S               | 4              | OT       | 983.8                      | +8             | 43                       | NW                                  | 8                              | -             | cy                    | 6               | 5                    | 48                              | 42                       | om                     | or                 | op.c.og            |              |                |                      |                                     |                     |               |                       |               |              |  |
| Scilly (St Mary's)                                                      | 987.8                  | 49                       | SW              | 4              | C        | 988.5                      | +6             | 46                       | NW                                  | 8                              | -             | bc                    | 6               | 9                    | 52                              | 46                       | om                     | cp                 | bc.pq              |              |                |                      |                                     |                     |               |                       |               |              |  |
| Jersey (St Aubin)                                                       | 999.0                  | 51                       | S               | 4              | OT       | 994.3                      | +3             | 47                       | W                                   | 7                              | W             | bc                    | 4               | 6                    | 52                              | 46                       | ce                     | c.o.d              | bc.pq              |              |                |                      |                                     |                     |               |                       |               |              |  |
| Portland Bill ...                                                       | 992.4                  | 50                       | WSW             | 7              | OT       | 986.8                      | +2             | 44                       | W                                   | 7                              | -             | cy                    | 5               | 15                   | 51                              | 43                       | og                     | og                 | cp                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Dungeness ...                                                           | 998.0                  | 49                       | SSW             | 7              | r        | 987.1                      | *              | 48                       | SW                                  | 7                              | SW            | cy                    | 6               | 6                    | 51                              | 47                       | c.p.c                  | c.or               | g.or.cq            |              |                |                      |                                     |                     |               |                       |               |              |  |
| Wick ...                                                                | 994.4                  | 32                       | SW              | 2              | b        | 988.2                      | -4             | 37                       | NW                                  | 2                              | -             | om                    | 2               | -                    | 38                              | 26                       | bc                     | bc                 | b.b.m.om           |              |                |                      |                                     |                     |               |                       |               |              |  |
| Nairn ...                                                               | 993.7                  | 28                       | -               | 0              | b        | 987.9                      | *              | 36                       | W                                   | 2                              | -             | om                    | 1               | 3                    | 36                              | 27                       | bc                     | bc                 | bc.cq              |              |                |                      |                                     |                     |               |                       |               |              |  |
| Leith ...                                                               | 992.2                  | 38                       | SE              | 1              | 0        | 981.1                      | +1             | 37                       | NNE                                 | 6                              | -             | r                     | 4               | 21                   | 41                              | 35                       | b.c.c                  | o.c.m              | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Tynemouth ...                                                           | 993.5                  | 42                       | SE              | 3              | om       | 990.0                      | *              | 44                       | S                                   | 3                              | -             | cm                    | 3               | 10                   | 45                              | 37                       | bc                     | f                  | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Spurn Head ...                                                          | 993.7                  | 43                       | SE              | 4              | f        | 981.2                      | -5             | 42                       | S                                   | 5                              | -             | bc                    | 4               | 5                    | 40                              | 36                       | bc                     | f                  | om                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Yarmouth (Gorleston)                                                    | 998.4                  | 43                       | SSW             | 4              | r        | 987.9                      | -3             | 45                       | SSW                                 | 3                              | -             | bc                    | 3               | 5                    | 49                              | 44                       | bc                     | or                 | om.c               |              |                |                      |                                     |                     |               |                       |               |              |  |
| Clacton-on-Sea                                                          | 997.9                  | 46                       | S               | 5              | r        | 986.3                      | -5             | 46                       | S                                   | 6                              | -             | cg                    | 5               | 5                    | 47                              | 43                       | og                     | og                 | og                 |              |                |                      |                                     |                     |               |                       |               |              |  |
| Nottingham ...                                                          | 994.1                  | 44                       | S               | 3              | op       | 981.5                      | *              | 43                       | SW                                  |                                |               |                       |                 |                      |                                 |                          |                        |                    |                    |              |                |                      |                                     |                     |               |                       |               |              |  |

† Air Ministry Station.

\* Information for these columns not usually received.

† The barometric change is expressed in half millibars. ‡ Longside



# SUMMARY OF CONDITIONS AT 7 A.M. Wednesday, 31st December, 1919

| Districts.                | Wind.<br>Velocity in m.p.h. | Temperature. | Weather, Cloud and Precipitation. | Visibility. | Sea.     |
|---------------------------|-----------------------------|--------------|-----------------------------------|-------------|----------|
| 1. S.E. England           | S-SW. 30-40                 | R. mild      | Squally, mist and drizzle         | Fair        | Rough    |
| 2. E. England             | S-SW. 20-30                 | "            | Fair generally, some drizzle.     | Poor        | Mod.     |
| 3. E. Midlands            | S-SW. 10-15                 | "            | Dull.                             | Fair        | "        |
| 4. W. Midlands            | S-SW. 0-10                  | "            | "                                 | "           | "        |
| 5. S.W. England           | W-NW. 30-40                 | Normal       | Squally, fair generally.          | "           | Rough    |
| 6. South Wales            | "                           | "            | Squally. Dull.                    | Indiff.     | "        |
| 7. North Wales            | NW-N. 35-50                 | "            | Squally, passing showers.         | "           | "        |
| 8. N.W. England           | N. 20-30                    | "            | Dull, some rain.                  | "           | Slight   |
| 9. N. Midlands            | SW-W. 10-20                 | R. mild      | Dull.                             | "           | "        |
| 10. N.E. England          | S. 5-15                     | "            | Fair to dull.                     | Fair        | Slight   |
| 11. E. Scotland           | N-NE. 20-40                 | R. cool      | Squally, drizzle, sleet.          | Indiff.     | "        |
| 12. S.W. Scotland         | NW-N. 15-25                 | "            | Rainy.                            | Good        | R. rough |
| 13. Isle of Man           | NW-N. 20-30                 | "            | "                                 | Fair        | Rough    |
| 14. N. & N.W. Scotland    | Var. 0-10                   | Normal       | Dull, some rain.                  | "           | Slight   |
| 15. Hebrides              | Calm                        | R. cool      | Fine                              | Good        | Smooth   |
| 16. Orkneys and Shetlands | "                           | "            | Fair, misty.                      | Fair        | "        |
| 17. N.W. Ireland          | NW-N. 5-15                  | "            | Fair generally, squally.          | Good        | Slight   |
| 18. N.E. Ireland          | NW-N. 15-20                 | "            | Rainy                             | Fair        | Rough    |
| 19. S.E. Ireland          | W-N. 10-20                  | "            | Fair                              | Good        | Rough    |
| 20. S.W. Ireland          | W-NW. 5-10                  | "            | Fine to fair.                     | "           | Mod.     |

GENERAL INFERENCE from observations received up to 9 A.M.

The deep depression centred over Northern England will continue to move north-eastward. The wind current over the British Isles will then be between West and North and colder weather is probable generally. Snow may be anticipated in the north.

**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn at intervals of five 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 + clouded. ☁☁ sky + cloudy.  
 ☁☁☁ overcast sky. ☁☁☁ rain falling.  
 \* snow. \* hail. = fog. = thunder.  
**SEA DISTURBANCE.**—Rough High

| Districts.                                                                   | Forecasts for the 24 hours commencing 3 p.m. Wednesday, 31st December, 1919                                                                    |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands         | Wind between W. and NW., strong at first, then moderating. Squally. Mainly fair, but some passing showers. Visibility fair to good. Colder.    |
| 5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England       | Fresh or strong NW. wind moderating later, squally. Mainly fair but some showers of rain, hail or sleet. Visibility fair to good. Rather cold. |
| 9. N. Midlands<br>10. N.E. England<br>11. E. Scotland                        | Wind N., strong to a gale moderating later. Rain, hail or sleet with poor visibility, improving later. Cold.                                   |
| 12. S.W. Scotland<br>13. Isle of Man                                         | Same as for 5-8                                                                                                                                |
| 14. N. & N.W. Scotland<br>15. Hebrides<br>16. Orkneys and Shetlands          | Moderate Wly. winds. Cloudy or dull, some rain or snow. Visibility fair to good. Cold.                                                         |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Moderate winds between SW. and NW. Fair to cloudy, some local showers. Visibility good. Moderate temperature.                                  |

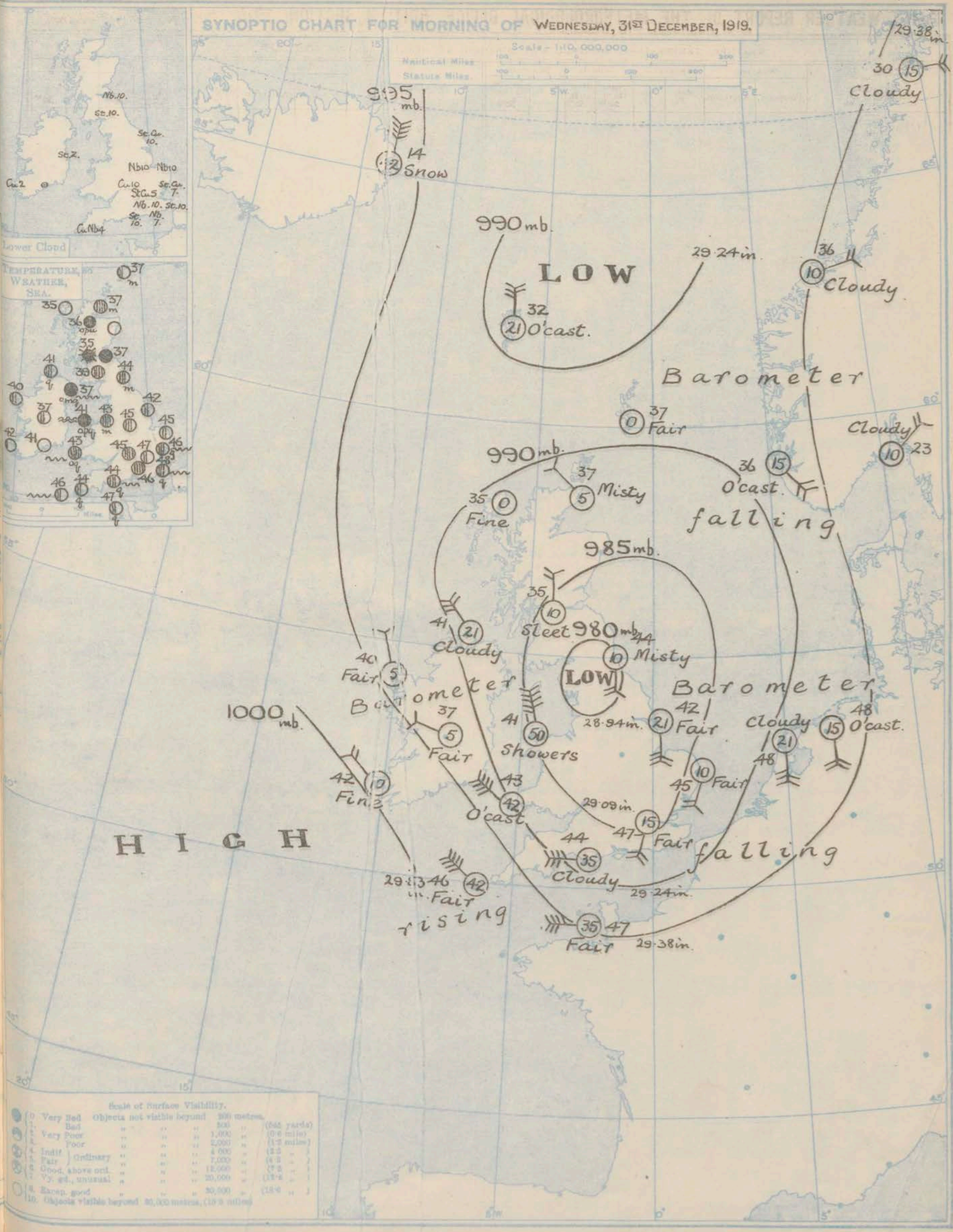
Further Outlook.

The general distribution favours the development of further disturbances within the next day or two.



# SYNOPTIC CHART FOR MORNING OF WEDNESDAY, 31<sup>ST</sup> DECEMBER, 1919.

Scale - 1:10,000,000  
Nautical Miles  
Statute Miles



Scale of Surface Visibility.

| Symbol | Very Bad                                          | Bad                                | Poor                               | Indist.                            | Ordinary                           | Fair                                | Good, above ord.                    | Very good, unusual                  | Excellent, good                                      | Objects visible beyond 30,000 metres (100 miles) |
|--------|---------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------|--------------------------------------------------|
| 1      | Objects not visible beyond 300 metres (300 yards) |                                    |                                    |                                    |                                    |                                     |                                     |                                     |                                                      |                                                  |
| 2      |                                                   | Objects not visible beyond 1,000 " |                                    |                                    |                                    |                                     |                                     |                                     |                                                      |                                                  |
| 3      |                                                   |                                    | Objects not visible beyond 2,000 " |                                    |                                    |                                     |                                     |                                     |                                                      |                                                  |
| 4      |                                                   |                                    |                                    | Objects not visible beyond 4,000 " |                                    |                                     |                                     |                                     |                                                      |                                                  |
| 5      |                                                   |                                    |                                    |                                    | Objects not visible beyond 7,000 " |                                     |                                     |                                     |                                                      |                                                  |
| 6      |                                                   |                                    |                                    |                                    |                                    | Objects not visible beyond 12,000 " |                                     |                                     |                                                      |                                                  |
| 7      |                                                   |                                    |                                    |                                    |                                    |                                     | Objects not visible beyond 20,000 " |                                     |                                                      |                                                  |
| 8      |                                                   |                                    |                                    |                                    |                                    |                                     |                                     | Objects not visible beyond 30,000 " |                                                      |                                                  |
| 9      |                                                   |                                    |                                    |                                    |                                    |                                     |                                     |                                     | Objects not visible beyond 30,000 metres (100 miles) |                                                  |



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, BRITISH SECTION, 1919. No. 365B

Wednesday  
31<sup>st</sup> December

| WEATHER, TEMPERATURE, RAINFALL AND SUNSHINE AT HEALTH RESORTS FOR 30 <sup>th</sup> |                     |          |           |             |          |                                |                              |                                    |  |
|------------------------------------------------------------------------------------|---------------------|----------|-----------|-------------|----------|--------------------------------|------------------------------|------------------------------------|--|
| STATIONS.                                                                          |                     | WEATHER  |           | TEMPERATURE |          | RAINFALL                       |                              | SUNSHINE                           |  |
|                                                                                    |                     | Forenoon | Afternoon | Max. °F.    | Min. °F. | Night 10h-9h. 29 <sup>th</sup> | Day 9h-10h. 30 <sup>th</sup> | Sunrise to Sunset 30 <sup>th</sup> |  |
| Scotland.                                                                          | Oban ...            | oc       | bc b      | 40          | 34       | 4                              | -                            | 13                                 |  |
|                                                                                    | Banff ...           | b        | bx        | 41          | 29       | -                              | -                            | 51                                 |  |
|                                                                                    | Montrose ...        |          |           |             |          |                                |                              |                                    |  |
|                                                                                    | St. Andrews ...     |          |           |             |          |                                |                              |                                    |  |
| England, N.E.                                                                      | Harrogate ...       | o        | of        | 41          | 37       | 4                              | 0.1                          | 0.0                                |  |
|                                                                                    | Skegness ...        | ocor     | odr       | 47          | 43       | 4                              | 3                            | 0.3                                |  |
|                                                                                    |                     |          |           |             |          |                                |                              |                                    |  |
|                                                                                    |                     |          |           |             |          |                                |                              |                                    |  |
| England, E.                                                                        | Felixstowe ...      | ogm      | ogqr      | 47          | 45       | 1                              | 2                            | 0.0                                |  |
|                                                                                    | Walton-on-Naze ...  |          |           |             |          |                                |                              |                                    |  |
|                                                                                    | Southend-on-Sea ... | or       | or        | 49          | 44       | 2                              | 4                            | 0.2                                |  |
|                                                                                    | Lowestoft ...       | om       | omr       | 49          | 44       | 2                              | 1                            | 0.0                                |  |
| England, S.E.                                                                      | Margate ...         | c        | or        | 51          | 47       | 1                              | 3                            | 0.0                                |  |
|                                                                                    | Ramsgate ...        | o        | o         | 48          | 44       | 2                              | 0.2                          | 0.0                                |  |
|                                                                                    | Folkestone ...      | edc      | dr        | 49          | 46       | 4                              | 3                            | 0.0                                |  |
|                                                                                    | Hastings ...        | oto      | r         | 50          | 46       | 3                              | 2                            | 0.0                                |  |
|                                                                                    | Eastbourne ...      | cor      | r         | 51          | 48       | 12                             | 6                            | 0.0                                |  |
|                                                                                    | Brighton ...        | o        | r         | 49          | 47       | 1                              | 10                           | 0.0                                |  |
|                                                                                    | Worthing ...        | o        | r         | 50          | 47       | 3                              | 7                            | 0.0                                |  |
|                                                                                    | Littlehampton ...   | om       | gr        | 51          | 48       | 1                              | 12                           | 0.0                                |  |
|                                                                                    | Bournemouth ...     |          |           | 51          | 47       | 5                              | 2                            | 0.0                                |  |
|                                                                                    | Tunbridge Wells ... | or       | or        | 50          | 46       | 3                              | 12                           | 0.0                                |  |
|                                                                                    |                     |          |           |             |          |                                |                              |                                    |  |
|                                                                                    |                     |          |           |             |          |                                |                              |                                    |  |
| England, S.W.                                                                      | Weymouth ...        | or       | or        | 52          | 49       | 2                              | 13                           | 0.0                                |  |
|                                                                                    | Teignmouth ...      |          |           |             |          |                                |                              |                                    |  |
|                                                                                    | Torquay ...         | or       | or        | 52          | 50       | 1                              | 12                           | 0.0                                |  |
|                                                                                    | Paignton ...        | op       | orq       | 53          | 49       | 1                              | 6                            | 0.0                                |  |
| England, N.W.                                                                      | Penzance ...        | odr      | or        | 52          | 49       | 3                              | 8                            | 0.0                                |  |
|                                                                                    | Newquay ...         | opo      | oro       | 52          | 48       | 0.4                            | 8                            | 0.0                                |  |
|                                                                                    | Bude ...            |          |           | 53          | 46       | 3                              | 1                            | 0.0                                |  |
|                                                                                    | Ilfracombe ...      | o.or     | or        | 52          | 49       | 1                              | 14                           | 0.0                                |  |
| England, N.W.                                                                      | Weston-s-Mare ...   | c.c      | r         | 52          | 47       | 5                              | 4                            | 0.0                                |  |
|                                                                                    |                     |          |           |             |          |                                |                              |                                    |  |

| SUMMARIES FOR PAST 24 HOURS. |  |                         |                          |                          |                        |                |                |                   |                                                  |
|------------------------------|--|-------------------------|--------------------------|--------------------------|------------------------|----------------|----------------|-------------------|--------------------------------------------------|
| STATIONS.                    |  | WEATHER                 |                          | TEMPERATURE              |                        | RAINFALL       |                | SUN.              |                                                  |
|                              |  | 7h-13h 30 <sup>th</sup> | 13h-18h 30 <sup>th</sup> | 18h-24h 30 <sup>th</sup> | 1h-7h 30 <sup>th</sup> | Max. Temp. °F. | Min. Temp. °F. | Min. on Grass °F. | Rainfall Day 7h-13h Night 13h-18h 7h-13h 18h-24h |
| †Houton Bay (Orkney)...      |  | bc.c. ofed              | o                        | o.orm                    | orm.o                  | 40             | 33             | 35                | - 23 0.0                                         |
| †Stranraer ...               |  |                         |                          |                          |                        |                |                |                   |                                                  |
| †Lough Foyle ...             |  |                         |                          |                          |                        |                |                |                   |                                                  |
| Valencia (Cahirciveen) ...   |  | odr                     | orc                      | o.cp.bc                  |                        | 51             | 41             | 38                | 4 2 0.0                                          |
| †Anglesey (Llangefni) ...    |  |                         |                          |                          |                        |                |                |                   |                                                  |
| Falmouth ...                 |  | org                     | orefg                    | cp.bcg                   | qgh                    | 51             | 42             | 39                | 17 3 0.4                                         |
| †Calshot (Hants) ...         |  | do                      | rg                       | rg                       | rg                     | 50             | 43             | *                 | *                                                |
| †Capel (Folkestone) ...      |  | efg                     | rof                      | T <sub>2</sub> q         | T <sub>1</sub>         | 49             | 45             | *                 | *                                                |
| Aberdeen ...                 |  | bcm.bm                  | cm.bmx                   | bmxor                    |                        | 40             | 31             | 27                | - 16 1.6                                         |
| †East Fortune ...            |  | b.bcz                   | bcc                      | rs.g                     |                        | 42             | 33             | *                 | *                                                |
| †Flamborough Head ...        |  |                         | of                       | c.ot <sub>1</sub>        | q                      | 46             | 36             | *                 | *                                                |
| †Felixstowe ...              |  | g.d.                    | rg                       | gr <sub>1</sub>          | bc.cq                  | 48             | 43             | *                 | *                                                |
| †Cranwell (Lincs) ...        |  | co                      | or                       | T <sub>1</sub> c.o       | bc.cp <sub>1</sub>     | 49             | 41             | *                 | *                                                |
| †Bedford ...                 |  |                         |                          |                          |                        |                |                |                   |                                                  |
| Benson ...                   |  | o                       | or                       | no                       |                        | 50             | 45             | 42                | 4 5                                              |
| London (Kew Obsy.) ...       |  | om.adm                  | ogmor                    | onq.c.enbc               |                        | 51             | 47             | 43                | 5 2 0.0                                          |

| LONDON OBSERVATIONS.                      |  |         |           |             |                |                |                   |                  |                          |
|-------------------------------------------|--|---------|-----------|-------------|----------------|----------------|-------------------|------------------|--------------------------|
|                                           |  | WEATHER |           | TEMPERATURE |                | RAINFALL       |                   | SUNSHINE         |                          |
|                                           |  | Morning | Afternoon | Night       | Max. Temp. °F. | Min. Temp. °F. | Min. on Grass °F. | Rainfall mm.     | Sunshine to Sunset Hours |
| Greenwich (Royal Observatory)             |  | o       | oor       | oro         | 51             | 44             | 38                | 0                | 0.0                      |
| City (Bunhill Row) ...                    |  | *       | *         | *           | *              | *              | *                 | 0.0              | *                        |
| Westminster (St. James's Park)            |  | *       | *         | *           | 52             | 43             | 41                | 7                | 0.0                      |
| " (Admiralty Arch)                        |  | omr     | org       | org         | 52             | 45             | *                 | 0                | 0.0                      |
| Camden Sq. (British Rainfall)             |  |         |           | *           | 51             | 42             | 41                | 6                | *                        |
| Kensington Palace ...                     |  | o       | or        | *           | 52             | 43             | 42                | 6                | *                        |
| 24 HOURS ENDED 9H G.M.T. 31 <sup>st</sup> |  |         |           |             |                |                |                   | YESTERDAY        |                          |
|                                           |  |         |           |             |                |                |                   | 30 <sup>th</sup> |                          |
|                                           |  |         |           |             |                |                |                   | 31 <sup>st</sup> |                          |
|                                           |  |         |           |             |                |                |                   | 32               |                          |
|                                           |  |         |           |             |                |                |                   | 33               |                          |
|                                           |  |         |           |             |                |                |                   | 34               |                          |
|                                           |  |         |           |             |                |                |                   | 35               |                          |
|                                           |  |         |           |             |                |                |                   | 36               |                          |
|                                           |  |         |           |             |                |                |                   | 37               |                          |
|                                           |  |         |           |             |                |                |                   | 38               |                          |
|                                           |  |         |           |             |                |                |                   | 39               |                          |
|                                           |  |         |           |             |                |                |                   | 40               |                          |
|                                           |  |         |           |             |                |                |                   | 41               |                          |
|                                           |  |         |           |             |                |                |                   | 42               |                          |
|                                           |  |         |           |             |                |                |                   | 43               |                          |
|                                           |  |         |           |             |                |                |                   | 44               |                          |
|                                           |  |         |           |             |                |                |                   | 45               |                          |
|                                           |  |         |           |             |                |                |                   | 46               |                          |
|                                           |  |         |           |             |                |                |                   | 47               |                          |
|                                           |  |         |           |             |                |                |                   | 48               |                          |
|                                           |  |         |           |             |                |                |                   | 49               |                          |
|                                           |  |         |           |             |                |                |                   | 50               |                          |
|                                           |  |         |           |             |                |                |                   | 51               |                          |
|                                           |  |         |           |             |                |                |                   | 52               |                          |
|                                           |  |         |           |             |                |                |                   | 53               |                          |
|                                           |  |         |           |             |                |                |                   | 54               |                          |
|                                           |  |         |           |             |                |                |                   | 55               |                          |
|                                           |  |         |           |             |                |                |                   | 56               |                          |
|                                           |  |         |           |             |                |                |                   | 57               |                          |
|                                           |  |         |           |             |                |                |                   | 58               |                          |
|                                           |  |         |           |             |                |                |                   | 59               |                          |
|                                           |  |         |           |             |                |                |                   | 60               |                          |

NOTES ON THE WEATHER OF YESTERDAY.

Rain again fell in nearly all districts, considerable falls being reported in many localities (Donaghadee 30 mm., Eskdalemuir 23 mm., Leith 21 mm.) The day was generally overcast over the greater part of the Kingdom but 5 hours of sunshine were recorded in the north of Scotland. Weather continued generally mild, the maximum being above 50° at most Southern stations. At Glasgow, however, the maximum was no higher than 37°, the minimum being 22°. Gales from between SW. and NW. occurred during the night in the south and west.