M.O. Form 2610

METEOROLOGICAL OFFICE,

LONDON.

DAILY WEATHER REPORTS

1st JULY TO 31st DECEMBER, 1917.

MAP SHOWING THE POSITIONS OF THE METEOROLOGICAL STATIONS THE OBSERVATIONS FROM WHICH ARE USED IN THE PREPARATION OF THE DAILY WEATHER REPORT.

Scale 1:2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

VARDÖ
ARCHANGEL
BODÖ
Haparanda
Uleaborg
Kuopio
Isafjord
Akureyri
Seydisfjord
Reykjavik
Vestmanna
Thorshavn
CHRISTIANSUND
HERNÖSAND
PETROGRAD
Helsingfors
HANGÖ
STOCKHOLM
MOSCOW
VELIEKI LUKI
LERWICK
Karlstad
FAERDER
DEERNESS
SKUDESNAES
STORNOWAY
WICK
WISBY
RIGA
GORKI
SKAGEN
Memel
CASTLEBAY
NAIRN
ABERDEEN
COPENHAGEN
BORNHOLM
New Fahrwasser
MALIN HEAD
GLASGOW
LEITH
BLAAVAND'S HUK
ESKDALE
TYNEMOUTH
Swinemünde
Warsaw
KIEV
KHARKOV
BLACKSOD POINT
DONAGHADEE
Cuxhaven
HOLYHEAD
BIRR CASTLE
LIVERPOOL
SPURN HEAD
Groningen
Berlin
Breslau
Cracow
Lemberg
ELIZABETGRAD
NICOLAIEV
VALENCIA
NOTTINGHAM
THE HELDER
YARMOUTH
Utrecht
Cassel
HARTLAND QUAY
BENSON
KEW
CLACTON
COVER
Flushing
Brussels
Frankfort
Prague
KISHINEV
ODESSA
TARKHANKOUT
PORTLAND BILL
C. GRIS NEZ
SCILLY
FALMOUTH
LA HEVE
JERSEY
PARIS
Carlsruhe
Manich
Vienna
Buda Pesth
Hermannstadt
BREST
Le Mans
Bucharest
Lugano
Trieste
ROCHEFORT
Limoges
LYON
VENICE
Turin
PESARO
Lesina
NICE
Leghorn
Florence
VIESTI
CORUNNA
Bilbao
BIARRITZ
Toulouse
C. Sicié
PERPIGNAN
ROME
SANTA CRUZ
Angra
HORTA
PT. DELGADA
OPORTO
Barcelona
SANGUINAIRE
Naples
BRINDISI
PATRAS
ATHENS
MADRID
LISBON
Palma
CAGLIARI
CANDIA
PALERMO
Alicante
Cape De Garde
ALGIERS
Tunis
MALTA
San Fernando
Malaga
GIBRALTAR
Sétif
Oran
Biskra
Sfax
Nemours
Laghouat
MADEIRA

25° 20° 15° 10° 5° 0° 5° 10° 15° 20° 25° 30° 35° 40° 45° 50° 55°
60° 55° 50° 45° 40° 35° 30°

M.O.45. 625. 8/18.

Receipt of inform… …cations shown in italics is temporarily suspended.

WYMAN & SONS LTD M.O. PRESS, LONDON, S.W.

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.	AIR TEMPERATURE.							RAINFALL 1881–1915.			BRIGHT SUNSHINE. 1881–1915.	
			Means of			Absolute Extremes.								
			1906–1915.	1881–1915.		1881–1915.								
						Maximum.		Minimum.						
		7 a.m. Observations (reduced to M.S. Level).	Dry Bulb 7 a.m.	Daily Maximum.	Daily Minimum.	Temp.	Year.	Temp.	Year.	Days with Rain.	Total Fall.		Daily Mean.	Per Centage of Possible Duration.
		mb.	°F.	°F.	°F.	°F.		°F.			mm.	in.	hr.	%
OCTOBER.	Lerwick	1011·2	47·3	50·1	42·3	63	1908	28	1887	24	100	3·95	—	—
	Stornoway	1010·0	47·1	52·2	41·2	70	1898	27	1892	23	132	5·18	2·77	28
	Castlebay (Barra Isd.)	[1011·6]§	[50·5]§	[53·6]§	[47·7]§	[63]§	[1908]§	[34]§	[1909, 1913]§	[20]§	[86]§	[3·39]§	[2·55]§	[25]§
	Eskdalemuir	[1014·4]¶	[42·4]¶	[51·5]‖	[38·5]‖	[65]‖	[1910]‖	[19]‖	[1911]‖	[15]‖	[100]‖	[3·93]‖	[2·39]‖	[23]‖
	Malin Head	1009·3	49·3	[53·2]*	[45·6]*	[73]*	[1908]*	[32]*	[1892]*	[20]*	[75]*	[2·95]*	—	—
	Blacksod Point	1009·4	51·0	[54·7]*	[46·0]*	[71]*	[1908]*	[29]*	[1905]*	[23]*	[127]*	[4·99]*	—	—
	Valencia	1010·2	51·2	56·4	46·6	71	1908	28	1892	22	142	5·57	3·26	31
	Roche's Point	1011·2	51·0	56·2	46·4	65	1884, 86, 1914, 15	32	1881	19	104	4·09	—	—
	Birr Castle	1010·7	46·8	55·0	40·7	74	1908	22	1905	18	74	2·91	3·16	30
	Donaghadee	1011·3	49·2	54·3	44·3	66	1898	21	1892	18	73	2·88	—	—
	Liverpool (Observatory)	1012·5	47·9	54·1	44·8	73	1908	27	1895	18	83	3·27	[2·81]§	[27]§
	Holyhead	1011·5	51·3	55·1	46·9	75	1908	32	1892	19	101	3·99	[2·87]**	[28]**
	Pembroke (St. Ann's Hd.)	1011·4	51·6	55·6	48·1	67	1908	33	1895	19	106	4·19	3·29	31
	Scilly (St. Mary's)	1011·3	53·2	57·5	50·1	69	1895	38	1895, 1896	21	93	3·66	3·81	36
	Falmouth	1012·5	51·0	56·3	47·7	67	1895	33	1895	21	126	4·96	3·74	35
	Jersey (St. Aubin's)	1013·3	53·4	59·0	49·1	76	1908	33	1887	20	116	4·55	4·06	38
	Portland Bill	1012·2	53·8	56·9	48·8	[67]†	[1908]†	[35]†	[1905, 1908]†	17	94	3·68	—	—
	Dungeness	1013·2	52·1	57·4	46·0	70	1886, 1908	23	1890	17	89	3·52	—	—
	Dover	[1015·5]§	[50·7]§	[57·5]§	[46·6]§	[74]§	[1908]§	[30]§	[1909]§	[18]§	[106]§	[4·18]§	[3·81]§	[36]§
	Wick	1011·0	47·0	52·2	41·0	73	1898	22	1885	21	75	2·96	—	—
	Nairn	1010·9	44·2	53·1	39·0	76	1908	19	1896	19	60	2·35	[3·29]‡	[33]‡
	Aberdeen	1012·2	46·6	52·8	41·7	74	1883	25	1880	20	76	3·00	3·06	30
	Leith	1011·9	47·7	54·8	42·1	75	1908	25	1894	17	61	2·41	—	—
	Tynemouth	1012·6	47·9	54·1	42·4	77	1908	27	1890, 92, 95, 1909	17	76	3·01	—	—
	Spurn Head	1012·8	50·7	54·6	45·9	70	1900	33	1887, 1895	17	61	2·40	[2·68]**	[26]**
	Yarmouth	1013·6	50·6	55·2	45·3	74	1900, 1908	27	1895	18	74	2·93	[3·35]§	[32]§
	Clacton-on-Sea	1013·7	51·0	55·7	45·7	[71]‡	[1908]‡	[29]‡	[1905]‡	14	49	1·91	3·61	35
	Nottingham	1013·3	46·6	55·3	41·7	78	1908	20	1850	19	63	2·49	2·68	26
	LONDON (Kew Obsy.)	1013·9	48·5	56·2	43·5	77	1886	25	1881, 1895	17	69	2·70	2·97	28
NOVEMBER.	Lerwick	1005·3	42·3	46·2	38·9	58	1901	24	1912	25	108	4·25	—	—
	Stornoway	1007·2	42·1	47·6	38·0	58	1897, 1901, 02	21	1912	24	148	5·83	1·43	19
	Castlebay (Barra Isd.)	[1007·8]§	[45·4	[48·5]§	41·6]§	56]§	1914]§	[28]§	1912]§	[24]§	[101]§	[3·96]§	[1·57]§	[20]§
	Eskdalemuir	[1009·4]¶	[37·6]¶	[43·2]‖	32·1]‖	54]‖	1914]‖	[6]‖	[1912]‖	[20]‖	154]‖	[6·05]‖	2·03]‖	[25]‖
	Malin Head	1008·4	44·6	[48·6]*	41·7]*	59]*	[1894, 99, 1906]*	[30]*	[1909, 1912]*	[21]*	[83]*	[3·28]*	—	—
	Blacksod Point	1010·3	46·1	[50·2]*	42·0]*	66]*	[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
	Scilly (St. Mary's)	1013·2	48·7	53·2	46·3	61	1898	29	1890	20	83	3·27	2·50	28
	Falmouth	1013·9	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	51·7	44·3	[61]†	[1900]†	[29]†	[1912]†	14	66	2·58	—	—
	Dungeness	1012·2	44·4	50·7	40·7	63	1899	17	[illegible]	16	70	2·75	—	—
	Dover	[1012·9]§	42·[illegible]§	[48·9]	[38·6]§	[60]§	[1914]§	[25]§	[illegible]	[16]§	[78]§	[3·07]§	[2·90]§	[33]§
	Wick	1006·6	41·5	46·9	37·0	62	1900	12	1909	20	80	3·14	—	—
	Nairn	1007·5	39·8	46·9	35·4	62	1906	12	1904	19	60	2·36	[1·70]‡	[22]‡
	Aberdeen	1008·3	40·7	46·8	37·4	62	1883	14	1909	19	75	2·95	1·83	23
	Leith	1009·0	42·0	48·5	38·0	63	1885	18	1885	15	50	1·95	—	—
	Tynemouth	1009·9	41·8	48·4	38·1	62	1894	20	1912	16	54	2·13	—	—
	Spurn Head	1010·4	43·8	48·2	40·8	61	1894, 1895	28	1884	16	47	1·85	[1·90]**	[23]**
	Yarmouth	1011·6	43·3	48·5	39·6	60	1895, 98, 99, 1904	23	1890	18	61	2·41	[2·33]§	[27]§
	Clacton-on-Sea	1012·4	43·0	48·5	39·7	[60]‡	[1908]‡	[25]‡	1904]‡	15	47	1·86	2·33	27
	Nottingham	1011·9	40·7	48·4	37·1	63	1895	13	1904	19	48	1·88	1·37	16
	LONDON (Kew Obsy.)	1013·2	41·9	49·1	38·8	52	1881, 94, 95	21	1901	16	56	2·22	1·73	20
DECEMBER.	Lerwick	1000·9	40·4	43·6	36·6	53	1890, 1905	19	1909	27	122	4·79	—	—
	Stornoway	1000·9	40·3	44·4	35·4	55	1898, 1913	16	1912	26	159	6·25	0·74	12
	Castlebay (Barra Isd.)	[1000·5]§	[44·1]§	[46·9]§	[40·1]§	[54]§	[1912]§	[26]§	[1912]§	[26]§	[146]§	[5·74]§	[0·77]§	[12]§
	Eskdalemuir	[1003·9]¶	[36·7]¶	[42·1]‖	[33·0]‖	[52]‖	[1910, 12]‖	[8]‖	[1912]‖	[26]‖	[204]‖	[8·04]‖	[0·74]‖	[11]‖
	Malin Head	1001·6	42·3	[45·7]*	[38·6]*	[55]*	[1900, 04, 13]*	[28]*	[1906, 1909]*	[24]*	[85]*	[3·35]*	—	—
	Blacksod Point	1003·0	44·4	[47·5]*	[39·9]*	[59]*	[1899]*	[25]*	[1906]*	[26]*	[155]*	[6·12]*	—	—
	Valencia	1005·8	45·4	49·8	41·1	57	1884, 88, 99, 1900	24	1886	26	169	6·64	1·32	17
	Roche's Point	1006·9	44·5	48·8	40·4	57	1906	25	1882	23	135	5·32	—	—
	Birr Castle	1005·2	40·5	46·1	35·0	58	1900	10	1882	21	84	3·29	1·39	19
	Donaghadee	1004·4	41·8	45·9	37·2	56	1885, 88, 94, 1909, 12, 13	21	1909	21	81	3·17	—	—
	Liverpool (Observatory)	1006·7	41·2	44·8	36·8	59	1891, 98, 1900	17	1882, 1890	19	67	2·65	[1·39]§	[19]§
	Holyhead	1005·8	44·5	46·9	39·9	56	1888	26	1890, 1902	20	106	4·16	[1·77]**	[24]**
	Pembroke (St. Ann's Hd.)	1006·9	45·5	48·1	41·3	57	1899, 1902	19	1890	22	115	4·52	1·35	18
	Scilly (St. Mary's)	1008·6	47·6	50·7	44·0	58	1899, 1900	30	1890	23	111	4·36	1·81	23
	Falmouth	1009·5	45·5	48·8	41·6	57	1899	25	1886, 1890	23	159	6·27	1·77	22
	Jersey (St. Aubin's)	1011·5	46·2	48·8	41·1	59	1898	22	1890	22	105	4·15	1·87	23
	Portland Bill	1009·1	46·5	48·1	41·2	[56]†	[1906, 07, 13]†	[24]†	[1908]†	19	75	2·94	—	—
	Dungeness	1009·5	43·2	46·2	37·1	56	1897, 98, 1900, 07	12	1890	17	70	2·77	—	—
	Dover	[1010·2]§	[42·4]§	[46·7]§	[38·4]§	[54]§	[1912, 14, 15]§	[18]§	[1908]§	[21]§	[105]§	[4·12]§	[1·45]§	[19]§
	Wick	1001·3	39·3	43·6	34·3	58	1905, 1907	10	1906	22	78	3·08	—	—
	Nairn	1001·9	37·4	43·0	32·1	58	1900	8	1912	19	56	2·22	[1·16]‡	[18]‡
	Aberdeen	1003·3	38·5	42·9	34·2	57	1885, 98, 1906, 10, 12	6	1882	19	82	3·22	1·16	18
	Leith	1003·8	40·5	44·8	35·0	60	1896	6	1882	17	51	2·00	—	—
	Tynemouth	1005·2	40·0	44·3	34·7	59	1898	19	1882, 86, 91, 92, 1908	16	55	2·18	—	—
	Spurn Head	1006·5	40·7	43·6	36·4	56	1898, 1912	19	1891	16	51	1·99	[1·32]**	[18]**
	Yarmouth	1008·6	40·6	43·6	35·2	60	1901	18	1899, 1906	18	62	2·44	[1·23]§	[16]§
	Clacton-on-Sea	1009·6	40·8	43·4	35·8	[55]‡	[1904]‡	[17]‡	[1908]‡	15	45	1·77	1·52	20
	Nottingham	1007·7	39·9	44·2	33·9	59	1912	9	1908	20	61	2·39	0·90	12
	LONDON (Kew Obsy.)	1009·8	41·4	44·7	35·9	57	1882, 88 1902, 05, 07	11	1890	17	58	2·29	1·19	16

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

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

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

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

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‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,463. SATURDAY, 1ST DECEMBER. 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature did not exceed 43° at Lerwick but generally it was again above 50°, as high as 58° at Skegness. Rain fell in most places, heavily in the far north, 24 mm. at Deerness and Stornoway. Snow fell in Shetland, As a rule there was no sunshine. A SW. gale was felt locally in the west and north.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h...30TH NOVEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 30th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, N.	Banff	14	4	47	37	or	or.o	0·0
	Montrose	4	–	53	40	o	o	0·0
	St. Andrews	*	*	53	41	o	o	0·0
Eng. N.E.	Harrogate	1	–	53	48	o.bc	bc	0·6
	Skegness	–	–	58	46	bc	o	0·6
England, E.	Felixstowe	–	–	51	46	cm	cm	0·0
	Southend-on-Sea	–	–	51	47	c	o	0·0
England, S.E.	Margate	–	–	53	49	o	o	0·0
	Hastings	–	–	53	49	o	o	0·0
	Eastbourne	–	–	53	50	bc.o	o.c	0·0
	Seaford	*	*	52	48	o	o	0·0
	Worthing	–	–	52	49	o	o	0·0
	Littlehampton							
	Bournemouth	–	–	52	48	o	o	0·0
Scotland, W.	Oban	16	14	52	51	or	o	0·0
Eng. N.W.	Morecambe	–	–	52	49	*	*	0·1
	Southport	–	–	52	49	o.c.o	o.c.o	0·0
Midlands.	Malvern	–	–	52	48	c	c	1·0
	Ross-on-Wye	–	–	52	48	o	c	0·0
Wales.	Rhyl	–	–	55	49	c.bc	c	0·4
	Colwyn Bay	–	–	55	50	bc	bc	0·6
	Llandudno	*	*	56	48	oc	c	0·5
	Aberystwyth	*	*	52	50	r.o.c	c.o	0·0
England, S.W.	Weymouth	*	*	53	51	bc.c	c	0·0
	Torquay	–	–	52	50	c	c.o	0·4
	Paignton	*	*	52	49	c	c	0·0
	Penzance	–	–	53	49	o	c.o	0·0
	Newquay	–	–	51	48	.o	o	0·0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 30TH NOVEMBER.....

	STATIONS.	Evening of 29th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 30th: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	981·6	19	WSW	5	S									*	
	Hangö	990·0	39	WNW	2	T									*	
	Yuriev															
	Petrograd	994·6	23	SSW	3	bc	984·0	+4	30	+7	WNW	5	b	2	32	21
	Vijni Volotchok															
	Gorki							*							*	
	Moscow	1001·3	23	W	3	c	993·5	+6	27	-5	S	3	f	1	*	18
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1033·5	41	–	0	b	1032·9	*	50	+13	–	0	0	–	61	?
	Turin	1021·4	39	–	0	b	1034·3	*	36	-2	–	0	c	–	46	36
	Pesaro	1021·7	45	–	0	0	1033·3	*	45	+4	–	0	0	–	46	41
	Leghorn						1027·8	*	52	+6	–	0	0	–	57	50
	Rome	1030·9	48	N	1	b	1030·5	*	46	+5	NE	1	0	–	59	45
	Viesti	1033·0	?	–	0	m	1032·2	*	50	-4	–	0	bc	–	50	45
	Brindisi	1029·9	?	N	1	r	1031·9	*	57	+5	NW	1	b	–	59	52
	Cagliari	1023·3	?	ENE	6	?	1021·7	*	55	+3	ENE	7	r	12	61	50
	Palermo	1027·9	54	ENE	2	0	1027·4	*	57	+2	–	0	0	2	72	54
	Tripoli						1026·6	*	54	+2	SW	1	r	–	72	52
	Algiers	1021·2	54	ESE	2	0	1022·0		46		S	4	bc	–	63	45
Sweden.	Hernösand						995·2	*	27		N	2	c	*	*	*
	Stockholm						1000·8	*	30	0	NW	6	b	*	*	*
	Wisby						1002·6	*	39	-4	NW	6	c	*	*	*

Morning of 30th: Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn	1004·9	27	0	NW	3	0

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

1st and 2nd Dec., 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·42 / 7·43	11·42 / 11·42	3·43 / 3·42
Greenwich	7·45 / 7·46	11·49 / 11·49	3·54 / 3·53
Wick	8·38 / 8·39	12·1 / 12·1	3·25 / 3·24
Valencia	8·28 / 8·29	12·30 / 12·30	4·32 / 4·32

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 1ST DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
○ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊤|, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

HIGH 1010 mb

1005 mb

1000 mb

995 mb

LOW

990 mb

985 mb

LOW

995 mb

1000 mb

1005 mb

1010 mb

Barometer falling

Barometer rising

Barometer falling

1015 mb

1020 mb

HIGH

1025 mb

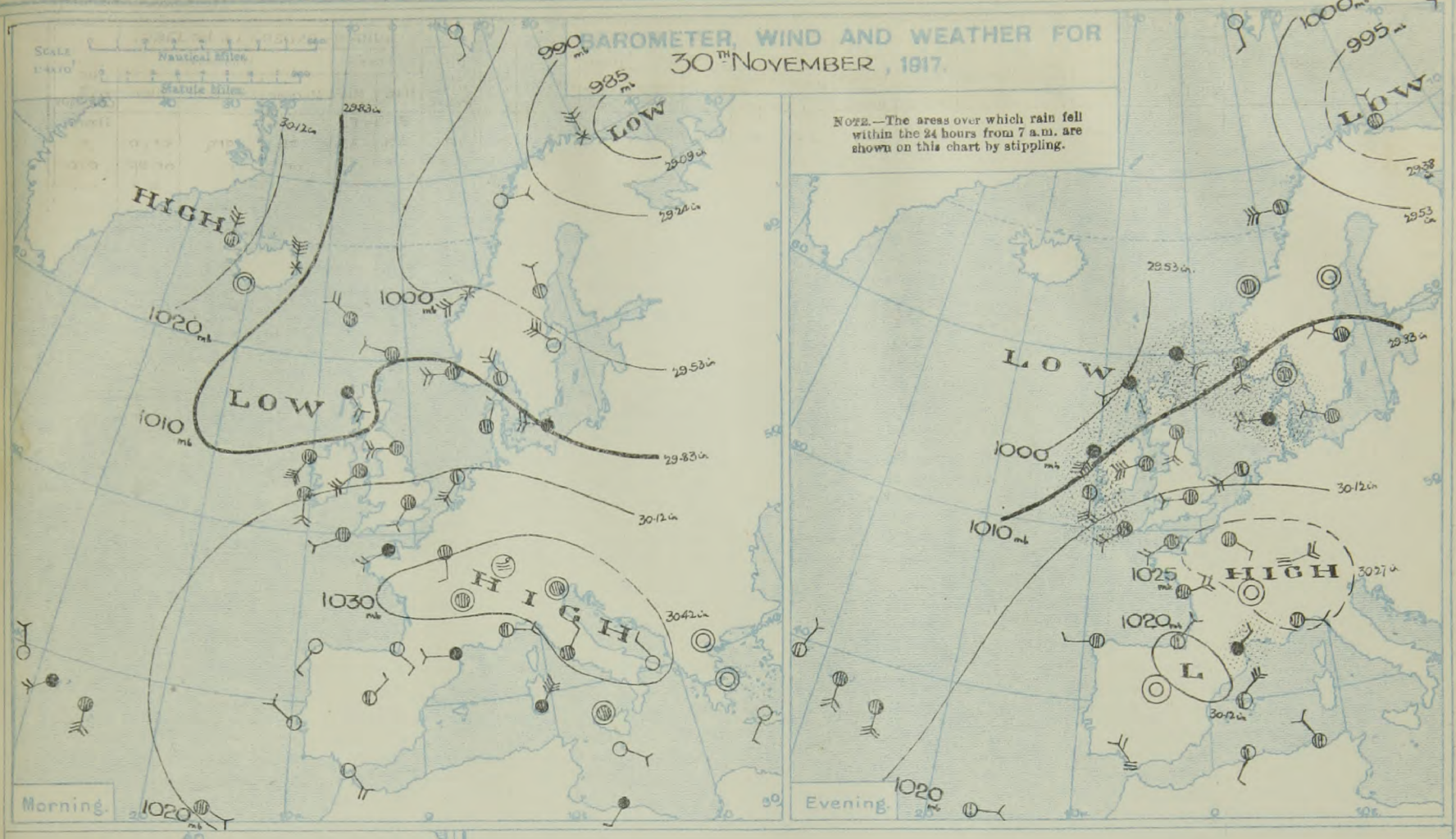
HIGH

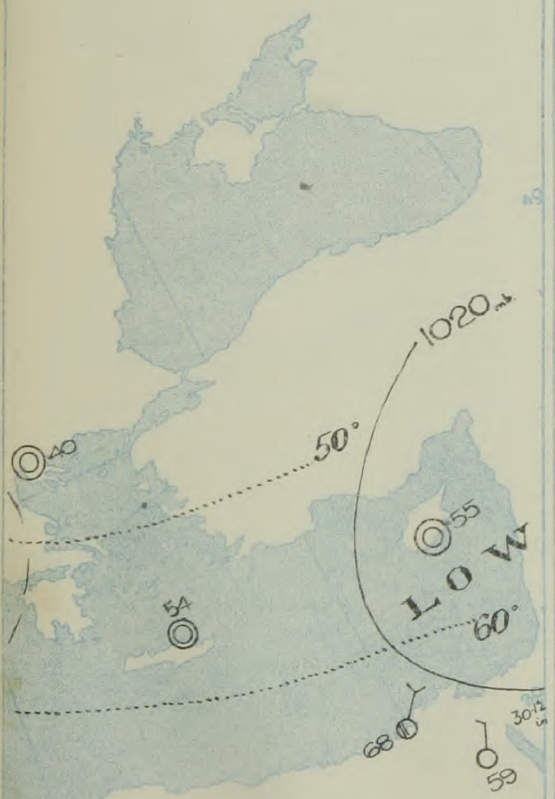
SCALE 1 : 5 x 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.





The Present Situation

Though there has been a general decrease of pressure, it continues highest over the southern regions, from the Azores to Syria. The depression, which was yesterday morning outside our western coasts, is now centred beyond Shetland, where the barometer is below 984 mb. Calms and light variable breezes still prevail over the southern anticyclonic area. On our extreme western coasts the wind has veered to between W. and N. blowing very strongly. Elsewhere a S.-SW. current is reported, mostly fresh or strong, a gale on the Severn Estuary and the Western Baltic. Dull weather is very prevalent, with showers in many parts of the British Isles.

The General Outlook

Yesterday's reports from Iceland indicated the existence of an anticyclone over the Greenland area, and this morning it appears to be spreading towards Spitzbergen. It is highly probable that it is separated from the southern high pressure by an elongated trough of low barometer, along which further depressions will advance towards our coasts to maintain the unsettled conditions. A special message from Blacksod reports a N. gale and a very rapid rise of the barometer since 7 a.m. Such a swift ascent is followed usually by the early arrival of another depression.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 335. [1ST DECEMBER.

Saturday

	STATIONS.	EVENING OF 30th Nov.					MORNING OF 1st DECEMBER								24 HOURS ENDED 7 A.M. 1st DEC.						Sunshine for 30th Nov
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1002·9	36	SE	4	r	983·5	-3	43	+8	WSW	4	–	o	3	19	43	33	os	orq	cr.o	*
	Deerness (Orkney)	1001·3	45	S	3	r	986·8	*	42	+3	SW	4	–	oe	3	24	45	37	or	r	or.op	0·0
	Stornoway ...	1000·7	45	SW	2	or	992·2	+3	41	0	NNW	7	–	r	5	24	49	40	or	or	orq	0·0
	Castlebay (Barra Isd.)	1002·4	48	–	0	r	996·4	+1	45	-6	NW	4	–	o	4	10	51	45	r	r	or.c.o	0·0
	Glasgow ...	1007·8	50	SSW	5	oq	997·0	-3	43	-7	WSW	4	–	org	*	10	51	43	od.cmp	oim.oq.c	o.c.opq	0·0
	Eskdalemuir ...	1009·9	49	SW	7	o	998·7	-1	43	-6	SW	5	–	or	*	7	50	42	omd.o	o	o.or.o	0·0
	Malin Head ...	1004·5	50	SSW	6	cq	996·3	-2	45	-7	SW	5	SW	bcq	5	6	54	43	cq	cq	omdq	0·0
	Blacksod Point	1005·0	51	SSW	8	omd	997·2	+3	47	-4	WNW	7	NW	bcmp	6	6	52	45	cq	omq	omr.cp	*
	Valencia (Cahirciveen)	1013·5	52	S	5	bc	1011·9	+1	49	-4	W	7	W	cp	5	4	53	49	o.cp	c.op.bc	c.or.c	0·2
	Roche's Point	1017·0	49	SW	4	cdp	1010·8	*	47	-3	W	3	W	b	4	5	51	47	od.c.o	oimd.o	or.b	*
	Birr Castle ...	1013·0	51	SW	2	o	1004·0	*	47	-6	SW	5	–	o	*	6	53	44	o	o	op	0·0
	Donaghadee ...	1010·3	52	SW	3	cq	999·7	-3	46	-8	WSW	5	SW	bcpq	4	1	55	45	cq	cq	bc.omr	*
	Liverpool (Bidston)	1017·1	50	SSW	3	c	1004·4	-6	49	-3	SW	4	SW	bc	3	1	54	46	o	o.c	cp.bc	0·2
	Holyhead ...	1015·7	50	WSW	7	opdq	1004·6	-2	47	-5	WSW	5	–	ogpq	4	6	52	47	o.c.oq	o.cdpc	cpd.cp	0·0
	Pembroke (St. Ann's)	1019·8	51	SW	4	o	1009·9	-6	50	-5	SW	6	W	c	6	2	51	47	o.c	c.o	op.cpq	0·0
	Hartland Quay	1021·5	51	SW	5	o	1011·9	-5	50	-1	SW	8	–	omd	5	0·4	52	48	op.o	o	o.omr	*
	Scilly (St. Mary's)	1022·6	49	SW	3	ov	1015·0	-2	50	0	W	5	W	cp	5	0·2	52	48	or	ov	or.op	0·0
	Falmouth ...	1022·3	48	SSW	2	o	1014·4	-3	50	+2	SW	6	–	dq	*	–	51	47	o	o	o.oire	0·0
	Jersey (St. Aubin)	1024·5	50	SW	3	o	1017·1	*	48	-1	SW	3	–	o	3	3race	54	44	o.bc.c	c.o	o	0·8
	Portland Bill ...	1022·4	51	W	3	c	1013·2	-3	50	0	WSW	5	W	cu	5	0·2	53	47	bc.c	c.bc.c	cpq	*
	Dungeness ...	1022·6	51	WSW	3	c	1014·2	-4	50	-1	SW	7	SW	c	6	–	53	47	c	c	bc.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1002·0	44	S	2	omr	988·4	-3	43	+2	W	4	W	r	3	20	48	41	omr	omr	omrq	*
	Nairn	1001·6	45	–	0	odg	990·9	*	42	+4	W	2	–	bc	1	10	51	37	r.od	od	cdpq	0·0
	Aberdeen ...	1004·3	51	SSW	4	o	991·3	-2	44	+4	SW	3	W	b	2	3	51	39	omr.o	oimp	o.c.b	0·0
	Leith	1007·1	52	SW	5	c	994·9	-2	46	-7	W	4	W	bc	4	3	54	45	r.odq.o	og.oq.c	cpq.bc	*
	Tynemouth ...	1011·6	53	W	4	bcm	999·4	-2	49	-6	W	3	–	bmq	3	–	55	47	omq	oim	cmq	*
	Spurn Head ...	1017·2	52	WSW	2	c	1005·0	-6	47	-3	SW	5	–	cq	5	–	52	40	c	c	c	0·0
	Yarmouth (Gorleston)	1019·2	49	W	3	c	1010·6	-5	47	0	WSW	5	–	oq	3	–	54	45	bc	bc.c	c.om.cq	3·6
	Clacton-on-Sea	1021·5	49	WSW	2	o	1012·3	-4	47	0	SSW	4	W	o	3	–	50	46	bc.og	og	og	0·0
	Nottingham ...	1018·2	51	WSW	3	c	1006·5	*	47	-5	SW	5	SW	d	*	3race	55	46	c.o	o.c	c.o	0·0
	Benson (Oxon.) ...	1021·1	49	SW	2	o	1010·7	-7	46	-3	SSW	4	–	o	*	–	51	45	o	o	o	*
	Sth Farnborough	1022·1	49	SW	3	o	1012·6	-5	46	-3	SW	4	–	r	*	0·3	52	45	o	o	omr	0·0
	Salisbury Plain	1021·8	47	SW	2	o	1012·6	-6	45	-4	SSW	4	–	o	*	–	50	44	o	o	o	*
	London (Kew Obsy.)	1022·1	51	W	2	o	1012·1	-5	48	-2	SW	5	–	od	*	–	53	47	o	o	o	0·0
NORTHERN EUROPE.	Spitsbergen ...	1009·8	-11	S	1	b	1010·6	0	-4	+5	–	0	*	c	*	*	9	-18				
	Vardö	990·8	25	N	2	c	994·0	+3	21	-6	N	5	–	o	3	*	27	21				
	Bodö	1002·4	28	W	6	c	1000·3	-1	28	+10	E	2	–	o	2	–	28	18				
	Christiansund ...	1008·4	36	–	0	o	990·6	-1	34	-3	SE	5	–	o	4	–	39	27				
	Skudesnaes ..	1006·2	36	S	4	o	989·0	-1	46	-9	S	7	–	r	5	17	46	36				
	Færder (X'iania Fjord)	1011·5	37	–	0	o	996·4	-10	39	0	SE	4	–	o	2	5	39	34				
	The Scaw (Skagen)	1011·8	39	–	0	o	999·6	-3	46	+5	SW	4	–	o	4	5	46	37				
	Blaavands Huk	1012·6	46	W	3	r	1006·2	-5	46	+1	WSW	3	–	o	*	3	50	45				
	Copenhagen ...	1014·6	43	WNW	1	r	1007·6	-3	46	+3	SW	3	–	f	*	3	48	41				
	Bornholm ...	1015·2	43	WNW	2	o	1008·3	-3	45	+2	WSW	8	–	o	1	3	45	37				
FRANCE, &c.	The Helder ...	1019·8	48	SW	4	c	1011·2	-5	48	-2	SW	6	–	o	4	–	50	48				
	C. Gris Nez ...	1022·8	48	SW	3	o	1013·5	-2	45	-6	SW	5	*	o	4	5	54	45				
	La Hève	1023·4	47	S	3	o	1017·4	*	47	-1	WSW	3	*	o	3	–	50	43				
	Brest (St. Mathieu)	?	47	E	2	o	1018·7	0	50	0	WSW	3	*	o	3	?	52	46				
	Rochefort (Ile d'Aix)	1022·3	46	ENE	4	o	1018·4	-1	46		E	3	*	o	*	–	54	43				
	Biarritz	1019·3	48	NE	2	bc	1018·7	0	52	+6	SSW	3	*	o	2	–	55	45				
	Paris	1023·8	43	ESE	1	o	1018·6	-2	39	-4	SSE	2	–	o	*	–	46	39				
	Belfort	1027·8	34	ENE	4	f	1022·4	*	32	-4	–	0	*	f	*	–	42	32				
	Lyons	1022·3	46	ENE	4	o	1018·4	*	46	+7	E	3	*	o	*	–	54	39				
	Nice	1025·2	50	E	2	o	1022·8	0	51	-3	–	0	*	c	3	15	63	52				
	Perpignan ..	1021·1	52	NE	1	r	1020·2	+2	41	+7	W	1	–	b	*	10	55	39				
	Sanguinaire ...	1022·4	54	NW	3	o	1022·8	*	52		E	2	*	c	3	11	57	43				
SOUTHERN STATIONS.	Corunna	1021·1	54	W	1	c	1023·5	+3	54	+9	–	0	SW	o	1	–	55	43				
	Madrid	1020·4	48	–	0	bc	1024·0	+2	39	-4	–	0	–	c	*	Jrace	55	37				
	Lisbon																					
	Azores (Horta) ...	1014·4	*	SSE	4	o	1015·6	0	63	+4	SSW	5	*	o	3	7	64	59				
	Madeira	1020·8	63	E	2	bc	1024·2	+1	59	-2	SE	2	–	o	2	–	68	57				
	Gibraltar ...	1022·3	52	NW	3	m	1022·7	*	49	-3	NW	4	*	m	3	–	61	47				
	Malta	*	*	*	*	*	1026·3	+1	63	-1	ESE	2	–	o	1	–	66	63				
	Limassol	*	*	*	*	*	1019·9	0	55	0	–	0	–	b	0	–	73	48				
	Alexandria ...	1022·6	66	NE	2	b	1022·4	0	68	0	NE	2	E	bc	1	–	75	63				
	Cairo (Helwan) ...	1019·9	64	NE	4	b	1020·4	+1	59	-5	NE	1	–	b	*	–	75	55				

GALES.

Duration and Extreme Force in British Isles.

ESKDALEMUIR
Extreme SSW 8 at midnight
Gale SW 8 2–3 h (1st)
Extreme Gust 25 m/s.

BLACKSOD POINT
Gale SSW 8, 15.30h – 20h (30th)

HARTLAND QUAY
SW 8 at 7h (1st)

LEITH
Extreme SW 8, morning (1st)

NOTE.
LUNAR CORONA observed at DONAGHADEE last night.

LONDON 1st DECEMBER, 9h. G.M.T.	Humidity. 15 h. 30th Nov.	Humidity. 9 h. 1st Dec.	Sunshine for 30th Nov.	24 Hours ended 9 h. 1st Dec. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	71	87	0·0	53	47	45	–	o	o	o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	76	93	0·0	53	47	46	–	o	o	0·4
CAMDEN SQ. (British Rainfall) ..	75	79	0·0	53	46	44	–	o	o	*
S. KENSINGTON (Museum Grounds)	*	87	0·0	54	46	?	–	o	o	o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 30th Nov.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
90	3·0	6·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,464. SUNDAY, 2nd DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Only in the extreme south of England did the temperature exceed 50°, Jersey touching 54°. At some northern stations the maxima were below 45°. Slight frost occurred in places during the night. Cold showers fell in most localities. From four to six hours of sunshine was registered between Torquay and Scilly, elsewhere the records were very small. A gale from between SW. and NW. was felt in many localities.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 1st DECEMBER

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 1st
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	Trace	Trace	44	32	bc. c	cpr q s	1·1
Scotland, E.	Montrose							
Scotland, E.	St. Andrews							
Eng. N.E.	Harrogate	3	4	46	38	or	r.o.bc	2·4
Eng. N.E.	Skegness	*	*	51	42	bc.opr	b	2·7
England, E.	Felixstowe	-	Trace	50	46	o.bc pr	bcq pr	1·3
England, E.	Southend-on-Sea	-	-	51	46	o	o.c.bc.b	
England, S.E.	Margate	-	Trace	51	47	o	od	0·7
England, S.E.	Hastings	-	1	51	46	od. bc	bc.o	1·5
England, S.E.	Eastbourne	Trace	1	52	46	oqr	o.bc	1·0
England, S.E.	Seaford	*	*	52	47	r.o	b	1·7
England, S.E.	Worthing	-	Trace	52	47	o.c.r	bc.b	1·7
England, S.E.	Littlehampton	*	*	52	48			2·0
England, S.E.	Bournemouth	-	-	54	47	o	c.o	2·6
Sc'tld W.	Oban	9	2	52	44	o	cpr	0·7
Eng. N.W.	Morecambe					*	*	
Eng. N.W.	Southport	2	2	48	41	b.bc or.c.r	or.qr.h.bc	1·3
Midlands.	Malvern							
Midlands.	Ross-on-Wye	1	Trace	51	43	bcd	bcpr	3·6
Wales.	Rhyl							
Wales.	Colwyn Bay							
Wales.	Llandudno	*	*					
Wales.	Aberystwyth	*	*	48	42	r.o.c	c.o	1·0
England, S.W.	Weymouth	*	*					
England, S.W.	Torquay	Trace	Trace	53	47	bc	b.cpr	4·2
England, S.W.	Paignton	*	*	53	47	od.bc	opr	4·6
England, S.W.	Penzance	1	-	53	49	bc.b	bc.b	5·9
England, S.W.	Newquay							
England, S.W.	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 1st DECEMBER

	STATIONS.	Evening of 30th Nov. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 1st. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	986·0	19	W	3	s									*	
Russia 7 a.m. and 9 p.m. Local Time.	Hango														*	
Russia 7 a.m. and 9 p.m. Local Time.	Yuriev															
Russia 7 a.m. and 9 p.m. Local Time.	Petrograd	993·1	23	NNW	4	o	1006·7	0	25	-5	NW	4	b	-	32	16
Russia 7 a.m. and 9 p.m. Local Time.	Vijni Volotchok						1008·3	+9	18		W	3	b	6	?	16
Russia 7 a.m. and 9 p.m. Local Time.	Gorki						1015·3	*	25		NW	1	b	-	*	25
Russia 7 a.m. and 9 p.m. Local Time.	Moscow						1007·0	+10	19	-8	NW	4	b	1	*	18
Russia 7 a.m. and 9 p.m. Local Time.	Kiev	1013·1	48	WNW	6	s	1021·7	+5	30		NW	3	bc	1	*	30
Russia 7 a.m. and 9 p.m. Local Time.	Kharkov	1000·4	50	WNW	5	r	1015·5	+4	32		NW	5	o	?	*	30
Russia 7 a.m. and 9 p.m. Local Time.	Kishinev														*	
Russia 7 a.m. and 9 p.m. Local Time.	Elisabetgrad														*	
Russia 7 a.m. and 9 p.m. Local Time.	Nicolaiev	1016·4	46	WSW	4	bc	1022·0	*	46		NNE	2	c	-	*	37
Russia 7 a.m. and 9 p.m. Local Time.	Odessa						1021·9	+4	?		NNW	3	b	-	*	?
Russia 7 a.m. and 9 p.m. Local Time.	Tarkhankout	1018·6	?	WSW	4	b		*							*	
Russia 7 a.m. and 9 p.m. Local Time.	Soukhoum														*	
Mediterranean.	Venice	1029·8	45	-	0	c	1026·6	*	39	-11	S	6	o	-	50	34
Mediterranean.	Turin	1028·1	39	-	0	r	1026·3	*	41	+5	-	0	f	11	43	36
Mediterranean.	Pesaro	1029·4	45	-	0	o	1025·8	*	43	-2	-	0	o	-	48	?
Mediterranean.	Leghorn	1025·5	54	-	0	bc	1023·0	*	32	-20	-	0	m	1	61	?
Mediterranean.	Rome	1027·7	52	-	0	c	1025·5	*	50	+4	N	1	o	Trace	57	44
Mediterranean.	Viesti	1026·3	52	-	0	b	1026·2	*	54	+4	-	0	c	-	59	48
Mediterranean.	Brindisi	1027·9	65	NW	1	bc	1028·5	*	50	-7	NW	2	c	-	57	50
Mediterranean.	Cagliari	1021·7	57	SSW	5	c	1023·0	*	54	-1	NW	3	b	3	61	48
Mediterranean.	Palermo	1025·0	59	-	0	b	1029·5	*	57	0	-	0	b	-	70	50
Mediterranean.	Tripoli						1026·6	*	52	-2	S	1	o	-	*	50
Mediterranean.	Algiers	1021·2	50	SSW	1	bc	1023·0		52	+6	WSW	3	b	-	57	48
Sweden.	Hernösand						1007·1	*	16	-11	-	0	o	*	*	*
Sweden.	Stockholm						1004·2	*	28	-2	S	2	s	*	*	*
Sweden.	Wisby						1007·1	*	32	-7	S	2	o	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1028·8	9		N	6	b
Reykjavik	1024·2	18		N	7	b
Vestmanna	1019·6	18		N	9	b
Seydisfjord	1011·9	19		N	9	s
Thorshavn	988·3	32	+5	N	3	o

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

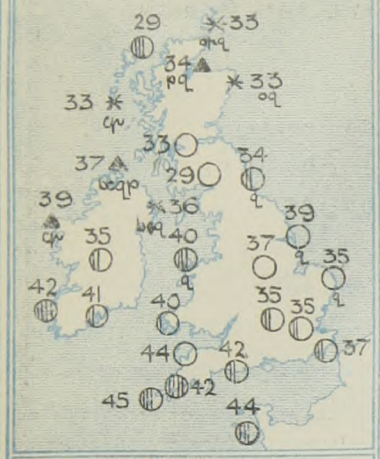
2nd and 3rd Dec. 1917.		Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth		7·43	11·42	3·42
		7·45	11·43	3·41
Greenwich		7·46	11·49	3·52
		7·48	11·50	3·52
Wick		8·39	12·1	3·24
		8·41	12·2	3·23
Valencia		8·29	12·30	4·32
		8·31	12·31	4·31

Printed at the Meteorological Office, South Kensington, London, S.W. 7.
By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

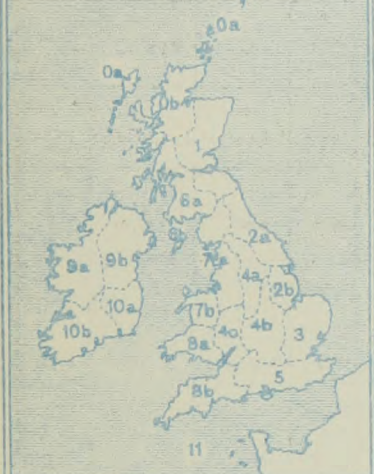
‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 2ND DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊼ thunderstorm.

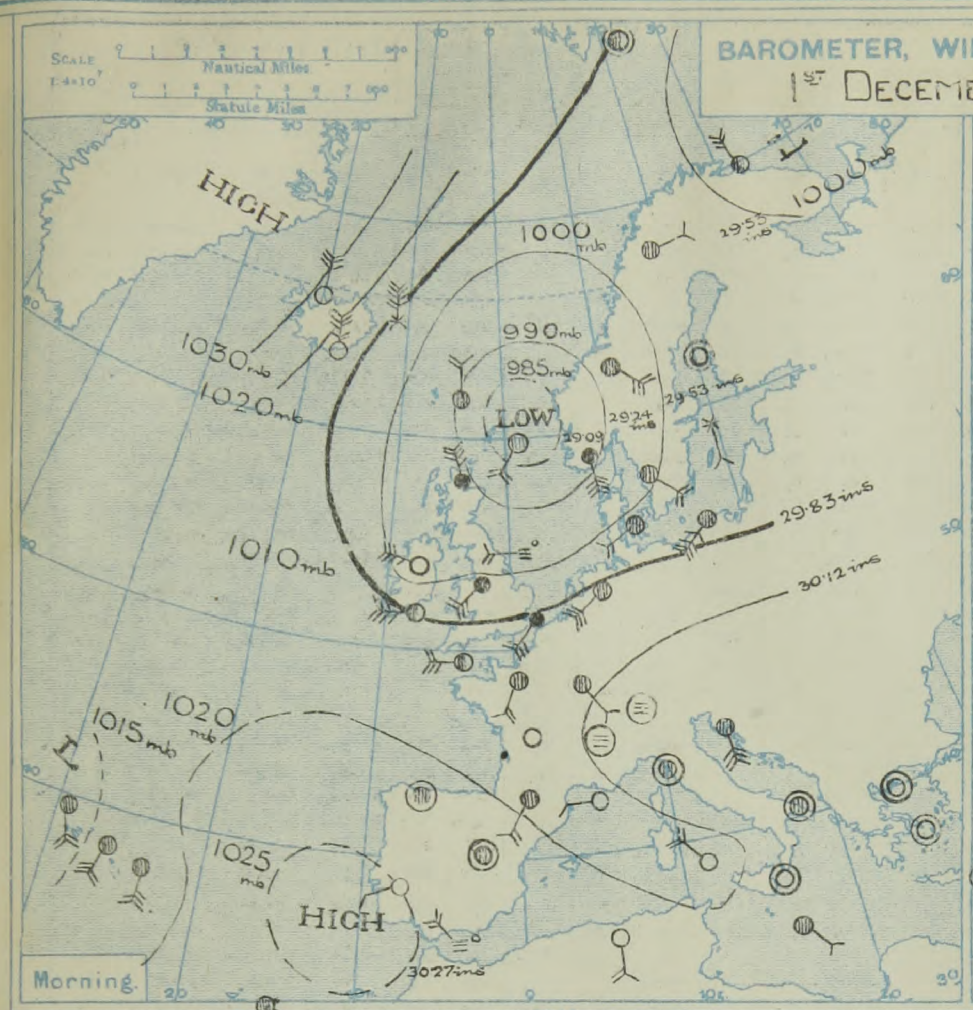
SEA DISTURBANCE.—Rough ~~. High ≈≈.

1000mb
1005mb
1010mb
1015mb
1020mb
1025mb
1030mb
LOW
975mb
980mb
985mb
990mb
995mb
1000mb
Bar.
HIGH
Barometer
falling
rising
generally
29·68 ins
29·83 ins
29·97 ins
30·12 ins
30·27 ins
2·875 ins
2·894 ins
2·909 ins
2·924 ins
2·938 ins
2·953 ins
60°
50°
40°
32°
20°

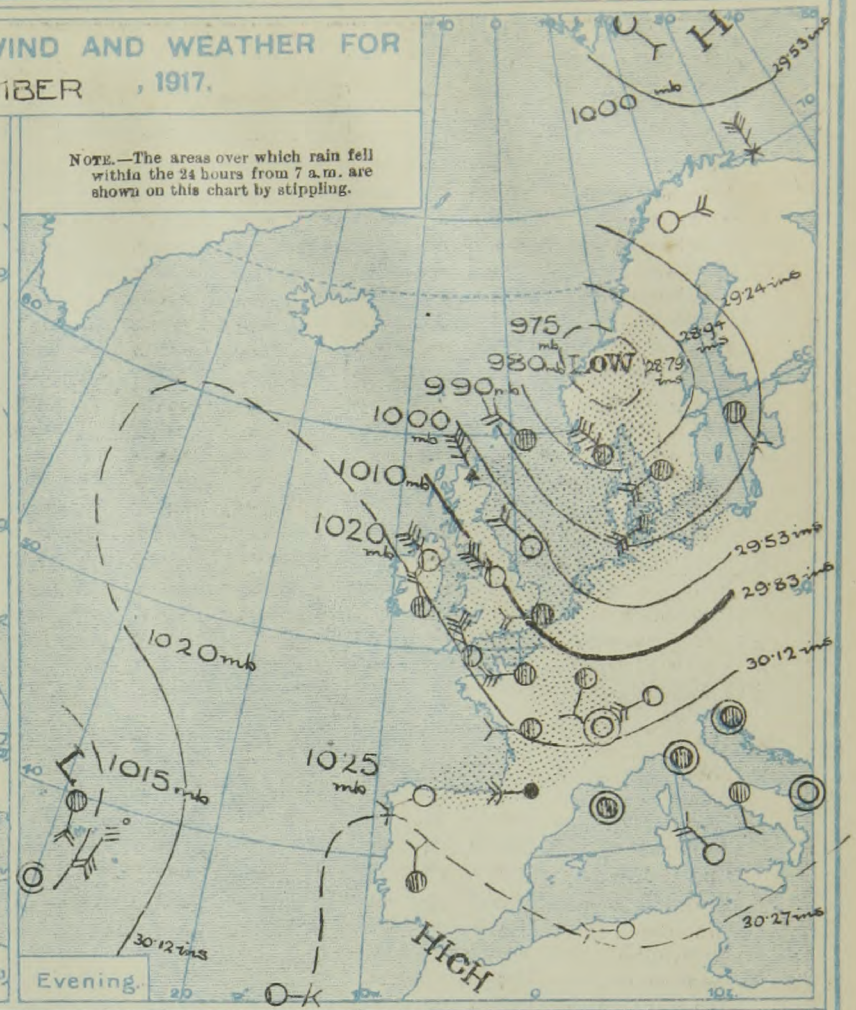
SCALE 1 : 2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

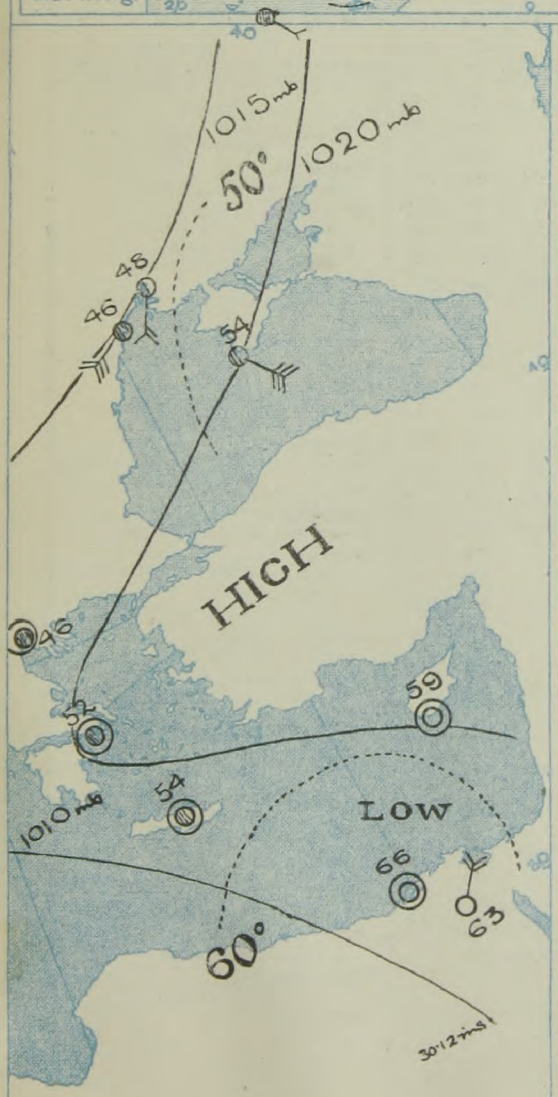
Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 1ST DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

A well defined anticyclone, with the barometer above 1030 mb., now occupies the Atlantic region between Portugal and Iceland and Greenland. Yesterday's deep depression has passed on to southern Scandinavia, where the barometer has fallen below 975 mb. A new depression is indicated between the Azores and the Grand Banks. A stormy type of conditions prevails over the whole of north-western Europe, the cyclonic circulation of wind round the Scandinavian depression having the force of a gale to a strong or whole gale over an extensive region, with violent squalls ranging up to 34 m/s (76 miles per hour) in places. At the Azores strong to high S. winds are reported, while over the Mediterranean region calms and light variable breezes prevail. Over the British Isles the NW. to N. wind has caused a rapid decrease of temperature, and in many parts of North-Western Europe and France cold rain, hail or snow is reported.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 336 [Sunday 2nd DECEMBER]

EVENING OF... 1st ... MORNING OF..... 2nd .....

	STATIONS.	Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ..2nd. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 1st.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	982.4	34	NW	3	o	1001.1	+6	34	-9	NNW	9	-	o	7	16	44	32	op	rs	o	*
	Deerness (Orkney)	988.8	36	WNW	6	csp		*											o.cp.bc	spb.c		
	Stornoway ...	1000.8	37	NNW	8	cphq	1018.3	+8	29	-12	NNW	8	-	cq	6	5	41	29	cphq	cphq	cphq	0.5
	Castlebay (Barra Isd.)	1009.9	39	W	6	c	1023.9	+4	33	-12	SW	5	N	csp	5	1	45	30	c.op.bc	csp.c	csp.c	1.4
	Glasgow ...	1004.5	36	WNW	6	b	1012.7	+5	33	-10	WNW	5	NW	b	*	4	45	30	o.cp.bc	bc.bbp	bspq.b	2.0
	Eskdalemuir ...	1004.8	33	WNW	7	b	1011.5	+2	29	-14	NW	8	-	b	*	1	43	29	or.op	o.c.bc.b	b	2.9
	Malin Head ...	1008.6	39	NNW	8	bcphq	1021.4	+6	37	-8	NNW	9	N	bcpbq	8	5	45	34	cpq	bcphq	bcqph	0.4
	Blacksod Point	1019.1	40	NNW	8	bcpq	1027.6	+4	39	-8	NNW	8	NW	cph	7	1	46	34	cmp	bcpq	bcqph	*
	Valencia (Cahirciveen)	1023.1	44	NNW	5	c	1030.7	+4	42	-7	NNW	5	N	o	?	0.4	48	42	cphq	c.o.c	c.o	0.7
	Roche's Point	1020.5	43	NW	4	c	1028.1	*	41	-6	NW	3	NW	bc	3	4	48	40	bc.cp.c	cp	c.bc	*
	Birr Castle ...	1018.5	38	NW	2	c	1027.2	*	35	-12	NW	2	-	bc	*	0.2	48	33	o.cpq	cq	bcx	0.6
	Donaghadee ...	1009.5	38	NW	7	bcmpq	1018.8	+3	36	-10	NW	8	NW	bcspq	7	7	46	34	bcmpq	bcmpq	bcspq	*
	Liverpool (Bidston)	1009.7	45	W	7	o	1016.3	+3	39	-10	W	8	W	bcq	6	4	49	38	bcp	cpq	opq.bc	1.0
	Holyhead ...	1011.5	44	NW	8	bcq	1020.3	+2	40	-7	NNW	8	N	cq	7	1	49	36	cp.cq	cp.bcq	cp.csp	1.1
	Pembroke (St. Ann's)	1015.9	45	WNW	6	cq	1023.8	+4	40	-10	NW	6	NW	bc	5	-	50	39	cpq	bcq.cq	cq.bcq	1.5
	Hartland Quay	1016.4	49	NW	7	bq	1024.3	+3	44	-6	NNW	8	-	bq	6	0.3	52	43	cp.bc.c	bcpq	cq.	*
	Scilly (St. Mary's)	1019.9	47	NNW	7	cq	1027.3	+2	45	-5	NW	6	NW	c	6	0.2	51	44	c.bc	bc.cpq	cq cp	5.5
	Falmouth ...	1017.7	47	NW	6	cpq	1026.0	+4	42	-8	NNW	4	-	oq	*	1	51	41	cdq.bc	bcq.cp	o.cpcq	4.1
	Jersey (St. Aubin)	1015.5	51	W	5	o	1024.0	*	44	-4	WNW	4	NW	c	3	0.1	54	44	odp.c	o.bc.o	bc.c	1.4
	Portland Bill ...	1011.3	52	WNW	7	cq	1020.8	+4	42	-8	NW	6	NW	bc	5	0.3	53	41	bcp	bcq	bcq	*
	Dungeness ...	1007.7	49	SW	8	bcq	1016.4	+2	37	-13	NW	5	NW	bc	4	2	50	34	cpq	bcq	bc	*
	Dover	*	*	*	*	*													*	*		
	Wick	991.6	33	WNW	4	c	1007.4	+13	36	-7	NNW	8	-	omphq	6	5	43	31	or.cpq	omphq	omphq	*
	Nairn	997.3	34	WNW	6	cbpq	1012.9	*	34	-8	NNW	7	-	ospq	5	3	42	31	bcq	cspq	cspq	0.7
	Aberdeen ...	996.2	35	WSW	5	b	1007.0	+12	33	-11	WNW	7	-	osq	7	3	46	31	b.bcq	bch.bq	bc.cpq	1.6
	Leith	1002.5	36	NW	1	b	1011.2	+3	35	-11	NW	4	NW	c	4	1	46	33	bc.opc	bcu.c.b	b.bq.o	*
	Tynemouth ...	1001.8	39	NW	4	bmq	1008.1	+5	34	-5	NNW	5	NW	bcq	3	-	48	33	cmp	bmpq	bcq	*
	Spurn Head ...	999.1	45	NNW	7	bcq	1007.5	+1	39	-8	NW	9	-	bq	7	4	48	36	cpq	cpq	bq	0.5
	Yarmouth (Gorleston)	1001.3	46	WNW	7	oq	1009.1	+2	35	-12	NW	6	-	bq	6	1	50	34	bcq	bcpq	bcq.b	?
	Clacton-on-Sea	1005.0	49	WNW	6	c	1013.5	+2	35	-12	WNW	4	NW	b	3	0.4	50	34	odg.bc	bc.c	c.bc b	0.9
	Nottingham ...	1006.6	44	W	6	c	1014.8	*	37	-10	WNW	4	-	b	*	Trace	50	34	op.c	c.o	csp.b	1.5
	Benson (Oxon.) ...	1008.9	46	W	5	c	1018.2	+3	34	-12	SSW	2	-	bcx	*	-	52	32	o	bc	b.bcx	*
	Sth Farnborough	1009.0	46	W	4	c	1018.6	+4	35	-11	WNW	3	-	bc	*	Trace	53	34	o.c.o.bcq	cpq.o.bc	bc.c.b	1.3
	Salisbury Plain						1019.3	+3	34	-11	WNW	6	-	bq	*	-	50	32			bc.bq	*
	London (Kew Obsy.)	1008.6	48	W	3	o	1018.2	+3	35	-13	W	2	-	bc	*	Trace	52	35	od.c.bcq	oq.b.c.o	oq op.bc	1.8
NORTHERN EUROPE.	Spitsbergen ...	1006.6	-8	SE	2	bc	1004.4	0	0	0	ENE	6	*	m	*	*	0	-13				
	Vardö	996.6	23	N	7	s	997.1	0	21	0	NW	5	-	s	4	*	23	19				
	Bodö	998.3	19	E	4	b	996.0	-2	19	-9	E	4	-	b	2	-	23	16				
	Christiansund ...	973.8	32	-	0	s	987.2	+9	28	-6	WNW	4	-	c	4	17	34	28				
	Skudesnaes ..	979.4	41	WNW	8	c	979.2	+4	39	-7	NW	10	-	o	7	5	?	39				
	Færder (X'tania Fjord)	978.8	45	WSW	7	b	974.2	-2	39	0	WSW	6	-	c	3	3	46	39				
	The Scaw (Skagen)	985.5	45	SW	4	o	975.8	-4	37	-9	SSW	4	-	bc	4	3	46	36				
	Blaavands Huk	992.0	46	WSW	6	c	981.8	-8	39	-7	W	8	-	r	*	Trace	48	34				
	Copenhagen ...	995.5	?	SW	6	r	984.3	-2	37	-9	WSW	3	-	bc	*	1	46	37				
	Bornholm ...	997.9	43	SW	8	r	985.5	0	37	-8	WNW	7	-	o	2	8	43	36				
FRANCE, &c.	The Helder ...	999.1	48	SW	6	o	1000.7	-1	41	-7	W	9	-	o	5	7	50	37				
	C. Gris Nez ...	1007.6	51	WSW	7	bc	1014.4	+3	40	-5	W	7	*	b	6	2	50	39				
	La Hève	1013.6	43	W NW	5	o	1019.9	*	43	-4	NNW	7	*	c	7	1	48	44				
	Brest (St. Mathieu)	1020.0	51	NW	5	bc	1027.1	+4	47	-3	NNW	5	*	c	3	-	54	45				
	Rochefort (Ile d'Aix)	1019.0	50	W	2	c	1025.8	+6	47	+1	N	5	*	c	*	5	50	46				
	Biarritz	1021.9	54	W	4	r	1025.2	0	52	0	N	3	*	r	3	2	55	52				
	Paris	1015.0	45	SSW	3	o	1019.5	+4	37	-2	W	2	-	b	*	Trace	46	37				
	Belfort	1018.2	48	WSW	4	bc	1016.0	*	39	+7	W	7	*	r	*	1	50	37				
	Lyons	1020.0	45	-	0	b	1022.2	*	42	-4	NW	2	*	r	*	1	53	39				
	Nice	1020.3	48	-	0	b	1015.0	-2	41	-10	-	0	*	b	2	-	57	39				
	Perpignan ..	1021.1	48	-	0	o	1021.8	+1	52	+11	NW	3	N	b	*	-	55	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1020.7	55	WSW	2	b	1030.8	+3	52	-2	NE	3	-	o	*	3	57	50				
	Madrid																					
	Lisbon	1027.1	54	WSW	3	c	1028.4	+1	55		-	0	-	o	5	-	59	52				
	Azores (Horta) ...	1015.8	*	SW	5	m	1012.2	-4	61	-2	SSW	4	*	o	6	20	66	59				
	Madeira	1024.6	63	ESE	2	bc	1025.6	?	63	+4	SE	3	-	r	3	*	68	61				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1021.8	?	59	-4	NNW	5	-	o	3	Trace	64	59				
	Limassol	*	*	*	*	*	1020.0	0	59	+4	-	0	-	b	0	-	73	46				
	Alexandria ...	1020.8	64	NE	2	bc	1019.5	0	66	-2	-	0	-	b	0	-	75	59				
	Cairo (Helwan) ...	1019.6	64	N	3	b	1017.4	+1	63	+4	NE	4	-	b	*	-	77	59				

GALES.

Duration and Extreme Force in British Isles.

STORNOWAY
NNW 8 at 18h (1st)

ESKDALEMUIR
WNW 8 at 15h (1st)
Gust 28 m/s, aftn.
NW 8, 5-7h (2nd)

MALIN HEAD
NNW 8, 10h (1st) - 7h (2nd)
Exter. NW 10 at 22h (1st)

BLACKSOD POINT
NNW 8, 13-18h (1st) & 7h (2nd)

DONAGHADEE
NW 9 at 3h (2nd)
NW 8, 2-7h (2nd)

SOUTHPORT
Gale 13-18h and 20h (1st) - 8h (2)
Exter. Gusts 31 m/s.

LIVERPOOL
Gale: NW 8, 21-7h (2nd)

HOLYHEAD
NW 8, 13-18h (1st) and 7h (2nd)
Gusts 27 m/s
Exter. NW 9 at 15h (1st)

HARTLAND QUAY
SW 8 at 7h (1st)
Squalls forces 8 and 9 from 20h (1st) - 7h (2nd)

DUNGENESS
SW 8, 9 - 20h (1st)

WICK
NNW 8 at 7h (2nd)

NAIRN
WNW 8, 14-17h (1st)

ABERDEEN
WNW 22 m/s at 14, 15 and 17h (1st)
Gusts WNW 34 m/s at 2h (2nd)

LEITH
NW 8, night (1st)

SPURN HEAD
NW 9 at 17h (1st)

NOTTINGHAM
NW 8 at 17h (1st)

LONDON 2nd DEC. ..... 9h. G.M.T.	Humidity. 15 h. 1st	Humidity. 9 h. 2nd	Sunshine for 1st	24 Hours ended 9 h... 2nd D.EC Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	63	75	1.5	53	34	28	-	o	c	bc.ps
CITY (Bunhill Row)	*	*	1.9	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	66	96	1.7	54	34	34	-	o	bc	bcs
CAMDEN SQ. (British Rainfall) ..	63	77	2.1	54	34	31	-	o.bc	bc.o	*
S. KENSINGTON (Museum Grounds)	*	78	1.9	53	35	-	-	o	c	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ..1st.....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
170	5.8	24

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,465. MONDAY, 3RD DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature remained below 40° over a large portion of the British Isles, and barely exceeded 35° in places. The minimum readings of the night were low generally; sharp frost occurred in many localities. Snow showers fell in the Northern and North-Eastern districts, but the precipitation measurements were not large. The duration of bright sunshine varied greatly: generally it was more prevalent in the South-East of England than elsewhere.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 2ND DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 2ND
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	9	1	36	30	cq hs.c	cq hs	1·0
	Montrose	-	-	46	29	b	b	3·8
	St. Andrews							
Eng. N.E.	Harrogate	-	-	35	30	bc.c	bc.b	2·6
	Skegness	-	-	39	32	bc	b	3·8
England, E.	Felixstowe	-	-	39	34	bv.bc	bcq.b	4·2
	Southend-on-Sea							
England, S.E.	Margate	*	*	41	38	b	bc.c	3·9
	Hastings	-	-	46	33	b	b	6·9
	Eastbourne	Trace	-	41	35	b	b	7·3
	Seaford	*	*					
	Worthing	-	-	41	34	b	b	7·3
	Littlehampton	-	-	41	34			7·3
	Bournemouth	-	-	42	36	b	b	6·8
Scotland W.	Oban	2	Trace	35	31	bcp.r.c	o	2·7
Eng. N.W.	Morecambe	1	-	47	35	cq.b.	bc	4·0
	Southport							
Midlands.	Malvern	-	-	42	33	bc	b.bc	6·0
	Ross-on-Wye							
Wales.	Rhyl	2	Trace	41	32	c.h.	c.bc.d	2·0
	Colwyn Bay	1	1	40	34	c.h.s	ph.c	0·3
	Llandudno	*	*	49	34	h	h.c	0·6
	Aberystwyth	*	*	40	34	r.o.c	c.o	2·0
England, S.W.	Weymouth	*	*					
	Torquay	Trace	-	43	38	bc.b	b.bc.b	5·0
	Paignton	*	*					
	Penzance							
	Newquay	-	-	44	41	cq	bq	1·9
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 2ND DECEMBER

	STATIONS.	Evening of 1ST: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 2ND: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö														*	
	Yuriev															
	Petrograd	1004·3	21	SE	3	0										
	Vijni Volotchok															
	Gorki							*							*	
	Moscow														*	
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1019·3	45	-	0	0	1012·9	*	43	+4	SSW	1	‡	?	56	39
	Turin	1021·0	41	-	0	0		*	41	0	-	0	‡	1	43	39
	Pesaro	1019·7	48	WNW	1	Y	1014·2	*	45	+2	SW	1	‡	2	54	44
	Leghorn	1018·5	55	-	0	b	1014·7	*	52		-	0	c	Trace	63	60
	Rome	1020·2	57	S	1	0	1016·1	*	48	-2	-	0	0	3	61	46
	Viesti	1021·8	54	-	0	b	1012·6	*	55	+1	NW	1	0	4	57	54
	Brindisi	1021·0	52	SE	1	bc	1016·2	*	57	+7	SE	1	Y	5	64	50
	Cagliari	1019·7	57	NW	3	b	1019·1	*	52	-2	SW	6	0	3	63	50
	Palermo						10190	*	54	-3	-	0	c	10	73	48
	Tripoli						1022·2	*	56	+4	N	1	0	Trace	*	54
	Algiers															
Sweden.	Hernösand						980·0	*	27	+11	ENE	9	S	*	*	*
	Stockholm						976·2	*	37	+9	SSW	6	0	*	*	*
	Wisby						979·4	*	41	+9	WSW	4	c	*	*	*

Morning of 2ND

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn						

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

3RD AND 4TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·45	11·43	3·41
	7·46	11·43	3·40
Greenwich	7·48	11·50	3·52
	7·49	11·50	3·52
Wick	8·41	12·2	3·23
	8·43	12·2	3·22
Valencia	8·31	12·31	4·31
	8·32	12·31	4·30

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By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF MONDAY, 3RD DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○
TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ½ clouded. ◔ sky ¼ clouded.
◕ sky ¾ clouded. ● overcast sky. ⦿ rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ϒ, thunder.
ϒ, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

1020 mb. LOW

1025 mb.

1030 mb. HIGH

1035 mb.

1000 mb.

1005 mb.

1010 mb.

1015 mb.

1020 mb.

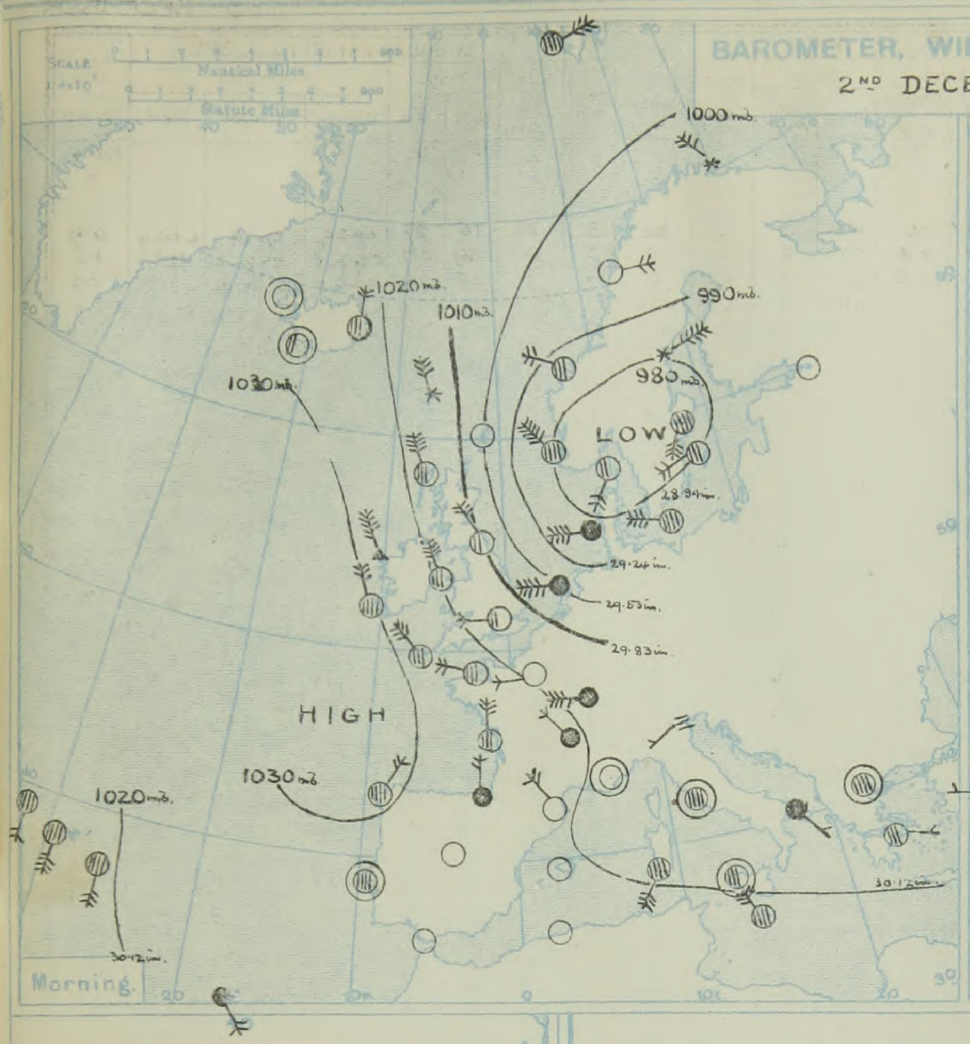
995 mb.

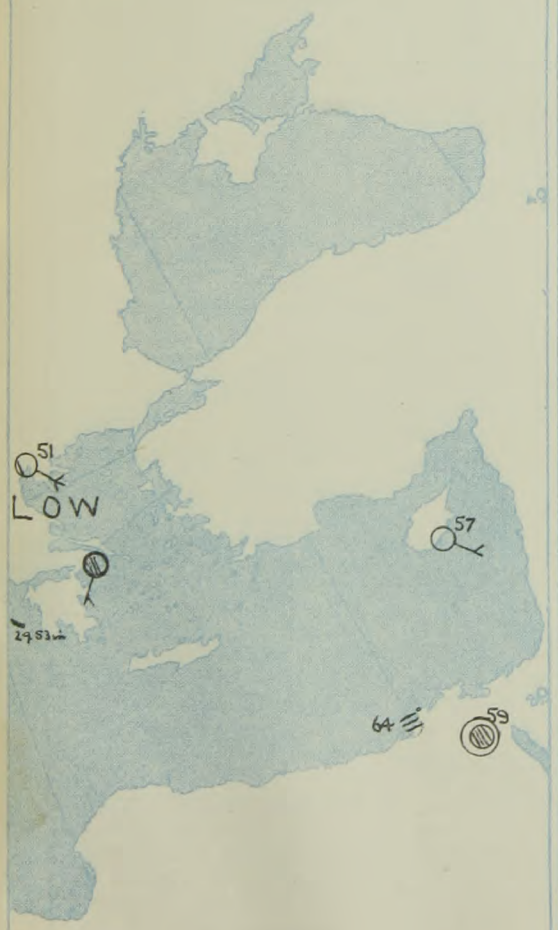
Barometer falling

Barometer rising

Scale 1 : 8,810,000
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.





The Present Situation

The central area of an anticyclone extends from Brittany to the North West of Ireland, and appears to be drifting slowly eastward. A deep depression lies over the Baltic region, and the wind in its rear over Denmark and the North Sea is strong to a whole gale from between N. and NW. Another depression, of little intensity, lies over the Azores region.

The General Outlook

The anticyclone appears likely to move in an easterly or south-easterly direction, while depressions on the Atlantic encroach on our Western districts, causing the wind to back to between W. and S. generally, and the weather to become less fine with an increase of temperature.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 337. MONDAY 3RD DECEMBER

	STATIONS.	EVENING OF 2ND: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 3RD: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 3RD: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 2ND Hours.
BRITISH ISLANDS.	Lerwick ...																					
	Deerness (Orkney)							*														*
	Stornoway ...	1025·4	33	NNW	7	cpsq	1028·0	0	34	+5	NNW	3	-	bc	3	1	36	27	cpsq	cpsq	c.bc.q	0·9
	Castlebay (Barra Isd.)	1030·4	34	-	0	csp	1031·5	0	37	+4	NW	4	-	c	3	4	39	36	cstp.c	csp.c	cps.c	1·2
	Glasgow ...	1026·5	31	W	3	b	1029·6	+ 3	30	- 3	SW	1	N	b	*	?	35	29	b.bc.c	c.bc.b	bx	2·8
	Eskdalemuir ...	1026·4	26	WNW	4	b	1029·3	+ 2	27	- 2	WNW	4	-	bx	*	Trace	34	23	bxy.ps	bc.by.b	b.bx	5·8
	Malin Head ...	1029·6	37	N	6	bcq	1031·8	+ 1	40	+3	NNW	6	NW	bcq	6	1	40	35	bcq.h	bcq	bcq	1·6
	Blacksod Point	1035·1	35	N	3	bc	1034·9	- 2	35	-4	E	1	-	bc	2	0·2	39	33	bc.h	bc	bc	*
	Valencia (Cahirciveen)	1035·7	37	NE	2	bc	1034·9	- 1	36	- 6	ESE	3	-	b	3	-	45	30	ocy	bc.c.bc	bc.b	1·3
	Roche's Point	1035·3	36	N	1	b	10368	*	30	-11	N	1	-	b	2	0·2	42	29	bc.b	b	bx	*
	Birr Castle ...	1032·2	37	NW	2	bc	1036·3	*	23	-12	NW	1	-	bc	*	-	39	23	c	cx	bcx	6·2
	Donaghadee ...	1029·2	35	NW	5	bcq.h	1030·6	+1	35	- 1	WNW	4	W	bc	4	3	39	31	bcq.hs	bcq.h	bcq.hs	*
	Liverpool (Bidston)	1027·5	36	WNW	4	b	1031·0	+2	36	- 3	WNW	3	N	c	3	1	40	34	bcq	c.0	0p	2·1
	Holyhead ...	1030·2	38	NW	7	cq.rs	1032·7	+ 1	41	+1	NW	6	N	c	5	4	42	40	cq	cq.rs	cq.c	2·0
	Pembroke (St. Ann's)	1031·9	38	NW	3	c	1036·2	+2	37	-3	WNW	2	W	b	0	-	42	35	cq	cq	bc.b	2·7
	Hartland Quay	1031·8	42	NNW	7	bcq	1035·9	+2	42		N	2	-	bc	2	-	44	39	bcp.cp	cq.bcq	bcq.bc	*
	Scilly (St. Mary's)	1033·3	42	N	4	c	1036·8	+1	36	-9	-	0	N	c	3	-	47	35	c	c	c	0·4
	Falmouth ...	1032·7	40	N	4	by	1036·6	+2	32	-10	-	0	-	bc	9	-	44	30	oy.c.bc	bcy.cp	bc.bx	1·2
	Jersey (St. Aubin)	1028·6	43	NW	3	b	1035·7	*	33	-11	NW	2	-	c	1	-	47	31	b.bc	bc.b	bw	
	Portland Bill ...	1028·0	40	NW	5	bc	1034·0	+2	40	- 2	NW	4	NW	bc	3	0·1	44	36	bc.c	bcq.p	b.bc	*
	Dungeness ...	1023·1	35	WNW	3	b	1029·4	0	31	- 6	WNW	4	-	b	3	-	40	25	c.b	c.b	bc.bx	*
	Dover	*	*	*	*	*																
	Wick																					*
	Nairn	1022·6	33	NW	3	bc	1026·2	*	34	0	WNW	4	-	c	3	0·2	34	28	cq	c.psq	bcq.c	0·8
	Aberdeen ...	1019·7	31	WNW	6	b	1024·4	+1	31	-2	WNW	2	-	b	3	4	34	29	bcpsq	bcpsq	bcpsq	2·3
	Leith	1024·8	31	NW	1	b	1027·6	+1	30	-5	W	1	-	b	2	-	38	29	b.bcq.b	b	b.bx.b	*
	Tynemouth ...	1023·2	31	NNW	4	b	1026·7	+2	29	-5	NW	2	NW	bm	4	-	37	28	cmq	bcq	bm	*
	Spurn Head ...	1021·2	35	NW	7	bq	1026·4	+2	35	-4	NW	7	-	bq	6	-	39	35	bcq	bq	bq	0·0
	Yarmouth (Gorleston)	1019·0	37	NNW	8	op	1025·4	+2	33	-2	NW	6	-	bcqx	6	-	39	30	bcq	bcq.op	bc.oq.p	4·0
	Clacton-on-Sea	1022·2	36	WNW	4	b	1028·5	+2	32	-3	WNW	3	-	b	2	-	40	30	b.bc	bc.b	b	4·8
	Nottingham ...	1025·7	34	NW	4	b	1030·0	*	35	-2	NW	3	-	b	*	Trace	37	27	bcpS	bc.b	b	2·8
	Benson (Oxon.) ...	1026·2	33	NW	3	b	1032·3	+2	28	-6	-	0	-	b	*	0·1	38	25	b	b	bx	*
	Sth Farnborough	1026·5	34	WNW	3	b	1032·7	+2	29		WNW	3	-	b	*	-	40	25	bc.cp	b.bq.b	f.s.p.b.b	7·3
	Salisbury Plain						1034·2	+5	28	-6	W	3	-	b	*	-	39	25			bq	*
	London (Kew Obsy.)	1025·4	35	WNW	3	b	1032·5	+2	31	-4	W	2	-	bmx	*	-	40	30	bc.ps	b	b.bmx	6·4
NORTHERN EUROPE.	Spitsbergen ...	1003·5	1	ENE	4	0	1002·7	0	0	0	E	6	*	b	*	*	1	-2				
	Vardö	997·8	18	S	4	0	9879	-3	14	-7	SW	6	-	b	4	*	21	?				
	Bodö	9979	16	E	4	b	9994	0	18	+4	E	4	-	0	2	-	19	16				
	Christiansund ...	997·2	25	-	0	b	1004·2	+6	27	-4	-	0	-	c	4	17	28	23				
	Skudesnaes ..	9963	32	NNW	9	S	1006·6	+6	27	-12	N	9	-	S	7	-	39	?				
	Færder (X'laniaFjord)	989·1	28	NNW	7	bc	998·2	+4	25	-19	NNW	6	-	b	2	Trace	39	25				
	The Scaw (Skagen)	986·3	32	N	7	0	997·9	+4	28	-9	NNW	6	-	bc	6	-	39	27				
	Blaavands Huk	9962	37	NW	9	r	1001·1	+1	37	-2	N	6	-	c	*	2	45	30				
	Copenhagen ...	983·4	36	NNW	6	r	996·7	+5	30	-7	NNW	4	-	S	*	1	39	28				
	Bornholm ...	977·2	36	NW	9	c	993·5	+6	28		NW	8	-	b	2	1	39	27				
FRANCE, &c.	The Helder ...						1017·5	+3	37	-4	NNW	9	-	r	7		45	36				
	C. Gris Nez ...	1022·6	39	NW	7	0	1029·6	+2	37	-3	NW	7	*	b	8	-	41	34				
	La Hève	1024·6	41	NW	5	bc	1032·0	*	40	-3	N	5	*	bc	5	-	43	37				
	Brest (St. Mathieu)	1034·2	47	NNW	5	bc	1036·0	+1	42		ESE	4	*	bc	5	-	54	39				
	Rochefort (Ile d'Aix)	1030·6	47	NNW	4	0	1035·6	+3	38	-9	NE	4	*	b	*	-	52	37				
	Biarritz	1029·9	49	NNE	2	0	1032·2	+1	42	-10	ENE	2	*	0	8	1	54	41				
	Paris	1025·5	37	WNW	2	bc	1032·0	+3	32	-15	WNW	3	-	b	*	1	45	32				
	Belfort	1024·7	32	W	6	bc	1029·8	*	26	-14	W	6	*	c	*	2	45	24				
	Lyons	1026·2	39	NNW	2	0	1031·8	*	33	-9	NNW	3	*	b	*	1	45	32				
	Nice	1013·6	46	-	0	b	1018·6	+3	42	+1	-	0	*	bc	2	-	55	39				
	Perpignan ..	10256	50	NW	4	0	1029·5	-4	45	-7	NW	5		b	*	6	54	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1030·4	54	NE	3	c	1030·6	+2	43	-9	-	0	-	b	4	-	59	?				
	Madrid	1027·9	50	-	0	b	1031·2	+3	37		-	0	-	b	*	-	52	37				
	Lisbon	1027·4	55	WNW	3	b	1027·0	+1	41	-14	NW	3		b	5	-	57	41				
	Azores (Horta) ...	1016·0	*	NNW	2	bc	1019·1		59	-2	NW	4	*	b	3	1	64	?				
	Madeira	1024·4	64	SE	2	0	1024·6	0	61	-2	SE	3	-	c	3	-	70	59				
	Gibraltar	1026·1	52	W	1	m	1026·1	*	49		E	3	*	m	3	-	62	46				
	Malta	*	*	*	*	*	1018·7	+1	57	-2	WNW	3	-	r	3	1	63	50				
	Limassol	*	*	*	*	*	1019·2	-1	57	-2	SE	1	-	b	4	-	73	45				
	Alexandria ...	1017·9	64	NE	2	b	1017·2		64	-2	-	0	-	m	0	-	77	59				
	Cairo (Helwan) ...	1016·4	64	NE	3	b	1015·9	+1	59	-4	-	0	-	0	*	-	81	50				

LONDON 3RD DEC. 9h. G.M.T.	Humidity. 15 h. 2ND	Humidity. 9 h. 3RD	Sunshine for 2ND	24 Hours ended 9 h. 3RD: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	69	74	6·1	39	30	22	-	b	b	b
CITY (Bunhill Row)	*	*	4·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	83	52		45	36	23	-	bc	bc	bc
CAMDEN SQ. (British Rainfall) ..	*	77	4·7	40	29	22	-	*	*	*
S. KENSINGTON (Museum Grounds)	*	75	5·8	42	30	*	-	bc	bc	bc

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 2ND

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
300	10·2	19

The thermometers at Greenwich and Camden Square are in Glaisher screens.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,466. TUESDAY, 4TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature remained below 40° in most English and Scottish localities, and sharp frost occurred at night. In Ireland the thermometer rose to between 40° and 50°. Rain fell in the most Western and North-Western districts, the largest measurement being 12 mm. at Valencia (Cahirciveen). Bright sunshine was abundant in most parts of Great Britain, but in Ireland there was very little.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 3RD DECEMBER

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 3RD Hr.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff							
	Montrose	-	-	36	31	b	b	5·6
	St. Andrews	-	-	38	29	b	b	4·3
Eng. N.E.	Harrogate	-	-	39	26	b	b	6·2
	Skegness	-	-	38	29	b	b	5·8
England, E.	Felixstowe	-	-	38	30	bv	bv	6·2
	Southend-on-Sea	-	-	42	27	b	b	6·9
England, S.E.	Margate	-	-	41	34	b	b	4·0
	Hastings	-	-	41	28	b	b	7·3
	Eastbourne	-	-	44	30	b	b	7·2
	Seaford	*	*	49	29	b	b	6·6
	Worthing	-	-	41	27	b	b	7·1
	Littlehampton							
	Bournemouth	-	-	43	29	b	b	6·8
Scotland W.	Oban	6	-	39	31	o. c	b	1·6
Eng. N.W.	Morecambe	-	-	40	33	*	*	2·8
	Southport	2	2	48	34	bc. c. o	oh. c. o. h. r. c	3·9
Midlands.	Malvern	-	-	40	31	b	b	6·0
	Ross-on-Wye	-	-	44	29	b	b	5·0
Wales.	Rhyl	2	-	43	34	bc	c	0·5
	Colwyn Bay	1	1	42	33	c. ph	b. f	1·1
	Llandudno	*	*	43	33	c	c	1·7
	Aberystwyth	*	*	42	33	r. o. c	c. o	1·7
England, S.W.	Weymouth	*	*	43	30	b	bz	6·9
	Torquay	-	-	43	29	b	b	6·7
	Paignton	*	*	45	27	b	b	7·0
	Penzance	-	-	47	32	b	b	5·5
	Newquay	-	-	44	29	b	b	5·4
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 3RD DECEMBER

	STATIONS.	Evening of 2ND: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 3RD: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	995·3	3	ENE	3	o									*	
	Hangö	976·2	37	-	0	0	979·8	0	32		-	0	0	-	*	30
	Yuriev															
	Petrograd	978·7	36	SW	5	r	976·2	-1	34		SW	4	S	4	36	28
	Vijni Volotchok	986·7	34	SW	2	b										
	Gorki	995·5	37	W	1	0	997·0	*	34		W	1	0	2	*	34
	Moscow	995·1	36	SSW	2	0	992·3	+2	36		SSE	2	0	-	*	36
	Kiev	1000·8	?	SW	3	r									*	
	Kharkov	1007·3	?	S	2	0									*	
	Kishinev	1007·0	?	SSW	4	bc									*	
	Elisabetgrad	1009·9	52	S	3	0									*	
	Nicolaiev	1012·3	54	SSW	5	c		*							*	
	Odessa	?	54	SW	5	0									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1010·6	43	-	0	c	1015·8	*	37	-6	NNE	1	b	-	46	36
	Turin	1015·8	41	-	0	b	1022·2	*	34	-7	-	0	b	-	46	34
	Pesaro	1011·0	46	NW	2	b	1015·8	*	43	-2	NW	4	b	-	50	41
	Leghorn	1011·8	57	-	0	b	1016·0	*	43	-9	-	0	b	-	57	43
	Rome	1013·3	46	E	1	bc	1015·3	*	43	-5	-	0	c	4	57	41
	Viesti	1011·3	54	-	0	b	1012·5	*	50	-5	NW	1	0	1	57	50
	Brindisi	1012·1	52	S	1	bc	1013·5	*	50	-7	S	3	0	1	61	50
	Cagliari	1017·8	52	W	6	bc	1017·9	*	52	0	WNW	6	0	1	59	46
	Palermo	1017·4	54	-	0	bc	1017·5	*	54	0	-	0	0	-	61	52
	Tripoli						1024·6	*	61	+5	N	1	b	-	*	55
	Algiers	1025·1	57	-	0	0	1026·8	+2	54		W	2	b	-	63	50
Sweden.	Hernösand						992·7	*	28	+1	NE	8	0	*	*	*
	Stockholm	977·4	28	N	2	S	983·8	*	27	-10	NW	8	S	*	*	*
	Wisby	977·6	34	S	2	bc	985·1	*	27	-14	W	8	0	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1026·2	18		-	0	bc
Reykjavik	1028·2	28		E	1	S
Vestmanna	1029·4	21		-	0	b
Seydisfjord	1029·2	12		N	2	b
Thorshavn	1021·1	23		NNW	5	0

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

4TH AND 5TH DEC 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·46	11·43	3·40
	7·47	11·44	3·40
Greenwich	7·49	11·50	3·52
	7·50	11·51	3·52
Wick	8·43	12·2	3·22
	8·45	12·3	3·21
Valencia	8·32	12·31	4·30
	8·33	12·32	4·30

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF Tuesday, 4TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. =° mist. ⊤ thunder. ⚡ thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

LOW

LOW

LOW Barometer falling 32° 1025m/m. 1015m/m. 1020m/m.

Barometer rising 1005m/m. 1010m/m. 1015m/m. 1020m/m. 1025m/m.

Bar rising slightly 1030m/m.

HIGH 1035m/m.

HIGH 1035m/m.

1025m/m. 1020m/m.

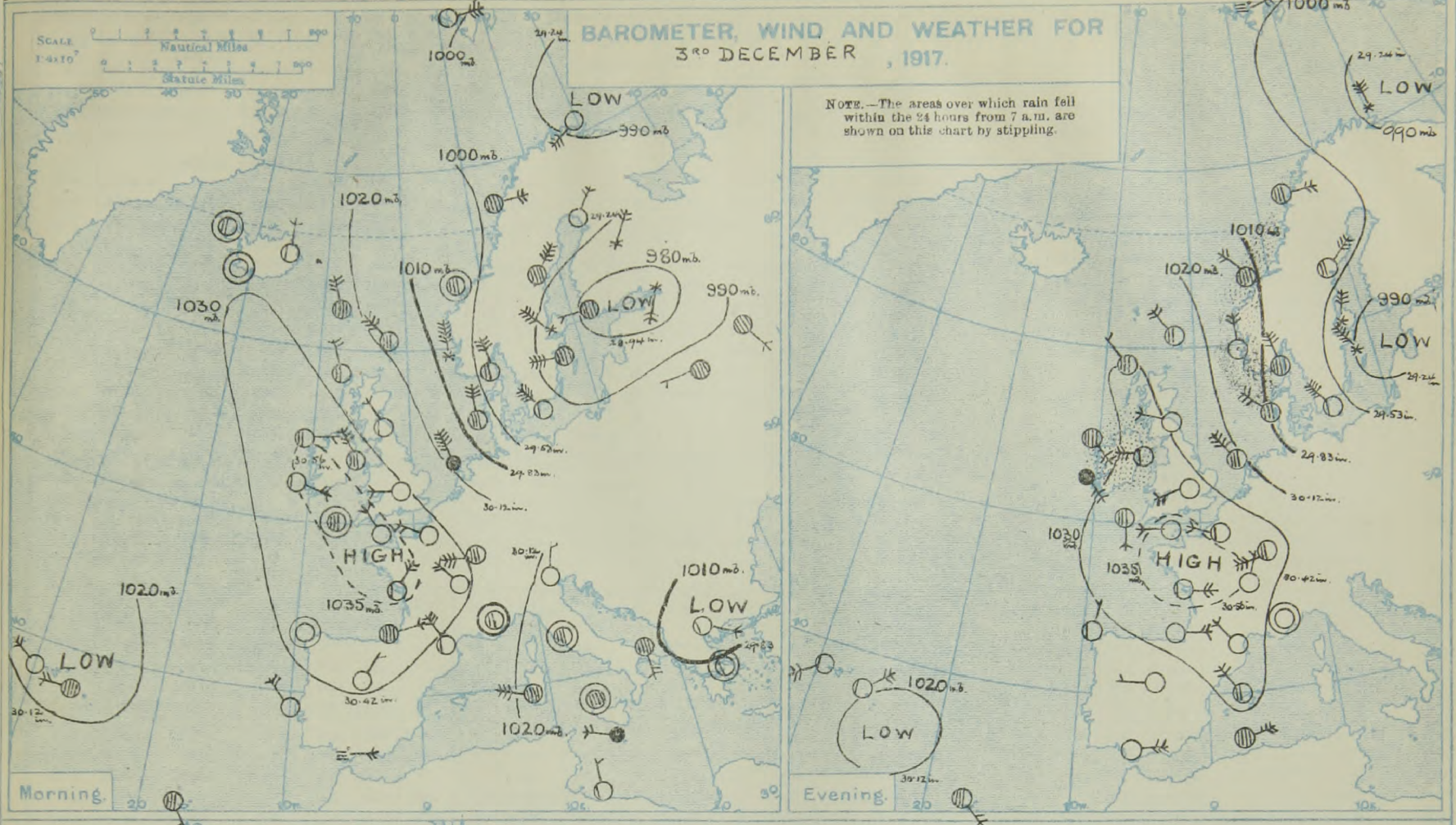
SCALE 1 : 8×10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 600

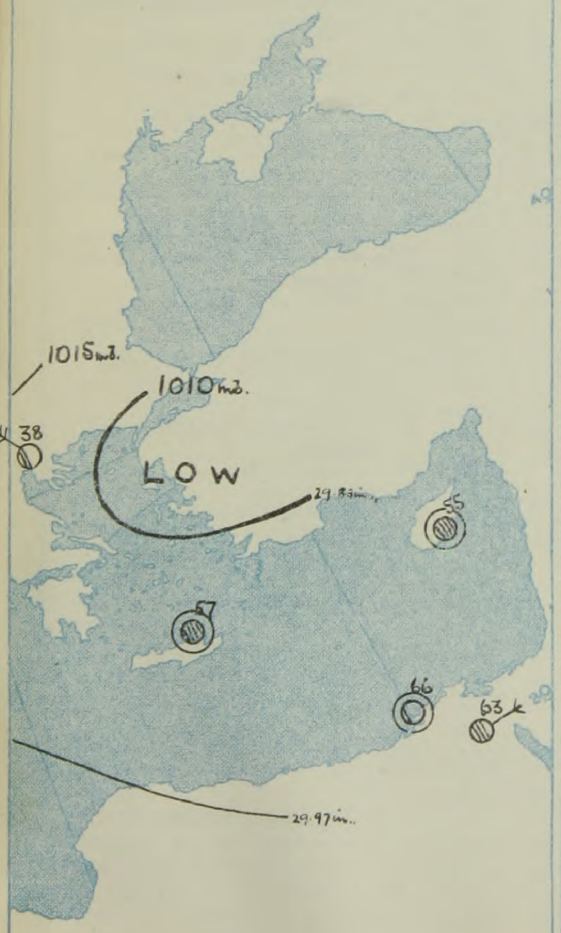
Normal Temperature of the Sea.

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 3RD DECEMBER, 1917.





The Present Situation

An anticyclonic wedge stretching from the South of France to the North-East of Scotland is moving slowly eastward, while a depression centred far beyond the West of Ireland is spreading slowly eastward and apparently moving in a north-easterly direction. The lowest pressure is still found over the Baltic, where the wind is strong to a whole gale from the North. Over Ireland and the West of Britain the wind has become Southerly, with a rapid rise of temperature, but over Britain generally there is a light variable or North-Westerly wind and a low temperature.

The General Outlook

It seems probable that both the high and low pressure systems will move in some Easterly direction and that the South and South-West wind, with less fine, but milder weather, will extend to all parts of the British Isles.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 338. Tuesday, 4th DECEMBER

	STATIONS.	EVENING OF ...3rd... Barom. Millibars at M.S.L.	Temp	Wind. Direc	Force 0-12.	Weather.	MORNING OF ...4th... Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ...4th. Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for 3rd Hours.
			°F					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1024.6		NW	4	bcq																*
	Deerness (Orkney)	1026.7	30	NNW	6	cpsh		*											cpsh	cpsh		
	Stornoway ...	1030.1	33	NW	1	c	1023.7	-6	36	+2	S	6	-	oq	5	-	36	26	c	c	c.bc oq	0.0
	Castlebay (Barra Isd.)	1031.2	37	-	0	c	1023.2	-3	40	+3	SE	5	-	odp	5	8	42	35	cshp.o	oshp.c	o.bcdp	0.6
	Glasgow ...	1030.3	32	WNW	1	bz	1029.1	-3	26	-4	ENE	2	-	cm	*	-	36	24	b.bcz	bc.oz.	bg.omx	1.3
	Eskdalemuir ...	1031.0	27	S	1	bx									*				bvx.bc	bc.b		
	Malin Head ...	1030.3	40	NW	3	bc	1020.5	-7	37	-3	S	5	-	omrq	5	3	43	33	bcq	bc	omrq	2.0
	Blacksod Point	1028.3	36	SE	4	omr	1026.6	-5	47	+12	SSE	7	-	omr	6	9	47	34	bc	bcm	omr.fr	*
	Valencia (Cahirciveen)	1027.0	45	SE	5	r	1020.0	-4	48	+12	S	5	-	op	8	12	50	36	b.bc.o	or	r.op	0.0
	Roche's Point	1031.7	44	S	4	r	1024.2	*	47	+17	S	4	-	o	4	9	48	29	b.bc.c	or	or	*
	Birr Castle ...	1031.8	35	SE	1	m	1023.2	*	46	+23	S	2	-	o	*	3	46	23	bc	bcf	f.or.o	1.7
	Donaghadee ...	1030.3	35	W	3	bcm	1025.4	-3	40	+5	SSE	4	-	omr	8	8	40	30	bcqph	bcm	bcm.or	*
	Liverpool (Bidston)	1031.8	38	W	5	c	1030.0	-2	34	-2	WSW	2	-	bm	2	2	42	34	bcp	b.op	o.c.b	3.7
	Holyhead ...	1032.5	40	W	5	b	1027.5	-3	38	-3	E	5	-	or	4	2	43	37	c.bc.c	c.bc.b	b.c.or	3.8
	Pembroke (St. Ann's)	1034.1	41	SW	2	bcv	1028.3	-3	47	+10	S	4	SE	or	4	1	47	36	bv.bcv	bcv	bcv.or	6.2
	Hartland Quay	1034.5	44	WSW	2	o	1029.7	-2	42	0	SSE	3	-	o	3	-	44	39	bc.b	b.bc.c	b.omo	*
	Scilly (St. Mary's)	1033.8	45	S	2	c	1028.4	-1	47	+11	S	4	S	c	4	-	47	36	c.bc	bc.c	c.bc.c	3.7
	Falmouth ...	1034.2	37	S	2	by	1029.6	-2	45	+13	S	2	-	o	*	-	47	30	bx.by	by.b.bc	bz.bc.o	6.6
	Jersey (St. Aubin)	1035.2	37	W	2	b	1032.8	*	41	+8	S	3	-	o	2	-	46	32	b.bc	bc.b	bc.o	5.8
	Portland Bill ...	1034.8	41	NW	3	bc	1031.5	-2	45	+9	SW	2	SW	c	2	-	45	37	bc	bc	bc.c	*
	Dungeness ...	1031.0	34	WNW	4	b	1032.5	0	28	-3	NW	3	-	b	2	-	40	26	b	b	b.bx	*
	Dover	*	*	*	*	*													*	*		
	Wick	1028.1	30	N	4	omps	1028.3	-3	33	+2	S	2	-	bc	2	0.2	34	27	bcqps	c.omps	c.o.bcm	*
	Nairn	1029.3	33	SW	1	cg	1027.9	*	23	-9	-	0	-	cg	1	-	35	19	cg	cg	c.bc.c	0.0
	Aberdeen ...	1028.3	29	WNW	3	b	1030.2	-1	24	-7	WNW	3	W	b	2	1	33	23	bcspq	bcsp	b.bc.b	2.4
	Leith	1029.3	34	W	1	c	1029.7	0	29	-1	SE	1	E	c	1	-	37	28	by.b.bc	bc.bz.c	cz.b	*
	Tynemouth ...	1028.1	33	WNW	2	bm	1030.6	0	26	-3	WNW	2	-	bm	3	-	37	26	bcm	bcm	bm	*
	Spurn Head ...	1028.0	37	NNW	4	bq	1030.9	+1	35	0	NW	4	-	bxq	6	-	39	32	bq	bq	bxq	0.0
	Yarmouth (Gorleston)	1027.7	35	NW	4	b	1030.8	+1	31	-2	NW	2	-	bcm	2	1	39	30	bcq.b	bm	bcmhs	6.1
	Clacton-on-Sea	1029.8	36	WNW	4	b	1029.8	+1	36	+4	WNW	4	-	b	2	-	39	28	bz	bz	bzx	6.0
	Nottingham ...	1030.6	37	W	3	b	1032.1	*	27	+8	E	1	-	bx	*	-	39	26	bm	bcm	bc.c	1.2
	Benson (Oxon.) ...	1032.6	34	W	2	b	1032.0	0	25	-3	-	0	NW	bcx	*	-	39	24	b	b	bx	*
	Sth Farnborough	1033.3	33	WNW	3	b	1033.2	0	25	-4	ENE	2	NW	bmx	*	-	41	24	bz	bz.b	b.bmx	7.1
	Salisbury Plain	1034.6	30	WNW	2	b	1032.2	-3	29	+1	E	2	-	bc	*	-	40	26	b.bc	bc	bc	*
	London (Kew Obsy.)	1032.4	36	WSW	3	b	1033.1	+1	28	-3	-	0	-	bmx	*	-	41	28	bmx bm b	b	b.bm.bmx	6.2
NORTHERN EUROPE.	Spitsbergen ...	1001.6	1	E	4	m	1001.8	0	1	+1	E	5	*	bc	*	*	1	-6				
	Vardö	989.1	23	N	6	s	995.9	-2	21	+7	N	6	-	o	3	*	23	10				
	Bodö	1014.7	28	E	4	c	1011.2	+3	25	+7	W	5	-	s	2	?	28	14				
	Christiansund ...	1011.6	32	NW	4	o	1021.4	+3	32	+3	NNW	4	-	c	5	10	32	23				
	Skudesnaes ..	1015.6	27	N	4	b	1023.9	+3	28	+1	N	3	-	b	3	?	28	25				
	Færder (K'tiania Fjord)	1007.8	30	NNW	6	bc	1019.1	+4	30	+5	NNW	6	-	b	2	-	30	25				
	The Scaw (Skagen)	1005.0	32	NNW	6	o	1019.0	+4	34	+6	NNW	5	N	bc	5	-	34	28				
	Blaavands Huk	1008.6	34	NW	5	c	1023.0	+8	30	-7	NNE	1	-	b	*	Trace	41	27				
	Copenhagen ...	1003.0	28	N	4	bc	1017.0	+7	30	0	N	3	-	b	*	-	32	27				
	Bornholm ...	999.4	28	NW	9	b	1009.8	+9	28	0	NNE	10	-	o	3	-	28	25				
FRANCE, &c.	The Helder ...	1022.3	36	NW	7	c	1028.0	+4	36	-1	NNE	3	-	c	3	3	39	34				
	C. Gris Nez ...	1030.7	39	NW	5	bc	1032.0	+1	36	-1	N	3	*	b	3	-	43	36				
	La Hève	1033.6	41	NNW	5	bc	1031.5	*	43	+3	WNW	4	*	o	3	-	45	40				
	Brest (St. Mathieu)	1035.4	41	SSE	3	b	1030.7	-2	40	-2	SE	4	*	b	3	-	45	39				
	Rochefort (Ile d'Aix)	1033.9	37	E	4	b	1032.4	-1	32	-6	ESE	5	*	c	*	-	52	32				
	Biarritz	1032.0	42	E	3	b	1028.2	0	32	-10	ESE	4	*	b	2	-	50	32				
	Paris	1033.1	39	WNW	2	b	1033.1	+1	28	-4	W	1	-	b	*	-	43	28				
	Belfort	1033.6	27	WSW	6	bc	1032.4	*	28	+3	WSW	5	*	o	*	?	32	24				
	Lyons	1036.4	30	-	0	b	1035.4	*	27	-6	-	0	*	b	*	-	37	45				
	Nice	1025.0	41	-	0	b	1024.6	-1	37	-5	-	0	*	b	3	-	50	36				
	Perpignan ..	1033.6	39	NW	2	b	1032.2	-1	27	-18	SW	1	-	b	*	-	52	27				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1028.0	54	NNE	1	b	1027.0	+1	46	+3	SSW	5	SW	o	2	-	55	43				
	Madrid	1027.2	32	-	0	b	1035.4	+2	36	-1	-	0	-	o	*	?	54	34				
	Lisbon	1026.2	35	-	0	b	1028.6	+1	43	+2	NNW	2	-	b	5	-	57	41				
	Azores (Horta) ...	1016.8	*	NW	4	o	1023.9	0	59	0	ESE	3	*	b	2	-	66	59				
	Madeira	1023.8	64	SE	3	c	1024.8		61	0	E	1	-	o	2	-	70	59				
	Gibraltar	1027.4	58	E	5	b	1027.1	*	58	+9	E	5	*	bc	4	-	60	48				
	Malta	*	*	*	*	*	1022.3	+8	54	-3	NW	3	-	b	4	-	61	54				
	Limassol	*	*	*	*	*	1014.4	-1	55	-2	-	0	-	o	4	-	73	46				
	Alexandria ...	1015.0	66	ENE	2	o	1014.3	+1	66	+2	-	0	W	b	0	-	79	59				
	Cairo (Helwan) ...	1014.2	66	NE	2	c	1013.5	+2	63	+4	E	2	W	c	*	-	81	55				

GALES.

Duration and Extreme Force in British Isles.

Omitted from Yesterday's Report.

Stornoway.
NNW 8 at 13h (2nd)

Eskdalemuir
NW 8 at 9h (2nd)

Malin Head
N 8 at 13h (2nd)

Blacksod Point
Gale: NNW 8, 8-10h (2nd)

Donaghadee
Gale: NW 8, early morning - 17h (2nd)

Southport
Gale, 8-12h: Extreme NW 8 and Gusts 26 m/s (2nd)

Holyhead
NNW 8 at 13h (2nd)
" 9 at 15h: gusts 25 m/s.

Hartland Quay.
Squalls force 8, 7h - early evening (2nd.)

Wick
NNW 8 at 18h (2nd)

Aberdeen
Gust, NW 25 m/s at 13h (2nd)

Spurn Head
NNW 8 at 13h (2nd)

Gorleston
NNW 8 at 13h (2nd)

Kew
Extreme Gusts 18 m/s at noon (2nd)

LONDON Ath. December, ..9h. G.M.T.	Humidity. 15 h. 3rd.	Humidity. 9 h. 4th.	Sunshine for 3rd. Hours.	24 Hours ended 9 h. ...4th... Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	67	80	4.0	39	23	19	-	bz	bz	bz bx
CITY (Bunhill Row)	*	*	4.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	75	100	4.3	43	32	23	-	bc	bc	bin
CAMDEN SQ. (British Rainfall) ..	73	-	4.8	41	23	22	-	b	b	*
S. KENSINGTON (Museum Grounds)	*	76	5.1	39	28	?	-	bc.b	bz	bz

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ... 3rd.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
230	8.1	17

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 2046Z. WEDNESDAY, 5TH DECEMBER .1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4)

Temperature failed to reach 40° over a wide area in Great Britain, touching only 33° at Harrogate. At some Irish stations the max. was about 50°. Rain fell at most places in the north and west, and except on the south-east and east coasts of England there was no bright sunshine.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 4TH DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 4TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	35	23	bc.c	c.o	0·7
	Montrose	-	-	37	24	bc	o	0·2
	St. Andrews							
Eng., N.E.	Harrogate	-	Trace	33	25	bc.c o	os	0·7
	Skegness	-	-	39	24	bc	o	4·2
England, E.	Felixstowe	-	-	40	27	bc.m	bc	4·8
	Southend-on-Sea	-	-	43	27	b	b.bc.c	4·5
England, S.E.	Margate	-	-	41	30	b	b	2·1
	Hastings	-	-	41	31	b	b.bc	5·0
	Eastbourne	-	-	43	30	b	bc.o.bc	3·5
	Seaford	*	*					
	Worthing	-	-	43	28	bc	bc	2·2
	Littlehampton							
	Bournemouth	-	-	45	26	o	o	0·0
Sc'tld W.	Oban	-	Trace	39	24	op	o	0·0
Eng., N.W.	Morecambe	-	-	39	30	*	*	0·0
	Southport	1	Trace	37	34	or.o	o	0·0
Midlands.	Malvern	-	-	41	29	o	c	0·0
	Ross-on-Wye							
Wales.	Rhyl	Trace	-	40	32	c.o	c.o	0·0
	Colwyn Bay	Trace	Trace	43	36	c	c	0·0
	Llandudno	*	*	43	34	c	c	0·0
	Aberystwyth	*	*	43	35	T.o	c.o	0·0
England, S.W.	Weymouth	*	*	46	32	3.bc.c	c	0·0
	Torquay	-	Trace	46	33	o	op	0·0
	Paignton	*	*					
	Penzance	-	-	49	37	o	o.c	0·0
	Newquay	-	-	46	31	o	o	0·0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 4TH DECEMBER.....

	STATIONS.	Evening of 3RD: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 4TH: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
RUSSIA 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö						1006·0	+6	18	-14	NNE	4	bc	1	*	16
	Yuriev															
	Petrograd	986·1	19	NW	3	o	997·0	+6	23	-11	NNE	4	o	10	50	18
	Vijni Volotchok	988·3	32	S	3	o	995·7	+5	25		SW	3	b	-	*	25
	Gorki	996·0	34	W	2	o	980·0	*	28	- 6	-	o	o	-	*	28
	Moscow						1001·5	+4	28	- 8	WSW	3	bc	-	*	27
	Kiev	1006·4	34	W	4	b									*	
	Kharkov	1004·6	36	WNW	2	o									*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
MEDITERRANEAN.	Venice	1021·9	39	NW	2	b	1020·1	*	36	-1	W	2	bc	-	50	36
	Turin	1024·3	36	-	o	b	1025·5	*	30	-4	-	o	b	-	46	30
	Pesaro	1022·7	39	W	4	b	1022·5	*	39	-4	W	3	b	-	46	36
	Leghorn	1024·5	45	-	o	b	1024·3	*	46	+3	-	o	b	-	55	41
	Rome	1022·6	43	?	3	b	1025·4	*	36	-7	-	o	b	-	52	32
	Viesti	1017·1	48	N	4	c	1021·8	*	45	-5	NW	3	o	1	52	45
	Brindisi	1017·3	50	WSW	2	o	1018·2	*	48	-2	NW	5	o	-	55	39
	Cagliari						1026·1	*	48	-4	NW	4	bc	-	59	45
	Palermo	1018·6	52	NW	3	o	1025·3	*	43	-11	-	o	b	-	57	39
	Tripoli						1026·6	*	59	-2	NE	1	o	7	*	55
	Algiers	1028·7	55	ENE	5	o	1030·1	-1	50	-4	-	o	b	-	63	50
SWEDEN.	Hernösand	1004·2	16	NE	6	bc	1013·2	*	5	-23	-	o	b	*	*	*
	Stockholm	993·2	23	NNE	6	s	1013·5	*	19	- 8	NW	2	o	*	*	*
	Wisby	989·9	28	NW	9	s	1008·0	*	30	+3	NNE	2	o	*	*	*

Morning of 4TH.....

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	998·6	30	+12	-	o	s
Reykjavik	999·3	32	+4	E	8	s
Vestmanna	998·7	37	+16	E	9	T
Seydisfjord	1010·6	34	+22	-	o	s
Thorshavn	1017·4	30	+7	s	5	o

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

5TH AND 6TH DEC. 1917.	Sunrise.	Noon.	Sunset.
	G.M.T.	G.M.T.	G.M.T.
Yarmouth	7·47	11·44	3·40
	7·49	11·44	3·39
Greenwich	7·50	11·51	3·52
	7·51	11·51	3·51
Wick	8·45	12·3	3·21
	8·47	12·3	3·20
Valencia	8·33	12·32	4·30
	8·35	12·32	4·29

Printed for the Meteorological Office, South Kensington, London, S.W. 7.

‡ The barometric change is expressed in half millibars.

THE MORNING OF WEDNESDAY, 5TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~. High ≈≈.

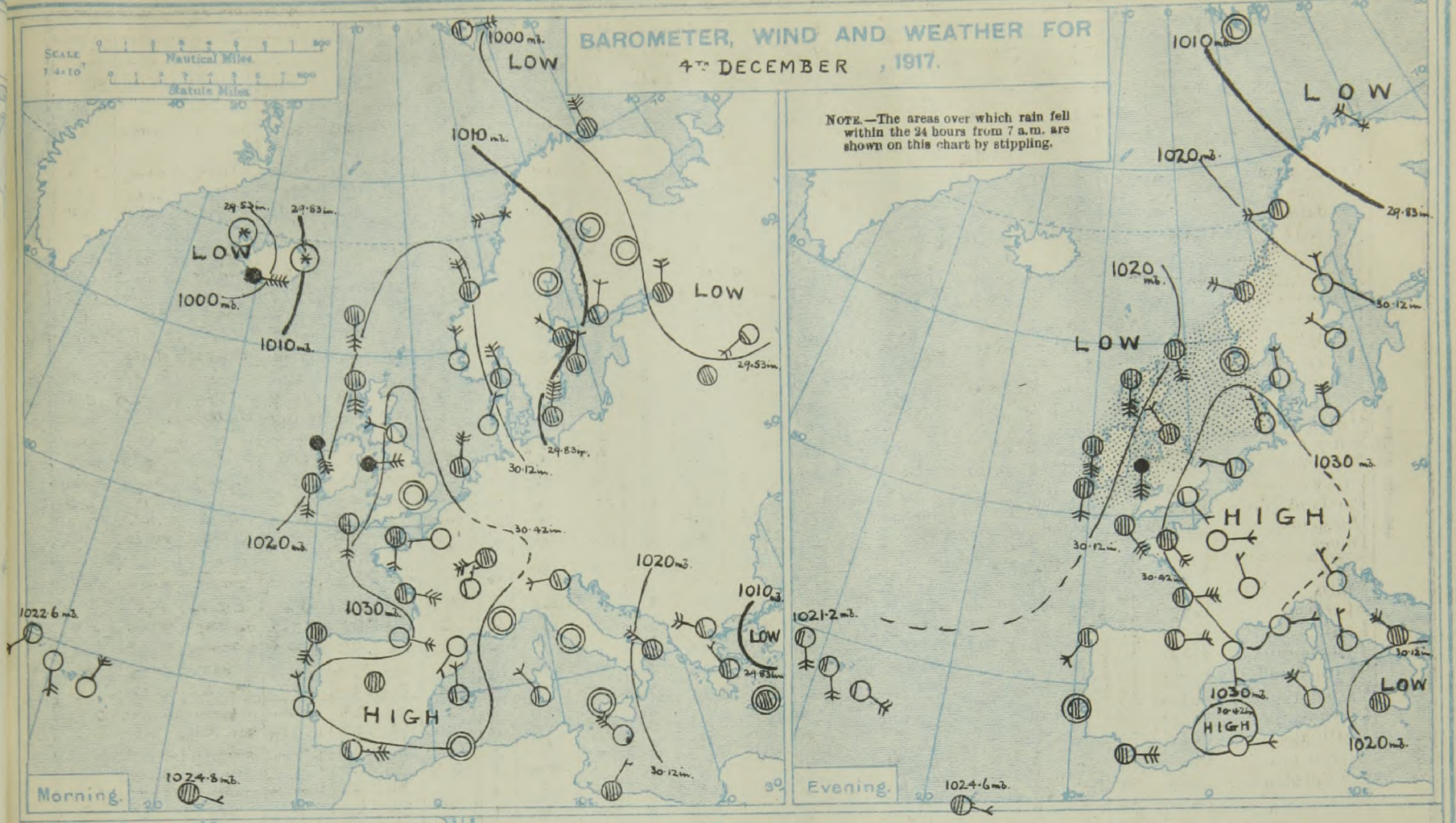
LOW

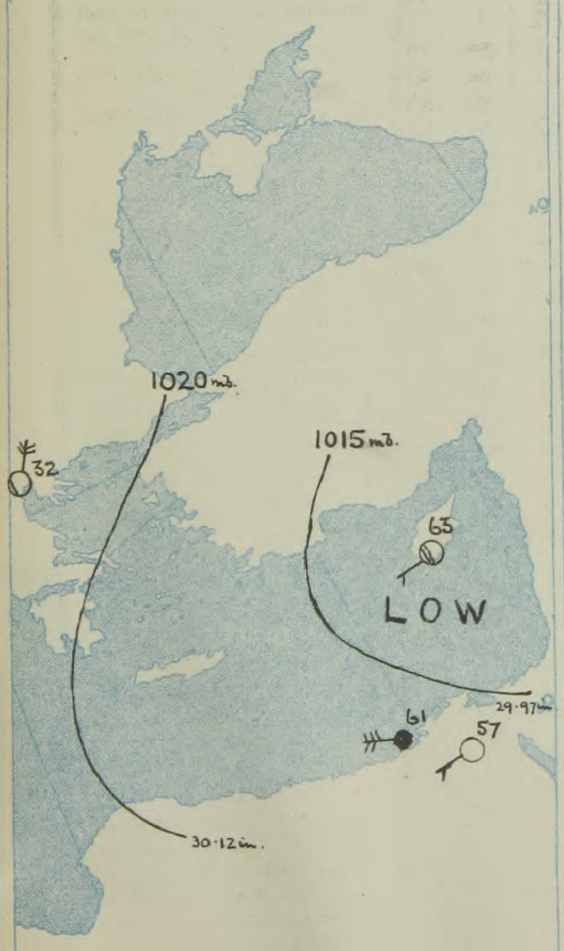
HIGH

29·68 in.
29·53 in.
29·83 in.
29·97 in.
30·12 in.
30·27 in.
30·42 in.
30·56 in.
40° Barometer falling
Barometer scarcely changing
Barometer rising slightly
1000 mb.
1005 mb.
1010 mb.
1015 mb.
1020 mb.
1025 mb.
1030 mb.
1035 mb.
1023 mb.

Scale 1 : 2 × 10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.





The Present Situation

The anticyclone has moved east-south-eastward and is now lying over Central Europe, while the Atlantic depression has travelled north-eastward, its centre remaining far beyond the British Isles, and is now apparently to the north-eastward of Iceland. Pressure is still falling in Norway, but is rising slightly in most parts of the British Isles. A fresh S. wind with showery weather prevails in Scotland and Ireland and also in the West of England. Fine weather prevails over Eastern England but the S. current gives rise to a decided rise of temperature there. Frost still prevails over France, and temperature is probably very low over Germany; at Groningen the morning reading was as low as 19°

The Outlook

The general distribution of pressure is very favourable for the passage of further depressions in a north-easterly direction over the NE. portion of the Atlantic. It is expected, therefore, that the winds over the United Kingdom will continue S. or SW. for a time, with less fair and milder weather on the Western coasts than in the east.

R. G. K. LEMPFERT. Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 339 — WEDNESDAY 5TH DECEMBER

	STATIONS.	EVENING OF 4TH: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 5TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 5TH: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 4TH Hours.
BRITISH ISLANDS.	Lerwick ...	1020·0	39	SSE	6	oq	1012·1	−1	44		SSW	4	-	om	4	9	44	26	bc	bc.oq	rqom	*
	Deerness (Orkney)							*														
	Stornoway ...	1013·7	43	S	7	opq	1012·4	+1	48	+12	SSW	6	-	opq	5	3	48	36	opq	opq	opq	0·0
	Castlebay (Barra Isd.)	1016·6	48	S	5	o	1015·7	0	49	+9	SSW	4	-	od	5	4	49	40	od.p.r	or	opd	0·0
	Glasgow ...	1022·9	34	ESE	1	omd	1020·9	+1	40	+14	S	1	-	omq	*	4	41	25	oms	oms.d	omd.oq	0·0
	Eskdalemuir ...														*							
	Malin Head ...	1015·5	45	SW	5	oqd	1016·2	+1	47	+10	S	4	SW	cq	4	3	47	27	cq	cqq	cq	0·0
	Blacksod Point	1013·3	47	S	7	omd	1017·5	+3	47	0	SSW	3	-	omd	4	5	48	44	omqr	omqr	od.omd	*
	Valencia (Cahirciveen)	1015·0	50	S	4	o	1021·2	+3	48	0	SW	2	-	m	3	10	51	48	od.r	or.o	ocm	0·0
	Roche's Point	1018·3	48	S	6	r	1021·3	*	47	0	SE	1	-	f	5	4	49	46	r.o	r	r.o.f	*
	Birr Castle ...	1018·5	46	S	2	o	1020·1	*	48	0	S	1	-	o	*	2	48	45	om.o	o	or.o	0·0
	Donaghadee ...	1019·9	45	SSW	4	omrq	1018·7	0	46	+6	SSW	4	-	omq	4	5	46	40	omr	omqd	omqd	*
	Liverpool (Bidston)	1026·8	37	SE	3	o	1024·3	0	36	+2	SE	3	E	o	2	1	38	34	o	o	o.c	0·0
	Holyhead ...	1023·2	44	S	6	om	1021·8	0	45	+7	S	7	-	opq	6	3	45	38	qpqq	oqq	op.qp.o	0·0
	Pembroke (St. Ann's)	1023·6	47	SSE	5	oq	1023·8	+3	46	−2	SSE	5	-	r	5	1	47	45	or.oqp	oq.oqp	oq.op.r	0·0
	Hartland Quay	1025·3	44	SSE	3	o	1024·8	+1	43	+1	SE	4	-	oq	3	-	45	42	od.o	o	o	*
	Scilly (St. Mary's)	1022·7	50	SE	6	o	1022·5	+2	49	+2	SSE	4	S	o	?	0·2	?	?	c.o	o	o.op.o	0·0
	Falmouth ...	1024·5	44	SSE	5	oqq	1024·4	+3	45	0	SSE	5	-	oq	*	-	47	43	o	oq.oqq	oq	0·0
	Jersey (St. Aubin)	1030·6	43	SE	4	o	1027·5	*	41	0	SE	5	SE	c	4	-	44	40	o.c.o	o	oc	0·0
	Portland Bill ...	1029·2	43	SSW	5	o	1026·9	0	44	−1	SSE	6	-	bc	5	Trace	46	43	c	c.o	c.bc	*
	Dungeness ...	1031·9	41	S	3	b	1031·1	0	40	+12	SW	5	SW	c	5	-	40	28	b	bc	bc.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1017·9	38	S	5	r	1018·2	0	44	+11	SSW	4	S	omr	4	4	44	33	bcm.oq	omrq	omrq	*
	Nairn	1019·8	35	-	0	owq	1015·4	*	43	+18	-	0	-	cq	0	0·3	43	25	ow	od.w	ogc	0·0
	Aberdeen ...	1023·4	36	SSW	3	o	1019·1	−1	39	+13	SSW	3	-	op	2	2	39	21	bc.c.oq	oq.rsp	orsp	0·0
	Leith	1022·8	35	SE	1	o	1019·6	0	41	+12	SW	2	-	o	2	1	42	28	oq.os.s	s.omd.o	ogq.s	*
	Tynemouth ...	1026·8	34	NW	2	om	1023·6	?	38	+12	S	3	-	omq	3	?	39	26	f	om	omq	*
	Spurn Head ...	1030·4	37	SSW	3	o	1029·1	0	36	+1	S	4	-	o	5	-	39	34	b	bc.o	c.o	0·0
	Yarmouth (Gorleston)	1031·7	32	SW	1	b	1031·4	+1	?		SW	2	-	bcm	2	-	39	29	bcm	b.m	bmx.bc	2·8
	Clacton-on-Sea	1032·3	39	SSE	3	bc	1031·7	+1	39	+3	SSE	4	SW	bc	3	-	41	28	b.bcq	bcq.bc	bc	4·6
	Nottingham ...	1030·0	36	S	2	o	1028·5	*	35	+8	S	2	S	bc	*	Trace	37	23	f.m.o	omfs	ofs.c	0·0
	Benson (Oxon.) ...	1030·1	35	SE	3	bc	1028·8	+2	34	+9	SE	3	-	cmx	*	0·3	38	24	oq	oq	omx	*
	Sth Farnborough	1031·1	38	SSE	2	om	1029·9	+1	37		SSE	3	SW	c	*	1	38	25	bm.om	om	bm.om	0·9
	Salisbury Plain	1031·1	35	SE	2	o	1028·8	−2	32	+3	ENE	2	-	c	*	4	39	28	o	m	oqr	*
	London (Kew Obsy.)	1031·7	36	SE	1	om	1030·6	+2	38	+10	SE	1	-	o	*	-	39	27	bm.f.om	omx bcm	omcm	0·0
NORTHERN EUROPE.	Spitsbergen ...	1003·9	−8	-	0	b	1005·6	0	−17	−18	SE	1	*	b	*	*	3	−17				
	Vardö	1000·7	23	NW	4	s	1006·6	+1	21	0	NW	3	-	o	3	*	23	12				
	Bodö	1017·2	28	W	4	c	1009·4	−5	39	+9	W	2	-	c	2	*	?	23				
	Christiansund ...	1023·6	32	WNW	4	o	1010·8	−7	37	+5	NW	5	-	o	5	2	?	28				
	Skudesnaes ..	1029·9	39	-	0	b	1023·0	−5	?		S	5	-	r	5	2	?	?				
	Færder (X'tania Fjord)	1028·8	30	NNW	2	b	1028·2	−2	34	+4	SW	2	-	c	1	-	34	28				
	The Scaw (Skagen)	1026·7	34	N	2	b	1030·0	0	32	−2	SW	2	-	b	2	-	36	27				
	Blaavands Huk	1029·6	34	NNW	1	b	1032·2	+1	39	+9	SE	2	-	o	*	1	39	27				
	Copenhagen ...	1029·0	28	N	2	b	1033·9	+1	27	−3	W	1	-	f	*	-	32	23				
	Bornholm ...	1025·2	28	N	6	b	1032·7	+2	28	0	NNW	2	-	fc	0	-	30	27				
FRANCE, &c.	The Helder ...	1032·3	38	WNW	1	b	1034·0	+2	30	−6	S	4	-	o	2	-	41	28				
	C. Gris Nez ...	1033·2	35	SE	1	b	1032·7	0	31	−5	SE	3	*	bc	2	-	43	30				
	La Hève	1029·9	37	SSE	3	bc	1029·1	*	34	−9	SE	4	*	c	2	-	43	34				
	Brest (St. Mathieu)	1025·2	48	SSE	5	o	1024·2	+1	42	+2	ESE	5	*	c	4	Trace	?	41				
	Rochefort (Ile d'Aix)	1029·4	39	E	5	c	1025·4	−1	34	+2	ESE	4	*	bc	*	-	41	34				
	Biarritz	1026·3	44	E	3	c	1023·2	0	48	+16	SSW	2	*	o	1	-	48	?				
	Paris	1033·6	30	E	2	b	1032·7	−1	27	−1	E	3		b	*	-	41	27				
	Belfort							*					*		*							
	Lyons	1033·6	30	NNW	1	b	1034·2	*	25	−2	-	0	*	bc	*	-	39	24				
	Nice	1025·4	40	E	1	b	1032·0	+3	38	+1	E	2	*	bc	4	-	48	36				
	Perpignan ..	1029·8	32	S	1	b	1029·9	+1	30	−7	W	1	4	bc	*	-	46	?				
	Sanguinaire ...	1023·4	52	NW	3	bc	1027·6	*	45		E	2	*	c	4	-	59	43				
SOUTHERN STATIONS.	Corunna	1026·3	54	SW	3	c	1025·9	+2	54	+8	W	2	-	c	*	9	55	54				
	Madrid														*							
	Lisbon	1027·8	54	-	0	c	1027·0	0	45	+2	NW	1	-	b	6	-	55	45				
	Azores (Horta) ...	1024·0	*	-	0	c	1023·1	−1	63	+4	SSW	5	*	o	4	3	66	61				
	Madeira	1024·6	63	E	1	c	1025·1	+1	63	+2	E	1		o	2	-	68	59				
	Gibraltar	1027·7	59	E	5	c	1025·0	*	57	−1	E	4	*	c	3	-	61	56				
	Malta	*	*	*	*	*	1023·0	+3	54	0	NW	4	-	c	4	2	55	50				
	Limassol	*	*	*	*	*	1011·6	+1	63	+8	W	1	-	bc	3	-	73	54				
	Alexandria ...	1014·6	66	-	0	b	1016·6	+2	61	−5	WNW	5	-	r	3	2	77	59				
	Cairo (Helwan) ...	1013·1	68	NNW	3	b	1016·3	+2	57	−6	W	1	-	b	*	-	77	54				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 5TH DEC. 9h. G.M.T.	Humidity. 15 h. 4TH	Humidity. 9 h. 5TH	Sunshine for 4TH Hours.	24 Hours ended 9 h. 5TH: Temperature. Max. °F	Temperature. Min. °F	Temperature. Min. on Grass. °F	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	67%	80%	0·8	55	34	28		c	c	bc
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	64	76	0·0	42	38	25	-	cm	c	c
CAMDEN SQ. (British Rainfall) ..	61	77		40	26	23	-	m.f	o	*
S. KENSINGTON (Museum Grounds)	*	80	0·0	41	29	*	-	om.f	o	o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 4TH

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
120	4·0	9

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. + Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20468. THURSDAY, 6TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature rose to about 55° over the Northern and Western districts but not much above 40° in the South-East. Very sharp frost was experienced at night in the South Midlands, the thermometer falling to 25° or below over a large area. Slight rain fell at various places in the West and North, and except over the Southern half of England there was little or no bright sunshine.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 5TH DECEMBER.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 5TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	3	-	43	34	c.bc	bc.b	2.7
	Montrose	-	-	45	40	0	0	0.0
	St. Andrews	-	-	45	33	0	c	0.7
Eng. N.E.	Harrogate	-	-	40	32	0	0.c	0.0
	Skegness	-	-	40	35	bc	b	5.1
England, E.	Felixstowe	-	-	40	27	bc	bc.b	3.6
	Southend-on-Sea	-	-	41	32	bc	b	2.2
England, S.E.	Margate	-	-	40	34	b	b	2.0
	Hastings	-	-	42	39	0.bc	bc	3.7
	Eastbourne	-	-	43	39	bc	b	4.5
	Seaford	*	*					
	Worthing	-	-	44	40	b	b	5.7
	Littlehampton							
	Bournemouth	-	-	47	40	b	b	6.2
Scotland, W.	Oban	4	3	48	33	r.0	0	0.0
Eng. N.W.	Morecambe	Trace	2	41	36	*	*	0.0
	Southport	Trace	-	41	36	or.0	od.0	0.0
Midlands.	Malvern							
	Ross-on-Wye	-	-	44	33	b	b	6.2
Wales.	Rhyl	Trace	-	46	36	or	c	0.0
	Colwyn Bay	-	-	48	39	c	c	2.5
	Llandudno	*	*	48	40	c	.c	1.1
	Aberystwyth	*	*	45	39	o.c	c.o	0.5
England, S.W.	Weymouth	*	*	48	41	bc.b	b3	4.2
	Torquay	-	-	48	42	b	b	6.6
	Paignton	*	*					
	Penzance	4	-	50	44	0	0	0.0
	Newquay	-	-	48	39	c.b	b	5.0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 5TH DECEMBER.

	STATIONS.	Evening of 4TH: Barom. Millibars at M.S.L.	Evening of 4TH: Temp.	Evening of 4TH: Wind Direc.	Evening of 4TH: Wind Force 0-12.	Evening of 4TH: Weather.	Morning of 5TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1019.0	21	-	0	b									*	
	Yuriev															
	Petrograd	1013.5	10	NW	2	b										
	Vijni Volotchok	1011.1	16	NW	2	m	1023.1	+3	3	-22	SW	2	b	-	?	3
	Gorki	1015.8	23	SW	1	b	1022.0	*	18	-10	SW	1	bc	-	*	18
	Moscow	1013.3	25	S	2	bc	1021.6	+5	18	-10	NW	2	b	-	*	16
	Kiev	1015.4	27	N	2	0	1019.1	+4	23		NNW	3	0	-	*	23
	Kharkov	1014.7	34	NE	1	m									*	
	Kishinev														*	
	Elisabetgrad	1014.0	32	NNE	2	0									*	
	Nicolaiev							*							*	
	Odessa	1014.1	32	NNE	3	0									*	
	Tarkhankout	1011.4	39	NNW	5	r		*							*	
	Soukhoum														*	
Mediterranean.	Venice	1027.4	36	NNW	1	b	1034.1	*	31	-5	-	0	b	-	47	31
	Turin	1031.1	36	-	0	b	10350	*	28	-2	-	0	b	-	41	28
	Pesaro	1026.1	43	NW	6	0	10322	*	37	-2	NW	3	0	-	48	34
	Leghorn	1026.9	41	-	0	b	1031.9	*	34	-12	-	0	b	-	48	34
	Rome	1029.3	41	N	1	b	10297	*	34	-2	N	1	b	-	45	34
	Viesti	1021.7	39	NW	4	0	1026.3	*	39	-6	NW	2	0	2	46	39
	Brindisi	1022.9	?	?	?	?	1022.5	*	41	-7	NW	6	0	8	48	33
	Cagliari	1024.1	50	NW	4	b	1026.1	*	50	+2	NW	3	b	-	57	46
	Palermo	1015.6	45	-	0	0	1025.4	*	45	+2	NW	2	bc	3	54	39
	Tripoli	1028.5	54	NW	1	c	1029.3	*	50	-9	SW	1	c	-	*	46
	Algiers	10307	55	E	2	b	1026.9	0	48	-2	-	0	b	-	57	48
Sweden.	Hernösand							*						*	*	*
	Stockholm						10306	*	18	-1	WSW	2	bc	*	*	*
	Wisby						10307	*	30	0	NNW	4	b	*	*	*

Iceland.	Morning of 5TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
		°F	°F			
Isafjord	992.8	25	-5	W	3	0
Reykjavik	994.6	37	+5	?	2	0
Vestmanna	996.2	37	0	W	1	0
Seydisfjord	990.3	46	+12	S	2	0
Thorshavn	999.8	43	+13	SW	3	m

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

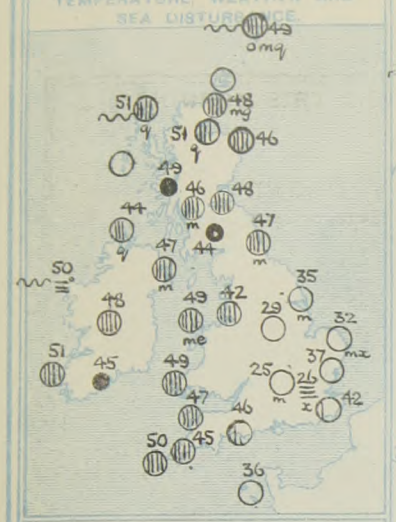
6TH AND 7TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.49	11.44	3.39
	7.51	11.45	3.39
Greenwich	7.51	11.51	3.51
	7.53	11.52	3.51
Wick	8.47	12.3	3.20
	8.49	12.4	3.19
Valencia	8.35	12.32	4.29
	8.37	12.33	4.29

Printed at the Meteorological Office, South Kensington, London. S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

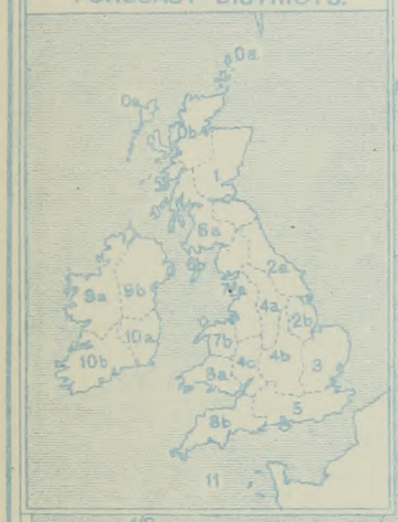
‡ The barometric change is expressed in half-millibars.

THE MORNING OF THURSDAY, 6TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈

LOW

HIGH

29·24in. 29·09in. 29·38in. 29·53in. 29·68in. 29·83in. 29·97in. 30·12in. 30·27in. 30·42in. 30·56in.

985mb. 990mb. 995mb. 1000mb. 1005mb. 1010mb. 1015mb. 1020mb. 1025mb. 1030mb. 1035mb.

Barometer falling

Barometer falling slightly

Barometer scarcely changing

Scale 1 : 2 x 10⁶
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 1½ 3 4 500

Normal Temperature of the Sea.

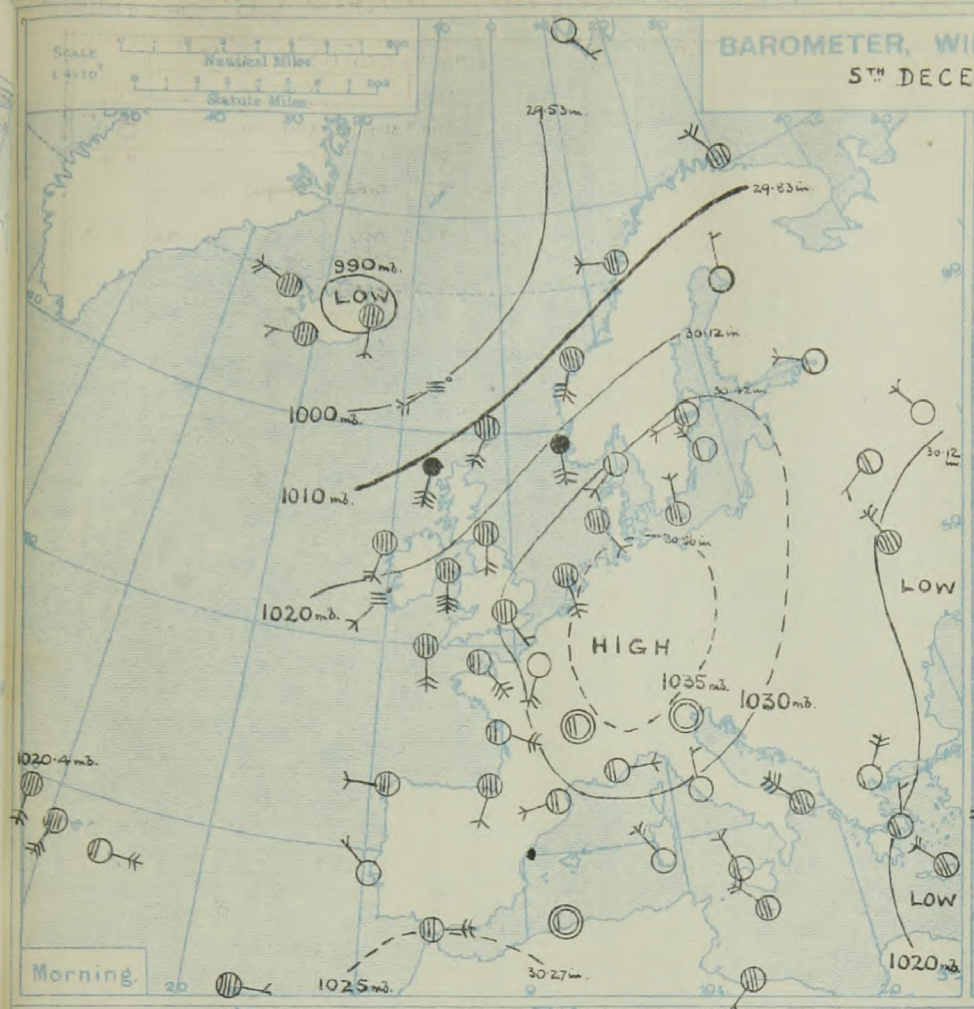
Below 40° | 40°-50° | 50°-60° | Above 60°

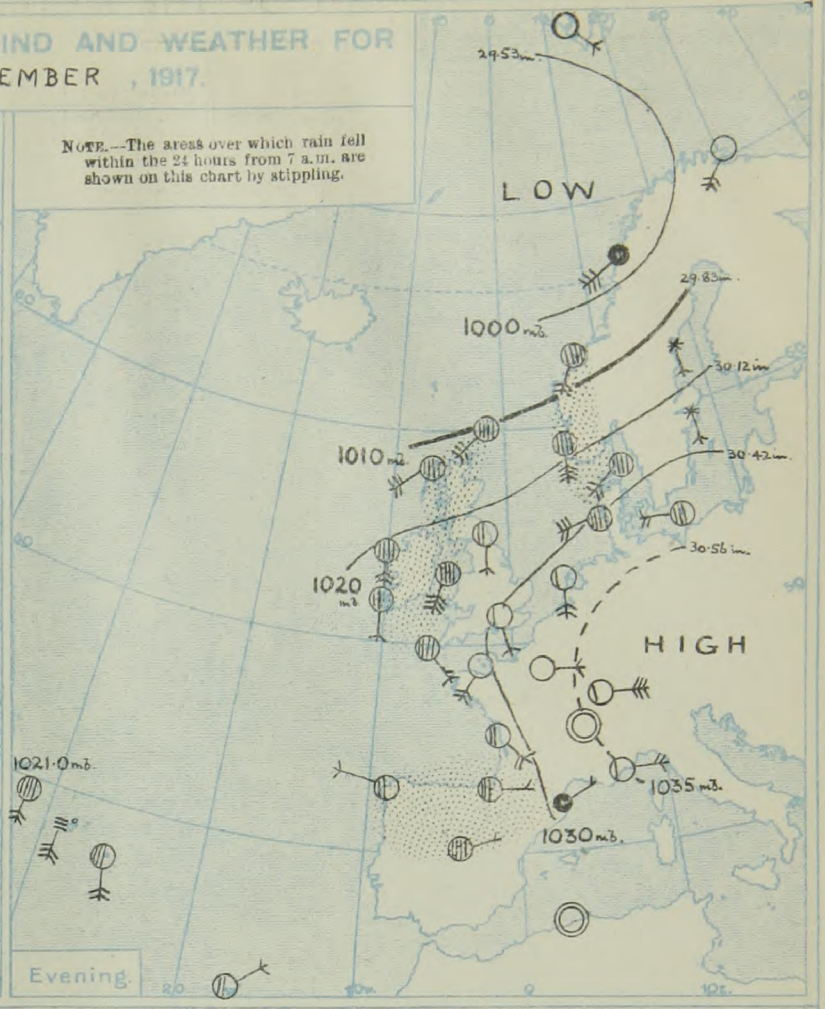
Scale of Tints for DECEMBER.

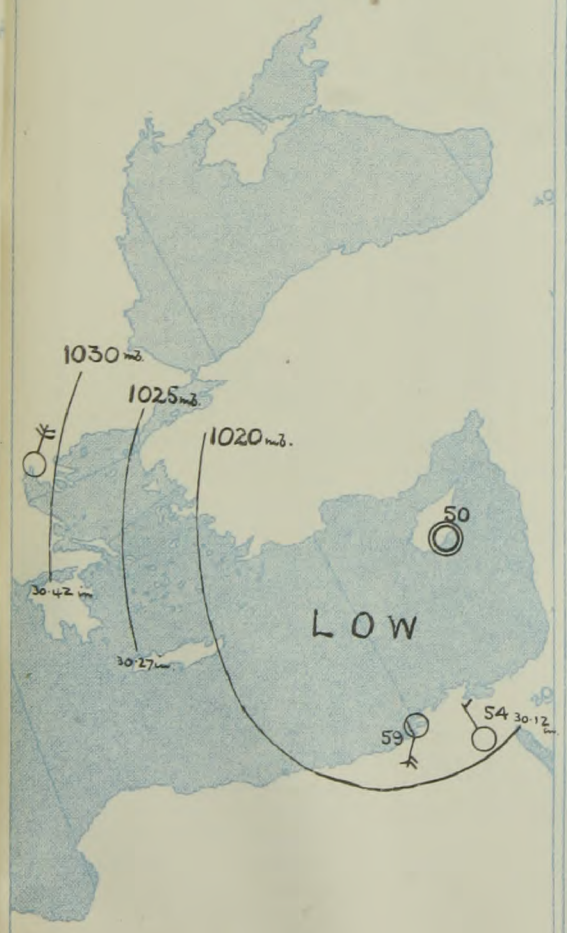
BAROMETER, WIND AND WEATHER FOR 5TH DECEMBER, 1917.

Scale 1:40·10⁶
Nautical Miles
Statute Miles

NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.







The Present Situation

A large depression is centred off the North-West of Norway, apparently moving eastward, while an anticyclone covers France and the surrounding regions A rather decided decrease of pressure is in progress in Scandinavia and a slight decrease in the West and North of the British Isles, as well as in Holland. Over England and France generally the barometer is stationary. Along the coast of Norway the wind is strong to a gale from the South-Westward, and at some outlying points on our own North-Western and Northern coasts there is a strong breeze from South or South West. Over our South and South-Eastern districts, and the nearer regions of the Continent, however, the S. to SW. wind has little strength, while the weather is fair to bright, and the temperature low for so early in the winter.

The General Outlook

T[illegible]re are no definite indications of any change of i[illegible]portance in the general situation. It seems probable that the anticyclone will maintain its position with some modification in form and intensity, while the Northern and Western parts of the United Kingdom become more under the influence of Atlantic cyclonic disturbances.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 340. { THURSDAY 6TH DECEMBER

	STATIONS.	Evening of 5th: Barom. Millibars at M.S.L.	Temp. °F.	Wind: Direc.	Wind: Force 0-12.	Weather.	Morning of 6th: Barometer: Millibars at M.S.L.	Barometer: Change in 3 hours.	Temp.: Dry Bulb. °F.	Temp.: Change in 24 hours. °F.	Wind: Direc.	Wind: Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 a.m. 6th: Rainfall. Millimetres.	Temp.: Max. °F.	Temp.: Min. °F.	Weather: Morning.	Weather: Afternoon.	Weather: Night.	Sunshine for 5th: Hours.
BRITISH ISLANDS.	Lerwick ...	1010·6	46	SW	5	omq	1004·1	-1	49		WSW	6	-	omq	5	6	49	42	om	omq	od.mq	*
	Deerness (Orkney)							*														
	Stornoway ...	1013·2	47	SW	5	0	1009·6	-1	51	+3	SW	6	-	oq	5	1	51	46	qpr	0	o.c.qpq	0·2
	Castlebay (Barra Isd.)	1017·5	49	SW	4	0													od	od.bp		
	Glasgow ...	1020·6	47	SW	3	c	1018·9	-2	46	+6	SW	3	-	om	*	0·2	47	40	omgdp	omd.qr	cm.om	2·0
	Eskdalemuir ...	1022·8	40	SSW	5	odm	1021·1	0	44		SSW	4	-	odm	*	6	45	33	om.odm	od.m	od.om	0·0
	Malin Head ...	1020·1	47	SSW	3	c	1017·2	-2	44	-3	SSW	6	S	cq	3	-	49	42	bc	cg	cg	0·5
	Blacksod Point	1020·6	48	S	4	omg	1018·0	-4	50	+3	S	5	-	of	5	1	50	47	cg	og	of.c.of	*
	Valencia (Cahirciveen)	1024·0	47	S	2	0	1023·5	-1	51	+3	S	4	-	r	4	2	52	46	omd.c.o	o.c.o	od.o	0·2
	Roche's Point	1025·8	47	-	0	0	1026·1	*	45	-2	SW	1	-	r	3	1	49	45	fe.o	o.f.o	omd	*
	Birr Castle ...	1023·7	48	S	1	0	1022·9	*	48	0	S	1	-	o	*	-	50	45	c	c.o	o	0·2
	Donaghadee ...	1021·8	47	WSW	3	omp	1020·5	0	47	+1	W	3	-	om	2	0·2	49	45	omp	omp	om	0·2
	Liverpool (Bidston)	1026·6	41	SE	2	0	1025·3	0	42	+6	SE	2	S	o	2	0·2	45	36	og	og	bc	0·0
	Holyhead ...	1024·8	46	SSW	6	opdqm	1024·7	0	49	+4	SW	5	-	oem	0	2	44	?	og	op o	op.d.om	0·0
	Pembroke (St. Ann's)	1027·3	48	SSE	2	0	1027·7	+1	49	+4	SSW	3	-	o	3	0·1	48	45	o	o	o.qv	0·0
	Hartland Quay	1028·3	43	SE	3	b	1028·6	0	47	+4	SSW	2	-	o	2	-	47	40	oq.e.oq	oq.b	b.o	*
	Scilly (St. Mary's)	1026·9	49	SE	3	0	1029·1	+1	50	+1	SW	3	-	o	4	0·1	50	49	omd	om	o	0·0
	Falmouth ...	1027·8	44	SE	1	bcj	1029·3	+1	45	0	SE	1	-	o	*	-	50	46	oq.c.bc	od.c.bj	b.bc.o	2·7
	Jersey (St. Aubin)	1028·7	41	SE	4	b	1030·1	*	36	-5	S	1	-	b	2	-	42	35	c.b	b	bwx	5·8
	Portland Bill ...	1028·0	45	ESE	3	b	1028·6	0	46	+2	SW	2	-	bc	3	-	46	44	bc.b	b	b.bc	*
	Dungeness ...	1030·9	38	S	5	b	1029·0	0	42	+2	SW	4	SW	b	4	-	41	37	bc	bc.b	b.c.bc	*
	Dover	*	*	*	*	*											*					
	Wick	1014·2	45	S	2	bcm	1009·2	-2	48	+4	SW	4	-	o	3	0·4	49	44	ocmp	qp.bcm	bc.omq	*
	Nairn	1015·5	46	WSW	1	cg	1011·5	*	51	+8	WSW	3	-	cq	2	-	51	40	c.bc	bc.c	cq	2·8
	Aberdeen ...	1018·5	43	S	3	0	1013·8	-1	46	+7	SSW	3	-	o	2	1	47	38	qp.cj	c.oj	o.bc.or	0·3
	Leith	1019·3	46	SW	1	0	1017·7	-1	48	+7	SW	2	-	o	2	1	49	41	o.c.o	od.m.o	od.ego	*
	Tynemouth ...	1023·9	41	S	2	cm	1020·7	-2	47	+9	SW	2	-	om	3	-	47	37	om	om	om	*
	Spurn Head ...	1027·9	37	S	4	b	1025·6	-1	35	-1	SW	3	-	bm	4	-	40	34	cq	bcq	b	0·0
	Yarmouth (Gorleston)	1030·3	34	SSW	3	b	1027·6	-1	32		WSW	3	-	bmx	3	-	40	31	b	b	bm	4·5
	Clacton on Sea	1031·0	40	SSE	4	b	1029·2	-1	37	-2	SW	3	-	b	3	-	40	36	bc.d	b	bx	3·3
	Nottingham ...	1029·0	36	SSW	2	b	1027·0	*	29	-6	SW	1	-	bx	*	-	42	29	bc	bc.b	b	5·0
	Benson (Oxon.) ...	1029·6	31	SSE	2	b	1028·5	0	25	-9	-	0	-	bm	*	-	42	?22	bcm	b	bmx	*
	Sth Farnborough	1030·3	31	SE	2	bm	1030·1	0	23	-14	SE	1	-	bmx	*	-	42	21	cm.bj	bj.bm	bmx	5·5
	Salisbury Plain						1029·2	-2	28	-4	SSE	2	-	b	*	-	42	25			bm	*
	London (Kew Obsy.)	1030·5	35	-	0	bmx	1029·6	0	26	-12	SSE	1	-	bfx	*	-	41	24	om.b	b.bm.bx	bmx.bj	4·8
NORTHERN EUROPE.	Spitsbergen ...	1002·6	-12	SE	2	b	989·9	-5	-4	+13	NE	7	*	o	*	*	?	-24				
	Vardö	1004·8	19	SW	4	b	986·3	-5	28	+7	S	8	-	o	4	*	?	23				
	Bodö	995·8	43	SW	6	r	982·7	-5	43	+9	SSW	8	-	o	5	*	43	32				
	Christiansund ...	1007·1	45	SW	4	0	997·0	0	46	+9	SW	7	-	o	5	3	?	37				
	Skudesnaes ...	1019·2	45	S	6	0	1012·6	-3	46	?	SSW	4	-	r	4	5	45	39				
	Færder (X'tania Fjord)	1020·4	43	SW	6	o	1012·6	-5	45	+12	SW	7	-	o	4	3	45	32				
	The Scaw (Skagen)	1025·0	37	SW	4	0	1019·1	-5	39	+7	SW	4	-	o	4	1	39	32				
	Blaavands Huk	1030·4	41	WSW	5	0	1024·4	+2	43	+4	WSW	4		o	*	Trace	45	36				
	Copenhagen ...	1032·4	36	SW	2	m	1025·9	-4	34	+7	SW	3	-	j	*	-	36	27				
	Bornholm ...	1032·3	34	W	3	c	1026·3	-3	34	+6	WSW	7	W	bc	1	-	36	27				
FRANCE, &c.	The Helder ...	1033·1	27	S	4	b	1028·4	-2	23	-7	S	3	-	b	1	-	32	23				
	C. Gris Nez ...	1031·9	32	SE	1	b	1028·2	-1	32	+1	S	3	*	bc	2	-	37	32				
	La Hêve	1028·0	34	SE	4	o	1029·6	*	34	0	SSE	2	*	b	2	-	41	34				
	Brest (St. Mathieu)	1028·0	44	ESE	3	b	1030·6	+1	42	0	ESE	3	*	b	3	-	46	39				
	Rochefort (Ile d'Aix)	1027·5	41	SE	3	bc	1031·9	+3	37	+3	SE	3	*	b	*	2	45	37				
	Biarritz	1026·0	50	E	1	c	1029·6	+2	43	-5	E	3	*	c	1	-	55	41				
	Paris	1032·0	30	E	2	b	1033·2	+1	25	-2	SSE	2		b	*	-	37	23				
	Belfort	1037·2	21	E	6	b	1039·1	*	18		WSW	2	*	c	*	-	28	16				
	Lyons	1034·0	30	-	0	b	1037·6	*	27	+2	SW	1	*	b	*	-	37	25				
	Nice	1035·0	37	E	3	b	1038·6	0	33	-5	-	0	*	b	4	-	43	28				
	Perpignan ...	1031·4	47	NE	1	r	1034·2	+2	45	+15	S	1	SE	o	*	4	50	30				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1025·6	55	WNW	2	bc	1029·5	+3	46	-8	SE	3	-	j	1	4	59	46				
	Madrid	1025·0	45	ENE	1	o	1029·6	+2	41		NNE	2	-	o	*	5	46	39				
	Lisbon																					
	Azores (Horta) ...	1028·9	*	SSE	5	o	1027·1	+3	59	-4	W	4	*	r	3	-	68	61				
	Madeira	1024·0	63	NE	2	bc	1024·7	+3	61	-2	NE	2	-	bc	2	-	68	57				
	Gibraltar							*														
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1016·3	0	50	-13	-	0		b	0	-	70	48				
	Alexandria ...	1018·7	63	NNE	3	bc	1018·0	0	59	-2	SW	3		b	3	2	68	54				
	Cairo (Helwan) ...	1018·2	61	N	2	b	1018·7	+1	54	-3	N	1		b	*	-	70	48				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 6TH DEC. 9h. G.M.T.

	Humidity. 15 h. 5th	Humidity. 9 h. 6th	Sunshine for 5th: Hours.	24 hours ended 9 h. 6th: Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	% 63	% 71	4·0	42	26	17	-	o.c bc	bc	b
CITY (Bunhill Row)	*	*	2·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	63	?	3·4	43	25	24	-	b	m	m
CAMDEN SQ. (British Rainfall) ...	63	84	0·0	41	25	24	-	bc	bc.o	*
S. KENSINGTON (Museum Grounds)	*	82	3·4	42	29	-	-	bm	bm	bj.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ... 5th

Total.	Average Rate.	Max. Rate.
Joules. 240	Milliwatts. 8·2	Milliwatts. 18

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,469. FRIDAY, 7TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4)

Temperature rose quickly in the South Midland and South-Eastern counties during the afternoon and evening under the influence of a gentle to moderate breeze from the South-westward, and the maximum readings over the Kingdom generally were about 50°. Rain fell at several places in the West and North, but not in large amounts. The duration of bright sunshine was slight except in the South-East and East.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 6TH DECEMBER

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine for 6th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	55	36	c.o	o.c	0.0
	Montrose	-	-	51	48	o	o	0.0
	St. Andrews							
Eng. N.E.	Harrogate	-	-	47	38	o	o.c	0.0
	Skegness	-	-	40	30	b	bc	38
England, E.	Felixstowe	-	-	41	33	bcm	bcm	4.4
	Southend-on-Sea	-	-	47	31	b	b	6.1
England, S.E.	Margate	-	-	41	33	b	b. bc	1.3
	Hastings	-	-	47	37	bc. b	b	5.5
	Eastbourne	-	-	48	30	b	b	5.9
	Seaford	*	*					
	Worthing	-	-	47	29	b	b. bc. c	5.6
	Littlehampton							
	Bournemouth	-	-	49	25	b	b.o	4.2
Scld'd W.	Oban	3	4	51	46	Y	o	0.0
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	50	40	o.c.bc.o	o	0.0
Midlands.	Malvern							
	Ross-on-Wye	-	-	48	25	m. bc	bc. c	2.2
Wales.	Rhyl	-	-	52	41	o	c.o	0.3
	Colwyn Bay	-	-	51	44	bc	bc	0.6
	Llandudno	*	*	52	43	c	c	0.4
	Aberystwyth	*	*	49	41	o.c	c.o	0.0
England, S.W.	Weymouth	*	*					
	Torquay	-	-	48	31	bm.o	o	1.0
	Paignton	*	*					
	Penzance	Trace	-	53	46	o.c	o	0.0
	Newquay	-	-	50	35	o	o	0.0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 6TH DECEMBER

	STATIONS.	Evening of 5th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 6th: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1026.0	34	WSW	2	bc									*	
	Yuriev															
	Petrograd															
	Vijni Volotchok	1031.1	10	NE	1	c										
	Gorki							*							*	
	Moscow	1026.0	?	N	2	c									*	
	Kiev	1025.6	21	N	4	S	1029.6	+3	14	-9	NW	4	b	-	*	19
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1038.2	34	N	1	b	1038.6	*	25	-6	-	0	b	-	41	25
	Turin	1039.7	36	-	0	b	1039.0	*	27	-1	-	0	c	-	41	25
	Pesaro							*								
	Leghorn	1037.9	36	-	0	b	1037.9	*	34	0	-	0	b	-	41	34
	Rome	1035.3	36	NE	2	b	1037.4	*	32	-2	NE	1	b	-	43	30
	Viesti	1032.7	36	NW	4	0	1035.3	*	37	-2	NE	3	c	-	41	34
	Brindisi	1028.7	41	NW	4	0	1030.3	*	39	-2	N	4	0	-	43	33
	Cagliari	1025.4	50	NNE	5	0	1032.6	*	46	-4	N	3	b	-	59	41
	Palermo	10194	45	NNE	4	0	1033.3	*	45	0	NNE	4	0	-	55	45
	Tripoli	1029.1	52	NE	2	c	1031.5	*	52	+2	NE	2	c	Trace	*	50
	Algiers															
Sweden.	Hernösand	1013.8	25	S	2	S	10034	*	34		S	4	c	*	*	*
	Stockholm	1025.1	25	S	2	S	1014.4	*	36	+18	SW	4	0	*	*	*
	Wisby	1030.2	32	W	2	c	1019.9	*	37	+7	WSW	6	0	*	*	*

Morning of 6th

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	10034	14	-11	N	7	c
Reykjavik	9928	28	-9	E	4	o
Vestmanna	9914	34	-3	E	5	Y
Seydisfjord	10012	12	-34	N	6	S
Thorshavn	9930	47	+4	W	5	Y

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

7TH AND 8TH DEC 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.51 / 7.52	11.45 / 11.45	3.39 / 3.38
Greenwich	7.53 / 7.54	11.52 / 11.52	3.51 / 3.50
Wick	8.49 / 8.50	12.4 / 12.4	3.19 / 3.18
Valencia	8.37 / 8.38	12.33 / 12.33	4.29 / 4.28

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 7TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines

WEATHER.—Shown by the following symbols :—
○ clear sky. ◑ sky ¼ clouded. ◐ sky ½ clouded. ◍ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. =° mist. ⊤ thunder. ⊼ thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ~~~.

LOW

985 mb.
990 mb.
995 mb.
1000 mb.
1005 mb.
1010 mb.
1015 mb.
1020 mb.
1025 mb.
1030 mb.

Bar. falling slightly

Barometer slightly changing and irregularly

HIGH

29.09 in.
29.26 in.
29.38 in.
29.53 in.
29.68 in.
29.82 in.
29.97 in.
30.12 in.
30.27 in.
30.42 in.

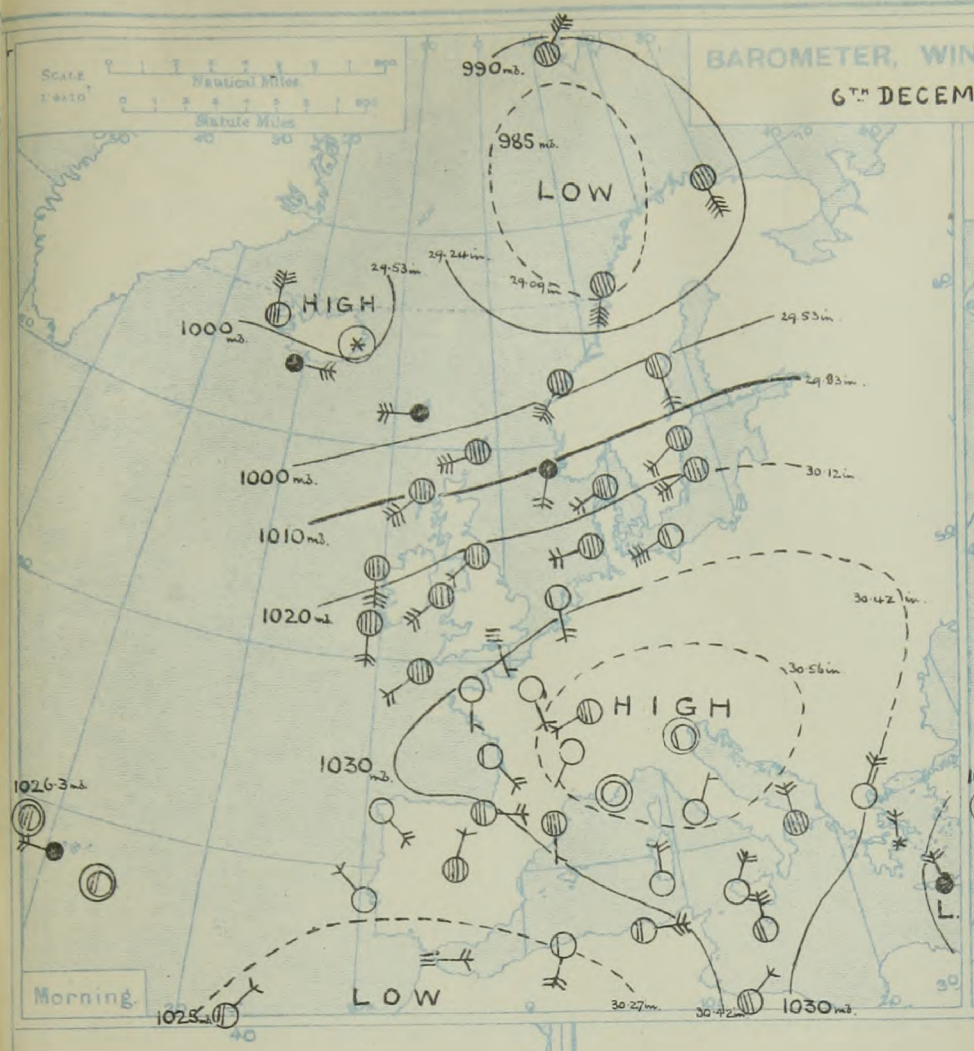
1030 7 in.

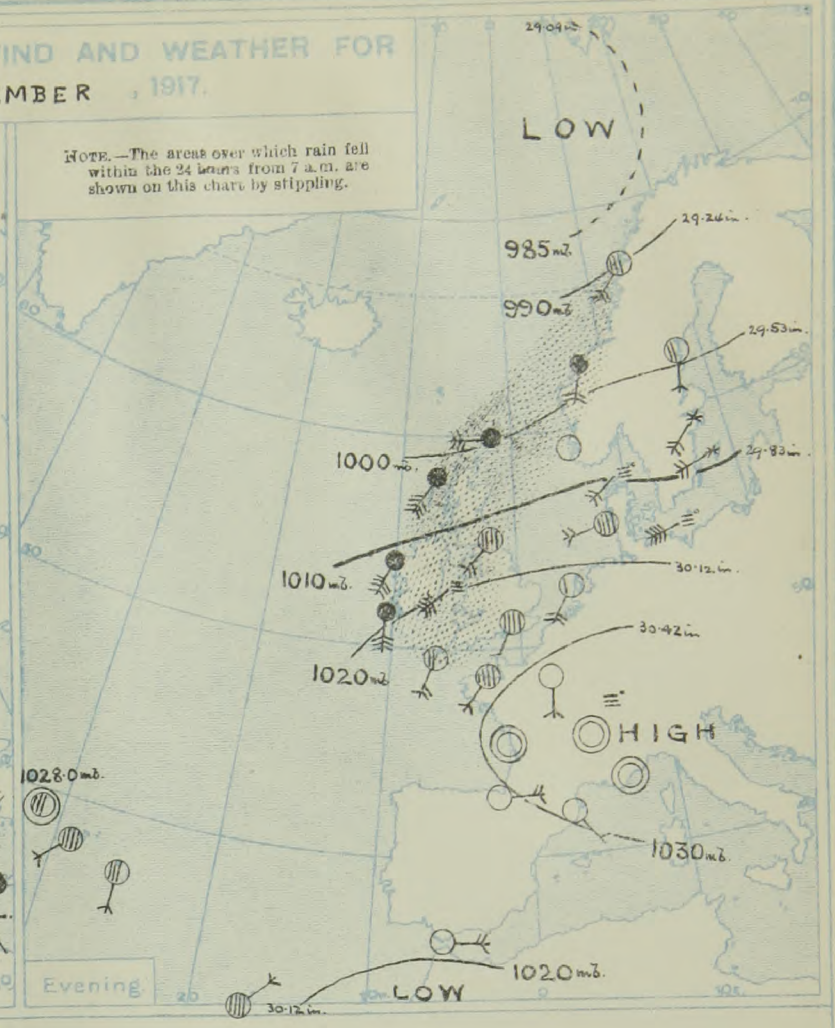
SCALE 1 : 2 X 10⁶
Nautical Miles
Statute Miles

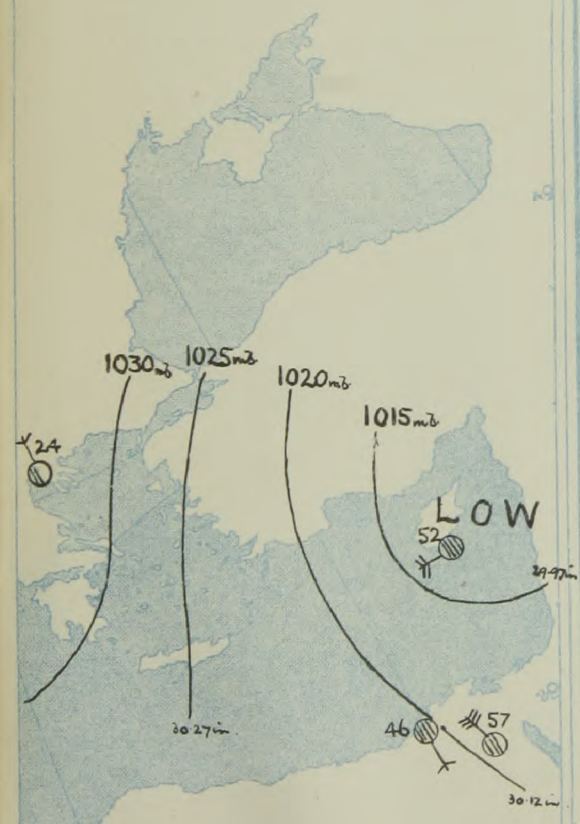
Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 6TH DECEMBER, 1917.

NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.







The Present Situation

The anticyclone has receded somewhat and its central area is now over Switzerland and the East of France. The British Isles in the meantime have become more under the influence of the large depression in the far north, and across the whole Kingdom a moderate to fresh breeze from the South-Westward is now blowing, bringing a high temperature for the time of year, rather humid air, and a good deal of cloud. Rain is, however, falling in the South-West of England only.

The General Outlook

The large depression which appears to be centred over the Icelandic region, and secondary systems from the westward, will probably maintain a South-Westerly to Westerly type of conditions over the United Kingdom for the present.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 341 { FRIDAY 7TH DECEMBER.

	STATIONS.	EVENING OF 6TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 7TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 7TH: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 6TH.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	9996	48	W	5	orq	995·6	-1	48	-1	W	5	-	oq	4	13	49	46	omq	orq	orq.em	*
	Deerness (Orkney)							*														
	Stornoway ...	10035	51	SSW	7	odq	998·8	-3	47	-4	SW	7	-	bcq	5	6	52	47	op.orq	odq	bcpq	0·0
	Castlebay (Barra Isd.)	1009·1	51	WSW	5	o	1004·9	-1	48		W	4	-	o	5	1	51	46	dpr	r.o	od.c.o	0·0
	Glasgow ...	1012·1	50	SW	5	omgq	1008·4	-3	47	+1	SW	4	w	bc	*	2	50	46	omg	omg	oqr.oc	0·0
	Eskdalemuir ...	1014·8	47	SW	8	om	1009·9	-1	46	+2	WSW	6	-	bc	*	8	49	43	od.m	od.m	om.or.c	0·0
	Malin Head ...	1010·7	48	SW	6	omd	1007·6	-2	48	+4	SW	6	w	bc	6	5	52	44	cq	omd	omd	0·0
	Blacksod Point	1012·3	51	SSW	7	om	1013·1	0	48	-2	SW	5	sw	cg	5	7	52	47	omfr	omr	og.em	*
	Valencia (Cahirciveen)	1018·8	54	S	6	r	1018·9	0	50	-1	WSW	3	w	bc	0	7	55	49	o.t	c.o.r	r.c	0·2
	Roche's Point	1022·1	50	SSW	4	f	1019·3	*	44	-1	W	1	-	b	4	4	51	44	o.f.d	o.fe	fr.o.b	*
	Birr Castle ...	1018·4	52	SSW	1	o	1016·4	*	49	+1	SW	2	-	o	*	2	53	47	om	m.o	o.r.o	0·0
	Donaghadee ...	1015·1	51	SW	4	ogrw	1012·0	0	47	0	SW	3	sw	bc	3	1	51	46	ogrw	ogrw	omp.bc	*
	Liverpool (Bidston)	1021·0	49	SSW	3	bc	1016·1	+1	50	+8	SW	3	w	o	3	1	53	42	c	o	o.r	1·1
	Holyhead ...	1019·9	50	SW	7	ofcq	1015·8	0	49	0	WSW	4	-	b	0	3	51	48	oeqrw	ofeq	b	0·0
	Pembroke (St. Ann's)	1023·9	50	SW	4	o	1019·1	+1	50	+1	SW	3	-	o	4	2	51	48	opd.c	c.o.opd	opd.or	0·3
	Hartland Quay	1025·5	50	SSW	5	o	1020·7	-3	50	+3	SSW	3	-	orfq	4	3	51	47	o	o	o.omdf	*
	Scilly (St. Mary's)	1026·9	50	SSW	3	bc	1022·1	-2	51	+1	WSW	5		o	5	1	52	48	o.c	c.bc	c.omdr	0·2
	Falmouth ...	1027·3	47	SSW	1	b	1022·0	0	50	+5	SW	6	-	odq	*	2	50	45	o	o.bc	b.bcdq	0·0
	Jersey (St. Aubin)	1029·7	48	SW	2	o	1026·5	*	49	+13	SW	3	-	oe	3	-	50	33	bc.o	o	o.b.oe	1·3
	Portland Bill ...	1026·9	50	W	3	c	1022·5	-2	51	+5	WSW	5	-	o	-	4	51	46	bc.c	bc.c	c.o	*
	Dungeness ...	1026·9	46	SW	4	b	1022·5	-2	49	+7	SW	5	sw	c	4	-	49	32	bc	bc	bc.op.e	*
	Dover	*	*	*	*	*											*		*	*		
	Wick	1003·9	51	WSW	3	o	1000·2	-4	47	-1	W	3	-	omq	3	1	52	45	omq	omq	omrq	*
	Nairn	1005·6	53	WSW	5	oqu	1000·8	*	47	-4	WSW	3	-	bcq	2	0·1	53	46	c.bcq.c	cq.o	odq.oq.c	0·2
	Aberdeen ...	1008·5	50	SSW	4	o	1003·9	-1	45	-1	SSW	2	-	b	2	-	52	44	oq.o	oq.c	o.c.b	0·0
	Leith	1011·0	52	SW	4	c	1006·7	-1	49	+1	W	4	w	b	3	1	53	48	oq.c.ou	o	oeq.op.b	*
	Tynemouth ...	1015·9	50	SW	3	o	1010·6	0	51	+4	HW	1	-	bcm	3	-	53	47	om	om	omq.em	*
	Spurn Head ...	1021·7	43	SW	2	bcm	1014·7	-1	47	+12	SW	4	-	cq	3	-	43	35	bcm	bcm	eq	0·0
	Yarmouth (Gorleston)	1023·5	38	WSW	3	o	1016·8	-4	45	+13	SW	5	-	oqm	3	-	45	30	bm	bm.om	bcm.oq	6·0
	Clacton-on-Sea	1025·8	42	SW	3	bc	1020·8	-2	45	+8	W	3	-	c	2	-	45	35	b.bcm	bcm.j	b.bce.c	2·3
	Nottingham ...	1022·6	41	SW	2	o	1016·9	*	49	+20	SW	4	SW	o	*	Trace	49	28	cm	o.cm	od	0·0
	Benson (Oxon.) ...	1025·6	40	SW	2	b	1020·0	-2	49	+24	SW	4	-	o	*	-	49	25	bc	b	o	*
	Sth Farnborough	1026·7	45	SW	2	o	1021·7	-2	50	+27	SW	5	-	om	*	Trace	50	22	bcm.bcq	bcq.o	om	6·0
	Salisbury Plain	1026·7	45	SW	4	o	1021·6	-4	48	+20	SW	4	-	o	*	-	48	26	o	o	oq	*
	London (Kew Obsy.)	1026·3	41	SW	2	om	1021·6	-2	48	+22	SW	4	-	o	*	-	49	25	bfx.bm	bm.om	om.em.o	
NORTHERN EUROPE.	Spitsbergen ...	985·6	4	E	4	b	983·9	+1	1	+5	NE	4	*	c	*	*	4	-9				
	Vardö †	974·3	36	S	8	bc	983·8	+5	30	+2	W	4	-	c	5	*	36	18				
	Bodö	990·0	45	SW	4	c	991·6	0	34	-9	SW	1	-	c	2	5	45	32				
	Christiansund ...	996·2	46	SSW	4	r	994·4	+1	45	+2	SSW	4	-	r	4	22	46	43				
	Skudesnaes ..	1005·9	48	NW	4	o	1001·6	-1	46	0	W	1	-	o	5	8	48	46				
	Færder (X'iania Fjord)	1004·3	45	SW	6	m	998·8	0	46		SW	6	-	o	3	-	46	?				
	The Scaw (Skagen)	1009·0	45	SW	4	m	1004·4	+1	46	+7	WSW	4	-	m	4	-	46	37				
	Blaavands Huk	1017·4	45	WSW	3	o	1011·9	-2	45	+2	WSW	3	-	o	*	-	46	41				
	Copenhagen ...	1017·0	36	WSW	4	m	1011·5	0	41	+7	WSW	4	-	f	*	-	41	34				
	Bornholm ...	1017·4	36	WSW	8	m	1010·7	+1	39	+5	W	8	-	t	2	2	39	32				
FRANCE, &c.	The Helder ...	1023·4	43	SW	4	b	1018·4	-1	46	+23	SSW	5	-	o	2	-	46	23				
	C. Gris Nez ...	1027·0	46	SW	4	b	1023·6	-2	49	+17	SW	5	*	o	4	-	49	?				
	La Hève	1028·4	41	SW	4	o	1025·4	*	45	+12	SSW	5	*	o	3	-	43	41				
	Brest (St. Mathieu)	1030·0	50	SSE	3	o	1027·0	-1	51	+9	SSW	4	*	c	3	-	48	42				
	Rochefort (Ile d'Aix)	1031·6	43	-	0	b	1030·7	0	37	0	WSW	3	*	b	*	-	48	36				
	Biarritz	1029·8	49	E	3	b	1027·9	+1	37	-6	SE	3	*	b	2	-	57	36				
	Paris	1031·4	36	SSW	2	b	1029·5	+1	34	+9	S	2	-	b	*	-	45	23				
	Belfort	1035·9	28	-	0	m	1033·4	*	25	+7	W	1	*	c	*	-	36	25				
	Lyons	1035·2	34	-	0	b	1034·6	*	25	-2	-	0	*	b	*	-	?	23				
	Nice	1035·6	34	-	0	b	1034·0	+1	33	0	E	1	*	b	3	-	43	30				
	Perpignan ..	1033·4	43	SE	1	b	1032·3	0	34	-11	W	1	-	b	*	-	52	41				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1030·2	*	-	0	bc	1030·7	+1	59	0	-	0	*	c	2	3	69	?				
	Madeira	1023·2	63	NE	2	o	1024·4	0	59	-2	NE	3		o	3	?	68	57				
	Gibraltar	1021·0	52	E	3	b	1020·0	*	45		E	4	*	o	4	-	63	47				
	Malta	*	*	*	*	*	1031·0	+1	48		E	1	-	c	2	-	48	43				
	Limassol	*	*	*	*	*	1013·4	+3	52	+2	W	4	-	o	3	22	68	48				
	Alexandria ...	1018·0	57	-	0	b	1020·3	0	46	-13	S	2	SW	o	0	-	70	?				
	Cairo (Helwan) ...	1016·2	59	NW	6	o	1019·8	+1	57	+3	NNW	6	N	c	*	2	66	52				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air, humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 7TH DEC. ... 9h. G.M.T.	Humidity. 15 h. 6TH	Humidity. 9 h. 7TH	Sunshine for 6TH.	24 Hours ended 9 h. 7TH: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	77	87	5·8	51	31	31		bc	bc.b	bc.o
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	81	89		52	28	26	Trace	b	b.m	md.m
CAMDEN SQ. (British Rainfall) ..	82	89	1·7	51	33	28	-	m	b	*
S. KENSINGTON (Museum Grounds)	*	86	4·2	51	29	-	-	bm	bcm	o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 6TH.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
200	6·8	13·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,470. SATURDAY, 8TH DECEMBER. 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature again exceeded 50° over the greater part of the Kingdom and did not fall to a low minimum at night. Rain was experienced in nearly all localities, the amount being moderate or slight generally. Bright sunshine was more general in the East of Scotland and in Wales than elsewhere. Over a very large portion of the country the day was sunless.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 7TH DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 7TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	50	44	b	b	5·3
	Montrose	-	-	50	45	b	b	0·0
	St. Andrews	-	-	48	44	c	c	1·0
Eng. N.E.	Harrogate	1	-	50	46	c-bc	o.c.bc	1·0
	Skegness	-	-	51	33	0	b	0·6
England, E.	Felixstowe	-	-	50	34	om	om.bcm	0·0
	Southend-on-Sea	-	Trace	51	37	0	od r	0·0
England, S.E.	Margate	-	1	51	37	0	od	0·0
	Hastings	1	1	50	47	or.0	om	0·0
	Eastbourne	Trace	1	51	49	0g	od.r	0·0
	Seaford	*	*					
	Worthing	-	Trace	50	44	0	od	0·0
	Littlehampton							
	Bournemouth	Trace	Trace	51	46	or	or	0·0
Scotland W.	Oban	5	2	50	46	c	op	0·0
Eng. N.W.	Morecambe	2	-	48	45	*	*	0·0
	Southport	2	Trace	49	46	b.bc.c.0	c.or.c.bc	1·8
Midlands.	Malvern	-	-	53	44	om	c.bc.b	1·6
	Ross-on-Wye							
Wales.	Rhyl	Trace	-	53	47	cp	c.bc	2·0
	Colwyn Bay	Trace	Trace	53	49	bc	bf	2·6
	Llandudno	*	*	54	48	c	c	1·8
	Aberystwyth	*	*	49	46	r.0.c	bc-0	3·0
England, S.W.	Weymouth	*	*	52	36	d.0	o.c	0·0
	Torquay	Trace	Trace	53	37	od	o.c.b	0·0
	Paignton	*	*					
	Penzance	3	-	54	50	0.c	c.bc	1·5
	Newquay	1	Trace	52	44	od	c.b	1·9
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 7TH DECEMBER

	STATIONS.	Evening of 6TH: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 7TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1005·2	39	WSW	5	r									*	
	Yuriev	1026·3	41	SW	4	r										
	Petrograd	985·6	754	SE	6	0										
	Vijni Volotchok	1024·3	-2	-	0	b										
	Gorki							*							*	
	Moscow														*	
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1035·5	30	-	0	bc	1033·3	*	27	+2	-	0	bc	-	32	25
	Turin	1034·5	30	-	0	b	1033·5	*	25	-2	-	0	b	-	36	25
	Pesaro	1035·3	34	-	0	0	1033·5	*	28		-	0	b	-	41	27
	Leghorn	1034·5	39	-	0	bc	1033·5	*	37	+3	-	0	c	-	41	34
	Rome	1035·8	40	-	0	b	1034·3	*	28	-4	N	1	b	-	43	28
	Viesti	1035·1	41	N	4	c	1031·9	*	43	+6	W	2	c	-	41	37
	Brindisi	1033·1	41	NE	7	c	1031·9	*	41	+2	NW	2	bc	-	41	37
	Cagliari							*								
	Palermo	1033·5	43	NNE	3	0	1032·9	*	41	-4	-	0	bc	-	46	34
	Tripoli							*								
	Algiers	1025·0	52	SSW	3	c	10264	+1	50		SSW	4	0	-	59	48
Sweden.	Hernösand	9972	37	S	2	bc	9924	*	54	+20	-	0	f	*	*	*
	Stockholm	1003·6	37	SW	4	S	9974	*	46	+10	SW	4	0	*	*	*
	Wisby	1009·6	37	WSW	4	S	1002·8	*	43	+6	SW	4	0	*	*	*

Morning of 7TH

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	1002·2	16	+2	NE	7	0
Reykjavik	999·3	25	-3	N	5	0
Vestmanna	991·9	27	-7	N	2	0
Seydisfjord	994·6	21	+9	NE	6	S
Thorshavn	981·5	44	-3	SW	5	r

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

8TH AND 9TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7·52	11·45	3·38
	7·53	11·45	3·38
Greenwich	7·54	11·52	3·50
	7·55	11·52	3·50
Wick	8·50	12·4	3·18
	8·52	12·4	3·17
Valencia	8·38	12·33	4·28
	8·39	12·33	4·28

Printed at the Meteorological Office, South Kensington, London, S.W. 7.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 8TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊤, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ~~~.

LOW

Barometer falling slowly

Barometer falling scarcely changing

HIGH

1025mb.

1030mb.

30.42in.

30.27in.

HIGH

1025mb.

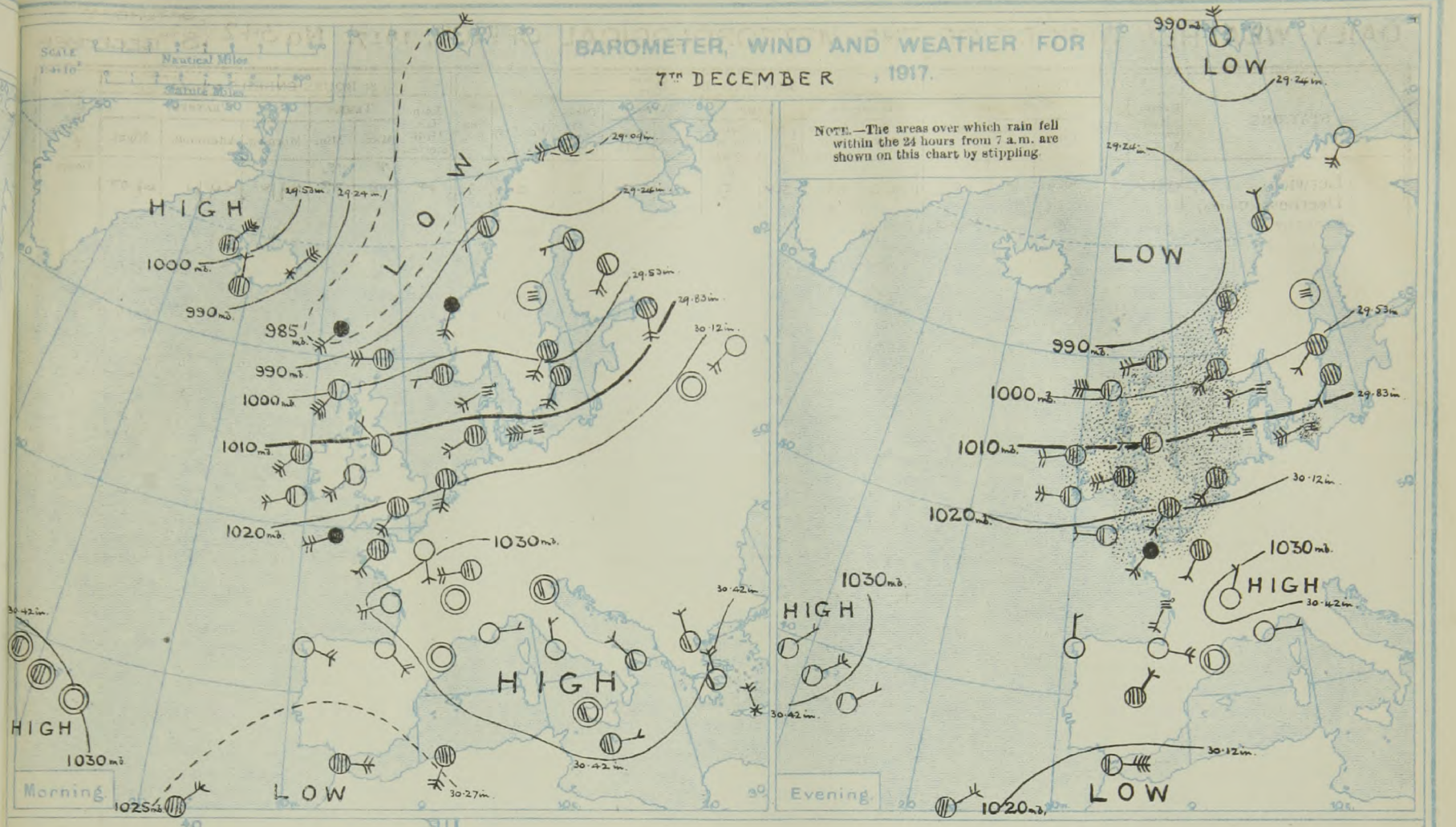
1020mb.

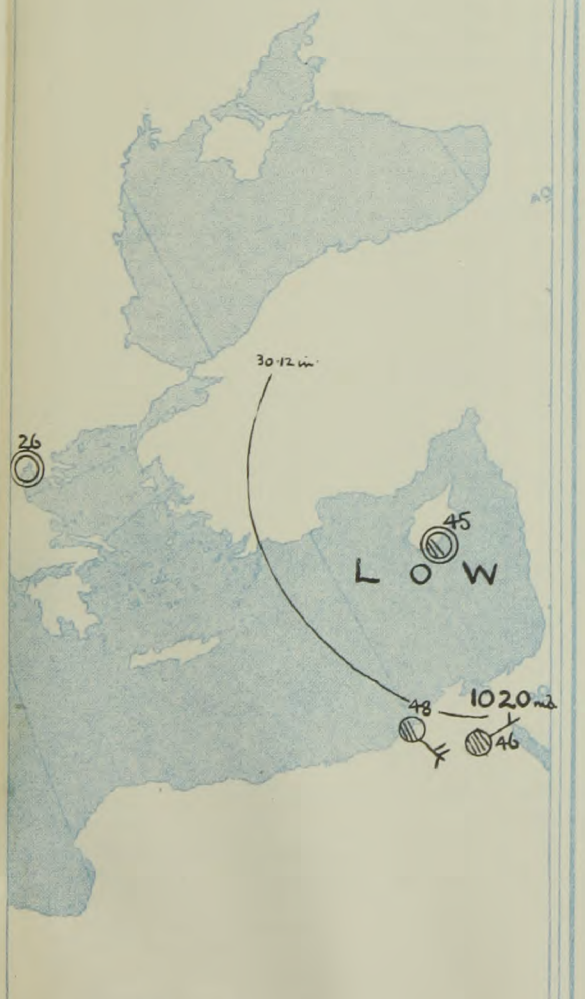
LOW

30.12in.

SCALE 1 : 9 x 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.





The Present Situation

Pressure is still lowest in a depression centred off the North-West of Norway and highest in an anticyclone extending over Eastern and Central France from the eastward. The wind over the British Isles is mainly W. or SW. and has little force except at Stornoway, and some other exposed North Western stations. Temperature has fallen several degrees, but it is still above the normal in most parts of England, with generally fair weather. In Scotland and Southern Ireland the sky is more cloudy; rain is falling at Nairn and hail at Malin Head.

The General Outlook

Further depressions - probably of a secondary character - are likely to pass eastward or north-eastward over or in the immediate neighbourhood of the United Kingdom, causing a prolongation of the Westerly and South-Westerly winds and unsettled, mild weather.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 342 {SATURDAY 8TH DECEMBER

	STATIONS.	EVENING OF 7TH					MORNING OF 8TH								24 HOURS ENDED 7 A.M. 8TH						Sunshine for 7TH
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.						°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	991·2	45	WSW	5	cq	993·5	+1	39	-9	WNW	4	-	c	4	14	48	38	oqp	cqp	eq.or	*
	Deerness (Orkney)							*														
	Stornoway ...	999·0	42	W	7	bqpq	1003·4	+7	38	-9	WNW	7	-	bcpq	5	8	47	38	bcpq	bcpq	bqpq	0·7
	Castlebay (Barra Isd.)	1003·8	44	W	4	c													o.bc	c.op.c		
	Glasgow ...	1007·8	44	SW	3	bq	1008·1	0	35	-12	W	3	-	b	*	7	48	35	c.omp	omp.cp	bp	0·0
	Eskdalemuir ...	1009·3	42	WSW	6	bc	1009·8	+1	35	-11	W	5	-	b	*	3	46	35	c.op.o	o.c.bc	bc.orc	0·0
	Malin Head ...	1007·8	46	WSW	5	bcq	1010·2	+2	41	-7	WNW	6	NW	bcqpm	6	5	50	37	cmp	cmq	bqpm	0·2
	Blacksod Point	1011·8	46	WSW	4	cmp	1014·9	-2	40	-8	WNW	3	W	bc	4	4	49	38	cmp	bcp	bcp.bc	*
	Valencia (Cahirciveen)	1018·5	50	W	4	bc	1018·8	0	45	-5	W	2	W	o	+	2	52	45	c.odp	c.b.bc	bc.b.c	0·0
	Roche's Point	1018·3	48	W	2	b	1019·1	*	43	-1	W	1	-	o	3	0·1	51	41	b.bc.o	o.c.b	b.o	*
	Birr Castle ...	1016·3	46	SW	1	c	1016·9	*	38	-11	SW	1	-	o	*	2	51	37	o.c	o.cp	cp.o	0·0
	Donaghadee ...	1011·1	46	WSW	3	m	1012·0	+2	38	-9	WSW	4	W	bcmp	3	1	48	38	bc.om	omp	bcmp	*
	Liverpool (Bidston)	1014·5	48	SW	2	o	1013·6	+2	48	-2	WSW	5	W	bc	4	1	52	43	bc	o	bcp	1·8
	Holyhead ...	1014·6	50	WSW	5	cq	1014·9	+1	45	-4	W	6	SW	bqq	5	0·4	51	44	b.bc.c	cpc.o	o.bp.bc	0·9
	Pembroke (St. Ann's)	1015·6	50	SW	3	o	1017·9	+2	46	-4	NW	3	NW	bc	3	-	51	45	o.c.bc	c	c.bcq	3·2
	Hartland Quay	1020·3	51	WSW	4	b	1019·0	0	49	-1	WNW	3	-	o	3	2	52	49	orf.o.c	bc.b.o.c	bc.op.b	*
	Scilly (St. Mary's)	1022·4	50	W	2	bc	1021·4	0	49	-2	WNW	3	W	c	4	0·2	52	47	o.c.bc	bc	bc.c	3·5
	Falmouth ...	1021·7	46	W	2	b	1020·0	0	44	-6	W	1	-	b	*	2	53	42	odq.r.c.o	o.bc.c.b	bc.cp.b	1·3
	Jersey (St. Aubin)	1023·5	50	SW	3	cmd	1020·4	*	48	-1	WSW	3	W	ce	3	5	52	47	o.c	cmd	cmd.ec	0·8
	Portland Bill ...	1019·8	50	W	3	bc	1018·3	0	49	-2	WNW	4	-	b	3	1	52	48	c.od.m	c.od	c.bc	*
	Dungeness ...	1019·7	47	SW	6	orq	1016·8	-1	47	-2	SW	4	SW	b	4	2	50	45	bc.o	opq	oqrd.c	*
	Dover	*	*	*	*	*											*		*			
	Wick	997·6	43	W	5	bc	998·9	+1	40	-7	NW	4	-	omp	4	1	48	37	omqd.c	cdq	bc.omp	*
	Nairn	1001·7	43	SW	3	cq	1002·5	*	38	-9	W	4	-	orq	3	5	48	36	cq	oq.bc	oq.cp	4·3
	Aberdeen ...	1002·8	45	SW	3	b	1002·5	0	39	-6	SW	3	-	o	2	-	51	38	b	b	b.bc.o	4·7
	Leith	1006·1	45	WSW	5	c	1006·5	0	38	-11	W	2	W	b	3	1	49	38	bcqp.c	cqu.c	c.cq.b	*
	Tynemouth ...	1009·9	50	W	2	bcm	1008·2	0	39	-12	W	2	-	bmq	3	2	51	38	bcm	bcm	cmqw	*
	Spurn Head ...	1014·3	48	WSW	3	c	1011·9	0	42	-5	SW	3	-	bqp	3	Trace	50	41	cm	cm	bcq	0·0
	Yarmouth (Gorleston)	1016·2	47	WSW	2	c	1014·0	-1	43	-2	WSW	3	-	bcm	3	1	51	41	om	om.c	bc.bmd	0·0
	Clacton-on-Sea	1018·3	47	WSW	3	o	1015·8	0	43	-2	W	3	W	bc	2	0·2	49	41	b.bc.ce	c.og.me	og.c.bc	0·0
	Nottingham ...	1015·8	47	SW	2	b	1014·5	*	42	-7	W	2	W	c	*	0·2	54	41	om.c	bc.b	b.bcp	1·8
	Benson (Oxon.) ...	1018·8	45	W	1	b	1016·2	-2	40	-9	WSW	2	W	b	*	0·2	51	38	od	c	bw	*
	Sth Farnborough	1019·6	48	W	1	b	1017·6	0	42	-8	WSW	4	NW	b	*	1	51	40	odpr.om	od.r.b	b.bm	0·0
	Salisbury Plain	1020·0	40	WNW	6	bc	1018·2	-2	40	-8	W	4	-	c	*	1	51	38	o	o	oqr	*
	London (Kew Obsy.)	1018·9	50	SW	2	o	1017·0	0	43	-5	SW	2	-	b	*	1	51	42	o.od.o	o.od.o.od	o.bm.ob	0·0
NORTHERN EUROPE.	Spitsbergen ...	989·1	0	N	4	b	990·6	+2	-6	-7	-	0	*	b	*	*	+2	-6				
	Vardö	991·6	27	SW	4	b	997·5	+3	23	-7	SW	4	-	b	3	*	30	23				
	Bodö	992·4	30	N	2	c	986·2	-3	37	+3	E	3	-	o	2	*	37	28				
	Christiansund ...	990·6	45	SSW	2	c	986·7	-2	45	0	SW	2	-	o	3	6	46	43				
	Skudesnaes ..	999·8	46	SW	4	c	996·8	-1	41	-5	WSW	4	-	o	4	3	46	41				
	Færder (X'iania Fjord)	999·9	45	WSW	6	b	998·3	-1	45	-1	SW	6	-	m	3	-	46	45				
	The Scaw (Skagen)	1003·9	45	WSW	3	m	1002·8	-1	43	-3	SW	3	-	o	3	-	46	43				
	Blaavands Huk	1010·8	45	W	3	m	1007·6	-1	45	0	WSW	3	-	o	*	Trace	46	43				
	Copenhagen ...	1011·0	45	WSW	3	m	1009·4	-1	43	+2	WSW	3	-	f	*	-	45	41				
	Bornholm ...	1011·2	43	WSW	6	f	1010·6	-2	41	+2	WSW	6	-	f	2	1	43	39				
FRANCE, &c.	The Helder ...	1016·7	46	SW	4	o	1012·7	-2	43	-3	SW	4	-	o	2	1	48	43				
	C. Gris Nez ...	1021·1	48	SW	6	r	1017·8	-1	49	0	W	4	*	o	4	6	50	46				
	La Hêve	1022·6	45	SW	5	r	1019·0	*	47	+2	SW	4	*	c	3	-	46	45				
	Brest (St. Mathieu)	1024·6	50	WSW	4	r	1022·3	-2	34	-17	WSW	1	*	bc	5	-	52	?				
	Rochefort (Ile d'Aix)	1028·2	40	SSW	3	m	1024·8	-1	34	-3	SE	3	*	m	*	Trace	46	34				
	Biarritz	1027·0	44	ESE	3	b	1024·7	0	45	+8	-	0	*	b	2	-	52	41				
	Paris	1027·1	41	S	2	o	1022·2	-2	39	+5	S	2		r	*	2	44	32				
	Belfort	1031·9	30	WSW	3	m	1028·6	*	23	-2	W	2	*	bc	*	-	39	21				
	Lyons	1030·6	34	-	0	b	1027·4	*	27	+2	-	0	*	b	*	-	40	23				
	Nice	1028·8	39	E	1	b	1023·9	-2	36	+3	E	1	*	b	1	-	45	32				
	Perpignan ..	1029·1	41	-	0	b	1024·7	-3	30	-4	SW	1	-	b	*	-	48	30				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1026·3	52	N	1	b	1024·8	-1	41		S	1	SE	bc	1	-	54	37				
	Madrid	1026·4	43	NE	2	o	1026·2	-1	37		NE	2	-	o	*	2	46	37				
	Lisbon																					
	Azores (Horta) ...	1032·3	*	-	0	b	1031·6	-1	57	-2	NNE	3	*	b	1	-	64	57				
	Madeira	1023·1	63	NE	3	c	1022·2	-1	59	0	N	3	-	c	3	-	66	57				
	Gibraltar	1019·3	57	E	7	bc	1016·9	*	52	+7	E	7	*	r	5	9	57	45				
	Malta	*	*	*	*	*	1029·4	+1	50	+2	NW	2	-	c	1	-	54	45				
	Limassol	*	*	*	*	*	1017·1	+1	45	-7	-	0	-	bc	0	Trace	55	36				
	Alexandria ...	1020·7	54	N	5	c	1020·4	+1	48	+2	SSE	3	SW	c	3	10	61	46				
	Cairo (Helwan) ...	1020·6	52	N	3	b	1020·6	+1	46	-11	E	1	W	o	*	-	59	43				

LONDON 8TH DEC. 9h. G.M.T.	Humidity. 15 h. 7TH	Humidity. 9 h. 8TH	Sunshine for 7TH	24 Hours ended 9 h. 8TH. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	93	86	0·0	53	43	35	Trace	o	od.o	o.bc.o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	88	0·0	53	41	33	1	o	od	r.bc
CAMDEN SQ. (British Rainfall) ..	93	92	0·0	52	41	36	Trace	o.od	od	*
S. KENSINGTON (Museum Grounds)	*	88	0·0	52	43	-	1	o	o.od	om

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ...7TH...

Total.	Average Rate.	Max. Rate.
Joules. 50	Milliwatts. 1·6	Milliwatts. 5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

GALES.

Duration and Extreme Force in British Isles.

ABERDEEN

Aurora last night.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-Millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20471 .SUNDAY, 9TH DECEMBER..1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature was rather variable, the maxima ranging from 52° at Jersey to 35° at Harrogate. A little frost occurred locally in the night. Precipitation was general, Falmouth registering 18 mm rain and hail. As a rule there was very little or no sunshine, but Torquay had 5·3 hours.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 8TH DECEMBER.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 8TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	40	35	c.c	c.bc	0·6
	Montrose	-	-	42	36	b	b	3·8
	St. Andrews							
Eng. N.E.	Harrogate	2	-	42	34	b.bc	b.bc	3·3
	Skegness	-	-	44	35	bc	o.b	2·7
England, E.	Felixstowe	Trace	-	46	39	bc	bc	2·9
	Southend-on-Sea	-	-	45	40	bc.c3	c.o	0·6
England, S.E.	Margate	Trace	-	48	43	b	c	1·0
	Hastings	2	-	49	42	or.bc.b	bc.o	3·0
	Eastbourne	4	-	48	43	bc.b	bcq	3·3
	Seaford	*	*	50	42	b	m	2·7
	Worthing							
	Littlehampton	*	*	46	40			0·0
	Bournemouth	3	-	47	41	c	o	0·6
Scotland, W.	Oban	2	6	49	39	bc	r.o	1·7
Eng. N.W.	Morecambe					*	*	
	Southport	4	-	45	40	o.c.bc.c	c.bc.b	2·7
Midlands	Malvern							
	Ross-on-Wye	-	-	45	39	cm.bc	c	0·7
Wales.	Rhyl							
	Colwyn Bay							
	Llandudno	*	*					
	Aberystwyth	*	*	46	44	r.o.c	c.b.o	0·5
England, S.W.	Weymouth	*	*					
	Torquay	-	1	47	41	o	or	0·0
	Paignton	*	*	48	40	c	o	0·0
	Penzance	-	9	50	42	c	or	0·0
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 8TH DECEMBER

	STATIONS.	Evening of 7TH: Barom. Millibars at M.S.L.	Evening of 7TH: Temp.	Evening of 7TH: Wind Direc.	Evening of 7TH: Wind Force 0–12.	Evening of 7TH: Weather.	Morning of 8TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	997·7	18	SSW	5	s	1001·0	+1	28	-4	SW	3	o	-	*	7
	Hangö	1001·8	41	WSW	2	o	1006·3	0	43	+2	WSW	3	o	-	*	37
	Yuriev															
	Petrograd	1004·8	32	SW	4	s	1008·2	+1	34	+7	SW	4	o	5	33	25
	Vijni Volotchok	1019·2	23	S	3	b	1019·0	0	23		S	3	o	-	*	23
	Gorki							*							*	
	Moscow	1029·9	16	SSW	3	b	1028·4	0	10	-8	SSW	1	b	-	*	7
	Kiev	1030·4	16	E	2	b	1025·0	-3	19	-2	NNE	4	o	-	*	9
	Kharkov	1029·9	19	ENE	4	o	1023·8	-1	19		E	3	o	-	*	19
	Kishinev						1022·1	-4	14		-	o	b	?	*	8
	Elisabetgrad						1019·9	-3	21		NE	3	o	4	*	16
	Nicolaiev						1019·0	*	21		NW	2	f	3	*	14
	Odessa	1025·1	18	NNE	4	o	1021·2	-2	19		NNE	3	m	3	*	16
	Tarkhankout						1019·9	*	32		NW	4	o	-	*	25
	Soukhoum														*	
Mediterranean.	Venice	1029·5	37	-	o	b	1025·1	*	36	+6	-	o	o	-	45	33
	Turin	1027·7	33	-	o	b	1024·3	*	28	-5	-	o	b	-	37	25
	Pesaro	1027·4	30	-	o	b	1023·7	*	33	-1	-	o	c	-	39	28
	Leghorn	1028·3	39	-	o	b	1023·4	*	39	-4	-	o	c	-	43	36
	Rome	1029·5	37	-	o	b	1025·0	*	36	-3	-	o	o	-	45	33
	Viesti	1026·5	41	-	o	b	1022·5	*	45	o	NW	3	b	-	45	36
	Brindisi		41	NW	4	r	1021·5	*	45	o	NW	4	r	5	46	41
	Cagliari	1027·5	50	NE	3	c	1027·4	*	48	-2	NW	4	r	-	55	43
	Palermo	1030·2	45	-	o	o	1025·7	*	43	-9	-	o	c	-	54	37
	Tripoli						1027·9	*	45	-1	S	1	b	-	?	32
	Algiers															
Sweden.	Hernösand	996·4	30	-	o	f	994·3	*	28	-6	-	o	b	*	*	*
	Stockholm	1000·7	59	SW	2	o	1001·6	*	43	+6	SSW	2	o	*	*	*
	Wisby	1005·0	45	SW	2	o	1007·2	*	43	+4	SW	4	o	*	*	*

ICELAND.	Morning of 8TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1007·6	12	-7	-	o	o
Reykjavik	1006·3	18	+4	-	o	c
Vestmanna	1006·2	19	+3	N	4	b
Seydisfjord	1001·9	14	+11	N	8	s
Thorshavn	993·3	33	+5	N	3	o

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

9TH AND 10TH DEC 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. 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

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 9TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
clear sky. sky ¼ clouded. sky ½ clouded.
sky ¾ clouded. overcast sky. rain falling.
snow. hail. fog. mist. thunder.
thunderstorm.

SEA DISTURBANCE.—Rough High

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.

1000mb. 995mb. 1005mb. 1010mb. 1015mb. 1020mb. 1025mb. 1030mb.

LOW

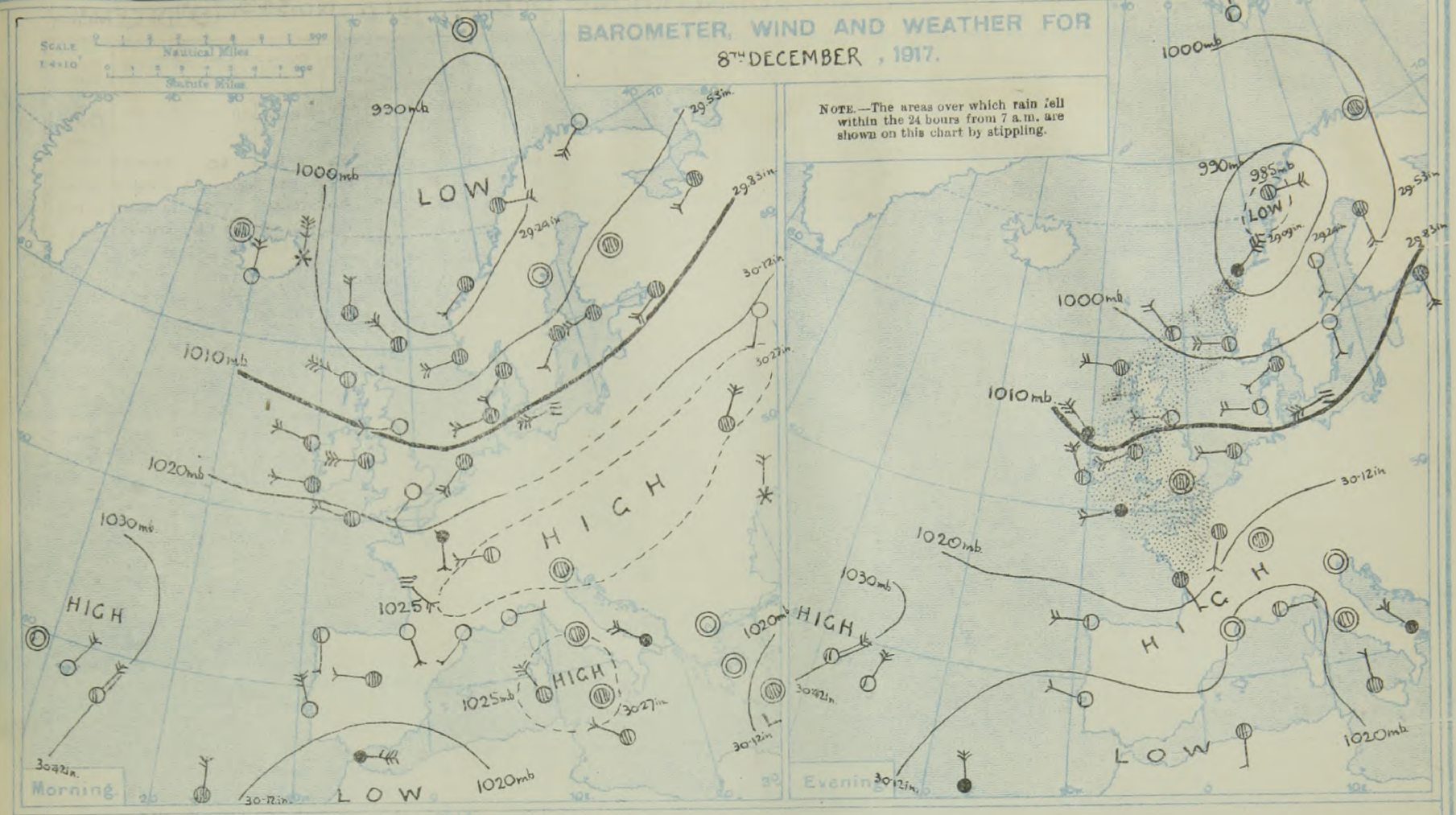
Barometer rising

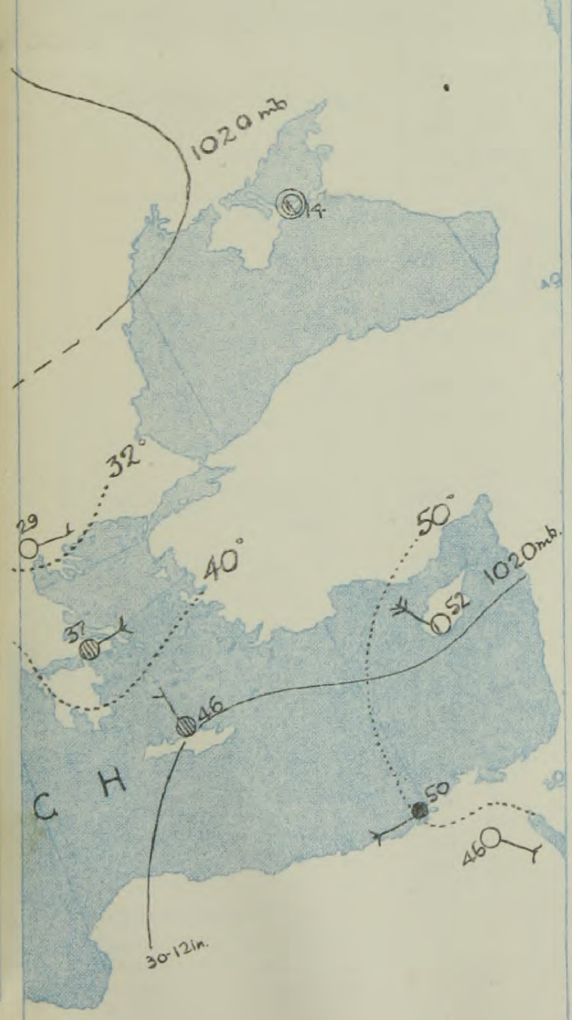
Barometer LOW

Barometer falling

HIGH

29.53in. 29.68in. 29.83in. 29.38in. 29.97in. 30.12in. 30.27in. 30.42in.





The Present Situation

An extensive low pressure system now embraces western and northern Europe, the barometer being below 1005 mb. in a depression centred over Northern France, and below 995 mb. in another over Northern Norway. The system is flanked by equally extensive anticyclones over the Atlantic and the Eastern half of Europe, the barometer being above 1030 mb. at the Azores, and above 1020 mb. in the far east. A well marked N. wind current is shown over the western regions, from Spitzbergen down to Madeira and the Azores, blowing rather freshly at some of our own western stations, a gale at Holyhead. The S. current to the eastward is weaker and somewhat more variable.

The weather is in a changeable state, with showers of cold rain, hail or snow in many localities. Temperature has risen over France, the Peninsula, Egypt and the Arctic Sea. In all other regions it has given way, but only in eastern France, Eastern Europe and the Arctic Islands is the thermometer below the freezing point.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 343. Sunday, 9th DECEMBER.

	STATIONS.	EVENING OF ... 8th ... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF ... 9th ... Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ... 9th ... Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 8th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	999·2	37	NW	3	bc	1005·1	+1	34	-5	-	0	-	bc	0	1	40	32	c.bc	bc	c.c.m.bc	*
	Deerness (Orkney)	1003·0	35	W	2	b	1008·1	*	36		WNW	3	-	0	3	2	41	33	0p	0p.c.bc.b	b.bcp.c	0·4
	Stornoway ...	1004·3	35	W	3	o	1012·0	+3	36	-2	NNW	3	-	bc	2	5	40	33	bcp	c.0p	o bcsp	0·5
	Castlebay (Barra Isd.)	1002·7	38	NNW	4	cp	1013·5	+4	37		NNE	2	W	c	3	6	43	33	chp 0p	0.cp	csp.bc	0·1
	Glasgow ...	1007·5	37	SSW	2	bz	1010·2	+6	34	-1	NNW	2	N	c	*	2	40	33	cp.bcz	b.bz.	b.rs.p	1·5
	Eskdalemuir ...	1009·5	31	SW	2	b	1008·6	+4	33	-2	N	4	-	oim	*	8	39	27	b.osp.c	c.b	b.cfs	1·5
	Malin Head ...	1005·0	38	SSW	3	cph	1012·2	+5	39	-2	NNW	6	NW	cq	6	3	44	36	bcq	cphq	cpq	0·9
	Blacksod Point	1009·6	43	NW	5	cpq	1015·8	+6	38	-2	N	5	N	bcq	4	4	43	34	cmpq	0pq	bcphq	*
	Valencia (Cahirciveen)	1014·0	43	NNW	4	bc	1016·4	+3	39	-7	N	4	N	cphq	4	4	47	38	cp	0pq.bc	bc.cpq	0·0
	Roche's Point	1013·3	41	WNW	3	bc	1014·4	*	36	-7	NNW	3	-	b	2	1	46	36	o	0p.o.bc	cp.b	*
	Birr Castle ...	1011·2	36	SW	1	c	1015·3	*	32	-6	NW	1	-	b	*	4	42	31	c.0p	0p.c	cspx	0·2
	Donaghadee ...	1008·5	39	SW	3	cmg	1009·0	+5	41	+3	N	5	N	bcq	5	1	41	36	bcm	bcm	bcmpq	*
	Liverpool (Bidston)	1011·1	37	SSW	2	b	1006·5	+1	38	-10	WSW	1	W	c	1	8	48	35	bc.0p	bc.b	or	0·8
	Holyhead ...	1010·1	43	WSW	4	cg	1007·2	+2	43	-2	N	8	N	cphq	6	2	45	39	c.bc.c	c.cpd	cphq	0·0
	Pembroke (St. Ann's)	1011·8	45	W	2	or	1008·8	+1	39	-7	NW	4	NW	c	3	5	47	39	bc.c.0	0	clp.bc	0·1
	Hartland Quay	1012·5	46	SSW	3	o	1006·2	0	44	-5	NNW	6	-	bcq	5	6	49	43	0p.c.s	0.0ru.c	or.cpq	*
	Scilly (St. Mary's)	1014·4	50	WSW	3	or	1010·6	+1	43	-6	N	6	N	cq	6	8	51	40	bc.cp	or	bcpq	0·0
	Falmouth ...	1011·8	42	SW	2	or	1008·1	-1	39	-5	N	3	-	b	*	18	49	37	bc.c.0p	0p.or	r.bp.h	0·2
	Jersey (St. Aubin)	1015·6	46	WSW	3	o	1004·0	*	45	-3	NW	5	-	0	4	12	52	42	c.or.o	0	c.or.o	0·0
	Portland Bill ...	1013·3	48	SW	1	o	1004·5	-1	41	-8	NNW	4	-	bc	2	7	50	39	bc.c	c.o	c.bc	*
	Dungeness ...	1014·4	45	WSW	3	bc	1001·8	-3	45	-2	ESE	2	-	r	2	4	50	42	bc	bc	bc.cr	*
	Dover	*	*	*	*	*													*	*		
	Wick	1004·3	33	W	2	bc	1008·7	+6	33	-7	NW	2	-	o	2	1	40	33	oimp	0p.bcm	bc.omg	*
	Nairn	1004·8	33	-	0	og	1010·8	*	35	-3	W	3	-	cg	2	6	39	30	bc	bc.c	bcrsp	1·6
	Aberdeen ...	1006·1	35	SW	3	b	1009·0	+5	34	-5	NNW	3	-	bc	2	1	40	35	o.bc.c	c.bc.b	bcrsp	1·7
	Leith	1007·3	36	W	1	b	1009·1	+3	38	0	N	2	N	c	3	1	41	35	b	b.bcd.b	bcd.o.c	*
	Tynemouth ...	1009·2	37	W	2	bm	1007·1	+1	35	-4	NNW	1	-	omg	3	-	41	34	bmq	bm	bm.oim	*
	Spurn Head ...	1011·5	43	W	3	b	1006·6	0	38	-4	-	0	-	cimx	4	0·2	44	36	cq	cm	bcmx	0·0
	Yarmouth (Gorleston)	1013·3	39	WNW	2	bc	1006·7	-3	41	-2	E	2	-	or	3	-	45	35	bc	bc	bcm.or	3·2
	Clacton-on-Sea	1014·0	40	W	2	b	1004·1	-5	40	-3	N	2	-	r	2	4	45	40	bc.c	cm	cm.org	1·3
	Nottingham ...	1012·2	38	W	1	b	1006·2	*	33	-9	-	0	-	s	*	1	45	37	c.om	oim.c	bc.o	0·8
	Benson (Oxon.) ...	1013·4	39	S	2	o	1005·2	0	35	-5	NNW	4	-	r	*	3	45	35	c	o	o	*
	Sth Farnborough	1014·0	42	SW	2	o	1004·9	-1	36	-6	N	2	-	r	*	7	44	36	bm.oz	oz	o.d.orm	0·6
	Salisbury Plain	1013·8	40	WSW	1	o	1006·3	-7	38	-2	NNE	5	-	o	*	3	44	36	c.o	c.b	org	*
	London (Kew Obsy.)	1013·7	42	-	0	o	1004·5	-2	38	-5	N	2	-	oimr	*	5	43	38	b.o	o.c.om	bm.omr	0·9
NORTHERN EUROPE.	Spitsbergen ...	1000·4	-2	N	2	b	1003·4	+1	1	+7	NE	1	*	o	*	*	1	-8				
	Vardö	999·4	23	-	0	o	1025·0	-3	34	+11	S	5	-	s	3	*	34	21				
	Bodö	984·8	37	E	4	c	9928	+10	36	-1	SW	7	-	.o	4	-	41	30				
	Christiansund ...	989·8	41	SW	6	r	1002·6	+4	37	-8	-	0	-	c	4	3	46	34				
	Skudesnaes ..	999·6	41	W	4	bc	1004·2	+4	39	-2	N	4	-	c	5	3	43	41				
	Færder (Christiania Fjord)	997·2	41	SW	6	b	1002·7	+4	41	-4	W	4	-	b	3	-	45	41				
	The Scaw (Skagen)	1001·4	37	SW	2	o	1006·2	+4	39	-4	W	3	-	c	3	1	45	37				
	Blaavands Huk	1007·4	43	WNW	3	b	1009·4	+1	39	-6	-	0	-	c	*	Trace	46	37				
	Copenhagen ...	1007·5	43	WSW	2	c	1010·3	+2	39	-4	SW	2	-	m	*	-	45	37				
	Bornholm ...	1008·3	41	WSW	5	f	1011·5	+3	39	-2	WSW	4	W	c	1	Trace	41	36				
FRANCE, &c.	The Helder ...	1012·3	43	W	3	c	1007·4	-1	37	-6	ESE	2	-	m	1	-	46	36				
	C. Gris Nez ...	?	45	W	2	o	1002·2	-5	40	-9	ESE	3	*	r	2	3	50	41				
	La Hève							*					*									
	Brest (St. Mathieu)	1016·0	50	NW	3	r	1008·7	+1	45	+13	N	5	*	bc	4	2	54	34				
	Rochefort (Ile d'Aix)	1018·3	40	SSE	1	o	1004·8	-1	45	+11	NNW	4	*	r	*	11	45	?				
	Biarritz												*									
	Paris	1017·0	41	S	2	o	1004·2	-4	39	0	S	2	-	r	*	5	43	39				
	Belfort	1020·6	33	-	0	o	1012·4	*	28	+5	E	2	*	c	*	-	37	23				
	Lyons	1020·6	34	-	0	b	1019·9		28	+1	-	0	*	c		-	39	25				
	Nice	1019·6	40	E	2	b	1016·2	-1	41	+5	-	0		b	2	-	46	34				
	Perpignan ..	1019·4	39	-	0	b	1012·8		36	+6	-	0		bc	*	-	50	30				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1020·8	54	W	3	b	1017·0	0	52	+11	N	4	-	c	2	9	54	46				
	Madrid														*							
	Lisbon	1018·3	54	WNW	2	b	1016·6	0	45		W	1	-	b	x	-	55	45				
	Azores (Horta) ...	1030·0	*	NE	4	bc	1029·5	-1	55	-2	NNE	2	*	b	1	-	64	55				
	Madeira	1018·6	59	N	3	r	1019·0	0	59	0	N	3	-	bc	3	-	68	57				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1020·0	0	52	+2	-	c	-	o	0	-	55	50				
	Limassol	*	*	*	*	*	1021·9	+1	52	+7	NW	4	W	b	3	6	57	45				
	Alexandria ...	1017·8	57	WSW	4	o	1018·8	+1	50	+2	WSW	2	NW	r	2	7	63	48				
	Cairo (Helwan) ...	1018·7	50	-	0	b	1019·9	+2	46	0	SE	2	-	b	*	-	57	41				

LONDON 9th DECEMBER, 9h G.M.T.	Humidity. 15 h. 8th.	Humidity. 9 h. 9th.	Sunshine for 8th.	24 Hours ended 9 h. ... 9th ... Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	82	94	9·7	45	35	30	6	c.0	0.or	or
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	93	95	2·7	45	37	35	7	bc.o	o	od
CAMDEN SQ. (British Rainfall) ..	79	100	0·3	45	36	34	7	o	o	*
S. KENSINGTON (Museum Grounds)	*	92	0.6	45	36	*	*	bc.o	0.or	or

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 8th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
140	5·0	11·0

The thermometers at Greenwich and Camden Square are in Glaisher screens.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 80472. Monday, 10th DECEMBER, ...1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Heavy rain fell in the extreme South East of England, but over most of the country the falls were slight and a few hours of bright sunshine were measured. Temperature fell to 12° at Eskdalemuir during the night, and frosts were experienced at other Northern stations.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 9th DECEMBER.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 9th.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	4	–	40	33	bc. b	b. bc	4.0
	Montrose	–	–	38	32	o	b	2.2
	St. Andrews							
Eng. N.E.	Harrogate	1	–	35	29	o	o	3.0
	Skegness	–	–	44	31	o	b	0.1
England, E.	Felixstowe	5	9	40	38	or	or	0.0
	Southend-on-Sea	8	7	41	36	or	or	0.0
England, S.E.	Margate			43	39	or	or	0.0
	Hastings	6	9	45	35	or	or	0.0
	Eastbourne	10	6	43	35	od	or	0.0
	Seaford	*	*					
	Worthing	8	3	36	35	r	r	0.0
	Littlehampton							
	Bournemouth	5	–	41	38	o. c	o	1.0
Sc'tld W.	Oban	5	–	39	34	b. bc	bc. b	2.5
Eng. N.W.	Morecambe					*	*	
	Southport	6	Trace	46	34	b. bc. c. o	o. c. bc. b	0.1
Midlands.	Malvern							
	Ross-on-Wye	–	–	40	32	bmx	bc	2.3
Wales.	Rhyl	5	–	42	34	rq	oq	0.3
	Colwyn Bay	10	4	41	37	c. o	o	0.0
	Llandudno	*	*	43	37	r. c	c	0.1
	Aberystwyth	*	*	42	36	or. c	bc. o	1.5
England, S.W.	Weymouth	*	*					
	Torquay	6	–	45	38	b	b. bc. c	5.3
	Paignton	*	*	45	38	or. b	bc	5.5
	Penzance							
	Newquay	8	1	45	40	* b. oq	o. b. oq	1.5
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 9th December

	STATIONS.	Evening of 8th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 9th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1012.4	+1	32	+4	S	3	o	–	*	30
	Hangö						1005.3	o	41	-2	SSW	4	o	1	*	39
	Yuriev															
	Petrograd	1012.2	32	S	4	o	1013.3	+2	27	-7	SSE	4	o	–	34	28
	Vijni Volotchok															
	Gorki						1020.3	*	12	-21	SW	1	b	–	*	10
	Moscow	1027.3	18	SSE	2	b	1025.0	o	18	+8	NE	2	c	–	*	14
	Kiev	1021.1	25	N	2	o	1015.4	o	21	+2	NE	3	bc	–	*	18
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1020.2	33	–	o	b	1018.6	*	30	-6	NNW	1	c	–	38	30
	Turin	1021.1	34	–	o	b	1018.6	*	33	+5	–	o	o	–	37	28
	Pesaro	1020.1	34	–	o	b	1018.3	*	34	+4	SW	1	b	–	43	28
	Leghorn	1019.3	46	–	o	o	1018.5	*	43	+4	–	o	o	–	48	41
	Rome	1020.9	43	–	o	c	1019.3	*	39	+3	N	1	o	–	50	37
	Viesti	1019.3	43	WNW	2	b	1019.1	*	45	o	W	1	b	–	54	45
	Brindisi	1019.4	48	NW	3	r	1019.1	*	45	o	NNW	2	r	5	48	41
	Cagliari						1015.3	*	56	+2	NW	4	o	–	55	45
	Palermo	1021.9	45	N	1	o	1019.8	*	52	+9	S	1	b	–	59	41
	Tripoli						1023.5	*	46	+1	S	1	b	–	?	43
	Algiers	1018.0	48	S	1	c	1013.3	-1	50		SSW	5	o	–	52	46
Sweden.	Hernösand	993.4	34	S	2	b	1000.2	*	34	+6	–	o	b	*	*	*
	Stockholm	1000.7	39	S	2	b	1005.1	*	37	-6	SW	2	a	*	*	*
	Wisby	1004.4	43	S	2	o	1009.0	*	39	-4	SW	2	c	*	*	*

Morning of 9th

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1019.6	19	+7	W	2	b
Reykjavik	1018.6	14	-4	E	1	o
Vestmanna	1015.0	16	-3	N	1	b
Seydisfjord	1015.9	3	-11	N	6	5
Thorshavn	1003.8	28	-5	N	5	5

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

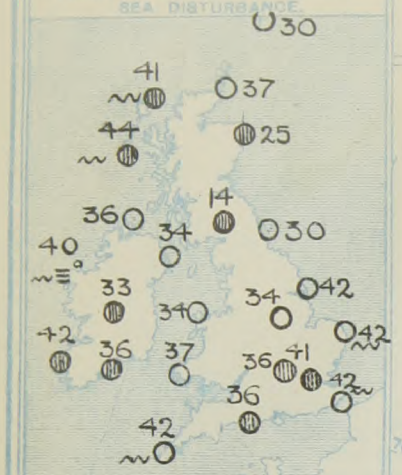
10th and 11th Dec., 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.54 / 7.56	11.46 / 11.46	3.37 / 3.37
Greenwich	7.56 / 7.57	11.53 / 11.53	3.50 / 3.49
Wick	8.53 / 8.54	12.5 / 12.3	3.17 / 3.16
Valencia	8.40 / 8.41	12.34 / 12.34	4.28 / 4.27

Printed at the Meteorological Office, South Kensington, London. S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

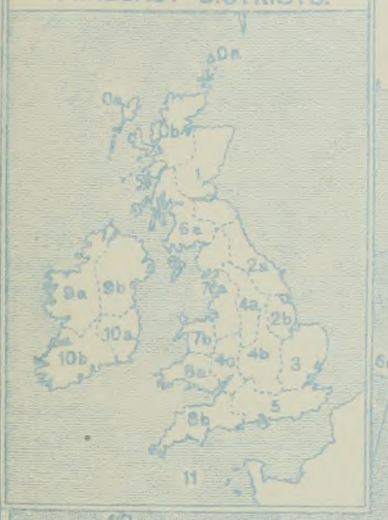
‡ The barometric change is expressed in half-millibars.

THE MORNING OF MONDAY, 10TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

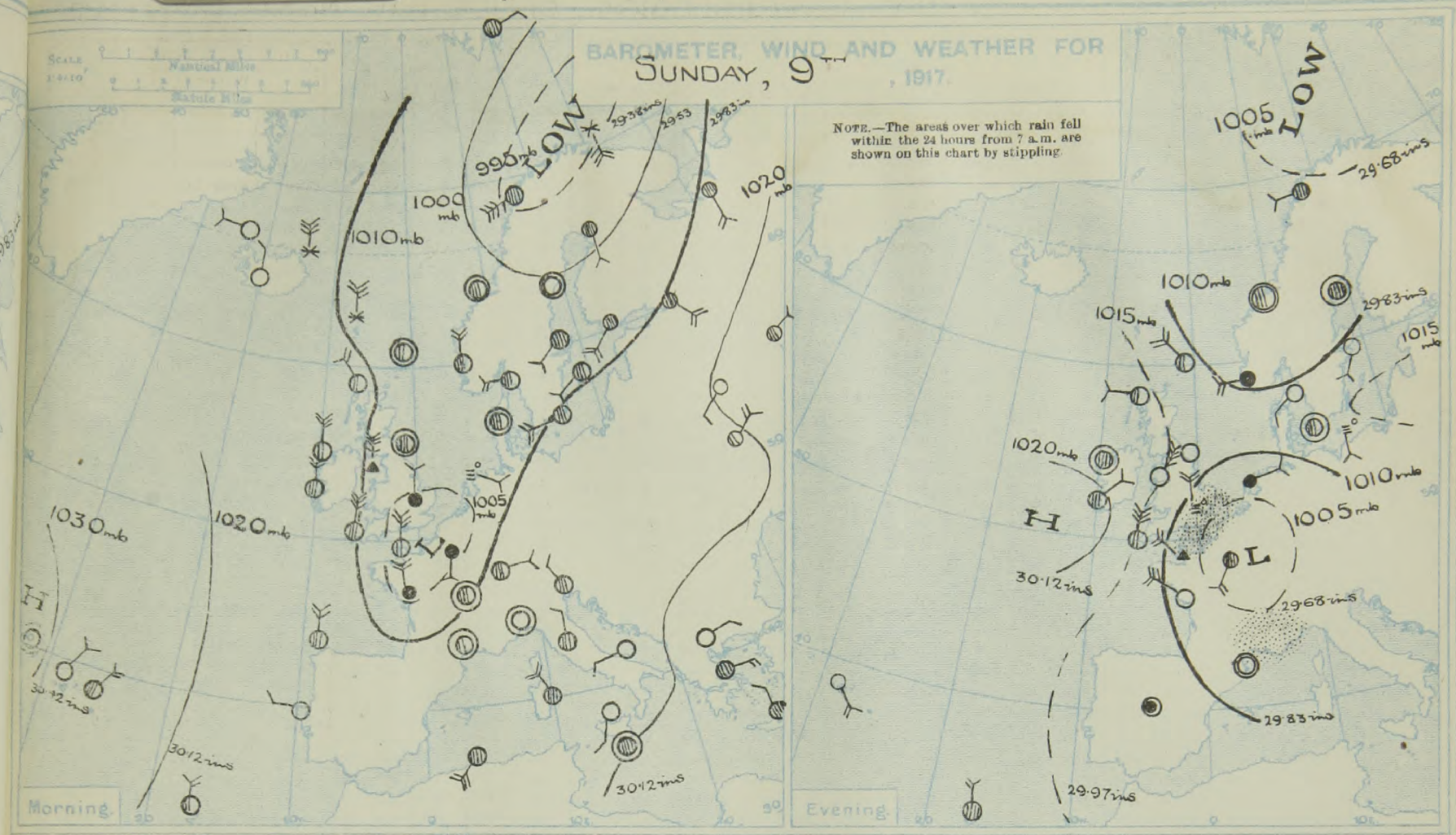
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊤K, thunderstorm.

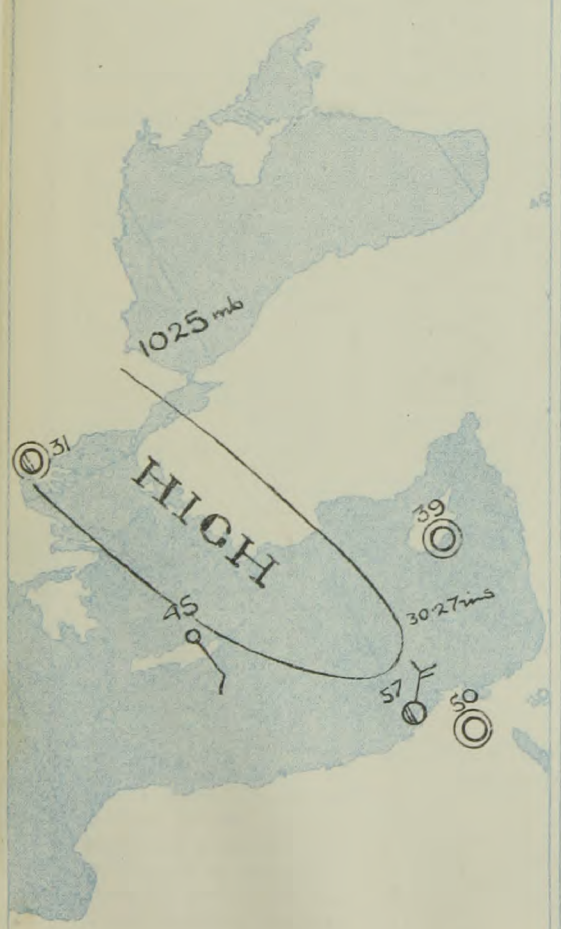
SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.

1000 mb
-8
LOW
2953 ins
2968 ins
2983 ins
1005 mbs
27
30
35
36
34
30
36
41
25
HIGH
030
32°
40°
1010 mb Bar. falling slowly
1015 mb
Barometer rising
42
39
1010 mb
LOW
37
40
45
48
30·12 ins
39
29·83
29·97 ins
59
46
1020 mb
1025 mb
HIGH
59
1015 mb
1020 mb
40°

SCALE 1 : 2 × 10⁷
Nautical Miles 0 100 200 300
Statute Miles 0 100 200 300

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.





The Present Situation

An anticyclone lies over the Northern and Central North Sea with a tongue of high pressure stretching across the South of Scotland to St. George's Channel. At Eskdalemuir pressure exceeds 1020 mb. The depression which lay over the South-East of England yesterday morning has moved away to France. It is causing a fresh NE wind in the South-East of England and Eastern Channel with local rain. On our Western coasts the wind is strong Southerly under the influence of a depression which is indicated over the Atlantic. Over the mainland of Scotland and the North-West of England the weather is fine, with low temperatures, particularly inland.

The General Outlook

The fall of the barometer in the West is slight and the anticyclone seems likely to maintain its position over the North Sea and British Isles with a tendency to increase in intensity. Light winds and fair or cloudy weather will prevail over most of the country, but on our extreme Western coasts the wind will be fresh from the South.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 344 10th DECEMBER

	STATIONS.	Evening of 9th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 10th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 A.M. 10th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 9th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·8	34	NW	4	bc	1017·3	+1	30	-4	–	0	–	bc	0	1	38	26	bcph	bcph	bcsp.b	*
	Deerness (Orkney)	1013·9	34	NW	4	bcps	1016·9	*	36	0	SE	3	–	c	3	2	37	31	ops.c.bc	cps.bc	c	1·3
	Stornoway ...	1015·7	31	W	2	bc	1013·8	-1	41	+3	SSW	6	–	o	5	1	41	28	bc	bc	bc.op	2·2
	Castlebay (Barra Isd.)	1015·9	36	NNE	2	b	1014·2	0	44	+10	S	5	–	o	5	3	45	35	cpsh.b	b	b.o	2·1
	Glasgow ...	1017·5	31	W	1	bz	1019·9	+2	25	-8	ESE	1	–	b	*	–	37	23	c.bc.b	b	bf.bmx	5·1
	Eskdalemuir ...	1017·1	28	NNW	3	b	1021·5	+3	14	-19	–	0	–	b	*	0·4	34	12	oms.bc	bc.b	b	0·8
	Malin Head ...	1017·2	38	NNW	1	bc	1015·5	0	36	-3	S	3	S	bc	2	2	44	35	bcpsq	bc	bc	3·1
	Blacksod Point	1019·3	40	–	0	oq	1012·9	-2	40	+2	SSE	7	–	ome	6	0·1	42	35	bc	bc	eg.ome	*
	Valencia (Cahirciveen)	1020·9	37	NE	2	c	1016·6	-2	42	+4	SE	5	–	o	*	0·2	44	35	bc	bc.b	bc.c.o	5·6
	Roche's Point	1019·9	38	NNW	2	b	1019·0	*	36	0	–	0	–	o	1	0·3	41	35	b	b	bx.o	*
	Birr Castle ...	1020·0	31	NW	1	b	1018·5	*	33	+1	S	1	–	o	*	–	38	28	bx	bx	bx.o	5·6
	Donaghadee ...	1016·7	40	NNE	4	bcq	1018·1	0	34	-7	–	0	–	bcm	0	Trace	41	31	bcq	bcq	bcp.bc	*
	Liverpool (Bidston)	1014·9	36	N	3	o	1019·6	+3	31	-7	N	1	–	b	1	1	39	30		od	bx	0·1
	Holyhead ...	1016·1	41	NNE	7	b	1018·5	+1	34	-9	E	2	–	bx	1	Trace	45	33	cq	c.bc.b	bx	3·8
	Pembroke (St. Ann's)	1013·6	42	N	5	r	1018·3	+4	37	-2	NE	1	NE	b	2	2	44	35	bcq	bcpq	cpq.bc	3·6
	Hartland Quay	1012·8	43	NNE	8	cq	1017·0	+1	41	-3	NNE	3	–	b	3	1	45	38	cphq	c.bc.cq	cq.c	*
	Scilly (St. Mary's)	1015·0	43	NNE	6	bc	1017·0	0	42	-1	ENE	3	NE	bc	5	1	45	38	cpq	cq.bcq	cpq.bc	2·8
	Falmouth ...	1013·2	41	NNE	6	byq	1016·2	+1	44	-5	N	3	–	bx	*	1	46	32	cr.bph	bcqph	bxy	3·8
	Jersey (St. Aubin)	1007·0	43	NW	4	ophq	1011·2	*	42	-3	N	4	–	or	3	3	45	40	o.bc	bchq	cp.or	3·0
	Portland Bill ...	1008·7	40	N	5	bc	1012·5	+2	36	-6	N	5	–	c	3	–	42	36	bc	bc	bc.c	*
	Dungeness ...	1011·9	38	NE	4	or	1010·5	+6	42	-3	ENE	3	E	bc	5	23	45	39	or	or	or.bc	*
	Dover	*	*	*	*	*													*	*		
	Wick	1014·6	35	N	3	bc	1016·9	0	37	+4	SSW	2	–	bcm	2	0·2	37	26	ond cm	cd.cmps	bcm	*
	Nairn	1015·9	29	–	0	bc	1016·9	*	24	-11	–	0	–	bc	1	–	35	22	c.bc	bc.c	bcx	3·1
	Aberdeen ...	1015·4	33	W	3	b	1019·3	+1	25	+9	WNW	2	–	b	2	Trace	36	25	bcsp.b	b	bz	4·8
	Leith	1016·3	34	NW	1	b	1019·4	+1	26	-12	W	1	–	b	2	–	39	26	c.bc.b	b	b.bx.b	*
	Tynemouth ...	1013·5	38	NNW	2	cmp	1018·7	+2	30	-5	NNW	2	–	bm	3	2	39	29	omr	omp	bm	*
	Spurn Head ...	1010·3	37	ENE	4	cq	1016·2	+2	42	+4	NE	4	–	cvq	4	–	42	40	c	c	bcq	0·0
	Yarmouth (Gorleston)	1006·5	41	NE	6	r	1013·4	+3	42	+1	NE	6	–	opq	6	8	42	40	or	or	orq.dp	0·0
	Clacton-on-Sea	1004·9	40	N	5	r	1013·8	+5	42	+1	NNE	4	–	r	3	18	42	38	org	org	org	0·0
	Nottingham ...	1011·7	36	N	4	b	1017·2	*	34	+1	N	3	N	bc	*	1	37	32	om	om.c	b	0·0
	Benson (Oxon.) ...	1008·9	36	N	5	o	1013·4	+2	36	+1	N	5	–	o	*	1	37	34	o	o	o	*
	Sth Farnborough	1007·6	38	N	5	o	1012·6	+3	39	+3	N	5	–	om	*	4	39	36	omr	o	om	0·0
	Salisbury Plain	1009·8	35	NNW	5	bq	1014·9	+2	33	-5	N	8	–	bcq	*	Trace	39	32		o.bq	b.bcq	*
	London (Kew Obsy.)	1006·9	39	N	4	cm	1013·1	+3	41	+3	NNE	5	–	o	*	6	41	36	omr	omr.cm	cm.o	0·0
NORTHERN EUROPE.	Spitsbergen ...	1001·8	-17	SSE	1	b	999·4	0	-8	-9	N	4	*	c	*	*	1	-20				
	Vardö	992·4	36	S	7	r	1009·1	+6	27	-7	–	0	–	b	2	*	30	21				
	Bodö	1005·8	34	W	2	o	1009·0	+3	30	-6	SSW	2	–	s	2	?	36	28				
	Christiansund ...	1008·2	32	–	0	b	1011·9	+3	36	-1	W	4	–	b	3	2	37	32				
	Skudesnaes ..	1010·0	36	W	2	c	1015·6	+3	34	-5	–	0	–	o	2	?	39	34				
	Færder (X'tania Fjord)	1010·0	37	WNW	2	b	1014·7	+1	39	-2	NW	1	–	c	1	–	41	37				
	The Scaw (Skagen)	1011·4	36	SW	1	b	1015·1	+2	36	-3	–	0	–	o	0	–	43	34				
	Blaavands Huk		36		1	f	1014·2	+1	36	-3	NE	1	–	r	*	2	41	32				
	Copenhagen ...	1014·0	37	–	0	c	1014·7	+1	39	0	SSW	3	–	m	*	6	39	37				
	Bornholm ...	1014·6	37	S	2	m	1016·0	0	37	-2	SSE	4	–	m	0	–	39	36				
FRANCE, &c.	The Helder ...	1006·7	39	ENE	2	r	1013·4	+4	39	+2	NE	1	–	o	1	12	39	37				
	C. Gris Nez ...	1002·4	40	SE	3	r	1011·5	+4	41	+1	ESE	3	*	o	2	11	43	40				
	La Hève	1003·6	40	NW	5	r	1007·4	*	39		ENE	4	*	r	4	26	43	40				
	Brest (St. Mathieu)	1011·9	43	N	5	c	1015·6	+1	2nd	-4	NNE	3	*	e	2	5	48	39				
	Rochefort (Ile d'Aix)	1008·3	45	NW	5	bc	1011·6	+3	37	-8	N	3	*	c	*	–	50	38				
	Biarritz	1010·4	44	SW	3	o	1010·0	0	39		E	2	*	bc	4	25	48	38				
	Paris	1003·2	41	SSW	3	o	1011·1	+5	39	0	SE	2	–	o	*	4	41	39				
	Belfort	1011·1	32	–	0	m	1015·6	*	30	+2	–	0	*	o	*	–	43	27				
	Lyons	1007·9	45	S	2	o	1011·9	*	36	+8	NW	2	*	o	*	–	46	35				
	Nice	1014·3	44	E	1	o	1009·8	-2	40	-1	E	2	*	r	3	3	50	38				
	Perpignan ..	1009·2	39	–	0	b	1007·0	-2	39	+3	W	2	–	r	*	16	48	37				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna																					
	Madrid	1010·8	44	–	0	r	1009·5	0	35		N	1	–	b	*	1	46	34				
	Lisbon	1013·9	52	NW	5	b	1014·0	0	46	+1	WNW	3	–	b	*	–	57	45				
	Azores (Horta) ...	1028·6	*	ESE	3	b	1029·1	+1	39	+4	NNE	5	*	b	3	1	68	57				
	Madeira	1019·2	63	N	3	o	1020·3	0	59	0	N	3	–	bc	3	–	66	59				
	Gibraltar	1009·5	54	W	6	b	1007·4	*	46		NW	5	*	b	3	23	59	45				
	Malta	*	*	*	*	*	1008·6	-3	59	+7	SE	5	–	o	2	3	59	52				
	Limassol	*	*	*	*	*	1022·3	+3	39	+13	–	0	–	b	0	–	54	34				
	Alexandria ...	1020·8	57	–	0	0	1021·8	+1	57	+7	NE	3	NW	bc	1	9	39	30				
	Cairo (Helwan) ...	1021·0	55	N	2	b	1023·7	+3	50	+4	–	0	–	b	*	–	64	43				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON — 10th DECEMBER, 9h. G.M.T.

	Humidity. 15 h. 9th	Humidity. 9 h. 10th	Sunshine for 9th	24 hours ended 9 h. 10th. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	86	94	0·0	40	35	27	6	or	or	or
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	99	92	0·0	41	37	37	5	d.or	od	od.or
CAMDEN SQ. (British Rainfall) ..	–	94	0·0	40	36	35	5	–	–	*
S. KENSINGTON (Museum Grounds)	*	91	0·0	41	39	*	*	or	or	or.od

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ... 9th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
34	1·2	4·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,473. TUESDAY, 11TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

The day was almost rainless over the whole country but sunshine measurements were very variable, from zero up to 6 hours at a few widely scattered stations and 7 hours at Penzance. Inland frost was common especially in the North. At Eskdalemuir the reading in the screen fell to 11° and day temperature yesterday did not exceed 23°.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 10TH DECEMBER.....

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 10TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	1	–	31	23	bc. b.	b.	4·5
	Montrose	–	–	33	25	bc.	b.	3·5
	St. Andrews	*	*	33	21	o	o	0·0
Eng. N.E.	Harrogate	–	–	35	30	b.	b.	4·5
	Skegness	Trace	–	42	32	bc.	b.	5·1
England, E.	Felixstowe	5	2	44	38	or	o. bc.	0·5
	Southend-on-Sea	10	–	44	36	o	o.c.bc.b.	0·5
England, S.E.	Margate	3	–	45	40	c.bc.	b.	4·6
	Hastings	20	–	44	38	or.bc.	bc.	2·4
	Eastbourne	9	–	44	38	o.c.	bc.b.	2·3
	Seaford	*	*	43	36	o	bc.o	1·8
	Worthing	6	–	44	38	c	bc.	0·3
	Littlehampton	*	*	43	40	o		1·4
	Bournemouth	–	–	42	35	o. bc.	o	2·5
Scotland W.	Oban	–	–	40	30	b.	b.	3·8
Eng. N.W.	Morecambe	–	–	35	27	*	*	6·1
	Southport	–	–	35	26	bc.c.b	b.	5·4
Midlands.	Malvern	–	–	40	30	cm.bc.	cm.	1·6
	Ross-on-Wye							
Wales.	Rhyl	–	–	34	25	bcf	fbcg	2·5
	Colwyn Bay	–	–	38	28	bc	c.	4·0
	Llandudno	*	*	40	28	b.	bm	4·4
	Aberystwyth	*	*	41	29	o.c.b.	bc.o.	6·0
England, S.W.	Weymouth	*	*	?	?	bc.c.	bcm.	2·0
	Torquay	–	Trace	43	35	c.o	op.	0·0
	Paignton	*	*					
	Penzance	2	–	45	37	b.	bc.	7·0
	Newquay	–	Trace	42	36	b.	b.o	5·3
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 10TH DECEMBER.....

	STATIONS.	Evening of 9TH: Barom. Millibars at M.S.L.	Evening of 9TH: Temp.	Evening of 9TH: Wind Direc.	Evening of 9TH: Wind Force 0–12.	Evening of 9TH: Weather.	Morning of 10TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1013·1	14	SSE	3	o									*	
	Hangö	1013·5	39	WSW	2	o	1019·4	+4	39	−2	WSW	1	o	1	*	36
	Yuriev															
	Petrograd	1015·1	28	SSE	4	o	1022·9	+4	28	+1	S	2	o	1	?	28
	Vijni Volotchok	1023·8	14	–	o	bc.	1026·9	+4	10		–	o	b	–		10
	Gorki	1021·0	14	–	o	bc.		*							*	
	Moscow	1023·0	23	E	2	b.	1034·6	+2	12	−6	–	o	b	–	*	10
	Kiev	1024·2	21	ESE	2	o	1028·0	+3	18	−3	S	1	o	–	*	18
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa	1023·7	18	NNE	3	b									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1017·1	37	NNE	1	o	1017·5	*	36	+6	NE	1	bc.	–	39	30
	Turin	1019·5	34	–	o	S	1019·1	*	34	+1	–	o	S	2	37	33
	Pesaro	1017·1	36	–	o	b	1018·1	*	35	+1	–	o	bc.	–	46	28
	Leghorn	1015·1	46	–	o	o	1013·1	*	46	+3	E	1	c.	4	52	45
	Rome	1017·0	46	E	1	o	1014·6	*	46	+7	E	3	o	–	50	46
	Viesti	1018·5	45	SSE	1	b	1018·9	*	45	0	SSE	1	b	–	52	43
	Brindisi	1018·5	48	SE	1	b.	1018·6	*	48	+3	SE	1	b	–	55	45
	Cagliari						1004·9	*	50	0	ESE	6	r	16	57	46
	Palermo						1011·3	*	55	+3	–	o	o	–	61	43
	Tripoli						1013·5	*	50	+4	SE	1	r	–		46
	Algiers	1008·7	48	SW	1	o	1001·7		46	−4	WSW	2	bc	–	54	46
Sweden.	Hernösand	1007·8	27	L	o	o	1017·0	*	18	−16	–	o	bc	*	*	*
	Stockholm	1011·1	34	SSW	2	b	1018·2	*	32	−5	S	2	f	*	*	*
	Wisby	1014·3	39	WSW	2	bc	1019·2	*	36	−3	SSE	2	o	*	*	*

Morning of 10TH.....

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	919	25	+6	NE	7	s
Reykjavik	822	39	+25	–	o	b
Vestmanna	859	39	+23	E	7	r
Seydisfjord	986	25	+22	NE	4	s
Thorshavn	1006·2	36	+8	S	6	o

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

11TH AND 12TH Dec., 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.56	11.46	3.37
	7.57	11.47	3.36
Greenwich	7.57	11.53	3.49
	7.58	11.54	3.49
Wick	8.54	12.5	3.16
	8.55	12.6	3.16
Valencia	8.41	12.34	4.27
	8.42	12.35	4.27

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF TUESDAY, 11TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈.

LOW

1005mb

1010mb

1015mb

1020mb

1025mb

29·83 ins

29·97 ins

30·12 ins

30·27 ins

29·68 ins

Barometer rising

HIGH

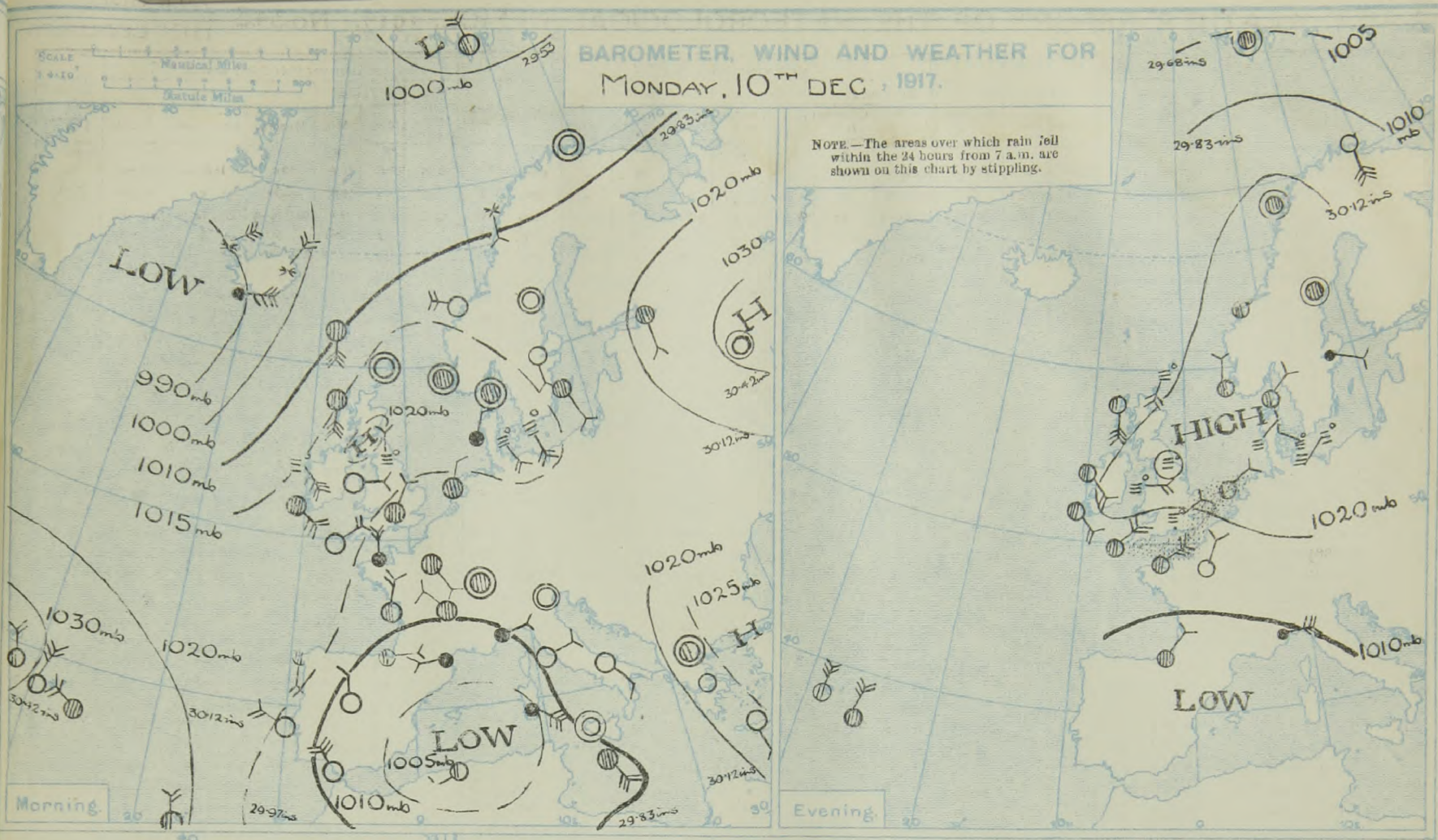
1030 mb

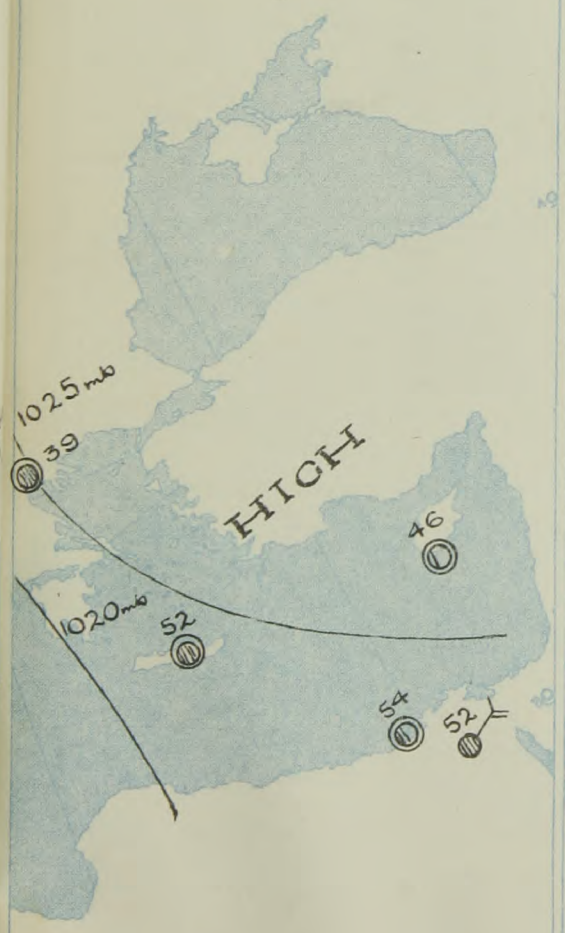
32°

40°

SCALE 1:2·10⁶
Nautical Miles 0 1 2 3 4 890
Statute Miles 0 1 2 3 4 800

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.





The Present Situation

The anticyclone which lay over the North Sea yesterday has grown more extensive. In its central regions pressure is now above 1030 mb. A depression which lies in the Iceland region is causing strong SW. winds between Faröe and Scotland while another depression lies to the southward of France. In the English Channel a fresh Easterly wind prevails but over England and Ireland winds are very light and inland mist is reported with low night temperatures.

The General Outlook

The barometer is rising decidedly in the South of England so that the anticyclone is likely to extend to the southward and give a quiet spell of weather over the whole of England and Ireland with low night temperatures and morning mist and fog. Scotland is likely to be more affected by the passage of depressions eastward in the Iceland region, and will experience milder SW. winds.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 345

TUESDAY
11TH DECEMBER

	STATIONS.	EVENING OF 10TH: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	MORNING OF 11TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 HOURS ENDED 7 A.M. 11TH: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 10TH. Hours.
BRITISH ISLANDS.	Lerwick ...	1019·0	41	SSW	4	bcm	1019·2	0	45	+15	SSW	4	-	om	4	0·3	45	26	bc	bcm	bcom	*
	Deerness (Orkney)	1018·6	39	SSW	4	c	1021·3	*	41	+5	S	3	-	bc	3	-	49	36	c/b	c	c.bc	3·2
	Stornoway ...	1017·4	44	S	6	bcq	1020·9	0	45	+4	SSW	7	-	oq	6	0·2	45	41	ov.oq	o.bcq	bc.oq	0·0
	Castlebay (Barra Isd.)	1018·7	45	SSW	5	0	1024·6	+1	47	+3	SW	4	-	odp	4	-	47	44	0	0	o.bcdp	0·0
	Glasgow ...	1023·8	29	ENE	1	bm	1029·1	+1	26	+1	SE	1	-	bf	*	-	31	24	bm.bcm	bcm.bm	bf	1·5
	Eskdalemuir ...	1025·3	19	-	0	b	1031·4	+2	13	-1	-	0	-	bx	*	-	23	11	b.bc.bv	bv.b	b.bx	6·4
	Malin Head ...	1019·3	38	S	4	bc	1026·2	+1	36	0	SSE	4	-	bm	3	-	41	35	bc	bc	bm	0·4
	Blacksod Point	1018·7	41	SE	3	c	1027·2	+2	41	+1	S	4	S	bc	4	-	44	38	cg	bc	bc.bc	*
	Valencia (Cahirciveen)	1018·9	43	ESE	3	c	1028·4	+4	34	-8	NE	2	-	bx	0	-	45	34	o.c	c	c.bc.bh	0·0
	Roche's Point	1020·3	38	E	1	b	1028·4	*	35	-1	N	1	-	b	1	0·3	44	34	o.c	bc.b	b.bc.b	*
	Birr Castle ...	1021·6	37	S	2	bcm	1020·6	*	34	+1	S	1	E	m	*	-	41	24	bcm	bcm	o	0·0
	Donaghadee ...	10	-	-	-	-	1028·2	+2	34	0	SW	2	-	f	1	-	43	31			bm.bf	*
	Liverpool (Bidston)	1022·8	36	NNE	2	m	1029·8	+3	33	+2	NNE	2	-	m	1	-	37	32	bm	bm	bm	0·4
	Holyhead ...	1021·9	38	E	3	bm	1029·0	+3	33	-1	-	0	-	bmx	0	-	40	31	b.bm	bm	bmx	6·0
	Pembroke (St. Ann's)	1019·0	39	NNE	3	b	1027·7	+4	39	+2	E	3	-	c	3	-	40	35	b	bc.b	bc.bg.c	6·6
	Hartland Quay	1018·4	42	NE	3	om	1027·9	+5	40	-1	NW	2	-	b	1	-	43	39	bc.bcq	od.og.c	om.b	*
	Scilly (St. Mary's)	1016·2	44	ENE	4	c	1025·7	+7	44	+2	E	3	E	-	4	-	46	41	bc	bc.c	bc	5·5
	Falmouth ...	1016·0	38	NE	4	bg	1026·7	+6	39	+5	NE	4	-	b	*	3	45	32	b.bc	c.oc.bg	bc.or.b	3·8
	Jersey (St. Aubin)	1012·8	44	ENE	5	o	1022·9	*	45	+3	NE	5	-	b	4	1	47	40	o.c.op	o.c.op.o	b	0·8
	Portland Bill ...	1015·3	43	ENE	6	o	1026·2	+4	41	+5	ENE	5	NE	bc	4	-	44	35	bc	bc.c	bc	*
	Dungeness ...	1018·0	43	E	4	b	1026·3	+6	43	+1	E	5	E	b	4	-	45	42	c.b	b		*
	Dover	*	*	*	*	*													*	*		
	Wick	1019·2	40	SSW	3	c	1022·6	+2	41	+4	SSW	3	-	c	3	-	41	36	bcm	bcm	bcm	*
	Nairn	1019·3	34	-	0	bc	1024·2	*	38	+14	-	0	-	bc	0	-	38	24	bc	bc	bcx	0·6
	Aberdeen ...	1022·2	32	SSW	2	bg	1025·1	+1	30	+5	-	0	-	b	2	-	35	24	bc.bg	bg	bg	2·9
	Leith	1022·8	30	SW	1	b	1028·1	+1	29	+3	W	1	-	b	1	-	33	25	bg.bm.b	bg.b	b.bg.b	*
	Tynemouth ...	1023·1	34	-	0	bm	1029·6	+1	23	-7	W	2	-	bm	3	-	36	23	bcm	bm	bm	*
	Spurn Head ...	1022·5	42	ENE	3	bcv	1029·3	+2	39	-3	ENE	1	-	bcx	4	-	43	33	bcv	bcv	bcvx	0·0
	Yarmouth (Gorleston)	1020·1	43	ENE	4	o	1027·3	+3	42	0	E	3	-	bc	3	-	44	40	c	o	bc	0·0
	Clacton-on-Sea	1019·8	41	N	2	bc	1027·3	+3	40	-2	NNE	3	NE	c	3	3	44	37	og.r.c	c.bcm	bc.bmc	1·0
	Nottingham ...	1022·2	38	NE	3	b	1030·0	*	28	-6	E	1	-	b	*	-	40	27	bc.b	b	b.bc	3·9
	Benson (Oxon.) ...	1019·6	40	NNE	3	o	1028·2	+5	35	-1	NNE	3	-	om	*	0·2	40	35	om	o	om	*
	Sth Farnborough	1019·4	37	ENE	2	bm	1028·2	+7	34	-5	NE	2	-	bm	*	1	41	34	bc	bc	bm.bm	0·0
	Salisbury Plain	1019·0	38	NE	4	bc	1027·9	+7	38	+5	NE	4	-	o	*	Trace	39	32	o	cg	bc.c.o	*
	London (Kew Obsy.)	1019·5	41	ENE	2	om	1027·9	+4	38	-3	ENE	1	E	bc	*	1	43	36	add or om	om	om.bfm	0·0
NORTHERN EUROPE.	Spitsbergen ...	1005·0	-4	-	0	o	1007·8	-2	-15	+6	SE	4	*	b	*	*	-4	-17				
	Vardö	1012·6	25	S	6	b	1015·4	0	28	+1	N	6	-	S	4	*	27	25				
	Bodö	1020·6	34	-	0	o	1013·4	-8	28	-2	SE	2	-	S	2	-	30	21				
	Christiansund ...	1021·8	34	NNW	2	c	1017·8	-1	41	+5	SW	1	-	o	3	1	36	32				
	Skudesnaes ..	1017·2	32	NNE	1	c	1027·6	+3	34	0	SSE	4	-	c	2	-	34	32				
	Færder (X'tianiaFjord)	1023·2	30	NNE	4	o	1028·3	+1	27	-12	ENE	2	-	o	1	-	39	27				
	The Scaw (Skagen)	1020·0	36	NE	2	bc	1027·2	+2	36	0	NNE	2	E	o	2	-	39	34				
	Blaavands Huk	1021·9	30	NE	1	f	1028·0	+2	30	-6	ENE	2	-	b	*	Trace	37	28				
	Copenhagen ...	1018·0	37	WNW	1	m	1024·4	+3	37	-2	NE	4	-	o	*	1	39	26				
	Bornholm ...	1018·2	36	SW	3	m	1023·2	+3	34	-3	SE	4	-	o	o	1	37	32				
FRANCE, &c.	The Helder ...	1021·1	41	NE	2	b	1027·8	+3	36	-3	E	1	-	r	o	Trace	41	36				
	C. Gris Nez ...	1018·7	36	E	2	b	1024·8	+3	39	-2	ENE	3	*	b	4	-	43	34				
	La Hève	1016·6	39	SE	2	b	1021·5	*	36	-3	NE	4	*	b	2	-	48	36				
	Brest (St. Mathieu)	1012·6	44	NE	3	o	1022·4	+3	41	0	ENE	3	*	b	2	1	45	36				
	Rochefort (Ile d'Aix)	1011·6	39	NE	3	c	1015·5	+2	37	0	NE	5	*	o	*	1	45	40				
	Biarritz	1008·0	41	NE	2	o	1011·1	+3	39	0	NE	2	*	f	2	1	46	38				
	Paris	1015·6	37	NNE	2	bc	1020·4	+3	36	-3	NE	4	-	b	*	-	41	34				
	Belfort							*					*		*							
	Lyons							*					*		*							
	Nice	1008·6	44	E	6	r	1012·3	+1	51	+11	E	5	*	o	7	8	50	42				
	Perpignan ..	1006·2	39	NW	4	r	1010·7	+5	39	0	WNW	3		r	*		41	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1012·6	46	-	0	bc	1015·2	+3	39		-	0		c	3	Trace	50	36				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira	1016·7	63	N	3	c	1009·4	-2	57	-2	N	3	-	r	3	1	66	57				
	Gibraltar	1008·4	49	NW	4	b	1007·4	*	46	0	NW	3	*	b	3	-	53	43				
	Malta	*	*	*	*	*	1013·2	-5	57	-2	SW	3	-	b	1	1	61	51				
	Limassol	*	*	*	*	*	1027·2	0	46	+7	-	0	-	b	0	-	57	37				
	Alexandria ...	1025·2	54	-	0	b	1024·2	0	54	-3	-	0	-	c	0	-	66	50				
	Cairo (Helwan) ...	1023·4	54	NE	2	b	1023·5	+1	52	+2	ENE	3	W	o	*	-	?	54				

LONDON 11TH DEC. ....9h. G.M.T.	Humidity. 15 h. 10TH	Humidity. 9 h. 11TH	Sunshine for 10TH	24 Hours ended 9 h. 11TH: Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	87 %	95 %	0·3 Hours.	43 °F.	36 °F.	27 °F.	1 mm.	o, c	bc, b	bm
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	89	89		45	37	31	1	or	rm	m
CAMDEN SQ. (British Rainfall) ..	93	98	0·0	43	34	28	t	or	o	*
S. KENSINGTON (Museum Grounds)	*	87	0·0	43	37	*	*	or.ol	cm, bm	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ..10TH.....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
60	2·1	12

The thermometers at Greenwich and Camden Square are in Glaisher screens.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,474 Wednesday, 12th DECEMBER ... 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

As on the preceding day little rain was reported from any part of the British Isles. Sunshine amounts were variable; 6·8 hours was measured at Jersey and over 6 hours at some other southern stations. Temperature did not rise above the freezing point at Nottingham throughout the 24 hours but in most districts 45° was touched.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 11th. DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 11h.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	–	–	46	26	bc. c	c. bc	2·1
	Montrose	–	–	41	30	b	bc	2·5
	St. Andrews							
Eng. N.E.	Harrogate	–	–	39	26	b	b	5·7
	Skegness	–	–	39	28	bc	b	0·7
England, E.	Felixstowe	–	–	44	36	bc	bc	6·3
	Southend-on-Sea	–	–	44	35	o.c.bc.b	b	5·0
England, S.E.	Margate	–	1	45	41	c. bc	or	0·9
	Hastings	–	–	45	36	bc. b	bc. o	4·5
	Eastbourne	Trace	–	45	34	bc. b	b. bc	3·7
	Seaford	*	*	44	35	b	c	3·5
	Worthing	–	–	44	35	bc	bc	4·2
	Littlehampton			42	34	*	*	4·0
	Bournemouth	–	–	43	34	b	b	6·5
Sc'tld W.	Oban	–	–	43	34	0	0	0·0
Eng. N.W.	Morecambe	–	–	34	25	*	*	1·0
	Southport	–	–	35	26	bzx. bcz	bcz. c. of	1·0
Midlands.	Malvern	–	–	40	32	b. bc	bc. b	5·0
	Ross-on-Wye	–	–	42	31	bcm	bcm	4·3
Wales.	Rhyl	–	–	41	25	f	f	4·1
	Colwyn Bay	–	–	43	29	bc	bc	4·4
	Llandudno	*	*	42	29	b	bc	3·9
	Aberystwyth	*	*	43	32	o.c.b	bc.c	5·0
England, S.W.	Weymouth	*	*	45	36	bz	bz	6·5
	Torquay	1	–	47	38	c.b	b	4·4
	Paignton	*	*	45	39	o	bc	4·1
	Penzance	Trace	–	46	39	o. c	bc. b	4·0
	Newquay	–	–	44	34	b	b	6·4
	Ilfracombe	–	–	44	37	bc	bc	4·3

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 11th DECEMBER.....

	STATIONS.	Evening of 10th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	Morning of 11th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1025·9	28	S	3	0	1026·6	0	28	+1	SW	3	0	–	*	25
	Hangö	1025·2	38	SSW	4	0	1029·6	0	37	-2	–	0	0	–	*	36
	Yuriev															
	Petrograd	1029·1	27	SSE	3	0	1032·3	+2	18	-10	SE	2	0	–	28	18
	Vijni Volotchok	1032·7	9	–	0	b	1035·8	+4	3	-7	–	0	b	–	*	3
	Gorki	1030·7	27	–	0	0	1033·1	*	23	+2	–	0	b	–	*	23
	Moscow	1032·4	14	NW	1	b	1035·5	+1	10	-2	NE	2	b	–	*	5
	Kiev	1031·0	23	E	2	0	1032·7	+1	23	+5	ENE	2	0	–	*	21
	Kharkov	1029·2	25	ENE	2	0	1031·3	+1	21	-7	NE	1	0	–	*	21
	Kishinev	1029·1	19	NW	1	0	1030·7	+2	27	+17	–	0	0	–	*	10
	Elisabetgrad	1029·2	27	NNE	3	0	1031·1	+2	25	+4	NE	2	0	–	*	23
	Nicolaiev	1027·3	28	NNE	2	0	1029·9	*	27	+2	NE	3	0	–	*	28
	Odessa	1028·0	36	N	3	0	1030·7	+2	27	+8	ENE	3	0	–	*	27
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1018·9	41	ME	1	bc	1019·4	*	41	+5	NE	2	r	1	46	36
	Turin	1020·2	37	–	0	r	1021·5	*	37	+3	–	0	r	17	41	36
	Pesaro	1017·7	37	N	1	bc	1016·7	*	41	+6	SSE	1	r	1	43	36
	Leghorn	1011·7	50	E	1	0	1012·7	*	50	+4	E	1	c	4	52	46
	Rome	1011·5	55	E	3	0	1012·3	*	50	+4	N	1	0	2	54	50
	Viesti	1018·1	54	SSE	4	0	1015·3	*	54	+9	SE	4	r	8	54	52
	Brindisi	1017·9	54	E	2	c	1017·1	*	55	+7	E	2	0	?5	55	52
	Cagliari						1004·9	*	48	-2	WNW	5	r	8	55	50
	Palermo	1008·5	54	ENE	3	0	1010·9	*	54	-1	ENE	1	b	3	57	46
	Tripoli	1011·9	46	SE	1	b	1016·2	*	45	-5	S	1	b	Trace	?	43
	Algiers	999·5	52	W	4	c	1007·3	+5	45	-1	SSW	6	r	4	57	43
Sweden.	Hernösand	1021·1	27	–	0	0	1028·3	*	10	-8	–	0	bc	*	*	*
	Stockholm	1022·7	38	ESE	2	r	1029·7	*	36	+4	E	2	f	*	*	*
	Wisby	1022·1	37	SSE	2	0	1028·4	*	37	+1	SE	2	f	*	*	*

ICELAND.	Morning of 11th: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
		°F	°F			
Isafjord	993·5	18	-7	NE	4	0
Reykjavik	984·7	34	-5	W	5	c
Vestmanna	988·2	36	-3	SW	9	0
Seydisfjord	994·0	32	+7	SW	4	c
Thorshavn	1003·8	42	+6	SW	4	0

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

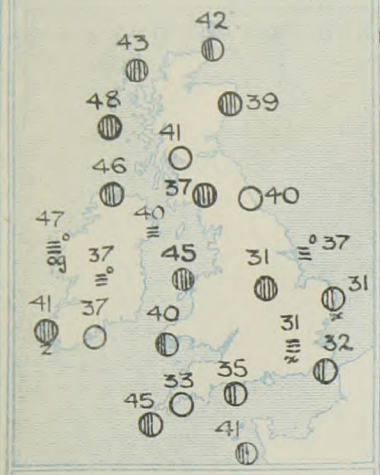
12th and 13th Dec., 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.57	11.47	3.36
	7.58	11.47	3.36
Greenwich	7.58	11.54	3.49
	7.59	11.54	3.49
Wick	8.55	12.6	3.16
	8.56	12.6	3.16
Valencia	8.42	12.35	4.27
	8.43	12.35	4.27

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD. Fetter Lane, London, E.C.4, and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF WEDNESDAY 12TH DECEMBER, 1917.

TEMPERATURE WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

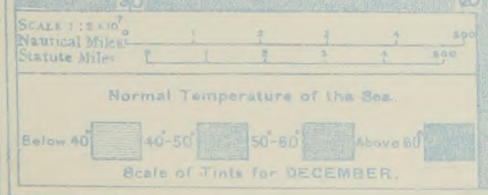
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

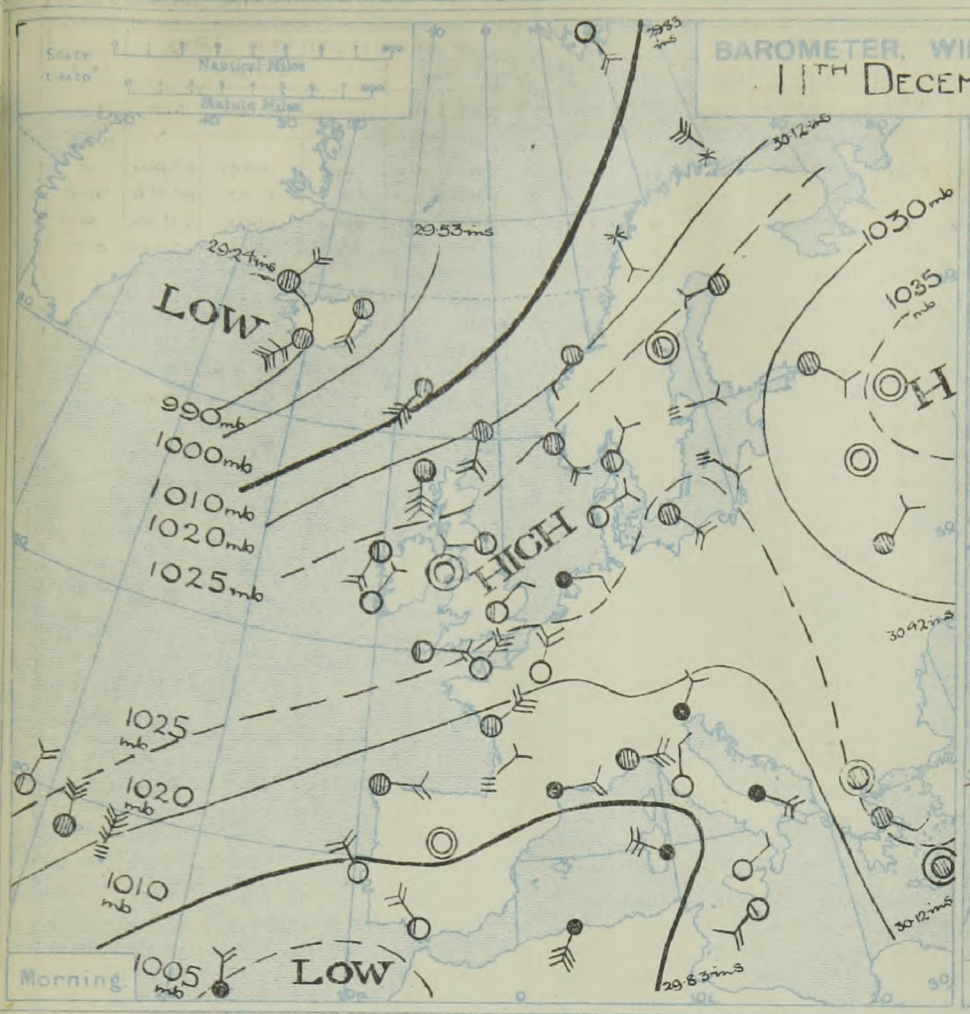
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

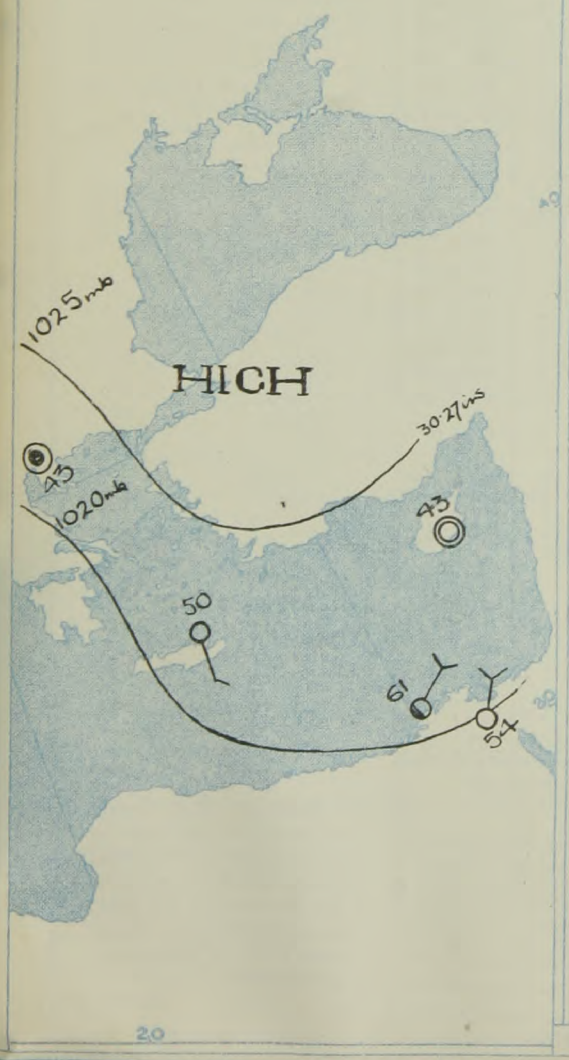
WEATHER.—Shown by the following symbols:—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊤, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈.



LOW
29·21 ins
980 mbs
29·09 ins
985 mb
29·24 ins
990 mb
29·38 ins
995 mb
29·53 ins
1000 mb
29·68 ins
1005 mb
29·83 ins
1010 mb
29·97 ins
1015 mb
30·12 ins
1020 mb
1025 mb
1030 mb
Barometer slightly falling
Barometer steady
HIGH
30·42 ins
30·27
30·12 ins
29·97 ins
40°
32°
50°
LOW





The Present Situation

A deep depression is centred near Spitzbergen and is causing a gradient for strong W. winds from that region to the North of Scotland. The anticyclone which has been over the British Isles for some days is now centred to the southward of Ireland but all Ireland, England and the Southern North Sea lie under its influence and are experiencing light breezes, cloudy or overcast skies and misty weather. Pressure remains low over the Western Mediterranean, and a NE. wind current is blowing over France. A SW. wind has set in over Scotland and the low temperatures experienced there of late have given place to milder conditions. Rain is reported at only one or two isolated stations in the whole area from which reports are received.

The General Outlook

Changes are generally slight. A slight fall of pressure on our north-western coasts probably indicates the presence of a depression over the NE. Atlantic, but it is unlikely that it will affect the British Isles to any great extent. Anticyclonic conditions will continue to prevail in England.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 346. [12TH DECEMBER.

Wednesday,

	STATIONS.	EVENING OF ...11th... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Force 0-12.	Weather.	MORNING OF ...12th... Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ...12th... Rainfall. Millimetres.	Temp. Max.	Min.	Weather. Morning.	Afternoon.	Night.	Sunshine for 11th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·6	47	SW	5	om	1019·6	+3	42	-3	NW	5	N	cq	4	3	47	40	oin	oinp	o.cplq	*
	Deerness (Orkney)	1017·9	45	SW	5	or	1022·3	*	41	0	W	4	-	b	3	3	45	40	c	c.or	or.c.b	0·0
	Stornoway ...	1020·9	47	W	6	opdq	1023·3	-2	43	-2	SW	2	-	o	1	1	49	41	opdq	opdq	o.c.oz	0·0
	Castlebay (Barra Isd.)	1024·9	49	WSW	4	opd	1028·2	0	48	+1	SW	3	-	c	3	Trace	49	46	opd	.opd	opd.c.o	0·0
	Glasgow ...	1027·9	38	SW	2	oin	1028·5	+1	41	+15	WSW	2	-	bin	*	0·3	44	28	f	ef.oin	omp.bin	0·0
	Eskdalemuir ...	1029·1	30	S	2	om	1029·1	0	37	+24	SW	4	-	o	*	0·2	38	11	bx.cmx	om.bcm	om.o	0·3
	Malin Head ...	1027·2	43	SSW	3	oin	1028·7	0	46	+10	SW	3	S	cin	3	0·3	46	36	bc	oin	cin	0·2
	Blacksod Point	1029·8	46	SSW	4	oing	1029·4	-2	47	+6	SW	3	-	oing	4	-	48	40	bcz	cm	ef.bcm	*
	Valencia (Cahirciveen)	1033·0	38	NE	1	cz	1033·8	0	41	+7	E	1	-	oz	4	-	44	33	c.bc.bz	bc.cz	c.oz	2·7
	Roche's Point	1032·9	38	ESE	2	b	1033·9	*	37	+2	NNW	1	-	b	1	0·3	42	34	om	oin.c	bmx	*
	Birr Castle ...	1032·3	33	SW	1	m	1032·2	*	37	+3	SW	1	-	in	*	-	37	23	cz	czx	zx	2·5
	Donaghadee ...	1028·2	37	WSW	4	ef	1029·4	+1	40	+6	WSW	2	-	bef	2	-	41	32	bef	bef.ef	bef.ef	*
	Liverpool (Bidston)	1031·0	39	-	0	c	1031·0	0	39	+6	SW	2	W	6	2	-	41	33	b	b.bc	om	4·1
	Holyhead ...	1030·8	44	N	4	bm	1031·1	0	45	+12	W	4	-	oin	2	Trace	47	31	b.bc.cin	bc.c.b	b.bc.c	2·5
	Pembroke (St. Ann's)	1032·4	37	N	1	b	1032·9	0	40	+1	NNE	1	-	c	1	-	43	36	c.bc	bc.c.b	b.bc.c	2·4
	Hartland Quay	1031·9	40	ENE	2	b	1033·0	0	39	-1	ESE	2	-	bz	1	-	44	37	b.o.bz	bz	oz.bz	*
	Scilly (St. Mary's)	1031·0	41	NE	1	cc	1033·2	0	45	+1	ENE	2	-	cm	3	-	46	39	cm.om	om.c.bc	bcm.cm	4·1
	Falmouth ...	1030·9	38	NNW	2	bz	1032·5	0	33	-6	NNW	2	-	b	*	-	44	31	b.bc.o	c.b.bz	b.bx	1·6
	Jersey (St. Aubin)	1027·1	44	NE	5	b	1030·9	*	41	-4	E	4	-	c	4	-	48	40	b	b	bc	6·8
	Portland Bill ...	1028·8	41	ENE	3	b	1031·7	0	35	-7	NNE	2	-	bc	2	-	45	33	bc.b	bc.b	bc.c	*
	Dungeness ...	1028·1	41	ENE	5	c	1030·6	0	32	-11	NW	3	-	bc	3	0·2	45	31	bc	bc.cp	bcp.o.c	*
	Dover	*	*	*	*	*											*	*				
	Wick	1020·2	42	SW	3	omg	1023·4	+3	38	-3	SW	2	-	bcm	2	-	45	?	c.oing	bc.oing	eg.bcm	*
	Nairn	1022·5	43	SSW	3	ou	1025·6	*	40	+2	W	1	-	bc	1	-	42	37	bcmg	omg	o.cq	0·6
	Aberdeen ...	1021·6	42	SSW	3	bc	1026·3	+1	39	+9	SW	2	-	o	2	-	44	28	bxz.bc	bc.cz	bc.o	1·6
	Leith	1026·9	40	W	2	o	1027·0	0	43	+4	W	2	-	o	2	0·3	44	29	bz.bc.c	c.oin.o	eg.op.o	*
	Tynemouth ...	1028·9	35	W	2	cmg	1027·7	+1	40	+17	NW	3	-	b	3	-	40	26	cin	cin	bm	*
	Spurn Head ...	1031·2	38	N	1	bm	1029·7	-1	37	-2	NW	2	-	m	4	-	39	36	cm	bcm	cimx	0·5
	Yarmouth (Gorleston)	1029·4	37	NNE	2	bc	1028·5	-2	31	-11	WNW	3	-	bcmx	2	-	46	30	bc	bc	bcm	1·7
	Clacton-on-Sea	1029·9	38	NNW	3	c	1030·4	0	32	-6	NW	2	-	bc	1	-	44	31	c.bcz	bc.cz	cz.bc.b	3·5
	Nottingham ...	1031·3	29	-	0	f	1030·3	*	31	+3	WSW	1	-	ox	*	-	32	24	bmx	bfx	fx.cm	0·0
	Benson (Oxon.) ...	1031·4	29	NE	1	b	1031·1	0	29	-6	-	0	-	o	*	0·1	41	24	oin.b	bc	b.omx	*
	Sth Farnborough	1031·1	33	N	3	bin	1031·9	0	30	-4	NW	2	-	omx	*	-	40	26	m.b.o.bc	c.bm	bin.omx	1·8
	Salisbury Plain	1031·5	31	NNE	3	bc	1032·3	0	30	-8	NNW	3	-	o	*	-	40	27	bc	bc	b.ox	*
	London (Kew Obsy.)	1031·1	36	N	2	b	1031·3	0	31	-7	-	0	-	ofx	*	-	41	29	bcmx.bm	bm, b	b.efx	1·7
NORTHERN EUROPE.	Spitsbergen ...	9946·6	-8	S	1	m	9802	+3	?		SE	2	*	bc	*	*	-8	?				
	Vardö	1006·2	23	S	S	S	9967	-2	32	+4	SW	4	-	o	S	*	28	18				
	Bodö	1002·8	41	SW	6	r	9967	-1	37	+9	SW	2	-	r	3	6	41	27				
	Christiansund ...	1009·6	46	SW	3	o	1007·0	+1	41	0	WSW	4	-	o	S	8	48	41				
	Skudesnaes ..	1024·0	39	SE	S	o	1018·2	0	43	+9	W	6	-	c	4	3	43	36				
	Færder (X'tiania Fjord)	1026·6	28	WSW	4	e	1016·8	-3	43	+16	SW	6	-	o	3	-	36	27				
	The Scaw (Skagen)	1028·2	36	-	0	c	1022·3	-4	36	0	SW	3	-	r	3	-	39	36				
	Blaavands Huk	1029·5	36	NNE	1	o	1027·6	-3	41	+11	W	2	-	bc	*	-	39	28				
	Copenhagen ...	1028·2	37	NNE	2	o	1026·6	+1	37	0	-	0	-	o	*	-	39	36				
	Bornholm ...	1026·7	36	ESE	3	m	1024·3	-3	36	+2	ESE	2	-	o	0	-	37	32				
FRANCE, &c.	The Helder ...	1028·6	39	N	1	c	1028·4	0	34	-2	N	1	-	c	0	-	39	34				
	C. Gris Nez ...	1027·9	38	ENE	3	b	1030·8	0	40	+1	N	2	*	o	2	-	39	32				
	La Hève	1026·6	38	ENE	2	bc	1030·3	*	33	-3	ENE	2	*	bc	2	-	48	30				
	Brest (St. Mathieu)	1027·5	46	NE	5	b	1031·1	0	40	-1	NE	2	*	o	2	-	48	39				
	Rochefort (Ile d'Aix)	1021·4	39	ENE	6	bc	1027·1	+1	35	-2	ENE	6	*	o	*	-	46	36				
	Biarritz	1017·9	45	E	1	o	1024·0	+2	44	+5	NNE	3	*	m	4	-	46	41				
	Paris	1026·0	36	NNE	3	o	1030·3	+1	30	-6	NNE	2	NW	b	*	-	37	30				
	Belfort	1024·4	26	E	6	m	1027·8	*	28		E	5	*	m	*	-	30	25				
	Lyons	1021·5	32	-	0	b	1026·6	*	30		NNE	2	*	o	*	-	40	29				
	Nice	1013·4	52	-	0	e	1012·7	-8	44	-7	-	0	*	b	3	-	57	41				
	Perpignan ..														*							
	Sanguinaire ...	1011·6	48	SE	3	r	1013·5	*	50		SE	2	*	o	4	6	54	48				
SOUTHERN STATIONS.	Corunna	1016·2	52	NE	5	bc	?1025·5	+2	52	+13	NE	4	-	bc	2	?	54	52				
	Madrid	1013·1	39	NNE	1	b	1025·1	+4	36	+9	NE	2	-	b	*	-	41	37				
	Lisbon																					
	Azores (Horta) ...		*										*									
	Madeira																					
	Gibraltar	1010·5	54	E	6	b	1013·9	*	56	+10	E	7	*	bc	4	-	56	44				
	Malta	*	*	*	*	*	1018·3	+1	55		SSW	1	-	o	1	-	63	54				
	Limassol	*	*	*	*	*	1021·6	0	43	-3	-	0	-	b	0	-	61	36				
	Alexandria ...	1022·9	56	-	0	bc	1021·3	0	61	+7	ENE	2	-	bc	0	-	65	34				
	Cairo (Helwan) ...	1020·7	54	-	0	b	1020·0	+2	54	+2	NE	2	-	b	*	-	63	50				

LONDON 12th DECEMBER, 9h. G.M.T.	Humidity. 15 h. 11th.	Humidity. 9 h. 12th.	Sunshine for 11th.	24 Hours ended 9 h. ...12th... Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	77	83	1·5	41	28	22	-	b	b	bx
CITY (Bunhill Row)	*	*	0·7	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	78	84	0·4	43	29	27	-	b	b	bm
CAMDEN SQ. (British Rainfall) ..	81	82	1·3	41	29	25	-	o	bc	*
S. KENSINGTON (Museum Grounds)	*	84		43	30	*	*	bmx.c	bm	bm.om

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ...11th...

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
150	5·2	13

The thermometers at Greenwich and Camden Square are in Glaisher screens.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,475 Thursday, 13th DECEMBER, 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

3 to 4 millimetres of rain fell in the North and West of this country but in the south conditions remained rainless. Little or no sun shine was recorded. A general rise of temperature has occurred. The maxima recorded yesterday reached 50 in many parts.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 12th DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 12h
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	2	47	38	c.o	or.o	0.0
	Montrose	-	2	45	39	o	o	0.0
	St. Andrews	*	*	45	28	o	op	0.0
Eng. N.E.	Harrogate	-	Trace	43	31	bc	bc.o	3.2
	Skegness	-	-	36	26	bc	b	0.9
England, E.	Felixstowe	-	-	36	30	bcm	bcm	0.8
	Southend-on-Sea	-	-	38	29	bm.f	bf	0.0
England, S.E.	Margate	1	-	39	33	c.o	om	0.0
	Hastings	1	-	38	32	or.bc.b	bc	2.9
	Eastbourne	-	-	42	29	bc.o	o.c	0.2
	Seaford	*	*	41	29	o	o.b	0.6
	Worthing	-	-	38	29	o	o	0.2
	Littlehampton							
	Bournemouth	-	-	41	29	o.bc	bc.b	2.1
Scotland, W.	Oban	Trace	5	49	34	or	or	0.0
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	44	31	o.c.o	oe.o	0.0
Midlands.	Malvern	-	-	43	31	b.bc	bc.b	3.0
	Ross-on-Wye	-	-	43	24	mx.bc	b.bc	2.3
Wales.	Rhyl	-	-	44	?35	gx	gx.p	0.0
	Colwyn Bay	-	-	48	37	c	c	0.0
	Llandudno	*	*	47	41	o	o	0.0
	Aberystwyth	*	*	46	33	o.c	c.o	0.2
England, S.W.	Weymouth	*	*					
	Torquay	-	-	42	32	bcm	bm	0.4
	Paignton	*	*					
	Penzance	-	-	47	33	bc.c	bc	2.0
	Newquay	-	-	45	31	c	c	1.2
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 12th DECEMBER.....

	STATIONS.	Evening of 11th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	Morning of 12th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia, 7 a.m. and 9 p.m. Local Time.	Archangel	1026.7	20	SW	3	o									*	
	Hangö	1031.1	36	SSW	2	o	1027.5	+2	34	-3	WSW	3	o	~	*	32
	Yuriev															
	Petrograd	1034.6	9	SSW	2	b	1031.9	-3	3	-15	SE	2	b	-	21	3
	Vijni Volotchok	1035.1	0	-	0	b	1036.6	-2	-6	-9	-	0	b	-		-6
	Gorki							*							*	
	Moscow						1036.6	-2	12	+2	ENE	1	o	~	*	7
	Kiev						1031.3	-1	7	-16	E	S	b	~	*	21
	Kharkov	1031.3	23	NE	2	S	1031.6	o	19	-2	NE	2	o	~	*	19
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015.8	44	NNE	1	o	1011.7	*	43	+2	NE	1	r	11	46	39
	Turin	1018.1	39	-	o	bc	1014.2	*	35	-2	-	o	c	-	43	?33
	Pesaro	1012.6	46	N	1	r	1012.2	*	45	+4	-	o	o	11	48	41
	Leghorn	1012.9	50	-	o	o	1012.5	*	46	-4	-	o	o	3	55	43
	Rome	1013.3	46	NE	1	bc	1014.2	*	41	-9	N	1	r	18	54	37
	Viesti	1014.3	54	SSE	1	c	1013.1	*	?		SE	1	bc	2	54	50
	Brindisi	1014.7	54	E	S	b	1015.5	*	52	-3	S	S	b	2	55	50
	Cagliari	1008.0	50	E	3	bc	1015.5	*	46	-2	NW	3	b	~	57	43
	Palermo	1012.9	52	E	4	b	1017.1	*	55	+1	E	2	c	S	63	40
	Tripoli						1020.1	*	46	+1	S	2	b	~	?	43
	Algiers	1014.8	48	WSW	1	bc	1019.2	+2	48	+3	-	o	b	-	54	46
Sweden.	Hernösand	1022.3	27	S	4	b	1011.8	*	32	+22	SE	4	S	*	*	*
	Stockholm	1029.1	36	S	2	f	1022.4	*	34	-2	S	4	o	*	*	*
	Wisby	1030.0	37	SSE	2	o	1025.2	*	32	-5	S	2	o	*	*	*

Morning of 12th:

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Weather.
		°F	°F			
Isafjord	1000.3	21	+3	-	o	o
Reykjavik	992.3	26	-8	E	9	5
Vestmanna	998.8	30	-6	NE	7	5
Seydisfjord	1006.6	16	-16	-	o	c
Thorshavn	1011.3	32	-10	SW	2	o

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

13th and 14th Dec., 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.58	11.47	3.36
	7.59	11.48	3.36
Greenwich	7.59	11.54	3.49
	8.0	11.55	3.49
Wick	8.56	12.6	3.16
	8.57	12.7	3.16
Valencia	8.43	12.35	4.27
	8.44	12.36	4.27

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By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF THURSDAY, 13TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◍ sky ¾ clouded. ● overcast sky. ⊗ rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊤ϟ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

LOW

980mb

985mb

990mb

995mb

1000mb

1005mb

1010mb

1015mb

1020mb

1025mb

1030mb

HIGH

LOW

Bar.

falling

Barometric changes

29·38 ins

29·53

29·68 ins

29·83 ins

29·97 ins

30·12 ins

30·27 ins

30·42 ins

50°

40°

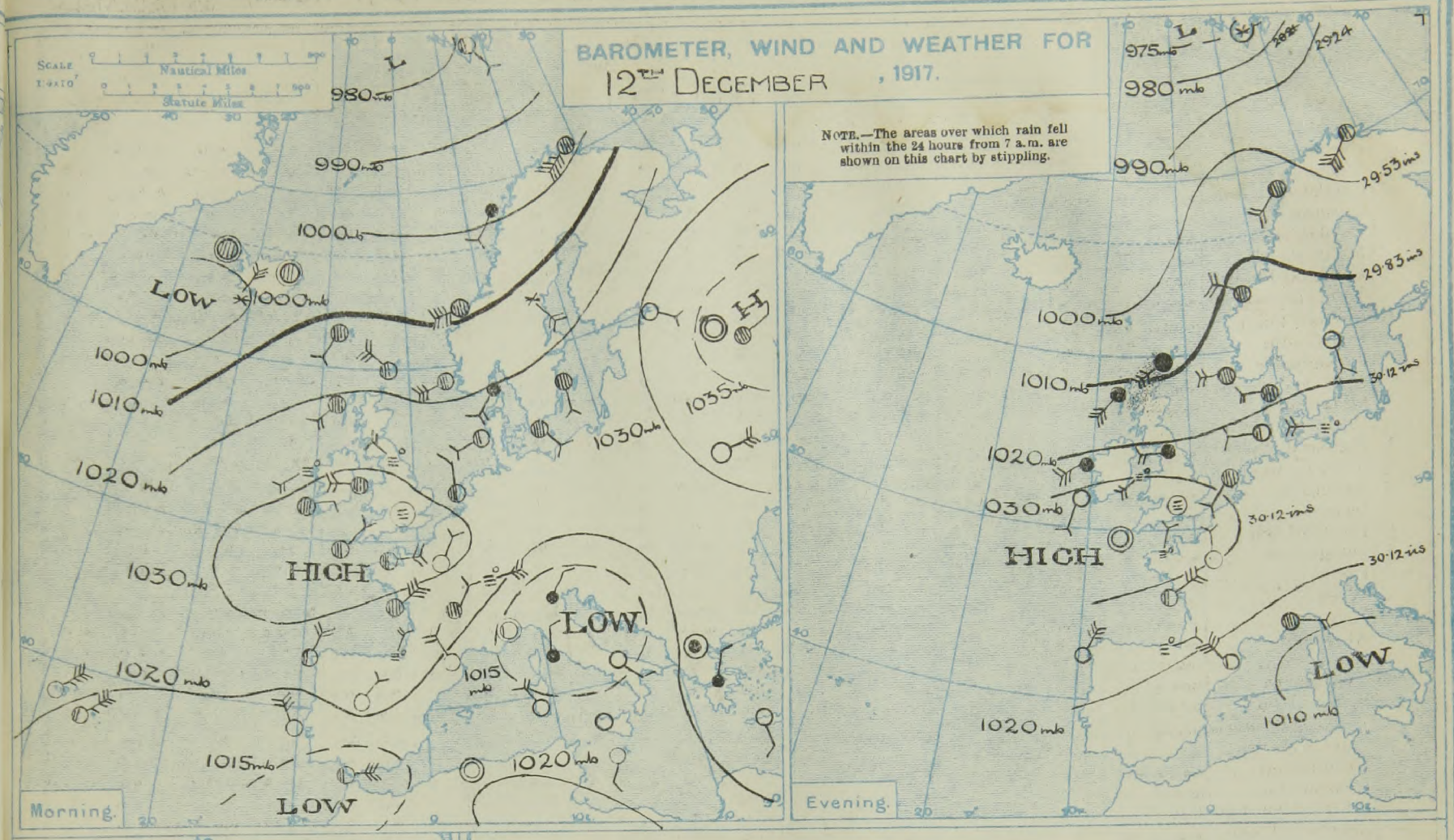
32°

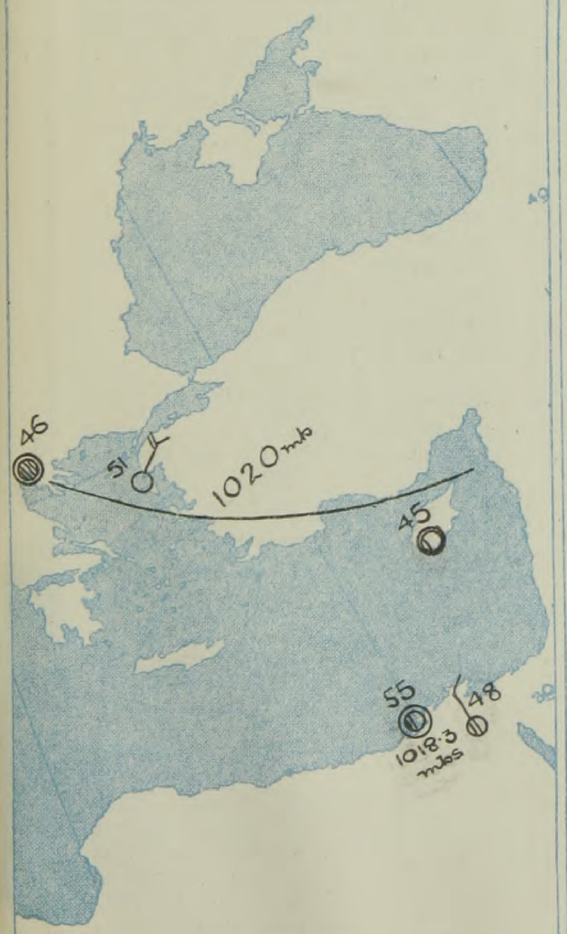
Scale 1 : 2×10⁷
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.





The Present Situation

A deep depression lies to the north of Spitzbergen and another is situated between Iceland and the Norwegian coast. The anticyclone which was situated over England for some days has moved a little further southward and now covers the Bay of Biscay, and Central France. Relatively low pressure persists in the Western Mediterranean. Strong Westerly winds prevail over the Northern North Sea and between the Faröes and Scotland, while over England and Ireland a moderate Westerly current is blowing. A generally mild type of weather has set in. No rain is reported over this country but at many stations, expecially in the south-east, the sky is overcast and there is a good deal of mist.

The General Outlook

There are at present no indications of the approach of any fresh disturbance from the Atlantic but conditions remain favourable for the passage of depressions eastward from the Iceland region, so that a continuance of the mild Westerly type of weather may be expected.

R. G. K. LEMPFERT. Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 347

Thursday, 13th DECEMBER.

	STATIONS.	Evening of 12th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 13th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 a.m. 13th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning	Weather. Afternoon.	Weather. Night.	Sunshine for 12h.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1007·6	45	SW	6	rq	1007·2	+1	43	+1	WNW	6	NW	bcq	5	9	48	39	cmp	orq	o.cpq	*
	Deerness (Orkney)	1011·8	48	SW	5	o	1012·8	*	44	+3	W	5	-	bc	4	3	48	41	c.bc.om	mr.oe	op.c	0·0
	Stornoway ...	1015·1	50	SW	6	orq	1018·6	+3	44	+1	W	6	-	bq	5	4	50	42	orq	orq	c.bpq	0·0
	Castlebay (Barra Isd.)	1019·3	50	WSW	5	r	1023·1	+2	48	0	W	4	-	o	4	3	51	47	or	r	or.c.o	0·0
	Glasgow ...	1022·7	44	SW	3	omr	1023·1	+2	46	+3	SW	2	-	o	*	3	49	40	om.omd	omd.om	od.o	0·0
	Eskdalemuir ...	1025·4	41	SW	5	omd	1023·3	+1	45	+8	W	5	-	b	*	3	47	35	om.ofe	omr	omd.ol	0·0
	Malin Head ...	1023·6	46	SW	3	omd	1025·5	+2	47	+1	W	5	W	bcm	5	3	48	38	omd	omd	omd	0·0
	Blacksod Point	1027·3	49	SW	5	omd	1028·5	0	49	+2	WSW	3	-	ome	5	3	49	46	omd	omr	omd	*
	Valencia (Cahirciveen)	1032·6	47	SSW	2	b	1031·7	0	50	+9	SSW	2	-	om	3	0·2	50	41	o.cz	c.bz	bcz.em	0·2
	Roche's Point	1032·6	44	NW	1	b	1031·4	*	45	+8	NNE	1	-	b	1	0·3	48	34	bcm	bc.c.b	bm.o.bm	*
	Birr Castle ...	1030·6	47	SW	1	o	1029·2	*	49	+12	SW	1	-	o	*	Trace	49	35	o	o	o.c	0·0
	Donaghadee ...	1025·6	45	WSW	4	ogfr	1026·4	+2	49	+9	W	4	W	cgq	3	2	50	38	cf.ofr	egfp	omr.cq	*
	Liverpool (Bidston)	1029·8	42	SW	2	o	1027·3	+1	47	+8	WSW	5	W	oq	4	-	49	38	omd	omg	oq	0·0
	Holyhead ...	1029·0	47	SW	4	om	1027·9	0	50	+8	W	4	-	ome	3	1	50	44	ompd	o.e.o		0·0
	Pembroke (St Ann's)	1032·4	47	SW	1	c	1030·4	-2	49	+9	SW	2	W	c	2	--	49	39	cz	e	c	0·0
	Hartland Quay	1033·0	47	W	2	b	1031·7	-1	50	+11	W	3	-	o	2	-	50	38	bz.oz	c.bc.b	o	*
	Scilly (St. Mary's)	1034·1	44	-	0	b	1033·2	-1	46	+1	WNW	3	NW	bc	3	-	49	42	cm.c	c.bc.b	bcm.bc	0·8
	Falmouth ...	1033·6	36	NNW	1	bzx	1031·7	0	44	+11	W	3	-	c	*	-	44	32	bx.bc	c.bzx	b.bc.c	1·6
	Jersey (St. Aubin)	1033·2	35	NNE	2	bm	1031·6	*	42	+1	W	2	-	o	1	-	42	34	e.bc	c.o.bm	bw.ome	0·2
	Portland Bill ...	1032·2	43	W	1	b	1030·1	-2	47	+12	WNW	4	W	bc	3	-	45	35	bc	bc.b	bc	*
	Dungeness ...	1031·0	31	W	2	b	1029·1	0	41	+9	WSW	2	-	o	1	-	43	29	c.bz	b	bzx.c.o	*
	Dover	*	*	*	*	*											*		*			
	Wick	1013·0	49	W	4	o	1015·2	+4	43	+5	WNW	5	-	bcmq	3	2	49	?	bc.oinr	omr.og	bcmpq	*
	Nairn	1018·7	48	WSW	3	ogq	1018·9	*	47	+7	WSW	4	-	cgq	3	0·3	51	38	bc.c.o	opgq	oq.c	0·0
	Aberdeen ...	1017·3	43	SSW	3	o	1018·2	?	47	+8	W	5	-	bc	2	8	50	38	c.oz	omr	o.c.bc	0·0
	Leith	1021·7	47	W	3	o	1021·0	+1	48	+5	W	2	W	b	3	0·1	50	41	o.ce.od	od.cg.o	oq.c.b	*
	Tynemouth ...	1024·8	43	W	3	fr	1021·0	0	50	+3	W	4	W	bcmq	3	2	50	40	om	fr	bcmq	*
	Spurn Head ...	1028·1	39	WNW	2	bf	1024·6	0	46	+9	W	4	-	oq	4	Trace	46	37	bm	bm.f	f.om	1·8
	Yarmouth (Gorleston)	1027·9	33	WNW	2	f	1025·5	0	41	+10	W	2	-	om	2	-	42	29	bf	bf	bf.om	0·4
	Clacton-on-Sea ...	1030·3	34	W	2	m	1027·8	0	39	+7	W	1	NW	o	1	-	39	30	bcm	bc.bm	bmx.f.	0·4
	Nottingham ...	1029·5	40	SW	2	o	1026·8	*	46	+15	W	2	-	om	*	0·3	47	30	om.c	cm.o	c.od	0·0
	Benson (Oxon.) ...	1031·6	30	-	0	b	1028·3	0	37	+8	-	0	-	bcm	*	-	39	28	bm	bm	bcm	*
	Sth Farnborough	1032·1	34	WNW	1	bm	1030·0	0	40	+10	WNW	2	-	o	*	-	40	30	amx.c.o	om.bm	bmx.om	1·4
	Salisbury Plain	1032·3	34	W	1	b	1029·9	-2	42	+12	WNW	4	-	c	*	Trace	43	29	bcmx	bcm		*
	London (Kew Obsy.)	1031·6	32	-	0	bfx	1029·3	0	38	+7	-	0	-	of	*	Trace	38	31	ofx.bm	bm.ofx	bfx.of	0·0
NORTHERN EUROPE.	Spitsbergen ...	975·0	19	-	0	s	977·4	+1	18		W	5	*	s	*	*	23	16				
	Vardö	996·0	36	SW	7	c	995·0	-1	28	-4	SW	2	-	o	3	*	36	18				
	Bodö	1000·8	34	SW	4	a	993·1	-3	28	-9	NNE	2	-	c	2	?	37	27				
	Christiansund ...	1009·0	37	WNW	4	o	992·0	-2	41	0	W	7	-	o	6	8	41	32				
	Skudesnaes ...	1018·3	43	W	4	o	1006·6	-4	43	0	W	5	-	o	5	7	43	41				
	Færder (X'tania Fjord)	1015·6	41	WSW	5	o	1001·6	-5	45	+2	WSW	6	-	b	4	-	43	41				
	The Scaw (Skagen)	1018·0	41	W	3	o	1007·2	-7	45	+9	SW	4	-	o	4	-	45	36				
	Blaavands Huk	1024·3	43	WNW	2	bc	1017·9	-5	43	+2	WNW	3	-	o	*	-	45	36				
	Copenhagen ...	1022·8	39	W	2	m	1017·2	-4	41	+4	WSW	4	-	m	*	Trace	41	36				
	Bornholm ...	1023·1	37	W	4	m	1018·2	-4	39	+3	W	7	-	o	1	-	39	34				
FRANCE, &c.	The Helder ...	1028·8	43	SW	2	o	1024·6	-1	43	+9	SW	3	-	o	3	-	45	34				
	C. Gris Nez ...	1031·1	40	W	2	b	1029·9	-1	45	+5	WSW	2	*	r	2	?	45	40				
	La Hève	1031·0	41	SW	3	o	1029·6	*	43	+10	W	4	*	o	4	-	43	41				
	Brest (St. Mathieu)	1033·8	42	ENE	2	bc	1034·2	-1	41	+1	SSE	1	*	b	1	-	48	39				
	Rochefort (Ile d'Aix)	1029·5	36	ENE	5	bc	1031·6	+1	32	-3	ENE	5	*	b	*	-	39	34				
	Biarritz	1027·3	37	ENE	2	m	1028·8	0	36	-8	E	1	*	o	4	-	45	35				
	Paris	1032·0	32	N	2	b	1031·8	0	30	0	SSE	2	-	o	*	-	39	27				
	Belfort							*					*		*							
	Lyons	1026·4	38	NNW	5	b	1029·4	*	30	0	NNW	4	*	b	*	-	36	29				
	Nice	1010·8	50	E	3	o	1020·2	+2	46	+2	-	0	*	b	3	-	54	42				
	Perpignan ...	1017·8	45	NW	6	b	1018·3	+4	37		NW	2	-	b	*	-	52	36				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1025·8	52	NE	6	bc	1027·1	-1	41	-11	-	0	NE	b	2	-	55	39				
	Madrid	1021·0	48	NE	1	b	1025·1	+3	37	+1	NE	2	-	b	*	-	48	30				
	Lisbon	1018·2	54	NNE	3	bc	1021·2	+2	45		N	3	-	b	5	-	54	45				
	Azores (Horta) ...		*				1018·6	-2	59		NE	8	*	c	6	-	63	59				
	Madeira	1000·3	59	S	3	o	1005·0	0	61		S	4		r	4	10	64	55				
	Gibraltar	1017·3	57	E	6	bc	1018·3	*	56	0	E	4	*	bc	3	-	58	55				
	Malta	*	*	*	*	*	1017·1	+1	54	-1	SW	1	-	b	1	-	63	52				
	Limassol	*	*	*	*	*	1018·3	+1	45	+2	-	0	-	b	0	-	61	41				
	Alexandria ...	1018·8	59	NE	2	b	1018·0	0	56	-6	-	0	-	bc	0	-	66	54				
	Cairo (Helwan) ...	1017·8	55	NE	2	b	1017·8	+2	48	-6	NW	1	-	bc	*	-	64	50				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

LONDON 13th DECEMBER, 9h. G.M.T.	Humidity. 15 h.	Humidity. 9 h.	Sunshine for 12h.	24 hours ended 9 h. 13th: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	90	90	0·0	43	32	26	-	bf	bm	bf
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	92	94	0·0	43	32	28	-	m	m	91
CAMDEN SQ. (British Rainfall) ...	90	97	0·0	41	32	29	-	o	o	*
S. KENSINGTON (Museum Grounds)	*	90	0·0	43	34	*	*	oimx.	bm	bf.bm

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 12h.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
130	4·5	8·0

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20476. Friday, 14th DECEMBER, 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature reached 50° in all parts and at some stations in the West the night minima were little below this figure. Sunshine measurements were poor. Some rain fell in the north, 13 mm. at Lerwick.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 13th DECEMBER.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 13th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	Trace	–	47	46	b.bc	bc.c	2.0
	Montrose	–	–	48	43	b	o	4.2
	St. Andrews							
Eng. N.E.	Harrogate	1	Trace	49	42	bc	bc	0.9
	Skegness	Trace	–	50	32	o	b	0.7
England, E.	Felixstowe	–	–	47	32	bcm	bcm	0.0
	Southend-on-Sea	1	–	46	32	cz	bc.bz	0.0
England, S.E.	Margate	–	–	47	33	c	oe	0.0
	Hastings	1	–	48	38	or.c	o	0.0
	Eastbourne	Trace	–	49	30	bc.o	o.c	0.0
	Seaford	*	*	47	31	m	m	0.1
	Worthing	–	–	48	30	o	o	0.5
	Littlehampton							
	Bournemouth	–	–	49	35	o	o	0.0
Scotland W.	Oban	–	–	50	46	b.bc	bc.o	0.3
Eng. N.W.	Morecambe	Trace	–	47	42	o.*bc	*bc.c.o	1.7
	Southport							
Midlands.	Malvern	–	–	56	40	m.b	b.bc.b	1.3
	Ross-on-Wye							
Wales.	Rhyl	Trace	–	49	38	cp	cp.bc.c	1.0
	Colwyn Bay	1	1	51	47	c	c	1.4
	Llandudno	*	*	50	47	cd	c.o	1.2
	Aberystwyth	*	*	48	38	or.o	c.o	0.0
England, S.W.	Weymouth	*	*	51	33	c	c	0.6
	Torquay	–	–	53	35	c.bc.b	b.bc.c.o	4.3
	Paignton	*	*	55	31	o.bc	bc.c	4.4
	Penzance	–	–	51	38	c	or.c	0.7
	Newquay	–	–	50	32	o	o	0.0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 13th DECEMBER.

	STATIONS.	Evening of 13th: Barom. Millibars at M.S.L.	Evening of 13th: Temp.	Evening of 13th: Wind Direc.	Evening of 13th: Wind Force 0-12.	Evening of 13th: Weather.	Morning of 13th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1008.6	32	N	6	o									*	
	Hangö						1011.5	-4	37	+3	SSW	4	c	5	*	32
	Yuriev															
	Petrograd	1023.3	12	SE	2	o	1017.2	-3	21	+18	S	4	S	1	12	3
	Vijni Volotchok	1031.0	14	S	2	o	1025.6	-3	19	+25	S	2	o	–	*	16
	Gorki	1030.0	?	SW	1	bc	1024.6	*	19		WSW	1	o	–	*	19
	Moscow	1032.4	19	SSE	2	o	1028.8	-2	21	+9	SW	2	o	–	*	19
	Kiev	1029.7	21	SSE	2	o	1029.6	o	19	+12	SSE	2	c	–	*	19
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad	1029.2	16	ENE	2	o									*	
	Nicolaiev							*							*	
	Odessa	1028.7	21	ENE	3	o									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1019.1	43	E	2	o	1024.3	*	36	-7	NNE	1	b	18	43	31
	Turin	1017.0	37	–	0	b	1025.3	*	32	-3	–	0	b	–	43	32
	Pesaro	1017.3	41	NE	1	r	1021.3	*	46	+1	N	3	o	8	?	37
	Leghorn	1013.8	45	NE	2	o	1017.8	*	45	-1	NE	1	bc	2	50	42
	Rome	1012.3	48	E	2	r	1016.4	*	?		NNE	1	c	16	52	45
	Viesti	1014.3	50	SSE	1	b	1015.8	*	50		–	0	b	–	55	48
	Brindisi	1014.8	48	S	2	r	1016.7	*	50	-2	S	2	b	–	59	50
	Cagliari	1012.9	52	NW	4	b	1012.0	*	48	+2	?	4	r	1	55	45
	Palermo	1027.9	52	SW	1	c	1016.6	*	57	+2	SW	1	bc	2	61	50
	Tripoli						1020.2	*	45	-1	SW	1	b	–	?	45
	Algiers	1018.8	50	NNW	2	b	1017.8	+1	48	o	–	o	b	–	59	48
Sweden.	Hernösand						998.4	*	28	-4	S	2	S	*	*	*
	Stockholm						1004.0	*	36	+2	SSW	4	r	*	*	*
	Wisby						1010.7	*	39	+7	SSW	6	o	*	*	*

Morning of 13th	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
Iceland.		°F	°F			
Isafjord	997.4	21	o	–	o	b
Reykjavik	1000.8	34	+8	–	o	c
Vestmanna	1002.6	36	+6	W	4	c
Seydisfjord	993.2	30	+14	NE	4	b
Thorshavn	997.4	40	+8	W	7	o

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

14th and 15th Dec. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	7.59 / 8.0	11.48 / 11.48	3.36 / 3.36
Greenwich	8.0 / 8.1	11.55 / 11.55	3.49 / 3.49
Wick	8.57 / 8.58	12.7 / 12.7	3.16 / 3.16
Valencia	8.44 / 8.45	12.36 / 12.36	4.27 / 4.27

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 14TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

LOW

985 mb

990 mb

995 mb

1000 mb

1005 mb

1010 mb

1015 mb

1020 mb

1025 mb

1030 mb

HIGH

Barometer falling

Barometer steady

Barometer falling

Bar

29·09in

29·24in

29·38in

29·53in

29·68in

29·83in

29·97in

30·12in

30·27in

30·42in

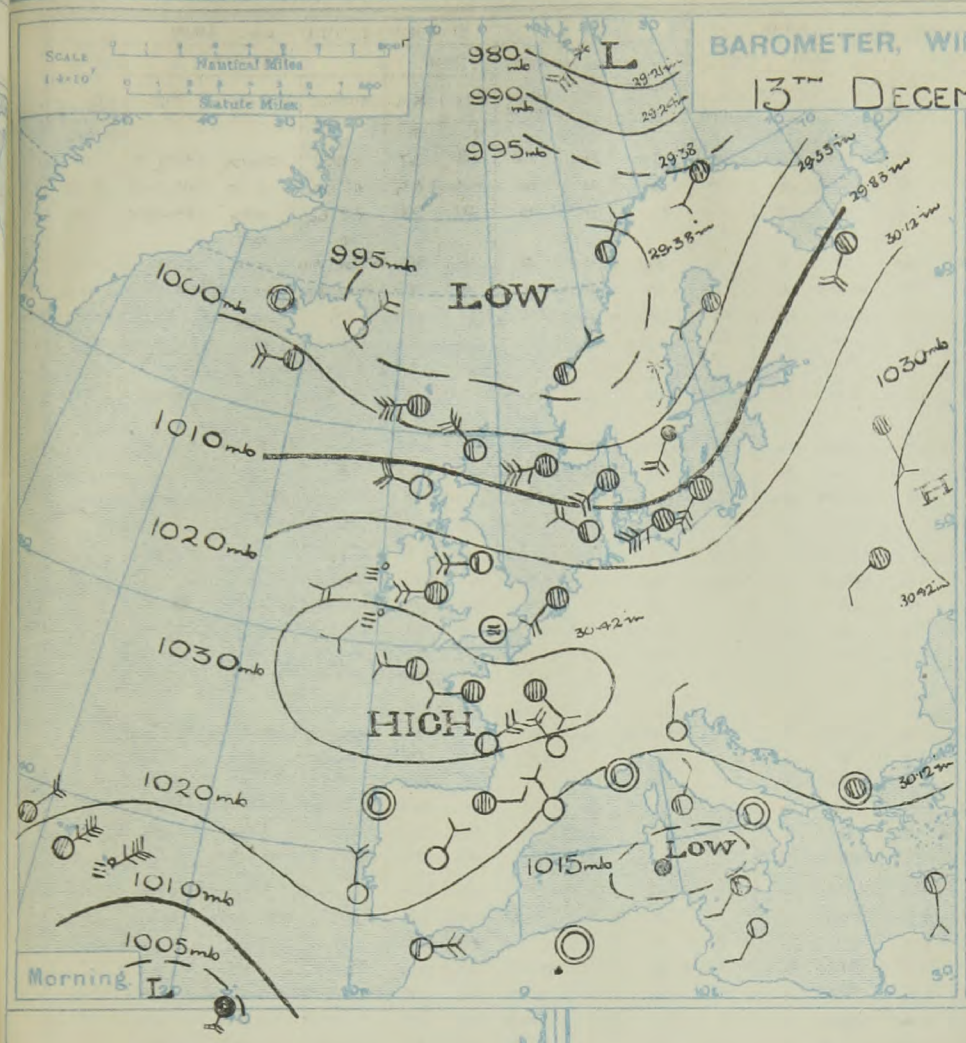
Scale 1:12×10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.

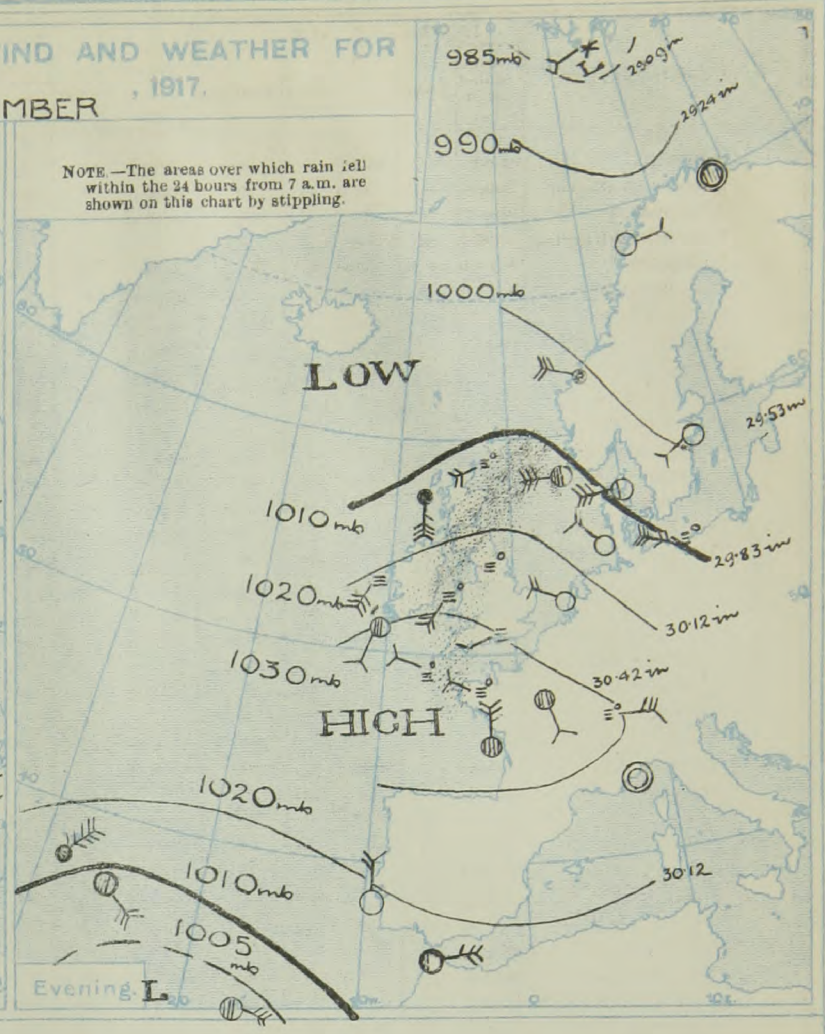
Below 40° | 40°-50° | 50°-60° | Above 60°

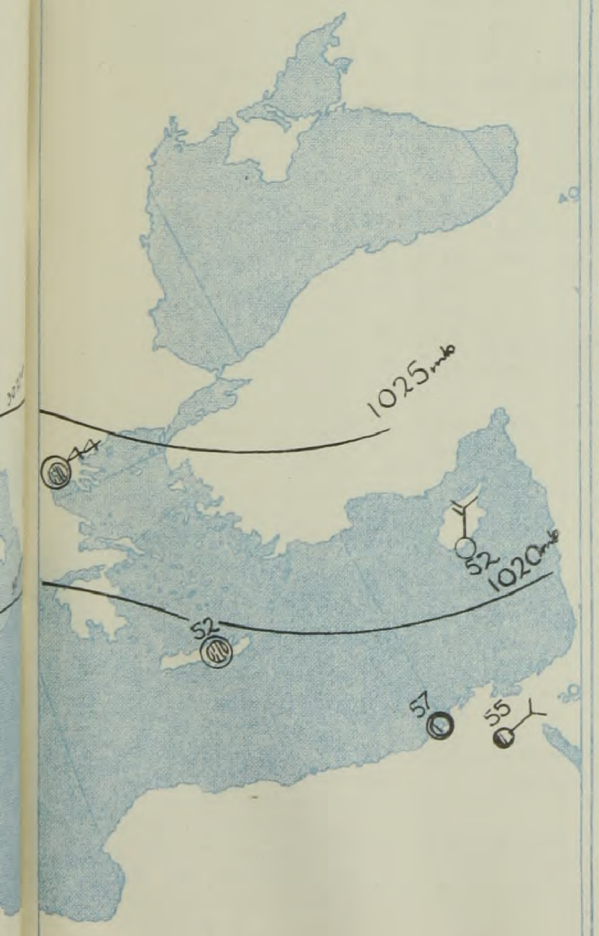
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 13TH DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

A rather deep depression is still centred in the neighbourhood of Spitzbergen. Another depression passed to the north of Scotland during yesterday evening and is now situated off the Norwegian coast. The anticyclone in the south maintains its position over France and the Bay of Biscay with little change. Pressure has risen over the Western Mediterranean, but a depression is still centred west of Madeira. A Westerly current prevails over the whole of the British Isles and is blowing strongly over the Northern North Sea. Showers or drizzling rain are reported at some stations but in general weather is fair or dull, without precipitation . Fog is reported from Yarmouth and La Hève and mist at some other stations. Temperature is mild in Ireland and England but colder in the west and north of Scotland.

The General Outlook

Conditions remain favourable for the passage eastward of depressions from the Iceland region so that a continuance of mild unsettled weather with Westerly winds is to be expected over the whole country.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No.348. 14th DECEMBER

	STATIONS	EVENING OF ...13th... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF ....14th.... Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ....14th Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	†Sunshine for 13th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1010·6	44	WSW	4	cm	1004·1	+1	41	−2	NW	4	NW	cm	4	13	46	37	cpq	cmpq	orq.c	*
	Deerness (Orkney)	1014·9	43	W	4	0	1008·4	*	41	−3	WNW	5	−	b	4	4	46	?39	e.bc	c.o	oq.e.b	0·2
	Stornoway ...	1011·0	45	S	7	orq	1013·4	−1	39	−5	W	3	−	c	4	5	51	36	bc.oq	orq	bc.cpq	0·0
	Castlebay (BarraIsd.)	1015·7	50	SW	5	od													o	od		
	Glasgow ...	1022·4	45	SW	3	cmg	1018·1	−2	42	−4	W	2	−	cg	*	2	49	41	c.bc.cm	cm	omdq.o	0·8
	Eskdalemuir ...	1028·5	43	SW	4	bc	1018·3	0	42	−3	WSW	4	−	o	*	2	45	40	b.bc.bz	bc2.cz	bc.omd	3·3
	Malin Head ...	1021·2	50	SW	5	omhq	1019·9	−1	44	−3	WSW	4	W	bcq	5	1	50	43	cm	cm	bcq	0·2
	Blacksod Point	1024·6	49	SSW	6	qfe	1021·2	−3	43	−6	W	5	W	bcpq	5	2	50	42	cmg	qfe	cm.bcp	*
	Valencia (Cahirciveen)	1031·2	51	SSW	2	c	1029·6	+2	47	−3	NW	4	−	op	?	1	52	47	fm.o	o.c	c.o.op	0·0
	Roche's Point	1031·2	48	−	0	0	1028·3	*	46	+3	SW	3	−	o	3	Trace	51	45	f.o	cm	o.c.o	*
	Birr Castle ...							*							*							
	Donaghadee ...	1023·6	50	WSW	4	cmq	1020·8	−1	46	−3	WSW	4	−	ogmq	3	0·2	51	45	cgq	bcm	omgpq	*
	Liverpool (Bidston)	1027·4	47	SSW	1	0	1022·0	−4	48	+1	SW	3	−	od	3	1	50	47	o	f	or	0·0
	Holyhead ...	1028·3	50	SW	4	cm	1023·3	−1	48	−2	WSW	5	−	mgpd	4	3	53	47	cme.cf	bc.c.cm	o.bcpd	2·0
	Pembroke (St.Ann's)	1031·1	49	WSW	2	0	1027·3	−3	50	+1	WSW	4	−	o	3	−	50	48	c	f.o	cf.c.o	0·0
	Hartland Quay	1031·9	50	WNW	2	0	1029·4	−2	50	0	WSW	5	W	o	4	0·1	50	49	cpd	o	o.cmd.o	*
	Scilly (St. Mary's)	1033·5	49	WNW	2	cm	1031·7	0	48	+2	WNW	4	NW	bc	4	0·1	51	46	bc.c	cm	cm.c.bc	0·3
	Falmouth ...	1032·5	49	NW	1	0	1030·5	−1	44	0	W	3	−	b	*	−	52	43	c.o.bc	oc	o.b	0·8
	Jersey (St. Aubin)	1032·0	50	WNW	2	cme	1030·6	*	50	+6	W	2	−	cme	1	0·2	52	41	o.bc.c	c.cme	cd.oc	0·6
	Portland Bill ...	1030·9	48	NW	2	c	1028·6	−2	49	+2	W	3	−	c	2	−	50	47	bc.c	c.o	c.o	*
	Dungeness ...	1028·9	45	W	2	c	1026·6	0	45	+4	W	3	−	c	2	−	48	40	o.c	cz	cm	*
	Dover	*	*	*	*	*											*	*				
	Wick	1015·7	43	SW	1	0	1011·5	+1	39	−4	WNW	5	−	bcmpq	4	1	48	?	bcmpq	c.omg	bcmpq	*
	Nairn	1016·5	44	SW	1	cg	1014·2	*	38	−9	W	1	−	cg	1	−	47	38	bc.cg	cgq	cg	1·3
	Aberdeen ...	1019·2	43	SW	2	0	1014·7	0	41	−6	WSW	3	−	bc	2	−	48	40	bcq	bc.cz.o	o.bc	3·4
	Leith	1022·1	46	SW	1	b	1017·1	0	43	−5	W	2	W	c	2	−	51	42	b.bc.c	bc.o.c.b	b.o.cq	*
	Tynemouth ...	1024·5	47	W	2	cm	1019·1	−1	45	−5	W	1	−	cm	3	−	53	45	bcm	bcm	cm	*
	Spurn Head ...	1027·2	44	W	3	bm	1020·7	−2	47	+1	WSW	3	−	cm	3	−	47	46	cm	c.bm	o.cm	0·1
	Yarmouth (Gorleston)	1026·6	45	WNW	2	cm	1023·5	−3	45	+4	WNW	2	−	of	2	−	49	40	bcm	bcm	bf.of	0·7
	Clacton-on-Sea	1028·6	44	W	2	m	1025·5	−2	44	+3	WNW	2	−	m	2	0·2	45	38	cmg	cg.bcm	cmge	0·0
	Nottingham ...	1028·4	48	SW	2	0	1022·7	*	48	+2	SW	3	−	o	*	−	49	46	cm	cm	cme	0·0
	Benson (Oxon.) ...	1029·5	41	−	0	b	1025·7	−2	47	+10	SW	3	−	o	*	0·1	49	34	bcm	cm	o	*
	Sth Farnborough	1030·4	43	W	2	bf	1027·4	−2	46	+6	SW	2	−	o	*	0·3	50	38	cm.bc.c	cm.bm.f	bf.f.or.o	0·5
	Salisbury Plain	1031·2	46	WNW	3	cm	1028·4	−2	46	+4	WSW	4	−	o	*	Trace	50	41	c.bc.o	bc.cm	cmp	*
	London (Kew Obsy.)	1029·6	46	WSW	1	bf	1026·7	−1	46	+8	WSW	3	−	o	*	0·2	48	37	of.bm	cm.o.bf	bf.fw.o	1·4
NORTHERN EUROPE.	Spitsbergen ...	983·2	14	WNW	2	s	985·9	+2	14	−4	SE	4	*	o	*	*	18	9				
	Vardö	998·4	28	−	0	0	998·4	+1	25	−3	−	0	−	b		*	28	25				
	Bodö	995·9	28	E	2	c	1000·3	0	19	−9	E	2	E	b	2	−	27	18				
	Christiansund ...	1000·7	39	WNW	5	r	1000·2	−3	37	−4	−	0	−	c	5	3	43	34				
	Skudesnaes ...	1011·4	45	W	6	c	999·0	−8	45	+2	W	6	−	c	7	5	45	43				
	Færder (X'iania Fjord)	1004·4	43	WSW	6	b	1003·5	−4	43	−2	SW	2	−	o	3	−	45	43				
	The Scaw (Skagen)	1007·9	43	W	7	b	1005·1	−6	41	−4	S	2	−	r	2	Trace	46	39				
	Blaavands Huk	1019·1	43	NW	3	b	1012·4	−5	45	+2	W	4	−	o	*	1	45	41				
	Copenhagen ...	1013·5	41	WNW	4	b	1011·4	−3	43	+2	W	2	−	m	*	1	45	41				
	Bornholm ...	1010·6	39	WNW	9	m	1010·4	−1	41	+2	WNW	5	−	o	2	3	41	37				
FRANCE, &c.	The Helder ...	1025·9	45	WNW	3	b	1021·8	−2	46	+3	SW	4	−	r	3	Trace	46	45				
	C. Gris Nez ...	1029·9	47	W	1	bc	1027·2	−2	47	+2	WSW	3	*	o	2	−	50	43				
	La Hève	1030·4	40	NNW	3	0	1029·5	*	46	+3	SW	3	*	f	2	1	46	40				
	Brest (St. Mathieu)	1033·9	46	W	3	0	1033·5	0	49	+8	NW	3	*	o	2	9	49	46				
	Rochefort (Ile d'Aix)	1032·2	49	N	3	0	1032·0	−1	36	+4	ENE	3	*	c	*	−	41	36				
	Biarritz	1029·1	41	NNW	2	b	1029·4	0	39	+3	S	3	*	o	2	−	45	34				
	Paris	1031·6	37	SSE	1	0	1031·0	0	39	+9	S	1	−	o	*	Trace	37	30				
	Belfort	1032·4	26	E	4	m	1033·3	*	25		NE	2	*	c	*	−	35	24				
	Lyons							*					*		*							
	Nice	1021·2	46	−	0	b	1026·2	+1	42	−4	−	0	*	b	3	−	54	38				
	Perpignan ...	1024·4	41	WNW	1	b	1028·3	+2	30	−7	W	1	−	b	*	−	46	30				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon	1020·6	57	N	3	b	1023·4	+2	43	−2	NNE	3	−	b	5	−	59	43				
	Azores (Horta) ...	1016·3	*	NE	9	r	1019·6	+1	61	+2	NE	8	*	o	6	4	63	59				
	Madeira	1006·0	63	SE	5	c	1009·6	0	59	−2	W	4	−	r	4	20	66	57				
	Gibraltar	1020·6	56	E	5	bc	1021·7	*	56	0	SE	5	*	bc	3	−	60	55				
	Malta	*	*	*	*	*	1018·7	+1	57	+3	NNE	2	W	bc	2	−	59	54				
	Limassol	*	*	*	*	*	1020·2	+2	52	+7	NE	3	−	b	0	Trace	63	43				
	Alexandria ...	1017·6	57	−	0	b	1019·4	+2	59	+4	−	0	−	m	0	−	68	52				
	Cairo (Helwan) ...	1016·7	55	NNE	2	b	1017·8	+2	52	+4	ENE	2	SW	c	*	−	64	46				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 14th DECEMBER, 9h. G.M.T.	Humidity. 15 h. 13th	Humidity. 9 h. 14th	Sunshine for 13th	24 Hours ended 9 h. ....14th.... Temperature. Max.	Temperature. Min.	Temperature. Min on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	89	0·8	48	41	34	Trace	c	c	o.w.d.bf.m
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	92	89	0·6	49	41	33	1	om	o.m	f.l.m
CAMDEN SQ. (British Rainfall) ...	92	91	0·0	48	40	35	Trace	o	o	*
S. KENSINGTON (Museum Grounds)	*	91	0·8	48	41	*	*	om.o	cm	om.f.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ...13th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
140	4·8	14·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20477. Saturday, 15th DECEMBER, 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4)

A showery type of weather prevailed over most of the country with snow or hail in the north. Thunder and lightning were reported at several stations in the north of Scotland during last evening or night and lightning at Donaghadee. Sunshine measurements were generally poor, but 4·5 hours was measured in parts of Ireland. Night minimum fell to 32-35° in most districts.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 14th DECEMBER.....

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 14th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	–	2	40	35	bc. cr	cr. c	1·2
	Montrose	–	–	42	38	b	b	4·0
	St. Andrews	*	*	43	34	c	c	2·8
Eng. N.E.	Harrogate	1	Trace	49	38	o. bc	bc. b	2·4
	Skegness	Trace	1	48	40	o	b	0·1
England, E.	Felixstowe	–	1	50	40	om	bcp	0·0
	Southend-on-Sea	–	1	49	40	o	op. bc. b	0·2
England, S.E.	Margate	–	Trace	50	41	o	or	0·2
	Hastings	–	–	49	43	o	c. o	0·1
	Eastbourne	Trace	–	50	42	o. bc	bc. o	0·2
	Seaford	*	*	49	41	o	o. or	0·2
	Worthing	–	–	49	41	o	o	0·0
	Littlehampton							
	Bournemouth	–	–	52	40	c. o	c. o. b	0·6
Scotland W.	Oban	3	2	45	42	cp	cpl	0·4
Eng. N.W.	Morecambe	7	↑	44	43	*	*	1·3
	Southport	6	1	46	38	cr. bc	bcp. c. b	1·7
Midlands.	Malvern	–	–	?	41	bcm	b. bc	2·6
	Ross-on-Wye							
Wales.	Rhyl	3	2	47	42	oh	ohq	2·3
	Colwyn Bay	7	8	47	52	cp	cp	2·1
	Llandudno	*	*	52	44	cr. b	b. bo	2·2
	Aberystwyth	*	*	47	45	or. c	bo. o	1·7
England, S.W.	Weymouth	*	*	51	46	c	c. bc	0·6
	Torquay	–	–	51	45	c	c. bc. b	1·7
	Paignton	*	*	51	46	c	c	0·5
	Penzance	Trace	–	52	46	c	c. o. c	1·4
	Newquay	–	–	50	47	o	o	0·3
	Ilfracombe	Trace	Trace	48	46	op. c	o	0·0

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 14th DECEMBER.....

	STATIONS.	Evening of 13th. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 14th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1008·4	-2	18		SE	3	0	9	*	12
	Hangö	997·2	36	WSW	3	0	996·6	0	36	-1	WSW	2	0	1	*	30
	Yuriev	1003·1	32	SSW	5	5										
	Petrograd	1005·7	28	SSE	5	0	1000·6	-2	30	+9	S	4	0	1	30	24
	Vijni Volotchok	1017·9	21	6	2	0	1011·0	-5	19	0	SE	3	0	20	*	19
	Gorki	1020·4	21	SW	1	0		*							*	
	Moscow	1023·0	21	SSW	3	0	1017·0	+3	21	0	SSE	3	0	–	*	16
	Kiev	1026·6	18	ENE	9	0									*	
	Kharkov	1027·3	?	WNW	1	C									*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1026·6	37	–	0	b	1026·6	*	35	-1	–	0	0	–	45	34
	Turin	1026·9	37	–	0	b	?1022·8	*	30	-2	–	0	b	–	41	30
	Pesaro	1025·7	43	W	2	0	1027·5	*	41	-5	SSE	1	b	–	50	37
	Leghorn	1022·5	45	–	0	b	1024·0	*	41	-4	–	0	b	–	?	39
	Rome	1021·0	46	N	2	b	1024·5	*	41		–	0	b	–	57	39
	Viesti	1021·5	50	SW	2	0	1024·0	*	48	+2	NW	2	C	3	54	28
	Brindisi	1020·1	50	S	1	b	1021·1	*	54	+	SSW	2	b	–	59	50
	Cagliari	1015·8	52	N	4	0	1020·9	*	49	0	WNW	3	b	–	57	45
	Palermo	1017·5	48	–	0	0	1021·4	*	46	NE	–	0	bc	–	57	43
	Tripoli						?	*	45	0	S	1	b	–	?	43
	Algiers	1019·0	48	WSW	4	0	1019·3	0	46	-2	WSW	4	r	26	57	46
Sweden.	Hernösand	994·0	16	–	0	b	997·2	*	25	-3	4	2	b	*	*	*
	Stockholm	997·4	37	SW	2	b	1000·3	*	32	-1	SW	2	b	*	*	*
	Wisby	1001·5	41	WSW	4	b	1013·1	*	39	0	WSW	6	b	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
	Morning of 14th.					
		°F	°F			
Isafjord	999·8	23	+2	NE	7	r
Reykjavik	1000·6	30	-4	NNW	5	b
Vestmanna	997·2	30	-6	NE	1	b
Seydisfjord	999·4	27	-3	NE	6	5
Thorshavn	997·4	37	-3	W	5	o

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

15th and 16th DEC. R, 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·0 / 8·1	11·48 / 11·49	3.36 / 3.36
Greenwich	8·1 / 8·2	11·55 / 11·56	3.49 / 3.49
Wick	8·58 / 9·0	12·7 / 12·8	3.16 / 3.15
Valencia	8·45 / 8·46	12.36 / 12.37	4.27 / 4.27

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By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 15TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.

EXPLANATION.

BAROMETER.—Isobars are drawn for intervals of five millibars.

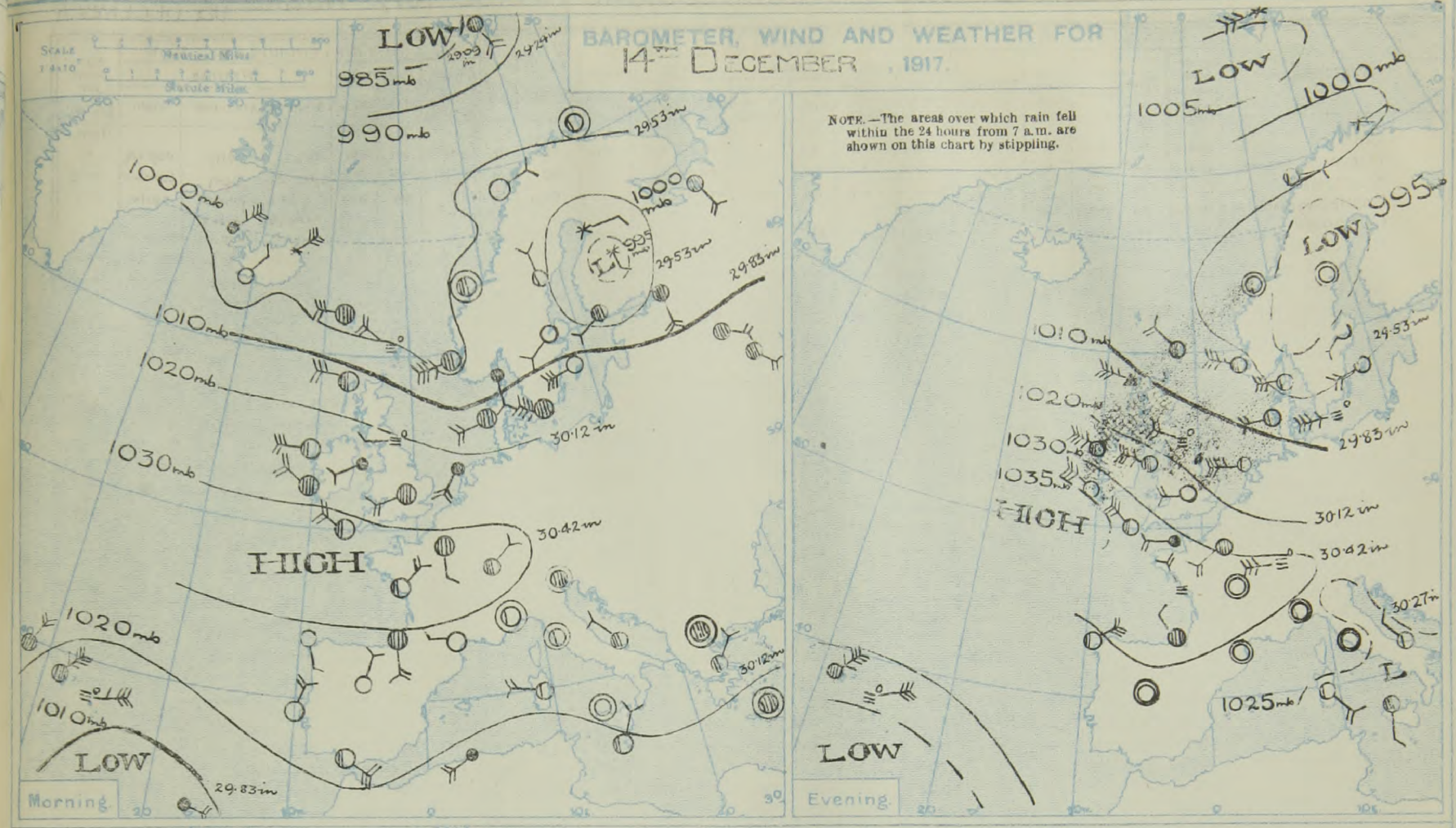
WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

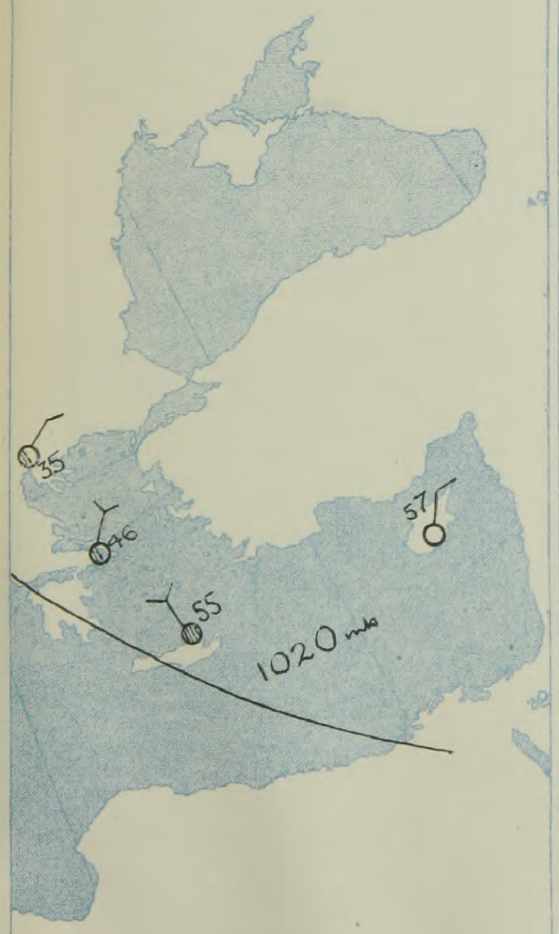
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◑ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. =° mist. ⊤ thunder.
⊼ thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.





The Present Situation

A large low pressure area lies over Norway and Sweden while an anticyclone still maintains its position over the Bay of Biscay. A gradient of North-Westerly winds prevails over the whole of the British Isles and the North Sea. Winds of force 6 are reported at the more exposed stations and force 8 at Malin Head and the Helder. The North-Westerly wind current has brought about a general fall of temperature over this country and cleared away the mist and fog, which has been rather prevalent for some days. Weather is generally fine but some snow ow hail showers are reported in the south.

The depression which lay yesterday Westward of Madeira has not materially altered its position.

The General Outlook

The barometer is showing a tendency to fall in the west of Ireland which seems to indicate the presence of another depression over the North-East Atlantic, though its intensity is at present uncertain. It is probable that there will be a return to West or South-West winds over the country with unsettled weather in the North.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 344. Saturday, 15th DECEMBER

	STATIONS.	EVENING OF ... 14th ... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF ... 15th ... Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. ... 15th ... Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 14th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1002·2	38	NW	3	c	1006·6	+3	37	-4	NW	6	NW	cq	5	6	41	33	cspz	chp	cspq	*
	Deerness (Orkney)	1006·4	34	WNW	4	psq	1012·8	*	35	-6	WNW	5	-	bc	4	7	42	34	b.bc.csp	spq	pbq.c	0·5
	Stornoway ...	1010·7	38	WNW	7	cbhq	1020·8	+3	35	-4	WNW	6	-	cq	5	7	40	34	c.o.phq	cphqc	cphq	0·1
	Castlebay (Barra Isd.)	1016·9	41	WNW	6	chp													oph.op	oph.c		
	Glasgow ...	1017·3	34	W	4	b	1023·7	+1	35	-7	W	4	NW	b	*	6	42	33	chp	crb.sp	bsp.b	0·2
	Eskdalemuir ...	1018·0	32	WNW	6	osq	1024·3	+2	34	-8	WNW	5	-	b	*	7	42	32	o.bc.op	c or.sp	op.bc	0·1
	Malin Head ...	1019·3	41	NW	8	bcqph	1026·9	+1	38	-6	NW	8	NW	cmq	8	2	45	37	bcqph	bcqph	cmphq	1·7
	Blacksod Point	1027·6	41	WNW	8	bcpq	1032·5	-1	43	0	NW	5	NW	cg	5	2	44	35	bcpq	bcpq	bcpq	*
	Valencia (Cahirciveen)	1035·5	45	NW	5	b	1035·2	-2	43	-4	NNE	2	-	o	3	0·3	48	42	bcg	b.bc	b.bc.c	4·5
	Roche's Point	1033·2	43	NW	4	b	1036·1	*	37	-11	WNW	2	-	b	1	0·2	49	37	bcpq	bc.o.c.b	b.bc.b	*
	Birr Castle ...	1031·1	38	W	1	bc	1033·9	*	34	-11	W	1	-	c	*	1	46	32	cgr.bc	bc	bc.c	4·6
	Donaghadee ...	1021·2	38	WNW	5	bcpq	1026·9	+1	38	-8	WNW	5	NW	bcpq	4	2	46	35	omq.bc	bcq	bcpq	*
	Liverpool (Bidston)	1022·5	42	WSW	7	bc	1028·0	+2	41	-7	W	6	W	bcq	5	4	48	40	op.bcq	bcqph	bcq	1·6
	Holyhead ...	1028·3	44	WNW	8	cpq	1030·3	+1	42	-6	WNW	6	NW	bq	6	3	48	41	or.c.bc	c.bc.cq	c.bc.cq	3·4
	Pembroke (St. Ann's)	1029·6	46	NW	6	bc	1038·8	+1	43	-7	WNW	3	NW	bq	3	-	50	43	cp.oz	c.bcq	bc.bq	1·5
	Hartland Quay	1031·0	48	NW	5	cpq	1034·4	0	45	-5	NW	5	-	b	4	-	50	45	o.omq	opq.bc	bhbq	*
	Scilly (St. Mary's)	1033·0	47	NW	6	bc	1037·0	0	44	-4	N	3	-	bc	5	-	51	41	oin	om.c.bc	bc	1·6
	Falmouth ...	1032·2	46	NW	4	b	1035·0	0	42	-2	N	3	-	bq	*	-	50	40	bc.o	c.bc.b	b	1·5
	Jersey (St. Aubin)	1030·2	50	W	3	omd	1034·7	*	44	-6	WNW	2	-	bc	2	Trace	53	43	oine.c.b	b.omd	b.bc	1·8
	Portland Bill ...	1027·5	48	NW	5	bc	1032·6	0	43	-6	NW	4	NW	bc	?	-	51	42	c	c.bc	b.bc	*
	Dungeness ...	1027	47	WSW	4	b	1028·3	0	36	-9	W	5	-	b	4	-	48	35	cp.c	cp.c	cp.c.b	*
	Dover	*	*	*	*	*																
	Wick	1008·2	34	WNW	4	bcmpq	1015·5	+3	38	-1	NW	5	-	bcpsh	4	4	40	?	bcmpq	bcmps	o.bcps	*
	Nairn	1011·7	33	WNW	2	cps	1019·7	*	33	-5	WNW	3	-	bcq	2	10	39	32	opu	cspu	cspq	0·0
	Aberdeen ...	1011·1	36	W	5	cq	1017·9	+2	35	-6	W	6	-	b	3	1	41	35	bc.b	bc.cpq	bspq	2·0
	Leith	1015·6	36	WNW	2	s	1021·8	+1	37	-6	WNW	2	-	b	2	1	43	34	c.ogu.c	cp.ors	cs.bc.b	*
	Tynemouth ...	1015·5	38	WNW	4	bcmq	1021·8	+3	35	-10	W	3	-	bmq	4	2	46	34	bcmq	cmpq	bm	*
	Spurn Head ...	1017·8	43	WNW	5	bq	1023·8	+2	38	-9	WNW	6	-	bq	6	2	47	34	cq	cq	bq	0·0
	Yarmouth (Gorleston)	1014·6	43	NW	4	bc	1023·6	+3	36	-9	NW	6	-	bqx	5	1	49	35	omp	om.bc	bcq.bq	0·0
	Clacton on Sea	1021·8	45	WNW	3	bc	1027·1	+2	36	-8	NW	3	-	b	2	0·3	49	36	og.bcm	bcm.cp	bc.b	0·5
	Nottingham ...	1022·2	38	NW	5	b	1027·7	*	38	-10	W	4	W	bc	*	2	51	37	op.c	bc.cp	b	0·0
	Benson (Oxon.) ...	1024·9	40	W	3	b	1029·8	+1	35	-12	W	3	-	b	*	-	51	33	bc	bc	bx	*
	Sth Farnborough	1025·7	43	WNW	4	b	1030·8	+2	35	-11	W	4	-	b	*	Trace	51	34	od.o.bc.o	o.b	bx	0·9
	Salisbury Plain	1026·9	42	WNW	6	bq	1032·3	+2	34		W	4	-	b	*	Trace	50	33	oq	o.bpq	bq	*
	London (Kew Obsy.)	1024·5	44	W	3	b	1030·4	+3	35	-11	W	2	-	bmx	*	Trace	50	35	o.c	c.o	b.bc.bmx	0·5
NORTHERN EUROPE.	Spitsbergen ...	995·1	5	E	5	5	1003·4	+3	1	-13	E	8	*	m	*	*	14	1				
	Vardö						1000·2	0	28	+3	E	1	-	s	2	*	25	21				
	Bodö	1000·4	21	E	2	b	1003·1	+2	45	+26	E	4	-	b	2	-	21	12				
	Christiansund ...	996·6	37	-	0	c	999·5	+2	34	-3	W	1	-	s	3	8	39	32				
	Skudesnaes ...	1001·8	39	WNW	4	c	1002·8	+1	37	-8	NW	3	-	c	4	-	45	43				
	Færder (X'tiania Fjord)	993·5	36	NNW	6	o	999·4	+2	32	-11	ENE	2	-	o	3	2	43	30				
	The Scaw (Skagen)	996·6	41	W	6	b	999·9	+4	37	-4	NW	3	-	b	3	3	45	37				
	Blaavands Huk	1006·4	43	WNW	3	b	1006·2	+1	41	-4	NW	5	-	c	*	Trace	45	37				
	Copenhagen ...	1003·4	43	W	4	o	999·2	+2	?		NW	4	-	bc	*	1	45	36				
	Bornholm ...	1002·6	41	W	8	m	995·2	+1	37	-4	WNW	10	-	o	2	-	41	37				
FRANCE, &c.	The Helder ...	1014·4	45	W	7	b	1018·0	+3	43	-3	WNW	8	-	c	6	9	46	39				
	C. Gris Nez ...	1022·8	46	W	5	c	1028·6	+2	39	-8	NW	6	*	b	6	-	54	39				
	La Hève	1028·4	45	WNW	5	b	1031·2	*	43	-3	NNE	5	*	b	4	-	46	42				
	Brest (St. Mathieu)	1033·6	49	WNW	4	*	1037·4	0	42	-7	NE	3	*	bc	2	-	50	41				
	Rochefort (Ile d'Aix)	1032·0	45	NNW	3	s	1035·4	+1	45	+9	NNE	2	*	o	*	-	45	45				
	Biarritz	1031·6	41	NE	1	o	1034·6	0	41	+2	SE	2	*	o	2	-	?46	36				
	Paris	1026·2	45	SSW	2	o	1031·6	+2	37	-2	WNW	2	-	b	*	-	48	34				
	Belfort	1030·8	32	W	6	m	1031·4	*	34	+9	W	4	*	o	*	1	37	28				
	Lyons	1033·1	37	-	0	b	1034·2	*	30		-	0	*	s	*	-	34	26				
	Nice	1027·2	43	-	0	b	1019·5	-4	41	-1	-	0	*	b	2	-	52	40				
	Perpignan ...	1028·7	37	-	0	b	1028·8	+1	43	+13	NW	4	-	m	*	-	46	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1028·7	54	ENE	5	bc	1032·6	-1	41		-	0	5	bc	1	-	56	39				
	Madrid	1029·0	43	-	0	b	1033·9	+1	32		NE	1	+	b	*	-	46	30				
	Lisbon	1025·4	55	NNE	4	b	1028·0	0	43	0	NNE	4	-	b	5	-	61	43				
	Azores (Horta) ...		*				1021·1	+1	61	0	NE	7	*	o	5	2	63	59				
	Madeira	1011·1	63	SW	3	0	1015·1	+2	59	0	SE	3	-	r	3	2	66	59				
	Gibraltar	1025·4	56	E	6	b	1026·1	*	57	0	SE	7	*	o	4	-	60	54				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1018·7	-1	57	0	NE	5	-	o	5	12	59	54				
	Alexandria ...	1019·5	59	N	1	b	1020·3	0	57	+5	NE	1	-	b	4	-	64	55				
	Cairo (Helwan) ...	1017·6	57	NE	3	b	1020·0	0	59	0	-	0	-	b	0	-	70	52				
		1018·0	+2	48	-4	-	0	-	b	*	-	66	43				

GALES.

Duration and Extreme Force in British Isles.

DEERNESS WNW 8 at 23h (14th)

ESKDALEMUIR
Gusts 23 m/s, aftn. 14th.

MALIN HEAD
NW 8 at 18h (14th) and 7h (15th)

BLACKSOD POINT
WNW 8, 7-18h (14th)

SOUTHPORT
Gale 17h (14th) - 2h (15th)
Extreme Gusts 25 m/s and 31 m/s, (aftn. 14th).

LIVERPOOL
W 8, 16h (14th) - 4h (15th)

HOLYHEAD
WNW 9 at 16h (14th)
" 8 at 18h " .

ABERDEEN
Gusts, W, 21 m/s aftn. 14th)
" " 22 " night. " .

LONDON 15th DECEMBER 9h. G.M.T.	Humidity. 15 h.	Humidity. 9 h.	Sunshine for	24 Hours ended 9 h. ... 15th ... Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	79	78	0·4	51	35	29	-	o.opo	o	b.bx
CITY (Bunhill Row)	*	*	0·5	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	80	84		52	34	29	-	ou	ou	o.b
CAMDEN SQ. (British Rainfall) ...	81	82	0·4	51	34	28	-	o	c	*
S. KENSINGTON (Museum Grounds)	*	75	0·7	52	37	*	*	o.c	o	b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ... 14th ...

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
110	3·8	17

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,478 SUNDAY, 16TH DECEMBER ... 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Conditions were generally fair to cloudy with some showers locally in the early morning. Later the weather became rainy in the western districts. Good sunshine records were obtained from East and South coast stations, 6·5 hours at Hastings and 6·3 hours at Bournemouth. Only in the Northern Districts were minima appreciably below 32° recorded.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. ... 15TH DECEMBER.

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 15TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	4	Trace	40	33	c. bc	cpS	1·9
	Montrose	-	-	39	33	b	b	2·7
	St. Andrews							
Eng. N.E.	Harrogate	1	-	39	32	b	b. bc	3·8
	Skegness							
England, E.	Felixstowe	-	-	42	35	bc. b	b. bc	6·1
	Southend-on-Sea	-	-	44	33	b	b. bc	6·1
England, S.E.	Margate	-	-	43	38	bc	bc	2·6
	Hastings	-	-	43	34	b	b	6·5
	Eastbourne	-	-	43	35	b	b	6·1
	Seaford	*	*					
	Worthing	-	-	43	34	b	b	6·2
	Littlehampton							
	Bournemouth	-	-	45	35	b	b	6·3
Scotland W.	Oban	3	1	41	37	cpS	c	1·4
Eng. N.W.	Morecambe	Trace	-	47	39	bc. c	bcp. b	0·8
	Southport							
Midlands	Malvern	-	-	46	37	bc	bc. c	4·1
	Ross-on-Wye							
Wales.	Rhyl	*	*	45	43	r. 0. c	c. 0	2·0
	Colwyn Bay							
	Llandudno	*	*					
	Aberystwyth	*	*					
England, S.W.	Weymouth	*	*	49	42	bc. c	c. 0	1·7
	Torquay							
	Paignton	*	*					
	Penzance	-	-					
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF ... 15TH DECEMBER.

	STATIONS.	Evening of 14TH: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 15TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1003·1	+1	19	+1	SE	4	S	-	*	19
	Hangö	996·3	32	-	0	c	993·9	0	30	-6	-	0	0	1	*	28
	Yuriev															
	Petrograd	996·8	27	SSE	6	b	999·8	0	32	+2	SSW	3	S	1	30	27
	Vijni Volotchok						1003·5	-2	23	+4	WNW	2	0	1		21
	Gorki	1007·6	25	SW	1	0	1001·3	*	?		SW	1	m	7	*	30
	Moscow	1012·3	19	S	2	0									*	
	Kiev						1008·6	-4	?		SW	3	b	2	*	19
	Kharkov	1018·0	18	-	0	S	1014·1	-2	25		-	0	0	-	*	18
	Kishinev	1028·8	21	E	1	0	1013·7	-4	27		-	0	0	*	*	23
	Elisabetgrad	1029·2	21	ENE	2	0									*	
	Nicolaiev	1028·0	23	NE	2	0		*							*	
	Odessa														*	
	Tarkhankout	1026·0	28	NE	4	0		*							*	
	Soukhoum														*	
Mediterranean.	Venice	1026·5	36	-	0	b	1016·7	*	30	-5	-	0	f	-	39	30
	Turin	1024·5	36	-	0	b	1019·1	*	?		-	0	f	-	41	28
	Pesaro	1025·3	39	-	0	b	1017·3	*	39	-2	-	0	b	-	48	34
	Leghorn	1024·5	45	-	0	b	1018·7	*	39	-2	-	0	bc	-	52	37
	Rome	1025·8	45	-	0	b	1022·2	*	34	-7	N	1	bc	-	54	34
	Viesti	1024·9	52	NW	1	b	1020·5	*	45	-3	W	1	b	-	54	41
	Brindisi	1025·1	55	NNW	3	b	1021·0	*	46	-8	NW	1	b	-	55	46
	Cagliari	1021·8	50	SE	3	b	1023·5	*	48	0	NNW	3	b	-	57	43
	Palermo	1023·0	50	S	1	c	1022·2	*	48	-2	-	0	0	1	63	45
	Tripoli						1017·9	*	57	+12	NW	1	r	10	*	46
	Algiers	1024·7	55	ENE	5	bc	1027·0	+1	52	+6	WSW	1	bc	2	57	48
Sweden.	Hernösand	994·0	16	-	0	b	999·0	*	19	-6	N	2	0	*	*	*
	Stockholm	997·4	37	SW	2	b	995·9	*	28	-4	N	4	0	*	*	*
	Wisby	1001·5	41	WSW	4	b	999·4	*	34	-5	ENE	2	r	*	*	*

Morning of 15TH

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	1028·2	10	-13	N	4	c
Reykjavik	1025·6	19	-11	N	5	bc
Vestmanna	1029·0	21	-9	N	5	b
Seydisfjord	1021·0	21	-6	N	4	S
Thorshavn	1009·6	30	-7	NNW	4	S

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

16TH and 17TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·1	11·49	3·36
	8·2	11·49	3·36
Greenwich	8·2	11·56	3·49
	8·3	11·56	3·49
Wick	9·0	12·8	3·15
	9·1	12·8	3·15
Valencia	8·46	12·37	4·27
	8·47	12·37	4·27

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WILLIAM & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 16TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◍ sky ¾ clouded. ◉ overcast sky. ● rain falling.
✳ snow. ▲ hail, ≡ fog. ≡° mist. T, thunder. T/R, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ~~

HIGH 1045 mb

1040 mb 1035 mb 1030 mb 1025 mb 1020 mb 1015 mb 1010 mb 1005 mb 1000 mb 995 mb

LOW

Barometer falling

Barometer rising

HIGH 1025 mb

HIGH 1025 mb

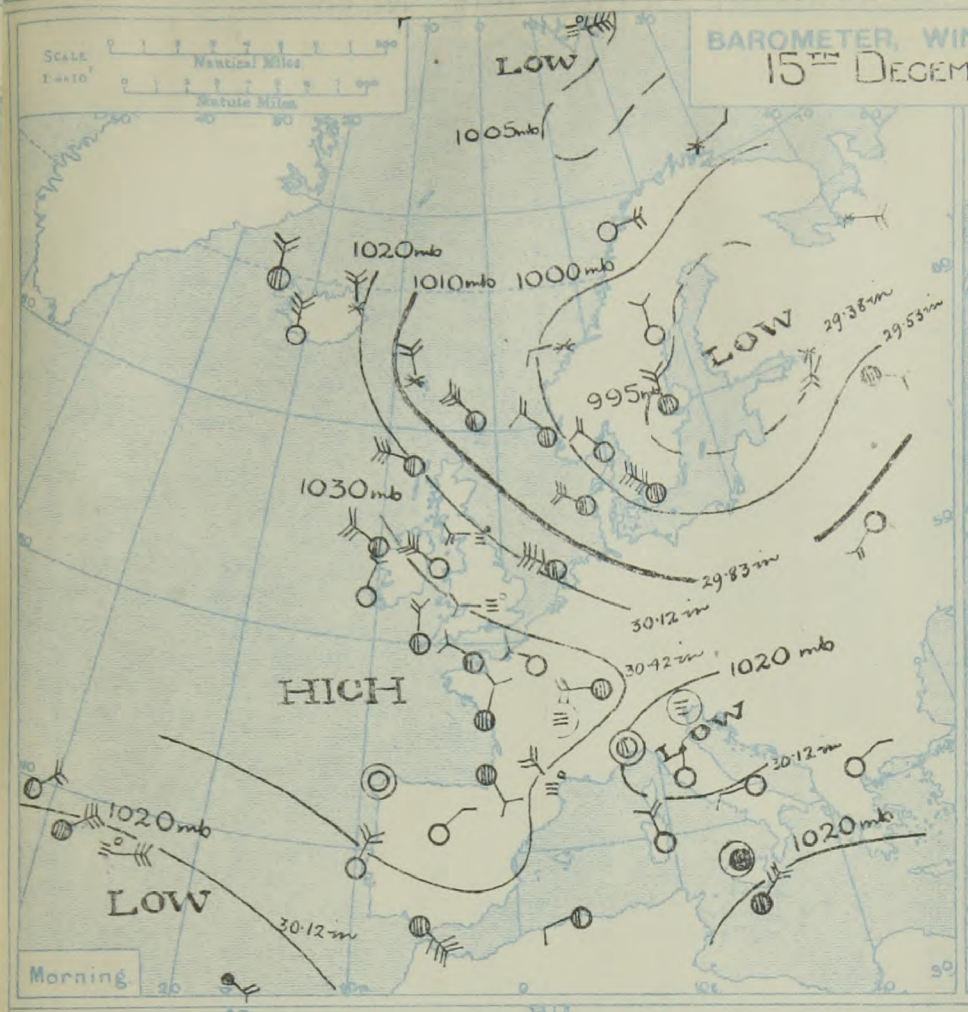
HIGH 1020 mb

LOW 1020 mb

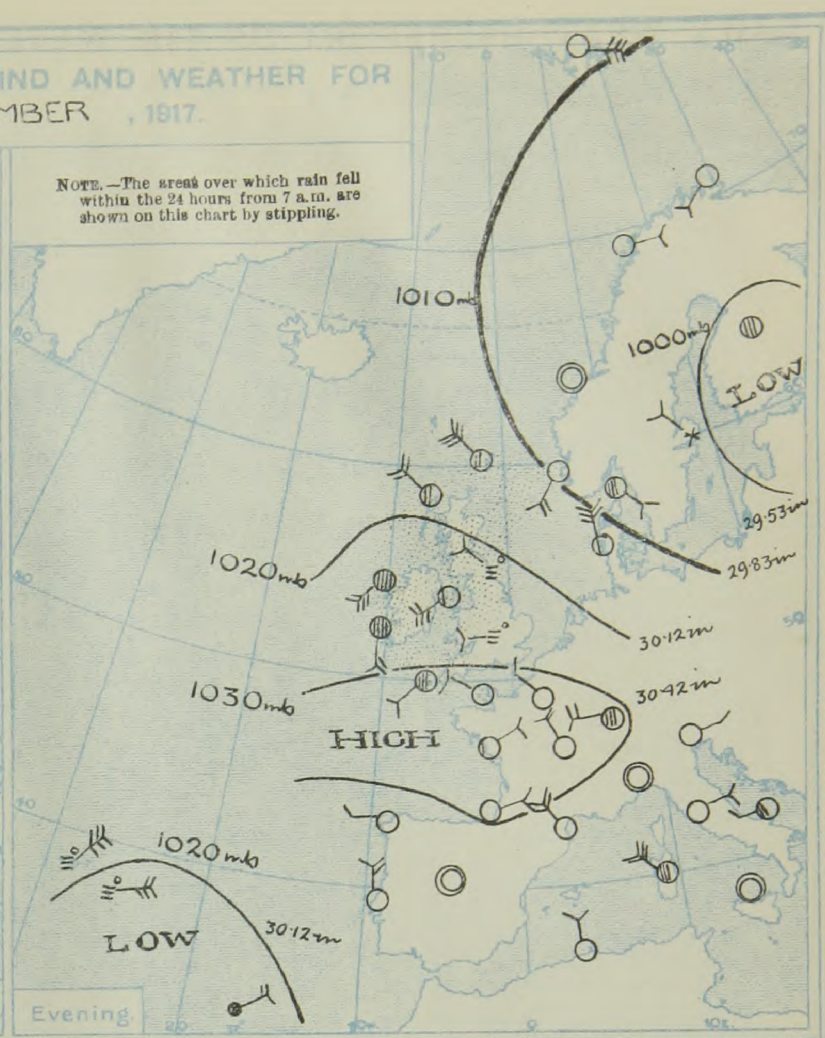
Scale 1 : 2 × 10⁶
Nautical Miles
Statute Miles

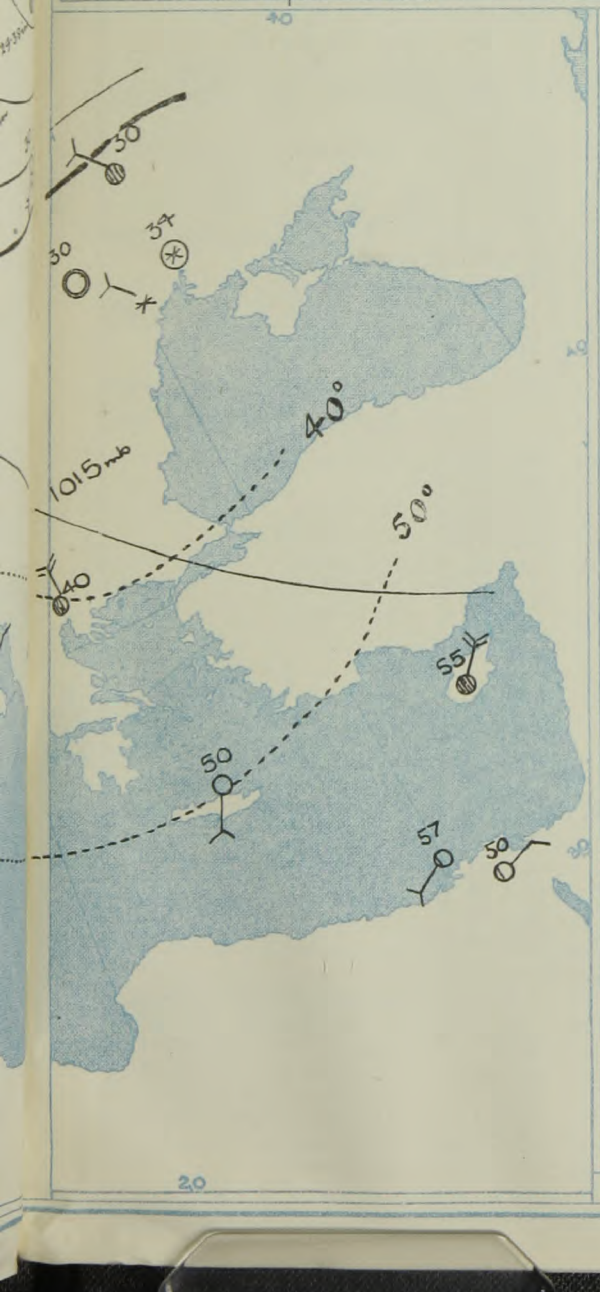
Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 15TH DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

A depression still lies over the Baltic. During the night an intense depression has come in from the Atlantic and is now centred over the Irish Sea where pressure readings are below 995 mb. A complete wind circulation is shown round this depression, forces 8 and 9 being reported on its SW. side. In other regions winds do not exceed force 5 or 6. The north of Scotland remains at present outside the influence of this depression and weather is fair but further south to Holyhead snow is falling and south of this there is rain.

Light winds prevail over the continent with generally dull weather and low temperature. Snow falling at Biarritz.

During the succeeding 24 hours the depression took an almost southerly course to the South-West of France and remained of considerable depth. It caused North or North-East gales over a large part of the country.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 350.

Sunday, 16th DECEMBER

	STATIONS.	EVENING OF 15th				MORNING OF 16th								24 HOURS ENDED 7 A.M. 16th						Sunshine for 15th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1012·4	35	NW	6	bcq	1013·8	0	30	-7	NNW	3	-	bc	3	3	37	28	cqsp	cqsp	bc	*
	Deerness (Orkney)	1016·2	35	NW	4	b	1014·2	*	33	-2	NNE	4	-	bc	6	1	37	33	cpk bc	bc.b	cbc	0·6
	Stornoway ...	1019·5	36	NW	4	bc	1014·8	+3	32	+3	N	5	-	bc	4	3	37	32	cpsq	cb.cpz	bcps	0·1
	Castlebay (Barra Isd.)	1020·0	41	-	0	o	1013·8	0	37		NNE	4	-	c	4	3	42	35	cbp.bc	bc.o	osp bq	0·5
	Glasgow ...	1021·7	36	W	2	bq	1008·0	-3	32	-8	NE	5	-	oqs	*	7	38	30	bcb.sp	bc.bq	oqs	2·0
	Eskdalemuir ...	1025·2	35	W	2	c	1005·2	-7	31	-3	NE	4	-	os	*	6	36	30			os	1·9
	Malin Head ...	1023·3	45	W	3	omr	1005·5	+10	33		ENE	8	-	omqS	8	18	46	33	cqp	omTq	omqs	0·0
	Blacksod Point	1020·0	39	SSW	5	oqp													oqp	oqp		*
	Valencia (Cahirciveen)	1025·4	44	S	3	o	1014·5	-1	43	0	NNW	7	NNW	cpk	-	5	48	39	o.c.o	o	c.or.cp	0·0
	Roche's Point	1033·5	44	NW	2	o	1007·3	*	41	+4	NW	7	NW	cq	5	3	45	39	b.bc.c.o	o	cbq	*
	Birr Castle ...							*							*							
	Donaghadee ...	1023·1	39	SW	3	oqm	997·7	+1	41	+3	?	5	-	omqr	4	10	43	37	bcmq	bc.omq	omqr	*
	Liverpool (Bidston)	1025·3	41	W	4	c	999·8	-15	41	0	W	4	S	oq	4	Trace	44	36	bc	bcq	oq	0·4
	Holyhead ...	1025·9	43	WSW	5	b	993·0	-14	39	-3	S	6	-	oprsq	5	11	45	37	b.bc.cq	c.o. bc.b	b.bcpr	1·1
	Pembroke (St. Ann's)	1028·7	44	W	2	r	1000·2	-9	44	+1	WSW	7	W	cq	5	4	45	38	bc	bc.c.op	cq.oqp	4·0
	Hartland Quay	1028·7	46	WSW	3	o	1004·0	-14	41	-4	WSW	3	-	r	4	5	47	39	bqp.cp	cp.b.o	op.orn	*
	Scilly (St. Mary's)	1030·4	45	SW	2	c	1008·6	-8	45	+1	NW	9	-	o	7	4	48	42	bc.c.	c	or.c.or	0·4
	Falmouth ...	1029·0	44	WNW	2	o	1006·3	-15	45	+3	NW	5	-	rq	*	5	49	37	b.bc	cb.c.cz	c.orTq	2·8
	Jersey (St. Aubin)	1030·6	38	WNW	2	b	1011·2	*	41	-3	S	5	-	o	4	1	48	35	bc.b.	bc.b	op o	4·7
	Portland Bill ...	1028·8	44	WNW	3	bc	1007·0	-13	45	+2	SW	6	-	r	5	3	46	43	bc	bc	cr	*
	Dungeness ...	1027·4	37	W	4	b	1011·0	-9	43	+7	SW	4	SW	c	4	-	42	34	cb	b	b.bc	*
	Dover	*	*	*	*	*																
	Wick	1017·5	38	W	2	bc m	1013·9	0	37	+1	E	4	-	o	4	3	38	?	bcph.c	cmpsh	ompsh	*
	Nairn	1020·1	36	WNW	1	cu	1014·4	*	32	-1	-	0	-	o	1	3	37	29	bcsp	bc.c	csu	1·1
	Aberdeen ...	1018·6	36	W	4	b	1012·6	-1	37	+2	ENE	5	-	o	3	-	37	33	bq	bq cb	b.bc.o	3·0
	Leith	1020·7	37	WSW	1	b	1008·1	-2	38	+1	E	5	-	o	5	2	39	34	b.bcz.b	b.bc.b	b bcra	*
	Tynemouth ...	1021·6	36	NW	2	b	1007·2	-5	33	-2	S	3	-	omr	3	2	38	31	b2 om	b2.om	o mr	*
	Spurn Head ...	1023·7	39	WNW	4	b	1008·1	-13	36	-2	S	3	-	od	5	1	40	35	bq	bq	op	0·1
	Yarmouth (Gorleston)	1024·0	35	WNW	2	b	1011·6	-5	34	-2	SW	2	-	omx	3	-	41	39	bq	bm	bem.or	5·1
	Clacton on Sea	1026·6	38	W	3	bc	1010·9	-8	39	+3	S	2	-	o	2	-	42	35	bz	b. bcz	bcz.oq	5·9
	Nottingham ...	1025·4	40	W	2	q	1005·8	*	36	-2	SSE	3	S	o	*	1	42	35	c.od	c.o	o.cp	0·3
	Benson (Oxon.) ...	1027·9	31	SW	1	b	1006·5	-14	37	+2	SSE	4	-	o	*	Trace	42	31	b	b	o	-
	Sth Farnborough	1028·5	34	WSW	3	b	1008·8	-14	37	+2	S	4	-	odm	*	0·3	43	32	bz.	bz.bc.b	b.ordm	6·1
	Salisbury Plain	1028·8	40	W	3	bc	1007·0	-8	37	+3	S	4	-	r	*	Trace	42	33	bq	bc	bc.op	*
	London (Kew Obsy.)	1028·1	38	W	2	b	1008·7	-11	39	+4	S	4	-	o	*	-	42	35	bmx.bm	b.c. bm	bm.o	4·9
NORTHERN EUROPE.	Spitsbergen ...	1012·0	0	E	7	b	1017·1	+3	-5	-9	E	6	*	c	*	*	3	-8				
	Vardö	1020·0	30	SW	3	bc	1007·0	+3	25	-3	-	0	-	b	3	*	30	21				
	Bodö	1006·6	18	E	2	b	1007·8	0	14	-21	E	4	-	b	2	-	48	20				
	Christiansund ...	1003·0	32	-	0	b	1001·9	0	27	-7	-	0	-	b	3	-	34	27				
	Skudesnaes ...	1005·2	36	SW	3	b	1006·0	+2	28	-9	NNW	6	-	c	5	11	38	36				
	Færder (X'iania Fjord)	1002·4	32	ESE	1	c	1002·0	0	30	-2	NNE	2	-	o	2	-	50	28				
	The Scaw (Skagen)	1001·8	37	-	0	b	1001·0	0	34	-3	SSW	1	-	S	1	-	39	32				
	Blaavands Huk	1010·3	39	NNW	5	b	1007·8	-1	37	-4	NW	3	-	bc	*	-	43	34				
	Copenhagen ...	1004·7	37	WNW	3	c	1002·8	+2	36		WNW	2	-	bc	*	-	39	34				
	Bornholm ...	1003·2	37	NW	5	s	1002·3	+1	34	-3	NW	2	-	o	1	3	37	32				
FRANCE, &c.	The Helder ...	1020·8	43	W	6	c	1011·8	-5	39	-4	WSW	3	-	c	4	-	45	41				
	C. Gris Nez ...	1027·5	42	NW	6	b	1013·1	-8	42	-3	SW	5	*	o	4	-	50	41				
	La Hève							*					*									
	Brest (St. Mathieu)	1031·1	45	SE	1	bc	1010·8		45	+3	W	4	*	r	3	-	50	43				
	Rochefort (Ile d'Aix)	1032·0	41	ENE	2	b	1018·0	-6	36	-8	SSW	3	*	T	*	-	50	37				
	Biarritz	1030·6	41	ENE	2	b	1020·0	-2	38	-3	ESE	1	*	S	3	-	45	36				
	Paris	1030·3	34	WNW	1	b	1016·0	-9	30	-7	S	1	-	o	*	-	43	28				
	Belfort	1031·9	31	W	4	c	1019·6	*	26	-8	NE	6	*	o	*	-	38	23				
	Lyons	1030·6	34	NNW	3	b	1020·0	*	25	-5	-	0	*	o	*	-	43	25				
	Nice	1018·7	46	-	0	o	1017·8	-4	42	+1	E	2	*	bc	4	-	52	37				
	Perpignan ...	1021·0	45	NW	4	b	1018·2	-5	29	-14	SW	1		o	*	-	50	41				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1028·8	52	W	1	c	1023·2	-2	50	+11	WSW	3	-	bc	3	1	55	43				
	Madrid	1029·2	45	-	0	b	1022·7	-3	46	+14	-	0	-	b	*	-	46	27				
	Lisbon	1026·3	57	N	3	b	1025·0	0	43	0	N	1	-	b	5	-	59	43				
	Azores (Horta) ...	1022·6		NW	9	o	1024·8	+2	59	-2	NE	9		b	6	-	63	61				
	Madeira	1017·8		NW	3	r	1020·7	+2	59	0	SE	2		c	3	9	68	57				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1016·2	+6	55	-2	N	3	-	o	2	-	59	52				
	Limassol	*	*	*	*	*	1017·8	-1	55	-2	NE	4	-	o	3	-	61	52				
	Alexandria ...	1020·8	57	WSW	2	o	1017·4	+1	57	-2	WSW	2	-	b	-	-	70	52				
	Cairo (Helwan) ...	1017·1	55	-	0	b	1018·0	+1	50	+2	E	1	-	b	*	-	66	46				

GALES.

Duration and Extreme Force in British Isles.

MALIN HEAD
Gale since 2 hrs. (16th)

HARTLAND POINT
S.W. gale 6 to 7 hrs (16th)

SCILLY
NW gale 6 to 7 hrs (16th)
Extreme force 9 at 7 hrs

LONDON 16th DECEMBER 9h. G.M.T.	Humidity. 15 h. 15th	Humidity. 9 h. 16th	Sunshine for 15th	24 Hours ended 9 h. 16th — Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	70	93	3·7	42	35	30	-	bz	bz	b.bc.c.o
CITY (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	78	91	-	44	35	30	-	bc	o	od.oe
CAMDEN SQ. (British Rainfall) ...	69	84	3·7	43	35	31	0·2	b	bc	*
S. KENSINGTON (Museum Grounds)	*	90	4·4	43	36	-	-	b	b	od

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 15th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
180	6·3	13·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,479. MONDAY, 17TH DECEMBER .1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4)

Gales were experienced over a wide area. Over the Irish Sea and Mouth of the Channel there have been strong Northerly or North-Westerly gales.

Frost occurred in the night, Glasgow registering 22°. Rain, hail, sleet or snow fell generally, 23 mm. at Holyhead. In most places the day was sunless.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 16TH DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 16th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	2	Trace	37	29	c	cpS	0·0
	Montrose	1	–	38	28	o	b	0·0
	St. Andrews							
Eng. N.E.	Harrogate	5	6	32	31	oS	oS	0·0
	Skegness	5	9	38	33	or	or	0·0
England, E.	Felixstowe	Trace	1	42	35	or	oq	0·0
	Southend-on-Sea							
England, S.E.	Margate							
	Hastings	2	4	43	35	or.bc	or	1·1
	Eastbourne	Trace	3	44	35	b.bc.oq	oqr	1·2
	Seaford	*	*					
	Worthing	1	8	43	34	r	r	0·2
	Littlehampton							
	Bournemouth	4	8	43	34	r	bc.r	2·0
Scotland, W.	Oban	1	–	35	33	0	bc	0·0
Eng. N.W.	Morecambe	8	3	36	34	* r.o	* os.r	0·0
	Southport							
Midlands.	Malvern	3	1	39	28	c.or	oq	0·1
	Ross-on-Wye							
Wales.	Rhyl	1	2	39	34	or	sq.r.e	0·0
	Colwyn Bay	3	7	42	35	c.s	or	0·0
	Llandudno	*	*	43	35	c.r	r	1·1
	Aberystwyth	*	*	39	33	r.o.c	c.o	0·3
England, S.W.	Weymouth	*	*					
	Torquay	13	2	41	36	c.bc.r	c.o.r	1·1
	Paignton	*	*					
	Penzance							
	Newquay	9	4	44	37	ohrq	ohrq	0·0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF ..... 16TH DECEMBER...

	STATIONS.	Evening of 15th: Barom. Millibars at M.S.L.	Evening of 15th: Temp.	Evening of 15th: Wind Direc.	Evening of 15th: Wind Force 0-12.	Evening of 15th: Weather.	Morning of 16th: Barometer. Millibars at M.S.L.	Morning of 16th: Barometer. Change in 3 hours.	Morning of 16th: Temp. Dry Bulb.	Morning of 16th: Temp. Change in 24 hours.	Morning of 16th: Wind. Direc.	Morning of 16th: Wind. Force 0-12.	Morning of 16th: Weather.	Morning of 16th: Rainfall. Millimetres.	Morning of 16th: Temp. Max.	Morning of 16th: Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1007·8	16	SE	3	o	1008·6	+1	12	-7	SE	4	o	–	*	10
	Hangö	997·6	28	–	0	o	998·7	0	28	-2	–	0	c	–	*	27
	Yuriev															
	Petrograd	995·4	28	SE	7	o	995·7	o	27	-5	E	3	S	3	32	27
	Vijni Volotchok	1000·3	25	SE	2	o										
	Gorki	992·0	32	S	2	o	993·7	*	32	?	S	1	o	28	*	30
	Moscow	1005·3	22	ESE	2	o	998·9	+3	30		SSE	4	o	3	*	21
	Kiev	1003·1	34	W	5	bc	1006·7	o	30		SW	4	b	1	*	28
	Kharkov														*	
	Kishinev						1011·5	+1	30	+3	–	o	o	–	*	25
	Elisabetgrad						1010·4	?	30		NNW	2	o	1	*	28
	Nicolaiev						1011·1	*	34		–	o	S	–	*	34
	Odessa						1011·3	+2	32		NNW	2	S	2	*	32
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1021·3	39	ENE	1	b	1020·1	*	34	+4	–	o	b	–	41	28
	Turin	1019·4	37	–	o	b	1020·5	*	34		–	o	o	–	45	32
	Pesaro	1022·2	37	–	o	b	1019·9	*	34	-5	–	o	bc	–	48	32
	Leghorn	1017·0	?	E	1	b	1017·4	*	41	+2	–	o	bc	–	48	39
	Rome	1018·6	46	E	1	bc	1018·1	*	30	-4	N	1	c	–	50	37
	Viesti	1016·3	50	W	1	b	1019·5	*	46	+1	WNW	1	bc	–	50	48
	Brindisi	1017·0	50	SSW	2	bc	1016·5	*	46	o	ENE	1	b	–	55	46
	Cagliari	1017·0	48	?	5	c	1016·9	*	50	+2	W	3	o	–	57	45
	Palermo	1019·3	48	–	o	b	1017·0	*	50	+2	SW	1	b	1	?	41
	Tripoli						1019·3	*	46	-9	SW	1	b	–	61	43
	Algiers															
Sweden.	Hernösand	1001·5	18	N	2	b	1000·7	*	23	-5	N	2	S	*	*	*
	Stockholm	10004	25	NW	2	s	10014	*	19	o	W	2	o	*	*	*
	Wisby	9998	28	?	2	o	1002·0	*	34	o	NNW	2	o	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
		°F	°F			
Isafjord	1047·1	3	-17	W	1	b
Reykjavik	1043·6	9	-10	N	6	b
Vestmanna	1041·1	7	-14	N	7	b
Seydisfjord	1025·2	7	-14	N	8	s
Thorshavn	1018·7	20	-10	N	5	o

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

17TH AND 18TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·2	11·49	3·36
	8·3	11·50	3·37
Greenwich	8·3	11·56	3·49
	8·4	11·57	3·50
Wick	9·1	12·8	3·15
	9·2	12·9	3·16
Valencia	8·47	12·37	4·27
	8·48	12·38	4·28

‡ The barometric change is expressed in half-millibars.

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THE MORNING OF MONDAY, 17TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ½ clouded. ◍ sky ⅞ clouded.
◍ sky ¾ clouded. ● overcast sky ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊤≈, thunderstorm.

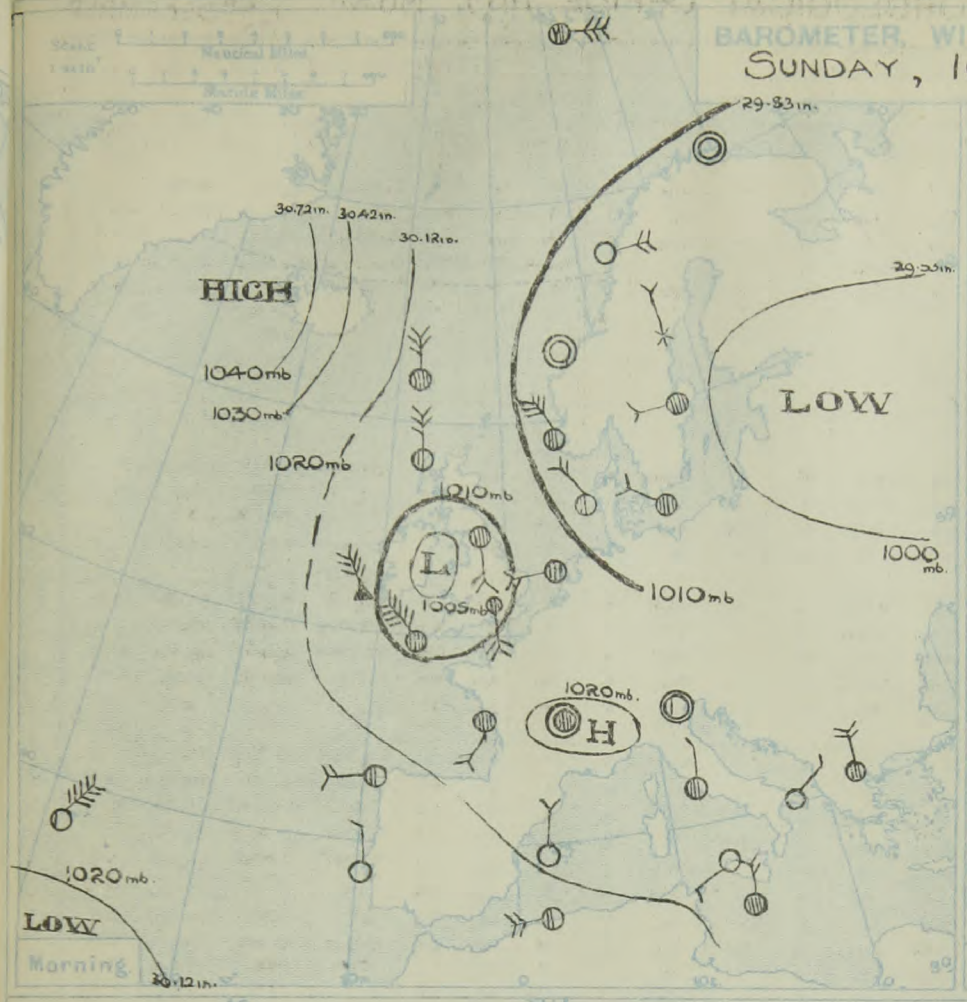
SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

Barometer HIGH generally 1030mb rising 1025mb 1020mb 1015mb 1010mb LOW 990mb 995mb 1000mb 1005mb

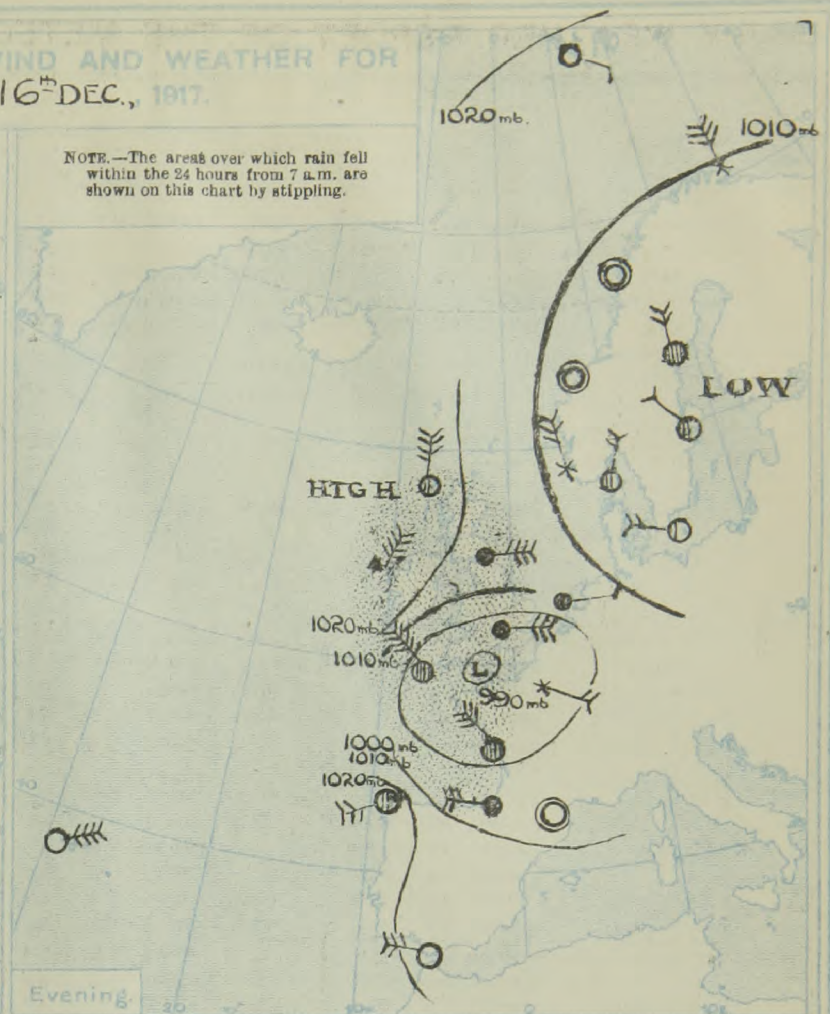
SCALE 1 : 2·10
Nautical Miles 0 1 2 3 4 5 6
Statute Miles 0 1 2 3 4 5 6 7 8 9 10

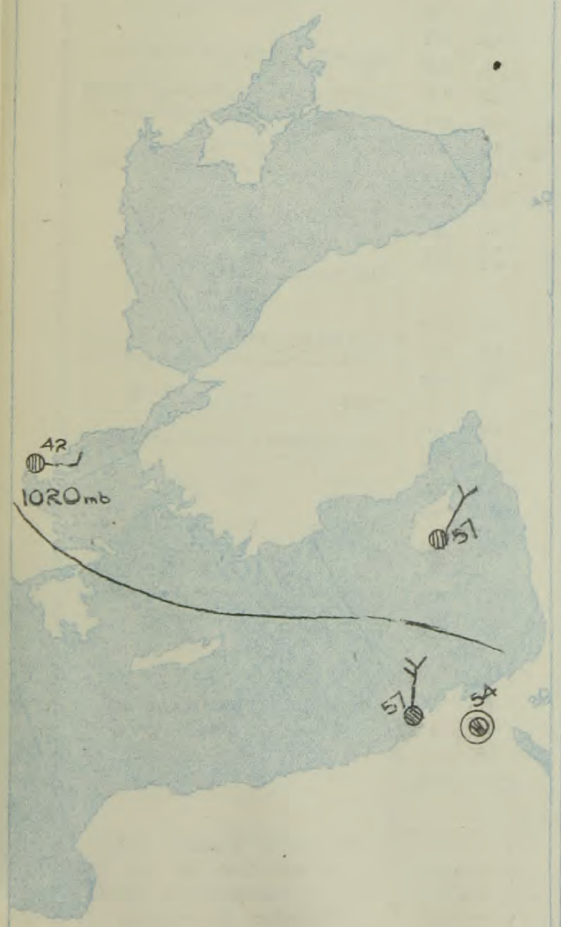
Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR SUNDAY, 16th DEC., 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

In the course of the past 24 hours a deep depression has passed from NE. Ireland across our Western districts, and its centre has now reached the South-West of France, where the barometer is below 990 mb. A general rise of the barometer is taking place in its rear, having reached nearly 1035 mb. in Hebrides. Over Britain and the Bay of Biscay there is a steep NE. wind gradient and gales from N. or NE. prevail over a wide area. Beyond the North Sea there are light to moderate NE. breezes. The weather varies from fine to dull, with local falls of rain, hail, sleet or snow.

The General Outlook

The Atlantic anticyclone will bring about a general decrease in the force of the Polar Wind current, with fair to fine cold weather predominating, and some passing snow showers, but the pressure distribution is of an unstable type, and it is doubtful whether the improvement will last any time.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 351. Monday, 17th DECEMBER

	STATIONS.	EVENING OF 16th					MORNING OF 17th									24 HOURS ENDED 7 A.M. 17th						Sunshine for 16th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1014·1	29	N	6	osq	1024·5	+4	37	+7	N	8	-	oq	6	6	37	25	bcspq	cqzp	os.cq.	*
	Deerness (Orkney)	1020·0	30	NNW	5	cph	1026·1	*	35	+2	NE	6	-	c	5	1	34	30	e.c.	cphs. c	cp.ch	0·5
	Stornoway ...	1027·1	28	N	7	bcpsq	1033·1	+3	30	-2	N	7	-	bcq	6	4	34	26	bcpsq	bcpsq	bcpsq	0·5
	Castlebay (Barra Isd.)	1028·1	29	NNE	7	bcuq	1033·6	+1	33	-4	NNE	4	-	b	5	Trace	37	27	bcs.cq	cs.bcq	bcqh.b	0·8
	Glasgow ...	1021·3	28	NE	3	bcq	1026·8	+2	32	0	W	2	N	bc	*	2	32	22	oq os	ou c	b.cb.bc	0·0
	Eskdalemuir ...														*							
	Malin Head ...																					
	Blacksod Point																					
	Valencia (Cahirciveen)																					*
	Roche's Point							*														*
	Birr Castle ...							*							*							
	Donaghadee ...	1017·8	38	NE	9	cqm	1026·2	+1	38	-6	NE	8	-	bmq	6	12	42	32	oqrs	oqhs	cmq bm	*
	Liverpool (Bidston)	1009·3	34	NNE	5	o	1022·9	+1	32	-9	NNE	5	-	bq	4	10	41	28	oqrs	orsq	bq	0·0
	Holyhead ...	1011·2	37	ENE	10	orqm	1023·4	+2	36	-3	NE	8	NE	cq	7	23	41	32	cb.c.cp	orqm	abcbc	*
	Pembroke (St. Ann's)	1000·6	38	N	7	oqr	1021·7	+8	33	-11	N	4	-	b	5	8	44	?	cq.oqr	cqph	uqps.b	1·1
	Hartland Quay	995·3	41	NNE	8	r													or.hqr	o.orq		*
	Scilly (St. Mary's)	994·6	45	NW	9	o	1017·7	+7	39	-6	NNE	2	-	cqp	8	9	48	38	cqph	cqhp	cqph	0·0
	Falmouth ...	991·8	?	N	9	cpq	1016·5	+8	35	-10	NNE	9	-	bc	*	9	44	34	rh rso	rsqcp	oq.bcq	0·5
	Jersey (St. Aubin)	991·0	40	WSW	4	qp	1006·1	*	39	-2	NE	6	-	oqu	4	16	48	34	orpho	qph	oqru	0·2
	Portland Bill ...	990·1	43	E	5	cq	1011·2	+10	36	-9	NNE	8	-	cq	6	15	45	34	crq	cqrh	cq	*
	Dungeness ...	997·9	36	SE	8	r	1008·3	+9	36	-7	NE	8	-	qr	8	11	44	33	cqp	rq	mr	*
	Dover	*	*	*	*	*																
	Wick	1021·2	27	N	5	cmpqs	1027·3	+4	36	-1	N	6	-	omq	6	1	37	?	cqhsk	cmpqs	cmpqh.c	*
	Nairn	1024·6	28	N	5	s	1029·0	*	34	+2	N	5	-	ouq	4	3	34	25	shcq	cq. o.	oq.chs.	0·0
	Aberdeen ...	1020·0	30	NNW	4	o	1023·5	+5	37	0	NNW	6	-	o	4	2	37	26	o	o.cqsp	bcshq	0·0
	Leith	1019·5	34	NE	7	c	1024·1	0	34	-4	NE	8	NE	b	6	2	39	28	orshs.	or.oq.c.	eq.cl.	*
	Tynemouth ...	1014·6	39	E	7	mqr	1018·5	+2	36	+3	N	4	-	cmqh	5	10	39	28	omqr	omqr	cqhh	*
	Spurn Head ...	1006·5	37	E	7	orq	1015·8	+1	32	-4	N	5	-	bcq	6	10	39	30	orq	orq	bcqh	0·0
	Yarmouth (Gorleston)	1005·0	40	ESE	6	o	1013·7	+3	37	+3	NE	8	-	bc	7	4	41	34	or	op	bc.oqh	0·0
	Clacton-on-Sea	1001·8	39	ESE	6	o	1012·6	+5	35	-4	NNE	5	NE	bc	6	5	41	34	oqp.c	c. oq.	ophqrs	0·0
	Nottingham ...	1005·7	35	NE	5	o	1018·5	*	28	-8	N	4	-	b	*	5	37	27	osr	qp	os.c.	0·0
	Benson (Oxon.) ...	998·8	35	ESE	5	r	1015·5	+7	30	-7	N	6	-	b	*	14	39	29		rj	rs	*
	Sth Farnborough	998·2	33	ENE	6	os	1013·8	+7	32	-5	NNE	6	-	b	*	11	41	32	rh o rsm	sr c os	sr.sqlb	0·3
	Salisbury Plain	995·8	33	ENE	6	oq	1015·2	+8	29	-8	N	7	-	o	*	14	39	29	oqrsm	o.cqs	oqs	*
	London (Kew Obsy.)	999·2	36	E	6	orq	1014·2	+5	35	-4	NNE	5	-	b	*	11	41	33	o.or.oqpo	o.or.orq.	osq.bch	0·0
NORTHERN EUROPE.	Spitsbergen ...	1019·8	-15	SE	1	b	1018·6	-1	-26	-18	SE	2	*	b	*	*	-6	-26				
	Vardö	1010·6	30	N	6	s	1017·3	+2	25	0	-	0	-	o	2	*	30	21				
	Bodö	1013·6	19	-	0	b	1018·8	0	19	+4	SW	2	-	b	2	-	19	16				
	Christiansund ...	1009·9	25	-	0	b	1019·2	+3	27	0	E	1	-	b	3	1	28	23				
	Skudesnaes ...	1008·3	26	NNW	4	s	1015·2	+5	37	+9	-	0	-	b	3	-	32	28				
	Færder (X'iania Fjord)	1006·8	23	N	2	r	1013·8	+5	25	-12	NNW	4	-	b	2	-	30	28				
	The Scaw (Skagen)	1004·7	30	NNE	3	bc	1012·2	+4	23	-14	N	3	-	o	3	-	36	27				
	Blaavands H	1007·6	37	N	3	bc	1012·2	+5	28	-	ENE	1	-	c	*	Trace	39	27				
	Copenhagen	1014·3	33	N	1	bc	1010·7	+3	30	-6	N	3	-	c	*	-	37	30				
	Bornholm	1003·8	34	WNW	3	b	1009·1	+3	32	-2	NW	1	-	c	-	-	36	30				
FRANCE, &c.	The Helder ...						1012·4	+3	36	-3	NNE	4	-	b	3	1	41	36				
	C. Gris Nez ...	1000·4	33	ESE	3	s	1008·2	+5	36	-6	E	6	*	r	4	2	43	27				
	La Hève	993·2	36	SSE	4	q	1004·8	*	33		NE	4	*	s	5	2	43	33				
	Brest (St. Mathieu)																					
	Rochefort (Ile d'Aix)	1001·6	41	NW	6	o	989·5	+1	39	+3	ESE	6	*	r	*	8	46	40				
	Biarritz	1007·6	50	W	5	r	993·2	-6	45	+7	WSW	7	*	r	7	19	30	41				
	Paris	998·8	33	SE	4	s	1003·1	+4	34	+4	NE	2	-	o	*	-	36	30				
	Belfort							*					*		*							
	Lyons	1006·7	28	SW	1	b	1001·6	*	37	+12	SSE	2	*	o	*	-	36	14				
	Nice	1010·2	39	-	0	o	1004·7	-2	38	-6	-	0	*	r	4	5	46	36				
	Perpignan ...	1008·4	37	-	0	b	1000·3	-4	37	+8	W	1	S	o	*	-	48	32				
	Sanguinaire ...	1011·1	51	S	4	o	1005·8	*	47		E	4	*	bc	4	4	54	46				
SOUTHERN STATIONS.	Corunna	1022·4	50	WSW	5	bc	1010·8	-1	45	-5	N	6	-	o	6 *	3	55	41				
	Madrid																					
	Lisbon	1022·0	52	WSW	3	b	1013·6	-1	43	0	NW	4	-	o	-	1	57	43				
	Azores (Horta) ...	1028·6	*	ENE	7	bc	1029·1	+1	57	-2	ENE	6	*	bc	3	-	63	57				
	Madeira																					
	Gibraltar	1017·9	53	WNW	5	b	1011·2	*	48		WNW	7	*	m	4	-	63	49				
	Malta	*	*	*	*	*	1015·6	+1	54	-1	SSE	1	-	bc	1	-	59	52				
	Limassol	*	*	*	*	*	1020·7	0	57	+2	NE	2	-	o	2	10	63	48				
	Alexandria ...	1018·2	59	-	0	b	1019·1	+1	54	-3	-	0	-	c	-	-	68	50				
	Cairo (Helwan) ...	1017·8	59	N	2	o	1017·2	+2	57	+7	NE	3	NW	o	*	-	64	46				

LONDON 17th DECEMBER 9h. G.M.T.	Humidity. 15 h. 16th	Humidity. 9 h. 17th	Sunshine for 16th	24 Hours ended 9 h. 17th. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	91	77	0·5	42	31	32	8	o	o	ors. o.
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	0·0	43	31	30	8	or	or	sr. bc.
CAMDEN SQ. (British Rainfall) ...	-	89	0·0	40	30	28	6			
S. KENSINGTON (Museum Grounds)	*	83	0·0	42	31	-		od	orq	q

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 16th ....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
70	2·4	10·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

GALES.
Duration and Extreme Force in British Isles

DEERNESS N.8. 21h to +7h

DONAGHADEE Gale since 8h (16th) Extreme NE. g at 12h

SCILLY Gale throughout NW 11, 40 m/s at 14h

FALMOUTH. Strong gale from noon.

PORTLAND Gale from 23h. NE. 9 at 3h

DUNGENESS. Gale from 17h, SE. veering NE. NE 9 from 23h

WICK. N.8. 2h–5h

ABERDEEN. Gust 24 m/s

LEITH. NE.8 from 17h

HOLYHEAD. ENE. 10. 31 m/s in afternoon

HARTLAND W.9 from 10h–14h

No Reports received from IRELAND

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20480 Tuesday, 18th DECEMBER ..... 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Cold weather was general over the British Isles, the afternoon temperature not exceeding 33° in places, and night frost occurred at nearly all stations. A little rain or snow fell locally. Sunshine varied from none in the north of Scotland to nearly six hours at Falmouth.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 17th December.....

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	9	1	38	27	ops	ops	0·0
	Montrose	-	-	36	33	bc	b	0·0
	St. Andrews	*	*	37	26	b	b	5·1
Engl. N.E.	Harrogate							
	Skegness							
England, E.	Felixstowe	6	Trace	37	32	bc	bch	4·1
	Southend-on-Sea	12	-	34	32	bc. b.	b.	4·4
England, S.E.	Margate	3	-	40	33	c	chq	0·3
	Hastings	10	2	37	32	os. bc.	bc. b	2·3
	Eastbourne	?	3	44	31	o.b.c.o.	o.c.	2·5
	Seaford	*	*					
	Worthing	4	-	35	32	b	b	3·7
	Littlehampton							
	Bournemouth	2	-	35	30	b	b	4·1
Scotld W.	Oban	-	-	37	24	bc.b	b	2·3
Engl. N.W.	Morecambe	1	-	35	34	*	*	5·4
	Southport							
Midlands.	Malvern	1	-	35	26	b. bc.	bc. b.	3·0
	Ross-on-Wye	1	-	37	26	bx. bc.	bx. b	2·3
Wales.	Rhyl							
	Colwyn Bay							
	Llandudno	*	*					
	Aberystwyth	*	*	38	30	cut.	bc. o.	2·5
England, S.W.	Weymouth	*	*	44	30	bc	bc h	4·4
	Torquay	1	-	38	32	b	b. o. b.	5·2
	Paignton	*	*					
	Penzance	7	-	41	36	cb c	be	4·6
	Newquay	2	Trace	39	34	o.b.bq.	o.b. oq.	3·4
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 17th December.....

	STATIONS.	Evening of 16th. Barom. Millibars at M.S.L.	Evening of 16th. Temp.	Evening of 16th. Wind Direc.	Evening of 16th. Wind Force 0–12.	Evening of 16th. Weather.	Morning of 17th. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1010·6	9	S	3	0	1011·4	+3	16	+4	NE	3	0	-	*	7
	Hangö	1002·3	27	-	0	c	1007·4	+3	30	+2	-	0	c	-	*	23
	Yuriev															
	Petrograd	999·4	21	ENE	2	0	1006·3	+4	25	-2	WNW	2	S	2	27	21
	Vijni Volotchok	996·8	30	S	2	0	1007·4	+6	25		SW	2	0	2	*	23
	Gorki						1011·5	*	19	-13	-	0	0	-	*	21
	Moscow	1004·6	32	SSW	2	0	1011·8	+5	28	-2	SW	2	0	-	*	27
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1011·9	32	NNE	1	0	1008·2	*	34	0	NE	1	0	7	39	32
	Turin	1011·0	34	-	0	5	1010·6	*	32	-2	-	0	S	1	?	?
	Pesaro	1010·1	41	-	0	T	1008·7	*	37	-9	-	0	T	1	46	36
	Leghorn	1007·1	45	-	0	0	1005·1	*	43	+7	E	1	bc	6	48	41
	Rome	1012·3	46	SE	1	T	1009·4	*	52	+22	SE	1	0	-	50	46
	Viesti	1014·1	48	SSE	2	bc	1010·9	*	50	+4	S	2	0	-	50	48
	Brindisi	1014·7	49	SE	4	b	1013·9	*	52	+6	E	2	bc	-	54	46
	Cagliari						1007·5	*	50	0	SE	5	b	-	56	?
	Palermo	1015·3	52	-	0	0	1012·9	*	54	+4	-	0	5	-	63	43
	Tripoli						1018·3	*	52	+6	SW	1	0	1	61	46
	Algiers															
Sweden.	Hernösand	1003·5	23	N	4	0	1003·1	*	23	-5	N	4	bc	*	*	*
	Stockholm	1003·4	19	NW	2	bc	1003·4	*	19	0	NW	2	0	*	*	*
	Wisby	1003·6	30	NW	2	5	1003·6	*	30	-4	NW	2	5	*	*	*

ICELAND.	Morning of 17th. Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord						
Reykjavik						
Vestmanna						
Seydisfjord						
Thorshavn	1028·6	23	+3	NW	2	0

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

18th and 19th Dec. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·3 / 8·3	11·50 / 11·50	3·37 / 3·37
Greenwich	8·4 / 8·4	11·57 / 11·57	3·50 / 3·50
Wick	9·2 / 9·2	12·9 / 12·9	3·16 / 3·16
Valencia	8·48 / 8·48	12·38 / 12·38	4·28 / 4·28

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF TUESDAY, 18TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

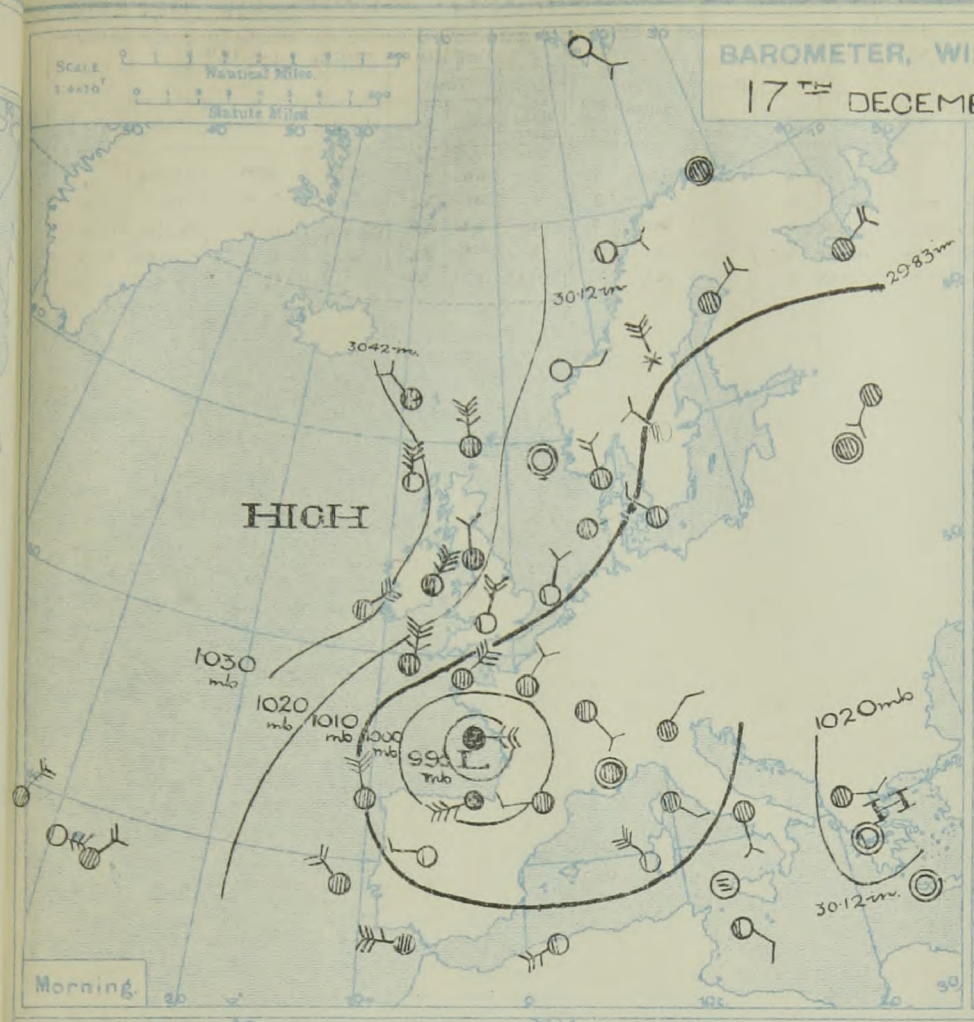
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◔ sky ¼ clouded.
◍ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

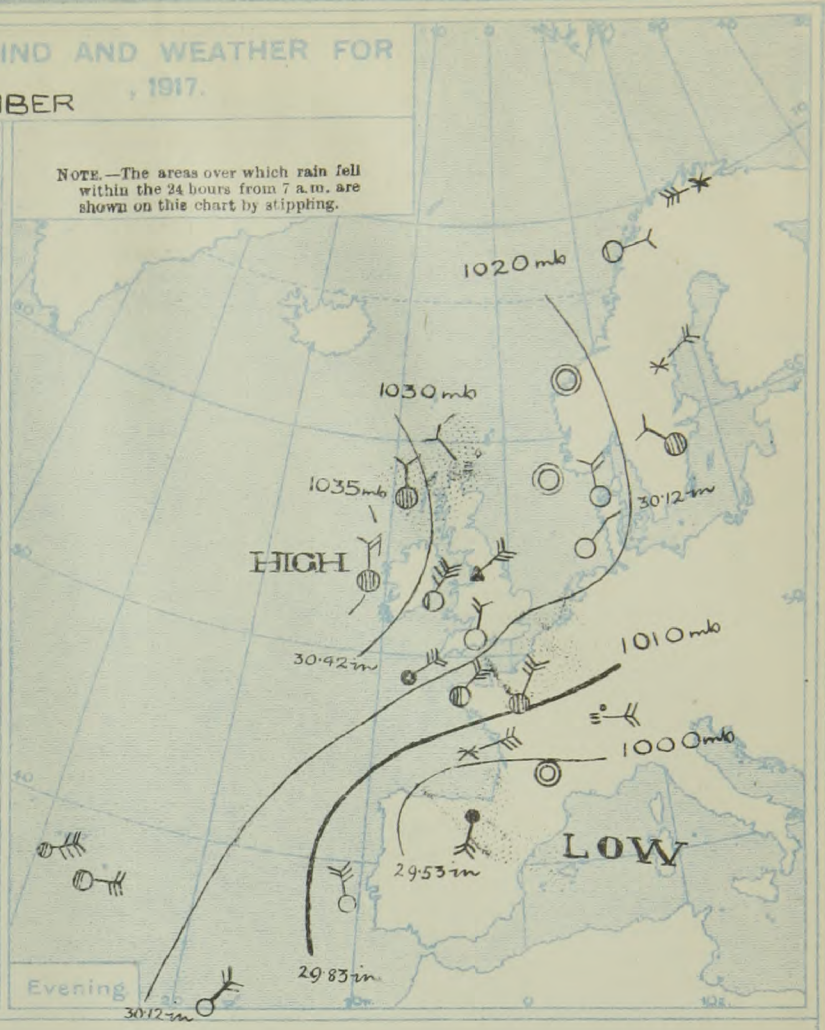
SEA DISTURBANCE.—Rough ~~ High ≈≈.

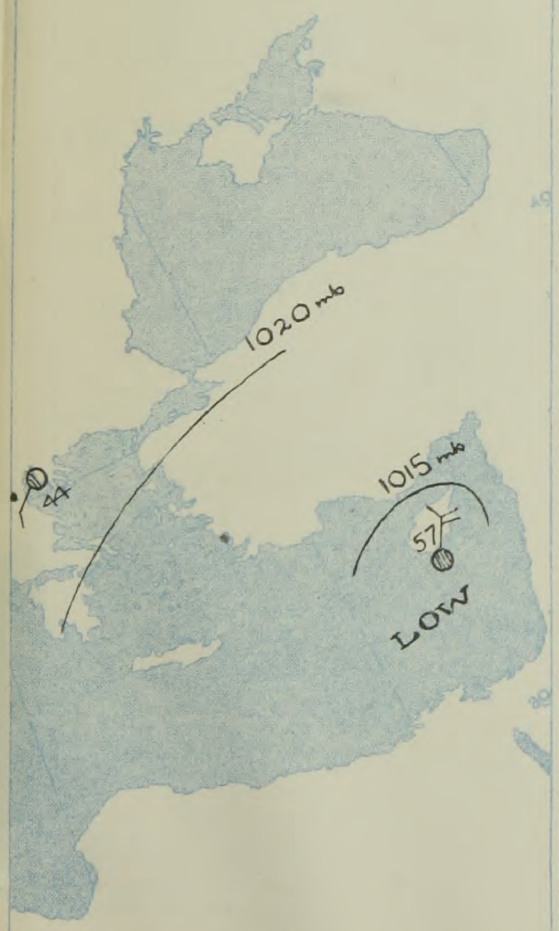
1005 mb −17 1010 mb
1015 mb
1020 mb
1025 mb
HIGH
30·27 in
30·12 in
29·97 in
29·83 in
1000 mb
LOW
29·53 in
29·68 in
LOW
1000 mb
1005 mb Barometer
1010 mb
1015 mb falling
1020 mb
1025 mb
1030 mb
HIGH
32° rising
30·12 in
29·97 in
1020 mb
1015 mb
29·83 in
50°
LOW
40°
1010 mb

Scale 1 : 2 × 10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.







The Present Situation

The central space of the anticyclone has moved in to the Irish Sea region, where the barometer stands above 1030 mb. The recent depression has passed away southward across the Mediterranean, but another has appeared in the far north, moving eastward from the Iceland region towards Scandinavia, the barometer being at 1000 mb. at Bodo. A West to South-West wind has set in over the northern regions, blowing strongly in Shetland and the Hebrides. The North-East wind is strong to high along the Channel and in some parts of France. In other regions there has been a general decrease in the force. Rain is falling at a few stations in the north, and snow locally in France.

The General Outlook

The barometer continues to give way over Scotland, and it seems probable that the somewhat milder Westerly wind current in the north will spread southward gradually, and ultimately influence the conditions over the whole country.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 352. Tuesday, 18th DECEMBER

	STATIONS.	EVENING OF 17th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0–12.	Weather.	MORNING OF 18th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 HOURS ENDED 7 A.M. 18th: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 17th. Hours.
BRITISH ISLANDS.	Lerwick ...	1026·9	34	NW	2	o	1013·4	−3	40	+3	S.W	6	–	omq	5	1	40	31	o.c.	om.	omfq	*
	Deerness (Orkney)	1029·1	33	WNW	3	o	1017·3	*	39	+4	S.W.	4	–	o	3	–	39	33	c.	c.o	oe	0·0
	Stornoway ...	1031·5	30	N	2	o	1018·8	−8	41	+11	WS.W	6	–	bcq	5	4	42	38	cfsq	c.o	cb.cfq	0·0
	Castlebay (Barra Isd.)	1033·1	35	NNE	2	c	1023·4	−2	46	+13	WNW	4	–	o	4	4	46	32	b.o	o.c	c.opr.c	0·2
	Glasgow ...	1031·6	29	WNW	2	bz	1028·4	−3	31	−1	WSW	1	–	oq	*	Trace	33	25	bc.b.bc	bc.b	bf.osp	4·6
	Eskdalemuir ...						1029·7	−2	25		–	o	–	o	*						b.bs.o	6·0
	Malin Head ...																					
	Blacksod Point	1034·8	36	NNE	5	bc													bc.ph	bc.ph		*
	Valencia (Cahirciveen)																					
	Roche's Point							*		*												*
	Birr Castle ...							*							*							
	Donaghadee ...	1030·3	37	NNE	5	bcmq	1029·8	o	34	−1	SW	2	–	ogm	1	–	37	32	bcmq	bcq	bcqom	*
	Liverpool (Bidston)	1028·2	35	NNW	3	bc	1030·1	+1	32	0	N	1	N	b	1	–	37	31	b	b.c.	bc	3·7
	Holyhead ...	1028·7	38	NE	7	b	1030·4	0	38	+2	NE	4	NE	bc	4	–	41	35	cq	cb.cb	b.bc.cb	0·4
	Pembroke (St. Ann's)	1026·8	39	N	4	bcq	1029·9	+1	36	+3	N	2	–	b	2	Trace	39	34	cq.ph	cq.bcq	cq.bc.b	1·4
	Hartland Quay						1028·8	+2	39		NNE	5	–	bq	4	–	41	34			cq.bcq	*
	Scilly (St. Mary's)	1024·5	42	NE	7	cqp	1028·4	+1	41	+3	NE	4	NE	c	6	Trace	43	38	cq	cqp	cqp.c	4·7
	Falmouth ...	1023·4	37	NNE	6	bq	1028·0	+1	34	−1	NNE	2	–	b	*	–	38	32	bq	bqq	bq.bx	5·8
	Jersey (St. Aubin)						1022·2	*	40	+1	NE	6	–	c	4	9	40	31			b.ogc	1·0
	Portland Bill ...	1020·0	34	NE	5	b	1025·4	+3	31	−5	NNE	4	NE	bc	4	–	36	31	bc.b	bc	bc	*
	Dungeness ...	1016·5	36	NE	6	bcq	1023·6	+3	38	+2	ENE	7	E	bcq	7	3	38	33	eq.ps	bcq	cqrs.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1030·0	32	WNW	2	omq	1018·7	−4	36	0	WSW	4	–	T	4	Trace	36	29	omq	omq	omqT	*
	Nairn	1030·8	33	N	2	cd	1021·6	*	36	+2	NW	2	–	ou	2	–	36	27	ch.c.	bc	bcq	0·0
	Aberdeen ...	1029·6	34	WNW	5	bc	1023·7	−4	31	−6	SW	2	–	o	2	Trace	38	28	c.osp	osp.bc.	bc.c.o	0·2
	Leith	1030·6	34	NW	3	c	1027·0	−2	34	−2	SW	2	–	o	1	–	37	28	cb.bc.b	b	b.bcu.o	*
	Tynemouth ...	1025·7	39	NE	5	cmq.ph	1028·5	o	30	−6	N	2	–	o	3	6	39	27	cq.mph	cq.mph	om	*
	Spurn Head ...	1023·2	37	ENE	4	bq	1027·9	+2	37	−5	ENE	2	–	bx	5	–	39	32	bcq	bcq	bx	4·2
	Yarmouth (Gorleston)	1019·5	37	NE	8	bc	1026·2	+4	37	o	E	6	–	bcx	5	1	39	34	bcq	bcq	bcq.ph	5·0
	Clacton-on-Sea	1019·5	34	NNE	4	bc	1025·9	+3	32	−3	N	2	–	bc	7	Trace	37	31	bc	bcps.c.	bc	3·2
	Nottingham ...	1023·9	35	N	4	b	1028·0	*	31	+3	N	3	–	b	*	Trace	36	27	cs	bcs.b.	cs.b	2·1
	Benson (Oxon.) ...	1021·8	30	N	4	b	1027·3	+3	30	o	NNE	3	–	om	*	Trace	34	24	b.bc	b	os	*
	Sth Farnborough	1021·1	32	N	3	b	1027·0	+3	30	−2	N	3	NW	bcm	*	Trace	33	28	b.om	om.b	bm.bcm	2·4
	Salisbury Plain						1027·5	+4	31	+2	N	4	–	o	*	–	34	25			bc.c.o	*
	London (Kew Obsy.)	1021·2	33	NNE	3	bx	1026·8	+3	31	−4	NNE	2	–	bmx	*	Trace	33	30	b.bc.b	b.bm.bx	bc.bmx	4·3
NORTHERN EUROPE.	Spitsbergen ...	1015·6	−24	SE	1	b	1009·1	−4	−17	+9	SSE	1	*	b	*	*	−24	−27				
	Vardö	1017·2	25	W	6	s	1012·7	−1	21	+4	S	6	–	s	3	*	27	21				
	Bodö	1016·7	23	E	2	b	1000·8	−10	32	+12	SE	5	–	bc	3	–	23	16				
	Christiansund ...	1020·8	30	–	0	b	1009·9	−8	37	+10	WNW	4	–	bc	4	–	30	27				
	Skudesnaes ..	1023·6	21	–	0	b	1022·6	−1	36	−1	SE	5	–	c	3	–	27	19				
	Færder (X'tiania Fjord)	1021·4	28	N	5	b	1025·6	+1	23	−2	–	0	–	bc	1	–	28	23				
	The Scaw (Skagen)	1019·9	28	N	3	q	1024·7	+3	30	+7	NE	1	–	c	1	–	30	27				
	Blaavands Huk	1023·0	27	NE	1	b	1025·7	+1	32	+4	–	0	–	o	*	–	32	23				
	Copenhagen ...	1019·1	27	NNE	3	o	1025·0	+1	27	−3	NE	2	–	c	*	–	30	23				
	Bornholm ...	1016·6	30	NE	3	c	1023·6	+2	27	−5	NNE	2	–	o	–	–	34	23				
FRANCE, &c.	The Helder ...	1019·8	36	NE	3	b	1027·0	+3	32	−4	ENE	2	–	bc	1	1	32	27				
	C. Gris Nez ...	1016·3	36	NE	6	s	1023·0	+3	32	−4	ENE	4	*	b	4	2	41	27				
	La Hève	1017·1	32	NE	6	s	1019·8	*	32	−1	NE	5	*	b	6	–	37	32				
	Brest (St. Mathieu)	1018·6	39	NE	5	c	1023·6	+2	39		NE	4	*	c	3	–	43	39				
	Rochefort (Ile d'Aix)	1006·3	36	ENE	7	o	1012·3	+1	32	−7	NE	7	*	s	*	9	48	36				
	Biarritz	995·9	43	SSW	4	T	1008·2	+1	37	−7	ENE	3	*	o	4	22	45	34				
	Paris	1010·7	34	NNE	5	o	1016·7	+3	32	−2	NNE	4	–	o	*	–	34	30				
	Belfort	1007·0	18	E	4	m	1016·8	*	23		E	5	*	c	*	–	32	19				
	Lyons	1003·4	14	–	0	b	1011·9	*	30	−7	NNW	1	*	s	*	6	30	?				
	Nice												*									
	Perpignan ..	999·1	39	N	1	b	1006·7	+5	37	0	WNW	2	W.S.W	o	*	–	48	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon	1008·4	48	NNW	5	o	1009·1	+6	43		NNE	4	–	b	6	–	46	46				
	Azores (Horta) ...		*										*									
	Madeira	1018·0	59	NE	4	c	1017·4	0	54	•	NNE	6	N	T	5	–	66	54				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1018·2	+1	54	o	SSW	1	–	bc	–	2	63	54				
	Limassol	*	*	*	*	*	1018·0	o	57	o	NE	3	–	o	4	–	63	54				
	Alexandria ...																					
	Cairo (Helwan) ...														*							

GALES.
Duration and Extreme Force in British Isles.

SCILLY
NNE. 8 from 7–9h. (17th)

PORTLAND
NE. 9 from 23h (16th)–8h. (17th)

DUNGENESS
NE 9 from 23h (16th)–8h (17th)

DONAGHADEE
NE 9 until 8h (17th)

LEITH
NE 8 from 7–10h (17th)

YARMOUTH
E 8 from 5h (17th)–2h (18th)

LONDON 18th DEC. ...9h. G.M.T.	Humidity. 15 h. 17th	Humidity. 9 h. 18th	Sunshine for 17th. Hours.	24 Hours ended 9 h. 18th: Temperature. Max. °F.	Temperature. Min. °F.	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	81	85	2·4	34	29	25	–	bc.b.	b	b
CITY (Bunhill Row)	*	*	2·8	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	84	87	2·6	35	30	26	–	b	b	m
CAMDEN SQ. (British Rainfall) ..	84	95	3·1	35	28	24	–	bc	b	*
S. KENSINGTON (Museum Grounds)	*	87	3·1	35	30	–	–	b	b bc	bc x

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during ..17th....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
290	7·1	14·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 29.481 Wednesday, 19th DECEMBER....1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Over our Northern and Western districts temperature exceeded 40° and touched 48° in the Hebrides. Elsewhere low maxima ruled, 33° in the Midlands. Sharp frost occurred in the night, minima below 20° in the Thames Valley. Moderate rain fell over Scotland. The day was sunless in the north, generally bright in the south, over seven hours of sunshine at Falmouth and Penzance.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 18th DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 18th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	44	30	c	o	0·0
	Montrose	-	-	41	33	o	o	0·0
	St. Andrews							
Eng. N.E.	Harrogate	2	-	33	27	bc. o	bc. o	0·5
	Skegness	Trace	-	40	29	bc	b	6·4
England, E.	Felixstowe	-	-	39	30	bc v	bc v	2·6
	Southend-on-Sea	1	-	37	28	bc. c	bc. c.	3·5
England, S.E.	Margate	1	-	39	32	bc. b	bc	3·9
	Hastings	2	-	37	30	o. o. bc. b.	b	6·2
	Eastbourne	-	-	38	28	b	b	6·0
	Seaford	*	*					
	Worthing							
	Littlehampton							
	Bournemouth	-	-	37	30	b	b	6·2
Scotland W.	Oban	1	1	48	29	o	or	0·0
Eng. N.W.	Morecambe	-	-	36	29	*	*	0·0
	Southport	-	-	36	29	c. o	o	0·0
Midlands.	Malvern	-	-	35	29	b	b	5·0
	Ross-on-Wye	-	-	37	29	b	bc m	4·3
Wales.	Rhyl	-	-	35	28	ox	gx	0·0
	Colwyn Bay	-	-	39	34	bc	c	0·0
	Llandudno	*	*	40	33	c	c	0·0
	Aberystwyth	*	*	37	29	o. cb	c. o. o	1·3
England, S.W.	Weymouth	*	*	37	31	b3	b3	6·5
	Torquay	-	-	41	33	bc. b.	b	5·0
	Paignton	*	*					
	Penzance	-	-	42	35	bc b	b	7·1
	Newquay	-	-	39	33	b	b	6·5
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 18th DECEMBER.....

	STATIONS.	Evening of 18th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 19th: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1018·3	28	-	o	s									*	
	Yuriev															
	Petrograd	1019·0	19	SW	3	o	1025·1	+2	18	+9	SSE	3	o	1	26	14
	Vijni Volotchok	1022·1	21	SW	2	o										
	Gorki	1025·3	21	-	o	o		*							*	
	Moscow	1025·6	16	SW	3	b									*	
	Kiev	1026·7	25	SE	4	b									*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad	1029·0	25	ESE	2	b									*	
	Nicolaiev							*							*	
	Odessa	1019·1	32	WSW	2	b									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice						1016·2	*	43	+9	NE	1	o	8	43	36
	Turin						1017·8	*	34	+2	-	o	f	8	34	32
	Pesaro						1016·5	*	45	+8	-	o	c	Trace	45	36
	Leghorn						1012·5	*	52	+9	SSE	1	c	9	55	52
	Rome						1016·2	*	54	+2	SE	1	o	2	55	50
	Viesti						1018·7	*	30	-20	SE	2	bc	-	54	52
	Brindisi						1018·9	*	52	o	SE	1	b	-	59	52
	Cagliari						1008·9	*	52	+2	SE	4	o	-	59	46
	Palermo						1016·3	*	50	-4	S	2	f	-	64	46
	Tripoli						1019·3	*	46	-6	S	1	b	Trace	63	43
	Algiers	1003·7	52	S	1	b	1006·6	+4	45		WSW	3	r	6	61	45
Sweden.	Hernösand						1022·4	*	18	-5	-	o	o	*	*	*
	Stockholm						1017·6	*	23	+4	N	2	b	*	*	*
	Wisby						1023·0	*	30	o	WNW	2	o	*	*	*

Morning of 19th.....

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	993·2	30		-	o	bc
Reykjavik	996·2	18		-	o	b
Vestmanna	996·7	34		SW	3	o
Seydisfjord	995·4	28		W	2	b
Thorshavn	998·1	40	+17	W	2	r

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

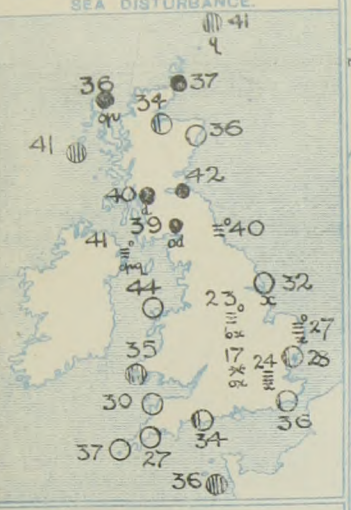
19th and 20th DEC 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·3	11·50	3·37
	8·4	11·51	3·38
Greenwich	8·4	11·53	3·50
	8·5	11·58	3·51
Wick	9·2	12·14	3·16
	9·3	12·10	3·17
Valencia	8·48	12·38	4·28
	8·49	12·39	4·29

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

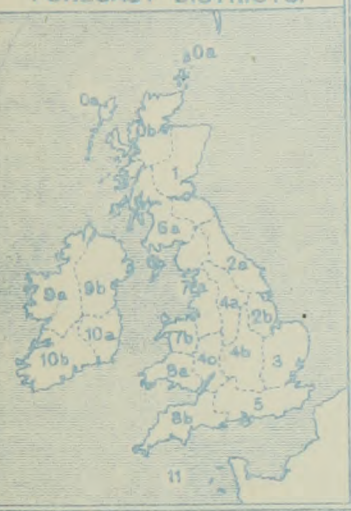
‡ The barometric change is expressed in half-millibars.

THE MORNING OF WEDNESDAY, 19TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.



EXPLANATION.

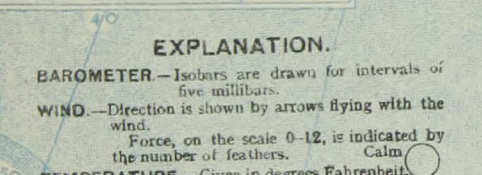
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

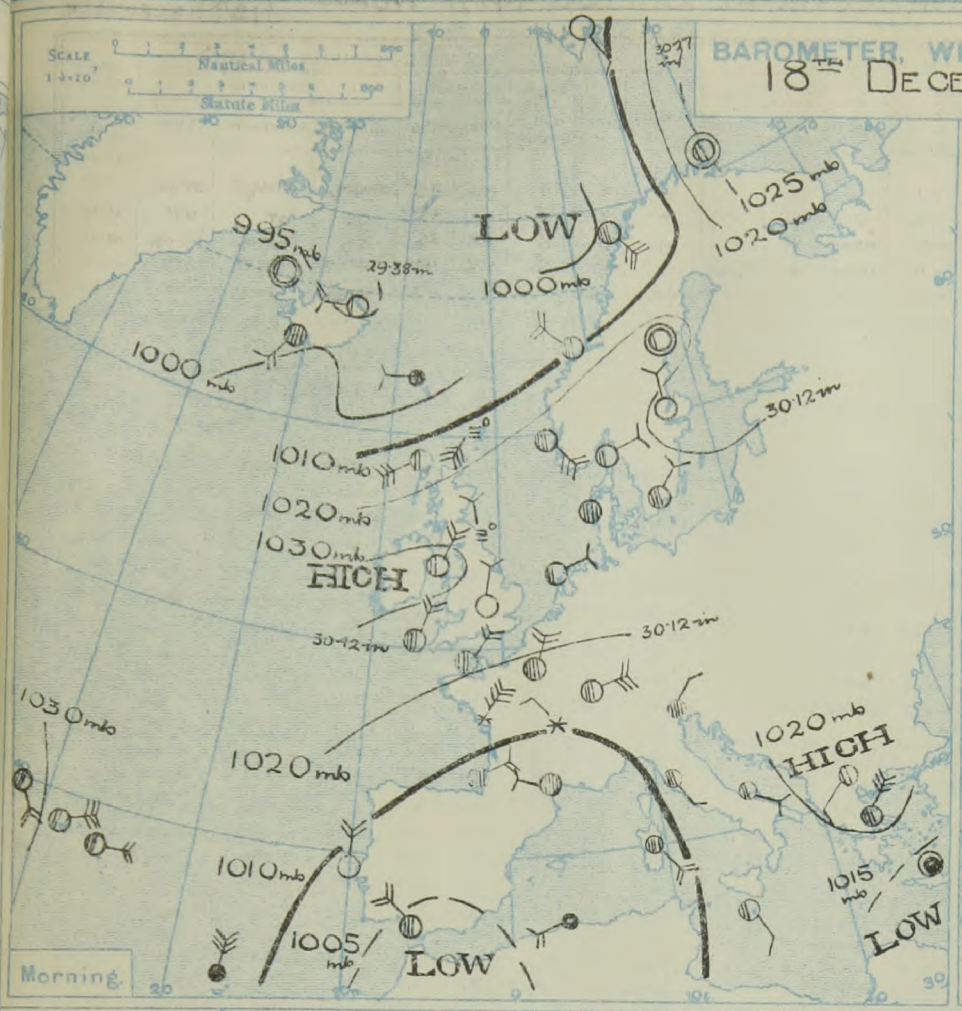
WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ½ clouded. ◍ sky ⅞ clouded.
◍ sky ⅞ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

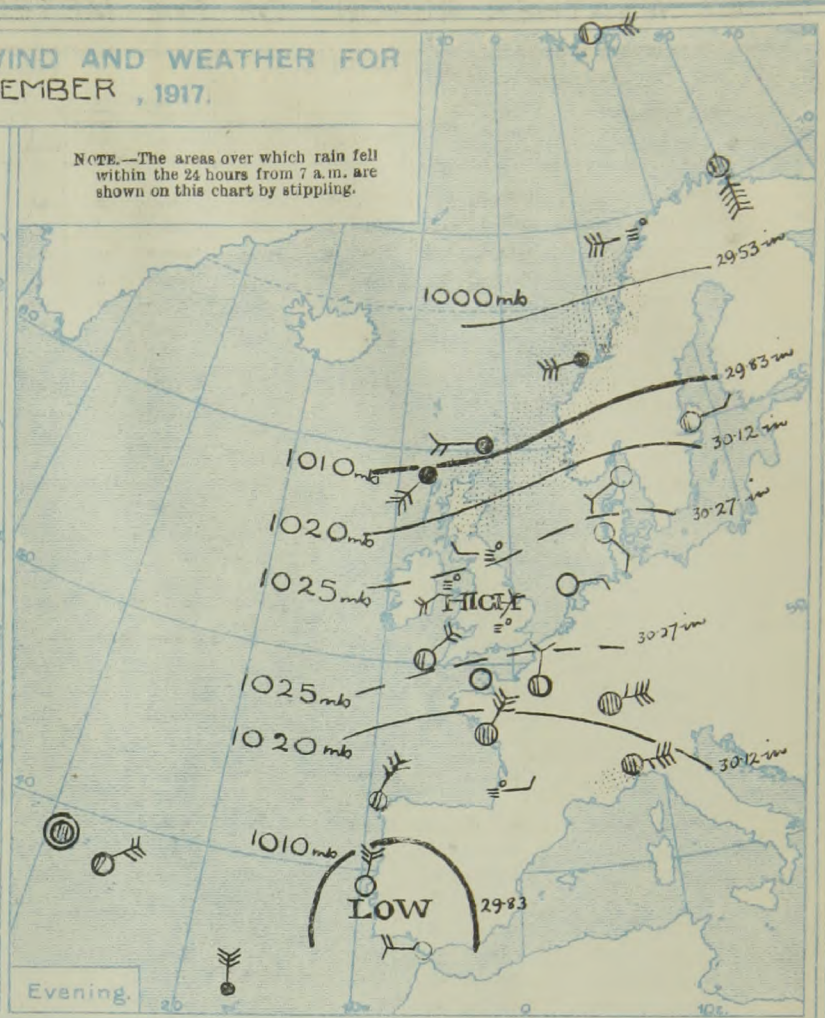


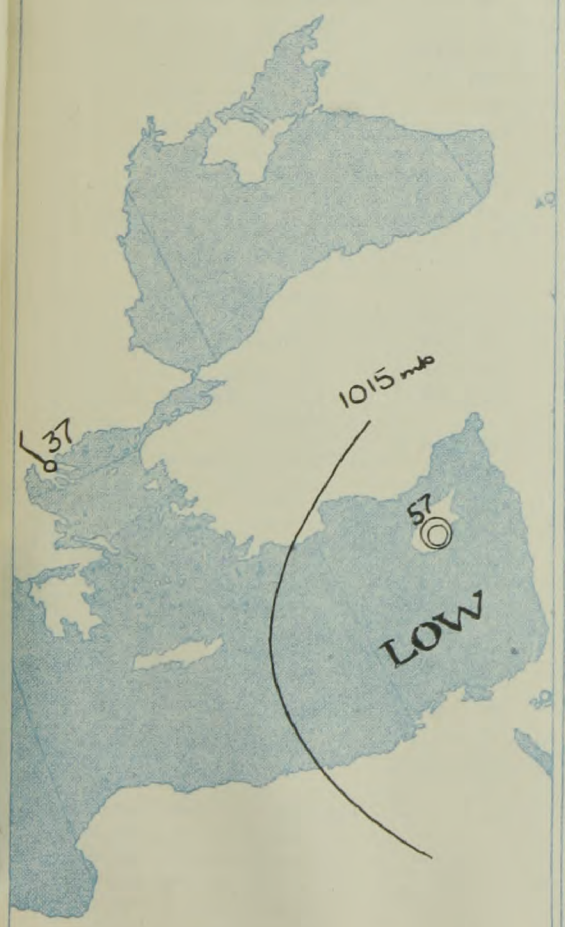
LOW
990 mb
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
HIGH
Barometer
Stationary
HIGH
LOW
1010 mb
(1022·4 mb)
(1030·8 mb)
29·24 in
29·38 in
29·53 in
29·68 in
29·83 in
29·97 in
30·12 in
30·27 in
30·42 in
40°
20°
32°
24°

BAROMETER, WIND AND WEATHER FOR 18TH DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

Pressure is highest, 1030 mb., out at the Azores and on the Baltic, connected by a belt of high readings extending across Southern England and the Netherlands. A deep depression is centred between Norway and Spitzbergen, and a shallower one over the south-east of Spain. The high pressure belt separates the Westerly wind current over the northern regions from the Easterly current in the south. Light to moderate breezes prevail extensively, but a high wind is reported at Ushant, Christiansund and on Christiania Fjord, a gale in Lapland. The sky varies between cloudless and overcast, rain falling locally in Scotland, Madeira and the south of France, slight snow near Oxford. In London the atmosphere is foggy.

The General Outlook

The information at present available affords no indication of any marked change in the general situation, but reports from Ireland and Iceland are wanting.

R. G. K. LEMPFERT. Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 353. Wednesday 19th DECEMBER

	STATIONS.	EVENING OF 18th... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF... 19th... Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M... 19th... Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 19th.
			°F.					:	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1006·3	43	W	3	or	1009·0	0	41	+1	W	5	-	ag	4	11	46	35	cmbq	cmqr	or bc.	*
	Deerness (Orkney)	1010·1	43	SW	4	or	1013·5	*	37	-2	W	2	-	r	2	7	44	35	oe	or	or	0·0
	Stornoway ...	1012·4	45	SW	6	orq	1015·4	0	36	-5	WSW	4	-	ob	3	8	48	35	aq	orq	bc.ob	0·0
	Castlebay (Barra Isd.)	1017·5	48	WSW	5	o	1017·4	0	41	-5	WNW	4	SW	c	4	5	48	41	c.or o	or o	or.db	0·0
	Glasgow ...	1022·2	40	SSW	2	omd	1019·4	+1	40	+9	WSW	2	-	od	*	4	42	38	apad	omd	omd.ap	0·0
	Eskdalemuir ...	1027·9	31	S	2	odm	1020·3	-2	39	+14	SW	4	-	od	*	5	40	24	o om	o osrm	ome od	0·0
	Malin Head ...																					
	Blacksod Point	1025·1	46	WSW	5	ag													be	cg		*
	Valencia (Cahirciveen)	1030·2	40	-	0	o													c.bcg	c.ogd.		
	Roche's Point	1030·2	34	SE	1	b		*											osp m	o m b		*
	Birr Castle ...							*							*							
	Donaghadee ...	1025·1	40	W	4	ogmq	1019·8	-3	41	+7	W	4	-	omqp	4	0·4	41	32	ogm	agm	algmqp	*
	Liverpool (Bidston)	1028·8	36	SSW	1	o	1025·1	-2	35	-3	S	1	S	b	1	-	37	32	o.c	c	b	0·0
	Holyhead ...	1027·8	41	SW	4	cmq	1024·1	-2	44	+6	SW	4	-	b	3	-	44	35	oxv cm	omq	o.cbcb	0·0
	Pembroke (St. Ann's)	1028·7	36	SW	1	bxm	1028·1	0	35	-1	ENE	1	-	o	1	-	40	34	bm	bm	cb.cbc	2·2
	Hartland Quay	1029·5	34	E	3	b	1027·8	0	30	-9	E	3	-	b	2	-	41	29	bcq.b	b	b.bx.	*
	Scilly (St. Mary's)	1028·4	40	NE	4	bc	1027·3	0	37	-4	ENE	3	-	b	4	-	43	35	cb.c.	bc	bc.b	1·4
	Falmouth ...	1028·5	33	NNE	2	b	1027·9	0	27	-7	NNE	2	-	b	*	-	39	25	b	b	b	7·2
	Jersey (St. Aubin)	1022·8	39	NE	6	b	1023·4	*	36	-4	ENE	4	-	o	3	-	42	35	cb	bc.b	b.o.	4·7
	Portland Bill ...	1026·4	34	NE	4	b	1026·0	0	34	-3	ENE	4	-	bc	4	-	37	31	bc	bc	b.bc	*
	Dungeness ...	1025·4	37	ENE	5	b	1025·6	0	36	-2	ENE	3	-	b	3	-	39	34	bcq	cq b	cq.bc	*
	Dover	*	*	*	*	*													*	*		
	Wick	1012·1	42	SSW	4	cm	1014·6	0	35	-1	W	2	-	bc	2	3	45	33	omq	cmq	or.bcm	*
	Nairn						1016·2	*	34	-2	W	1	-	bc	1	7	45	32			cprq	0·0
	Aberdeen ...	1017·7	38	SSW	4	o	1017·3	+1	36	+5	-	0	-	b	2	1	45	30	o3.c	c3.o	or.bcb	0·0
	Leith	1021·5	42	SW	2	o	1018·5	0	42	+8	WSW	1	-	r	2	1	44	34	o.c.ogo	og.og.o	omq.or	*
	Tynemouth ...	1024·4	36	W	1	om	1020·9	-3	40	+10	S	6	-	om	4	1	40	39	om	om	om	*
	Spurn Head ...	1028·7	36	SW	1	bxm	1026·1	-1	32	-5	WSW	3	-	bx	3	-	39	30	bm	bm	bx	5·6
	Yarmouth (Gorleston)	1028·4	37	E	4	c	1026·9	-1	27	-10	NNW	1	-	bmx	2	-	39	26	bc	bc.c.	bc.bmx	1·0
	Clacton-on-Sea	1028·3	37	ENE	3	c	1027·2	0	28	-4	NNW	2	-	bc	1	-	39	27	bcv	bcv.c	cbcbx	2·7
	Nottingham ...	1029·3	28	SW	1	b	1026·9	*	23	-8	W	1	-	bmx	*	-	33	21	bm	bcm	bm	1·6
	Benson (Oxon.) ...	1029·5	26	NNE	1	bc	1027·9	0	17	-13	N	1	-	oxs	*	0·1	33	16	bm	b	bcfx	*
	Sth Farnborough	1028·5	31	NNE	3	cm	1028·1	0	18	-12	N	1	-	bmx	*	-	36	18	bcsp.bm	bm.o.cm	bcmx	5·4
	Salisbury Plain	1028·9	25	NNE	3	b	1027·7		20	-11	NE	1	-	bx	*	-	36	18	b	b	bx	*
	London (Kew Obsy.)	1028·4	35	NNE	2	bcm	1027·9	+1	24	-7	-	0	-	fx	*	Trace	34	23	bmx.fz	bm bcm	bcm fx	3·8
NORTHERN EUROPE.	Spitsbergen ...	999·2	3	E	5	bc	989·1	-3	5	+22	E	6	*	b	*	*	7	-6				
	Vardö	1005·5	25	S	10	o	996·8	-1	30	+9	SW	8	-	o		*	?	?				
	Bodö	995·2	39	SW	6	m	995·8	0	36	+4	W	4	-	c	2	3	39	30				
	Christiansund ...	1014·6	41	W	6	r	1003·5	0	39	+2	SW	7	-	o	?	21	?	?				
	Skudesnaes ..	1016·4	41	S	9	r	1012·6	-3	43	+7	SW	2	-	o	3	11	41	36				
	Færder (X'tianiaFjord)	1020·7	37	SW	6	o	1013·9	-2	41	+18	SW	7	-	o	4	-	38	23				
	The Scaw (Skagen)	1025·9	30	SW	2	b	1020·3	-1	36	+6	SW	3	-	o	3	-	36	?				
	Blaavands Huk	1028·3	30	SE	1	b	1027·1	0	36	+4	SW	4	-	c	*	-	37	25				
	Copenhagen ...	1028·8	27	N	1	b	1029·1	+1	30	+3	SW	3	-	m	*	-	30	23				
	Bornholm ...	1027·8	27	NNE	2	o	1030·0	+1	30	+3	WSW	3	w	o	1	-	36	23				
FRANCE, &c.	The Helder ...	1028·5	30	E	1	b	1027·9	-2	23	-9	SSE	1	-	b	-	-	34	23				
	C. Gris Nez ...	1025·8	32	E	4	b	1026·3	0	27	-5	E	3	*	b	2	-	37	27				
	La Hève							*					*									
	Brest (St. Mathieu)	1023·6	39	NE	4	bc	1022·4	+1	30	-9	NE	5	*	c	4	1	43	36				
	Rochefort (Ile d'Aix)	1015·2	34	NE	6	o	1017·4	+2	35	+3	ENE	4	*	o	*	-	29	28				
	Biarritz	1011·9	36	NE	1	m	1015·4	+1	32	-5	NE	1	*	m	3	-	37	30				
	Paris	1022·3	28	NNE	2	bc	1024·2	+1	21	-11	NE	2	-	o	*	1	34	21				
	Belfort	1021·1	27	E	7	o	1024·4	*	24	+1	E	6	*	m	*	-	29	22				
	Lyons							*					*		*							
	Nice	1016·3	52	E	7	c	1020·2	+1	46		E	3	*	r	7	14	52	41				
	Perpignan ..	1018·7	?	?	?	?	1013·5	-1	37	0	WSW	2	-	r	*	21	45	32				
	Sanguinaire							*					*									
SOUTHERN STATIONS.	Corunna	1018·7	43	NNE	5	bc	1017·1	+1	41		SSE	2	-	r	-	5	46	39				
	Madrid														*							
	Lisbon	1009·8	45	NNE	5	b	1013·2	0	39	-5	N	3	-	bc	5	-	48	39				
	Azores (Horta) ...	1031·1	*	-	0	o	1030·8	+1	55		S	4	*	o	2	-	61	54				
	Madeira	1018·4	57	N	6	r	1021·6	0	55	-1	N	5	-	r	4	-	61	52				
	Gibraltar	1007·4	46	W	3	b	1008·4	*	42		W	4	*	o	3	-	50	40				
	Malta	*	*	*	*	*	1021·0	+1	57	-3	SSW	1	-	b	-	-	63	54				
	Limassol	*	*	*	*	*	1012·4	+1	57	0	-	0	-	o	4	-	64	55				
	Alexandria† ...	1012·3	57	WSW	3	b	1013·5	+1	54		SW	2	-	o	1	-	63	50				
	Cairo (Helwan)† ...	1013·2	57	S	1	b	1015·2	+2	48		S	2	-	o	*	3	72	46				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 19th. DECEMBER 9h. G.M.T.	Humidity. 15 h. 19th.	Humidity. 9 h. 19th.	Sunshine for 19th.	24 Hours ended 9 h 19th... Temperature. Max.	Temperature. Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	75	81	5·1	36	18	17	-	b	b.c.	f
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	87	92	0·4	37	24	23	-	bm	bm	f
CAMDEN SQ. (British Rainfall) ..	82	-	3·5	37	22	19	-	bc	bc	*
S. KENSINGTON (Museum Grounds)	*	?	3·5	36	26	-	-	bc.b	bc.c.	f

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 18th...

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
190	6·7	13·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,482, THURSDAY, 20TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

The day was very cold over Southern England, temperature not rising above 24° at Benson (Oxon), while during the night a minimum of 13° was registered on Salisbury Plain. Milder conditions ruled in the north and west. Rain, locally snow, fell in Scotland and Ireland, 20 mm. at Glasgow. The day was sunless in the north-west, very sunny in south and east England, ranging up to seven hours at Newquay.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 19TH DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 19TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	2	—	41	32	c. b.	b. o	4·2
	Montrose							
	St. Andrews	*	*	43	36	c	c	2·2
Eng. N.E.	Harrogate							
	Skegness	—	—	40	24	b.	b.	1·9
England, E.	Felixstowe	—	—	36	24	bm	bm	6·0
	Southend-on-Sea	—	—	36	25	bz	bz	6·0
England, S.E.	Margate	—	—	39	34	b	b.	5·4
	Hastings	—	—	35	28	b	b	5·2
	Eastbourne	—	—	36	26	b.	bc.	4·3
	Seaford	*	*					
	Worthing	—	—	34	26	b	b.	6·1
	Littlehampton							
	Bournemouth	—	—	37	24	b.	b.	6·5
Sc'tld W.	Oban	8	3	47	38	c.	o b.	0·9
Eng. N.W.	Morecambe	—	3	40	33	*	*	0·0
	Southport	—	—	39	32	c. o.	o	0·0
Midlands.	Malvern	—	—	34	18	b.	b.	5·0
	Ross-on-Wye	—	—	33	16	x b c m	b c x	0·6
Wales.	Rhyl	—	—	44	34	o	o	0·0
	Colwyn Bay	—	—	45	36	b c.	b c.	0·1
	Llandudno	*	*	47	36	c.	c.	0·1
	Aberystwyth	*	*	42	31	o c. c.	c. o. o	0·3
England, S.W.	Weymouth	*	*	37	28	z b.	b z	6·4
	Torquay	—	—	39	27	b.	b. b c. b.	6·0
	Paignton	*	*					
	Penzance	—	—	45	30	b.	b. b c.	5·2
	Newquay	—	—	43	25	b.	b.	6·9
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 19TH DECEMBER

	STATIONS.	Evening of 18TH. Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0-12.	Weather.	Morning of 19TH. Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1024·4	+1	18		S W	3	o	—	*	16
	Hangö	1024·0	32	E S E	2	b c.	1023·0	−1	34		W S W	3	c.	—	*	23
	Yuriev															
	Petrograd						1026·6	+1	18	0	S S E	2	b.	—	23	12
	Vijni Volotchok						1027·9	−1	16		—	0	o	—		16
	Gorki	1025·0	25	—	o	o		*							*	
	Moscow	1031·5	19	S E	b c.	o	1025·6	−1	28		S E	2	o	5	*	
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1022·7	43	N	1	b	1024·7	*	36	−7	N W	1	f	—	50	36
	Turin							*								
	Pesaro	1023·3	41	—	o	c	1025·7	*	39	−6	—	o	f	—	52	37
	Leghorn	1019·5	52	—	o	o	1021·5	*	50	−2	—	o	o	1	57	48
	Rome	1021·3	54	S E	1	b	1023·1	*	43	−11	—	o	b.	—	59	49
	Viesti	1022·5	52	—	o	b.	1024·2	*	50	+20	N W	1	b.	—	56	30
	Brindisi	1020·9	52	S E	1	b.	1021·8	*	48	−4	N W	1	b.	—	57	48
	Cagliari	1012·5	52	S E	4	b.	1015·1	*	54	+2	S E	5	b	—	59	46
	Palermo	1019·0	46	E N E	1	b	1021·8	*	46	−4	—	o	b	1	54	37
	Tripoli							*								
	Algiers	1008·7	46	W S W	2	o	1003·8	+4	54	+9	S S W	6	o	8	54	44
Sweden.	Hernösand	1014·2	23	S W	4	c	1009·8	*	30	+12	S	2	c	*	*	*
	Stockholm	1024·2	23	—	o	b c	1020·6	*	28	+5	S S W	2	o	*	*	*
	Wisby	1024·3	25	N W	4	o	1026·0	*	30	0	W S W	4	b	*	*	*

Morning of 19TH.

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0-12.	Weather.
		°F	°F			
Isafjord	1022·4	14	−16	N	8	o
Reykjavik	1020·6	18	o	N E	1	b.
Vestmanna	?	21	−13	N	4	b.
Seydisfjord	1015·3	18	−10	N	4	S
Thorshavn	1003·5	31	−9	N N E	2	o

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

20TH AND 21ST DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.4	11.51	3.38
	8.4	11.51	3.38
Greenwich	8.5	11.58	3.51
	8.5	11.58	3.51
Wick	9.3	12.10	3.17
	9.3	12.10	3.17
Valencia	8.49	12.39	4.29
	8.49	12.39	4.29

Printed at the Meteorological Office, South Kensington, London, S.W. 7.
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‡ The barometric change is expressed in half-millibars.

THE MORNING OF THURSDAY, 20TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

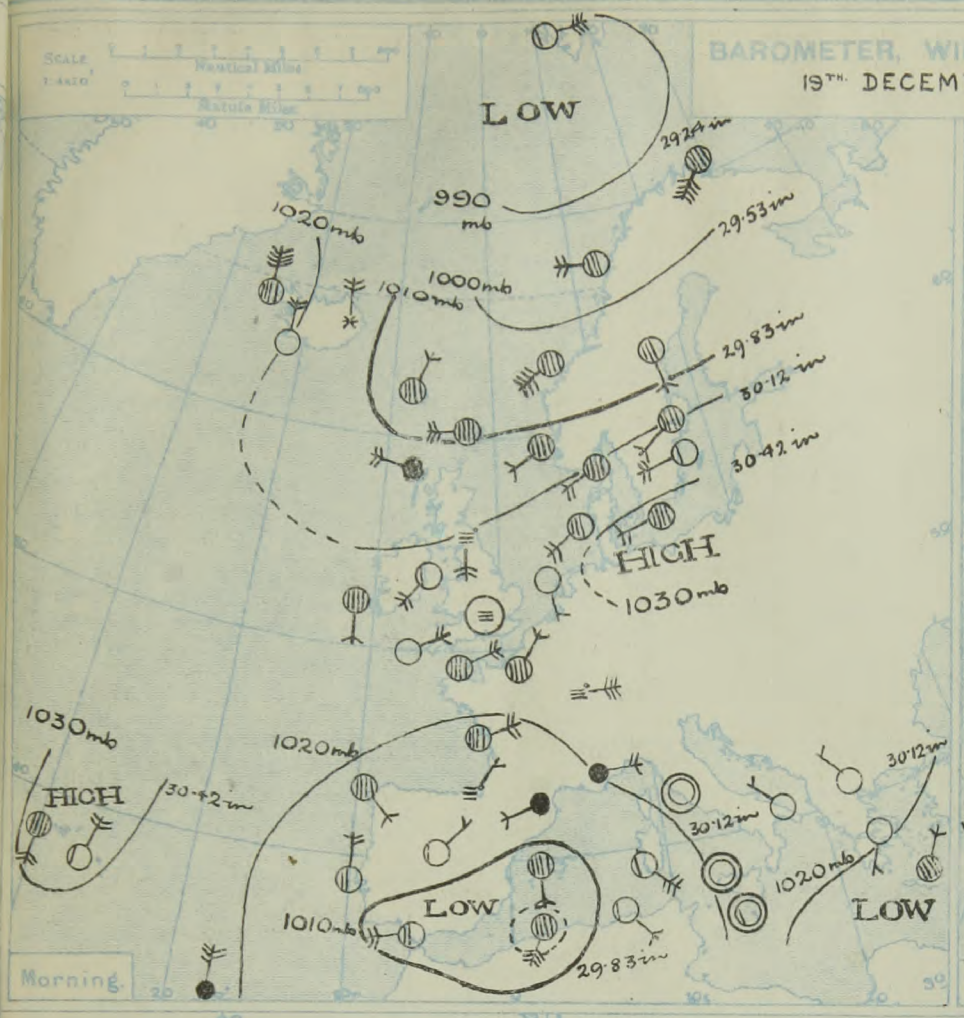
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◑ sky ¾ clouded. ● overcast sky. ● rain falling.
✱ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊼, thunderstorm.

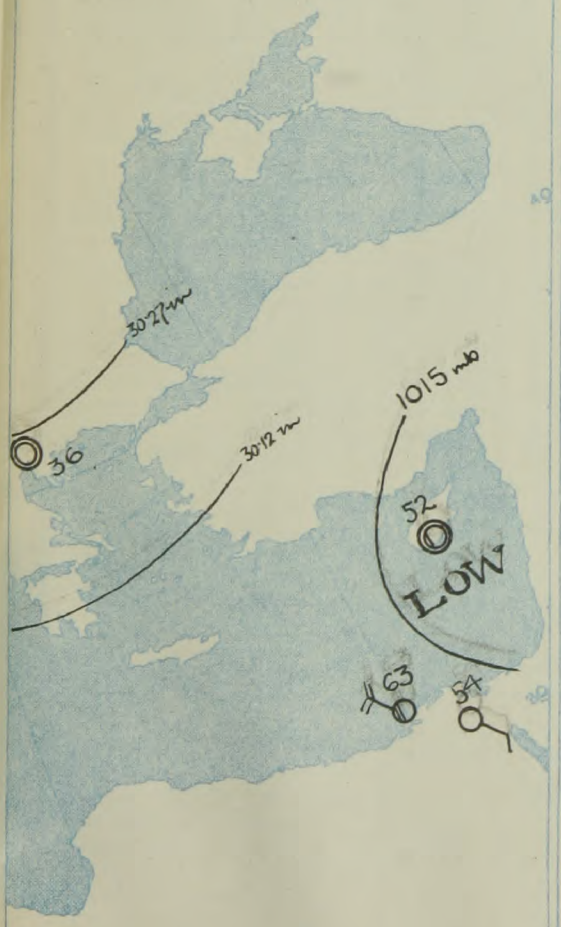
SEA DISTURBANCE.—Rough ∿∿. High ≈≈.

Scale 1 : 2,410,000
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

(9815 mb) LOW
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
29·38 in
29·53 in
29·68 in
29·83 in
29·97 in
30·12 in
Barometer rising
Barometer falling
LOW
HIGH
1025 mb
1020 mb
1015 mb
1010 mb
1030 mb
HIGH
LOW





The Present Situation

The high pressure system has been transferred eastward to the Netherlands and beyond, apparently extending to South-eastern Europe. In its rear a shallow depression with the barometer at about 1012 mb. has appeared over Ireland and Scotland. Pressure continues high (1030 mb) in the Azores region. A depression lies over Southern Spain, and a deep one near Spitzbergen. The winds consequently vary greatly in direction, and in most regions they are of little force, Holyhead reporting a strong squally S. wind. On our extreme west and north coasts a moderate N. breeze has set in. Fog covers south-east England and the Flanders region, the atmosphere being misty in many other localities. Rain is falling along a belt extending from the south-west of Ireland to the north-east of Scotland. Temperature is very low over inland and south-eastern England and across to the Continent.

The General Outlook

The conditions now existing are of an indefinite type which will probably result in considerable changes of weather within the coming 24 hours fog lifting, rain spreading eastward followed by a temporary improvement later.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 354. THURSDAY 20TH DEC.

	STATIONS.	EVENING OF 19TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 20TH: Barometer. Millibars at M.S.L.	Barometer. Change ± in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 20TH: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 20th
			°F.					±	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1013·9	35	NW	2	S	1016·0	0	37	-4	N	2	N	C	2	3	41	32	bc	bc	bc sp m	*
	Deerness (Orkney)	1015·6	35	SW	2	bc	1015·6	*	36	-1	N	3	-	c	3	4	38	33	r.o p s	p s.c.bc	c	0·1
	Stornoway ...	1015·4	37	W	4	0	1016·0	+3	35	-1	N	4	-	bc	3	1	39	33	c.o p	0	o g bc p	0·0
	Castlebay (Barra Isd.)	1015·7	42	SW	3	0	1014·6	0	38	-3	N	4	-	c	3	6	43	37	c.s p.o	o.r.o	od.o.c	0·7
	Glasgow ...	1018·7	40	-	0	o m	1012·3	-3	35	-5	NE	1	-	o m r	*	20	41	34	od p.o.c	c.o m d p	o m.o r	0·1
	Eskdalemuir ...	1020·2	36	SW	1	o f	1012·4	-2	41	-2	SSW	5	-	o m r	*	10	42	36	o d m.o	o.o f	o f.o m r	0·0
	Malin Head ...																					
	Blacksod Point																					*
	Valencia (Cahirciveen)	1021·8	47	S	3	c	1014·5	+1	40		N	4	-	o r	0	7	49	39	o.bc o d	o d.c	c.o.o r	0·4
	Roche's Point	1023·3	45	WSW	1	c	1013·4	*	46		SW	4	-	r	5	1	47	36	o.c.o m	o.c.o m	o d.c.r	*
	Birr Castle ...	1020·3	46	S	1	o	1013·1	*	36		NW	1	-	r	*	5	47	35	o	e.o	o r.s	0·0
	Donaghadee ...	1020·0	41	SW	2	c g m	1011·1	-3	43	+2	SSW	3	-	o m r	2	3	45	40			o f.r.o g	*
	Liverpool (Bidston)	1022·7	40	S	1	b	1016·2	-2	35	0	SE	2	E	o	2	-	43	34	c	o	bc.o	0·7
	Holyhead ...	1021·2	46	SW	5	c m g	1015·2	-3	43	-1	S	6	-	c q	5	2	47	42	o e m	o r.o.c	o.c e m	0·0
	Pembroke (St. Ann's)	1019·6	43	NNW	2	c	1017·2	-4	45	+10	S	3	S	bc	2	-	45	36	c	c.o	c.b.bc	0·3
	Hartland Quay	1025·1	35	ESE	3	b	1017·8	-4	41	+11	SE	3	-	b	2	-	42	29	bc	bc	bc	*
	Scilly (St. Mary's)	1023·3	39	E	1	c	1018·6	-2	43	+6	-	0	-	b	3	-	45	36	b.bc	bc.c	bc.b	5·0
	Falmouth ...	1024·8	34	NNE	1	b c y z	1018·6	-3	36	+9	NNE	1	-	b	*	-	40	27	b.b y	b y.c.b z	bc x.b x	4·3
	Jersey (St. Aubin)	1023·0	38	ENE	3	b	1018·7	*	34	-2	E	1	-	b m	1	-	39	33	o.c.d c	c.b	b w x m	0·0
	Portland Bill ...	1024·8	35	ENE	3	b	1019·1	-2	40	+6	ENE	3	-	b	3	-	40	34	bc.b	bc.b	b m	*
	Dungeness ...	1024·5	32	NNE	2	b	1020·2	-1	22	-14	N	1	-	b	2	-	38	20	bc.b	b	b	*
	Dover	*	*	*	*	*													*	*		
	Wick	1015·8	35	SW	2	o m g	1015·0	0	36	+1	WNW	2	-	o m p	2	1	37	34	bc m	bc o m g	o m g p	*
	Nairn	1016·3	36	W	1	o g	1014·5	*	34	0	-	0	-	o d g	1	5	37	33	bc	bc x c	o u p g	3·3
	Aberdeen ...	1017·7	37	WSW	3	o g	1014·0	-1	35	-1	WNW	1	-	r	2	5	38	35	b g	b g.c.o	o r	0·0
	Leith	1018·5	41	SW	1	r	1011·8	0	37	-5	NE	1	-	r	2	14	43	36	d.o m a c	c.o m.o d	r	*
	Tynemouth ...	1020·6	41	S	2	o f	1013·0	-2	40	0	W	3	-	o m	3	-	43	33	o m	o m	o m	*
	Spurn Head ...	1023·8	34	SW	2	c m	1018·6	-2	32	0	SW	2	-	b m x	3	-	35	29	c	c m	o f.b m x	2·1
	Yarmouth (Gorleston)	1025·0	30	WSW	2	b	1020·2	-1	30	+3	E	2	-	b	2	-	38	25	b m	b m x	b m x	5·5
	Clacton-on-Sea	1025·4	32	NNW	1	m	1021·1	-2	22	-6	W	1	-	f	0	-	36	20	bc x m	bc.b z m	b z m f	5·5
	Nottingham ...	1024·3	29	WSW	1	b	1019·3	*	24	+1	SW	1	SW	f b	*	-	32	22	bc.c m	b m	b m	0·0
	Benson (Oxon.) ...	1026·2	17	-	0	b	1019·7	-3	24	+7	-	0	-	f x	*	-	24	15	b f	b m	bc f x	*
	Sth Farnborough	1026·2	22	-	0	b m x	1021·4	-2	19	+1	-	0	-	o f x	*	Trace	29	17	b m x	bc m x	bc.o f x	0·9
	Salisbury Plain	1025·8	27	E	1	b	1020·3	?	26	+6	ENE	1	-	m	*	-	33	13	b.bc	bc x b	b m x	*
	London (Kew Obsy.)	1025·6	24	-	0	f x	1021·0	-2	22	-2	-	0	-	f x	*	-	24	21	f x	f x	f x	
NORTHERN EUROPE.	Spitsbergen ...	980·8	9	E	8	bc	981·5	+1	5	0	N	7	*	b	*	*	9	3				
	Vardö	995·8	27	SW	8	b	993·5	0	21	-9	WNW	5	-	o	3	*	30	21				
	Bodö	999·0	32	SW	4	c	1006·3	+5	27	-9	WNW	4	-	c	2	*	34	27				
	Christiansund ...	1010·5	37	SW	5	o	1015·4	+1	30	-9	WNW	3	-	c	5	3	37	28				
	Skudesnaes ...	1016·0	39	W	2	c	1015·8	0	36	-7	N	2	-	o	2	3	41	36				
	Færder (X'iania Fjord)	1015·4	40	WSW	5	c	1016·4	0	39	-2	WSW	2	-	o	-	-	43	37				
	The Scaw (Skagen)	1018·8	36	SW	5	o	1018·3	0	36	0	SW	3	-	o	3	2	36	34				
	Blaavands Huk	1025·2	36	SW	3	c	1022·4	-2	39	+3	SW	2	-	o	*	-	41	34				
	Copenhagen ...	1027·2	30	SW	3	b	1024·0	-1	28	-2	SW	2	-	m	*	-	32	28				
	Bornholm ...	1027·8	30	WSW	4	b	1024·6	-1	28	-2	SSW	3	-	c		-	30	25				
FRANCE, &c.	The Helder ...	1025·9	25	SSE	2	b	1022·0	-1	18	-5	S	1	-	b	0	-	30	18				
	C. Gris Nez ...	1024·8	30	E	2	b c	1020·6	-2	27	0	S	1	*	b	0	-	32	25				
	La Hève	1025·1	27	ENE	3	m	1018·6	*	23		ENE	2	*	m	0	-	28	23				
	Brest (St. Mathieu)	1022·3	41	ENE	4	b	1018·3	-2	36	+6	E	2	*	b	2	1	41	32				
	Rochefort (Ile d'Aix)	1017·6	39	ENE	5	o	1016·3	-1	34	-1	E	5	*	c	*	-	39	34				
	Biarritz	1012·4	32	-	0	b	1010·8	-1	27	+5	S	2	*	bc	2	-	?	?				
	Paris	1024·2	23	NNE	2	b	1020·6	-3	27	+6	E	2		o	*	-	30	21				
	Belfort	1025·0	27	E	6	m	1022·2	*	25	+1	E	4	*	f	*	-	33	24				
	Lyons	1023·2	27	-	0	o	1021·6	*	23		-	0	*		*	-	34	32				
	Nice	1020·3	52	E	4	o	1016·6	-3	50	+4	E	1	*	bc	5	-	54	39				
	Perpignan ...	1013·0	54	E	4	o	1010·4	-1	52	+15	SE	4	SE	o	*	53	54	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1017·5	45	NE	3	bc	1014·4	+1	52	+1	NNE	2	-	o	3	2	50	48				
	Madrid	1007·4	36	NNW	1	o	1026·4	+4	28		-	0	-	b	*	6	37	27				
	Lisbon	1012·6	43	NNW	3	b	1008·8	0	46	+7	NNE	4	-	o	5	1	46	41				
	Azores (Horta) ...	1031·2	*	SSE	4	o	1029·6	0	55	0	SSW	3	*	o	2	1	63	55				
	Madeira	1022·0	57	N	5	r	1024·6	0	54	-1	N	5	-	r	4	Trace	63	54				
	Gibraltar	1009·5	47	W	4	b	1009·5	*	45	-3	SW	6	*	bc	9	39	53	41				
	Malta	*	*	*	*	*	1016·0	-3	59	+2	SE	3	-	bc	2	Trace	63	57				
	Limassol	*	*	*	*	*	1014·6	+1	52	-5	-	0	-	b	4	Trace	64	48				
	Alexandria ...	1015·5	63	NW	2	o	1018·0		63	+9	NNW	4	NW	bc	3	2	64	52				
	Cairo (Helwan) ...	1015·2	57	-	0	o	1017·6	+3	54	+6	SE	1	-	b	*	-	61	52				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 20TH DEC. 9h. G.M.T.	Humidity. 15 h. 19TH	Humidity. 9 h. 20TH	Sunshine for 19TH	24 HOURS ENDED 9 h. 20TH: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	97	97	0·0	24	17	15	-	b f	b f	b f o f
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)				28	22	22	-	f	f	f
CAMDEN SQ. (British Rainfall) ...	-	-	0·0	32	24	22	-	m	m f	*
S. KENSINGTON (Museum Grounds)	*	94	0·0	28	24	*	-	f	f	f

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 19TH

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
20	·8	2·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20483 FRIDAY, 21st DECEMBER ... 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Rain fell heavily in the South of Scotland and in Ireland, 41 mm. at Valencia. Little sunshine was recorded in any district and there was much fog in the South East of the country. Temperatures were low except in the west with night minima down to 19° locally. At inland stations in the South-East day temperature remained below 32°.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 20th DECEMBER

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine for 20th Hr.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	2	1	40	33	or o	o|r	0·0
	Montrose	3	4	39	35	o	o	0·0
	St. Andrews							
Eng. N.E.	Harrogate	-	-	37	29	om	o.c. bc	0·0
	Skegness	-	-	36	25	bc	bc	2·9
England, E.	Felixstowe	-	0·2	32	19	b	b	0·0
	Southend-on-Sea	-	-	31	20	of	of	0·0
England, S.E.	Margate	-	-	36	25	of. c.	c.	0·0
	Hastings	-	-	35	29	bc	bc	2·1
	Eastbourne	-	-	36	23	bcm	bcmf	3·0
	Seaford	*	*					
	Worthing	-	-	34	22	b	b	2·3
	Littlehampton							
	Bournemouth	-	-	31	22	f	f	0·0
Scotld W.	Oban	4	Trace	41	35	or.	bc	1·2
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	36	33	c.o.c.o.	o.c.o	0·1
Midlands.	Malvern							
	Ross-on-Wye	-	-	35	20	bac.	bcm	0·0
Wales.	Rhyl	-	-	44	38	c	c o	0·0
	Colwyn Bay	-	-	44	40	c	bc	0·0
	Llandudno	*	*	46	39	c	c	0·0
	Aberystwyth	*	*	42	33	o.o.c.	c.o.o	0·2
England, S.W.	Weymouth	*	*	38	28	bf	b.bcm.	2·5
	Torquay	-	-	41	30	bcm	cm	1·0
	Paignton	*	*					
	Penzance	-	-	50	32	bc. c.	bc. o	3·3
	Newquay	-	-	?	29	b	b	4·0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 20th DECEMBER

	STATIONS.	Evening of 19th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 20th: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind. Direc.	Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1020·4	21	S	2	o									*	
	Hangö	1018·6	37	WSW	S	r									*	
	Yuriev															
	Petrograd	1024·6	21	SSW	3	o	1020·8	+2	25	+7	SSW	4	o	-	23	16
	Vijni Volotchok	1029·3	14	-	o	o										
	Gorki	1021·2	30	E	6	o		*							*	
	Moscow	1025·9	23	NW	1	o	1028·8	+1	19	+9	NNW	2	o	3	*	18
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1025·4	41	WNW	1	o	1023·9	*	36	o	WNW	1	b	-	46	36
	Turin	1025·1	36	-	o	o	1024·3	*	34		-	o	f	4	41	32
	Pesaro	1025·8	41	-	o	f	1023·1	*	41	+2	-	o	f	-	45	39
	Leghorn	1021·0	52	-	o	c	1018·5	*	46	-4	-	o	bc	Trace	55	45
	Rome	1022·2	46	-	o	b	1019·7	*	39	-4	-	o	bc	-	59	37
	Viesti	1023·9	46	WNW	1	b	1022·2	*	48	-2	W	1	b	-	55	45
	Brindisi	1022·3	52	SSW	3	bc	1022·5	*	52	+4	ESE	1	b	-	55	50
	Cagliari	1015·7	52	SE	4	b	1009·7	*	55	o	ESE	6	o	-	59	48
	Palermo	1021·1	50	NE	1	b	1016·6	*	59	+13	S	3	o	-	66	48
	Tripoli	1019·3	52	S	1	b	1016·1	*	52		SE	1	b	-	70	50
	Algiers	1008·4	50	W	2	o	1007·8	o	45	-9	WSW	5	o	-	55	45
Sweden.	Hernösand	1008·4	32	S	2	c	1015·4	*	12	-18	S	2	b	*	*	*
	Stockholm	1018·0	34	W	4	o	1018·7	*	34	+6	SSW	2	o	*	*	*
	Wisby	1024·2	32	SW	4	c	1022·6	*	32	+2	SW	6	o	*	*	*

Morning of 20th:

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	1021·0	18	+4	W	6	b
Reykjavik	1024·0	23	+5	E	3	o
Vestmanna	1025·2	28	+7	NW	2	S
Seydisfjord	1018·3	14	-4	N	4	S
Thorshavn	1017·4	24	-7	NW	3	o

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

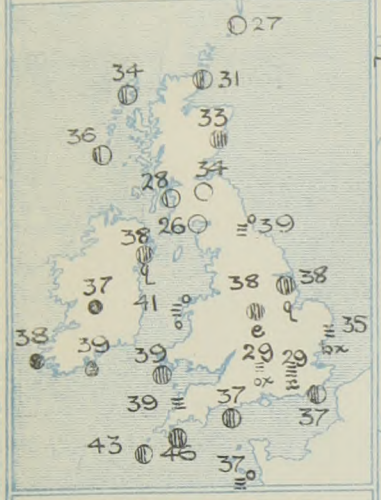
21st and 22nd 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·4	11·51	3·38
	8·5	11·52	3·39
Greenwich	8·5	11·58	3·51
	8·6	11·59	3·52
Wick	9·3	12·10	3·19
	9·4	12·11	3·18
Valencia	8·49	12·39	4·29
	8·50	12·40	4·30

Printed at the Meteorological Office, South Kensington, London, S.W. 7.
By Wyman & Sons Ltd., Fetter Lane, London, E.C. and Reading.

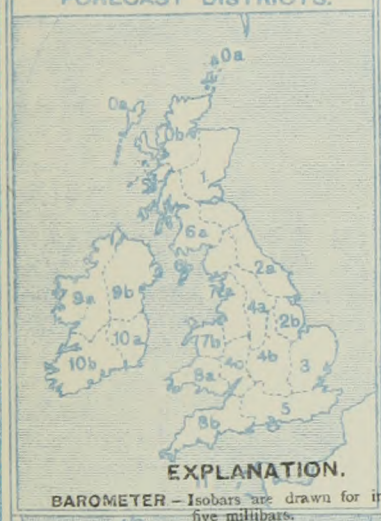
‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 21st DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

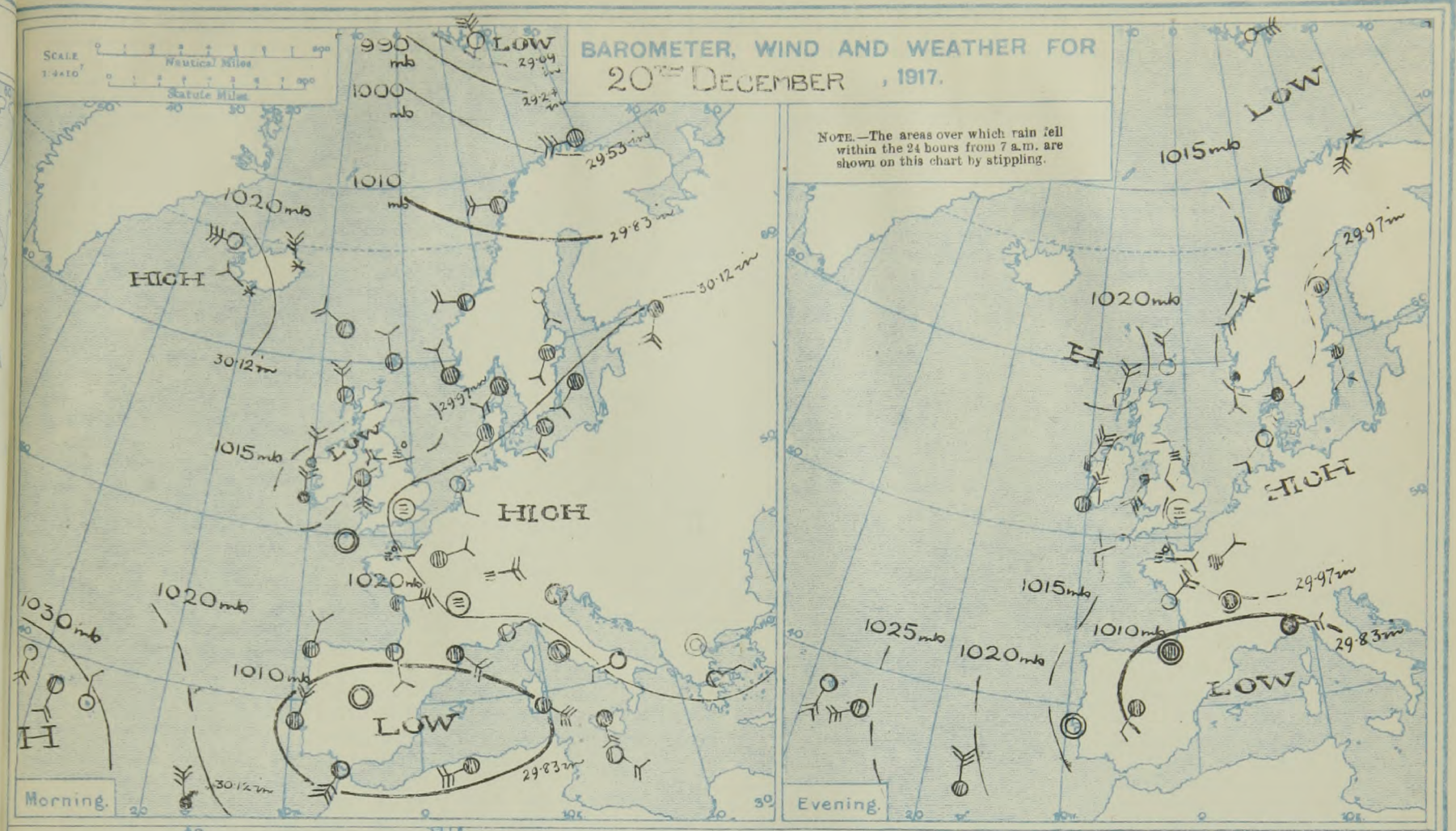
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◑ sky ½ clouded.
◍ sky ⅞ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
K, thunderstorm.

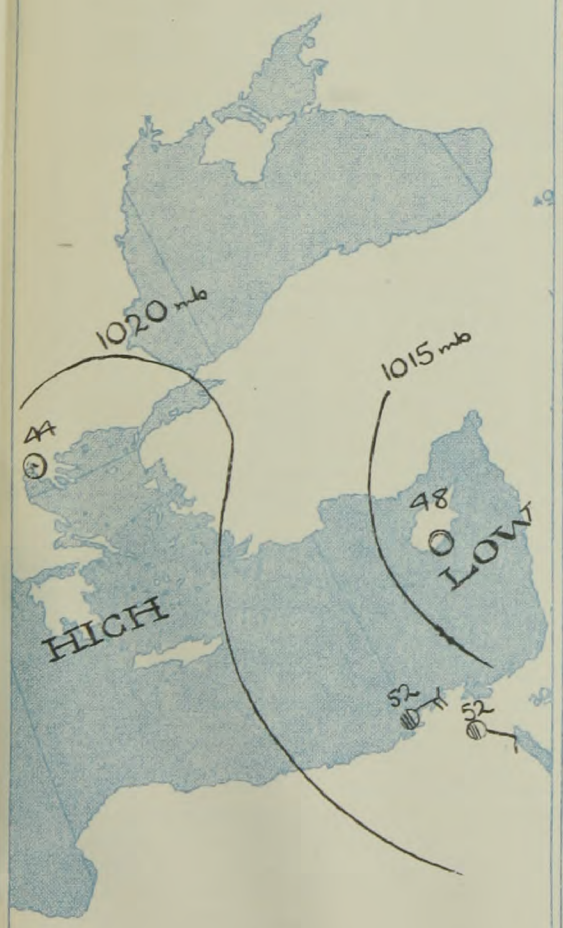
SEA DISTURBANCE.—Rough ~~ High ≈≈.

995mb
1000mb
1005mb
1010mb
1015mb
1020mb
1025mb
LOW
HIGH
Barometer rising generally
29·38in
29·53in
29·68in
29·83in
30·12in
30·27in
32°
40
42
43
50
54
57

SCALE 1 : 2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.





The Present Situation

An anticyclone lies off the West of Scotland and a depression over Southern Sweden. The shallow depression which lay over the British Isles yesterday has moved down to the Bay of Biscay region and there forms a secondary to another depression over the Eastern Mediterranean. In its passage it has caused heavy rain in the South-West of Ireland. The wind current over the North Sea is Northerly, but Easterly over England. The force is generally light or moderate but a strong wind is reported at Skudesnaes, in the Irish Sea and at Valencia. Weather is fair in Scotland and Southern Norway; over England there is a good deal of cloud with much mist and fog in the South-East and also in Holland and Flanders. Rain is still falling in the South of Ireland.

The General Outlook

The indications point to the Scottish anticyclone spreading South-Eastwards over this country and the North Sea.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 355.

FRIDAY, 21ST DEC.

	STATIONS.	EVENING OF 20th					MORNING OF 21st								24 HOURS ENDED 7 A.M. 21st						Sunshine for 20th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1019·3	31	N	3	b	1022·3	+1	27	-10	N	2	-	bc	2	1	37	26	bc.c	bcsp	bc.osp	*
	Deerness (Orkney)						1024·0	*	31	-5	N	3	-	b	2	-	38	31			o.ch.cb	2·1
	Stornoway ...	1023·8	34	NNE	4	b	1025·8	0	34	-1	NNE	1	-	bc	1	1	37	31	bc.cp	eb	b.bc.ps.	2·2
	Castlebay (Barra Isd.)	1022·8	38	NNE	5	bc	1025·0	0	36	-2	NE	1	-	bc	2	1	39	36	cb.c.op	op.bc	bp.bc	0·3
	Glasgow ...	1017·4	36	NE	3	o rnd	1025·7	+5	28	-7	ENE	2	-	b	*	12	36	27	ors.os	orm.o.or	od.cbx	0·0
	Eskdalemuir ...	1012·9	39	SSW	4	or rn	1024·6	+3	26	-15	NNE	4	-	b	*	18	41	28	or m	or m	orm.bc	0·0
	Malin Head ...	1016·8	40	NNE	6	cq													cq p	cq		
	Blacksod Point	1017·0	40	NNE	6	c													cq p	cq p		*
	Valencia (Cahirciveen)	1016·3	41	NNE	4	o	1013·5	+2.	28	-2	NE	6	-	or	-	44	44	36	o p.c.	cp. o	op q or	2·1
	Roche's Point	1014·0	39	N	3	r	1012·5	*	39	-7	E	4	-	r	3	19	46	36	ors.r.	r or.	r	*
	Birr Castle ...	1014·6	39	NNW	1	r	1017·3	*	37	+1	N	4	-	r	*	8	39	33	os.or	or.o	od	0·0
	Donaghadee ...	1012·5	41	NNE	5	o g m q	1022·4	+4	38	-5	ENE	5	-	o q	5	10	43	37	o m r g	o g m p	o q r o m	*
	Liverpool (Bidston)	1014·3	33	E	3	bc	1019·5	+2	39	+4	ENE	4	-	o	3	-	40	32		cm	o	0·0
	Holyhead ...	1012·3	43	SSW	5	od.w.	1017·7	+2	41	+2	E	7	-	o	5	3	45	39	o m g	or d m	or.c.o m.	0·0
	Pembroke (St. Ann's)	1013·0	46	S	3	c	1014·7	+3	39	-6	E	4	-	o	3	-	47	39	c	c	c.o p d e	0·6
	Hartland Quay	1014·0	40	ESE	3	o	1014·4	+1	39	-2	E	3	-	f	2	-	47	38	b.bc.c	c.o.c	o q f r	*
	Scilly (St. Mary's)	1013·5	45	WSW	1	c	1012·7	+1	43	0	WNW	1	-	c	-	3	49	?	b. bc.c	c	c.or.c	1·4
	Falmouth ...	1013·5	44	SSE	1	o f	1012·5	+1	46	+10	SE	3	-	o	*	-	50	33	b. bc	c.o.c f	o.c.o	3·7
	Jersey (St. Aubin)						1013·5	*	37	+3	E	1	-	cm	1	-	41	33			cm	2·4
	Portland Bill ...	1014·7	43	E	3	c m	1013·7	+1	37	-3	ENE	4	-	c	4	-	44	37	bc.c	c m	bc.c	*
	Dungeness ...	1017·7	30	N	1	b	1015·5	+1	37	+15	NE	4	-	c	3	-	37	19	bc f	bc x	bc f x.c	*
	Dover	*	*	*	*	*																
	Wick	1020·7	34	N	5	b c m q	1024·2	+3	34	-2	N	3	-	bc	3	0·4	41	27	o m.c p q	cb.c m q	b c m	*
	Nairn	1017·5	38	N	3	b c q	1025·6	*	32	-2	-	0	-	q q	1	-	38	28	bc	c q	bc.x c	0·0
	Aberdeen ...	1019·3	37	N	4	b	1024·2	+1	33	-2	WNW	3	-	bc	2	4	38	31	or	o.cb	b c r s p	0·0
	Leith	1017·5	39	NE	4	r	1024·7	+1	34	-3	E	1	-	b	2	17	39	33	r	r	r q o.b	*
	Tynemouth ...	1014·8	38	SW	1	f	1022·3	+4	39	-1	NNE	4	NE	bc m	4	4	40	33	o m	f r	o q r	*
	Spurn Head ...	1016·1	34	S	2	c m	1020·6	+1	38	+6	ENE	5	-	o q	5	-	38	32	o m	o m	bc m.o	0·5
	Yarmouth (Gorleston)	1016·8	30	-	0	f	1016·9	+2	35	+5	NNE	2	-	b f x	2	-	40	24	b m	bc f	b f x	5·2
	Clacton-on-Sea	1017·3	31	•	0	f	1017·7	+2	30	+8	NW	1	N	f	-	-	32	21	o f	o bc f	bc o f.	0·0
	Nottingham ...	1016·3	30	SW	2	f	1019·9	*	38	+14	NE	3	-	o e	*	-	38	22	bc m	bc m	o m f	1·5
	Benson (Oxon.) ...	1016·5	27	-	0	bc	1017·4	+2	29	+3	N	3	-	o f x	*	-	29	23	b f x	b m	o f x	*
	Sth Farnborough	1017·4	28	E	2	o f x	1017·7	+2	28	+9	E	2	-	o m x	*	-	29	19	o f x	o f x	o f.o m x	0·0
	Salisbury Plain	1016·3	29	SSE	3	c	1017·2	+3	30	+4	ESE	3	-	o	*	-	31	26	o f	c b f	cb.o m	*
	London (Kew Obsy.)	1017·3	29	-	0	f x	1018·2	+3	29	+7	NNE	1	-	o f x	*	-	30	28	f x	f x	f x.o f x	0·0
NORTHERN EUROPE.	Spitsbergen ...	985·9	3	ENE	5	b	993·9	+3	-2	-7	E	3	*	m	*	*	5	-4				
	Vardö	998·0	23	SW	6	s	991·4	+2	21	0	SSW	3	-	b	3	*	27	25				
	Bodö	1010·4	21	WNW	2	o	1013·4	+3	23	+4	N	2	-	b	2	-	27	23				
	Christiansund ...	1015·5	30	-	0	c	1015·9	+3	28	-2	NE	4		c	4	12	30	27				
	Skudesnaes ..	1012·7	34	-	0	c	1014·6	+4	32	-4	NNW	6	-	c	5	-	37	34				
	Færder (Tjømø Fjord)	971·2	34	NNE	2	r	1009·2	+2	28	-11	NNW	5	-	o	3	-	39	28				
	The Scaw (Skagen)	1014·8	37	S	4	r	1008·4	+1	36	0	NW	4	-	bc	4	3	37	32				
	Blaavands Huk	1017·5	37	SSW	2	b	1015·0	+1	39	0	NW	3	-	o	*	-	41	36				
	Copenhagen ...	1020·2	?	SW	1	m	1013·1	-2	27	-1	SW	3	-	f	*	-	30	27				
	Bornholm ...	1021·0	27	S	1	m	1013·4	-3	28	0	WSW	4	SW	bc	1	-	28	25				
FRANCE, &c.	The Helder ...	1017·8	23	S	1	m	1017·2	+1	23	+5	S	1	-	f	-	-	28	18				
	C. Gris Nez ...	1016·6	34	-	0	m	1015·6	0	27	0	ENE	2	*	m	1	-	36	21				
	La Hève	1014·0	23	SE	3	m	1013·5	*	21	-2	SSE	2	*	m	1	-	25	21				
	Brest (St. Mathieu)	1014·6	43	NNE	1	c	1013·0	-1	43	+7	E	2	*	o	1	1	45	34				
	Rochefort (Ile d'Aix)	1012·4	37	ENE	4	b	1010·8	0	28	-6	NE	4	*	bc	*	-	48	28				
	Biarritz	1009·6	43	-	0	o	1008·2	0	45	+8	SW	3	*	c	2	-	45	41				
	Paris	1014·6	28	NE	1	o	1014·8	+1	25	-2	NNE	2	-	o	*	-	30	25				
	Belfort	1018·4	25	E	5	f	1014·0	*	41	+26	E	6	*	f	*	-	26	22				
	Lyons	1015·8	23	-	0	o	1013·2	*	23	0	-	0	*	o	*	-	27	20				
	Nice	1008·4	54	E	5	bc	1007·0	+1	46	-4	-	0	*	o	7	Trace	55	45				
	Perpignan ..	1007·6	50	E	3	r	1008·0	+3	46	-6	N	1	E	r	*	18	57	45				
	Sanguinaire ...	1007·5	54	SE	4	r	1005·1	*	45		E	3	*	o	4	6	59	37				
SOUTHERN STATIONS.	Corunna	1015·2	52	NE	3	o	1025·2	+1	50	-9	-	0	-	e	2	2	54	46				
	Madrid	1009·9	30	SW	1	o	1013·0	+4	27	-1	NE	1	NE	b	*	-	34	28				
	Lisbon	1012·8	50	-	0	b	1011·9	0	50	+4	S	2	-	bc	5	-	54	48				
	Azores (Horta) ...	1027·8	*	-	0	b	1026·6	0	57	+2	NE	5	*	o	5	7	61	53				
	Madeira	1022·7	55	N	5	c	1020·4	+1	54	0	SSW	3	-	bc	3	-	63	54				
	Gibraltar	1009·1	42	N	5	b	1012·2	*	45		NW	6	*	b	3	44	49	40				
	Malta	*	*	*	*	*	1012·6	+1	54	-5	W	1	-	b	1	-	64	52				
	Limassol	*	*	*	*	*	1014·8	+1	48	-4	-	0	-	b	-	-	68	43				
	Alexandria ...	1018·0	63	NW	4	c	1018·4	+1	63	0	NW	3	NW	c	2	-	70	52				
	Cairo (Helwan) ...	1018·0	59	-	0	bc	1019·2	+2	52	-2	SE	1	-	c	*	-	66	48				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON — 21st Dec. 9h. G.M.T.

	Humidity. 15 h. 20th	Humidity. 9 h. 21st	Sunshine for 20th	24 Hours ended 9 h. 21st Dec. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	?	?	0·0	30	24	27	-	o f	o f	o
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	99	98	0·0	31	28	28	-	f	f	f
CAMDEN SQ. (British Rainfall) ..	-	-	0·0	31	27	26	-	f	f	*
S. KENSINGTON (Museum Grounds)	*	86	0·0	32	25	-	-	f	f	f

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 20th.....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
15	0·5	1

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20484 SATURDAY, 22ND DECEMBER ... 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Continuous rain fell at Roches Point (29 mm.) and showers at Scilly (11 mm.) but elsewhere precipitation was light. Sunshine measurements were very variable, nil at many stations but 5 hours or over at the widely separated stations, Castlebay, Nairn, Eskdalemuir and Jersey. Temperature remained low over the whole country. Eskdalemuir reported a minimum of 14°.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 21ST DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 21st
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	37	30	cb.c.	b.cb	1.1
	Montrose							
	St. Andrews	*	*	34	25	bx	bx	5.4
Eng. N.E.	Harrogate	0.3	-	37	27	o.c.	bc.c.o	1.2
	Skegness	-	-	40	37	bc	bc	0.7
England, E.	Felixstowe	-	0.2	41	23	f.bc.	bc p.	1.1
	Southend-on-Sea	-	-	39	27	of	of.c.	2.0
England, S.E.	Margate	0.2	-	44	30	b.bc.	bc.od.	1.0
	Hastings	-	-	38	27	bf	bc	0.9
	Eastbourne	-	-	38	28	om	bc.of.	0.5
	Seaford	*	*	37	25	o	b	?
	Worthing	-	-	36	26	bc	o	0.7
	Littlehampton							
	Bournemouth	-	-	37	30	c.	.o	2.0
Sc'tld W.	Oban	-	-	38	26	x	x	4.6
Eng. N.W.	Morecambe	-	0.6	39	36	*	*	0.5
	Southport	-	-	38	32	bc.c.	c.o.c.bc.b.	0.0
Midlands.	Malvern							
	Ross-on-Wye	-	-	38	28	xmc.	mc.	0.0
Wales.	Rhyl	-	-	40	34	c.o.	o	0.0
	Colwyn Bay							
	Llandudno	*	*	45	36	c	c	0.3
	Aberystwyth	*	*	40	37	o.o.c.	c.o.o.	0.0
England, S.W.	Weymouth	*	*	37	33	3.	c	0.1
	Torquay	2.2	-	41	36	o	o	0.0
	Paignton	*	*					
	Penzance							
	Newquay	-	1.6	43	37	ot	ot.o.	0.0
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 21ST DECEMBER.....

	STATIONS.	Evening of 20th: Barom. Millibars at M.S.L.	Temp. °F.	Wind Direc.	Wind Force 0-12.	Weather.	Morning of 21st: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F	Wind Direc.	Wind Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max. °F	Temp. Min. °F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1012.6	21	S	3	o									*	
	Hangö	1018.7	36	-	o	T									*	
	Yuriev															
	Petrograd	1021.1	28	SW	3	S	1020.8	+1	27	+2	SSW	4	8	4	28	23
	Vijni Volotchok	1029.7	9	S	2	o	1029.0	o	18		S	1	o	-	-	9
	Gorki	1031.5	19	-	o	o		*							*	
	Moscow	1031.7	19	NW	3	o									*	
	Kiev	1028.3	21	NNE	3	o									*	
	Kharkov	1024.0	23	ENE	3	o									*	
	Kishinev														*	
	Elisabetgrad	1022.6	23	NW	4	s									*	
	Nicolaiev														*	
	Odessa	1026.1	27	N	4	o		*							*	
	Tarkhankout														*	
	Soukhoum							*							*	
Mediterranean.	Venice	1018.9	37	ENE	1	b	1011.7	*	36	o	NNE	1	o	Trace	45	34
	Turin	1021.1	36	-	o	f	1014.1	*	36	+2	-	o	f	-	37	33
	Pesaro	1017.3	43	-	o	f	1008.3	*	45	+4	SSW	2	r	13	45	41
	Leghorn	1011.9	46	NE	3	c	1007.3	*	45	-1	E	1	o	9	52	43
	Rome	1011.3	52	E	3	o	1008.5	*	48	+9	SE	1	o	15	55	48
	Viesti	1017.0	50	SE	2	c	1010.2	*	52	+4	W	1	r	7	55	45
	Brindisi	1013.7	54	WNW	5	bc	1012.5	*	54	+2	W	4	r	10	57	52
	Cagliari						1007.3	*	48	-7	NNW	5	r	3.8	54	35
	Palermo	1009.8	57	SE	4	b	1010.0	*	48	-11	-	o	o	4	63	41
	Tripoli						1017.3	*	45	-7	SW	1	b	-	66	43
	Algiers	1006.7	46	WSW	4	bc	1004.4	+1	45	o	WSW	3	bc	-	52	41
Sweden.	Hernösand	1016.4	18	-	o	c	1009.8	*	21	+9	NW	4	3	*	*	*
	Stockholm	1018.2	32	S	2	o	1005.9	*	30	-4	S	4	o	*	*	*
	Wisby	1024.4	32	SW	2	b	1007.4	*	32	o	SE	4	o	*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb. °F	Temp. Change in 24 hours. °F	Wind Direc.	Wind Force 0-12.	Weather.
Isafjord	1013.4	30	+12	N	2	S
Reykjavik	1016.8	34	+11	S	2	r
Vestmanna	1018.6	36	+8	W	3	o
Seydisfjord	1015.9	30	+16	W	4	c
Thorshavn	1018.7	20	-4	NNW	2	bc

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

22ND AND 23RD DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.5	11.52	3.39
	8.5	11.52	3.39
Greenwich	8.6	11.59	3.52
	8.6	11.59	3.52
Wick	9.4	12.11	3.18
	9.4	12.11	3.18
Valencia	8.50	12.40	4.30
	8.50	12.40	4.30

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 22ND DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ½ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊤≋, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈.

LOW

1010 mb

29·83 in

29·97 in

1015 mb

30·12 in

1025 mb

Barometer steady

HIGH

30·34 in

30·27 in

Barometer 32

Barometer rising

1020 mb

1005 mb

29·68 in

Scale 1 : 2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 600

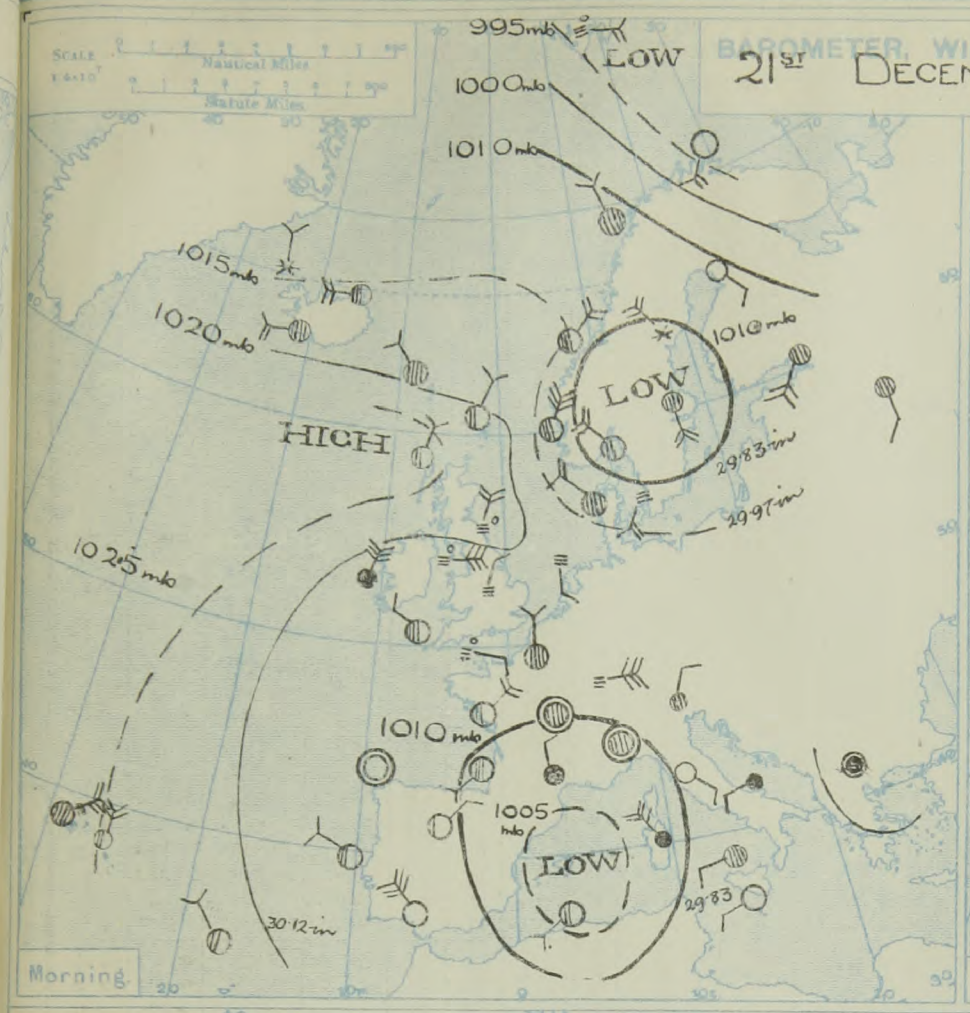
Normal Temperature of the Sea.

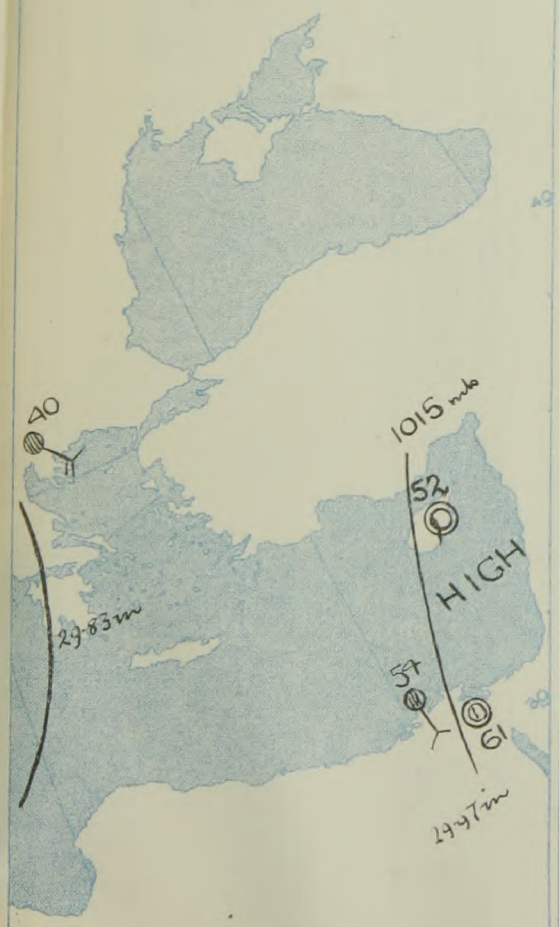
Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 21st DECEMBER, 1917.

NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

The anticyclone which was indicated to the Westward of Scotland yesterday now lies over the north of England and Ireland. A depression is shown between the Northern Norwegian coast and Spitzbergen and another in the Western Mediterranean. A moderate Westerly breeze is blowing over the North of Scotland while over England and Ireland winds are very light and variable. In the English Channel and over France fresh or strong E. winds prevail. Little precipitation is reported in general, but snow is falling at Skudesnaes and Perpignan. From Scotland fairly clear skies are reported but over the greater part of England there is much cloud with mist at some stations. The fog which has been prevalent for the past few days has cleared.

The General Outlook

The indications point to a spell of anticyclonic weather over England. The north of the British Isles is likely to be affected by depressions passing eastward from the Atlantic.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 356.

SATURDAY, 22ND DECEMBER.

	STATIONS.	EVENING OF 21ST..... Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF...22ND..... Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M...22ND. Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 21ST Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1022.1	35	W	3	om	1017.9	0	40	+13	WNW	3	-	om	3	2	40	26	bc	bc.om.	omlcp	*
	Deerness (Orkney)	1024.0	34	SW	3	o	1021.7	*	38	+7	W	3	-	c	2	3	40	31	c	cbc.c.o	o.c.bc.b	2.7
	Stornoway ...	1025.8	46	WSW	3	bc	1025.5	0	36	+2	NW	2	-	bc	2	4	38	32	bc	bc	c.lcp	2.3
	Castlebay (Barra Isd.)	1027.0	36	-	0	c	1027.5	0	41	+5	W	3	-	bc	2	1	43	34	bc.b.	bc	clp.bc	5.0
	Glasgow ...	1028.7	28	NE	1	b3	1029.8	0	25	+3	W	4	-	b3	*	-	33	22	b	b3	b3f.bc	3.7
	Eskdalemuir ...	1026.9	29	ENE	1	o	1030.8	0	15	-11	-	0	-	bx	*	-	31	14	bx.b.	b.bc.c	o.c.bx	5.6
	Malin Head ...	1027.8	36	E	1	bcu													bc.u.	bcu.		
	Blacksod Point	1026.7	34	NE	4	bc													bc	bc		*
	Valencia (Cahirciveen)	1021.1	41	NE	5	o	1027.1	+3	40	+2	NE	3	-	o	-	3	42	36	ogjp.	ogjp.	o.o.c.	0.0
	Roche's Point	1017.8	40	NE	4	r	1027.3	*	40	+1	N	2	-	o	2	29	41	36	r	r	ro.	*
	Birr Castle ...	1024.3	37	ENE	1	o	1030.1	*	29	-8	N	1	-	c	*	1	39	28	od.o.	o	o.cx	0.0
	Donaghadee ...	1026.5	36	E	4	b3	1029.7	+2	31	-7	-	o	-	b3	-	Trace	38	31	bcq	bq		*
	Liverpool (Bidston)	1025.6	36	ENE	2	m	1029.1	0	33	-6	-	o	-	f	-	-	39	31		crm	bm	0.0
	Holyhead ...	1024.2	38	E	6	bm	1029.1	+2	36	-5	E	4	-	bm	3	-	41	34	om.cm	cb.cbm	bm	0.0
	Pembroke (St. Ann's)	1024.7	40	E	4	o	1028.3	+3	35	-4	E	3	-	c	2	-	42	34	om.	o.	o.cbc.b.	0.0
	Hartland Quay	1020.0	40	E	3	m													fr.rsm	omqq		*
	Scilly (St. Mary's)	1016.6	45	ESE	5	omr	1023.0	+3	46	+3	ESE	5	-	cq	6	11	46	41	clp.	clp.or.	or.c.cq	0.0
	Falmouth ...	1018.2	44	ENE	5	oq3	1025.0	+4	40	-6	ENE	5	-	o	*	2	47	40	oqer	or.qc3.	oq.o	0.0
	Jersey (St. Aubin)	1014.6	41	ENE	5	bc	1023.6	*	38	+1	ENE	5	-	b	3	-	43	37	cm.b.	b.be	bc.b.	6.0
	Portland Bill ...	1019.0	37	ENE	6	bm	1024.6	+3	38	+1	ENE	6	-	c	5	-	42	36	bcm	bcm.	cb.c	*
	Dungeness ...	1019.9	41	NE	3	o	1024.9	+2	37	0	NE	3	NE	c	3	0.3	42	30	cfj	bc.cm.	c.olp.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1025.0	32	SW	2	oq	1023.4	0	36	+2	W	3	-	bc	3	3	36	28	bm	bmqq.	omlp.bc	*
	Nairn	1025.9	32	-	0	bx	1026.0	*	36	+4	W	2	-	oq	2	-	36	26	cb.c.	bc	b.bc.lc.	5.3
	Aberdeen ...	1027.3	29	W	1	b	1025.8	-1	35	+2	WNW	1	-	b	2	-	35	27	bc.	bc.b.	b.bc.b	1.8
	Leith	1028.0	29	SW	1	b	1028.0	0	25	-9	SW	1	-	b	1	-	34	23	bm.bc.b.	bq.bm.b.	bqxq.b	*
	Tynemouth ...	1026.7	35	NW	2	om	1028.2	+1	30	+9	NW	2	-	b	3	-	41	30	c	c	bm	*
	Spurn Head ...	1025.4	38	E	4	bc	1028.6	+1	38	0	NE	1	-	o	4	-	41	34	beq	bc.	o	1.7
	Yarmouth (Gorleston)	1022.9	38	ENE	5	bc	1026.3	+3	36	+1	ENE	3	-	o	4	-	41	33	bfx.o.	o.bc.	bc.o.c.	0.0
	Clacton-on-Sea	1022.8	38	N	4	o	1028.0	+2	35	-5	NW	2	-	o	2	0.3	40	30	o.c.f	of.ogp.	og.bc.o	0.8
	Nottingham ...	1025.5	35	NE	2	bc	1028.9	*	35	-3	ENE	2	NE	o	*	0.2	38	30	od.	o.c.	bcm	0.0
	Benson (Oxon.) ...	1022.7	35	NE	2	c	1027.5	+2	30	-1	NE	2	-	o	*	-	35	27	cf	c	o	*
	Sth Farnborough	1022.8	35	NE	3	om	1027.4	+2	33	+5	NNE	2	-	o	*	Trace	36	27	omx.fx	ofx.om	om	0.0
	Salisbury Plain														*							*
	London (Kew Obsy.)	1022.7	38	NE	3	om	1027.8	+2	31	+7	NE	2	-	om	*	0.1	39	29	ofx.omx	omx.om	om.omd.	0.0
NORTHERN EUROPE.	Spitsbergen ...	1003.8	-6	E	5	b	1010.2	+4	-11	-9	E	4	*	b	*	*	-8	-13				
	Vardö	1008.4	16	SW	5	b	1010.3	0	18	+3	W	2	-	b	3	*	21	16				
	Bodö	1016.8	18	N	4	c	1010.6	-2	23	0	E	2	-	o	2	-	27	16				
	Christiansund ...	1021.0	27	-	0	s	1014.6	-5	28	0	S	2	-	c	4	8	25	19				
	Skudesnaes ..	1023.1	25	-	0	b	1020.4	-4	32	0	SSE	4	-	s	3	-	30	25				
	Færder (X'lania Fjord)	1020.6	28	NNW	4	b	1023.2	0	25	-3	-	0	-	b	1	-	30	25				
	The Scaw (Skagen)	1017.6	32	NNE	5	b	1023.4	0	30	+6	-	0	-	c	-	-	37	27				
	Blaavands Huk	1021.1	30	NE	2	b	1026.0	+1	30	+9	SSW	1	-	b	*	-	43	21				
	Copenhagen ...	1016.8	32	NNW	2	b	1025.0	+3	23	-4	NNW	2	-	m	*	-	34	21				
	Bornholm ..	1013.6	32	NNW	6	bc	1022.8	+3	27	-1	NNE	4	-	b	1	-	34	25				
FRANCE, &c.	The Helder ...	1022.6	36	NNE	4	o	1026.3	+2	36	+13	NE	1	-	o	-	1	39	23				
	C. Gris Nez ...	1020.6	34	ENE	2	f	1025.6	+1	34	+7	E	1	*	o	1	-	36	27				
	La Hêve	1018.7	34	E	4	m	1022.7	*	32	+11	ENE	4	*	c	2	-	32	30				
	Brest (St. Mathieu)	1016.0	44	NE	2	m	1020.8	+1	39	-4	ESE	5	*	b	3	-	46	34				
	Rochefort (Ile d'Aix)	1013.2	30	ENE	5	o	1015.9	+1	27	-1	ENE	6	*	b	*	-	39	25				
	Biarritz	1011.1	48	WNW	2	b	1013.1	+1	37	-8	E	1	*	m	2	-	51	36				
	Paris	1017.5	23	NNE	3	b	1022.8	+2	28	+3	NE	4	-	o	*	-	28	18				
	Belfort	1017.0	21	E	6	f	1021.1	*	18	-5	E	6	*	m	*	-	14	16				
	Lyons	1014.8	25	NNE	1	o	1018.6	*	21	+2	E	1	*	o	*	-	25	21				
	Nice	1007.1	45	-	0	c	1003.5	+2	37		SE	1	*	b	4	Trace	54	37				
	Perpignan ..	1007.9	46	-	0	b	1012.7	+3	36	-10	-	0	-	s	*	2	52	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1012.3	52	NNE	1	c	1013.0	0	43	-7	S	3	SW	c	3	Trace	54	39				
	Madrid	1013.6	36	-	0	b	1017.2	0	32	+5	-	0	-	f	*	-	?	?				
	Lisbon	1011.4	55	ESE	2	o	1007.9	-1	48	+2	NE	2	-	o	6	6	57	48				
	Azores (Horta) ...	1028.4	*	NNE	4	bc	1027.4	-1	50	+7	NNE	3	*	b	1	-	59	50				
	Madeira	1016.4	59	N	3	c	1015.2	+1	52	+2	NW	5	-	r	4	5	59	52				
	Gibraltar	1015.6	54	W	4	b	1012.5	*	55	+10	E	4	*	o	3	-	56	43				
	Malta	*	*	*	*	*	1008.8	+2	48	-6	NNW	1	-	c	1	1	59	48				
	Limassol	*	*	*	*	*	1015.0	0	52	+4	-	0	-	b	2	-	66	45				
	Alexandria ...	1018.4	61	-	0	b	1014.6	0	54	-9	S	2	W	o	1	-	73	52				
	Cairo (Helwan) ...	1018.3	57	-	0	b	1015.0	+1	50	-2	SE	1	-	o	*	-	66	48				

GALES.
Duration and Extreme Force in British Isles.

LONDON 22ND DEC.....9h. G.M.T.	Humidity. 15 h. 21ST	Humidity. 9 h. 22ND	Sunshine for 21ST	24 Hours ended 9 h..22ND..... Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	95	67	0.0	37	29	31	0.0	o	o	o
CITY (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	0.0	40	30	30	0.0	m	m	m
CAMDEN SQ. (British Rainfall) ..	60	81	0.0	38	30	26	0.0	o	o	*
S. KENSINGTON (Museum Grounds)	*	70	0.0	39	30	-	0.0	om.o	o	o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 21ST.....

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
30	1.2	4

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,485. SUNDAY, 23RD DECEMBER .1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature rose to about 40° on various parts of the coast, but remained below that value generally, only touching 35° in some English localities and 33° at Birr Castle. At night hard frost occurred over a wide area. Slight showers fell in the most northern and north-western districts, and over the British Isles generally the day was very cloudy or overcast. At some south-western and western stations, however, and at Eskdalemuir the sunshine records were nigh for the time of year.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 22ND DECEMBER

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 22ND.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	49	29	bc.b	bc.b	0·0
	Montrose	-	-	34	28	b	bc	1·4
	St. Andrews							
Eng. N.E.	Harrogate	-	-	37	28	b	b	5·3
	Skegness							
England, E.	Felixstowe	-	-	39	33	cm.bc	bc	1·2
	Southend-on-Sea	-	-	37	32	o	o	0·0
England, S.E.	Margate	1	Trace	40	37	c	c.or	0·3
	Hastings	2	1	38	33	or.c	o	0·1
	Eastbourne	2	Trace	37	33	om	o.c	0·0
	Seaford	*	*					
	Worthing	-	-	37	34	o	o	0·1
	Littlehampton							
	Bournemouth	-	-	39	32	o	o	1·0
Scotland W.	Oban	-	-	41	25	c	c	0·0
Eng. N.W.	Morecambe			?	32	*b.bc	*o	1·0
	Southport	-	-					
Midlands.	Malvern	-	-	34	23	x.bf	xm b	0·0
	Ross-on-Wye							
Wales.	Rhyl							
	Colwyn Bay							
	Llandudno	*	*	37	29	o.c.b	c.o	4·5
	Aberystwyth	*	*					
England, S.W.	Weymouth	*	*					
	Torquay							
	Paignton	*	*					
	Penzance	3	-	43	36	bc	bc	3·8
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 22ND DECEMBER

	STATIONS.	Evening of 21ST. Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 22ND. Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö						10063	+4	28		SSW	4	0	2	*	27
	Yuriev															
	Petrograd						1012·7	-2	15	-12	SSE	5	0	-	25	12
	Vijni Volotchok															
	Gorki							*							*	
	Moscow						1030·0	-1	10		SE	2	0	-	*	?
	Kiev	1025·2	3	E	2	0									*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad	1024·2	23	?	2	0									*	
	Nicolaiev	1023·8	27	NE	2	0		*							*	
	Odessa	1025·2	25	ENE	3	0									*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1009·9	39	NE	1	0	1010·3	*	41	+5	-	0	0	-	41	36
	Turin	1011·5	38	-	0	r	1011·3	*	34	-2	-	0	+	10	37	33
	Pesaro	1011·7	41	NNW	1	0	1011·4	*	41	-4	-	0	b	-	46	37
	Leghorn	1008·7	45	-	0	bc	1008·3	*	43	-2	-	0	bc	1	52	41
	Rome	1009·3	46	SE	1	0	1008·5	*	39	-9	N	1	bc	2	54	37
	Viesti	1000·7	48	SE	1	c	1009·3	*	46	-6	WSW	1	b	-	55	46
	Brindisi	1010·2	55	SE	3	bc	1007·3	*	54	0	NE	1	0	5	57	50
	Cagliari	1005·8	50	SW	4	0	1003·4	*	48	0	NNW	4	r	8	57	43
	Palermo	1011·5	48	S	3	c	1008·6	*	43	-5	W	1	c	-	59	37
	Tripoli	1014·6	42	SSE	2	b	1015·5	*	36	-9	W	3	b	-	67	33
	Algiers	1010·8	46	W	5	c	1014·0	+1	48	+3	W	3	bc	-	54	45
Sweden.	Hernösand	1011·1	16	NW	4	c	1018·4	*	10	-11	-	0	b	*	*	*
	Stockholm	1008·0	27	NW	4	0	1019·9	*	14	-16	W	2	b	*	*	*
	Wisby	1009·5	30	SW	6	0	1020·6	*	27	-5	NW	4	b	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
	Morning of 22ND.	°F	°F			
Isafjord	1014·6	24	-8	-	0	c
Reykjavik	1017·4	36	+2	-	0	0
Vestmanna	1020·2	36	0	W	1	0
Seydisfjord	1018·6	25	-5	-	0	c
Thorshavn	1015·6	31	+11	NW	2	b

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

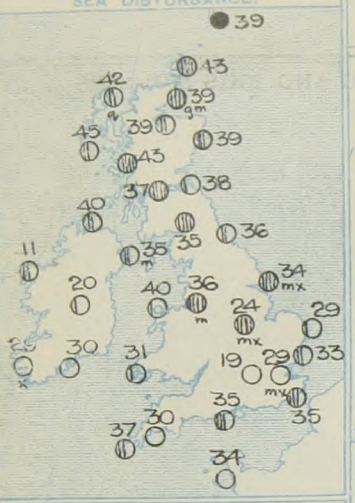
23RD AND 24TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·5	11·52	3·39
	8·6	11·53	3·40
Greenwich	8·6	11·59	3·52
	8·7	12·0	3·53
Wick	9·4	12·11	3·18
	9·5	12·12	3·19
Valencia	8·50	12·40	4·30
	8·51	12·41	4·31

Printed at the Meteorological Office, South Kensington, London. S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London. E.C., and Reading.

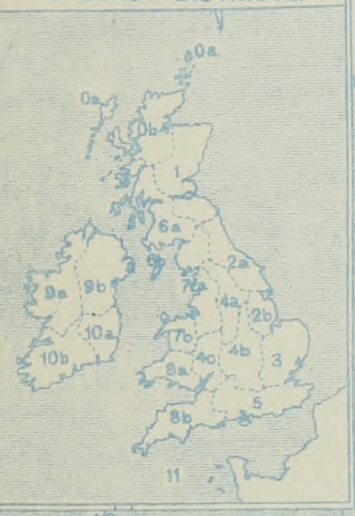
‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 23RD DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

Scale 1 : 2 x 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

LOW 1010 mb

Barometer falling.

1015 mb

1020 mb

1025 mb

1030 mb

HIGH

Barometer almost stationary

Barometer rising

LOW 1005 mb

HIGH

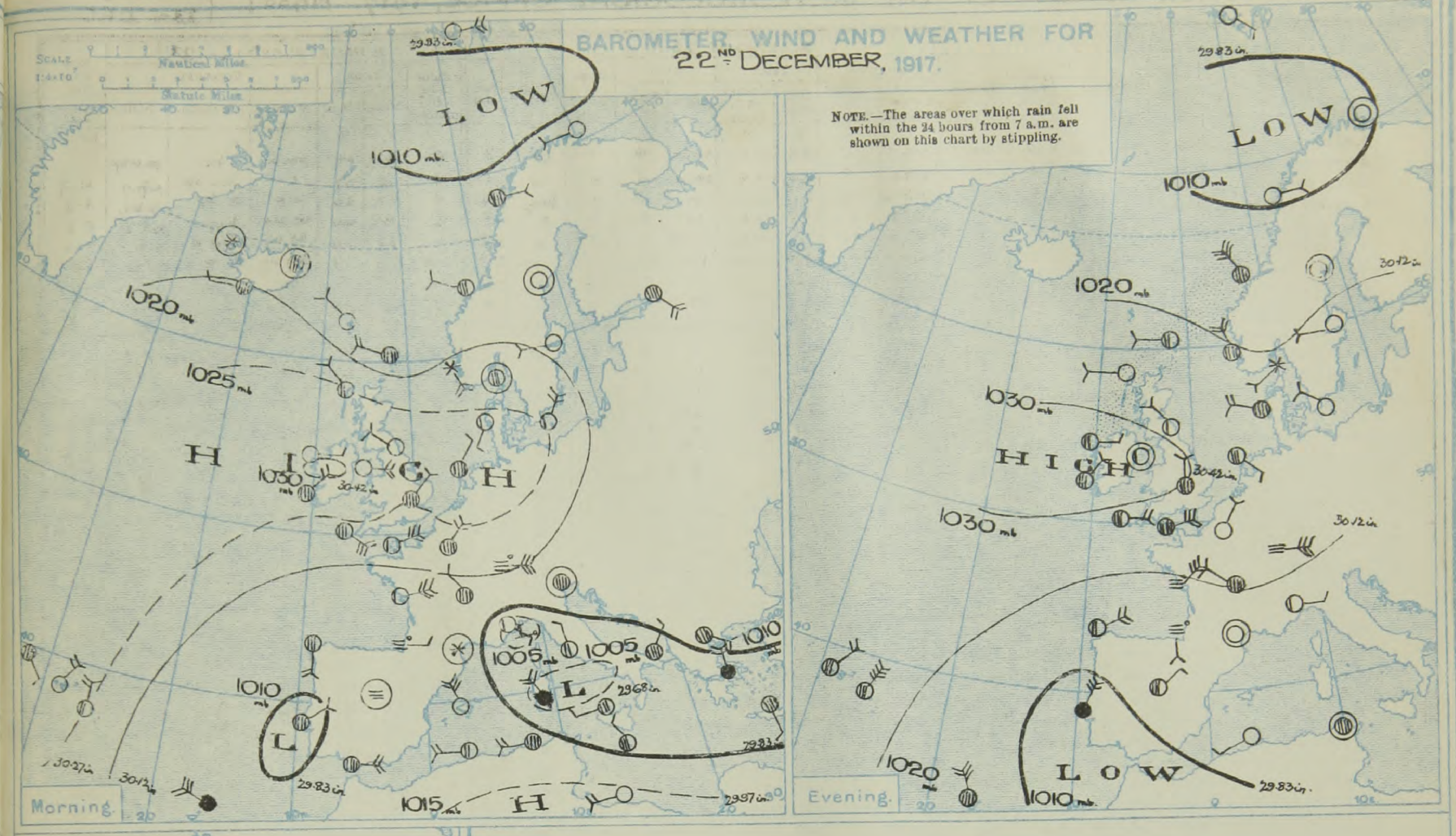
1010 mb

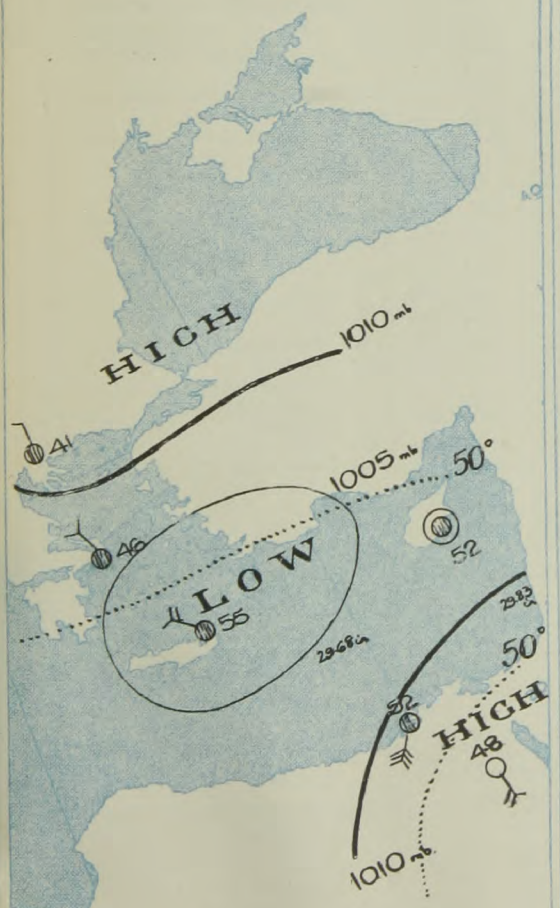
1015 mb

1020 mb

1025 mb

1030 mb





The Present Situation

An anticyclone still lies over England and Ireland. A depression is situated off the Northern Norwegian coast and other disturbances over the Western and Eastern Mediterranean. A moderate W. current prevails over Scotland with generally fair weather but rain in the extreme north at Lerwick. Over England and Ireland winds are very light but over France a fresh Easterly wind continues to blow with low temperatures. The sky is almost cloudless in Ireland and in parts of England but in the Midlands there is much cloud. Some low temperatures are recorded in the South East of England.

During the day the anticyclone underwent little change, the northern depression moved somewhat in an easterly direction, occasioning an increase of wind over Norway, Denmark, and the North Sea. The depression over the Western Mediterranean moved away or dispersed, while that over the Eastern Mediterranean apparently maintained its position.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 357.

Sunday, 23rd DEC.

	STATIONS.	Evening of 22nd: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 23rd: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 A.M. 23rd: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 22nd.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1021·5	36	W	2	bc	1014·1	-3	39	-1	WNW	4	-	or	3	6	41	34	om.bc	bc	bc.omp	*
	Deerness (Orkney)	1024·0	38	NW	3	cp	1018·0	*	43	-5	WSW	4	-	o	3	3	43	37	c	c.c.cp	cp.o	0·9
	Stornoway ...	1026·9	36	W	2	b	1023·5	-2	42	-6	W	4	-	bcq	4	5	42	35	bcp	bc.bp	bcpq	1·3
	Castlebay (Barra Isd.)	1028·8	43	W	3	c	1027·2	0	45	-4	W	4	-	c	3	2	45	40	bc.op.c.	cp.op.c	gol.bc	0·5
	Glasgow ...	1029·8	36	WSW	2	b	1028·4	-1	37	+12	WSW	2	-	o	*	1	37	23	bg.cg	cgdp.b.	b bc.cp	0·0
	Eskdalemuir ...	1031·0	29	SE	2	coc	1029·3	-1	35	+20	SW	3	-	o	*	0·4	35	14	bc.bg	bg.bc.c	bc.bc.c	5·9
	Malin Head ...	1030·1	38	SW	3	c	1028·6	-1	40		W	5	W	bc	4	0·4	41	31	bc	bc	bc	2·1
	Blacksod Point	1033·3	37	E	1	bc	1033·6	-1	41		WSW	2	-	bc	2	1	41	30	bc	bc	cg.bcp	*
	Valencia (Cahirciveen)	1032·0	36	NE	2	c	1034·9	+1	29	-11	NE	2	-	bc	-	-	43	27	oc.bc	b.bc	c.bbc	3·8
	Roche's Point	1031·5	35	ENE	2	b	1034·8	*	30	-10	N	2	-	b	1	0·1	41	30	o.c.	cb.	bc	*
	Birr Castle ...	1033·2	27	NNE	1	c	1034·5	*	20	-9	N	1	-	b	*	-	33	20	cxc	cfx	fxb	2·5
	Donaghadee ...	1030·6	32	W	2	bcf	1030·4	0	35	-4	WSW	2	-	bcm	2	-	38	29	bg.bgf	bg	bcf.of	*
	Liverpool (Bidston)	1031·4	33	ENE	1	m	1031·0	-1	36	-3	ENE	1	E	o	1	-	36	31		bm	c.oc	-
	Holyhead ...	1031·3	35	-	0	bm	1031·7	0	40	+4	W	3	-	b	1	-	42	32	x.b.bc.c	o c.bc.b	bx.c.bc	0·0
	Pembroke (St. Ann's)	1031·4	34	ENE	2	b	1033·0	+1	31	-4	NE	1	-	b	-	-	39	31	c.bc.b	b.bc.b.	bc.c.b	0·6
	Hartland Quay	1030·6	36	ENE	3	b	1032·7	+1	35		E	3	-	b	2	-	40	34	c b	b -	o.bc.b	6·0
	Scilly (St. Mary's)	1028·1	41	E	3	c	1031·2	0	37	-9	E	4	-	bc	5	-	47	36	c.bc.	bc.c.	bc	*
	Falmouth ...	1028·8	34	NE	3	c	1031·0	+1	30	-10	ENE	3	-	b	*	-	42	30	oq.c.bc.	b.	b	3·2
	Jersey (St. Aubin)	1026·1	38	ENE	5	o	1027·9	*	34	-4	ENE	3	-	b	2	-	40	34	bc.o.	o	o b	1·7
	Portland Bill ...	1028·1	35	NE	4	b	1030·8	+1	35	-3	NE	3	-	c	4	-	40	34	bc.c.	bc.b	c	0·0
	Dungeness ...	1027·3	36	NE	4	cq	1029·0	0	35	-2	NE	3	-	c	3	1	40	33	cq.o.c.	cb.q	bcx	*
	Dover	*	*	*	*	*																
	Wick	1024·9	36	WNW	2	omfph	1021·2	-2	39	+3	W	4	-	omq	5	3	39	34	bc.o	o.omfph	cp.omq	*
	Nairn	1027·0	37	-	0	cq	1023·8	*	39	+3	W	2	-	bc	1	Trace	39	35	o.c	od.c.	c.bcx	0·0
	Aberdeen ...	1026·7	38	W	3	bc	1024·5	-2	39	+4	W	3	-	c	2	-	41	34	bc.	bc.c	c bc.	2·2
	Leith	1025·1	36	W	1	bc	1027·4	-1	38	+13	W	2	W	b	1	0·3	38	25	cg.bgc.	bg.c.bc	bcgb.b	*
	Tynemouth ...	1028·7	32	NW	2	bm	1027·6	-2	36	+6	W	3	-	bcm	3	-	36	33	bm	bm	om	*
	Spurn Head ...	1030·4	35	NW	3	bc	1029·9	0	34	-4	WNW	2	-	o	4	-	38	30	c	bc	b omx	0·0
	Yarmouth (Gorleston)	1028·7	37	NE	3	bc	1030·0	0	29	-7	NW	2	-	b	2	-	40	28	bc	bc	c.b	2·7
	Clacton-on-Sea	1029·2	34	NNW	2	bc	1030·3	0	33	-2	NW	2	-	bc	2	-	37	32	o.c	c.bc.	bc.a.bc	0·2
	Nottingham ...	1031·1	32	E	1	b	1031·2	*	24	-11	W	1	-	omac	*	-	37	22	om.	om.c.	b.bcm	0·0
	Benson (Oxon.) ...	1030·4	32	NE	1	o	1032·1	+1	19	-11	-	0	-	b	*	-	33	19	om	o	c.bm	*
	Sth Farnborough	1029·7	35	NNE	2	og	1031·2	0	26	-7	-	0	-	bg	*	-	36	26	om.og	og	o.bg	0·0
	Salisbury Plain	1029·8	38	NNE	2	o	1031·9	0	26		NE	2	-	b	*	-	35	23	o	o	bm	*
	London (Kew Obsy.)	1029·9	36	N	2	om	1031·3	+1	29	-2	ENE	1	-	bmx	*	Trace	38	28	om	om	om.bmx	0·0
NORTHERN EUROPE.	Spitsbergen ...	1013·5	-26	SE	1	b	1014·6	0	-27	-16	SE	2	*	b	*	*	10	-11				
	Vardö	1009·4	19	-	0	b	1010·8	+1	18	0	W	4	-	b	3	*	19	14				
	Bodö	1009·6	23	E	2	b	1007·0	-3	25	+2	E	2	-	c	2	-	25	16				
	Christiansund ...	1019·1	36	NW	6	o	1011·0	-6	34	+6	NW	4	-	o	4	3	36	28				
	Skudesnaes ..	1020·0	36	NNW	4	o	1018·8	+2	36	+4	-	0	-	o	2	4	37	32				
	Færder (X'ianiaFjord)	1019·4	28	NW	1	o	1019·4	0	21	+4	NNE	2	-	c	1	-	28	21				
	The Scaw (Skagen)	1020·3	34	SW	3	s	1019·4	+2	32	+2	NNW	3	W	c	3	-	37	30				
	Blaavands Huk	1025·8	37	WNW	3	o	1023·6		39	+9	NW	2	-	c	*	?	41	28				
	Copenhagen ...	1026·7	27	SW	1	f	1022·0	-1	36	+13	W	2	-	m	*	1	36	21				
	Bornholm ...	1026·0	28	NW	2	b	1023·0	-3	30	+3	SW	7	-	s	1	1	32	25				
FRANCE, &c.	The Helder ...	1029·5	30	SE	2	o	1030·0	-1	30	-6	SW	1	-	c	1	-	37	28				
	C. Gris Nez ...	1027·8	36	ENE	3	c	1027·9	0	23	-11	ESE	2	*	b	1	-	37	23				
	La Hêve	1025·4	30	ENE	3	c	1026·8	*	25	-7	NE	3	*	b	2	-	36	25				
	Brest (St. Mathieu)	1025·8	37	E	4	bc	1027·8	+1	38	-1	ENE	3	*	o	2	-	41	36				
	Rochefort (Ile d'Aix)	1019·5	28	ENE	6	am	1019·4	0	32	+5	NE	6	*	o	*	-	43	28				
	Biarritz	1015·0	37	S	2	m	1017·0	+2	46	+9	-	0	*	m	2	-	?	32				
	Paris	1024·7	27	NE	2	b	1026·6	+1	16	-12	NNE	2	-	b	*	-	34	16				
	Belfort	1023·1	21	E	6	fg	1023·4	*	22	+4	E	5	*	m	*	-	23	20				
	Lyons	1021·2	23	WNW	2	o	1022·0	*	23	+2	NW	2	*	o	*	-	24	21				
	Nice	1011·8	41	E	1	b	1014·3	+2	37	0	-	0	*	r	3	1	50	37				
	Perpignan ..	1013·2	37	-	0	b	1015·5	+2	39	+3	-	0	-	r	*	-	50	32				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1012·2	50	NE	4	bc	1016·0	+3	46	+3	NE	6	NE.	c	4	-	54	46				
	Madrid	1013·9	36	NE	1	c	1015·0	+1	32	0	NNE	1	-	bc	*	-	37	27				
	Lisbon	1005·1	50	NNE	5	r	1005·2	+1	46	-2	NNE	6	-	o	-	-	52	45				
	Azores (Horta) ...	1026·6	*	NE	3	o	1024·6	-1	55	+5	NNE	3	*	o	2	-	61	52				
	Madeira	1014·8	57	NW	5	o	1017·8	0	60	-2	N	4	N	r	4	1	61	50				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1012·0		54	+6	E	6	-	bc	-	15	57	48				
	Limassol	*	*	*	*	*	1006·7	-2	52	0	-	0	-	o	4	20	63	50				
	Alexandria ...	1012·2	64	W	5	c	1010·4	0	62	-2	SW	6	-	c	6	-	70	50				
	Cairo (Helwan) ...	1010·8	59	S	2	b	1014·8	+2	48	-2	S	3	-	b	*	-	68	46				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON — 23rd Dec. 9h. G.M.T.

	Humidity. 15 h. 22nd	Humidity. 9 h. 23rd	Sunshine for 22nd	24 hours ended 9 h. 23rd: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	73	87	0·0	38	36	24	0·0	o	o	o.c.bc
CITY (Bunhill Row)	*	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	0·0	39	?	28	0·0	om	m	om
CAMDEN SQ. (British Rainfall) ..	72	91	0·0	37	27	23	0·0	o	o	*
S. KENSINGTON (Museum Grounds)	*	75	0·0	38	29	-	0·0	o	o	c.bc.b

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 22nd.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
70	2·6	7

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,486. MONDAY, 24TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Rain or drizzle fell during the greater part of the day in the north of Scotland (5 mm. at Lerwick) with snow showers in the extreme north. Weather was generally fair to fine in the Southern Districts, some good sunshine records being obtained at South Coast stations. (St. Aubin's Jersey 7·0, Scilly 0·4 hours.)

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 23RD DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 23rd
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	1	46	36	bc.c	c.r.c	0·0
	Montrose	-	-	42	38	0	0	0·0
	St. Andrews							
Eng. N.E.	Harrogate	-	-	37	25	bc	bc	1·0
	Skegness	-	-	34	23	bc	b	0·4
England, E.	Felixstowe	-	-	37	28	bc	c.bc	2·2
	Southend-on-Sea							
England, S.E.	Margate							
	Hastings	-	-	38	29	bc	bc	6·2
	Eastbourne	-	-	37	28	b	b	5·9
	Seaford	*	*					
	Worthing	-	-	37	30	b	b	5·7
	Littlehampton							
	Bournemouth	-	-	39	30	b	b3	5·8
Scotland W.	Oban	Trace	1	47	30	r	0	0·0
Eng. N.W.	Morecambe	1	-	42	26	*om.c	*c.0.c	1·0
	Southport							
Midlands	Malvern	-	-	39	20	x.bc	bm.x	0·5
	Ross-on-Wye							
Wales.	Rhyl	Trace	1	41	24	bepx	x.d.0	0·2
	Colwyn Bay	-	-	41	29	c	bc	0·0
	Llandudno	*	*	42	27	cp	c	0·3
	Aberystwyth	*	*	38	26	0.c	bc.0	1·0
England, S.W.	Weymouth	*	*					
	Torquay	-	-	40	36	b	b	6·0
	Paignton	*	*					
	Penzance							
	Newquay	-	-	40	28	b	b	6·2
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 23RD DECEMBER

	STATIONS.	Evening of 22nd: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 23rd: Barometer. Millibars at M.S.L.	Change in 3 hours.	Temp. Dry Bulb.	Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1019·2	21	NNW	2	c	1022·2	0	16	-12	NNW	?	bc	-	*	12
	Yuriev															
	Petrograd	1016·0	21	SSW	3	0	1019·6	+2	21	+6	NW					
	Vijni Volotchok	1023·6	16	S	2	0	1023·4	-1	16		SE	2	S	-	*	14
	Gorki	1022·0	21	-	0	0	1025·4	*	16		-	0	0	-	*	16
	Moscow	1027·8	14	SE	3	0	1026·4	-2	16	+6	ESE	2	0	-	*	12
	Kiev	1022·7	21	S	1	0									*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1015·3	47	ENE	2	c	1017·4	*	36	-5	NNE	1	0	Trace	41	32
	Turin	1014·1	34	-	0	f	1018·2	*	34	0	-	0	f	-	36	32
	Pesaro	1014·3	43	-	0	0	1016·5	*	39	-7	W	1	0	-	45	37
	Leghorn	1011·4	45	-	0	bc	1013·8	*	41	-2	-	0	c	-	50	41
	Rome	1011·5	46	N	1	0	1014·2	*	37	-2	NE	1	bc	-	48	31
	Viesti	1015·5	48	WNW	2	bc	1011·8	*	46	0	WNW	4	0	22	?	46
	Brindisi	1008·9	54	N	1	c	1009·4	*	46	-8	NW	3	r	12	54	46
	Cagliari	1008·7	48	NW	4	bc	1013·9	*	45	-3	NNW	4	b	-	55	39
	Palermo	1007·1	46	-	0	0	1014·6	*	46	+3	WNW	1	bc	7	54	41
	Tripoli	1019·3	45	WNW	3	b	1015·8	*	45	+9	WSW	2	b	-	57	43
	Algiers	1013·9	54	WSW	1	b	1011·9		54		SW	3	c			
Sweden.	Hernösand	1018·7	9	-	0	b	1019·6	*	27	+17	SE	2	0	*	*	*
	Stockholm	1022·3	14	W	2	b	1017·5	*	9	-5	-	0	b	*	*	*
	Wisby	1023·8	27	NW	2	b	1021·4	*	30	+3	S	2	S	*	*	*

Morning of 23rd

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	F			
Isafjord	1013·9	25	-1	WSW	5	b
Reykjavik	1017·1	30	+6	SSW	2	0
Vestmanna	1018·3	32	-4	-	0	b
Seydisfjord	1013·2	25	0	NW	9	b
Thorshavn	1006·5	38	+7	WNW	4	0

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

24TH AND 25TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6 / 8·6	11·53 / 11·53	3·40 / 3·41
Greenwich	8·7 / 8·7	12·0 / 12·0	3·53 / 3·53
Wick	9·5 / 9·5	12·12 / 12·12	3·19 / 3·19
Valencia	8·51 / 8·51	12·41 / 12·41	4·31 / 4·32

Printed at the Meteorological Office, South Kensington, London, S.W. 7.
By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF MONDAY, 24TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
◯ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ⬤ rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

HIGH

LOW

HIGH

LOW

1005 mb. 1000 mb. 995 mb. 1000 mb. 1005 mb. 1010 mb. 1015 mb. 1020 mb. 1025 mb. 1030 mb. 1035 mb. 1030 mb. 1035 mb. 1025 mb. 1020 mb. 1015 mb.

29·68 in. 29·53 in. 29·38 in. 29·53 in. 29·68 in. 29·83 in. 29·97 in. 30·12 in. 30·27 in. 30·42 in. 30·56 in. 30·42 in. 30·12 in. 29·97 in. 29·83 in. 29·68 in. 29·53 in. 29·38 in. 29·53 in. 29·68 in. 29·83 in. 29·97 in. 30·12 in. 30·27 in. 30·42 in. 30·56 in. 30·42 in. 30·12 in. 29·97 in.

falling Barometer slowly

falling Bar slowly

40° 32° 20° 50°

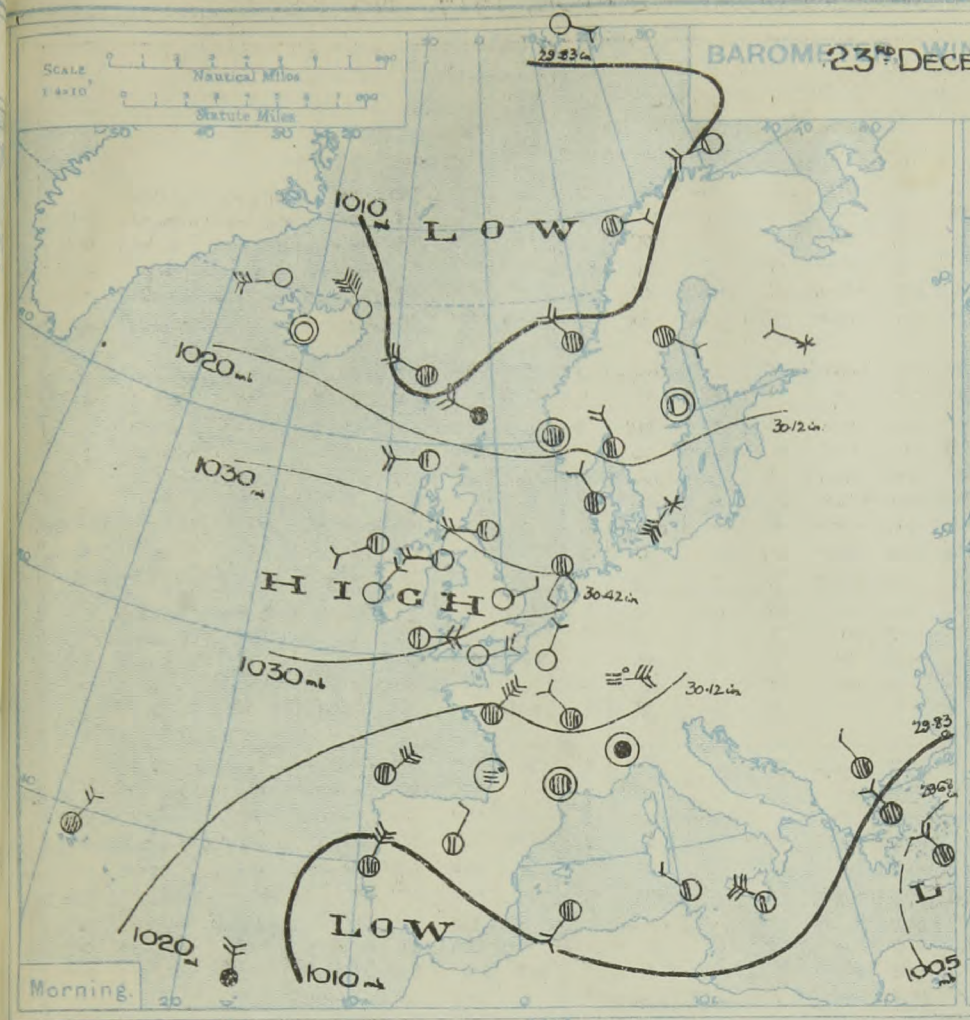
SCALE 1 : 9·8×10⁷
Nautical Miles 0 100 200 300 400 500
Statute Miles 0 100 200 300 400 500

Normal Temperature of the Sea

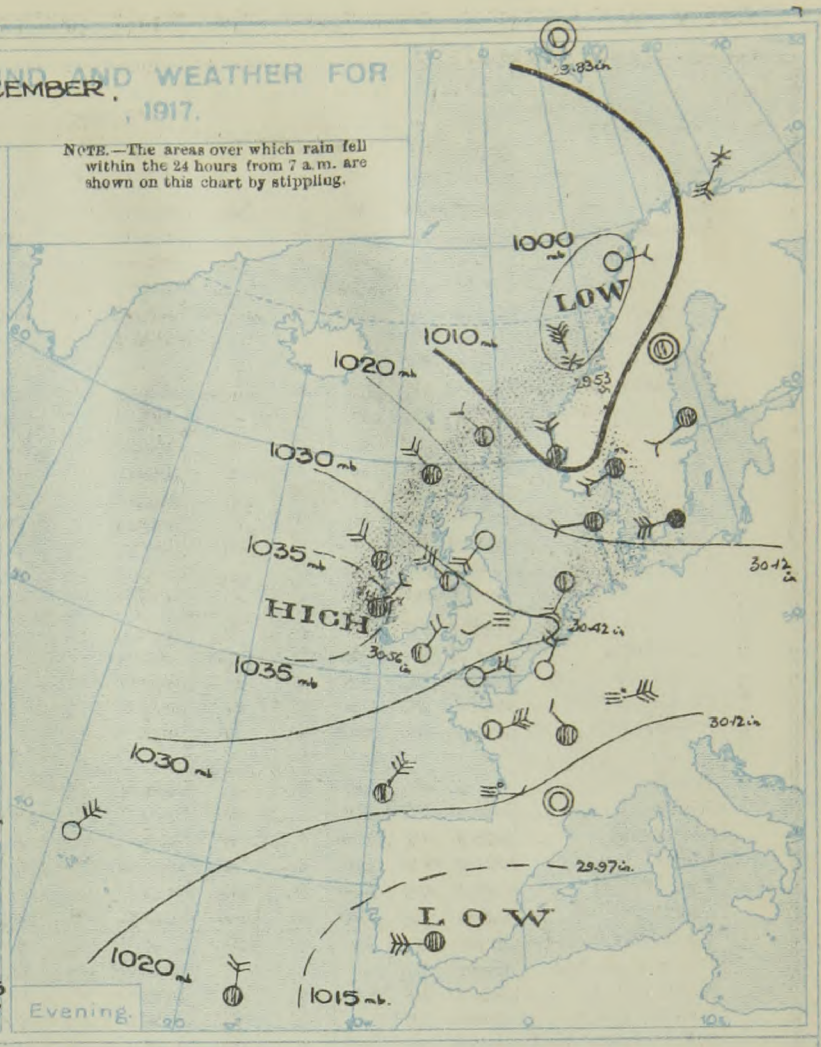
Below 40° | 40°-50° | 50°-60° | Above 60°

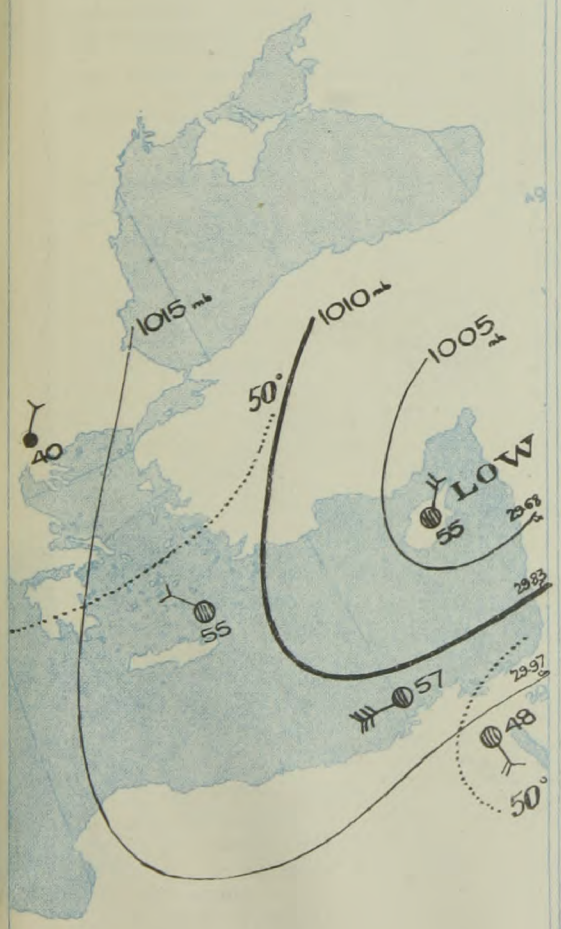
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 23rd DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

The anticyclone which has remained over the British Isles for the past few days has moved southward and now lies over France. A low which was to the north of Scotland yesterday is now centred off the Western Norwegian Coast. A fairly uniform gradient for North-Westerly winds, therefore, exists over the British Isles.

The General Outlook

There is at present no indication of any important change from the present North-Westerly type of distribution.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 358 — MONDAY, 24TH DECEMBER

	STATIONS.	EVENING OF 23RD: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 24TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 24TH: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 23RD. Hours.
BRITISH ISLANDS.	Lerwick ...	1013·3	35	NW	2	bc	1012·8	-1	38	-3	NW	2	–	c	2	5	42	33	or	bc sn	bc.o sn	*
	Deerness (Orkney)	1016·6	39	NW	4	c	1015·6	*	40	-3	W	3	–	b	2	3	45	38	or	r.c.bc.b	c.bc.o.b	0·0
	Stornoway ...	1021·5	45	NW	4	o p	1020·4	-2	42	0	NW	1	–	bc	1	4	46	40	bcm.o r q	or.o p	o.bc	0·0
	Castlebay (Barra Isd.)	1024·5	47	WNW	4	o p	1023·7	0	47	-2	WNW	4	–	o p	4	1	47	45	bc.o p	q p	o p	0·0
	Glasgow ...	1023·9	43	WSW	3	o m d	1022·7	0	44	+7	WSW	2	NW	o q	*	1	45	37	o m d p o	o m. o u d	o m d o.c	0·0
	Eskdalemuir ...	1024·9	41	W	4	o	1022·5	0	42	+7	WNW	5	–	bc	*	0·4	44	34	c.q p.o	o	o d .o.c	0·0
	Malin Head ...	1027·6	45	SW	6	o													c m q	o m d		
	Blacksod Point	1032·7	45	NW	4	b c m	1032·0	-2	46	+5	WNW	5	–	o m p	5	2	46	39	bc p	bc p	q p.c m p	*
	Valencia (Cahirciveen)	1035·8	36	NE	2	o	1035·1	0	46	+17	N	4	N	o	0	0·5	46	28	bx.bc	c	o.c.o	3·7
	Roche's Point	1034·8	38	N	2	c	1033·4	*	43	+13	NW	3	N	bc	3	0·1	43	32	b.b c m	bc.c e	c.bc	*
	Birr Castle ...	1033·1	35	S	1	c	1031·6	*	43	+23	NW	1	–	o	*	1	43	20	bc. c	c	r r s o	0·0
	Donaghadee ...	1027·8	40	W	4	c	1025·4	0	45	+10	WNW	4	–	o m	3	–	45	33	bc m.o f	c q	q m o	*
	Liverpool (Bidston)	1028·4	40	W	4	c	1025·0	-2	44	+8	WSW	5	W	o q	4	–	44	36	c	o q	o q	0·9
	Holyhead ...	1030·2	43	WNW	5	o c	1027·2	-1	46	+6	WNW	6	–	o m p	5	?	46	40	b.bc.c	c.c	o.c.o	1·8
	Pembroke (St Ann's)	1032·4	41	WNW	1	bc	1029·7	0	46	+15	WNW	3	–	c	2	–	46	32	b	b.bc.c v	bc.c	4·5
	Hartland Quay	1032·2	43	NNW	3	c	1029·7	-1	47	+12	NNW	3	–	o	3	–	47	32	b q	b q .o.c	o	*
	Scilly (St. Mary's)	1033·0	40	NE	3	bc	1032·3	-1	47	+10	N	4	N	o	?	0·3	?	?	bc.c	c.bc	bc.q p.o	6·4
	Falmouth ...	1031·9	34	NNE	2	b y x	1030·2	-1	45	+15	NW	3	–	o	*	Trace	45	30	b y	b y q	b y c d o	5·7
	Jersey (St. Aubin)	1029·3	36	ENE	3	b	1028·6	*	39	+5	W	2	–	o g	2	Trace	40	30	b	b	b.o.d o	7·0
	Portland Bill ...	1030·5	35	NNW	2	b	1027·8	-2	43	+8	NW	4	–	c	3	–	43	34	c.bc	bc.b	c	*
	Dungeness ...	1029·1	34	WSW	1	b	1024·7	-2	36	+1	W	3	–	r	2	0·2	36	26	bc x	b	bc.r	*
	Dover	*	*	*	*	*											*		*			
	Wick	1020·2	40	W	3	c	1019·7	-3	37	-2	WNW	3	–	c	3	2	44	35	q m r	or.c m p	o.c m p	*
	Nairn	1020·1	44	W	1	o	1019·7	*	43	+4	W	1	–	o	1	1	46	38	bc.c.o	o p.c	p q .o	0·0
	Aberdeen ...	1020·8	42	WNW	4	r	1019·4	-1	39	0	S	1	–	o	2	2	44	38	c.o	or	o r.o	0·0
	Leith	1021·5	42	SW	2	o	1021·0	0	41	+3	SW	1	–	b	2	0·4	45	38	bc q.c.o	o.c q.c.o	o.c.q.b	*
	Tynemouth ...	1023·5	40	SW	4	o m	1021·8	0	42	+6	-	0	–	c	3	-	44	29	bc m	bc m	c m	*
	Spurn Head ...	1026·6	36	WNW	4	b m	1021·5	-2	40	+6	WSW	4	–	o m	4	-	40	34	c m	bc m	o d m	0·2
	Yarmouth (Gorleston)	1027·0	31	NW	2	b f	1021·8	-2	37	+8	NW	3	–	o m d	3	-	36	28	o f	o f. b	bc x d	0·2
	Clacton-on-Sea	1030·0	33	W	1	c	1023·8	-2	36	+3	W	2	–	o	1	1	39	30	bc.c y	c y	bc m x d	6·1
	Nottingham ...	1028·3	34	W	2	b	1023·4	*	44	+20	WNW	3	NW	o	*	0·2	45	24	bc m	bc m	c.o	2·4
	Benson (Oxon.) ...	1030·6	25	-	0	b	1025·0	-2	37	+18	W	2	–	o	*	1	37	18	b m	b		*
	Sth Farnborough	1030·3	27	NW	2	b y	1024·3	-2	37	+11	WNW	2	–	o m	*	1	37	24	b y	bc.b y	b o r.o m	5·3
	Salisbury Plain	1031·5	33	NW	3	bc									*				b	bc m		*
	London (Kew Obsy.)	1030·0	32	SW	1	f x	1025·5	-2	36	+7	SW	1	–	o	*	0·4	36	29	b m x b x	b m.b f	b f x m r.a	3·4
NORTHERN EUROPE.	Spitsbergen ...	1011·8	-20	-	0	b	1008·3	-1	-6	+21	S	1	*	b	*	*	?	-20				
	Vardö	1011·1	10	SW	4	s	1007·1	0	21	+3	SW	6	–	S	4	*	?	10				
	Bodö	999·8	28	E	2	b	997·0	0	23	-2	E	4	E	c	2	–	28	21				
	Christiansund ...	999·9	34	NNW	7	s	999·8	+1	37	+3	SW	8	–	r	7	16	3	27				
	Skudesnaes ...	1008·6	39	NNW	4	c	1008·3	-1	37	+1	NNW	6	–	o	4	–	43	32				
	Færder (X'tiania Fjord)	1003·0	+1	SW	6	r	1001·2	-1	32	+11	W	4	–	b	2	2	41	21				
	The Scaw (Skagen)	1011·6	36	SW	3	o	1009·2	0	36	+4	WNW	3	E	b	-	2	39	30				
	Blaavands Huk	1019·9	+1	W	2	c	1013·8	0	39	0	NW	2	–	c	*	1	+1	34				
	Copenhagen ...	1019·2	36	W	3	m	1008·7	-1	36	0	WNW	3	–	b		3	36	34				
	Bornholm ...	1019·1	36	W	6	r	1007·1	+4	34	+4	WSW	9	–	s		2	36	28				
FRANCE, &c.	The Helder ...	1025·6	37	SW	3	b c	1019·6	+1	41	+11	W	3	–	c	1	1	?	?30				
	C. Gris Nez ...	1029·2	32	-	0	o	1019·6	+1	+1	+18	W	3	*	c	1	1	?	?				
	La Hève							*					*									
	Brest (St. Mathieu)	1030·6	39	NE	2	c	1031·4	-1	41	+3	NE	3	*	o	*	–	43	33				
	Rochefort (Ile d'Aix)	1023·9	27	ENE	6	b	1028·0	?	32	0	-	0	*	b	2	–	32	19				
	Biarritz	1020·6	32	E	1	m	1025·0	+1	30	?	E	2	*	m	1	–	33	30				
	Paris	1028·0	19	NNE	3	b	1028·7	0	12	-4	-	0	–	b	*	–	25	12				
	Belfort	1025·1	23	ENE	5	m	1027·6	*	23	+1	E	3	*	m	*	–	25	22				
	Lyons	1023·2	25	NW	1	o	1026·2	*	27		N	3	*	o	*	–	26	24				
	Nice												*									
	Perpignan ...	1018·4	32	-	0	b	1021·2	+3	30		W	1	–	m	*	–	41	40				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1018·4	46	NE	6	c	1023·0	+3	45		NE	7	–	c		-	48	43				
	Madrid														*							
	Lisbon	1008·4	46	NNW	4	o	1011·0	+2	45	-1	NW	2		o	3	3	46	45				
	Azores (Horta) ...	1025·1	*	NE	5	c	1024·6	+1	55	0	ENE	6	*	bc	3	-	59	55				
	Madeira	1016·3	57	N	4	o	1013·6		54	+4	W	1	N	r	2	4	63	50				
	Gibraltar	1012·8	53	W	6	o	1016·9	*	51		SW	4	*	bc	3	-	56	50				
	Malta	*	*	*	*	*	1016·7	+1	52	-2	SW	1	–	c	1	-	57	50				
	Limassol	*	*	*	*	*	1003·1	-1	55	+3	NE	3	-	o	4	29	61	50				
	Alexandria ...	1011·5	59	W	7	o	1011·5	+1	57	+5	W	7	W	c	7	-	64	52				
	Cairo (Helwan) ...	1015·2	57	SW	3	b	1016·8	+2	48	0	S	3	–	o	*	6	64	46				

LONDON — 24TH DEC. — 9h. G.M.T.

	Humidity. 15 h. 23RD %	Humidity. 9 h. 24TH %	Sunshine for 23RD. Hours.	24 Hours ended 9 h. 24TH. Temperature. Max. °F.	Min. °F.	Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Afternoon.	Night.
GREENWICH (Royal Observatory)	82	95	0·0	38	27	23	Trace	bc m	bc m	o.d
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)				39	27	25	1	m f	m	r.m
CAMDEN SQ. (British Rainfall) ...		95	0·8	38	27	25	Trace			*
S. KENSINGTON (Museum Grounds)	*		0·3	39	29	-	0·0	b m	b m	b m.a

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 23RD.

Total.	Average Rate.	Max. Rate.
Joules. 120	Milliwatts. 4·4	Milliwatts. 12·5

†The thermometers at Greenwich and Camden Square are in Glaisher screens.

GALES.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,487. TUESDAY, 25TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature rose to 45° or a little higher in most parts of the United Kingdom, and in many places fell below 35° at night. Slight rain was experienced in many British and Irish localities, and at a number of stations there was no sunshine. The brightest regions were Scotland and the North-East and East of England. At St. Andrews, Harrogate, and Spurn Head the sunshine records were about 3 hours.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 24TH DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 24TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	Trace	Trace	62	38	bc.c	cr.c	1·1
	Montrose							
	St. Andrews	*	*	46	37	c	c	3·1
Eng. N.E.	Harrogate	-	-	45	32	b	b.bc	2·9
	Skegness	1	-	45	30	o	c	2·8
England, E.	Felixstowe	Trace	-	43	29	om.bc	bcm	1·9
	Southend-on-Sea	1	-	42	30	o	o	0·1
England, S.E.	Margate	1	-	42	31	of	oem	0·0
	Hastings	Trace	-	44	30	op.bc	bc.o	1·4
	Eastbourne	1	Trace	44	27	bc.o	bc.om	0·6
	Seaford	*	*	44	27	c	c	0·6
	Worthing	Trace	-	43	28	o	o	0·5
	Littlehampton			43	28			0·2
	Bournemouth	1	-	48	34	o.bc	bc	3·5
Scotland, W.	Oban	2	4	47	39	op	bc	0·0
Eng. N.W.	Morecambe					*	*	
	Southport	1	Trace	45	34	o.c.o	or.o	0·0
Midlands.	Malvern							
	Ross-on-Wye	-	-	48	30	bc	b.bc	0·6
Wales.	Rhyl							
	Colwyn Bay							
	Llandudno	*	*	46	42	op	op	0·0
	Aberystwyth	*	*	45	33	r.o.c	c.o	0·0
England, S.W.	Weymouth	*	*					
	Torquay							
	Paignton	*	*	47	32	o	o	0·0
	Penzance	1	-	49	36	o	o.c	0·0
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF....24TH DECEMBER.....

	STATIONS.	Evening of 23RD: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 24TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1022·8	16	S	3	o									*	
	Hangö						1005·1	-7	34	+18	SSE	4	o	*	*	10
	Yuriev															
	Petrograd	1019·4	14	W	1	S	1015·6	-2	9	-12	SSE	2	b	1	20	7
	Vijni Volotchok						1021·1	-1	0	-16	SW	1	o	3	*	?
	Gorki							*							*	
	Moscow	1026·3	18	NW	2	S	1022·6	0	14	-2	W	1	o	2	*	14
	Kiev	1026·2	18	NW	2	o	1028·4	0	14		NW	2	o	-	*	14
	Kharkov														*	
	Kishinev							•							*	
	Elisabetgrad						1027·1	+1	21		N	2	S	-	*	19
	Nicolaiev						1027·8	*	21		NE	2	o	-	*	23
	Odessa						1026·0	+1	21		ENE	3	b	-	*	21
	Tarkhankout							*							*	
	Soukhoum						1022·3	o	41		-	o	r	1	*	*
Mediterranean.	Venice	1019·4	36	ENE	1	o	1020·2	*	34	-2	NE	1	o	-	41	34
	Turin	1019·4	36	-	o	f	1020·1	*	36	+2	-	o	f	-	36	35
	Pesaro	1018·6	37	W	1	b	1019·3	*	36	-3	SW	1	bc	Trace	41	34
	Leghorn	1015·8	43	-	o	c	1016·3	*	39	-2	-	o	c	-	46	39
	Rome	1016·3	43	N	1	b	1017·4	*	37	o	N	1	o	-	48	36
	Viesti	1016·9	48	NW	4	o	1018·2	*	45	-1	WNW	1	c	-	48	45
	Brindisi	1017·0	43	SSW	1	b	1015·3	*	52	+6	SSW	3	r	-	52	43
	Cagliari	1015·5	48	NNE	4	b	1013·9	*	46	+1	NNW	4	b	-	54	41
	Palermo	1015·8	45	SW	1	bc	1017·0	*	43	-3	S	1	b	-	59	37
	Tripoli							*								
	Algiers	1013·0	54	-	o	c	1016·2	+4	54	o	WSW	5	c	-	63	52
Sweden.	Hernösand	1011·2	9	-	o	bc		*						*	*	*
	Stockholm	1011·9	28	SW	2	o		*						*	*	*
	Wisby	1013·9	34	W	2	o		*						*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1022·8	18	-7	-	o	b
Reykjavik	1024·4	25	-5	-	o	b
Vestmanna	1021·9	32	o	N	5	b
Seydisfjord	1019·9	25	o	N	4	b
Thorshavn	1009·6	35	-3	WNW	3	o

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

25TH AND 26TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6 / 8·6	11·53 / 11·54	3·41 / 3·42
Greenwich	8·7 / 8·7	12·0 / 12·1	3·53 / 3·54
Wick	9·5 / 9·5	12·12 / 12·13	3·19 / 3·20
Valencia	8·51 / 8·51	12·41 / 12·42	4·32 / 4·33

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By Wyman & Sons Ltd., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF TUESDAY, 25TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

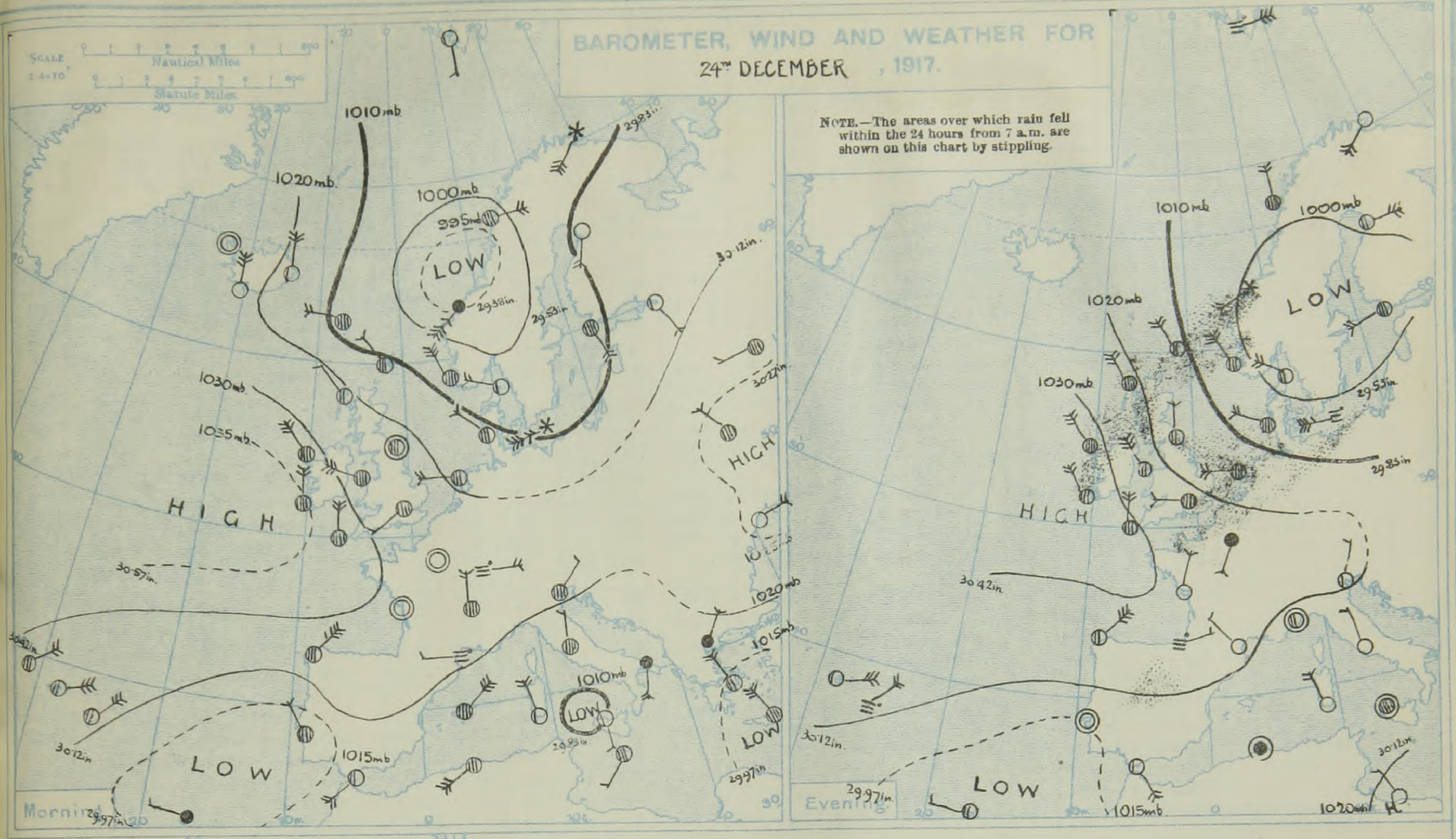
TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

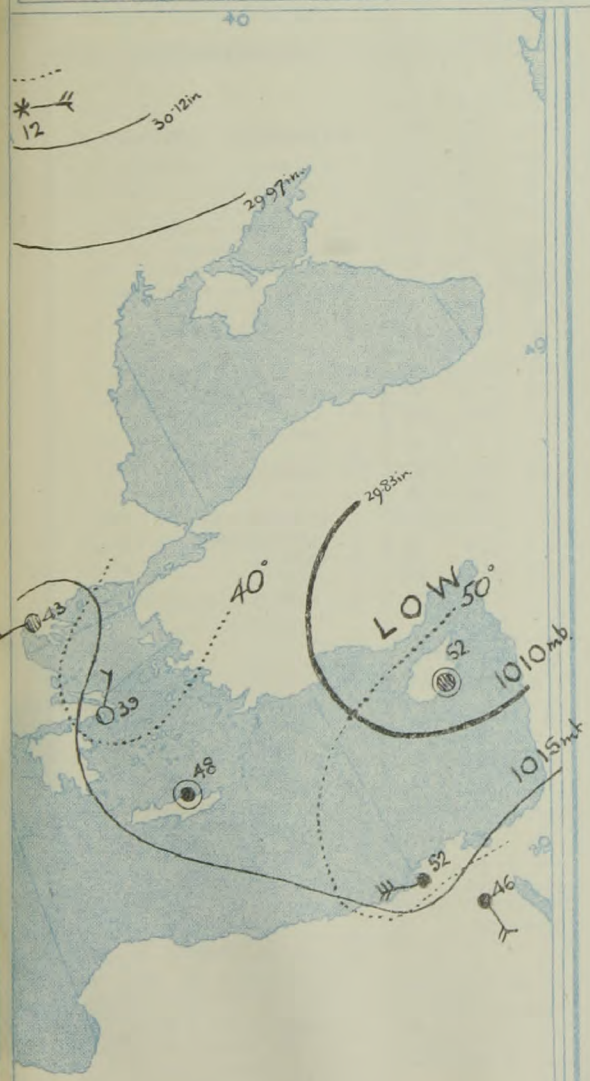
WEATHER.—Shown by the following symbols:—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded. ◕ sky ¾ clouded. ● overcast sky. ● rain falling. ✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder. ⊼, thunderstorm.

SEA DISTURBANCE.—Rough ~~ High ≈≈

Scale 1 : 2×10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.





The Present Situation

A large anticyclone centred beyond the West of Ireland continues to extend to our western districts, while pressure is nearly as high over Central Russia and even higher to the northward of Iceland. A depression is shown over the Baltic and some ill defined disturbances over the Mediterranean region, while there are some indications of a depression between Iceland and Greenland. The Northerly current of wind prevalent over the British Isles and the North Sea region has considerable strength, but elsewhere the winds are moderate or light.

The General Outlook

The chief modification in the pressure distribution during the day was the development of a depression over Italy and the surrounding regions, causing an increase of wind from the North-West in the South of France, a gale from NNE. in the Balearic Isles, and snow in places.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 350 { TUESDAY, 25TH DECEMBER

	STATIONS.	EVENING OF 24TH: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 25TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 25TH: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather Morning.	Weather Afternoon.	Weather Night.	Sunshine for 24H Hours.
			°F.					‡	°F.	°F.							°F.	°F.				
BRITISH ISLANDS.	Lerwick ...	1013·5	33	NNW	4	bc	1021·3	0	29	-7	N	6	-	sqr	5	4	36	27	c.bc	bc sp	bc.sp q	*
	Deerness (Orkney)	1016·2	36	NNW	6	c	1023·0	*	32	-8	NNW	6	-	b	5	2	41	32	c.q r	r.c	q r.c	0·2
	Stornoway ...	1022·0	43	NNW	5	o q	1029·2	+3	36	-6	NNW	5	-	o q	4	1	46	36	c o r q	o q	c. o q	0·8
	Castlebay (Barra Isd.)	1024·2	46	WNW	4	o r													o r	r. o r		
	Glasgow ...	1019·7	45	WSW	3	bc	1026·3	+3	33	-11	NW	1	-	b	*	0·2	46	33	o.c. o r	o.c	bc.bx	0·0
	Eskdalemuir ...	1019·6	44	NW	4	c	1025·5	+2	31	-11	NNW	4	-	bx	*	-	46	29	bc.c.o	o. o d. c	c.bc.bx	0·7
	Malin Head ...	1024·7	47	NW	5	r	1028·5	?	45		N	6	-	o r q	-	1	47	40	o r q d	o r q r	r q r	0·0
	Blacksod Point	1030·2	46	NW	5	o q	1032·5	+2	46	0	NNW	5	-	c r	5	1	46	43	o q q r	o q r	bq r o r	*
	Valencia (Cahirciveen)	1033·8	46	NNW	4	c	1033·6	+2	46	0	N	3	N	c		0·5	48	45	o.c.o	o . c	c	0·0
	Roche's Point	1032·1	44	NW	4	o	1031·3	*	45	+2	N	4	-	o		0·1	48	41	b.bc.c o	c . o	c . o	*
	Birr Castle ...	1030·2	45	W	2	o	1030·8	*	43	0	W	1	-	o	*	-	45	43	o	o	o	0·0
	Donaghadee ...	1022·9	46	WNW	4	o r	1026·1	+1	44	-1	NW	4	NW	bc q	4	0·4	47	43	c g r	o r	o.c r q	*
	Liverpool (Bidston)	1022·1	45	W	5	c e	1024·2	+2	41	-3	WNW	3	W	c	3	-	46	40			b.bc	0·0
	Holyhead ...	1024·8	47	NW	6	c r	1026·0	+1	45	-1	NW	7	-	bc	6	-	47	44	c r	o r	c g . bc	0·0
	Pembroke (St. Ann's)	1028·4	47	WNW	3	c	1027·8	0	46	0	WNW	4	NW	bc	3	-	47	46	c	c w	c . bc	
	Hartland Quay	1028·8	48	NNW	3	o	1026·8	-1	48	+1	NNW	4	-	o	4	-	48	46	o	o.c.o r q	o	*
	Scilly (St. Mary's)	1031·2	48	N	4	c	1029·3	-1	48	+1	N	5	N	o	4	-	48	45	o	o c	o.c.o	0·0
	Falmouth ...	1029·1	46	NNW	2	o	1027·3	0	46	+1	NNW	3	-	o	*	Trace	48	44	o	o.e.o	o r	0·0
	Jersey (St. Aubin)	1026·9	47	NW	2	o	1024·6	*	47	+8	WNW	4	-	o	3	0·3	48	39	o d . o	o . c . o	c g . o	0·0
	Portland Bill ...	1025·4	47	NW	4	bc	1023·5	0	47	+4	NW	4	-	bc	3	-	48	43	c . bc	bc	c . bc	*
	Dungeness ...	1021·5	39	W	3	c	1020·2	+2	40	+4	N	4	N	c	3	1	44	35	o . c	c	o.c r . c	*
	Dover	*	*	*	*	*											*	*				
	Wick	1017·3	39	NNW	4	bc	1023·6	+3	40	+3	N	5	-	c	4	3	43	33	c m r	c r . b c m	c m r s h	*
	Nairn	1019·6	42	WNW	4	c q q	1026·6	*	36	-7	WNW	4	-	c q q	3	1	45	35	o r c	c q	q . bc	0·0
	Aberdeen ...	1016·9	41	NW	6	o r q	1022·9	+2	36	-3	NNW	5	-	c	3	1	44	36	c . bc . b q	bc q . o r	bc . s p q	1·7
	Leith	1018·4	45	W	1	o	1025·4	+1	38	-3	NW	2	NW	c	3	-	47	38	b . b c . c	c w . c g . o	bc . o w c	*
	Tynemouth ...	1017·5	46	N	2	b c m	1021·9	+2	36	-6	NNW	3	-	b c m	4	1	47	35	bc m	bc m	b c m r	*
	Spurn Head ...	1018·1	42	W	4	c q	1019·9	0	37	-3	NW	6	-	c q	6	1	42	35	bc m	c m	bc q	3·2
	Yarmouth (Gorleston)	1019·0	38	NW	3	c	1017·9	+2	36	-1	NNW	7	-	bc	5	1	43	35	o f . d	bc . f	c f . bc q	1·5
	Clacton-on-Sea	1020·6	38	WNW	3	r	1020·4	+2	35	-1	NW	5	-	bc	2	0·3	43	35	o f . c m q	c . bc m e	c g . bc	0·5
	Nottingham ...	1021·1	47	WNW	3	o	1023·3	*	37	-7	NW	2	-	b	*	-	48	36	o . c m	c . o	o . c	0·2
	Benson (Oxon.) ...	1023·7	41	W	1	o	1023·3	+2	38	+1	-	o	-	o	*	-	43	36	o	o	o	
	Sth Farnborough	1023·3	42	WNW	3	o	1023·0	+3	40	+3	N	3	-	o	*	Trace	44	37	o m r	o . c . o	o d . o	0·0
	Salisbury Plain														*							
	London (Kew Obsy.)	1022·5	43	W	2	o	1022·9	+2	40	+4	NNW	2	-	o	*	1	45	36	o m . o	b c m . b c m	u m . o r . o	0·0
NORTHERN EUROPE.	Spitsbergen ...	1007·6	5	E	6	r	1009·5	0	3	+9	NNE	4	*	c	*	*	7	-8				
	Vardö	1009·1	19	SW	4	b	1012·8	+1	14	-7	-	0	-	bc	3	*	23	9				
	Bodö	1001·4	25	N	4	o	1005·1	+2	21	-2	E	1	-	bc	1	-	27	14				
	Christiansund ...	999·9	34	SW	3	s	1007·5	+4	28	-9	NW	4	-	o	5	21	37	27				
	Skudesnaes ..	1003·1	34	NW	5	c	1009·1	+6	32	-7	NNW	7	-	c	4	*	37	32				
	Færder (X'tiania Fjord)	999·4	34	NW	2	b	999·2	+2	34	+2	N	6	-	c	2	-	34	30				
	The Scaw (Skagen)	996·8	34	WNW	4	bc	999·4	+5	36	0	N	5	-	c	6	-	37	32				
	Blaavands Huk	1005·5	36	SW	3	o	1003·1	-1	37	-2	N	3	-	c	*	3	43	32				
	Copenhagen ...	1003·2	32	W	3	bc	996·3	+2	36	-6	N	2	-	b	*	Trace	36	28				
	Bornholm ...	1003·0	36	W	7	r	995·2	-1	30	-4	NNW	3	-	o	1	4	36	30				
FRANCE, &c.	The Helder ...	1014·8	43	W	4	o	1012·4	+2	37	-4	SE	5	-	t e r	5	4	43	36				
	C. Gris Nez ...	1020·3	41	W	4	bc	1015·8	+2	39	-2	N	5	*	c	4	2	45	37				
	La Hêve	1023·2	41	W	3	o	1020·7	*	43		NW	5	*	o	5	5	43	41				
	Brest (St. Mathieu)	1030·3	45	N	3	o	1028·7	+1	45	+4	N	3	*	o	2	-	48	45				
	Rochefort (Ile d'Aix)	1029·2	32	NNE	2	b	1027·1	+1	39	+7	WSW	2	*	o	*	-	?	?				
	Biarritz	1028·6	30	ENE	1	r	1028·7	0	32	+2	-	0	*	c	0	-	32	27				
	Paris	1025·1	30	SSW	2	o	1019·6	-1	39	+27	WNW	3	-	o	*	1	39	16				
	Belfort							*					*		*							
	Lyons	1027·8	27	NNW	3	o	1024·3	*	25	-2	-	0	*	s	*	-	27	18				
	Nice	1018·3	39	-	0	bc	1014·4	+2	36		-	0	*	b	2	-	45	34				
	Perpignan ..	1023·0	32	NW	1	b	1024·0	0	37	+7	NW	3	-	bc	*	-	39	?				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1026·6	46	NE	6	bc	1024·0	+2	45	0	NE	5	-	b	3	-	48	43				
	Madrid	1022·2	37	NE	2	b	1027·6	+3	28		NE	1	-	b	*	6	39	28				
	Lisbon																					
	Azores (Horta) ...	1025·1	*	ENE	5	b	1025·1	0	55	0	ENE	5	*	b	3	1	59	55				
	Madeira	1011·5	57	W	1	bc	1016·2	0	54	0	NW	3	-	bc	3	-	59	54				
	Gibraltar	1018·6	54	SE	3	b	1018·3	*	55	+4	E	6	*	o	3	-	61	50				
	Malta	*	*	*	*	*	1015·1	+1	54	+2	WNW	3	-	bc	2	Trace	61	52				
	Limassol	*	*	*	*	*	1008·3	+1	52	-3	-	0	-	o	4	-	59	48				
	Alexandria ...	1013·6	61	WNW	6	bc	1014·3	+4	52	-5	WNW	5	W	r	5	12	64	52				
	Cairo (Helwan)	1018·4	57	SW	3	r	1017·6	+2	46	-2	S	3	-	r	*	Trace	64	45				

LONDON 25TH DEC., 9h. G.M.T.	Humidity. 15 h. 24TH	Humidity. 9 h. 25TH	Sunshine for 24TH	24 Hours ended 9 h. Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	88	68	0·0	45	37	30	Trace	o	o d	c
CITY (Bunhill Row)	*	*	0·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	92	75	3·4	45	38	31	0·3	o m	o	o d . m
CAMDEN SQ. (British Rainfall) ..	69	70	0·0	44	36	31	Trace			*
S. KENSINGTON (Museum Grounds)	*	69	2·2	44	37	-		o m	o m	o d . c

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 24TH

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
70	2·4	6

The thermometers at Greenwich and Camden Square are in Glaisher screens.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 29,488. WEDNESDAY, 26TH DECEMBER. 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature was fairly mild at our Southern and Western stations, touching 50° at Valencia, but in the east and north it remained below 40°, only 33° at Lerwick. The night frost was slight. Showers of rain, hail or snow fell in many places. Bright sunshine was very variable, ranging up to 6·2 hours at Harrogate.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 25TH DECEMBER

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 25TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	42	34	c.s.c	c	0·0
	Montrose	-	-	35	32	b	bc	0·0
	St. Andrews							
Eng. N.E.	Harrogate	-	Trace	45	32	bc	bc	6·2
	Skegness	1	-	36	31	b.bc	bc.o.s	2·9
England, E.	Felixstowe	Trace	Trace	37	32	bc	bc.os	2·8
	Southend-on-Sea	-	-	45	34	b.bc	b.bcc	5·7
England, S.E.	Margate	*	*	39	37	b	b.bc	2·0
	Hastings	-	-	45	36	bc.b	b	5·8
	Eastbourne	1	-	40	34	o.bc.b	b	4·1
	Seaford	*	*	45	35	bc	bc	3·5
	Worthing	-	-	40	35	c.bc	bc.b	1·3
	Littlehampton	*	*	44	37	b	b	3·5
	Bournemouth	-	-	44	38	bc	bc.b	2·5
Scotland W.	Oban	-	-	41	38	b	bc	4·1
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	39	35	c.o.c.bc.b	b	4·7
Midlands.	Malvern							
	Ross-on-Wye	-	-	46	34	bc.b	b	3·6
Wales.	Rhyl	-	-	43	39	c	c.bc.c	3·6
	Colwyn Bay	-	-	43	40	bc	bc	3·0
	Llandudno	*	*	46	40	c.b	bc	3·3
	Aberystwyth	*	*	44	40	r.o.c	bc.c	4·0
England, S.W.	Weymouth	*	*					
	Torquay	-	-	47	43	b	b.bc	5·3
	Paignton	*	*	49	43	b	b	5·4
	Penzance							
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 25TH DECEMBER

	STATIONS.	Evening of 24TH: Barom. Millibars at M.S.L.	Evening of 24TH: Temp.	Evening of 24TH: Wind Direc.	Evening of 24TH: Wind Force 0-12.	Evening of 24TH: Weather.	Morning of 25TH: Barometer. Millibars at M.S.L.	Morning of 25TH: Barometer. Change in 3 hours.	Morning of 25TH: Temp. Dry Bulb.	Morning of 25TH: Temp. Change in 24 hours.	Morning of 25TH: Wind. Direc.	Morning of 25TH: Wind. Force 0-12.	Morning of 25TH: Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel						1017·1	+3	1		SE	2	b	-	*	?
	Hangö	996·2	34	WSW	3	c	996·7	+2	32	-2	WSW	5	o	*	*	27
	Yuriev															
	Petrograd	1008·3	21	SSE	4	o	1009·6	+3	18	+9	S	4	s	-	25	7
	Vijni Volotchok	1018·4	16	S	2	o	1020·6	+1	10	+10	S	3	o	-	*	10
	Gorki	1025·6	5	SE	1	bc	1020·6	*	9		SW	3	o	-	*	5
	Moscow	1027·1	7	S	2	o	1026·8	-1	1	-13	SSE	3	o	-	*	0
	Kiev						1020·6	-4	12	-2	ESE	3	s	-	*	9
	Kharkov														*	
	Kishinev	1027·9	21	-	o	o	1016·7	-4	19		-	o	o	-	*	?
	Elisabetgrad						1019·5	?	o	-21	NE	2	tlr	-	*	o
	Nicolaiev	1022·6	23	ENE	4	o	1017·0	*	25	+4	N	2	tlr	-	*	23
	Odessa						1018·2	-4	25	+4	ENE	2	o	-	*	21
	Tarkhankout						1017·0	*	27		NE	3	o	-	*	26
	Soukhoum														*	
Mediterranean.	Venice	1020·1	34	NNE	1	b	1014·7	*	32	-2	-	o	o	-	36	32
	Turin	1018·3	34	-	o	o	1014·6	*	32	-4	-	o	o	-	37	32
	Pesaro	1019·7	39	NW	1	o	1014·5	*	36	o	SW	6	o	-	49	27
	Leghorn	1016·7	41	ESE	2	b	1013·9	*	36	-3	-	o	bc	-	46	36
	Rome	1016·6	41	N	1	b	1014·5	*	31	-6	N	1	c	Trace	45	31
	Viesti	1017·7	?	-	o	c	1014·6	*	43	-2	-	o	c	-	50	41
	Brindisi	1015·8	43	W	1	b	1013·3	*	45	-7	ESE	1	o	-	52	45
	Cagliari	1015·5	46	NNW	3	b	1016·9	*	46	o	NW	3	o	2	52	39
	Palermo	1015·1	46	-	o	o	1014·1	*	50	+7	?	1	b	10	57	35
	Tripoli	1021·0	46	NW	1	b	1021·5	*	46		W	1	b	-	63	43
	Algiers	1018·6	52	-	o	r	1021·8	+2	52	+2	NE	4	o	33	64	50
Sweden.	Hernösand							*						*	*	*
	Stockholm							*						*	*	*
	Wisby							*						*	*	*

ICELAND.	Morning of 25TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Weather.
		°F	°F			
Isafjord	1026·7	18	o	-	o	s
Reykjavik	1024·8	32	+7	W	5	r
Vestmanna	1029·5	36	+4	W	4	r
Seydisfjord	1034·0	16	-9	-	o	c
Thorshavn	1025·2	26	-9	NNW	4	o

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

26TH AND 27TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6	11·54	3·42
	8·6	11·54	3·43
Greenwich	8·7	12·1	3·54
	8·8	12·1	3·55
Wick	9·5	12·13	3·20
	9·5	12·13	3·21
Valencia	8·51	12·42	4·33
	8·51	12·42	4·34

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF WEDNESDAY, 26th DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. • rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
⚡, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈.

LOW 29·88in. 1010mb

29·97in

1015mb 1020mb 1025mb 1030mb

32° 20° 40°

HIGH

Barometer steady

Barometer falling slowly

Barometer rising

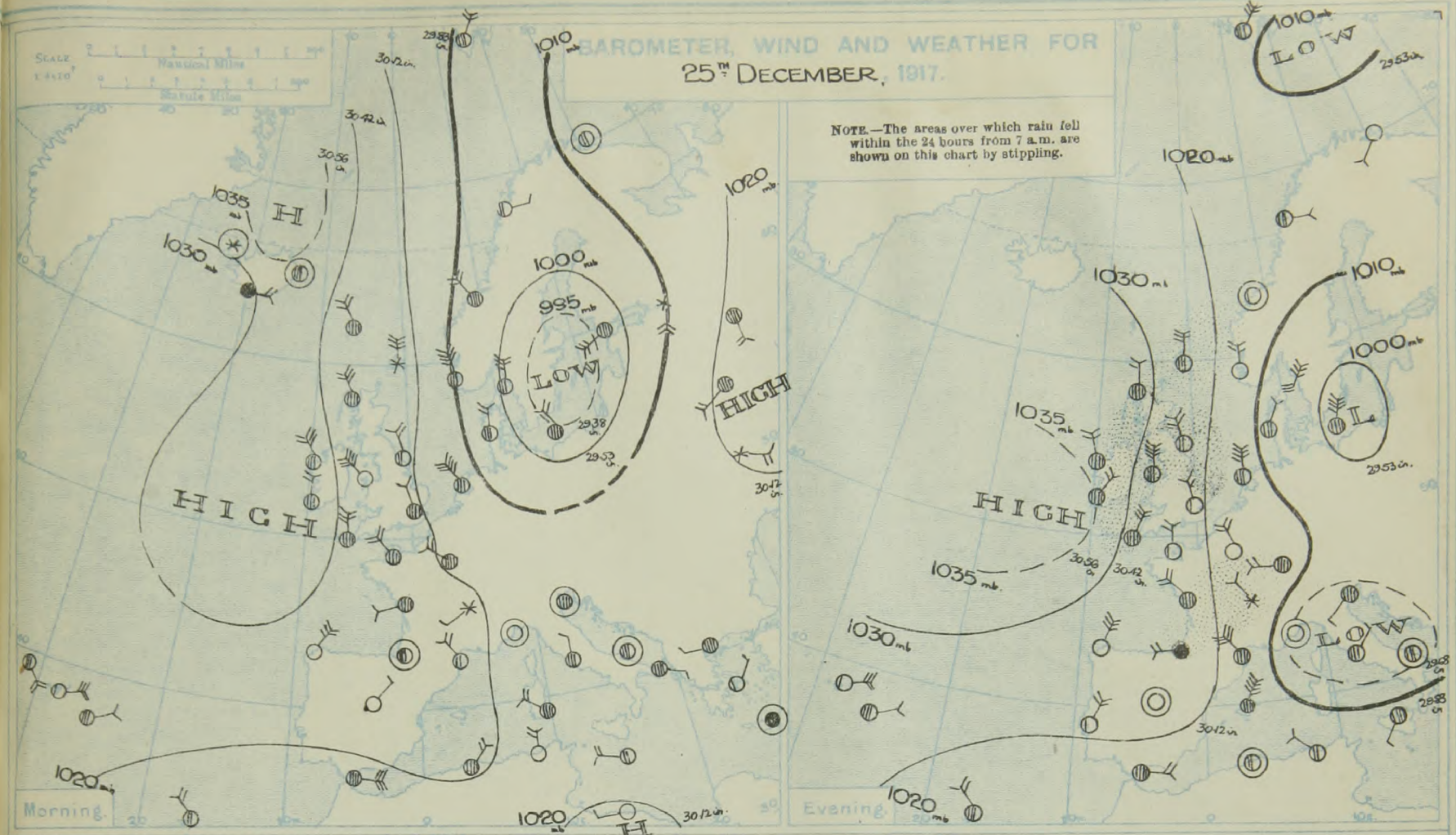
1010mb 1015mb 1020mb 1005mb 1000mb 995mb 990mb

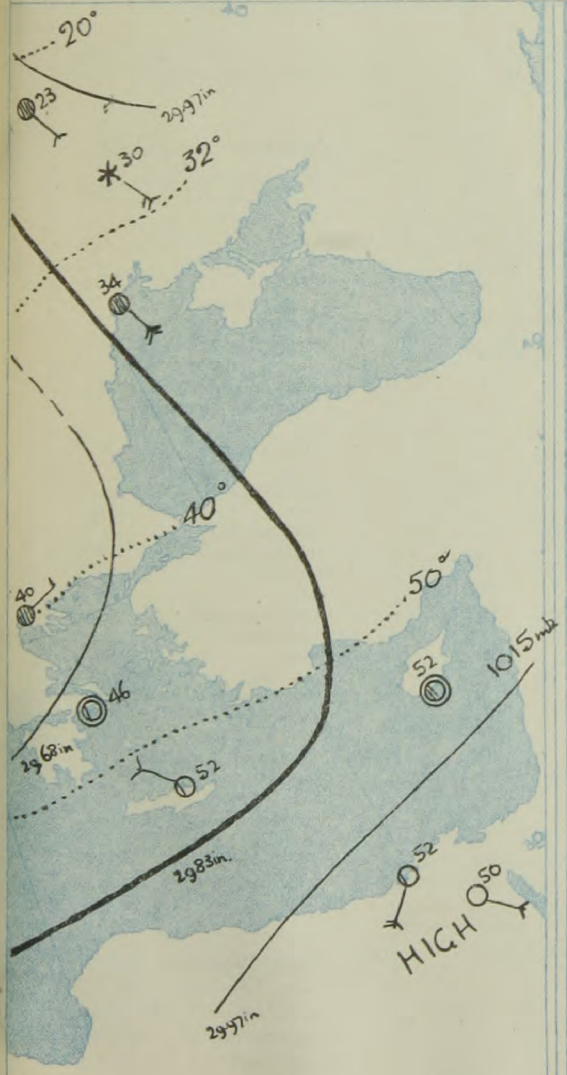
LOW 29·24in 29·38in 29·53in

30·12in 30·42in 30·27in 29·97in

Scale 1 : 2×10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea.
Below 40° 40°-50° 50°-60° Above 60°
Scale of Tints for DECEMBER.





The Present Situation

An extensive area of high pressure covers the Eastern half of the North Atlantic and the more Western and Northern parts of Europe, the barometer standing at about 1032 mb. in the West of Ireland. A disturbance of considerable depth, barometer 988 mb.; lies across Italy, and one of less intensity is indicated between Iceland and Spitzbergen. The wind circulations of the several systems are well shown, a Westerly gale locally in Iceland, a Northerly gale on Xiania Fjord, and a strong wind in a few other localities, but generally the force is light to moderate. Fine weather is reported on the Eastern half of the Mediterranean, but elsewhere overcast dull skies are the rule, with snow or cold rain showers at a few home and foreign stations. Temperature is low in most regions; only the Azores exceeding 55°.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 360

WEDNESDAY 26TH DECEMBER

	STATIONS.	Evening of 25th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 26th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Direc. of Upper Cloud.	Weather.	Sea 0–9.	24 hours ended 7 a.m. 26th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 25th
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
British Islands.	Lerwick ...	1025·4	30	N	5	cq	1025·6	0	33	+4	WNW	2	-	om	2	1	33	26	cq sp	cq sp	c. om	*
	Deerness (Orkney)	1027·4	32	NNW	5	o	1026·1	*	34	+2	NW	4	-	o	4	-	34	32	cp h.c	cp h. o	o	0·2
	Stornoway ...	1031·4	36	N	3	o	1029·1	0	34	-2	N	1	-	o	1	1	37	33	o. c	c. o	op sz	0·8
	Castlebay (Barra Isd.)	1031·8	39	-	0	o	1028·9	0	39		N	1	-	o	1	1	40	37	c. o	op	od. o	0·0
	Glasgow ...	1029·3	33	N	2	b	1028·0	0	30	-3	N	1	-	b	*	Trace	38	30	b bc. b	b	bc o. bx	3·5
	Eskdalemuir ...	1027·9	31	N	4	bc	1027·3	-1	27	-4	N	1	-	bx	*	-	35	26	bc. bcv	cyv. bc	bc. o. sc	3·9
	Malin Head ...	1031·2	42	NE	3	om	1028·5	*	42	-3	NNW	2	-	o g	2	1	46	40	om	om	omp	0·0
	Blacksod Point	1034·7	46	NNW	4	o q m	1031·6	-2	45	-1	NNW	6	-	om g	5	0·4	46	43	om	cq	cz. omp	*
	Valencia (Cahirciveen)	1035·1	48	NNE	3	b	1032·2	-1	48	+2	NNW	5	NW	o	-	-	50	46	bc. c	c	o	2·4
	Roche's Point	1032·5	45	NNW	3	c	1028·9	*	46	+1	NNW	4	-	o	4	0·1	48	43	o. c	c. om	c. om	*
	Birr Castle ...	1032·6	43	NW	2	o	1028·6	*	46	+3	NW	2	-	o	*	1	46	40	o. c	c. o d	o d. o	1·3
	Donaghadee ...	1029·3	41	N	5	bc m q	1026·9	0	40	-4	N	4	-	om p d	3	1	45	38	bc m q	bc q	bc m q r	*
	Liverpool (Bidston)	1026·6	37	NNW	4	o	1025·7	-2	34	-7	NNW	2	NW	o	2	-	41	33	c	o	o	4·5
	Holyhead ...	1028·2	43	N	7	cq	1026·0	-1	39	-6	NE	5	-	o	4	-	45	38	bc. c. b	b. bc. cq	c. om	2·8
	Pembroke (St. Ann's)	1027·7	43	N	5	bc	1026·7	-1	37	-9	N	1	-		3	1	47	37	bc	bc	bcg op	4·2
	Hartland Quay	1026·6	45	NNE	7	c	1025·6	-1	40	-8	NNE	4	-	o	4	-	48	39	o. b. q p q	o. bc. b	o. cq. o	*
	Scilly (St. Mary's)	1029·5	47	NNE	5	o	1027·1	-2	44	-4	N	4	N	o	5	1	49	43	o. c	c. o	c. q p d	1·7
	Falmouth ...	1027·3	34	N	7	c q z	1025·3	-2	39	-7	N	3	-	o	*	-	48	34	o. c. bcq	bq. bcz	bc. cq. o	3·8
	Jersey (St. Aubin)	1023·7	45	N	3	b	1021·8	*	38	-9	N	5	N	b	3	-	49	38	o. cp u c b	bc. b	b	2·0
	Portland Bill ...	1024·1	39	NNE	4	bc	1023·2	-2	34	-13	N	3	-	bc	3	-	48	34	bc.	bc	b. bc	*
	Dungeness ...	1020·0	39	NNW	4	b	1017·1	-1	30	-10	NNW	5	-	bc	4	-	40	29	bc	bc	bc	*
	Dover	*	*	*	*	*													*	*		
	Wick	1027·8	33	N	5	o m q r s	1026·7	-1	34	-6	NW	2	-	o	3	0·3	35	31	o m q p h	o m q r s	o p s m g	*
	Nairn	1029·7	34	NW	3	c u q	1028·3	*	32	-4	NW	1	-	ou	1	1	37	30	p h y q	cq gw	spw. o	0·0
	Aberdeen ...	1027·0	33	NNW	4	c	1025·8	0	33	-3	NW	4	-	o	4	1	36	32	bc s p q	bc. s p q	bc s p q	0·7
	Leith	1028·7	36	NNW	3	bc	1026·9	0	34	-4	NNW	3	N	b	3	-	39	33	c. bc. c	bc. b. bc	bc. c. o b	*
	Tynemouth ...	1024·7	33	NNW	4	bc p s q	1023·5	0	32	-4	NW	3	-	q s	5	2	37	31	bc m	bc p s q	om p. sq	*
	Spurn Head ...	1020·9	34	N	7	c q p s	1019·9	-1	35	-2	N	7	-	c q p s x	6	1	37	31	c q p s	c q p s	c q p s	1·2
	Yarmouth (Gorleston)	1017·5	34	NNE	7	c	1016·7	-1	34	-2	NWE	6	-	c q h m s	6	3	36	30	bc q p s	cq p h s	c q h m s	0·5
	Clacton-on-Sea	1019·9	33	NNW	4	s	1018·3	0	30	-5	NW	4	N	c	3	1	37	29	bc	bc. o p s	bc. q p s	1·6
	Nottingham ...	1024·8	35	N	4	b	1022·7	*	33	-4	NNW	4	N	b	*	-	39	32	bc m	bc m	bc	3·3
	Benson (Oxon.) ...	1023·9	34	NNW	4	b	1023·6	0	31	-7	N	4	-	o	*	-	40	30	c. b	c	b	P
	Sth Farnborough	1023·3	33	WNW	3	b	1021·7	-1	31	-9	?	?	N	c	*	-	40	31	o. b. c	bc. b z b	b. bc. o c	2·7
	Salisbury Plain						1023·7	-1	28		NNW	5	-	b q x	*	-	44	28			c q x	*
	London (Kew Obsy.)	1022·8	36	NNW	3	b	1021·2	0	32	-8	NNW	3	-	c	*	Trace	40	32	o. c	o	b. o. bc	3·8
Northern Europe.	Spitsbergen ...	1011·2	1	NE	5	c	1006·7	-2	0	-3	-	0	*	s	*	*	2	-2				
	Vardö	1015·1	16	SW	2	b	1017·5	0	12	-2	SW	4	-	b	4	*	16	12				
	Bodö	1013·2	23	E	2	c	1018·2	+1	19	-2	E	2	-	b	2	-	23	14				
	Christiansund ...	1016·8	27	-	0	b	1021·1	0	27	-1	-	0	-	c	5	4	30	25				
	Skudesnaes ...	1015·4	27	N	4	b	1017·8	+1	25	-7	N	3	-	b	2	*	32	25				
	Færder (Christiania Fjord)	1007·9	32	N	7	b	1011·6	+3	30	-4	NNE	8	-	o	2	-	34	28				
	The Scaw (Skagen)	1006·4	34	NNE	6	s	1008·4	+1	28	-8	NNE	6	-	o	6	-	36	27				
	Blaavands Huk	1007·9	32	NNE	2	c	1010·3	0	30	-7	NNE	4	-	c	*	-	40	27				
	Copenhagen ...	1003·6	28	N	5	o	1005·5	+2	25	-5	NNE	5	-	o	*	-	32	23				
	Bornholm ...	999·2	25	N	7	o	1002·8	+2	25	-5	NNE	3	-	o	1	Trace	36	21				
France, &c.	The Helder ...	1012·3	37	N	7	c	1012·4	0	30	-7	E	1	-	o	1	Trace	43	28				
	C. Gris Nez ...	1018·6	36	NNW	6	bc	1016·8	+2	32	-7	N	6	*	bc	6	-	41	28				
	La Hève	1019·8	37	NE	4	bc	1017·5	*	?		NNE	6	*	c	6	-	41	?				
	Brest (St. Mathieu)	1027·4	46	N	5	o	1022·0	-1	43	-2	NNE	3	*	o	-	-	50	41				
	Rochefort (Ile d'Aix)	1021·9	41	NW	4	o	1021·0	+1	34	-5	N	6	*	c	*	4	43	34				
	Biarritz	1023·5	45	W	3	r	1019·5	+1	37	+5	N	5	*	b	2	5	45	37				
	Paris	1017·9	36	NNW	3	c	1015·1	-1	30	-9	NNW	3		o	*	Trace	41	30				
	Belfort	1014·7	25	W	3	o	1010·4	*	23		W	4	*	c	*	?	31	21				
	Lyons	1016·0	32	NW	2	s	1012·2	*	27	+2	N	2	*	s	*	10	33	27				
	Nice	1002·0	39	-	0	b	1000·4	+3	32	-4	-	0	*	bc	2	-	45	28				
	Perpignan ..	1016·8	46	NW	6	o	1011·9	+2	37	0	NNW	4	NW	o	*	-	46	32				
	Sanguinaire ...							*					*									
Southern Stations.	Corunna	1028·4	50	NNE	6	b	1026·0	-1	48	+3	NE	3	-	o	2	*	52	45				
	Madrid	1024·0	39	-	0	b	1019·5	-2	28	0	-	0	N	c	*	-	39	28				
	Lisbon	1020·8	50	NNE	3	b	1020·0	-1	39		N	2	-	b	2	-	52	39				
	Azores (Horta) ...	1027·0	*	ENE	4	c	1026·0	+1	57	+2	ENE	5	*	c	3	-	59	57				
	Madeira	1017·4	61	NW	3	bc	1018·6	+1	55	+1	N	3	N	bc	3	-	64	54				
	Gibraltar	1019·3	52	E	3	o	1015·9	*	49	-5	NW	3	*	b	2	-	56	47				
	Malta	*	*	*	*	*	1005·9	-1	54	0	W	3	-	c	2	2	59	52				
	Limassol	*	*	*	*	*	1012·6	+2	52	0	-	0	-	bc	0	Trace	63	46				
	Alexandria ...	1015·5	51	W	5	c	1016·2	+1	52	0	SW	3	W	b	3	12	63	48				
	Cairo (Helwan) ...	1016·8	54	-	0	b	1018·0	+3	50	+4	SE	2	-	b	*	-	69	46				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON — 26th Dec. — 9h. G.M.T.

	Humidity. 15 h. 25th	Humidity. 9 h. 26th	Sunshine for 25th	24 hours ended 9 h. 26th: Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	62	100	3·1	38	30	26	0·0	bc	bc. c	c
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	69	80	3·4	40	32	27	0·6	b	b	b s
CAMDEN SQ. (British Rainfall) ..			3·4	40	30	27	-			*
S. KENSINGTON (Museum Grounds)	*	79	3·0	40	31	*	-	bc	bc	o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 25th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts	Milliwatts
180	6·3	15

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,489 THURSDAY, 27TH DECEMBER 1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

The weather was generally cloudy to dull except in the south-east, where there was a fair amount of sunshine (5·8 hours at Hastings). Snow showers fell in the eastern and south-eastern districts and there was some rain or drizzle in South-West England.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 26TH DECEMBER.

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 26TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	–	–	42	33	or.c.	c.	0·0
	Montrose							
	St. Andrews	*	*	36	31	c	c.	0·0
Eng. N.E.	Harrogate	–	–	34	30	c.	c.	0·4
	Skegness	–	6	37	29	os	o	0·7
England, E.	Felixstowe	7	1	33	27	bc.s.	bc.	2·5
	Southend-on-Sea	Trace	Trace	40	30	bc.c.os.	o.c.bc.	1·9
England, S.E.	Margate							
	Hastings	–	–	36	30	b.	by	5·8
	Eastbourne	–	–	36	30	bc.b.	b.	4·0
	Seaford	*	*					
	Worthing	–	–	40	31	b.	os	2·9
	Littlehampton							
	Bournemouth	–	–	36	30	c.	c.	1·1
Scotland, W.	Oban	–	–	38	33	o	o	0·0
Eng. N.W.	Morecambe					*	*	
	Southport							
Midlands.	Malvern	–	–	39	32	c.bc.b.	bc.	3·6
	Ross-on-Wye							
Wales.	Rhyl	–	–	38	35	bc.	bc.c.	1·6
	Colwyn Bay							
	Llandudno	*	*					
	Aberystwyth	*	*	39	34	o.c.b.	c.o	2·0
Eng. and S.W.	Weymouth	*	*					
	Torquay							
	Paignton	*	*					
	Penzance							
	Newquay	–	–	41	39	c	c	0·3
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 26TH DECEMBER.

	STATIONS.	Evening of 25TH: Barom. Millibars at M.S.L.	Evening of 25TH: Temp.	Evening of 25TH: Wind Direc.	Evening of 25TH: Wind Force 0–12.	Evening of 25TH: Weather.	Morning of 26TH: Barometer. Millibars at M.S.L.	Morning of 26TH: Barometer. Change in 3 hours.	Morning of 26TH: Temp. Dry Bulb.	Morning of 26TH: Temp. Change in 24 hours.	Morning of 26TH: Wind. Direc.	Morning of 26TH: Wind. Force 0–12.	Morning of 26TH: Weather.	Morning of 26TH: Rainfall. Millimetres.	Morning of 26TH: Temp. Max.	Morning of 26TH: Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1020·7	14	S	3	o									*	
	Hangö														*	
	Yuriev															
	Petrograd	1015·6	14	SE	4	o	1018·2	+1	14	−4	E	3	s	1	18	10
	Vijni Volotchok						1020·7	−1	23	+13	S	3	S	1		9
	Gorki							*							*	
	Moscow	1025·0	19	SE	1	o	1027·1	+3	12	−11	SE	6	o	–	*	o
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1004·9	30	WSW	1	o	998·5	*	36	+4	NE	2	o	–	36	30
	Turin	1007·4	32	S	3	b.	1003·0	*	32	o	–	o	b.	–	36	30
	Pesaro	1002·7	39	SW	1	o	996·2	*	37	+1	N	5	S	11	45	32
	Leghorn	1005·0	41	NE	1	o	994·6	*	35	−1	–	o	c.	7	43	34
	Rome	1003·3	?	NE	1	c.	988·5	*	34	+3	NW	2	S	9	45	31
	Viesti	1003·0?	46	–	o	c.	989·1	*	46	+3	SSE	1	o	1	50	46
	Brindisi	1010·1	50	NNE	1	b.	994·4	*	63	+18	SSE	3	bc	5	63	45
	Cagliari							*								
	Palermo	1011·3	48	SW	1	o	999·7	*	52	+2	W	5	o	3	59	46
	Tripoli							*								
	Algiers	1019·2	48	–	o	bc.	1009·5		48	−4	WSW	4	o	–	54	46
Sweden.	Hernösand						1019·8	*	16		NNE	2	o	*	*	*
	Stockholm						1009·5	*	28		ESE	4	S	*	*	*
	Wisby						1005·1	*	28		SW	6	o	*	*	*

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1017·0	32	+14	W	9	b.
Reykjavik	1024·7	34	+2	W	4	bc
Vestmanna	1024·7	39	+3	NE	5	c
Seydisfjord	1011·6	39	+23	W	9	b
Thorshavn	1018·1	38	+12	W	2	m

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

27TH AND 28TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.54	3.43
	8.6	11.55	3.44
Greenwich	8.8	12.1	3.55
	8.8	12.2	3.56
Wick	9.5	12.13	3.21
	9.5	12.14	3.22
Valencia	8.51	12.42	4.34
	8.51	12.43	4.35

Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF THURSDAY, 27TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit.
Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
○ clear sky. ◐ sky ½ clouded. ◍ sky ½ clouded.
◍ sky ¾ clouded. ◍ overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ϒ thunder.
ϒR, thunderstorm.

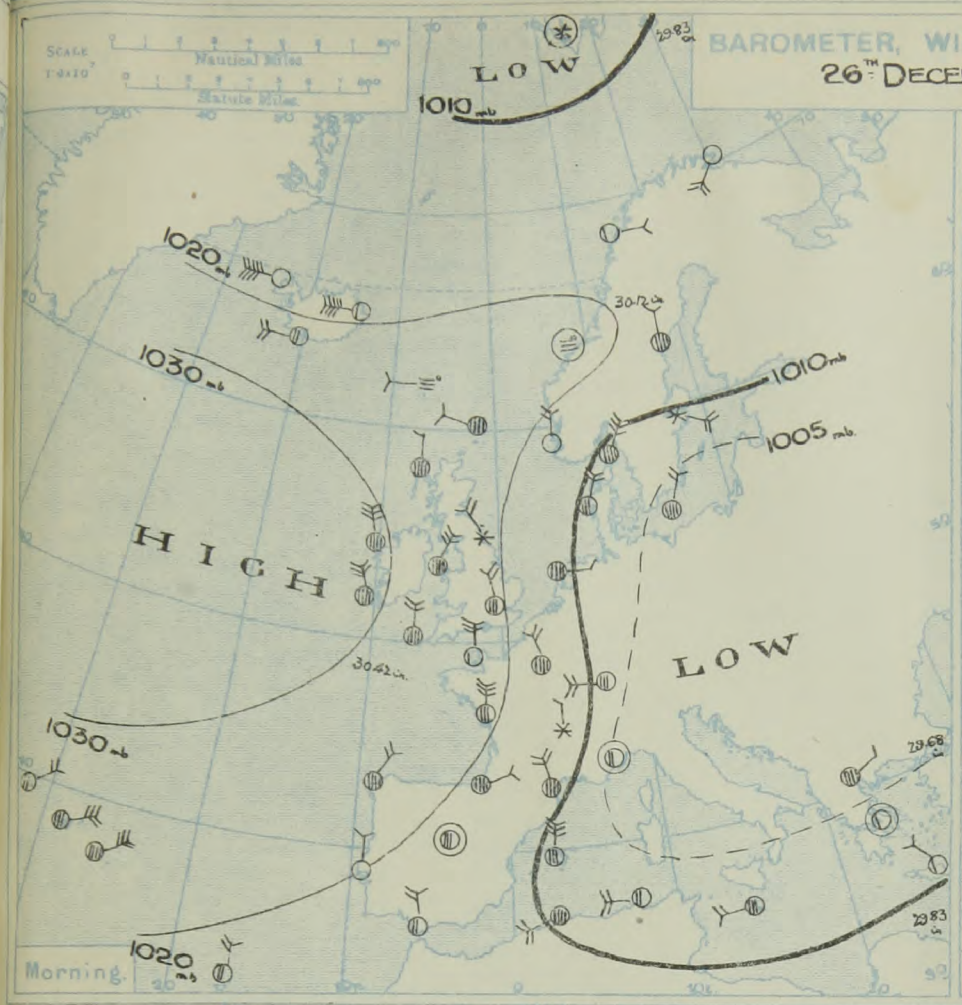
SEA DISTURBANCE.—Rough ~~~ High ≈≈≈

LOW
990 mb
995 mb
1000 mb
1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
1030 mb
29·24 in.
29·37 in.
29·53 in.
29·68 in.
29·83 in.
29·97 in.
30·12 in.
30·27 in.
30·42 in.
32°
40°
20°
50°
Barometer rising slowly
Bar steady
H I G H
H
LOW
995 mb

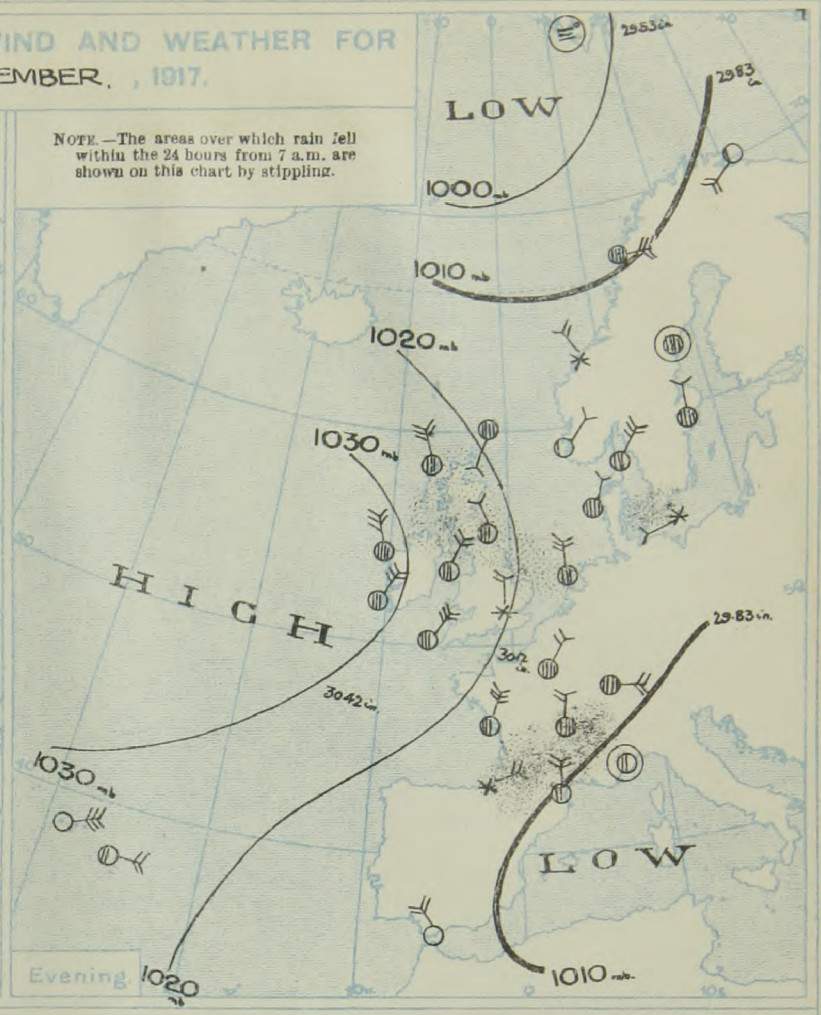
Scale 1 : 2 × 10⁶
Nautical Miles
Statute Miles

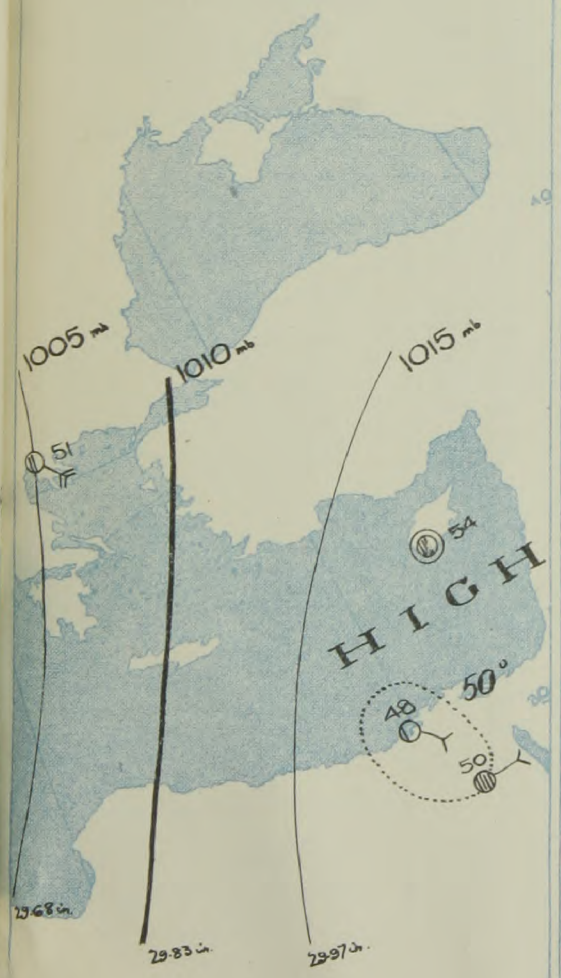
Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

BAROMETER, WIND AND WEATHER FOR 26TH DECEMBER, 1917.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.





The Present Situation

The British Isles remain under the influence of an anticyclone centred off the west of Ireland. There are depressions off the north-west Norwegian coast and in the Mediterranean, neither of which is likely to affect this country. There are also indications of a very shallow secondary depression off South-West England.

The General Outlook

The anticyclone off the west of Ireland is likely to maintain its position, giving light to moderate Northerly winds and fair to cloudy weather, with local snow showers, over the British Isles.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 361

Thursday 27th DEC.

	STATIONS.	EVENING OF 26th					MORNING OF 27th									24 HOURS ENDED 7 A.M. 27th						Sunshine for 26th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1019·7	38	SSW	2	om	1024·9	+2	38	+5	N	3	-	bc	3	2	41	30	om	om	omd.bc	*
	Deerness (Orkney)	1020·6	37	SW	3	oe	1027·1	*	38	+4	N	3	-	c	3	1	38	35	o	oe	o.c.bc.b	0·0
	Stornoway ...	1023·9	46	NNW	5	ep	1029·5	+3	41	+7	NNW	2	-	bc	2	2	46	34	o	or cp	c.op.bc	0·0
	Castlebay (Barra Isd.)	1026·3	47	WNW	3	or	1030·5	+3	45	+6	NNE	3	-	o	3	0·2	47	39	op	or	ro.c.o.	0·0
	Glasgow ...	1026·0	36	W	1	om	1027·8	+4	30	0	-	0	-	fe	*	0·1	38	24	b.bc.c.	c.om	o.p.fe	0·2
	Eskdalemuir ...	1026·2	33	ESE	1	o	1026·5	+3	36	+8	N	3	-	b	*	-	36	25	bc.bc.o	c.o	o.c.bc.b	0·3
	Malin Head ...	1028·7	43	NNW	4	omq/p	1028·5	-	42	0	NNW	5	N	cmq	4	2	46	41	cg	omq/p	cmq	0·0
	Blacksod Point	1030·2	46	NNW	5	og	1031·1	0	45	0	N	4	N	cmq	5	2	47	44	og	og/p	cmp	*
	Valencia (Cahirciveen)	1032·5	47	NNE	5	c	1030·9	0	49	+1	NNE	6	N	c	-	1	49	46	o c.	c	c.cp	1·3
	Roche's Point	1029·9	45	N	4	c	1028·6	*	45	+1	NNW	4	N	c	3	0·1	48	43	c.cpq	bc/pq	c	*
	Birr Castle ...	1030·1	43	NW	1	o	1029·4	*	43	-3	NNW	1	-	o	*	1	46	40	ad/p	ap	ad	0·0
	Donaghadee ...	1026·6	44	N	4	omfpd	1026·4	+2	45	+5	N	4	N	cmq	4	3	46	39	omfpd	ogfpd.m	omfom	*
	Liverpool (Bidston)	1026·4	35	NNW	3	b	1026·1	+2	36	+2	W	1	W	o	1	-	37	33	c.o.	o.bc.	b	1·1
	Holyhead ...	1026·7	40	NE	4	c	1025·4	+2	39	0	E	2	-	oem	-	3	41	38	oc.v.o.c	c.o.bc.c.	o.c.o.m	0·0
	Pembroke (St. Ann's)	1027·6	37	NE	2	bc	1025·6	+1	40	+3	SE	1	-	or	-	1	40	36	o.c.bc	c.bc	bc.co	0·6
	Hartland Quay	1025·4	40	N	6	b	1025·8	-1	37	-3	ESE	2	-	od	2	-	40	37	oq.bc	bc.b	b.o.b.od	*
	Scilly (St. Mary's)	1025·8	43	NE	5	cp	1026·4	-1	44	0	NE	2	-	omd	-	4	46	40	omd.o	m/ec/p	cp.omd	0·0
	Falmouth ...	1025·6	36	NNE	2	bq	1025·1	-2	37	-2	NE	3	-	o	*	-	39	33	o	o b. bcq.	b.bc.o	0·2
	Jersey (St. Aubin)	1021·0	39	N	4	bc	1022·3	*	39	+1	N	3	-	o	3	-	40	38	bc	c.o bc.	b. o	0·8
	Portland Bill ...	1022·3	34	N	4	bc	1023·4	0	34	0	N	4	N	bc	3	-	37	31	bc.c.	bc	bc	*
	Dungeness ...	1018·0	32	NNE	4	b	1019·6	0	30	0	N	4	-	b	3	-	35	28	bc.	bc	bc.bx	*
	Dover	*	*	*	*	*																
	Wick	1021·9	36	WSW	2	od.m	1027·6	+5	38	+4	NNW	2	-	c	2	2	42	32	omq/q	oq3op.	opd.om	*
	Nairn	1024·1	35	NW	1	ogu	1028·0	*	40	+8	-	0	-	og	1	1	41	30	cg	ogd.	o/p	0·0
	Aberdeen ...	1023·6	35	WNW	1	o	1026·0	+4	39	+6	NW	3	-	o	3	2	39	32	osp	osp	or.o.	0·0
	Leith	1025·2	36	SW	1	o	1026·4	+1	38	+4	NW	1	-	o	1	0·2	39	34	b.bc.c.o.	o	om.op.o	*
	Tynemouth ...	1023·8	34	NNW	2	cpq/s	1024·6	+3	35	+3	W	2	-	om	4	3	35	32	cq/ps	cq/ps	om	*
	Spurn Head ...	1023·1	35	N	5	cq/ps	1023·8	0	36	+1	NNW	4	-	cq/ps	5	4	38	32	cq/ps	cq/ps	cq/ps	0·0
	Yarmouth (Gorleston)	1017·9	35	NE	6	bc	1021·1	+1	36	+2	NE	6	-	bcq	5	5	37	32	cq/p.hs	bcq	cq/bcq	2·3
	Clacton-on-Sea	1019·5	32	NW	3	bc	1021·8	+1	30	0	NW	3	W	bc	2	2	34	28	cp.s. bc	bc.c	bc	2·1
	Nottingham ...	1023·1	45	N	4	c	1024·7	*	36	+3	N	2	N	q/p.s	*	0·1	36	32	bc.c	cp.o	cp.o	0·1
	Benson (Oxon.) ...	1022·0	33	NNW	3	c	1024·2	+1	30	-1	N	1	N	c	*	0·1	35	29	bc	o	c	*
	Sth Farnborough	1021·5	34	N	3	o	1023·1	+1	30	-1	NW	2	-	bm	*	Trace	37	30	c.oq	osp.o	o.bm	1·8
	Salisbury Plain														*							*
	London (Kew Obsy.)	1021·2	35	N	3	o	1023·2	+1	32	0	NNE	1	-	bm	*	Trace	35	32	c.o.	o.os.	os.bc.obc.bm.	1·8
NORTHERN EUROPE.	Spitsbergen ...	999·8	0	-	0	m	991·5	-3	10	+10	E	4	*	b	*	*	0	-9				
	Vardö	1015·5	14	SW	4	c	1004·4	-3	19	+7	S	8	-	bc	4	*	14	10				
	Bodö	1008·8	28	E	5	o	1004·7	0	32	+11	SW	5	-	c	3	-	28	14				
	Christiansund ...	1017·2	30	NW	3	s	1017·6	+3	39	+12	WSW	4	-	c	5	2	39	26				
	Skudesnaes ..	1020·7	28	NE	2	b	1022·0	+1	32	+7	E	4	-	o	2	-	28	25				
	Færder (Christiania Fjord)	1020·2	28	NNE	4	o	1021·4	-1	36	+6	WSW	2	-	c	1	-	30	27				
	The Scaw (Skagen)	1016·0	30	NE	5	c	1021·8	+3	30	+2	-	0	-	o	-	-	32	25				
	Blaavands Huk	1015·9	28	NNE	2	o	1027·5	+3	23	-7	ENE	2	-	b	*	-	32	31				
	Copenhagen ...	1012·3	30	NE	4	o	1019·9	+3	30	+5	NE	2	-	o	*	-	30	25				
	Bornholm ...	1010·8	25	WSW	2	s	1017·8	+1	32	+7	NE	5	-	o	1	1	30	23				
FRANCE, &c.	The Helder ...	1015·9	32	N	5	c	1019·9	+1	30	0	NE	3	-	o	2	4	34	30				
	C. Gris Nez ...	1017·4	32	NE	4	s	1019·6	+1	32	0	S	2	*	o	4	4	36	27				
	La Hève	1017·8	32	NNE	3	s	1019·0	*	36		N	4	*	c	-	-	37	32				
	Brest (St. Mathieu)	1024·2	40	NE	2	c	1025·0	0	37	-6	N	3	*	c	1	-	43	34				
	Rochefort (Ile d'Aix)	1018·2	36	NNE	6	c	1020·2	+1	30	-4	NE	5	*	b	*	-	43	28				
	Biarritz	1017·4	35	ENE	3	s	1018·8	+2	28	-9	NE	1	*	c	4	3	39	28				
	Paris	1015·9	28	NNE	3	b	1017·6	-2	27	-3	NNW	1	-	o	*	Trace	34	21				
	Belfort	1012·6	20	E	4	o	1017·1	*	14	-9	-	0	*	c	*	-	30	9				
	Lyons	1010·4	25	N	3	o	1014·3	*	18	-9	NW	6	*	b	*	1	33	17				
	Nice	999·1	28	-	0	bc	1002·4	+3	30	-2	-	0	*	b	2	-	39	25				
	Perpignan ..	1009·1	34	N	4	bc	1009·1	+1	28	-9	NW	4	-	b	*	1	46	41				
	Sanguinaire ...	995·8	37	NW	3	c	995·9	*	36		E	2	*	o	5	1	43	34				
SOUTHERN STATIONS.	Corunna														*							
	Madrid																					
	Lisbon																					
	Azores (Horta) ...	1028·0	*	E	5	c	1027·1	-1	55	-2	NNE	4	*	bc	2	-	61	55				
	Madeira	1018·3	61	N	3	bc	1020·2	0	54	-1	NE	3	N	bc	3	-	64	52				
	Gibraltar	1011·8	49	NW	4	b	1011·5	*	45	-4	WSW	4	*	b	2	-	59	43				
	Malta	*	*	*	*	*	995·9	-1	55	+1	S	3	-	T	1	2	57	52				
	Limassol	*	*	*	*	*	1018·4	+2	54	+2	-	0	-	c	-	20	63	48				
	Alexandria ...	1017·4	55	SW	2	b	1018·4	0	48	-4	SE	2	-	b	1	-	63	48				
	Cairo (Helwan) ...	1018·2	55	SSE	1	b	1019·2	42	50	0	E	2	-	o	*	-	64	48				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 27th Dec. ....9h. G.M.T.	Humidity. 15 h. 26th	Humidity. 9 h. 27th	Sunshine for 26th	24 Hours ended 9 h. 27th. Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	80	95	0·8	35	32	29	0·0	c	o.os	os.ems.o
CITY (Bunhill Row)	*	*	0·3	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	1·3	36	22	28	0·0	b.	b	bsobo
CAMDEN SQ. (British Rainfall) ..	-	94	1·5	36	30	27	Trace	-	-	*
S. KENSINGTON (Museum Grounds)	*	90	1·8	36	32	-	-	o	o.os	bcx

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 26th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,490. FRIDAY, 28TH DECEMBER .1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

As has been the case for the past few days weather remained cloudy to dull in the Northern and Western districts and little sunshine was recorded. 11 mm. of rain were measured at Malin Head, and there were snow showers at Dungeness and Spurn Head. Good sunshine records were obtained at some South and East coast stations; 6·7 hours at Bournemouth and 5·9 hours at Weymouth being the highest readings.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 27TH DECEMBER

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 27TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	43	34	c.bc	bc	0·0
	Montrose	-	-	47	?	0	0	0·0
	St. Andrews							
Eng. N.E.	Harrogate	Trace	Trace	38	31	cm	cm	0·0
	Skegness	Trace	2	38	30	bc	bc	4·9
England, E.	Felixstowe	Trace	-	35	27	bc	bc.c	0·2
	Southend-on-Sea	-	-	35	29	b.bc.c.0	0	0·3
England, S.E.	Margate	1	1	39	32	o.hq	o.hq	0·2
	Hastings	-	-	37	30	b.bc.0	0	2·8
	Eastbourne	Trace	-	39	29	bc.b	b.bc	4·5
	Seaford	*	*	37	30	bc	b	5·4
	Worthing	-	-	37	31	b	bc	4·2
	Littlehampton			44	34			4·5
	Bournemouth	-	-	40	29	b	b	6·7
Scotland W.	Oban	1	-	45	34	c	bc	1·8
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	39	32	c.bc.0	0	1·2
Midlands.	Malvern							
	Ross-on-Wye	-	-	37	25	cmx	bc.c	0·0
Wales.	Rhyl	Trace	-	41	33	bc.0	0	0·0
	Colwyn Bay	Trace	Trace	41	36	bc	cc	0·0
	Llandudno	*	*	42	35	od	oe	0·0
	Aberystwyth	*	*	41	33	d.c.b	c.0	2·0
England, S.W.	Weymouth	*	*	41	29	bc.b	b7	5·9
	Torquay	-	-	42	30	b.bc.c	b.bc.c.b	4·0
	Paignton	*	*					
	Penzance	1	-	44	38	bc	bc	4·0
	Newquay	-	-	42	35	b	b	5·5
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 27TH DECEMBER

	STATIONS.	Evening of 26TH: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 27TH: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö						1020·2	+2	25		-	0	0	*	*	18
	Yuriev															
	Petrograd	1022·8	23	S	3	0	1025·4	+1	23	+9	S	3	S	3	*	14
	Vijni Volotchok						1031·4	+2	18	-5	S	2	0	-	*	17
	Gorki						1026·6	*	25		SE	1	0	-	*	24
	Moscow						1033·2	+1	7	-5	ESE	4	S	-	*	7
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	998·9	36	-	0	bc	1009·7	*	32	-4	NE	1	bc	-	37	32
	Turin	1001·8	34	-	0	c	1006·2	*	28	-4	-	0	c	-	37	25
	Pesaro	998·7	36	NNE	6	0	1001·9	*	37	0	NNE	1	0	5	38	?
	Leghorn	997·8	36	-	0	b	999·9	*	32	-3	-	0	c	7	?	28
	Rome	996·3	34	N	2	0	995·9	*	32	-2	NE	2	0	12	37	30
	Viesti							*								
	Brindisi	998·3	54	S	2	c	996·3	*	48	-15	SE	3	0	1	54	42
	Cagliari							*								
	Palermo	999·5	45	-	0	0	996·7	*	39	-13	W	1	r	23	52	37
	Tripoli	1007·9	52	SE	1	b	1003·5	*	29		-	0	r	-	59	
	Algiers	1005·1	46	NNE	4	r	1006·6	0	23	-	NNW	5	0	45	50	?
Sweden.	Hernösand	1019·9	30	-	0	0	1016·0	*	18	+2	-	0	c	*	*	*
	Stockholm	1016·4	25	N	2	0	1021·6	*	23	-5	SW	3	0	*	*	*
	Wisby	1014·7	28	SW	8	0	1021·4	*	27	-1	ESE	2	0	*	*	*

Morning of 27TH:

ICELAND.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1014·0	41	+9	SW	2	0
Reykjavik	1020·4	39	+5	SW	1	r
Vestmanna	1025·0	43	+4	W	4	r
Seydisfjord	1017·9	32	-7	-	0	b
Thorshavn	1021·1	39	+1	W	1	0

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

28TH and 29TH DEC. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6 / 8·6	11·55 / 11·55	3·44 / 3·45
Greenwich	8·8 / 8·8	12·2 / 12·2	3·56 / 3·57
Wick	9·5 / 9·5	12·14 / 12·14	3·22 / 3·23
Valencia	8·51 / 8·51	12·43 / 12·43	4·35 / 4·36

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By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF FRIDAY, 28TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ¼ clouded. ◑ sky ½ clouded.
◑ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤ thunder.
⊤✳, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ≈≈≈.

LOW

1015 mb

1020 mb

1025 mb

1030 mb

Barometer steady in most places

HIGH

Barometer rising slowly

LOW

1005 mb

1010 mb

1015 mb

1020 mb

1025 mb

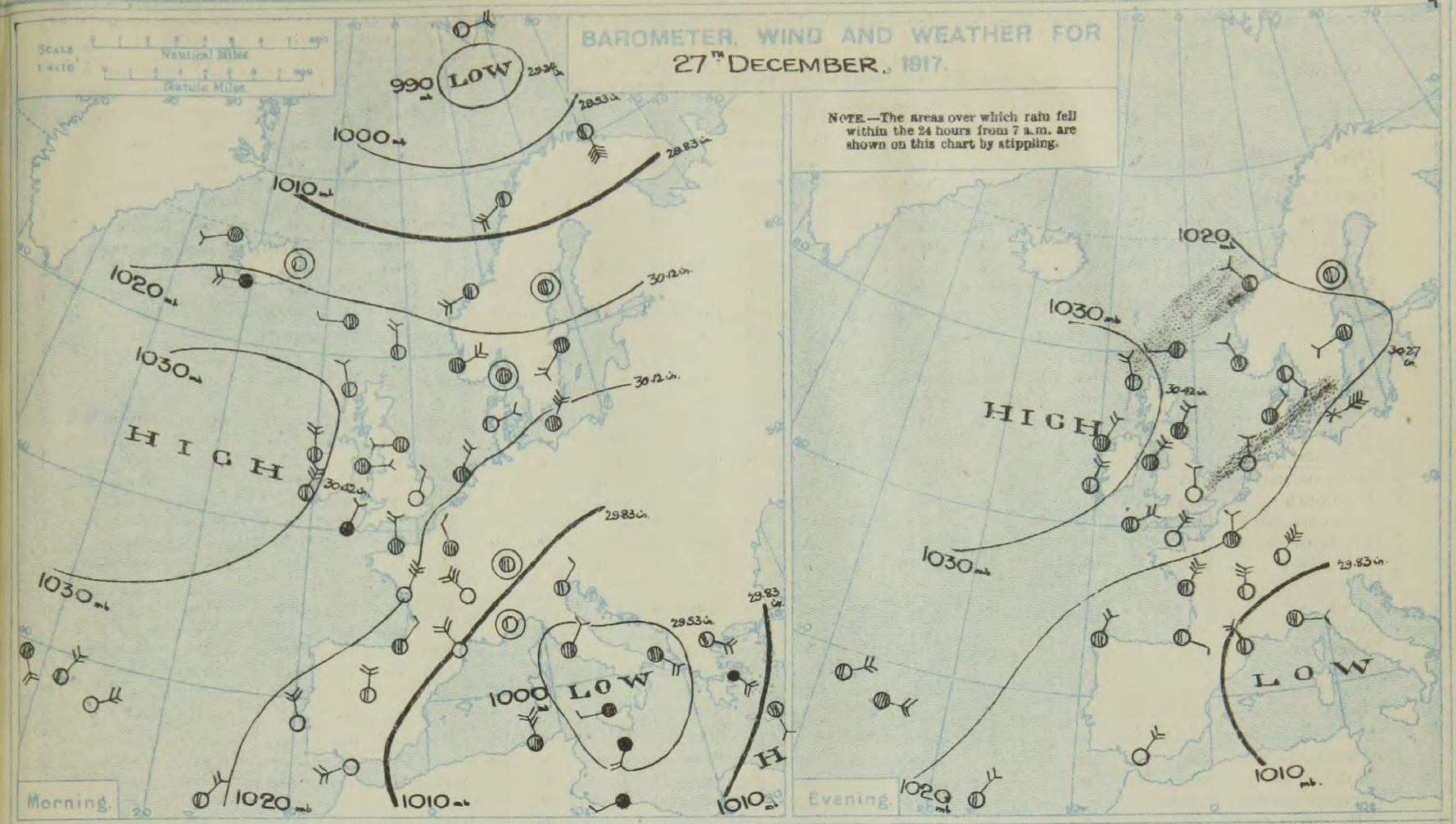
1030 mb

SCALE 1 : 2 x 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

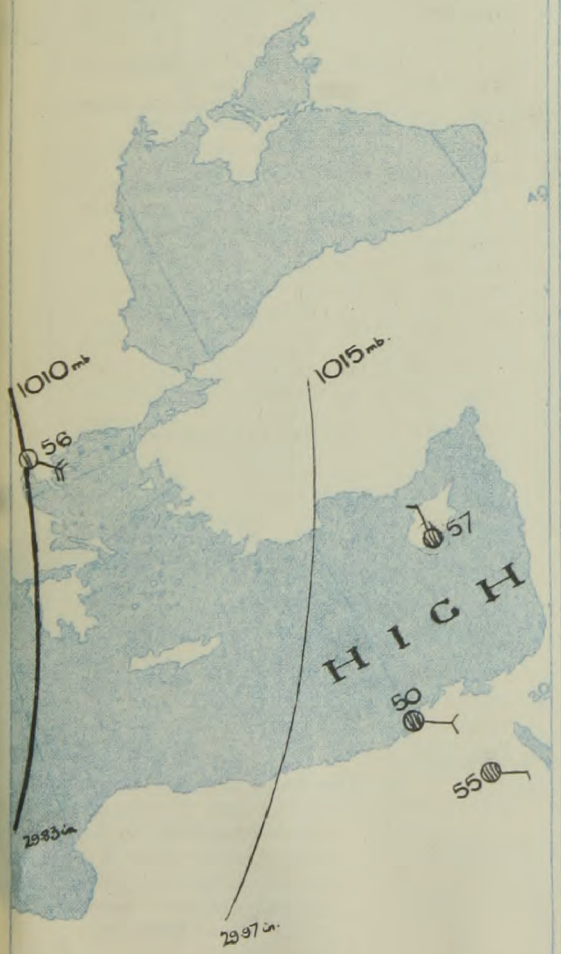
Normal Temperature of the Sea.

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.



NOTE.—The areas over which rain fell within the 24 hours from 7 a.m. are shown on this chart by stippling.



The Present Situation

The British Isles continues to be under the influence of an anticyclone centred off the West of Ireland, which has now spread eastward over the North Sea. Barometric changes are slight and no important change of distribution is anticipated at present.

The General Outlook

The anticyclone will probably continue to spread eastward, and no material departure from the present type of weather is likely to occur in the immediate future.

R. C. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 282

Friday, 28th DEC.

	STATIONS.	EVENING OF 27th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 28th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 28th: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 27th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1026·7	39	W	1	cm	1026·9	0	44	+6	W	1	-	om	1	1	44	36	bc. o	o.c.	om	*
	Deerness (Orkney)	1028·8	38	W	2	o	1029·4	*	43	+5	WNW	3	-	oe	2	-	44	38	b bc	bc.o.	oe	1·1
	Stornoway ...	1031·2	43	NW	3	bc	1032·2	+1	45	+4	NNW	5	-	c	4	1	46	37	bc3	bc	odp.c.	1·1
	Castlebay (Barra Isd.)	1032·0	45	-	0	c	1033·3	0	46	+1	NW	3	-	o	3	0·2	46	39	o.c.	c.o	o.dp.o	0·5
	Glasgow ...	1031·1	34	-	0	bm	1032·6	+2	31	-1	SW	1	-	m	*	Trace	38	26	fe	ef. by	bmfx	0·0
	Eskdalemuir ...	1030·3	34	N	3	b	1032·2	0	31	+4	-	0	-	o	*	-	39	23	b.bc.c.o	oy.o.c.	c.bc.c.o	0·0
	Malin Head ...	1031·6	44	NE	4	cg	1032·7	-	45	+3	NNE	2	NE	c/p	3	11	46	42	cg.	cg.	c/p	0·0
	Blacksod Point	1033·6	44	NNE	3	omg	1034·1	0	45	0	N	3	-	omr	3	2	46	42	cy.	cm.	dp.cmp	*
	Valencia (Cahircivsen)	1032·1	45	NNE	4	bc	1033·4	0	40	+9	NE 2	2	NE	bc	3	0·2	49	38	c.dp.c	c.bc.	c.bc.b.	1·7
	Roche's Point	1030·7	42	NNE	3	o	1032·0	*	37	-8	N	3	N	b	2	0·1	47	43	c.bc.b	b.bc c.	c.b	*
	Birr Castle ...	1031·2	42	N	1	o	1032·9	*	30	-13	N	1	-	c	*	-	44	28	o.c.o	o	o.cxc	0·2
	Donaghadee ...	1030·2	42	NW	3	bcm	1031·6	0	38	-7	NE	2	-	bcmw	2	Trace	45	37	cm.	bcm.	bcmw	*
	Liverpool (Bidston)	1028·3	40	NW	1	o	1030·1	0	39	+3	N	2	-	o	1	-	40	35	c	o	bc.o.	0·3
	Holyhead ...	1029·2	44	NE	4	og	1030·8	+1	41	+2	NE	5	-	b	3	Trace	44	38	cg.oge	cg	o.c.bc.b	0·0
	Pembroke (St. Ann's)	1028·2	39	N	1	c	1029·7	+2	37	-3	NNE	2	NE	bc	1	1	43	36	or.b.bc	bc.c	c.bc	3·3
	Hartland Quay						1028·2	0	41	+4	NNE	5	-	bc	3	-	43	37			o	*
	Scilly (St. Mary's)	1027·7	43	ENE	3	c	1028·0	0	43	-1	ENE	3	NE	c	4	3	47	39	omd.c	c	c.c/p	0·7
	Falmouth ...	1027·3	36	NNE	2	bc	1027·1	0	35	-2	NE	2	-	b	*	-	43	35	o.bc.	b	bc.b.ob	3·9
	Jersey (St. Aubin)	1022·8	40	NE	4	b	1023·2	*	41	+2	NE	6	-	o	4	Trace	41	37	o.bc.b	b.bc.b	dp.o.	4·8
	Portland Bill ...	1025·2	38	NNE	3	b	1025·8	0	34	0	NNE	3	-	bm	2	-	39	33	bc. b	b	b.bc	*
	Dungeness ...	1022·2	35	NNE	4	cq	1023·3	0	34	+4	N	3	N	b	3	7	37	29	bc/ps	c/ps	cq/s.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1029·6	36	WNW	2	omg	1030·3	+2	44	+8	WNW	2	-	m	2	0·3	44	36	cmg	c.omg	c.omg	*
	Nairn	1031·1	34	-	0	b	1032·1	*	42	+2	W	1	-	cg	1	1	42	31	cy	c.bc	bc.c/p	1·8
	Aberdeen ...	1029·9	35	NW	4	b	1030·9	0	40	+1	WNW	3	-	od	2	Trace	40	33	ob/bc.o	o.c.b.	b.bc.od	0·2
	Leith	1030·8	36	W	1	b	1031·6	0	37	-1	W	1	-	om	1	-	40	32	om.c.bc	bc.b.bc	bg.bmo.	*
	Tynemouth ...	1027·0	41	NNE	3	om	1029·8	+1	37	-2	NW	2	-	b	3	2	42	31	omp	om	om	*
	Spurn Head ...	1026·7	38	ENE	2	c/p	1027·4	+1	40	+4	NNE	4	-	cv	5	1	41	35	c	c/p.	c/p.o	2·7
	Yarmouth (Gorleston)	1024·5	37	NE	4	bc	1024·9	0	37	+1	ENE	3	-	omr	3	1	38	34	bcq	bcq/p	bcq.oc.	0·0
	Clacton-on-Sea	1024·3	35	NW	3	o	1025·0	0	34	+4	NNW	2	NE	c	2	-	35	29	bc.c.om.	ogm.	bc.c.om	0·0
	Nottingham ...	1027·1	32	N	2	a	1028·1	*	38	+2	NNE	3	NE	c	*	0·2	38	34	om	o.cm.	od	0·0
	Benson (Oxon.) ...	1026·4	32	NE	1	b	1026·5	-1	34	+4	N	2	-	or	*	1	37	29	b	bc	bc.or.o	*
	Sth Farnborough	1025·4	31	N	2	bm	1026·2	-1	33	+3	NNE	2	-	om	*	0·2	37	27	bmc.bcg	bc.bym	bmcsom	4·0
	Salisbury Plain	1027·1	27	N	3	bc	1027·0	0	34		N	4	-	o	*	Trace	31	26	bc.	bc.	omxc	*
	London (Kew Obsy.)	1025·6	34	N	2	bm	1025·8	0	35	+3	N	2	-	o	*	Trace	35	29	bm.o.bmb	b.bm	bmbmcom.	4·0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö	?	30	?	4	c	1013·4	-3	37	+5	SW	4	-	o	2	-	37	25				
	Christiansund ...	1024·3	37	-	0	c	1023·4	-2	41	+9	-	0	-	c	4	2	41	34				
	Skudesnaes .. Færder (X'iania Fjord)																					
	The Scaw (Skagen)	1023·1	32	SE	1	bc	1028·4	+3	32	+2	NE	2	-	b	2	-	34	23				
	Blaavands Huk	1025·4	28	NE	1	o	1029·0	+1	21	+2	ENE	2	-	b	*	Trace	30	19				
	Copenhagen ...	1022·4	30	NNE	3	b	1026·7	+2	28	+2	NE	3	-	b	*	-	32	27				
	Bornholm ...	1017·6	30	ENE	8	s	1023·1	+2	32	0	ENE	8	-	o	3	4	32	28				
FRANCE, &c.	The Helder ...	1024·0	34	N	2	o	1024·8	0	34	+4	NNE	2	-	o	-	1	34	32				
	C. Gris Nez ...												*									
	La Hève	1019·8	32	ENE	2	o	1024·0	*	30	-6	NE	3	*	c	3	-	36	30				
	Brest (St. Mathieu)	1024·8	41	NNE	3	o	1025·2	0	38	+1	NE	3	*	c	1	-	45	37				
	Rochefort (Ile d'Aix)	1018·0	34	NNE	6	c	1017·4	+1	28	-2	NE	6	*	b	*	-	37	?				
	Biarritz	1016·7	32	ESE	1	bc	1016·7	+1	28	0	ENE	1	*	o	3	-	37	28				
	Paris	1020·6	27	NNE	3	o	1019·0	-3	25	-2	NNE	3	-	o	*	-	30	19				
	Belfort	1016·4	15	ENE	7	b	1011·4	*	17	+3	NE	6	*	s	*	1	21	14				
	Lyons	1010·4	19	N	5	b	1011·9	*	19	+1	N	2	*	s	*	-	25	14				
	Nice	1001·9	32	E	2	c	1004·7	+4	27	-3	E	2	*	b	3	-	39	23				
	Perpignan ..	1009·9	28	NW	4	bc	1009·6	+3	25	-3	NNW	3	N	o	*	-	32	25				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1022·7	48	NNE	3	c	1021·6	+1	43		NE	5	-	s	4	Trace	48	43				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1025·8	*	-	0	bc	1021·6	+3	55	0	E	5	*	b	3	-	64	55				
	Madeira	1018·7	57	NE	3	bc	1018·7	0	57	+3	NE	3	-	o	3	-	63	54				
	Gibraltar	1013·2	48	NE	4	b	1012·5	*	40	-5	NW	6	*	b	3	-	55	38				
	Malta	*	*	*	*	*	1006·2	+3	46	-9	SW	1	-	bc	1	6	57	46				
	Limassol	*	*	*	*	*	1019·1	0	57	+3	N	1	-	o	-	3	63	50				
	Alexandria ...	1016·6	55	SE	2	o	1017·6	+1	50	+2	SE	2	NW	o	1	-	64	48				
	Cairo (Helwan) ...	1018·4	57	-	0	c	1018·8	+1	55	+5	SE	1	-	o	*	-	66	48				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

LONDON 28th DEC. 9h. G.M.T.	Humidity. 15 h. 27th	Humidity. 9 h. 28th	Sunshine for 27th	24 Hours ended 9 h. 28th: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	74	93	1·3	37	30	24	0·3	b	b.bc.b	b.bc.o
CITY (Bunhill Row)	*	*	1·6	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	1·5	38	32	27	0·2	bc	bc	md
CAMDEN SQ. (British Rainfall) ..	74	90	2·9	37	30	26	0·3	c.bc.	bc.	*
S. KENSINGTON (Museum Grounds)	*	89	2·5	37	32	-	0·3	b	b	om

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 27th:

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
180	6.4	12

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No.20,491. SATURDAY, 29TH DECEMBER .1917. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

The weather showed little change from the past few days in the Northern districts, but in the South the development of a depression over France caused disturbed conditions in the afternoon and evening. Small amounts of rain and sleet were measured at most Southern stations. Sunshine was generally deficient over the greater part of the British Isles but 5·5 hours were registered at Holyhead.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 28TH DECEMBER

	STATIONS.	Rainfall. Night. 18h-9h.	Rainfall. Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 28th
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	45	33	0.c	0.c	0·0
	Montrose	-	-	45	35	0	0	0·0
	St. Andrews	*	*	44	30	0	0	0·0
Eng. N.E.	Harrogate	1	-	38	33	bc.0	0	0·0
	Skegness	2	Trace	39	30	bc	bc.op	2·0
England, E.	Felixstowe	Trace	2	37	33	c.bcp	bcp	0·9
	Southend-on-Sea	-	-	39	30	b.bc	b.bc.c	3·7
England, S.E.	Margate	3	-	40	33	c	bc.c	2·3
	Hastings	1	2	38	32	os.bc.b	0	2·3
	Eastbourne	-	Trace	42	32	0.c	bc.os	2·5
	Seaford	*	*	38	33	c	bc	3·1
	Worthing	-	-	37	32	b	bc	1·3
	Littlehampton			44	31			2·0
	Bournemouth	Trace	-	39	29	0	0	0·2
Scotland, W.	Oban	-	-	47	33	0	bc.b	3·2
Eng. N.W.	Morecambe					*	*	
	Southport	-	-	41	34	b.bc.c	c.0	0·8
Midlands.	Malvern							
	Ross-on-Wye	-	-	39	34	ow	c.ow.c	0·0
Wales.	Rhyl	-	-	42	38	c	bc.c	1·2
	Colwyn Bay	-	-	42	39	c	c	2·2
	Llandudno	*	*	43	40	bc	c	2·4
	Aberystwyth	*	*	41	34	0.c	c.0	
England, S.W.	Weymouth	*	*	40	30	cg.bc	bc.cg	1·0
	Torquay	-	-	41	37	c.0	0.c.bc	0·5
	Paignton	*	*					
	Penzance	-	-	45	38	0.c	bc.c	1·0
	Newquay	-	-	42	35	c	c	0·1
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 28TH DECEMBER

	STATIONS.	Evening of 27th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0–12.	Weather.	Morning of 28th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel	1021·9	19	S	3	0									*	
	Hangö	1022·0	30	-	0	0									*	
	Yuriev															
	Petrograd	1025·3	25	SSE	3	3	1026·3	+1	27	+4	S	3	S	3	27	21
	Vijni Volotchok	1031·7	18	SE	2	0	1032·0	−1	18	0	SE	1	0	-	*	18
	Gorki	1030·3	21	-	0	0		*							*	
	Moscow	1039·7	7	SE	3	bc	10404	0	5	−2	SW	3	c	1	*	1
	Kiev	1027·9	27	E	3	0	1029·7	0	27		ESE	3	‡	-	*	27
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1001·9	32	ENE	2	0	10054	*	30	−2	NE	2	0	-	36	28
	Turin	1005·1	32	-	0	b	10063	*	28	0	-	0	b	-	34	27
	Pesaro	9998	37	NE	6	0	10058	*	34	−3	WSW	1	0	-	43	32
	Leghorn							*								
	Rome	995·8	37	N	2	0	1002·3	*	36	+4	N	1	0	9	?	31
	Viesti						1004·1	*	41		SE	2	b	5	43	41
	Brindisi						1008·1	*	52	+4	SE	1	0	15	54	50
	Cagliari	997·0	43	NW	4	c	10014	*	39		NNW	3	bc	-	52	34
	Palermo	997·9	34	SSW	1	0	1005·1	*	43	+4	-	0	b	19	41	36
	Tripoli	10066	46	NW	1	bc	1011·7	*	56		SW	1	c	-	61	45
	Algiers	1008·7	37	NNW	6	T	10084	0	34	+11	SW	3	0	14	39	32
Sweden.	Hernösand	1017·9	19	-	0	bc	1026·2	*	9	−9	S	2	bc	*	*	*
	Stockholm	1021·9	18	SW	2	c	1027·9	*	16	−7	W	2	b	*	*	*
	Wisby	1021·5	30	SW	6	bc	1026·8	*	30	+3	W	2	c	*	*	*

Morning of 28th

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1008·3	36	−5	SW	8	c
Reykjavik	1013·9	41	+2	SW	3	0
Vestmanna	1017·6	43	0	W	4	r
Seydisfjord	1007·1	45	+13	SW	4	c
Thorshavn	1019·8	43	+4	W	6	0

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

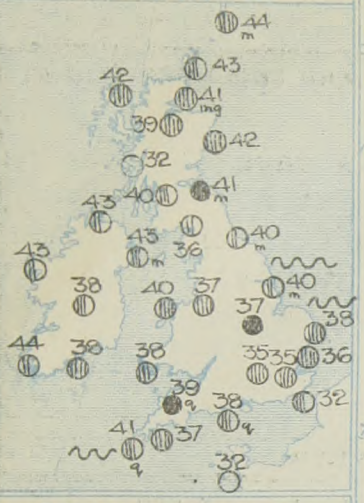
29th and 30th DEC 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6	11·55	3·45
	8·6	11·56	3·46
Greenwich	8·8	12·2	3·57
	8·8	12·3	3·58
Wick	9·5	12·14	3·23
	9·5	12·15	3·24
Valencia	8·51	12·43	4·36
	8·51	12·44	4·37

Printed at the Meteorological Office, South Kensington, London. S.W.7.
By WYMAN & SONS LTD., Fetter Lane, London, E.C., and Reading.

‡ The barometric change is expressed in half-millibars.

THE MORNING OF SATURDAY, 29th DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.



FORECAST DISTRICTS.

EXPLANATION.

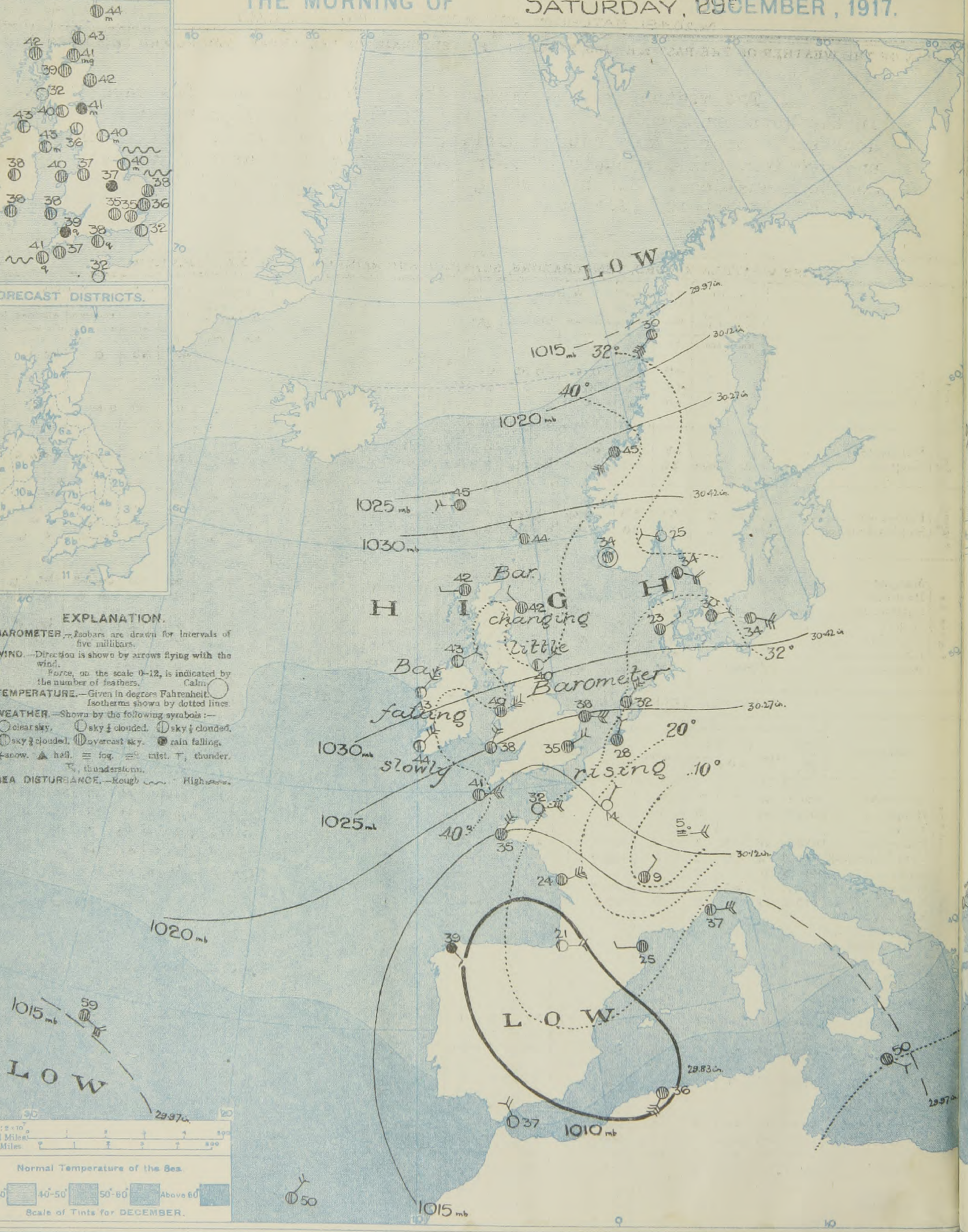
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ○

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

WEATHER.—Shown by the following symbols:—
○ clear sky. ◔ sky ¼ clouded. ◑ sky ½ clouded.
◕ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡ᶜ mist. ϒ, thunder.
ϒₛ, thunderstorm.

SEA DISTURBANCE.—Rough ∽∽ High ≈≈

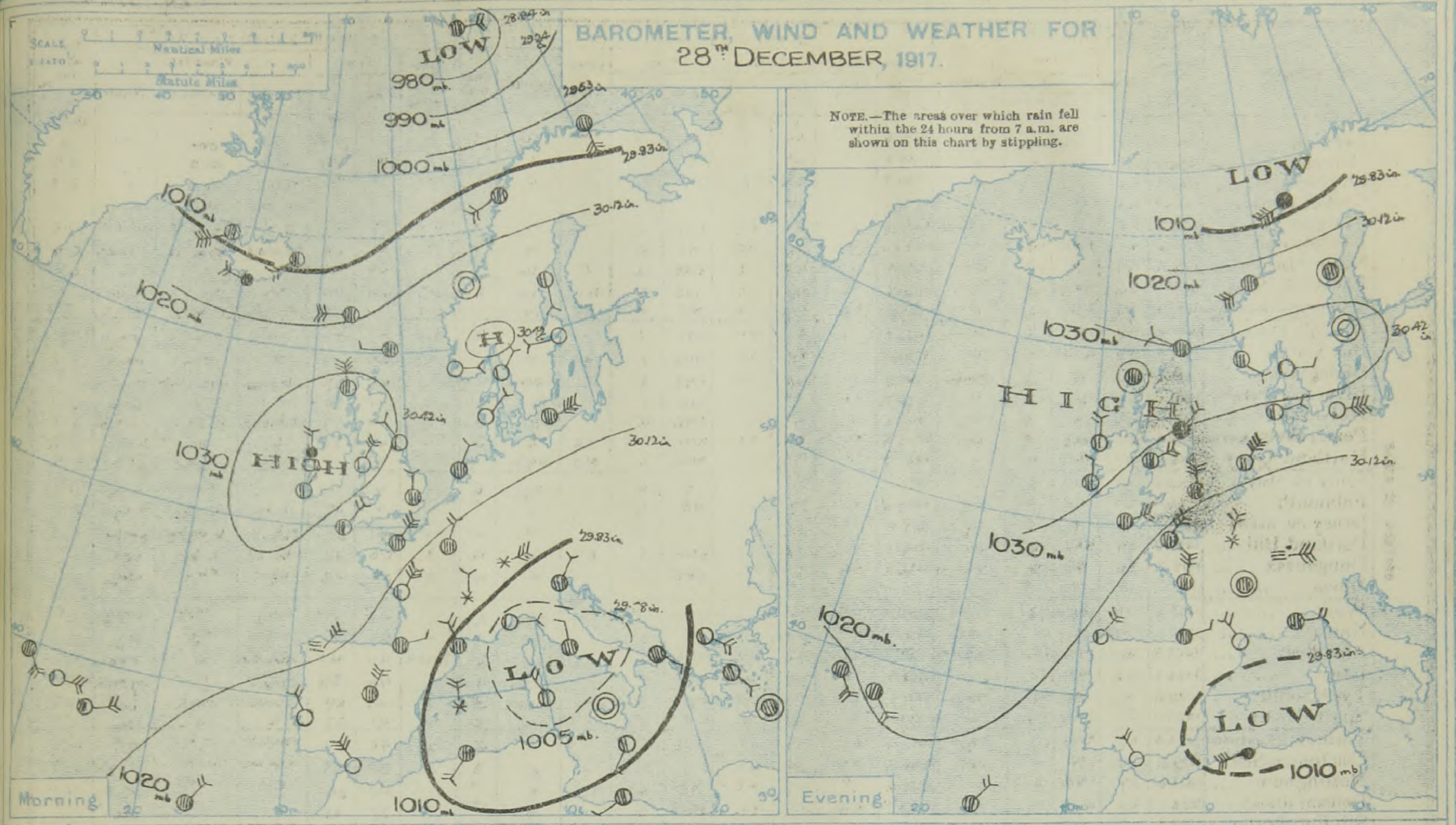


SCALE 1 : 2×10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.



The Present Situation

The anticyclone remains over Scotland and the Northern half of the North Sea. A depression which has moved westward from Central Europe now lies over the Bay of Biscay and is likely to continue a westerly to north-westerly course. Another depression is centred near the North Cape.

The General Outlook

In the absence of further disturbances the distribution should remain of an Easterly type in the South of England, while there is little indication of any change from the present anticyclonic conditions in the Northern districts.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No 363.

Saturday, 29th DEC.

	STATIONS.	EVENING OF 28th					MORNING OF 29th									24 HOURS ENDED 7 A.M. 29th					Sunshine for 28th
		Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
BRITISH ISLANDS.	Lerwick ...	1030·0	44	WNW	2	om	1031·8	+1	44	0	NW	1	-	om	1	1	45	42	om	om	om	*
	Deerness (Orkney)	1032·5	43	W	3	o	1033·8	*	43	0	W	2	-	c	1	1	44	41	od.c	c.o	o.c.	0·0
	Stornoway ...	1034·1	44	-	0	o	1034·7	0	42	-3	W	1	-	o	1	-	46	41	c.bc.	bc.o	o	2·7
	Castlebay (Barra Isd.)	1034·3	45	-	0	o													o.bg.	bg.o.		
	Glasgow ...	1032·8	36	-	0	of	1033·2	+1	40	+9	ENE	2	-	c	*	0·2	41	30	f.cf.	cf.f.of	ofdp.c.	0·0
	Eskdalemuir ...	1030·9	41	NNE	6	o	1032·0	o	36	+5	NE	6	-	bc	*	2	41	29	o.c.omd	omd.o	o.ombc	0·0
	Malin Head ...	1033·2	45	N	3	ch	1032·5	-	43	-2	ENE	2	E	bc	3	-	46	42	cg	c	bc	0·0
	Blacksod Point	1033·7	44	NNE	3	bc	1031·3	-1	43	-2	NE	4	NE	bc	3	0·3	46	40	eg	cg	bc.bc.	*
	Valencia (Cahirciveen)	1031·7	44	NNE	2	c	1026·8	-2	44	+4	NE	6	NE	bc	-	0·2	46	38	os.c.b	b.bc.b	c.o.c.	0·4
	Roche's Point	1030·8	42	N	2	c	1027·1	*	38	+1	NNE	2	-	o	2	0·1	47	42	b	b.bc.c	om.o	*
	Birr Castle ...	1031·2	43	WNW	1	o	1029·0	*	38	+8	NNE	1	-	c	*	1	44	29	oe	om	om.c.	0·2
	Donaghadee ...	1030·9	45	N	3	omp	1030·6	+1	43	+5	ENE	3	E	cm	2	1	45	37	bcmw	cm.omp	ofr.cm	*
	Liverpool (Bidston)	1029·0	40	N	1	o	1028·4	+1	37	-2	NE	1	-	o	1	-	41	34	c.o.	o	bc.o	0·1
	Holyhead ...	1028·9	44	ENE	4	cg	1027·9	0	40	-1	ENE	6	-	o	5	-	45	37	x.b.bc.b	b.bc.b	c.o.b.bc	5·5
	Pembroke (St. Ann's)	1026·5	40	NNE	3	bc	1024·8	+1	38	+1	NNE	4	NE	c	3	-	43	35	bc	bc	b.bc.c	1·6
	Hartland Quay	1025·0	42	NNE	6	o	1021·9	0	39	-2	NNE	6	NE	ogp	4	-	42	38	bc.og.o	o.og	og	*
	Scilly (St. Mary's)	1026·2	43	ENE	5	o	1020·1	-1	41	-2	E	6	E	eg	6	-	45	39	c	c.o	o.cg	0·1
	Falmouth ...	1024·3	40	NE	5	cg	1019·9	-2	37	+2	NE	6	-	o	*	-	42	32	b.bc	c.og	bc.cg.o	3·1
	Jersey (St. Aubin)	1019·2	41	NE	5	og	1018·8	*	32	-9	E	5	-	b	4	4	41	30	TSh.b	b.ogpg	gpspb	0·8
	Portland Bill ...	1022·0	39	NNE	4	bc	1019·1	+2	38	+4	ENE	6	E	cg	4	1	40	34	bc.c	c.bc	cgr	*
	Dungeness ...	1018·2	36	NE	6	cg	1022·3	+5	32	-2	ENE	3	-	c	4	2	38	32	cp.c	cp.gr.	cpg	*
	Dover	*	*	*	*	*																
	Wick	1033·4	44	WNW	2	omg	1034·4	+1	41	-3	WNW	1	-	omg	2	-	45	40	omg	omg	omg	*
	Nairn	1033·8	42	-	0	og	1034·8	*	39	-3	-	0	-	o	1	-	44	38	cg.o	cg	og	0·0
	Aberdeen ...	1033·5	44	NW	3	o	1034·2	+1	42	+2	NNW	1	-	o	2	Trace	45	40	odp.c.o	o	om	0·0
	Leith	1032·2	42	NE	1	o	1032·4	0	41	+4	ESE	1	-	rm.	1	2	44	35	omd.o	f	og.omr	*
	Tynemouth ...	1029·8	40	NE	3	omr	1030·6	+1	40	+3	ENE	3	NE	bcm	3	1	40	34	omr	omr	bcg	*
	Spurn Head ...	1026·6	38	NE	4	bc	1027·0	0	40	0	E	6	-	cg	5	2	41	37	c	c	ohg	2·3
	Yarmouth (Gorleston)	1022·8	37	ENE	7	cg	1024·8	+2	38	+1	ESE	6	-	o	6	2	40	34	omr.bc	cg/p	cg/h	0·7
	Clacton-on-Sea	1021·6	36	N	4	bc	1024·3	+5	36	+2	E	3	-	o	2	2	38	33	cp.bc	cp.bc	bc.ogr	2·7
	Nottingham ...	1026·6	37	NE	3	c	1026·5	*	37	+1	NE	4	NE	T	*	1	40	34	c.o	c.ohz	bc.c.	0·0
	Benson (Oxon.) ...	1023·1	35	NNE	4	T	1023·7	+4	35	+1	ENE	2	-	o	*	1	37	33	o	o	od	*
	Sth Farnborough	1022·3	36	NNE	5	o	1023·8	+4	33	0	NE	2	-	om	*	1	37	32	ost.om	o.bcts.o	om	0·0
	Salisbury Plain						1023·4	+2	33	-1	NNE	5	-	o	*	Trace	36	33			o.op	*
	London (Kew Obsy.)	1022·2	37	N	5	o	1024·0	+4	35	o	ENE	3	-	o	*	1	38	34	om	omb.omo.om	o.bc.ost	2·4
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö	1007·4	41	SW	8	T	1016·3	+5	30	-7	SW	8	-	o	5	-	42	27				
	Christiansund ...	1024·8	43	SW	6	o	1026·6	o	45	+4	SW	6	-	o	5	-	45	34				
	Skudesnaes ..	1023·9	32	ESE	2	c	1032·7	o	34		-	o	-	o	2	-	34	27				
	Færder (X'tania Fjord)	1031·8	28	WSW	1	b	1031·5	+1	25		WNW	2	-	b	1	-	28	25				
	The Scaw (Skagen)	1031·5	30	E	1	b	1033·1	o	25	-7	SW	1	-	b	1	-	34	25				
	Blaavands Huk	1029·5	25	ENE	2	b	1021·9	+3	23	+2	ENE	1	-	o	*	-	28	19				
	Copenhagen ...	1030·6	28	E	4	b	1033·0	+1	30	+2	E	2	-	o	*	-	30	25				
	Bornholm ...	1027·4	34	E	8	o	1031·8	+3	34	+2	ESE	5	-	c	1	-	36	30				
FRANCE, &c.	The Helder ...	1021·9	34	NE	7	bc	1026·2	+1	32	-2	ENE	5	-	o	3	-	36	32				
	C. Gris Nez ...	1018·7	34	ENE	6	c	1022·8	+3	28		E	1	*	b	2	-	39	25				
	La Hève	1016·6	32	ENE	5	o	1020·6	*	23	-7	ENE	4	*	b	5	-	36	23				
	Brest (St. Mathieu)	1021·2	42	NNE	4	o	1014·8	-1	36	+3	NE	5	*	o	2	2	43	34				
	Rochefort (Ile d'Aix)	1013·5	32	NNE	6	o	1013·9	+3	24	+4	ENE	6	*	o	*	-	37	?				
	Biarritz	1013·4	28	ENE	1	o	1007·8	-1	21	-7	E	3	*	b	2	-	32	21				
	Paris	1013·5	27	NNE	3	s	1020·4	+4	14	-11	NE	2	-	b	*	1	28	14				
	Belfort	1014·8	14	E	6	m	1022·3	*	5	-12	E	4	*	m	*	3	25	5				
	Lyons	1013·6	16	-	0	o	1019·1	*	9	-10	NE	1	*	o	*	-	24	6				
	Nice	1008·2	32	E	3	o	1011·9	-1	37	+10	E	5	*	c	4	-	39	27				
	Perpignan ..	1010·6	25	NW	3	b	1012·0	o	25	o	W	1	-	o	*	-	30	?				
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1019·8	43	NE	4	b	1010·4	-4	39	-4	SE	1	-	T	3	12	45	39				
	Madrid														*							
	Lisbon																					
	Azores (Horta) ...	1018·3	*	NNE	5	o	1015·5	+1	59	+4	SE	5	*	o	3	-	63	59				
	Madeira	1017·8	55	NE	3	c	1017·6	-1	50	-7	NE	3	N	bc	3	-	61	50				
	Gibraltar	10132	41	NW	3	c	1012·2	*	37	-3	NW	3	*	b	3	-	49	36				
	Malta	*	*	*	*	*	1014·7	+1	50	+4	SE	2	-	o	1	Trace	54	45				
	Limassol	*	*	*	*	*	1017·4	o	54	+3	-	0	-	bc	-	-	64	51				
	Alexandria ...	1017·1	61	ESE	1	o	1018·0	+1	57	+7	SW	2	-	o	-	-	64	50				
	Cairo (Helwan) ...	1018·3	64	-	0	c	1018·3	+3	55	0	SE	2	-	bc	*	-	72	54				

GALES.
Duration and Extreme Force in British Isles.
HARTLAND POINT.
Squalls force 8 from 18hrs. (28th).

LONDON 29th DEC. ...9h. G.M.T.	Humidity. 15 h. 28th	Humidity. 9 h. 29th	Sunshine for 28th	24 Hours ended 9 h. 29th — Temperature. Max.	Min.	Min. on Grass.	Rainfall.	Weather. Morning.	Afternoon.	Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	86	74	1·9	38	33	31	1·3	0.os.ots	b.bc.	b.c.os.oec
CITY (Bunhill Row)	*	*		*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	-	-	0·6	38	35	30	1·2	b.so	o	sto
CAMDEN SQ. (British Rainfall) ..	89	83	1·2	38	34	29	1·5	ot.o	o	*
S. KENSINGTON (Museum Grounds)	*	76	0·8	37	34	-	1·3	ots.o	o	od.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 28th

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
140	5·0	15

The thermometers at Greenwich and Camden Square are in Glaisher screens.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

' Information for these columns not usually received. + Received too late for insertion in Charts. ‡ The barometric change is expressed in half millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20492 ....Sunday, 30th. December, ..1918. 7h. G.M.T.

NOTES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

The afternoon temperature exceeded 40° in most parts of the British Isles, and touched 47° at Castlebay. There was very little frost in the night. Light showers were experienced, mainly over England. Jersey registered 6·7 hours of bright sunshine, and Bournemouth four hours, but generally there was little or none.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 29th DECEMBER.....

	STATIONS.	Rainfall Night. 18h-9h.	Rainfall Day. 9h-18h.	Temperature. Max.	Temperature. Min.	Weather. Forenoon.	Weather. Afternoon.	Sunshine for 29th.
		Mm.	Mm.	°F.	°F.			Hr.
Scotland, E.	Banff	-	-	44	39	o.c.	o	0·0
	Montrose	-	-	43	39	o	o	0·0
	St. Andrews							
Eng. N.E.	Harrogate	-	1·6	37	32	or	or	0·0
	Skegness							
England, E.	Felixstowe	1·5	-	39	35	og	og	0·0
	Southend-on-Sea	1·5	-	37	33	o	o	0·0
England, S.E.	Margate	0·5	-	39	33	o	o	0·0
	Hastings	-	1·0	36	32	os. bc	o	0·9
	Eastbourne	1·0	-	39	32	og	o.bc.o	0·0
	Seaford	*	*					
	Worthing	0·3	-	36	32	bc	bc	1·1
	Littlehampton							
	Bournemouth	0·2	-	36	33	c.bc.	bc	4·0
Scotland W.	Oban	-	-	43	31	x	x	3·2
Eng. N.W.	Morecambe	-	-	40	34	* o.c.o	* o.c.o.c.	0·0
	Southport							
Midlands.	Malvern	-	-	38	34	o	omd	0·0
	Ross-on-Wye							
Wales.	Rhyl							
	Colwyn Bay							
	Llandudno	*	*					
	Aberystwyth	*	*	40	35	o.oc.	c.co	0·5
England, S.W.	Weymouth	*	*					
	Torquay							
	Paignton	*	*	39	35	o	bc.o	1·2
	Penzance	-	-	39	34	o.c.	bc	1·7
	Newquay							
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 29th DECEMBER.....

	STATIONS.	Evening of 28th: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 29th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
			°F.					‡	°F.	°F					°F	°F
Russia 7 a.m. and 9 p.m. Local Time.	Archangel														*	
	Hangö	1029·9	25	NNW	1	b	1027·4	-3	10		SSW	3	o	-	*	10
	Yuriev															
	Petrograd	1027·2	27	S	1	o	1028·2	o	25	-2	SW	3	o	2	27	23
	Vijni Volotchok	1030·4	19	S	2	s	1030·0	o	18	o	SW	1	b	7	-	18
	Gorki	1030·2	23	SE	1	o	1028·4	*	23		-	o	o	-	*	19
	Moscow	1036·6	19	S	3	o	1035·2	-4	18	+13	SSE	2	o	-	*	16
	Kiev														*	
	Kharkov														*	
	Kishinev														*	
	Elisabetgrad														*	
	Nicolaiev							*							*	
	Odessa														*	
	Tarkhankout							*							*	
	Soukhoum														*	
Mediterranean.	Venice	1013·4	34	NNE	1	c	1016·5	*	36	+6	ENE	2	bc	1	37	30
	Turin	1013·1	32	-	o	o	1019·1	*	32	+4	-	o	o	-	34	28
	Pesaro	1013·1	36	W	1	o	1016·5	*	36	+2	NW	1	c	-	37	32
	Leghorn						1012·7	*	39		E	3	o	-	41	36
	Rome	1009·5	36	E	3	c	1013·4	*	41	+5	ESE	3	o	10	41	36
	Viesti	1011·9	45	NW	3	o	1018·3	*	45	+4	SE	1	b	-	48	41
	Brindisi	1010·3	51	SE	1	b	1014·7	*			SW	1		-	54	45
	Cagliari	1005·4	43	NW	4	b	1009·5	*	30	-9	NNE	4	T	S	46	30
	Palermo	1008·5	41	SW	2	b		*	36	-7	W	1	c	-	48	32
	Tripoli	1015·4	48	SE	1	b	1013·7	*	52	-4	E	1	b	-	55	41
	Algiers															
Sweden.	Hernösand	1023·8	27	-	o	o		*						*	*	*
	Stockholm	1030·6	16	-	o	b		*						*	*	*
	Wisby	1030·6	27	SW	8	b		*						*	*	*

Iceland.	Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0–12.	Weather.
		°F	°F			
Isafjord	1018·6	21	-15	-	o	S
Reykjavik	1015·5	37	-4	SSW	3	T
Vestmanna	1020·8	43	o	W	S	o
Seydisfjord	1019·6	32	-13	-	o	S
Thorshavn	1025·5	45	+2	W	3	o

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

30th and 31st DEC 1918.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8·6 / 8·6	11·56 / 11·56	3·46 / 3·46
Greenwich	8·8 / 8·8	12·3 / 12·3	3·58 / 3·58
Wick	9·5 / 9·5	12·15 / 12·15	3·24 / 3·24
Valencia	8·51 / 8·51	12·44 / 12·44	4·37 / 4·37

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‡ The barometric change is expressed in half-millibars.

THE MORNING OF SUNDAY, 30TH DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST 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. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines.

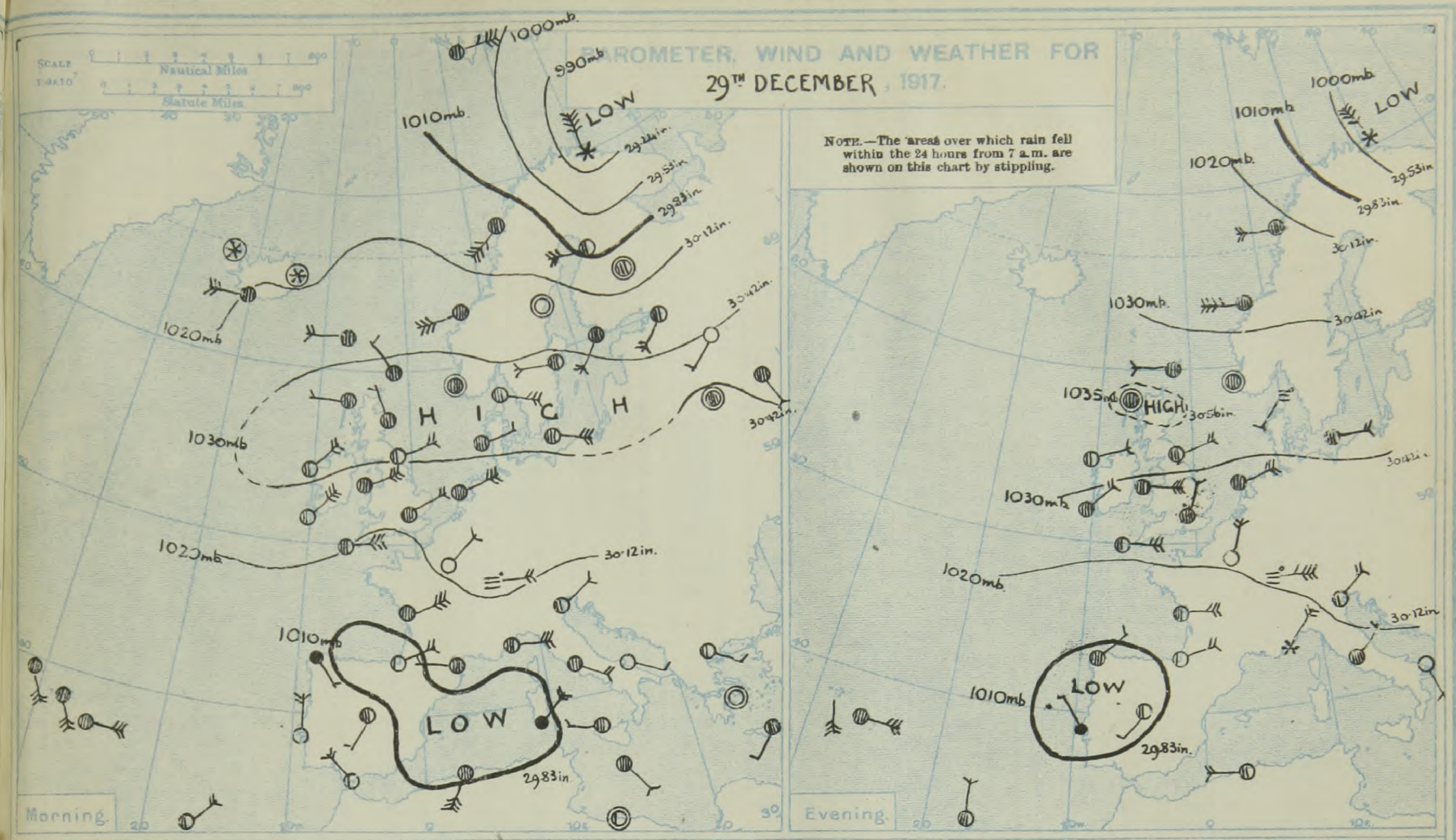
WEATHER.—Shown by the following symbols :—
◯ clear sky. ◐ sky ½ clouded. ◍ sky ½ clouded.
◍ sky ¾ clouded. ● overcast sky. ● rain falling.
✳ snow. ▲ hail. ≡ fog. ≡° mist. ⊤, thunder.
K, thunderstorm.

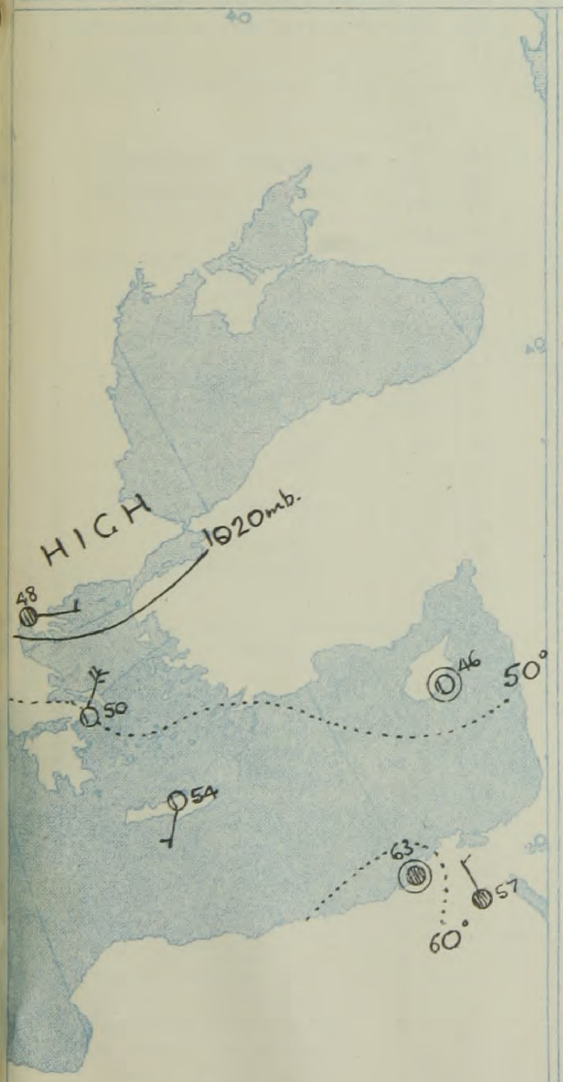
SEA DISTURBANCE.— Rough ~~ High ≈≈

SCALE 1 : 2 x 10⁷
Nautical Miles 0 1 2 3 4 500
Statute Miles 0 1 2 3 4 500

Normal Temperature of the Sea.
Below 40° | 40°-50° | 50°-60° | Above 60°
Scale of Tints for DECEMBER.

1005 mb
1010 mb
1015 mb
1020 mb
1025 mb
1030 mb
1035 mb
29·68 in.
29·83 in.
29·97 in.
30·12 in.
30·27 in.
30·42 in.
30·56 in.
32°
40°
20°
LOW
HIGH
Barometer
steady
slowly
falling





The Present Situation

There has been very little modification in the pressure distribution over the area under observation. The anticyclone still embraces North-Western Europe and the Iceland region, its central space, with the barometer above 1035 mb., covering the North of Scotland. The system extends apparently across the Continent to the Black Sea and Asia Minor. It is flanked on its northern limit by a depression over the Arctic Sea eastward of Lapland, and to the southward by another depression in the Spanish Peninsula region. As a general rule the Easterly and the Westerly winds of the various systems are light to moderate in force, but a few localities report a fresh or strong breeze, and Holyhead a gale. Cloudy to overcast skies prevail extensively, with a little rain or snow here and there, even in southern countries. There is a good deal of fog on the eastern side of the North Sea, and on the Portuguese coast. Temperature varies considerably, from 10° at Lyons and 14° at Belfort to 55° at Brindisi, 57° at Cairo, and 63° at Alexandria.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 364. Sunday. 30th December.

	STATIONS.	EVENING OF 29th: Barom. Millibars at M.S.L.	Temp. °F.	Wind. Direc.	Wind. Force 0-12.	Weather.	MORNING OF 30th: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours. ‡	Temp. Dry Bulb. °F.	Temp. Change in 24 hours. °F.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 HOURS ENDED 7 A.M. 30th: Rainfall. Millimetres.	Temp. Max. °F.	Temp. Min. °F.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 29th. Hours.
BRITISH ISLANDS.	Lerwick ...	1033.2	44	W	2	om	1033.7	0	41	-3	-	0	-	bc	0	0.3	44	39	cm	om	om.bc	*
	Deerness (Orkney)	1034.9	42	W	2	0	1035.2	*	41	-2	NW	1	-	0	1	-	44	41	c	c.o	0	0.0
	Stornoway ..	1035.3	43	-	0	0	1034.8	0	41	-1	-	0	-	0	0	-	43	41	0	0	0	0.0
	Castlebay (Barra Isd.)	1033.9	42	E	2	b	1033.8	0	41		-	0	-	0	1	-	47	41	0.c.b	b	b.0	2.2
	Glasgow ...	1034.1	38	ENE	2	c	1033.5	-1	38	-2	E	2	-	og	*	0.1	40	36	c.odpm	0.c	cm.odp	0.0
	Eskdalemuir ...	1034.0	35	NE	2	c	1032.3	0	37	+1	NE	4	-	0	*	-	38	34	bc.b.bc	bc.b.bc.c	c.bv.c.o	3.1
	Malin Head ...	1032.5	43	E	4	c	1032.0	?	40	-3	E	3	E	b	2	-	44	38	bc	bc	bc	0.0
	Blacksod Point	1031.2	39	ENE	2	bcq	1031.0	-3	36	-7	NE	2	-	bq	3	-	44	35	c	bc	bc.bz	*
	Valencia (Cahirciveen)	1028.4	40	NE	3	0	1026.9	-3	42	-2	NNE	5	-	c	0	-	44	39	bc	c.0	0.c	1.8
	Roche's Point	1028.1	40	NE	2	0	1025.8	*	40	+2	NE	2	-	r	2	2	41	38	om	om	or	*
	Birr Castle ...	1029.7	40	NE	1	0	1027.7	*	40	+2	NE	3	-	0	*	-	40	35	c.o	0	0	0.3
	Donaghadee ...	1031.4	41	E	4	om	1030.8	+1	39	-4	E	4	E	bcq	3	-	43	38	om.bc	bc	om.bq	*
	Liverpool (Bidston)	1029.8	37	NE	2	0	1027.5	-1	38	+1	NE	3	E	0	3	-	40	36	0	0	0	0.0
	Holyhead ...	1028.6	40	E	6	og	1026.0	-3	40	0	ENE	8	E	cq	6	-	41	39	ors.p.c	0.c.bc	0.c.o.c	0.0
	Pembroke (St. Ann's)	1027.0	39	ENE	2	bc	1023.5	0	39	+1	ENE	3	NE	c	2	5	40	38	c	c.bc	c.bc.or	0.0
	Hartland Quay	1025.9	35	NE	3	b	1022.0	-2	39	0	ENE	4	E	0	4	4	40	35	cq	c	b.qr.o	*
	Scilly (St. Mary's)	1024.0	37	E	5	bc	1020.4	-2	39	-2	E	4	E	0	5	2	42	33	cq	c	bc.omv	0.1
	Falmouth ...	1024.5	32	ENE	2	b	1020.9	-2	37	0	NE	4	-	0	*	1	38	27	dq.oq	oq.bc.b	bcx.od	0.3
	Jersey (St. Aubin)	1021.7	36	NE	5	bc	1018.6	*	38	+6	ENE	4	-	0	3	-	40	32	b	bc	0	6.7
	Portland Bill ...	1024.2	35	ENE	5	0	1020.7	-2	37	-1	ENE	6	-	0	5	1	38	34	c.bc	bc.c	c.0	*
	Dungeness ...	1022.8	38	NE	4	bcq	1021.1	0	39	+7	ENE	5	E	cq	4	1	39	32	cq	c.bc	cqp.c	*
	Dover	*	*	*	*	*													*	*		
	Wick	1035.7	40	W	1	ogm	1035.3	0	39	-2	-	0	-	0	1	-	44	37	ogm	ogm	ogm	*
	Nairn	1035.5	39	-	0	om	1035.1	*	38	-1	-	0	-	og	1	-	41	38	og	ogm	om	0.0
	Aberdeen ...	1035.4	41	N	1	0	1034.9	0	42	0	ENE	2	-	0	2	-	43	40	0	om	0	0.0
	Leith	1033.7	39	E	1	c	1033.7	-1	40	-1	NE	2	-	0	2	1	42	39	rm.o.c	cu.bc.c	c.odg	*
	Tynemouth ...	1031.9	41	ENE	3	cm	1031.6	-1	40	0	ENE	3	-	om	3	1	41	34	cm	cm	opm	*
	Spurn Head ...	1029.3	39	E	4	od	1028.0	-1	39	-1	ENE	5	-	oq	5	2	40	36	od	od	oq	0.0
	Yarmouth (Gorleston)	1026.1	39	E	6	0	1025.2	0	36	-2	E	5	-	odm	5	1	39	36	0	0	opqm	0.0
	Clacton-on-Sea	1025.1	38	NE	3	0	1023.8	0	38	+2	ENE	4	-	0	3	3	38	36	og	ogm	ogr.og	0.0
	Nottingham ...	1028.7	39	NE	3	0	1027.0	*	38	+1	NE	5	-	0	*	4	39	36	or	r.0	or	0.0
	Benson (Oxon.) ...	1025.6	35	NNE	1	0	1023.0	+1	35	0	NNE	3	-	0	*	3	36	33	0	0	od. 0	*
	Stn Farnborough	1025.6	35	NNE	2	om	1022.8	0	37	+4	ENE	3	-	odm	*	3	37	32	c.bm.ou	og.om	od.rs.rm	1.5
	Salisbury Plain	1026.9	44	NE	5	c	1023.8	0	35	+2	NE	4	-	0	*	2	35	32			oqp	*
	London (Kew Obsy.)	1025.7	37	NNE	2	om	1023.0	+1	37	+2	NNE	4	-	om	*	3	37	34	o.om	om	om.or.om	0.0
NORTHERN EUROPE.	Spitsbergen ...												*		*	*						
	Vardö	998.0	21	NW	8	s	1000.8	+1	18	-5	NW	7	-	s	4	*	23	18				
	Bodö	1021.1	27	W	4	0	1021.2	+3	23	-7	E	5	-	0	2	?	28	18				
	Christiansund ...	1029.0	45	W	7	.0	1031.0	0	43	-2	WSW	6	-	0	5	1	45	41				
	Skudesnaes ..	1033.4	37	-	0	0	1030.8	-1	36	+2	NW	5	-	f	2	-	37	34				
	Færder (X'ianiaFjord)	1033.1	30	NNE	1	m	1031.9	-1	28	+3	-	0	-	f	0	-	30	25				
	The Scaw (Skagen)	1033.5	23	SW	2	m	1032.8	0	25	0	SW	2	-	f	2	-	32	21				
	Blaavands Huk	1033.9	30	E	1	0	1032.2	0	30	+7	ESE	1	-	0	*	-	30	23				
	Copenhagen ...	1034.2	32	E	2	c	1033.1	0	30	0	ESE	2	-	0	*	-	34	28				
	Bornholm ...	1033.2	34	E	3	c	1032.7	+1	32	-2	NNE	2	-	0	1	-	34	30				
FRANCE, &c.	The Helder ...	1027.9	32	ENE	5	0	1027.2	0	30	-2	E	4	-	0	3	Trace	36	30				
	C. Gris Nez ...	1023.0	34	E	4	0	1021.2	-1	32	+4	E	4	*	0	4	-	36	28				
	La Hêve	1021.1	32	ENE	4	bc	1019.2	*	34	+11	ENE	4	*	0	3	-	36	23				
	Brest (St. Mathieu)	1020.4	34	ENE	5	bc	1017.8	-2	36	+1	E	4	*	bc	2	-	36	30				
	Rochefort (Ile d'Aix)	1014.7	27	E	5	c	1014.6	-1	21	-3	E	5	*	bc	*	-	37	19				
	Biarritz	1010.2	27	ENE	3	b	1010.0	0	21	0	E	3	*	b	2	-	32	21				
	Paris	1020.4	23	NNE	2	0	1018.2	+1	25	+11	NE	1	-	0	*	-	28	14				
	Belfort	1020.6	12	E	7	m	1021.0	*	14	+9	E	6	*	f	*	?	15	5				
	Lyons	1018.7	14	NNW	1	b	1019.9	*	10	+1	-	0	*	0	*	-	19	8				
	Nice	1018.5	34	NE	4	s	1015.4	+1	36	-1	E	5	*	c	7	b	43	27				
	Perpignan ..														*							
	Sanguinaire ...							*					*									
SOUTHERN STATIONS.	Corunna	1007.1	41	NE	1	0	1022.6	-2	34	-5	-	0	NE	c	3	4	43	32				
	Madrid	1009.4	32	SW	1	bc	1011.9	-1	25	+2	NE	1	-	s	*	Trace	34	23				
	Lisbon	1009.5	45	NW	2	r	1005.4	-1	43	+7	ENE	2	-	c	5	8	48	?				
	Azores (Horta) ...	1014.6	*	-	0	0	1013.9	0	55	-4	E	6	*	0	4	2	59	55				
	Madeira	1015.9	59	N	2	c	1014.3	-2	54	+4	NE	2	-	r	2	?	61	50				
	Gibraltar							*					*									
	Malta	*	*	*	*	*	1009.9	+1	50	0	W	2	-	bc	1	25	57	50				
	Limassol	*	*	*	*	*	1017.4	0	46	-8	-	0	-	b	4	-	64	45				
	Alexandria ...	1017.3	64	NW	2	0	1017.2	-1	63	+6	-	0	W	0	0	-	70	57				
	Cairo (Helwan) ...	1017.2	63	-	0	bc	1016.7	-1	57	+2	N	1	-	0	*	-	73	54				

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging.
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON 31st December, 9h. G.M.T.	Humidity. 15 h. 29th. %	Humidity. 9 h. 30th. %	Sunshine for 29th. Hours.	24 Hours ended 9 h. 30th Dec. Temperature. Max. °F.	Temperature. Min. °F	Temperature. Min. on Grass. °F.	Rainfall. mm.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
GREENWICH (Royal Observatory)	82	99	0.0	37	33	32	2	c.o	0	o.r.s
CITY (Bunhill Row)	*	*	0.0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	81	96	0.0	38	35	32	4	or.o	or.o	oe
CAMDEN SQ. (British Rainfall) ..	80	100	0.0	37	33	31	5	0	0	*
S. KENSINGTON (Museum Grounds)	*	96	0.0	37	34	-	6	o.c.o	0	od.o

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 29th.

Total.	Average Rate.	Max. Rate.
Joules. 80	Milliwatts. 2.7	Milliwatts. 8.5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.

METEOROLOGICAL OFFICE, LONDON: DAILY WEATHER REPORT.

No. 20,493. MONDAY, 31ST DECEMBER 1917. 7h. G.M.T.

...ES OF THE WEATHER OF THE PAST 24 HOURS, BASED ON THE TELEGRAMS OF YESTERDAY EVENING AND THIS MORNING (p. 4).

Temperature remained below 40° over a large portion of the British Isles, only touching 35° at some southern stations. Intense frost has continued in the central and Eastern parts of France.

Slight rain fell in various parts of this country, and at nearly all stations the day was sunless. At Oban, however, the record was 4·7 hrs.

BRITISH WEATHER RECORD, TEMPERATURE, SUNSHINE AND RAINFALL To 18h. 30TH DECEMBER.

	STATIONS.	Rainfall Night 18h-9h.	Rainfall Day 9h-18h.	Temperature Max.	Temperature Min.	Weather Forenoon.	Weather Afternoon.	Sunshine for 30TH
		Mm.	Mm.	°F.	°F.			Hr.
Scotland E.	Banff	—	—	44	41	o.c.	o.	0·0
	Montrose	3	Trace	43	38	o.	o.	0·0
	St. Andrews							
England N.E.	Harrogate	Trace	—	37	35	o.	o.	0·0
	Skegness	—	—	38	37	o	o	0·0
England S.E.	Felixstowe	1	Trace	37	33	omd	om	0·0
	Southend-on-Sea							
	Margate							
	Hastings	2	—	38	33	o10.	o	0·0
	Eastbourne	1	Trace	39	34	o9	o8.	0·0
	Seaford	*	*					
	Worthing	2	—	39	33	o	o	0·0
	Littlehampton							
	Bournemouth	2	Trace	39	31	o	o	0·0
Scotland W.	Oban	—	—	40	29			4·7
England N.W.	Morecambe					*	*	
	Southport	—	—	41	37	c.o8.	c.o.c.o	1·2
Midlands	Malvern							
	Ross-on-Wye	7	Trace	38	36	dr	omd	0·0
Wales	Rhyl	—	—	39	36	o	9	0·0
	Colwyn Bay	—	—	39	38	c.	bc.	0·0
	Llandudno	*	*	40	38	o.	c.	0·0
	Aberystwyth	*	*	40	35	o.c.	c.o	0·2
England S.W.	Weymouth	*	*					
	Torquay	4	—	40	34	o	o	0·0
	Paignton	*	*					
	Penzance							
	Newquay	3	—	39	29	c.	c.	0·3
	Ilfracombe							

WEATHER TELEGRAMS FROM FOREIGN STATIONS OF 30TH DECEMBER.

STATIONS.	Evening of 29TH: Barom. Millibars at M.S.L.	Temp.	Wind Direc.	Wind Force 0–12.	Weather.	Morning of 30TH: Barometer Millibars at M.S.L.	Barometer Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.	Rainfall. Millimetres.	Temp. Max.	Temp. Min.
		°F.					‡	°F.	°F					°F	°F
Archangel														*	
Hangö														*	
Yuriev															
Petrograd															
Vijni Volotchok															
Gorki							*							*	
Moscow														*	
Kiev														*	
Kharkov														*	
Kishinev														*	
Elisabetgrad														*	
Nicolaiev							*							*	
Odessa														*	
Tarkhankout							*							*	
Soukhoum														*	
Venice	1021·4	27	NE	3	c.	1018·2	*	37	+1	ENE	1	b	2	43	?
Turin	1019·5	32	-	0	s	1019·3	*	32	0	—	0	s	14	34	30
Pesaro	1021·0	36	-	0	0	1017·0	*	36	0	S	1	s	—	39	34
Leghorn	1014·5	43	NE	3	0	1014·6	*	43	+4	—	0	0	—	45	39
Rome	1015·0	45	NE	1	0	1015·0	*	41	0	N	1	c	6	48	39
Viesti	1019·1	50	SE	4	bc.	1015·7	*	46	+1	SE	1	0	—	50	46
Brindisi	1018·6	55	SE	1	b.	1015·8	*	55		NE	3	b	—	57	54
Bari						1014·7	*	41		W	1	b	—	50	41
Palermo						1014·5	*	43		-	0	c.	18	54	39
Tripoli						1019·9	*	41	−11	W	1	0	—	68	41
Algiers	1013·3	36	W	3	bc.	1014·1	+1	39	+3	WSW	3	b.	2	45	?
Hernösand						1029·6	*	28		WSW	2	o	*	*	*
Stockholm						1022·7	*	43		—	0	b	*	*	*
Visby						1031·6	*	34		WNW	2	f	*	*	*

ICELAND.	Morning of 30TH: Barom. Millibars at M.S.L.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind Direc.	Wind Force 0–12.	Weather.
		°F	°F			
Isafjord	1023·0	25	+4	N	4	S
Reykjavik	1020·3	41	+4	SSE	3	o
Vestmanna	1024·4	41	−2	SE	4	o
Seydisfjord	1030·2	25	+7	-	o	c.
Thorshayn	1028·9	42	−3	WSW	2	m

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

31ST DEC. AND 1ST JAN. 1917.	Sunrise. G.M.T.	Noon. G.M.T.	Sunset. G.M.T.
Yarmouth	8.6	11.56	3.46
	8.6	11.57	3.48
Greenwich	8.8	12.3	3.58
	8.8	12.4	4.0
Wick	9.5	12.15	3.25
	9.5	12.16	3.27
Valencia	8.51	12.44	4.37
	8.51	12.45	4.38

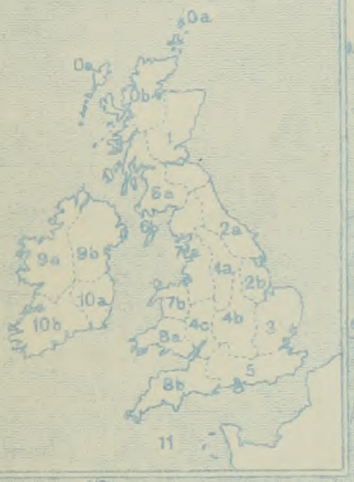
Printed at the Meteorological Office, South Kensington, London, S.W.7.
By WYMAN & SONS, Ltd., Fetter Lane, London, E.C.4, and Reading.

‡ The barometric change is expressed in half-millibars

THE MORNING OF MONDAY, 31ST DECEMBER, 1917.

TEMPERATURE, WEATHER AND SEA DISTURBANCE.

FORECAST DISTRICTS.



EXPLANATION.

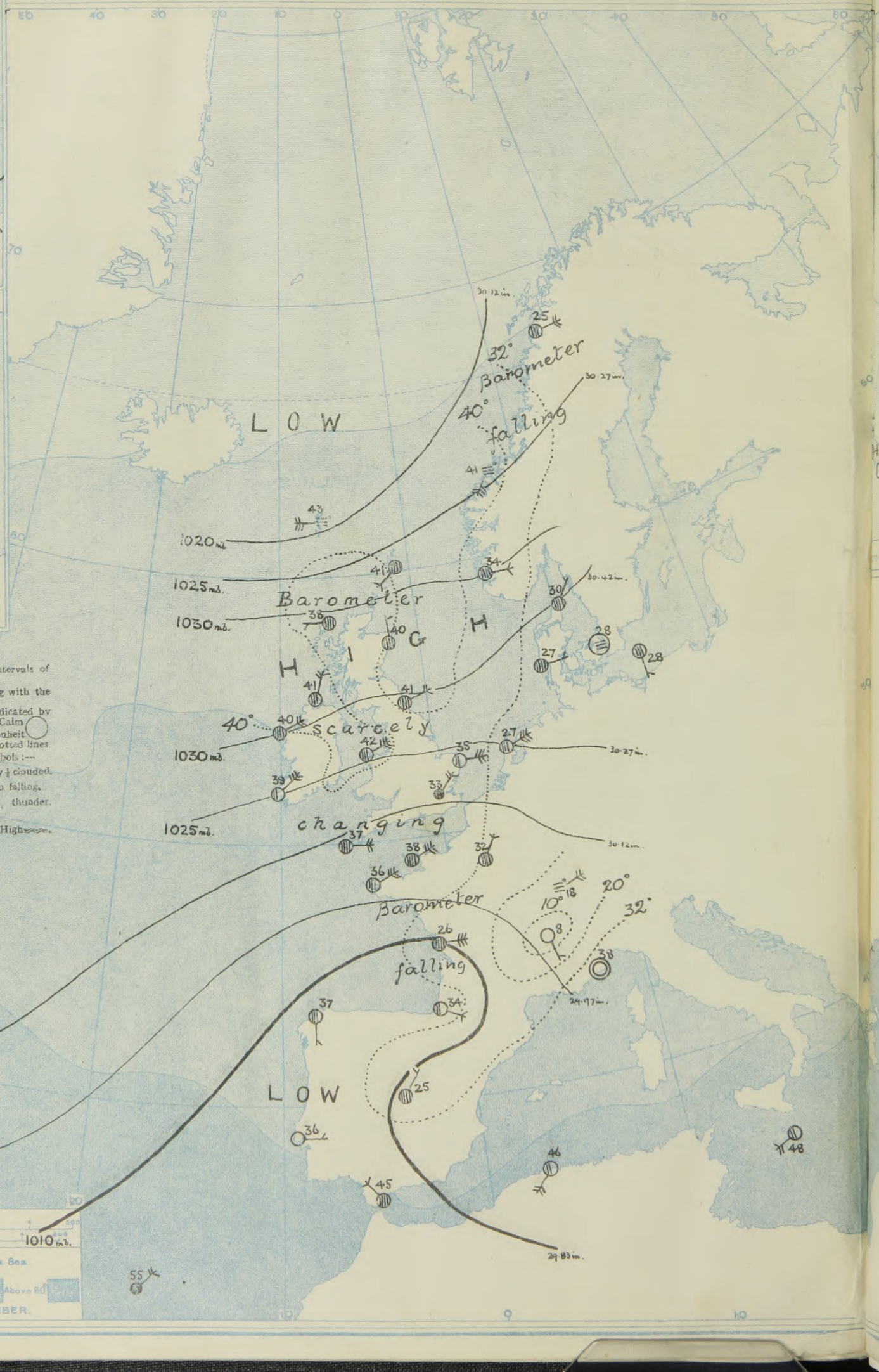
BAROMETER.—Isobars are drawn for intervals of five millibars.

WIND.—Direction is shown by arrows flying with the wind.
Force, on the scale 0–12, is indicated by the number of feathers. Calm ◯

TEMPERATURE.—Given in degrees Fahrenheit. Isotherms shown by dotted lines

WEATHER.—Shown by the following symbols:—
◯ clear sky, ◔ sky ¼ clouded, ◑ sky ½ clouded, ◕ sky ¾ clouded, ● overcast sky, ● rain falling,
✳ snow, ▲ hail, ≡ fog, ≡° mist, ϒ thunder, ϒ, thunderstorm.

SEA DISTURBANCE.—Rough ~~~. High ~~~.

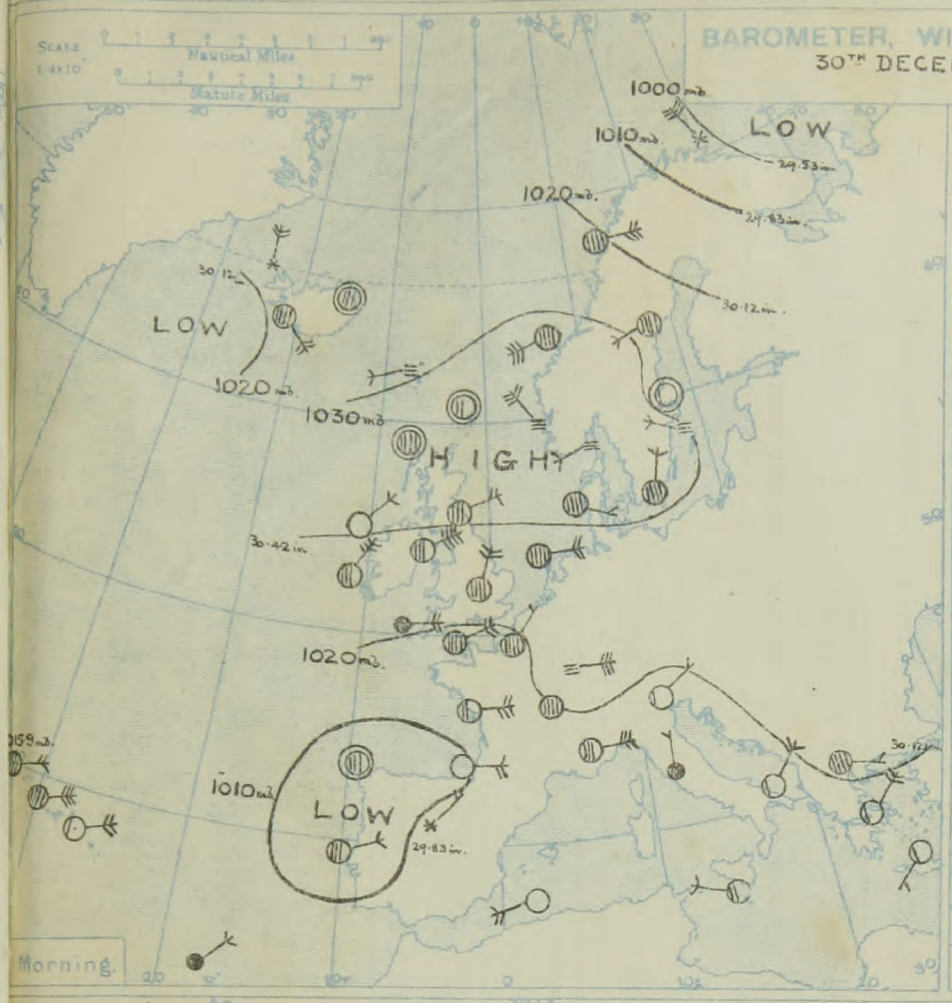


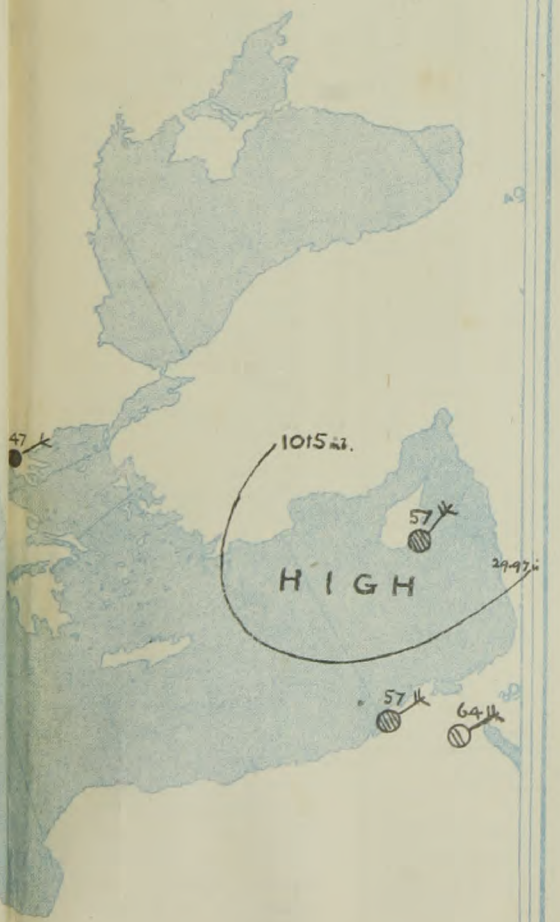
SCALE 1:2×10⁶
Nautical Miles
Statute Miles

Normal Temperature of the Sea

Below 40° | 40°-50° | 50°-60° | Above 60°

Scale of Tints for DECEMBER.





The Present Situation.

A band of high pressure stretches from the Atlantic across Scotland to the south of Norway or beyond, while there is (apparently) a large depression between Iceland and Northern Norway, and another large depression of moderate intensity is shown over the Bay of Biscay, the Spanish Peninsula and the Madeira region. The barometer is falling decidedly in the far north, but generally the changes in progress are slight.

The General Outlook.

There are no definite indications of any great change in the present distribution over the British Isles and their immediate neighbourhood, but in the absence of the reports from Iceland very little is known of the intensity of the depression in that region.

R. G. K. LEMPFERT, Superintendent, Forecast Division. NAPIER SHAW, Director.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, 1917. No. 365. Monday, 31st December.

	STATIONS.	Evening of 30th: Barom. Millibars at M.S.L.	Temp.	Wind. Direc.	Wind. Force 0-12.	Weather.	Morning of 31st: Barometer. Millibars at M.S.L.	Barometer. Change in 3 hours.	Temp. Dry Bulb.	Temp. Change in 24 hours.	Wind. Direc.	Wind. Force 0-12.	Direc. of Upper Cloud.	Weather.	Sea 0-9.	24 hours ended 7 a.m. 31st: Rainfall. Millimetres.	Temp. Max.	Temp. Min.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Sunshine for 30th.
			°F.					‡	°F.	°F.							°F.	°F.				Hours.
British Islands.	Lerwick ...	1032·9	40	WNW	1	cm	1028·7	−1	41	+1	SW	2	−	o	2	1	42	36	bc.om	om.bcm	c.om	*
	Deerness (Orkney)	1033·2	41	E	1	o	1030·5	*	39	−2	W	1	−	o	0	−	43	39	o	o	o	0·0
	Stornoway ...	1032·7	34	−	o	b	1032·0	o	38	−3	W	1	−	o3	0	−	42	32	o.c	c.b	o3	0·9
	Castlebay (Barra Isd.)	1032·3	43	N	2	c	1032·0	o	40	−1	−	o	−	o	1	−	46	38	o	o.c	cq	0·0
	Glasgow ...	1031·7	39	NE	2	o	1030·5	−1	39	+1	NE	2	−	o	*	trace	39	37	odpg.o	o	o	0·0
	Eskdalemuir ...	1031·0	36	NE	4	oe	1029·5	o	37	o	NNE	4	−	o	*	0·2	38	36	o odm.o	o.od.oe	oe.od.o	0·2
	Malin Head ...	1030·8	42	ENE	4	bc	1030·5	?	41	+1	NNE	3	E	c	4	−	45	39	bc	bc	c	0·0
	Blacksod Point	1030·1	39	ESE	3	cg	1029·3	−2	40	+4	ENE	4	−	om	3	−	40	36	c3	c3	cg.om	*
	Valencia (Cahirciveen)	1026·0	42	NE	4	c	1025·1	o	39	−3	NE	5	E	bc	3	−	43	38	c.	c.o	c	0·4
	Roche's Point	1025·9	41	NE	3	o	1024·8	*	40	o	NE	3	E	c	3	1	41	38	r	r.o	o.c	*
	Birr Castle ...	1027·5	41	NE	1	o	1027·0	*	37	−3	N	2	−	o	*	−	43	35	o.c	c.o	o.c.o	0·8
	Donaghadee ...	1029·5	41	E	3	bc3	1028·4	−1	41	+2	E	4	−	cg	3	−	42	38	bc3	bc3	bc3.bc	*
	Liverpool (Bidston)	1027·2	37	NE	2	c	1025·2	−2	40	+2	NE	3	E	o	3	−	40	36	o	o	c.o	0·0
	Holyhead ...	1026·6	39	ENE	5	bm	1025·0	−1	42	+2	ENE	5	−	cg	4	−	42	38	o.cm	c.o.bc.b	c.b.bc.o	0·4
	Pembroke (St. Ann's)	1024·1	39	NE	3	o	1023·5	o	32	−7	NE	2	S	bc	2	−	40	32	c.o	o	o.c.bc.b	0·0
	Hartland Quay	1022·5	40	NE	4	om													oq	oq.odm		*
	Scilly (St. Mary's)	1021·2	41	E	4	o	1019·6	−1	37	−2	E	4	E	o	5	1	42	36	om.c	o	o	0·7
	Falmouth	1020·7	38	NNE	3	o3	1019·3	−1	36	−1	ENE	4	. −	o	*	trace	40	35	o.c.od.o	ogz	o.oq	0·1
	Jersey (St. Aubin)	1017·5	40	ENE	4	og	1016·3	*	38	o	ENE	5	−	og	4	−	40	37	og	og	og	0·0
	Portland Bill ...	1020·3	39	ENE	6	oq	1019·6	o	35	−2	ENE	6	−	oq	5	−	40	33	o	o	o	*
	Dungeness ...	1019·5	37	ENE	6	r	1019·6	o	35	−4	ENE	5	−	o	5	0·4	39	35	c.o	o r	c.or.oq	*
	Dover	*	*	*	*	*													*	*		
	Wick	1033·1	43	SE	1	og	1031·3	o	38	−1	W	1	−	o	1	−	43	38	ogm	og	og	*
	Nairn	1033·0	39	−	o	og	1032·3	*	35	−3	−	o	−	og	1	−	40	34	og	og	ogm	0·0
	Aberdeen ...	1032·9	43	NE	2	o	1031·6	−1	40	−2	N	1	−	o	2	0·1	43	40	od	o.c.o	o	0·0
	Leith	1031·8	40	E	1	c	1030·2	o	41	+1	E	2	−	o	2	1	42	39	od.oe	ce.d.o.c	ceg.c.o	*
	Tynemouth ...	1030·2	41	ENE	3	odm	1027·9	−1	41	+1	ENE	3	−	o	4	2	41	39	omr	omd	om	*
	Spurn Head ...	1027·2	38	NE	5	oqv	1025·5	o	39	o	E	5	−	c	5	−	40	35	oqv	oqv	o.cq	0·0
	Yarmouth (Gorleston)	1023·6	36	E	6	om	1022·5	−1	35	−1	E	5	−	bc	6	−	37	33	odm	odm	om.c	0·0
	Clacton-on-Sea	1022·5	34	ENE	4	o	1020·7	o	36	−2	ENE	4	−	o	3	−	38	34	odgm	odgm	og	0·0
	Nottingham ...	1026·5	36	NE	4	o	1024·6	*	37	−1	NE	4	NE	o	*	1	38	35	r.o	o	o	0·0
	Benson (Oxon.) ...	1023·4	34	NE	4	o	1021·7	+1	33	−2	NE	3	−	o	*	0·2	35	32	om	om	o	*
	Sth Farnborough	1022·9	33	NE	4	o	1021·8	−1	32	−5	NE	4	−	odm	*	1	37	31	odgm	odgm.o	odm	0·0
	Salisbury Plain						1022·5	o	33	−2	NE	4	−	o	*	−	35	32			oq	*
	London (Kew Obsy.)	1022·8	34	NE	4	odm	1021·6	−1	33	−4	NE	3	−	odm	*	0·2	38	32	ome	odg	o.odm	0·0
Northern Europe.	Spitsbergen ...												*		*	*						
	Vardö															*						
	Bodö	1030·3	25	E	2	c	1020·8	−8	25	+2	E	4	−	c	2	?	25	19				
	Christiansund ...	1031·5	39	WSW	2	m	1024·6	−5	41	−2	SSW	5	−	m	5	6	43	37				
	Skudesnaes ..	1030·4	30	−	o	b	1030·0	o	34	−2	E	2	−	o	2	−	36	30				
	Færder (X'tania Fjord)	1032·4	27	NE	2	f	1030·2	−2	27	−1	ENE	1	−	b	1	−	28	27				
	The Scaw (Skagen)	1031·9	28	S	1	m	1029·5	−1	30	+5	NE	1	−	o	1	−	34	23				
	Blaavands Huk	1030·2	25	E	1	b	1029·8	+1	27	+7	E	1	−	o	*	−	30	19				
	Copenhagen ...	1031·1	30	NNE	3	o	1029·9	o	28	−2	−	o	−	f	*	−	30	25				
	Bornholm ...	1029·9	30	N	3	c	1029·9	+1	28	−4	S	1	−	c	o	−	32	27				
France, &c.	The Helder ...	1025·2	30	NE	6	o	1024·2	+1	27	−5	ENE	6	−	c	3	−	30	27				
	C. Gris Nez ...	1019·8	33	E	3	f	1020·2	−1	32	o	ENE	4	*	o	4	−	36	30				
	La Hève	1017·4	33	E	3	m	1019·8	*	33	−1	ENE	3	*	m	2	−	36	30				
	Brest (St. Mathieu)	1016·7	37	ENE	4	c	1015·1	−1	36	o	ENE	5	*	c	2	−	37	34				
	Rochefort (Ile d'Aix)	1013·0	29	E	5	o	1009·4	−2	26	+5	E	6	*	o	*	−	34	21				
	Biarritz	1008·8	32	E	2	b	1006·0	−2	34	+13	ESE	2	*	bc	1	−	39	21				
	Paris	1017·4	32	NE	2	o	1017·1	−1	32	+7	NE	2	−	o	*	−	34	23				
	Belfort	1019·5	22	E	4	f	1019·8	*	18	+4	ENE	4	*	m	*	−	23	14				
	Lyons	1018·4	17	−	o	b	1019·1	*	8	−2	−	o	*	b	*	−	22	7				
	Nice	1016·0	39	−	o	bc	1015·9	o	38	+2	−	o	*	b		−	48	32				
	Perpignan ..														*							
	Sanguinaire ...							*					*									
Southern Stations.	Corunna	1009·2	46	NE	4	bc	1008·4	o	37	+3	S	1	−	c	3	2	46	34				
	Madrid	1007·0	28	−	o	c	1010·2	+1	25	o	−	o	−	o	*	3	28	18				
	Lisbon																					
	Azores (Horta) ...	1016·6	*	E	6	b	1017·2	−1	54	−1	E	7	*	b	4	−	59	54				
	Madeira	1010·3	54	E	2	r	1005·5	−3	55	+1	NE	3	. E	r	3	4	59	52				
	Gibraltar	1007·8	46	NW	2	o	1007·1	*	45	-	NW	2	*	o	3	89	50	43				
	Malta	*	*	*	*	*																
	Limassol	*	*	*	*	*	1017·1	o	57	+11	ENE	3	-	o	3	−	64	46				
	Alexandria ...	1015·1	68	ENE	1	c	1013·4	−2	57	−6	E	3	-	o	2	−	72	55				
	Cairo (Helwan) ...	1014·7	64	NE	2	o	1013·6	+1	64	+7	E	3	-	bc	*	Trace	75	54				

GALES.

BEAUFORT NOTATION.

- b blue sky (not more than a quarter of the sky 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, a copious deposit of water on trees, buildings or rigging
- 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. The horizon or distant hills unusually clear.
- w dew.
- x hoar frost.
- y dry air; humidity less than 60 per cent.
- z dust haze; the turbid atmosphere of dry weather.

The Daily Weather Report is sent free by post to any address in the United Kingdom on payment of £1 per annum, for postage and wrappers. Single copies 1d. at Meteorological Office.

LONDON, 31st. December, 9h. G.M.T.	Humidity. 15 h. 30th	Humidity. 9 h. 31st	Sunshine for 30th	24 Hours ended 9 h. 31st: Temperature. Max.	Temperature. Min.	Temperature. Min. on Grass.	Rainfall.	Weather. Morning.	Weather. Afternoon.	Weather. Night.
	%	%	Hours.	°F.	°F.	°F.	mm.			
GREENWICH (Royal Observatory)	99	93	0·0	37	32	32	1	od	od	0.rsp
CITY (Bunhill Row)	-	*	0·0	*	*	*	*	*	*	*
WESTMINSTER (St. James's Park)	99	90	0·0	39	33	33	1	od	od	od
CAMDEN SQ. (British Rainfall) ..	-	96	0·0	37	32	31	1	o	-	*
S. KENSINGTON (Museum Grounds)	*	91	0·0	39	34	-	1	0.od	0.od	0.od

SOUTH KENSINGTON.

Vertical Component of Solar Radiation per square Centimetre during 30th.

Total.	Average Rate.	Max. Rate.
Joules.	Milliwatts.	Milliwatts.
20	0·6	1·5

The thermometers at Greenwich and Camden Square are in Glaisher screens.

* Information for these columns not usually received. † Received too late for insertion in Charts. ‡ The barometric change is expressed in half-millibars.